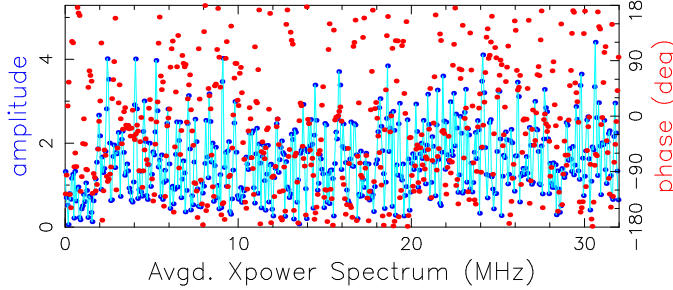
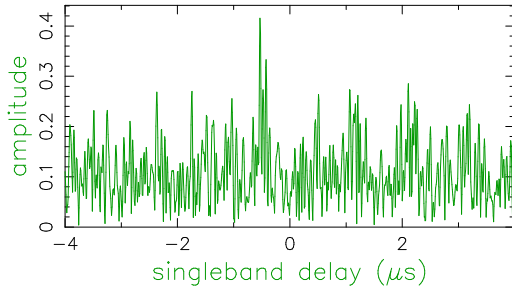


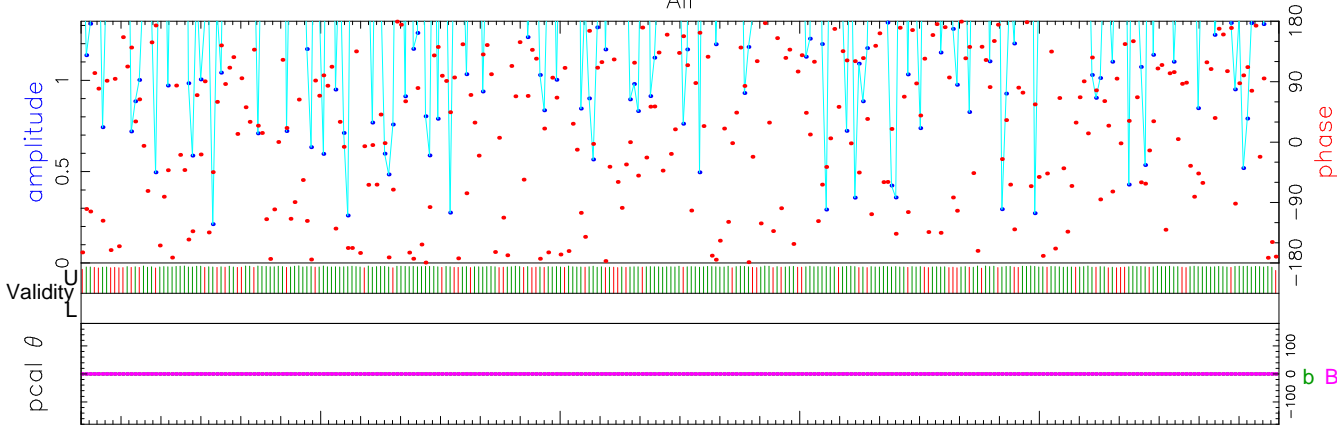
Fringe quality 0

SNR 4.8
Int time 288.325
Amp 0.441
Phase 104.0
PFD 1.0e+00
Delays (us)
SBD -0.530104
MBD -0.000004
Fringe rate (Hz)
-0.363174
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
130.4
0.4
445.1
U/L 586/0
b 1000
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W06UL
B W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

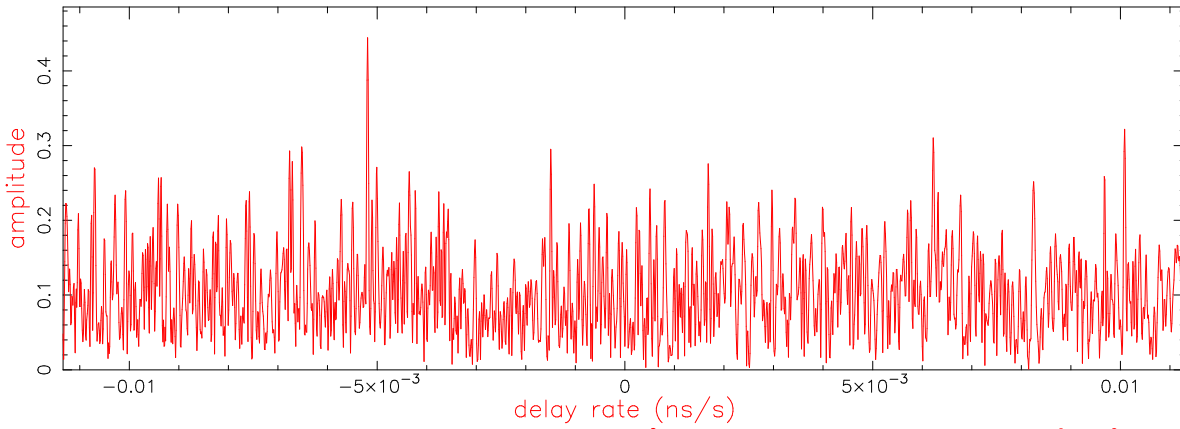
Group delay (usec)(sbd)	-5.32037663488E+03	Apriori delay (usec)	-5.31984652750E+03	Resid mbdelay (usec)	-4.37154E-06	+/-	3.6E-03
Sband delay (usec)	-5.32037663100E+03	Apriori clock (usec)	-3.9345272E+00	Resid sbdelay (usec)	-5.30104E-01	+/-	3.6E-03
Phase delay (usec)	-5.31984652329E+03	Apriori clockrate (us/s)	4.2699999E-07	Resid phdelay (usec)	4.20467E-06	+/-	7.6E-07
Delay rate (us/s)	1.69622211526E+00	Apriori rate (us/s)	1.69622633136E+00	Resid rate (us/s)	-4.21610E-06	+/-	4.4E-09
Total phase (deg)	147.7	Apriori accel (us/s/s)	2.74053238535E-05	Resid phase (deg)	104.0	+/-	23.7

ph/seg (deg)	93.8	Theor.	202.8	Amplitude	0.441 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	419.1	Search (2048X8)	0.412	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.275	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.2	Inc. frq. avg.	0.431	Inc. frq. avg.	0.431	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

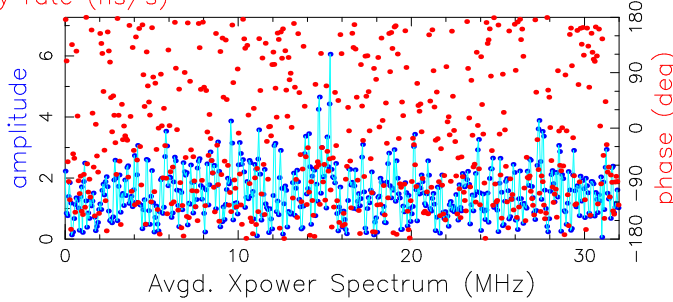
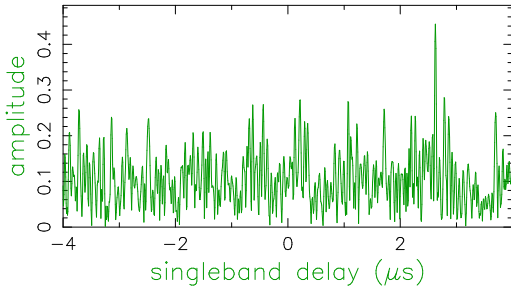
b: az 88.2 el 20.4 pa -44.0 B: az 247.2 el 37.9 pa 37.6 u,v (fr/asec) -10082.326 443.938 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bB.W.1.0QR3WR

Fringe quality 0



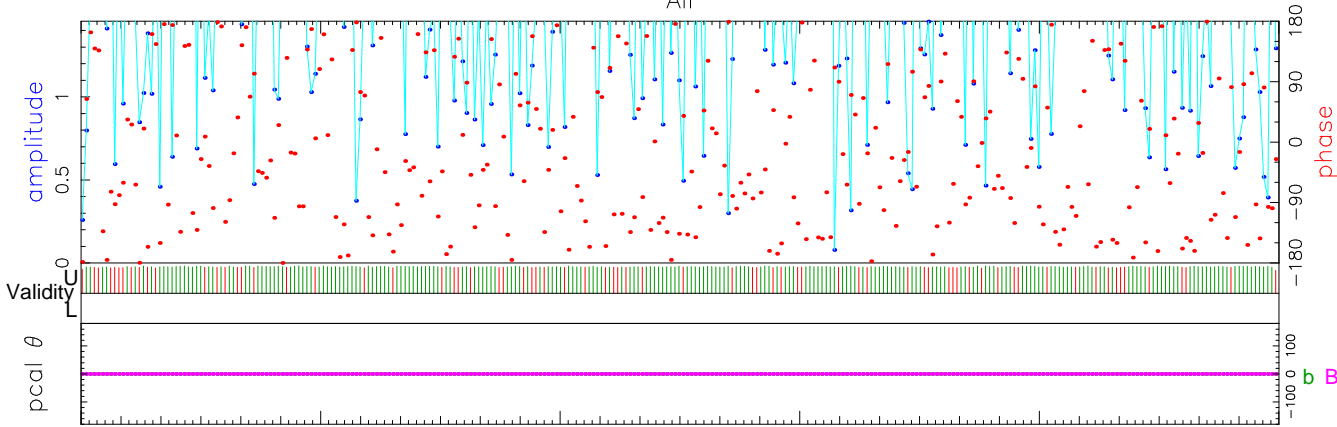
SNR 5.2
Int time 288.325
Amp 0.485
Phase -97.3
PFD 1.0e+00
Delays (us)
SBD 2.624260
MBD -0.000007
Fringe rate (Hz)
-0.446886
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-114.2
0.5
848.9
U/L 586/0
b 1000
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W06UR
B W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

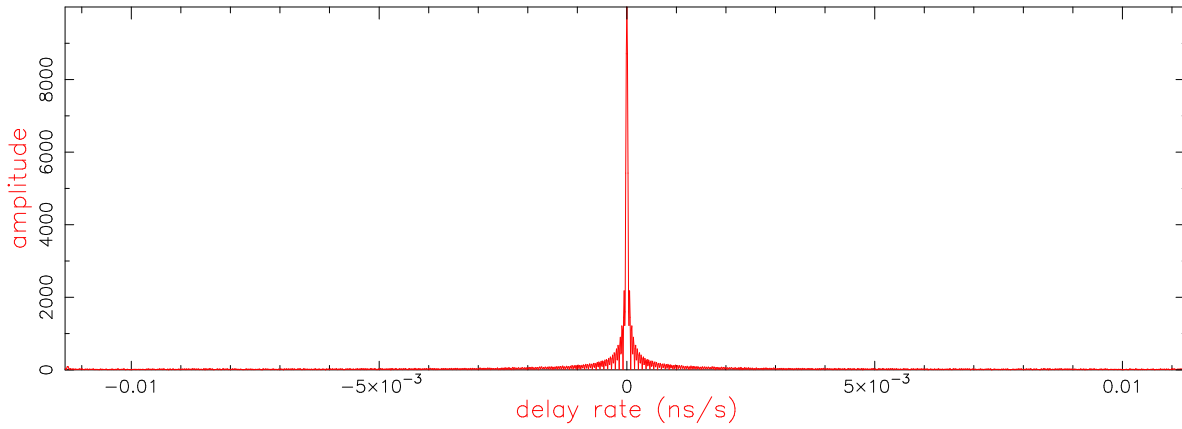
Group delay (usec)(sbd)	-5.3172227090E+03	Apriori delay (usec)	-5.31984652750E+03	Resid mbdelay (usec)	-6.78103E-06	+/- 3.3E-03
Sband delay (usec)	-5.3172226700E+03	Apriori clock (usec)	-3.9345272E+00	Resid sbdelay (usec)	2.62426E+00	+/- 3.3E-03
Phase delay (usec)	-5.31984653118E+03	Apriori clockrate (us/s)	4.2699999E-07	Resid phdelay (usec)	-3.68363E-06	+/- 7.2E-07
Delay rate (us/s)	1.69622114346E+00	Apriori rate (us/s)	1.69622633136E+00	Resid rate (us/s)	-5.18790E-06	+/- 4.1E-09
Total phase (deg)	-53.5	Apriori accel (us/s/s)	2.74053238535E-05	Resid phase (deg)	-97.3	+/- 22.2

ph/seg (deg)	93.2	Theor.	190.0	Amplitude	0.485 +/- 0.094	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	361.5	Search (2048X8)	0.431	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.305	Inc. frq. avg.	0.476	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.1	u,v (fr/asec)	-10082.326	443.938		Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

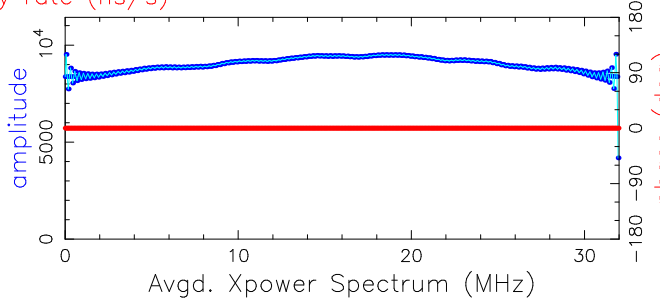
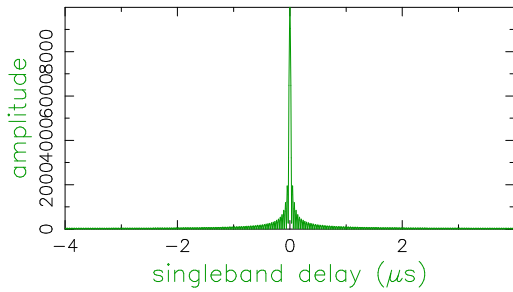
b: az 88.2 el 20.4 pa -44.0 B: az 247.2 el 37.9 pa 37.6 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bB.W.12.0QR3WR

Fringe quality 9

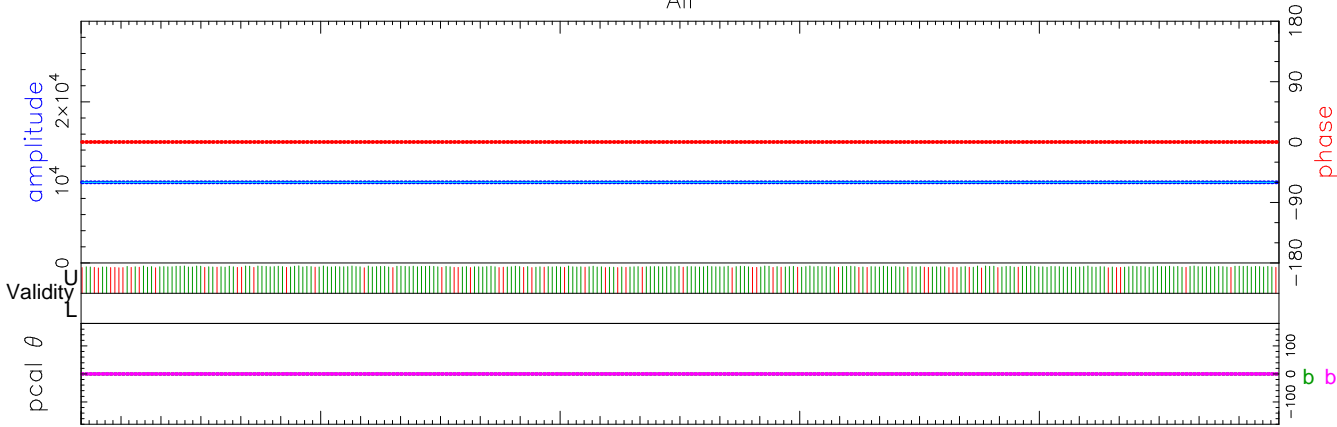


SNR 116219.4
Int time 288.989
Amp 9999.999
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



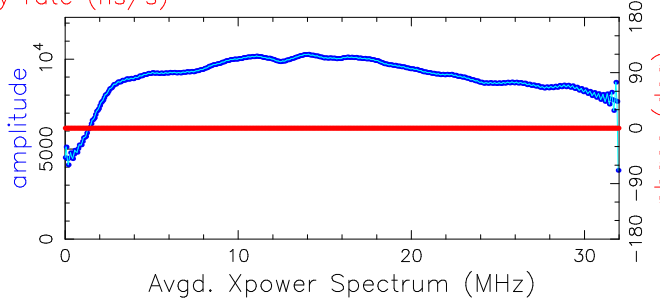
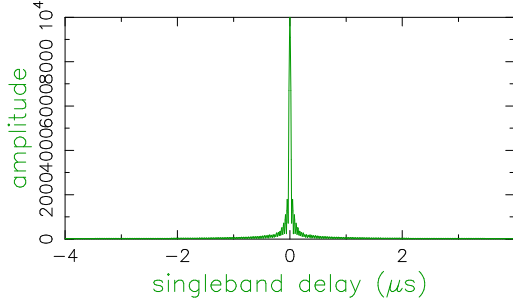
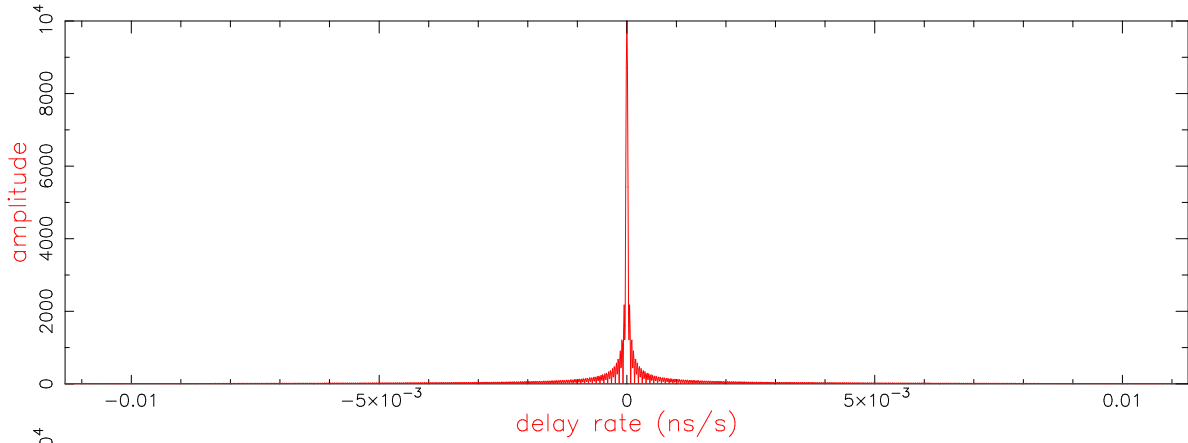
86204.00	Freq (MHz)
0.2	Phase
10000.0	Ampl.
513.0	Sbd box
U/L 586/0	APs used
b 1000	PC freqs
b 1000	PC freqs
b:b 0:0	PC phase
b:b 0:0	Mani PC
b 1000	PC amp
b 1000	
b W06UR	Chan ids
b	
b W06UR	Chan ids

Group delay (usec)(sbd)	4.35297666002E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24741E-06	+/- 1.5E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.73082248719E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.73082E-09	+/- 3.2E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9999.999 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0		0.0	Search (2048X8)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	9999.999	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

b: az 88.2 el 20.4 pa -44.0 b: az 88.2 el 20.4 pa -44.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bb..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bb.W.17.0QR3WR

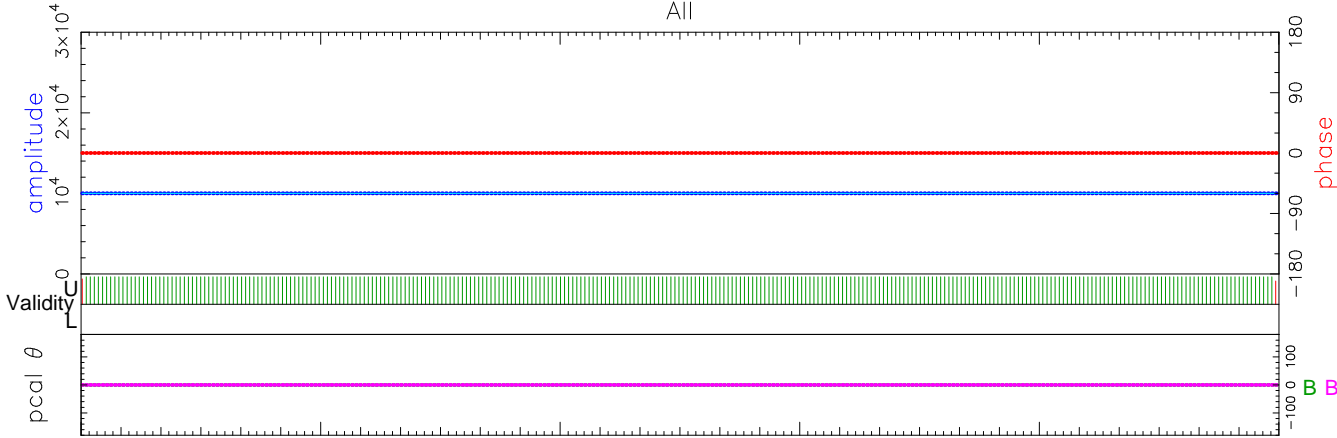


Fringe quality 9

SNR 118372.4
Int time 299.796
Amp 10000.000
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



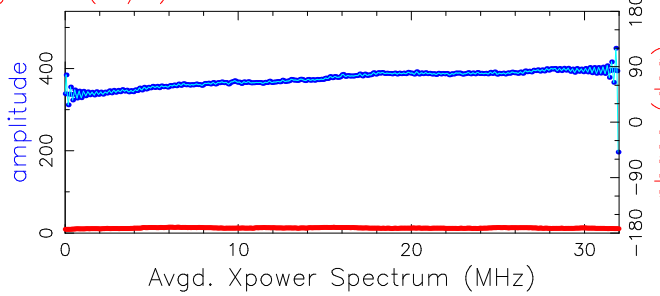
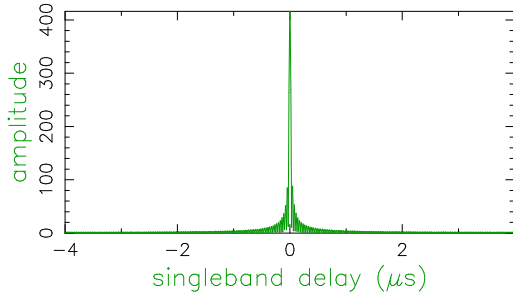
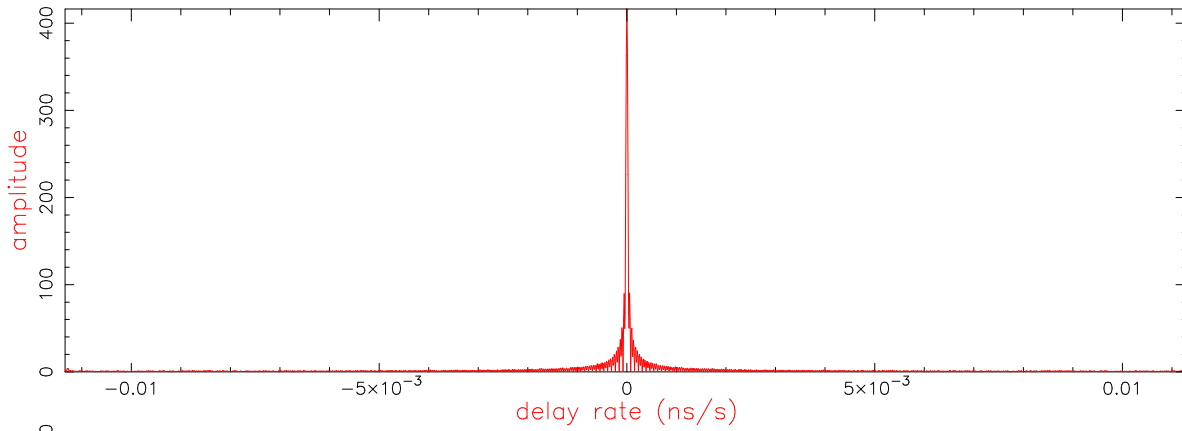
86204.00		Freq (MHz)
0.2		Phase
10000.0		Ampl.
513.0		Sbd box
U/L 586/0		APs used
B 0		PC freqs
B 0		PC freqs
B:B 0:0		PC phase
B:B 0:0		Mani PC
B 1000		PC amp
B 1000		
B W06UR		Chan ids
B W06UR		Chan ids

Group delay (usec)(sbd)	4.61463505174E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.98575E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.48781492580E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.48781E-09	+/- 3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	0.0	Amplitude	10000.000 +/- 0.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0	0.0	Search (2048X8)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	10000.000	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

B: az 247.2 el 37.9 pa 37.6 B: az 247.2 el 37.9 pa 37.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BB.W.24.0QR3WR



Fringe quality 9

SNR 4838.4

Int time 288.984

Amp 416.316

Phase -174.9

PFD 0.0e+00

Delays (us)

SBD 0.000165

MBD -0.000007

Fringe rate (Hz)

-0.000007

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

2019:212:174154

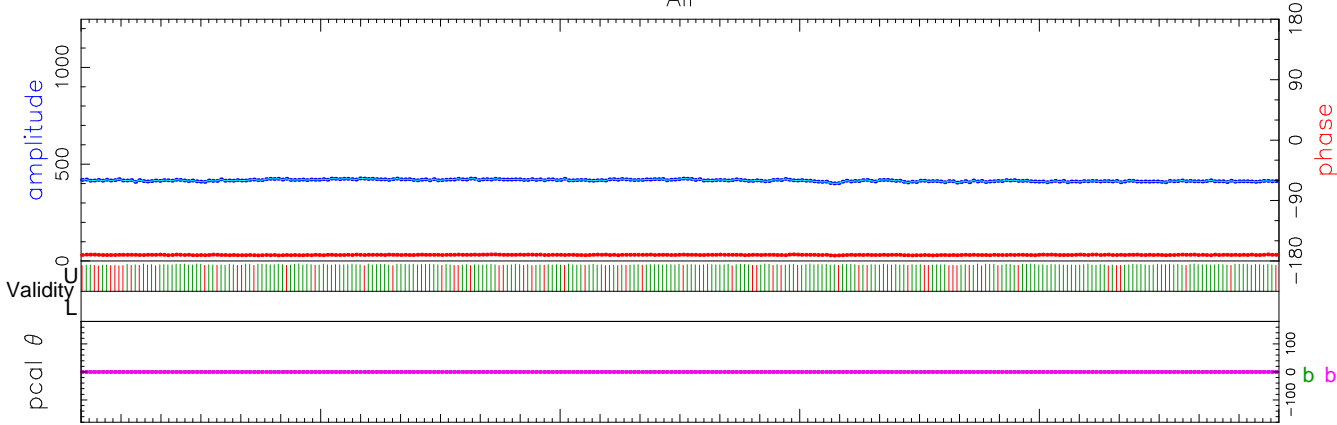
2018:249:082454

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00		Freq (MHz)
-170.9		Phase
416.3		Ampl.
513.0		Sbd box
U/L 586/0		APs used
b 1000		PC freqs
b 1000		PC freqs
b:b 0:0		PC phase
b:b 0:0		Mani PC
b 1000		PC amp
b 1000		
b W06UL		Chan ids
b W06UR		Chan ids

Group delay (usec)(sbd)	1.67119669621E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.88618E-06	+/- 3.6E-06
Sband delay (usec)	1.65500000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.65500E-04	+/- 3.6E-06
Phase delay (usec)	-5.50985423421E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.50985E-06	+/- 7.6E-10
Delay rate (us/s)	-8.29012414914E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-8.29012E-11	+/- 4.4E-12
Total phase (deg)	-174.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-174.9	+/- 0.0

ph/seg (deg)	0.3	0.2	RMS	Theor.	Amplitude	416.316 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	1.2	0.4			Search (2048X8)	416.294	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	0.0			Inc. seg. avg.	416.299	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.0	0.0			Inc. frq. avg.	416.297	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

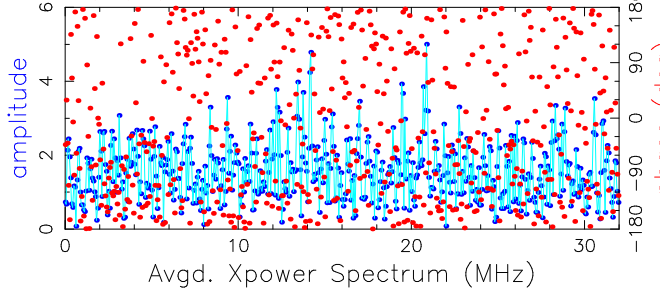
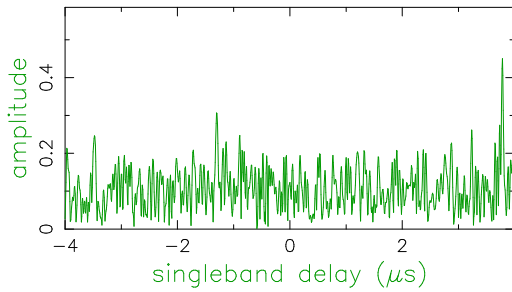
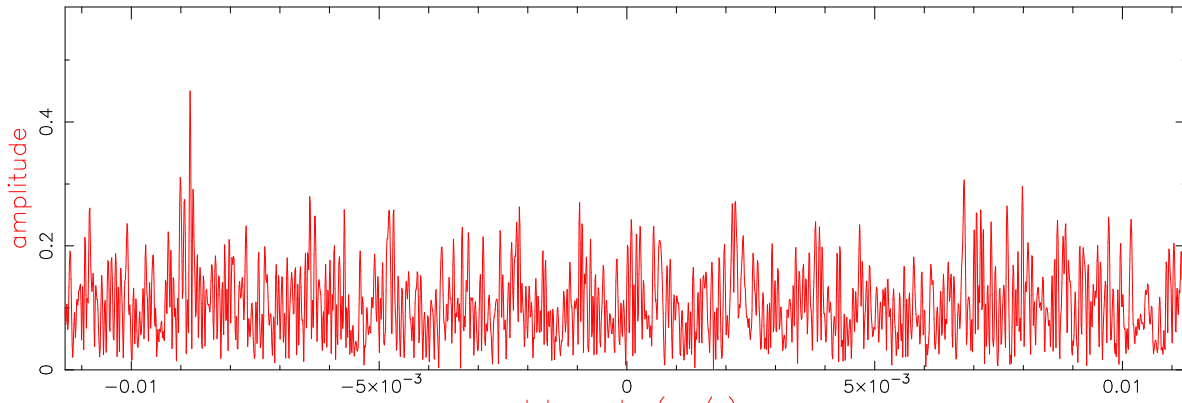
b: az 88.2 el 20.4 pa -44.0 b: az 88.2 el 20.4 pa -44.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bb..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bb.W.30.0QR3WR

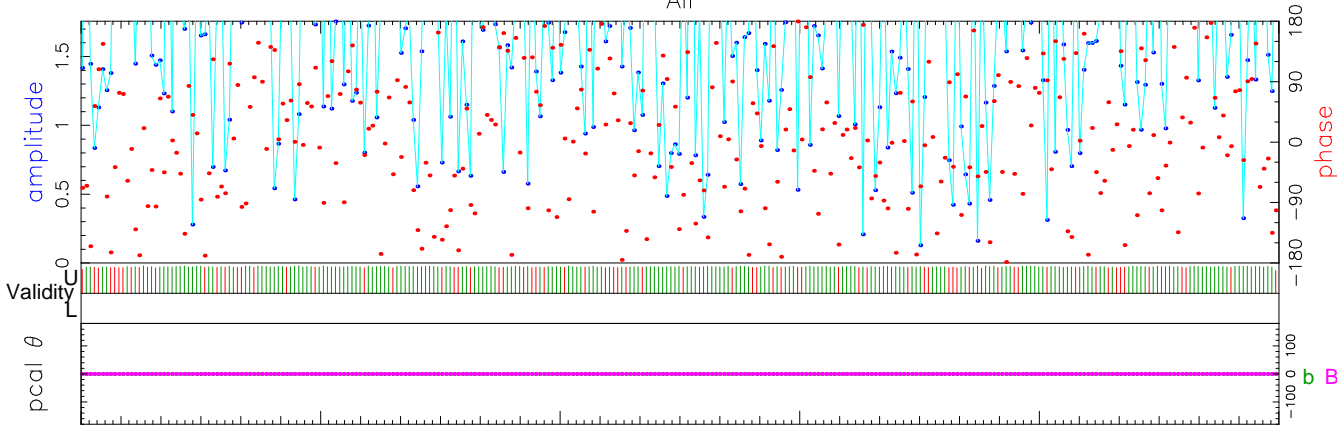
Fringe quality 0

SNR 5.2
Int time 288.325
Amp 0.586
Phase -318.1
PFD 1.0e+00
Delays (us)
SBD 3.780152
MBD -0.000004
Fringe rate (Hz)
-0.758947
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



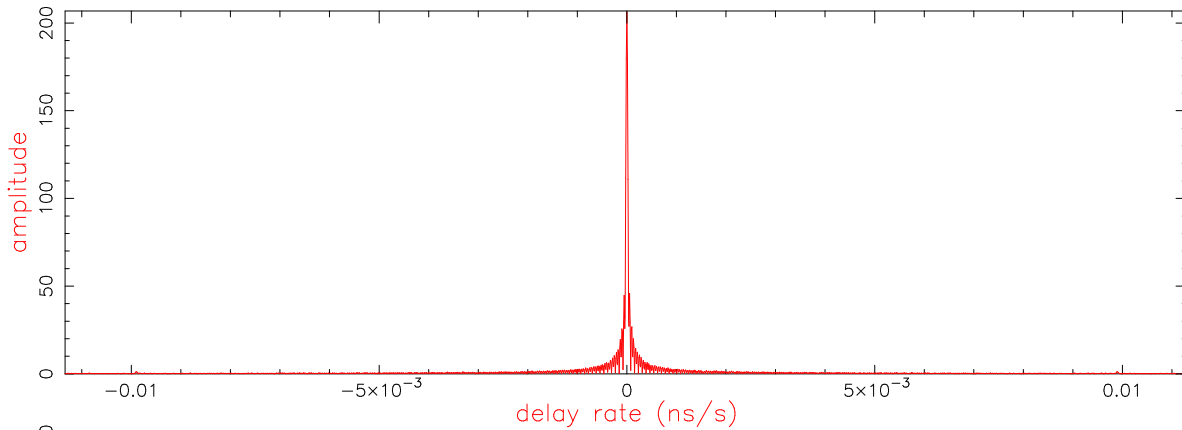
86204.00
16.8
0.6
996.9
U/L 586/0
b 1000
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W06UL
B W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.31606637084E+03	Apriori delay (usec)	-5.31984652750E+03	Resid mbdelay (usec)	-4.36063E-06	+/-	3.3E-03
Sband delay (usec)	-5.31606637600E+03	Apriori clock (usec)	-3.9345272E+00	Resid sbdelay (usec)	3.78015E+00	+/-	3.3E-03
Phase delay (usec)	-5.31984652695E+03	Apriori clockrate (us/s)	4.2699999E-07	Resid phdelay (usec)	5.42469E-07	+/-	7.1E-07
Delay rate (us/s)	1.69621752074E+00	Apriori rate (us/s)	1.69622633136E+00	Resid rate (us/s)	-8.81062E-06	+/-	4.1E-09
Total phase (deg)	-274.4	Apriori accel (us/s/s)	2.74053238535E-05	Resid phase (deg)	-318.1	+/-	21.9

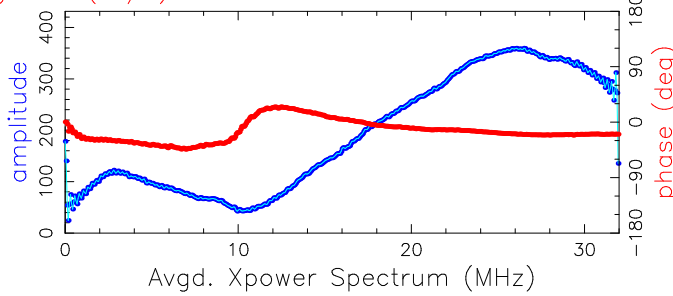
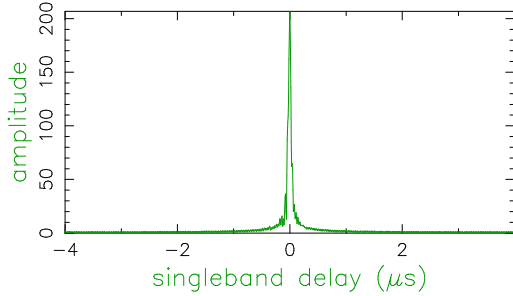
ph/seg (deg)	93.9	Theor.	187.5	Amplitude	0.586 +/- 0.112	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	393.9	Search (2048X8)	0.444	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.396	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.574	Inc. frq. avg.	0.574	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 B: az 247.2 el 37.9 pa 37.6 u,v (fr/asec) -10082.326 443.938 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bB.W.34.0QR3WR



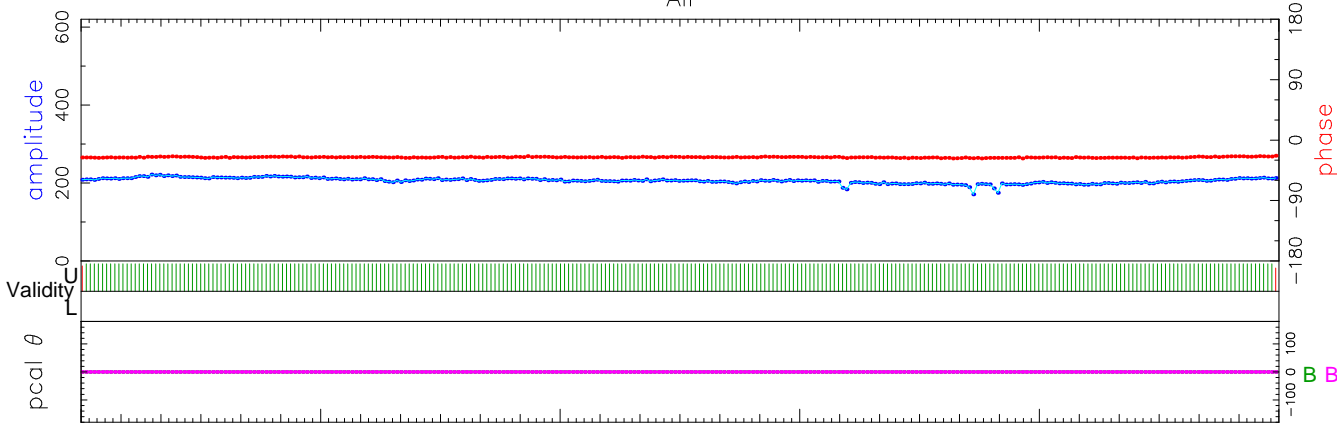
Fringe quality 9

SNR 2448.5
 Int time 299.796
 Amp 206.848
 Phase 7.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.001440
 MBD -0.000007
 Fringe rate (Hz)
 -0.000006
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174155
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



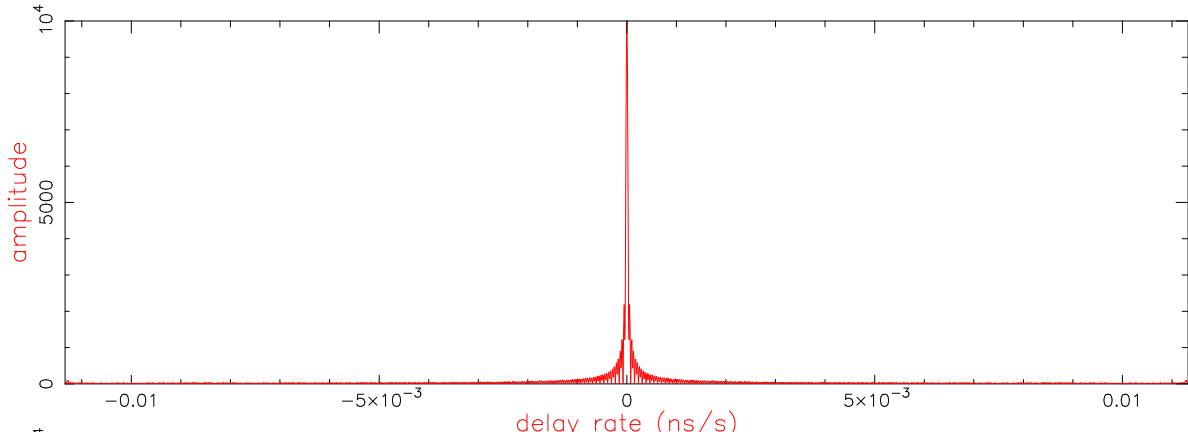
86204.00
 -25.6
 206.3
 512.8
 U/L 586/0
 B 0
 B 0
 B:B 0:0
 B:B 0:0
 B 1000
 B 1000
 B W06UL
 B W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-1.44565746369E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.20913E-06	+/-	7.0E-06
Sband delay (usec)	-1.4400000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.44000E-03	+/-	7.0E-06
Phase delay (usec)	-8.24230301559E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-8.24230E-07	+/-	1.5E-09
Delay rate (us/s)	-6.44787433822E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-6.44787E-11	+/-	8.7E-12
Total phase (deg)	7.6	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	7.6	+/-	0.0

ph/seg (deg)	0.7	Theor.	0.4	Amplitude	206.848 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	3.4		0.7	Search (2048X8)	206.272	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.3		0.0	Inc. seg. avg.	206.283	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	206.274	Data rate(Mb/s):	128	nlags:	512
								t_cohere	infinite

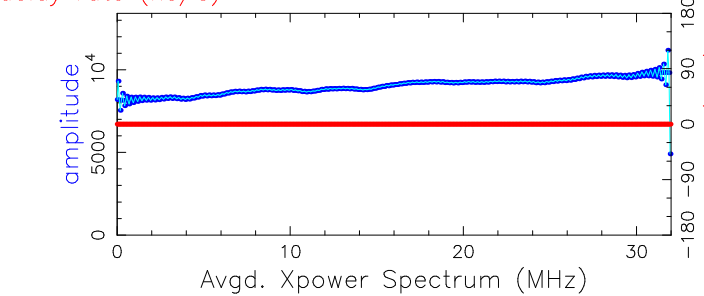
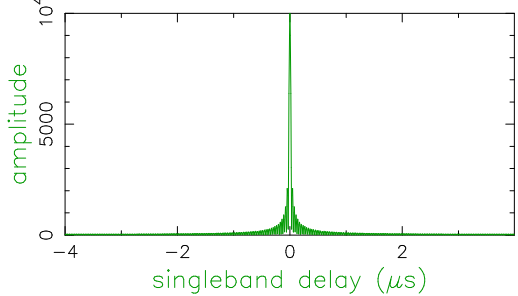
B: az 247.2 el 37.9 pa 37.6 B: az 247.2 el 37.9 pa 37.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BB.W.38.0QR3WR



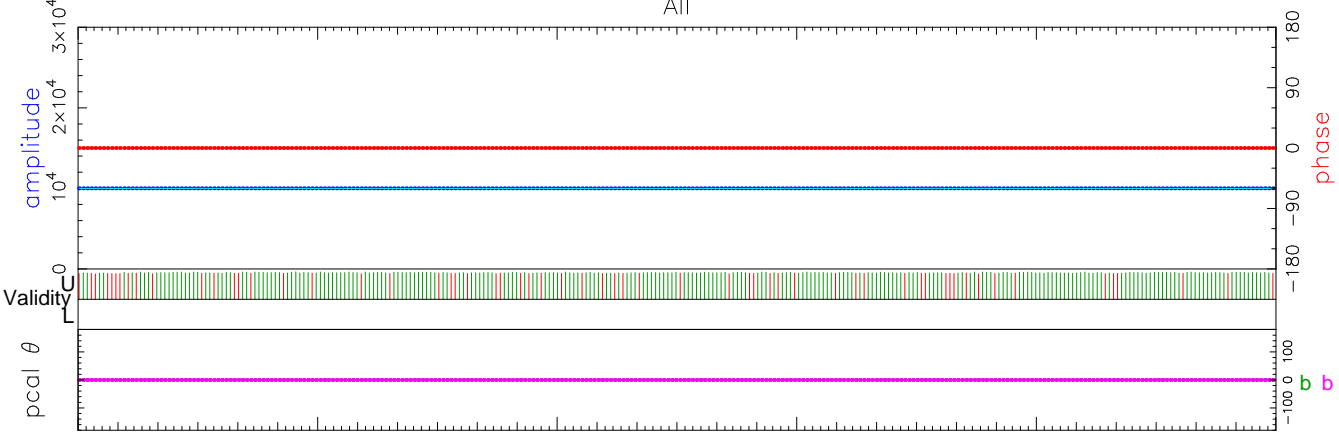
Fringe quality 9

SNR 116218.4
 Int time 288.984
 Amp 10000.002
 Phase -0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000007
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174152
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



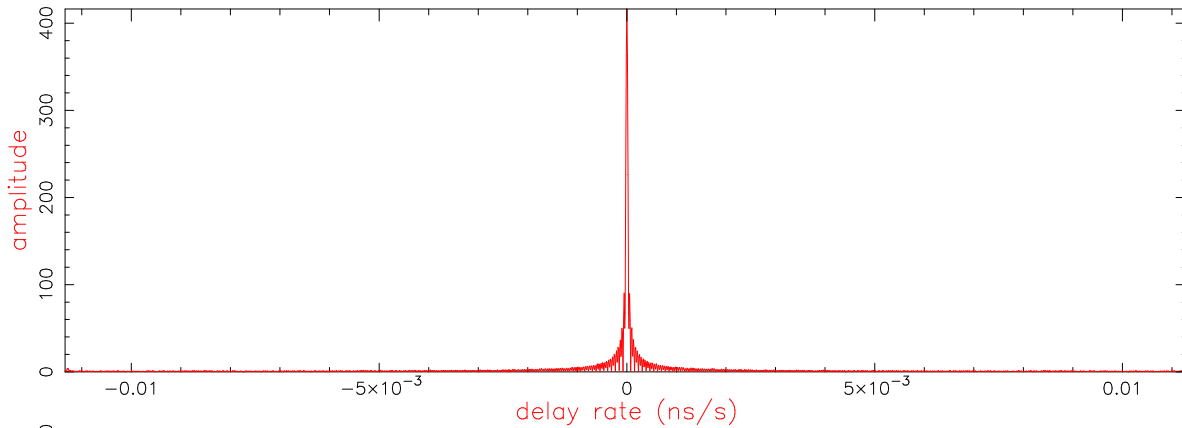
Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00 Freq (MHz)
 0.2 Phase
 10000.0 Ampl.
 513.0 Sbd box
 U/L 586/0 APs used
 b 1000 PC freqs
 b 1000 PC freqs
 b:b 0:0 PC phase
 b:b 0:0 Mani PC
 b 1000 PC amp
 b 1000
 b W06UL Chan ids
 b W06UL Chan ids

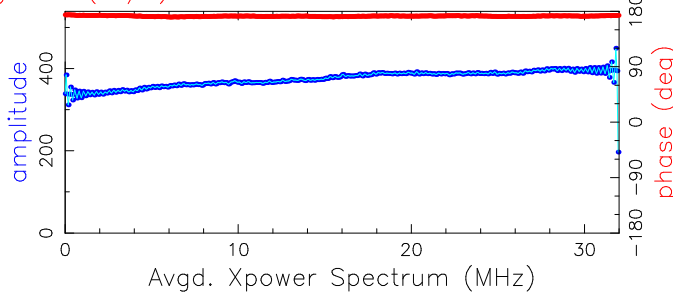
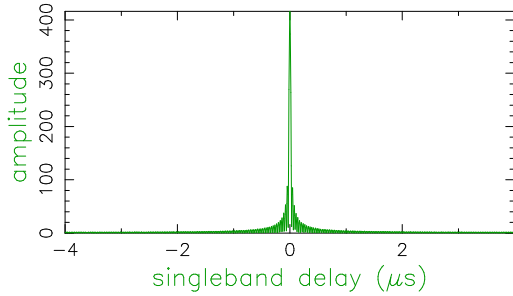
Group delay (usec)(sbd)	4.70790218551E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.89249E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.40119580922E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.40120E-09	+/- 3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.002 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X8) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 10000.003 simultaneous interpolator



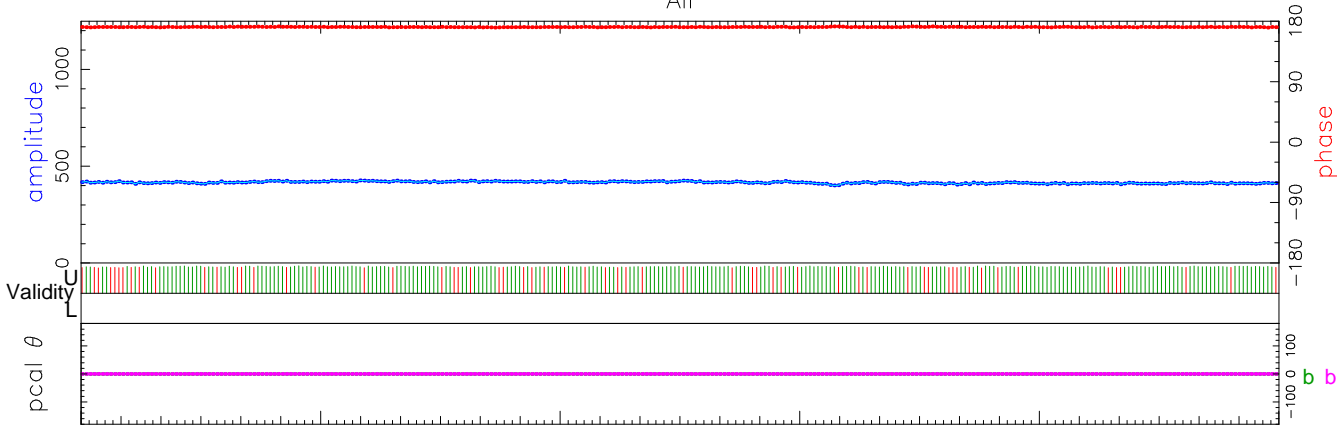
Fringe quality 9

SNR 4838.3
 Int time 288.989
 Amp 416.309
 Phase 175.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.000165
 MBD -0.000007
 Fringe rate (Hz)
 0.000007
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174155
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



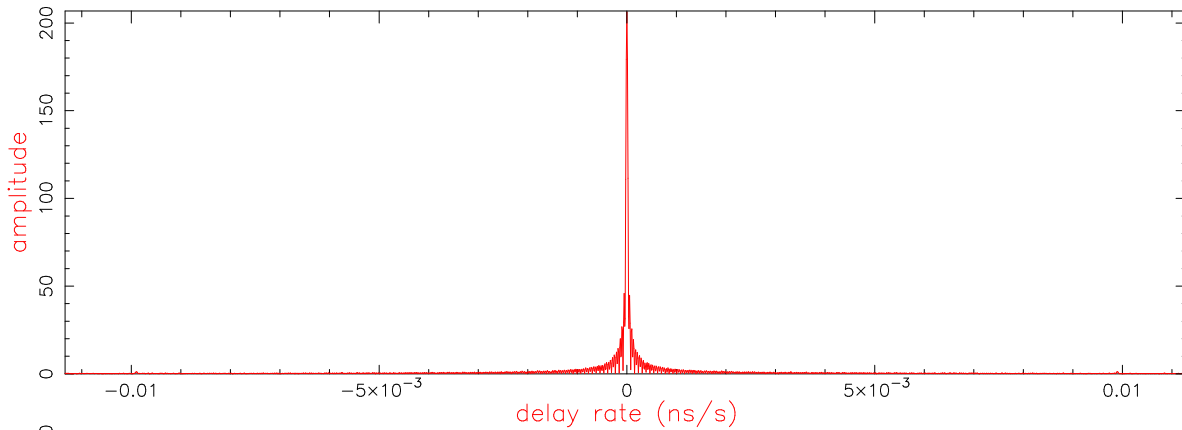
86204.00
 171.3
 416.3
 513.0
 U/L 586/0
 b 1000
 b 1000
 b:b 0:0
 b:b 0:0
 b 1000
 b 1000
 b W06UR
 b W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-1.69263607257E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.85815E-06	+/-	3.6E-06
Sband delay (usec)	-1.65500000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.65500E-04	+/-	3.6E-06
Phase delay (usec)	5.52261887542E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.52262E-06	+/-	7.6E-10
Delay rate (us/s)	8.29012414914E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	8.29012E-11	+/-	4.4E-12
Total phase (deg)	175.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	175.0	+/-	0.0

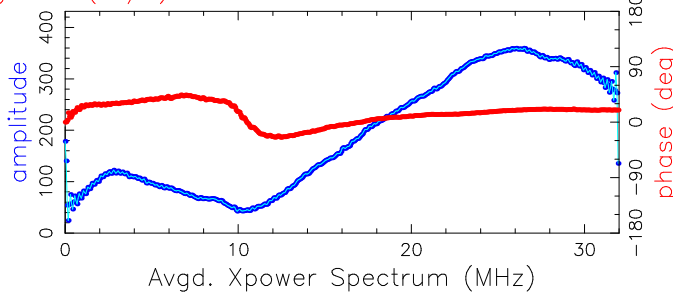
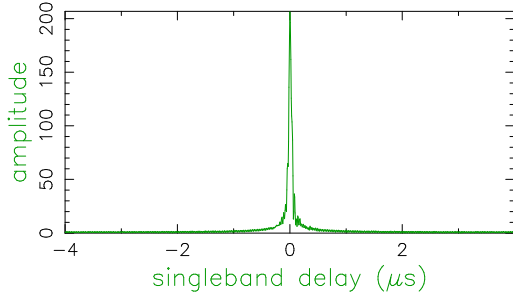
ph/seg (deg)	0.3	0.2	Amplitude	416.309 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	1.2	0.4	Search (2048X8)	416.287	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	416.292	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	0.0	Inc. frq. avg.	416.290	Sample rate(MSamp/s): 64	nlags: 512 t_cohere infinite	dr window (ns/s)	-0.011 0.011
		b: az 88.2 el 20.4 pa -44.0		u,v (fr/asec) 0.000 0.000		ion window (TEC)		0.00 0.00

simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bb..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bb.W.43.0QR3WR



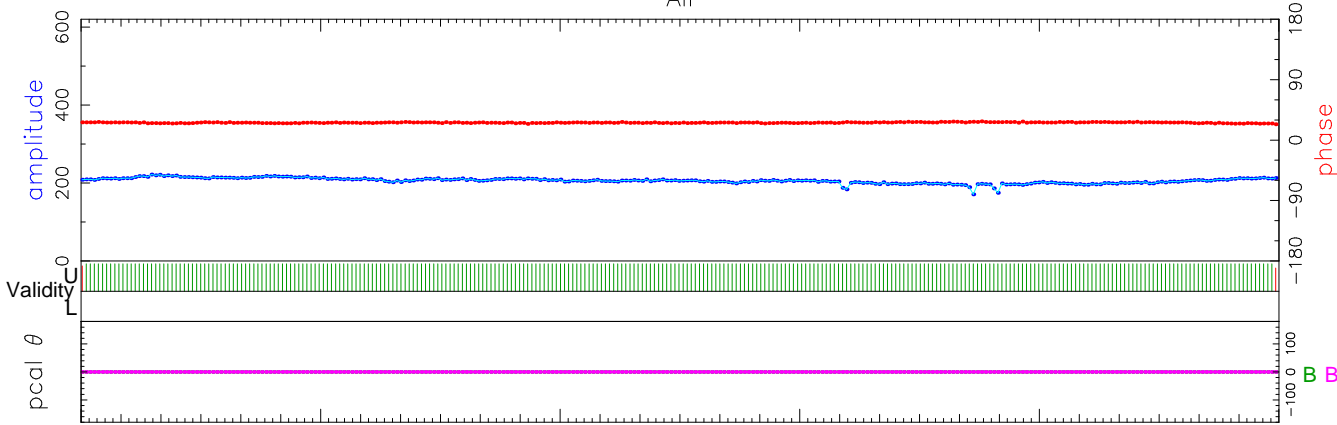
Fringe quality 9

SNR 2448.5
Int time 299.796
Amp 206.848
Phase -7.4
PFD 0.0e+00
Delays (us)
SBD 0.001440
MBD -0.000007
Fringe rate (Hz)
0.000006
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

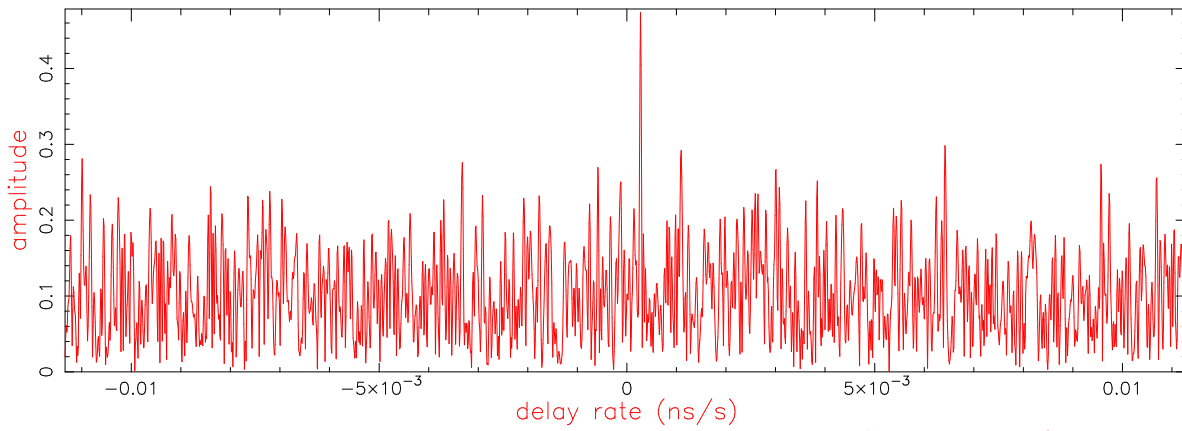


86204.00
26.0
206.3
513.2
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W06UR
B W06UL

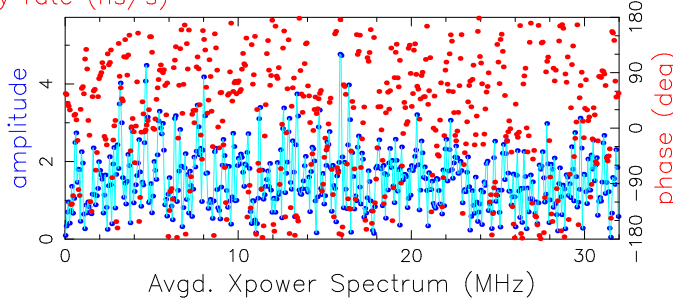
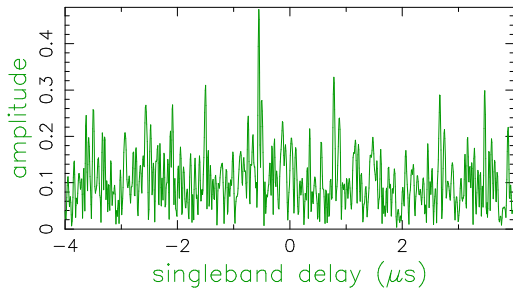
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.44322268108E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.82604E-06	+/-	7.0E-06
Sband delay (usec)	1.44000000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.44000E-03	+/-	7.0E-06
Phase delay (usec)	8.37265056798E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.37265E-07	+/-	1.5E-09
Delay rate (us/s)	6.44787433822E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	6.44787E-11	+/-	8.7E-12
Total phase (deg)	-7.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-7.4	+/-	0.0

ph/seg (deg)	0.7	Theor.	0.4	Amplitude	206.848 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	3.4		0.7	Search (2048X8)	206.272	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.3		0.0	Inc. seg. avg.	206.283	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	206.274	Data rate(Mb/s):	128	nlags:	512
								t_cohere	infinite
								ion window (TEC)	0.00 0.00

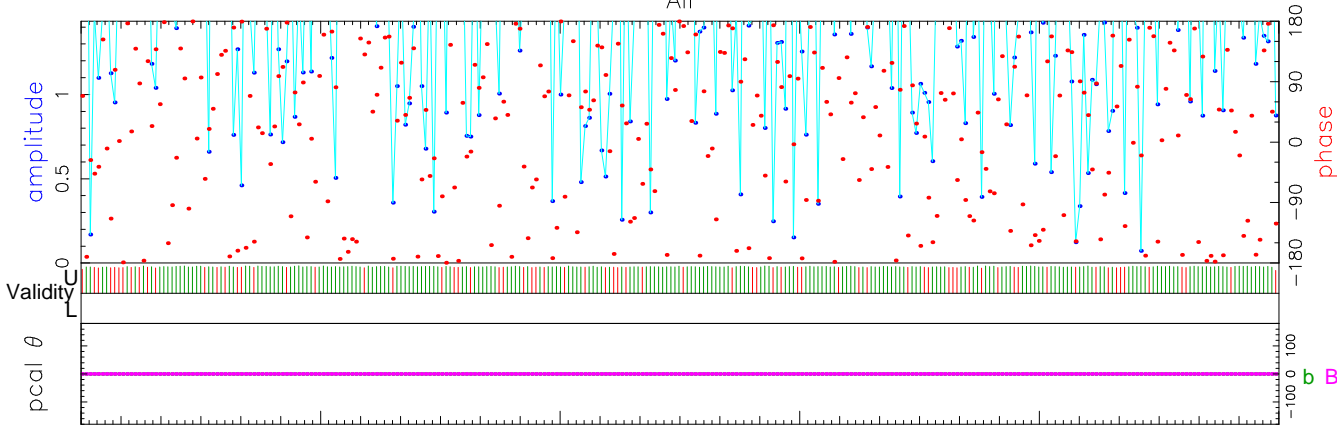


Fringe quality 0
SNR 5.6
Int time 288.325
Amp 0.478
Phase 255.2
PFD 9.7e-01
Delays (us)
SBD -0.552374
MBD 0.000005
Fringe rate (Hz)
0.024006
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



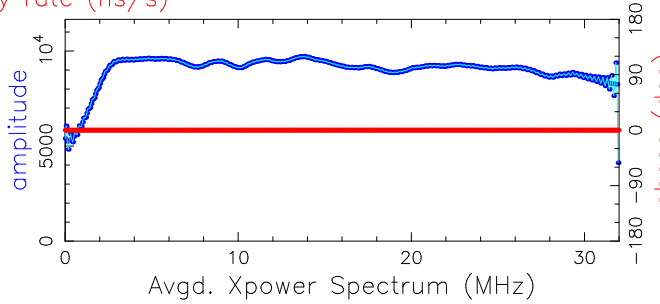
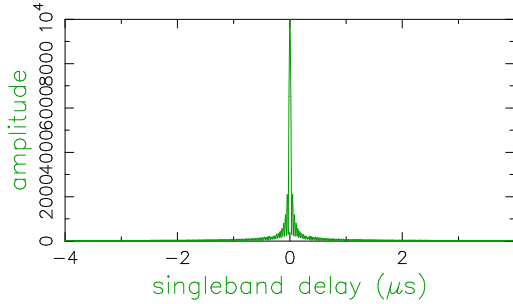
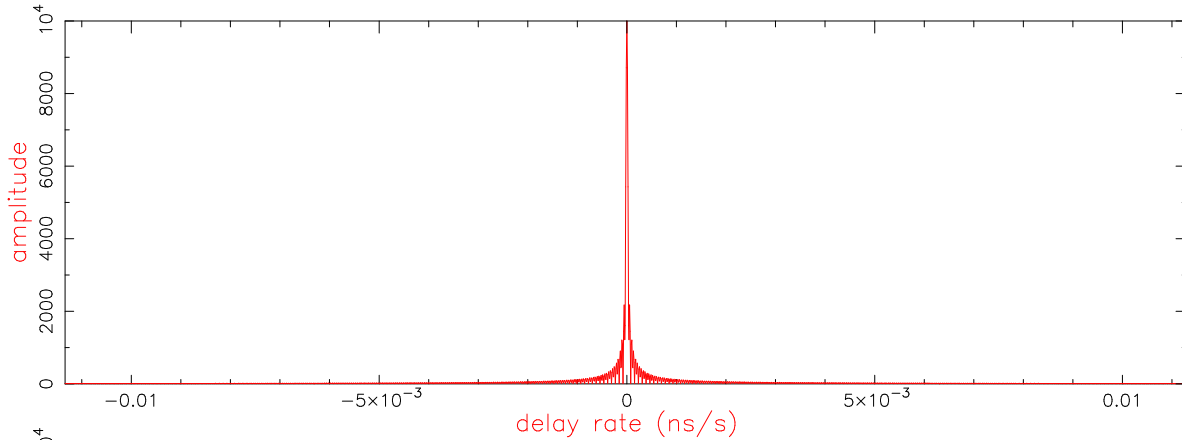
86204.00
128.5
0.5
442.3
U/L 586/0
b 1000
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W06UR
B W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.32039889848E+03	Apriori delay (usec)	-5.31984652750E+03	Resid mbdelay (usec)	4.78075E-06	+/-	3.1E-03
Sband delay (usec)	-5.32039890150E+03	Apriori clock (usec)	-3.9345272E+00	Resid sbdelay (usec)	-5.52374E-01	+/-	3.1E-03
Phase delay (usec)	-5.31984652335E+03	Apriori clockrate (us/s)	4.2699999E-07	Resid phdelay (usec)	4.14216E-06	+/-	6.7E-07
Delay rate (us/s)	1.69622661004E+00	Apriori rate (us/s)	1.69622633136E+00	Resid rate (us/s)	2.78683E-07	+/-	3.8E-09
Total phase (deg)	298.9	Apriori accel (us/s/s)	2.74053238535E-05	Resid phase (deg)	255.2	+/-	20.6

ph/seg (deg)	90.7	Theor.	176.6	Amplitude	0.478 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	340.7	Search (2048X8)	0.472	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.315	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.0	Inc. frq. avg.	0.466	Inc. frq. avg.	0.466	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 B: az 247.2 el 37.9 pa 37.6 u,v (fr/asec) -10082.326 443.938 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bB.W.65.0QR3WR

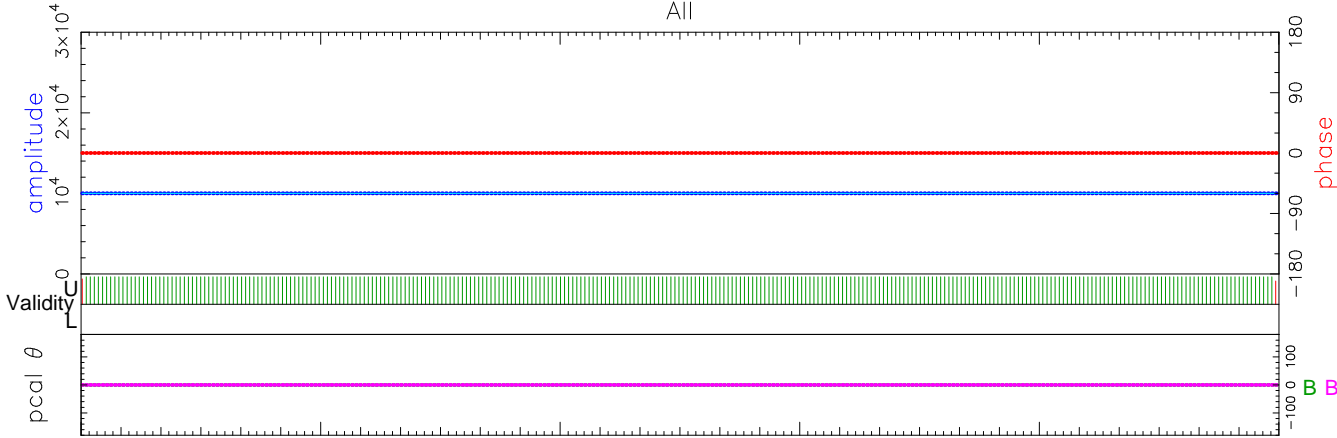


Fringe quality 9

SNR 118372.4
Int time 299.796
Amp 10000.000
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
0.2
10000.0
513.0
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W06UL
B W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.70975824788E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.89063E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.39947204571E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.39947E-09	+/-	3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X8)	10000.000	Search	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	10000.000	Inc. seg. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	10000.000	Inc. frq. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00
						nlags:	512	t_cohere	infinite

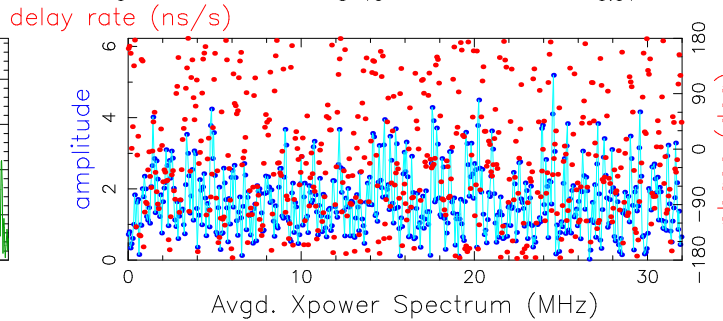
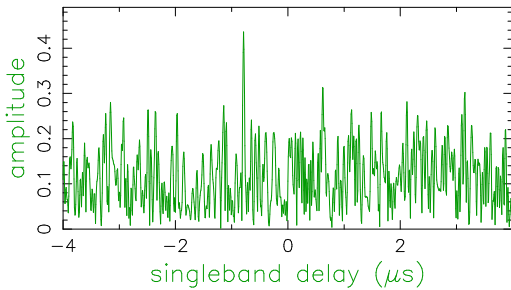
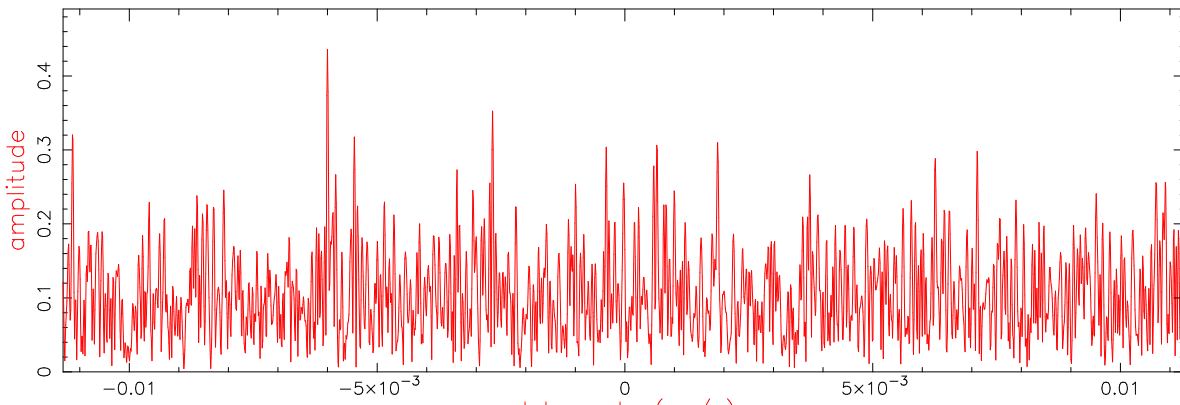
B: az 247.2 el 37.9 pa 37.6 B: az 247.2 el 37.9 pa 37.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BB..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BB.W.7.0QR3WR

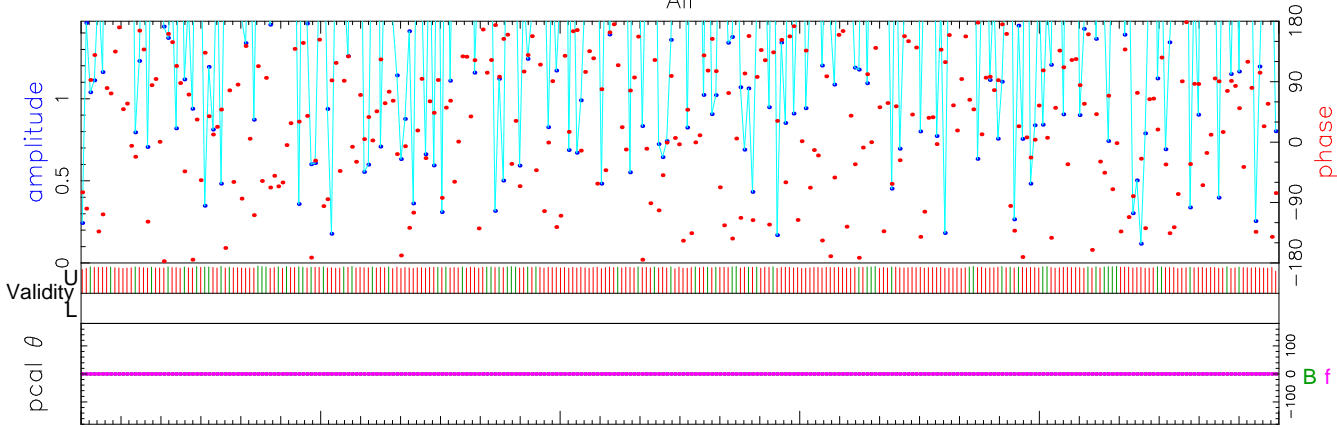
Fringe quality 0

SNR 5.0
Int time 280.962
Amp 0.491
Phase 246.1
PFD 1.0e+00
Delays (us)
SBD -0.788784
MBD -0.000005
Fringe rate (Hz)
-0.516977
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
72.6
0.5
412.0
U/L 586/0
B 0
f 1000
B:f 0:0
B:f 0:0
B 1000
f 1000
B W06UL
f W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.30887703997E+03	Apriori delay (usec)	1.30966582474E+03	Resid mbdelay (usec)	-4.66874E-06	+/-	3.4E-03
Sband delay (usec)	1.30887704074E+03	Apriori clock (usec)	5.0873098E+00	Resid sbdelay (usec)	-7.88784E-01	+/-	3.4E-03
Phase delay (usec)	1.30966582708E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	2.33980E-06	+/-	7.4E-07
Delay rate (us/s)	-1.84713595104E+00	Apriori rate (us/s)	-1.84712994945E+00	Resid rate (us/s)	-6.00159E-06	+/-	4.3E-09
Total phase (deg)	297.5	Apriori accel (us/s/s)	1.34234692284E-06	Resid phase (deg)	246.1	+/-	22.9

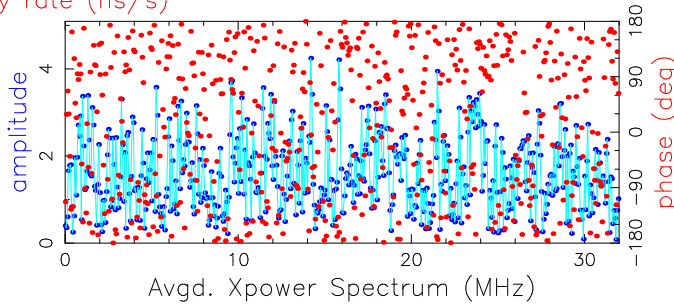
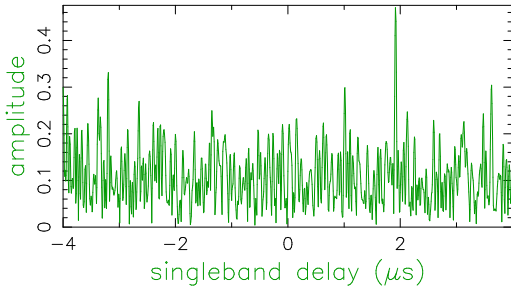
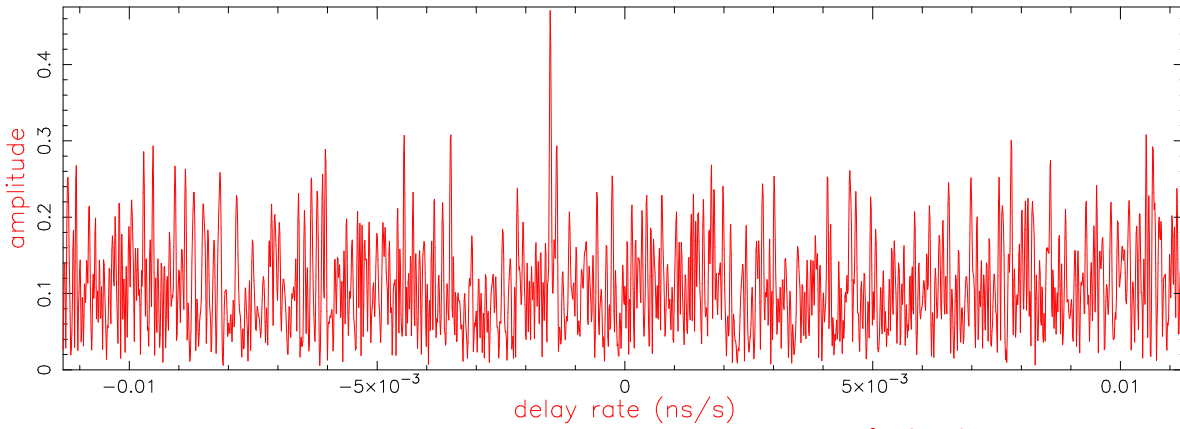
ph/seg (deg)	91.3	Theor.	196.3	Amplitude	0.491 +/- 0.098	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	383.0	Search (2048X8)	0.432	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.296	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.0	Inc. frq. avg.	0.481	Inc. frq. avg.	0.481	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window(TEC)	0.00 0.00

B: az 247.2 el 37.9 pa 37.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 11019.716 2208.751 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bf.W.16.0QR3WR

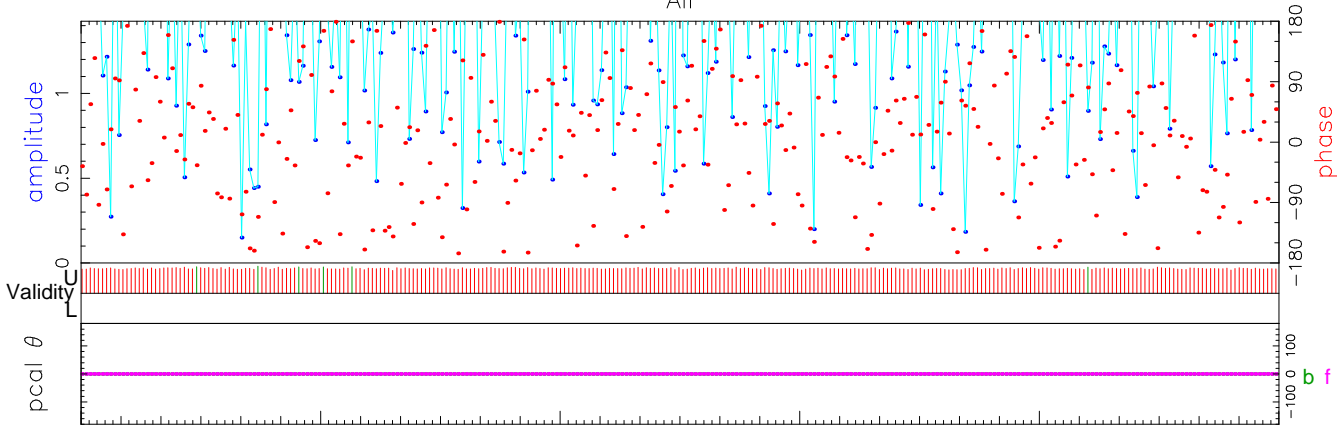
Fringe quality 0

SNR 5.3
Int time 270.871
Amp 0.475
Phase -190.5
PFD 1.0e+00
Delays (us)
SBD 1.915431
MBD -0.000006
Fringe rate (Hz)
-0.129678
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
21.0
0.5
758.2
U/L 586/0
b 1000
f 1000
b:f 0:0
b:f 0:0
b 1000
f 1000
b W06UR
f W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp

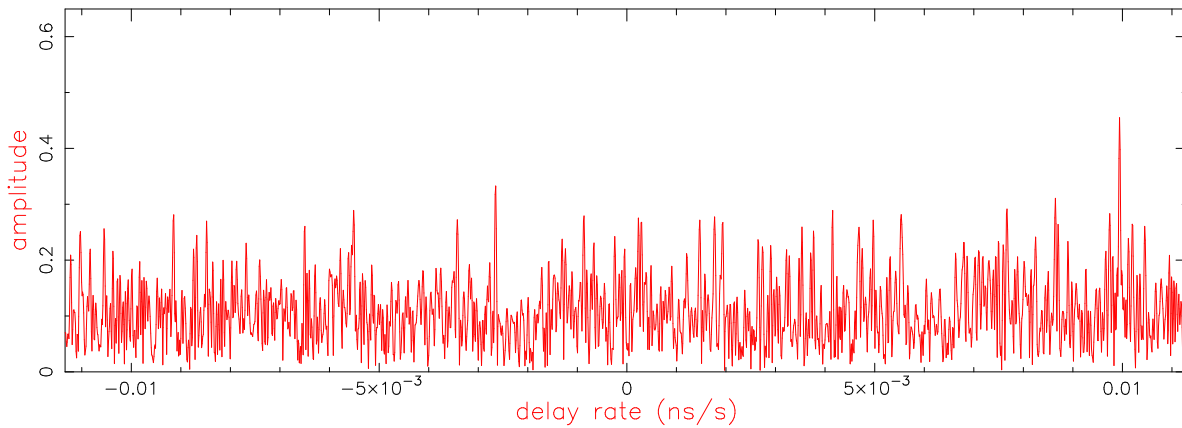
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.00826527592E+03	Apriori delay (usec)	-4.01018070276E+03	Resid mbdelay (usec)	-6.32500E-06	+/-	3.2E-03
Sband delay (usec)	-4.00826527126E+03	Apriori clock (usec)	1.1527827E+00	Resid sbdelay (usec)	1.91543E+00	+/-	3.2E-03
Phase delay (usec)	-4.01018070208E+03	Apriori clockrate (us/s)	2.2699999E-07	Resid phdelay (usec)	6.78247E-07	+/-	7.0E-07
Delay rate (us/s)	-1.50905123527E-01	Apriori rate (us/s)	-1.50903618092E-01	Resid rate (us/s)	-1.50544E-06	+/-	4.0E-09
Total phase (deg)	-95.3	Apriori accel (us/s/s)	2.87476707763E-05	Resid phase (deg)	-190.5	+/-	21.6

ph/seg (deg)	RMS 91.6	Theor. 184.7	Amplitude 0.475 +/- 0.090	Search (2048X8)	0.466	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	365.3	322.4	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.8	Inc. seg. avg.	0.304		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.3	18.8	Inc. frq. avg.	0.466		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

b: az 88.2 el 20.4 pa -44.0 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 937.390 2652.689 simultaneous interpolator

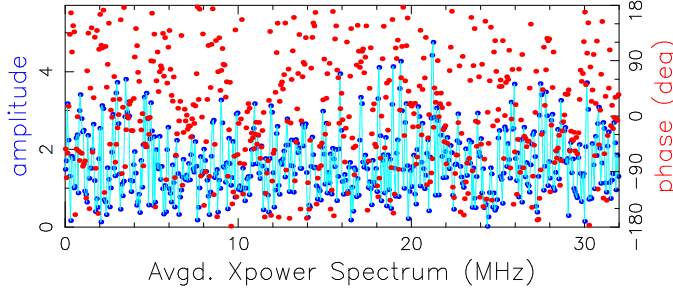
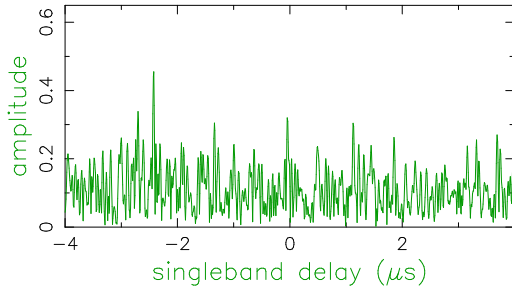
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bf.W.27.0QR3WR



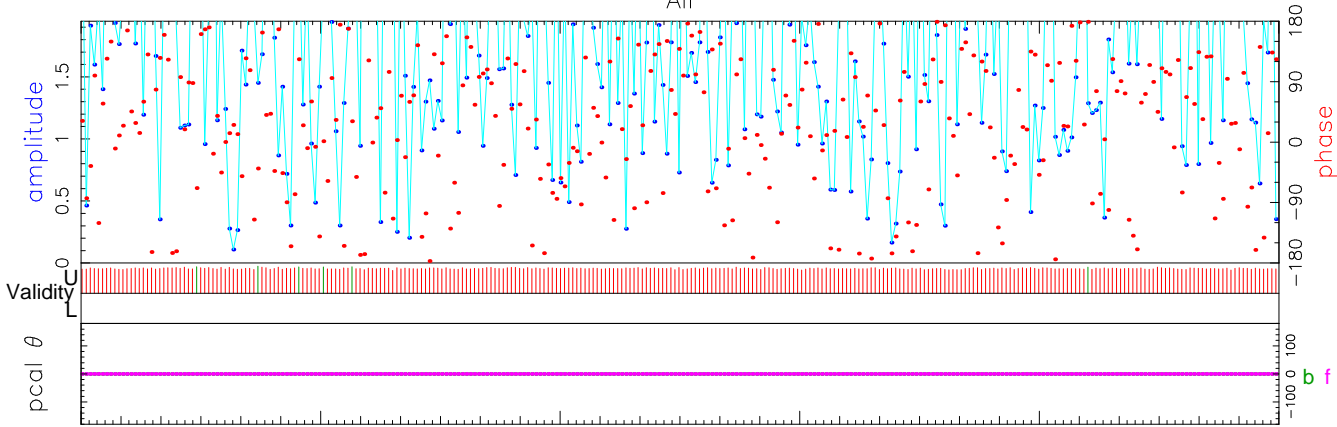
Fringe quality 0

SNR 5.2
 Int time 270.879
 Amp 0.650
 Phase 143.8
 PFD 1.0e+00
 Delays (us)
 SBD -2.424822
 MBD 0.000004
 Fringe rate (Hz)
 0.855601
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174152
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
 75.8
 0.6
 202.6
 U/L 586/0
 b 1000
 f 1000
 b:f 0:0
 b:f 0:0
 b 1000
 f 1000
 b W06UL
 f W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-4.01260552786E+03	Apriori delay (usec)	-4.01018070276E+03	Resid mbdelay (usec)	4.37184E-06	+/-	3.3E-03
Sband delay (usec)	-4.01260552426E+03	Apriori clock (usec)	1.1527827E+00	Resid sbdelay (usec)	-2.42482E+00	+/-	3.3E-03
Phase delay (usec)	-4.01018070031E+03	Apriori clockrate (us/s)	2.26999999E-07	Resid phdelay (usec)	2.44353E-06	+/-	7.1E-07
Delay rate (us/s)	-1.50893685410E-01	Apriori rate (us/s)	-1.50903618092E-01	Resid rate (us/s)	9.93268E-06	+/-	4.1E-09
Total phase (deg)	239.1	Apriori accel (us/s/s)	2.87476707763E-05	Resid phase (deg)	143.8	+/-	22.0

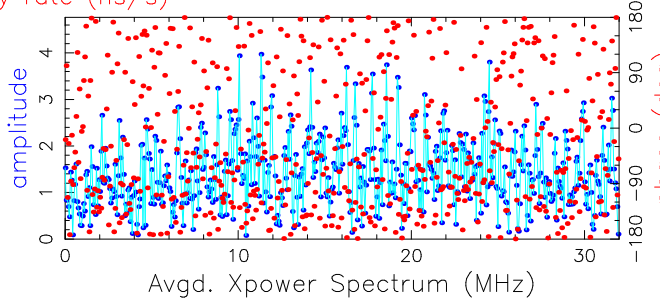
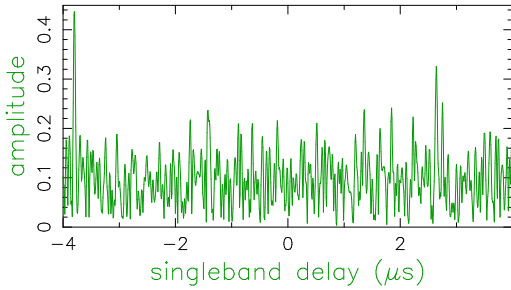
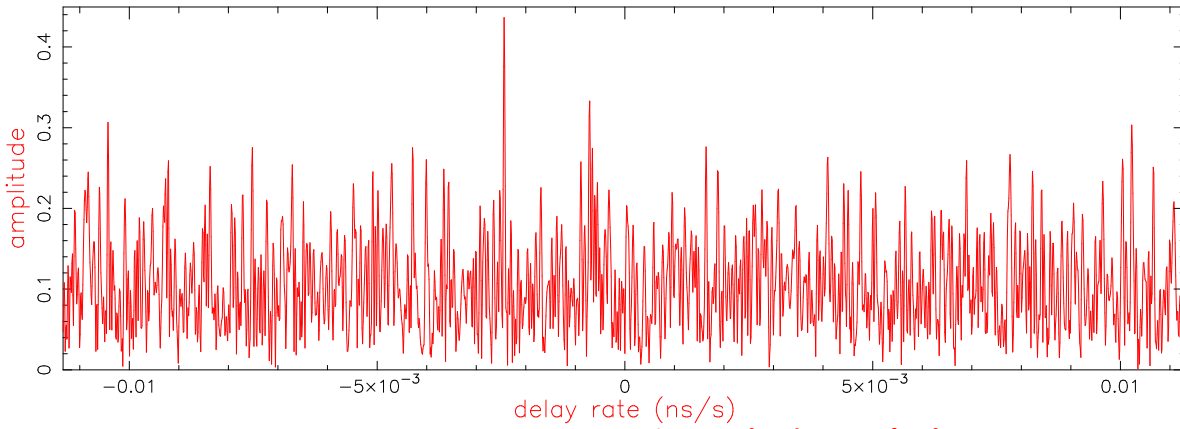
ph/seg (deg)	91.8	Theor.	188.2	Amplitude	0.650 +/- 0.125	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	385.5	Search (2048X8)	0.447	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.420	Inc. frq. avg.	0.627	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.8	Inc. frq. avg.	0.627	u,v (fr/asec)	937.390 2652.689	Sample rate(MSamp/s): 64	ion window (TEC)	0.00	0.00	

b: az 88.2 el 20.4 pa -44.0 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 937.390 2652.689 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bf.W.3.0QR3WR

Fringe quality 0

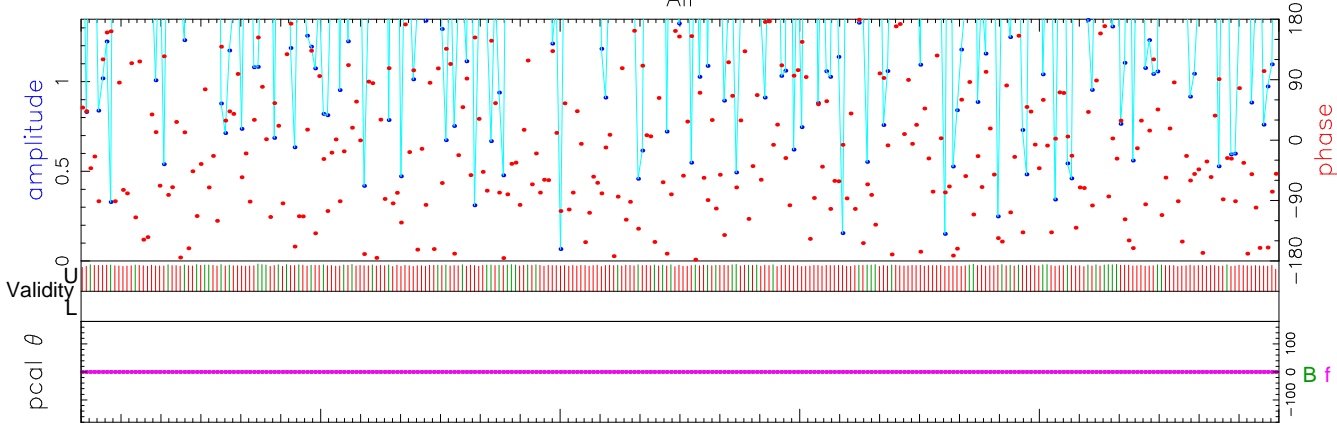
SNR 5.1
Int time 280.952
Amp 0.450
Phase 17.9
PFD 1.0e+00
Delays (us)
SBD -3.799937
MBD -0.000007
Fringe rate (Hz)
-0.210018
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-52.4
0.4
26.6
U/L 586/0
B 0
f 1000
B:f 0:0
B:f 0:0
B 1000
f 1000
B W06UR
f W06UR

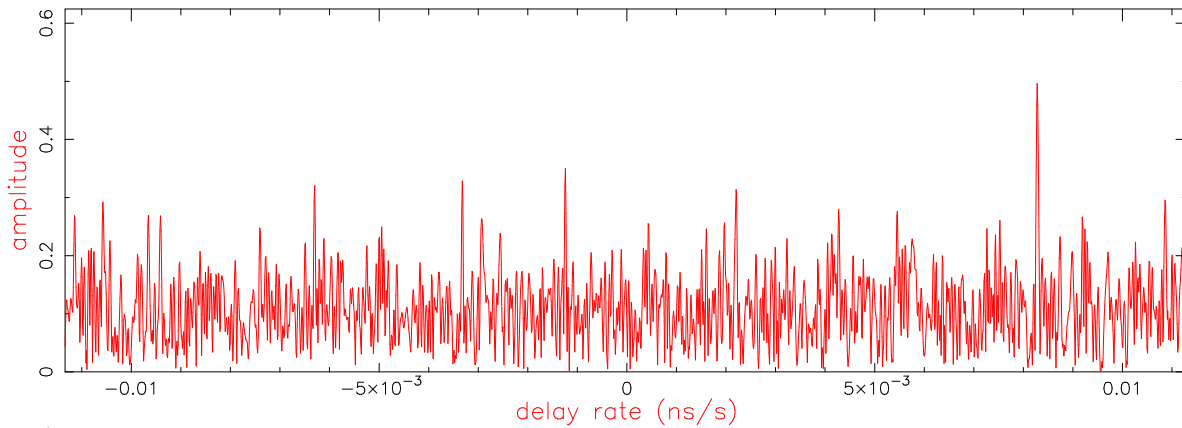
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.30586588942E+03	Apriori delay (usec)	1.30966582474E+03	Resid mbdelay (usec)	-7.24305E-06	+/-	3.4E-03
Sband delay (usec)	1.30586588824E+03	Apriori clock (usec)	5.0873098E+00	Resid sbdelay (usec)	-3.79994E+00	+/-	3.4E-03
Phase delay (usec)	1.30966582305E+03	Apriori clockrate (us/s)	-2.000000E-07	Resid phdelay (usec)	-1.68964E-06	+/-	7.3E-07
Delay rate (us/s)	-1.84713238755E+00	Apriori rate (us/s)	-1.84712994945E+00	Resid rate (us/s)	-2.43810E-06	+/-	4.2E-09
Total phase (deg)	69.4	Apriori accel (us/s/s)	1.34234692284E-06	Resid phase (deg)	17.9	+/-	22.7

ph/seg (deg)	93.5	Theor.	194.1	Amplitude	0.450 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	384.2	Search (2048X8)	0.430	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.281	Inc. frq. avg.	0.436	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.0	Inc. frq. avg.	0.436	u,v (fr/asec)	11019.716 2208.751	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

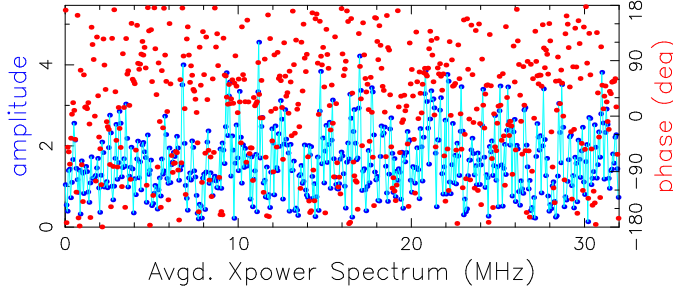
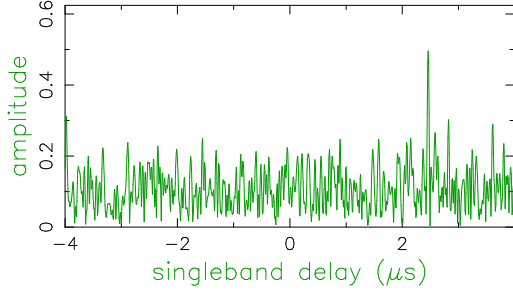
B: az 247.2 el 37.9 pa 37.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 11019.716 2208.751 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bf.W.33.0QR3WR



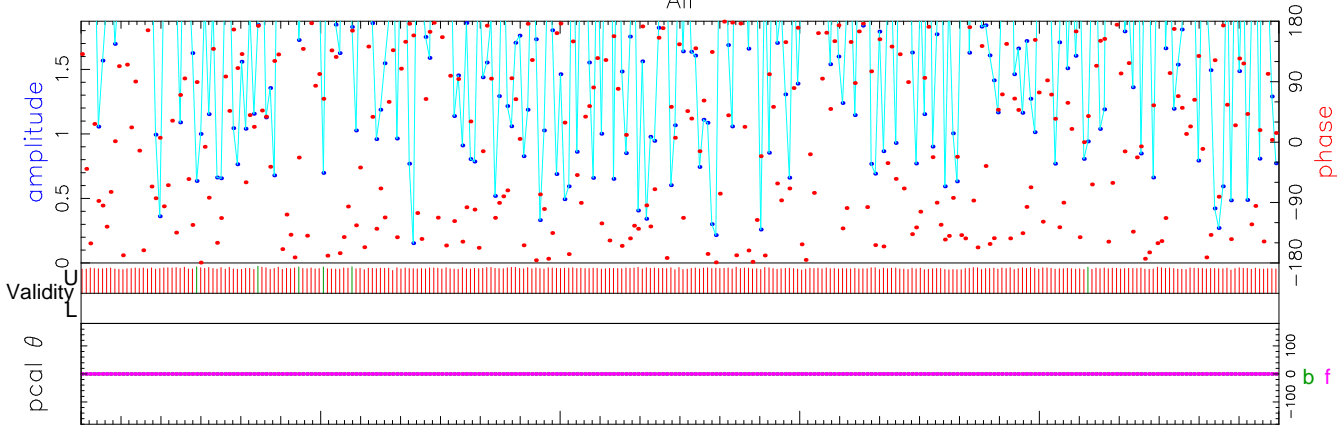
Fringe quality 0

SNR 5.6
 Int time 270.870
 Amp 0.625
 Phase -336.2
 PFD 9.4e-01
 Delays (us)
 SBD 2.459953
 MBD 0.000004
 Fringe rate (Hz)
 0.712634
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174155
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



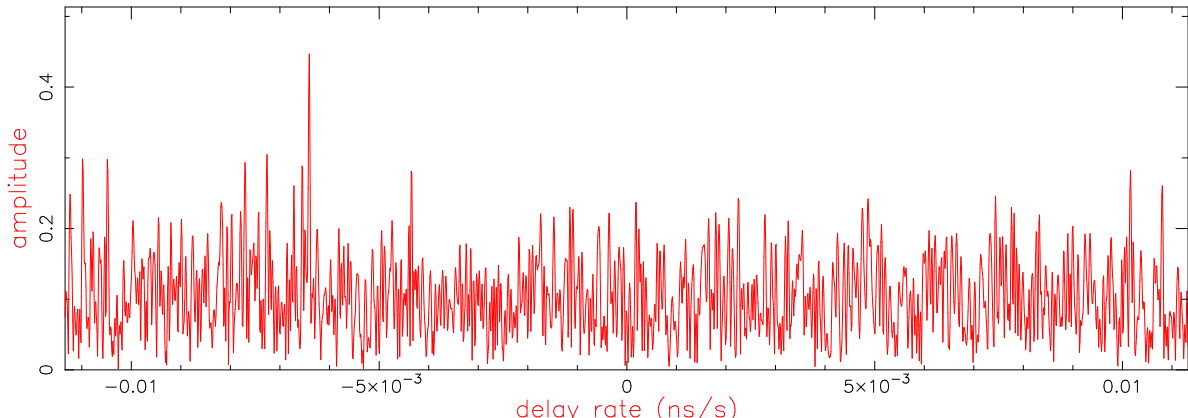
86204.00
 -179.1
 0.6
 827.9
 U/L 586/0
 b 1000
 f 1000
 b:f 0:0
 b:f 0:0
 b 1000
 f 1000
 b W06UL
 f W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

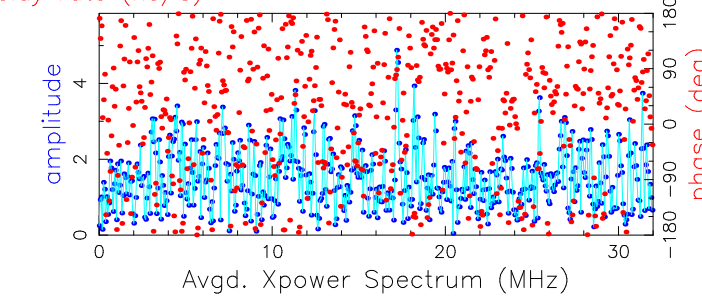
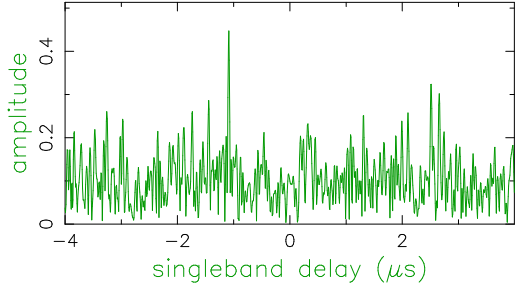
Group delay (usec)(sbd)	-4.00772075442E+03	Apriori delay (usec)	-4.01018070276E+03	Resid mbdelay (usec)	4.48193E-06	+/-	3.1E-03
Sband delay (usec)	-4.00772074976E+03	Apriori clock (usec)	1.1527827E+00	Resid sbdelay (usec)	2.45995E+00	+/-	3.1E-03
Phase delay (usec)	-4.01018070853E+03	Apriori clockrate (us/s)	2.2699999E-07	Resid phdelay (usec)	-5.77603E-06	+/-	6.6E-07
Delay rate (us/s)	-1.50895345119E-01	Apriori rate (us/s)	-1.50903618092E-01	Resid rate (us/s)	8.27297E-06	+/-	3.8E-09
Total phase (deg)	-241.0	Apriori accel (us/s/s)	2.87476707763E-05	Resid phase (deg)	-336.2	+/-	20.5

ph/seg (deg)	90.3	Theor.	175.6	Amplitude	0.625 +/- 0.112	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	348.4	Search (2048X8)	0.491	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.1	Inc. seg. avg.	0.426	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.614	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00		

b: az 88.2 el 20.4 pa -44.0 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 937.390 2652.689 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bf.W.41.0QR3WR



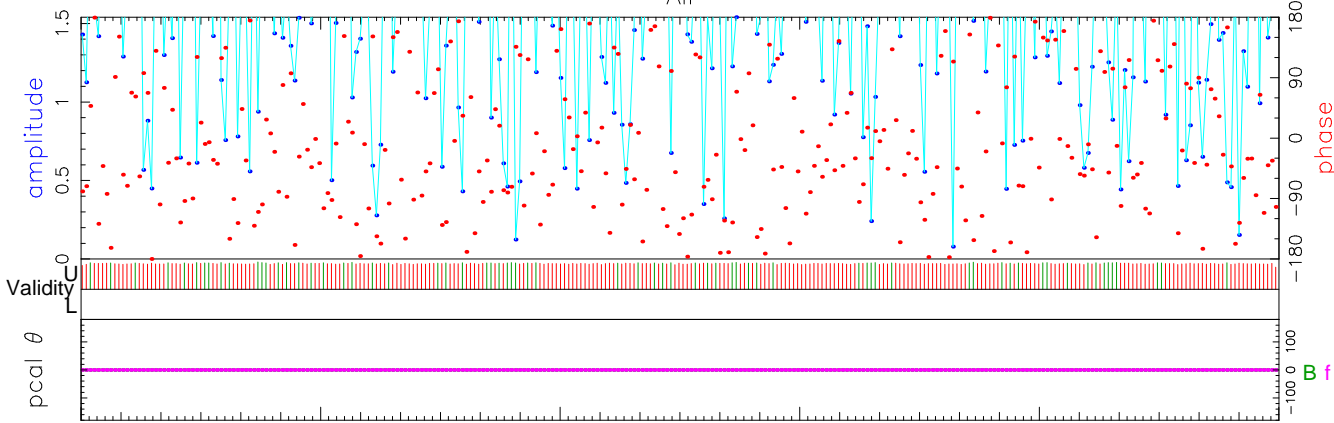
Fringe quality 0
SNR 5.1
Int time 280.952
Amp 0.513
Phase 155.5
PFD 1.0e+00
Delays (us)
SBD -1.087327
MBD -0.000004
Fringe rate (Hz)
-0.552152
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-56.6
0.5
373.8
U/L 586/0
B 0
f 1000
B:f 0:0
B:f 0:0
B 1000
f 1000
B W06UL
f W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.30857849265E+03	Apriori delay (usec)	1.30966582474E+03	Resid mbdelay (usec)	-4.35409E-06	+/-	3.4E-03
Sband delay (usec)	1.30857849824E+03	Apriori clock (usec)	5.0873098E+00	Resid sbdelay (usec)	-1.08733E+00	+/-	3.4E-03
Phase delay (usec)	1.30966582292E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	-1.82386E-06	+/-	7.2E-07
Delay rate (us/s)	-1.84713635939E+00	Apriori rate (us/s)	-1.84712994945E+00	Resid rate (us/s)	-6.40994E-06	+/-	4.2E-09
Total phase (deg)	207.0	Apriori accel (us/s/s)	1.34234692284E-06	Resid phase (deg)	155.5	+/-	22.3

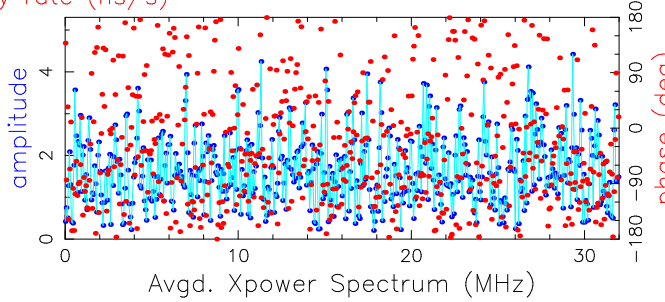
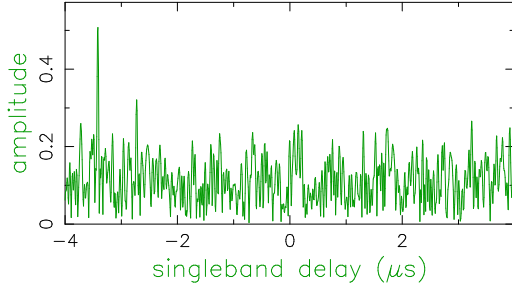
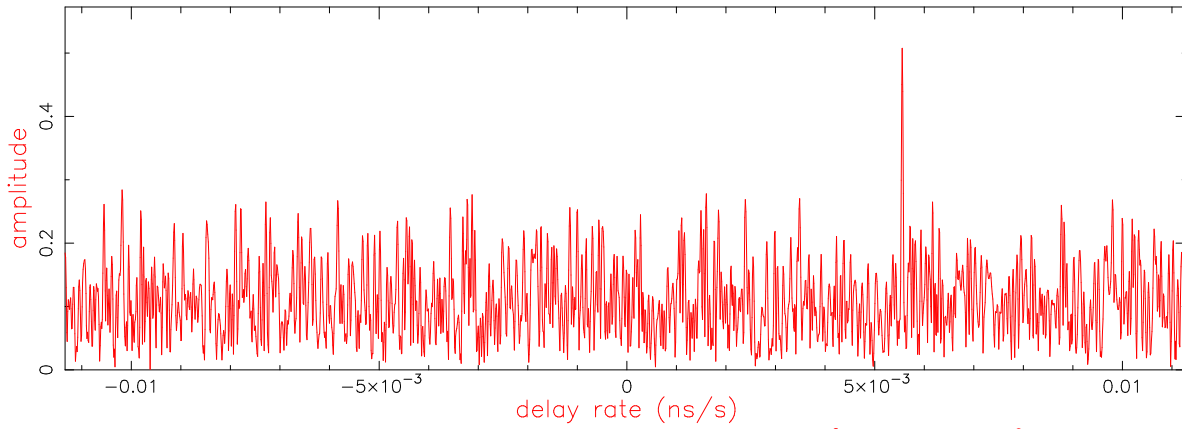
ph/seg (deg)	93.9	Theor.	190.8	Amplitude	0.513 +/- 0.100	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	367.0	Search (2048X8)	0.444	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.319	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.502	Inc. frq. avg.	0.502	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 11019.716 2208.751 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bf.W.46.0QR3WR

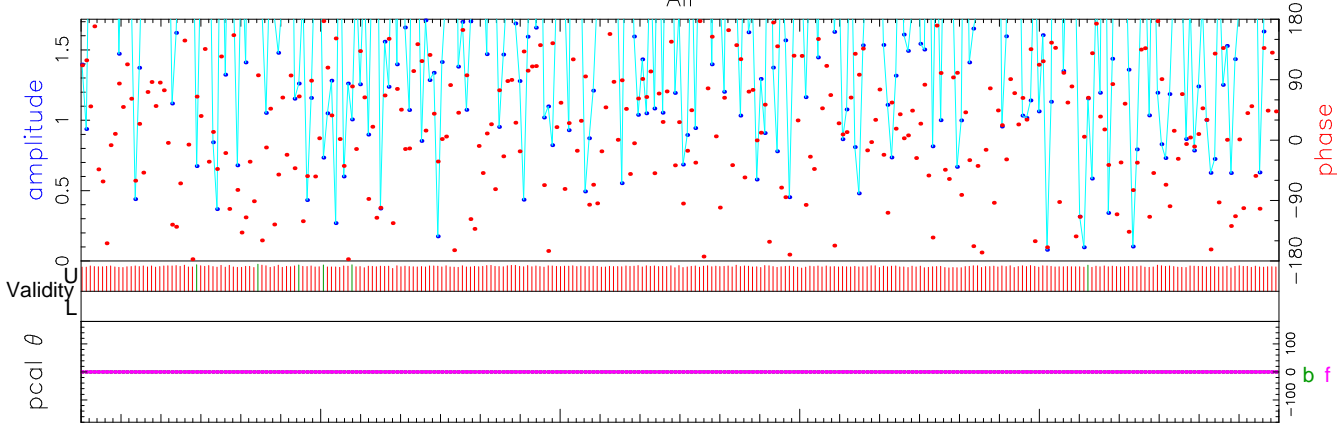
Fringe quality 0

SNR 5.8
Int time 270.880
Amp 0.573
Phase 292.6
PFD 5.1e-01
Delays (us)
SBD -3.417252
MBD 0.000006
Fringe rate (Hz)
0.478294
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



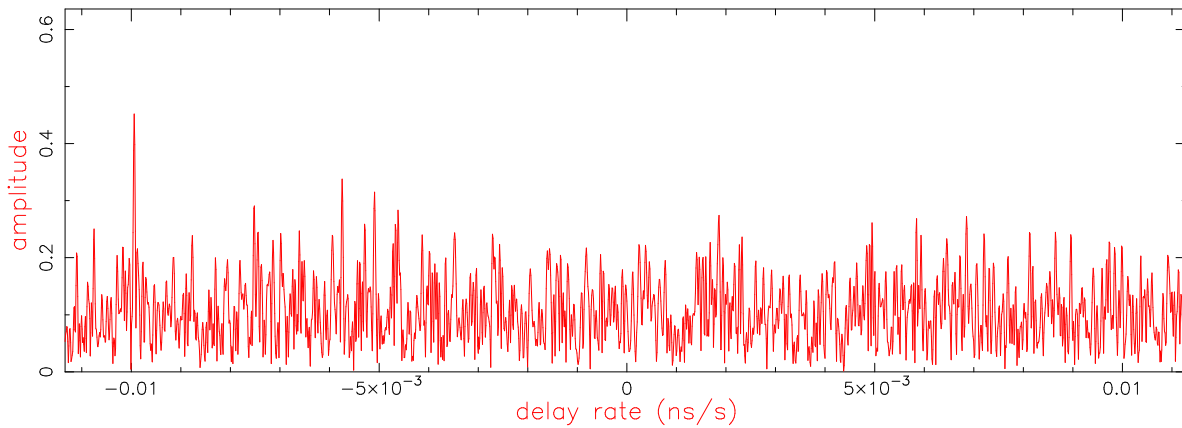
86204.00
39.1
0.6
75.6
U/L 586/0
b 1000
f 1000
b:f 0:0
b:f 0:0
b 1000
f 1000
b W06UR
f W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.01359795119E+03	Apriori delay (usec)	-4.01018070276E+03	Resid mbdelay (usec)	5.98691E-06	+/-	3.0E-03
Sband delay (usec)	-4.01359795426E+03	Apriori clock (usec)	1.1527827E+00	Resid sbdelay (usec)	-3.41725E+00	+/-	3.0E-03
Phase delay (usec)	-4.01018070150E+03	Apriori clockrate (us/s)	2.26999999E-07	Resid phdelay (usec)	1.26091E-06	+/-	6.3E-07
Delay rate (us/s)	-1.50898065570E-01	Apriori rate (us/s)	-1.50903618092E-01	Resid rate (us/s)	5.55252E-06	+/-	3.7E-09
Total phase (deg)	27.9	Apriori accel (us/s/s)	2.87476707763E-05	Resid phase (deg)	292.6	+/-	19.7

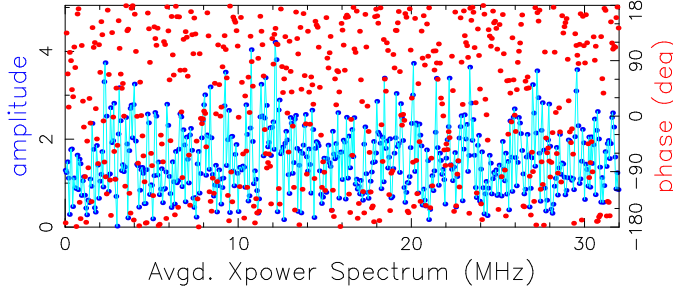
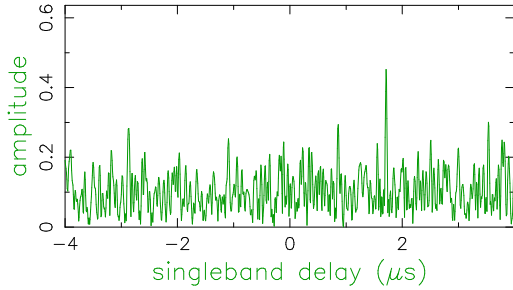
ph/seg (deg)	88.0	Theor.	168.3	Amplitude	0.573 +/- 0.098	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	326.7	Search (2048X8)	0.488	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.395	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.0	Inc. frq. avg.	0.553	Inc. frq. avg.	0.553	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 937.390 2652.689 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bf.W.53.0QR3WR



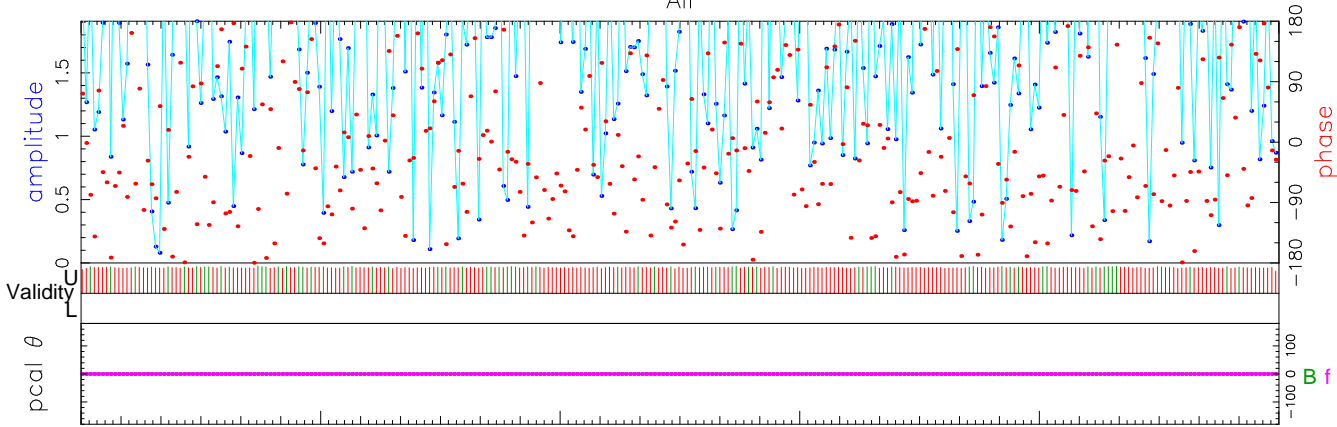
Fringe quality 0

SNR 5.2
Int time 280.962
Amp 0.636
Phase -281.1
PFD 1.0e+00
Delays (us)
SBD 1.712376
MBD -0.000005
Fringe rate (Hz)
-0.855660
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



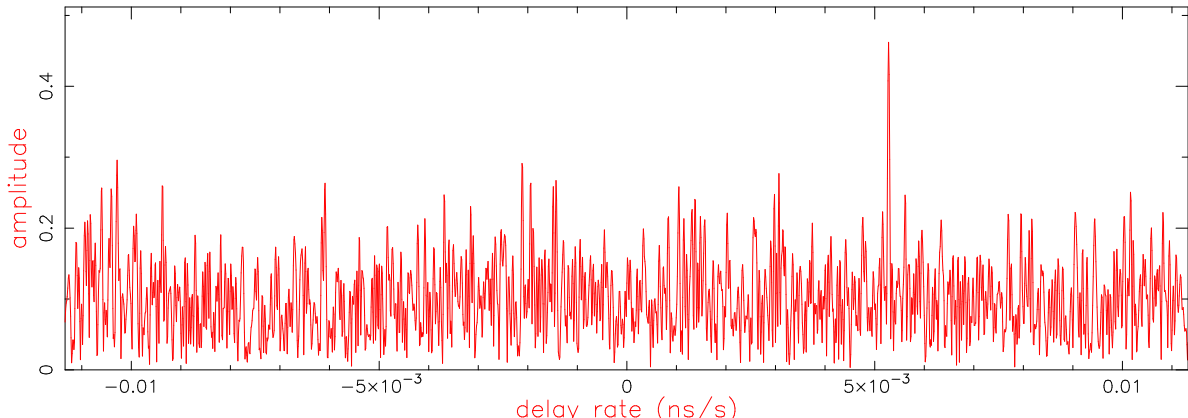
86204.00
-67.9
0.6
732.2
U/L 586/0
B 0
f 1000
B:f 0:0
B:f 0:0
B 1000
f 1000
B W06UR
f W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

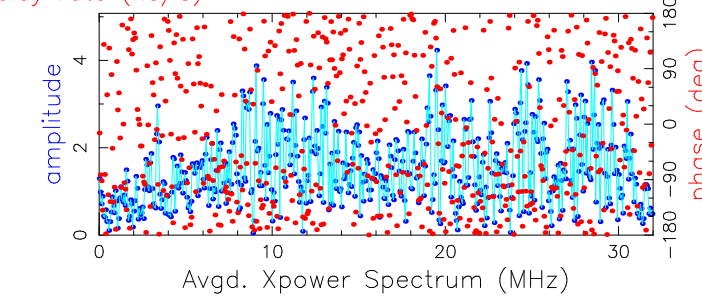
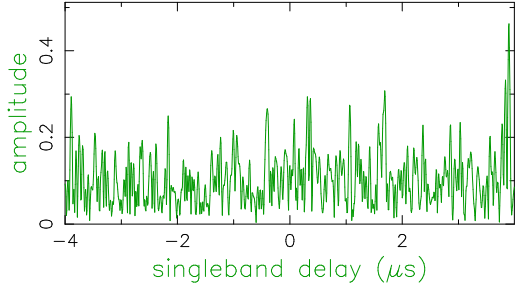
Group delay (usec)(sbd)	1.31137819957E+03	Apriori delay (usec)	1.30966582474E+03	Resid mbdelay (usec)	-5.10232E-06	+/-	3.3E-03
Sband delay (usec)	1.31137820024E+03	Apriori clock (usec)	5.0873098E+00	Resid sbdelay (usec)	1.71238E+00	+/-	3.3E-03
Phase delay (usec)	1.30966582255E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	-2.18929E-06	+/-	7.1E-07
Delay rate (us/s)	-1.84713988282E+00	Apriori rate (us/s)	-1.84712994945E+00	Resid rate (us/s)	-9.93337E-06	+/-	4.1E-09
Total phase (deg)	-229.6	Apriori accel (us/s/s)	1.34234692284E-06	Resid phase (deg)	-281.1	+/-	22.1

ph/seg (deg)	92.1	Theor.	188.8	Amplitude	0.636 +/- 0.122	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	385.0	Search (2048X8)	0.447	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000				
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000		
amp/frq (%)	0.4	Inc. seg. avg.	0.414	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011				
		Inc. frq. avg.	0.622	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00	0.00

B: az 247.2 el 37.9 pa 37.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 11019.716 2208.751 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bf..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bf.W.58.0QR3WR

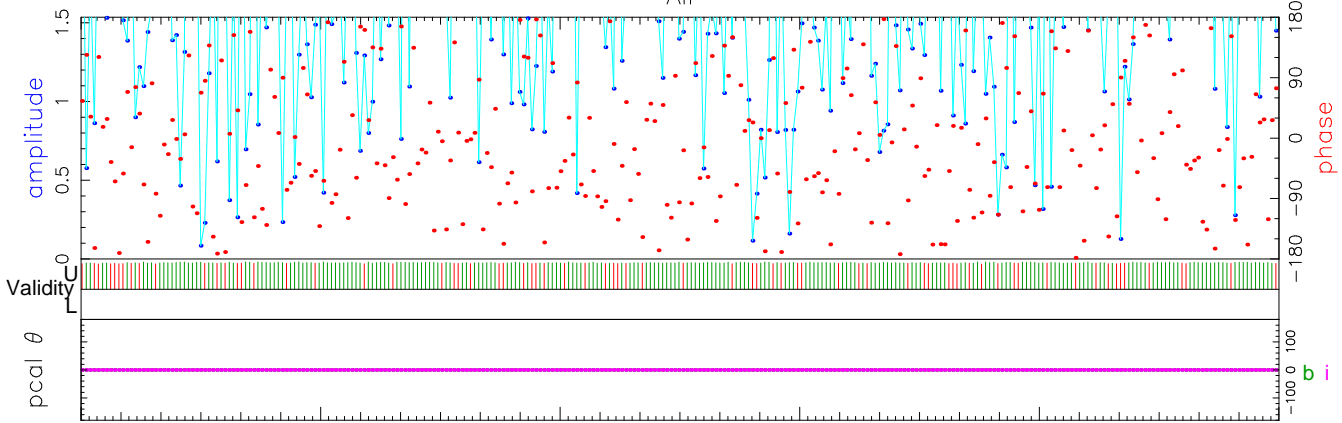


Fringe quality 0
SNR 5.4
Int time 288.498
Amp 0.512
Phase -157.1
PFD 1.0e+00
Delays (us)
SBD 3.895293
MBD 0.000005
Fringe rate (Hz) 0.454907
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-49.8
0.5
1011.6
U/L 586/0
b 1000
i 0
b:i 0:0
b:i 0:0
b 1000
i 1000
b W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.48369398690E+03	Apriori delay (usec)	-8.48758927558E+03	Resid mbdelay (usec)	5.39353E-06	+/-	3.2E-03
Sband delay (usec)	-8.48369398258E+03	Apriori clock (usec)	1.6527655E+01	Resid sbdelay (usec)	3.89529E+00	+/-	3.2E-03
Phase delay (usec)	-8.48758927718E+03	Apriori clockrate (us/s)	4.7999999E-07	Resid phdelay (usec)	-1.60541E-06	+/-	6.8E-07
Delay rate (us/s)	1.73067080257E+00	Apriori rate (us/s)	1.73066552155E+00	Resid rate (us/s)	5.28102E-06	+/-	3.9E-09
Total phase (deg)	-228.5	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	-157.1	+/-	21.1

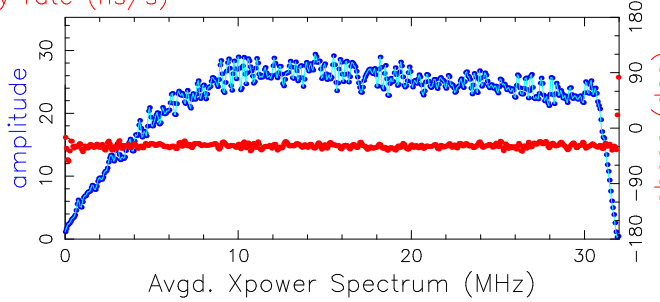
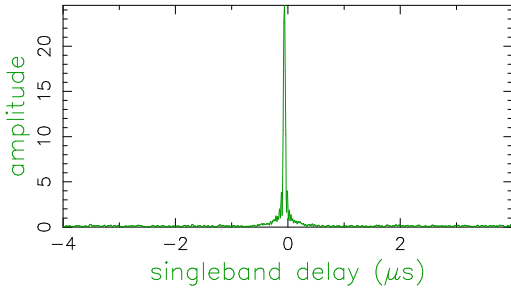
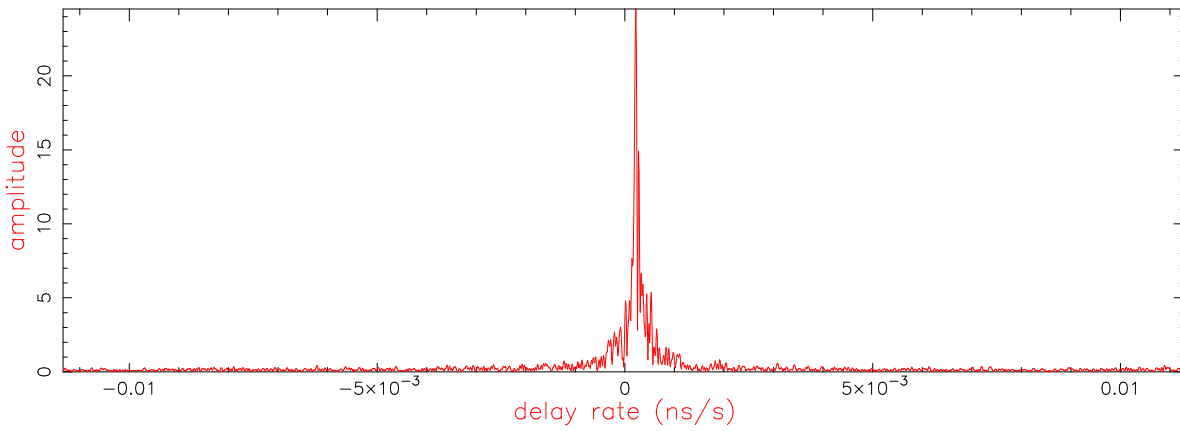
ph/seg (deg)	93.0	Theor.	180.7	Amplitude	0.512 +/- 0.094	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	356.1	Search (2048X8)	0.458	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.339	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.2	Inc. frq. avg.	0.498	Inc. frq. avg.	0.498	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10258.837 2393.250 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bi.W.11.0QR3WR

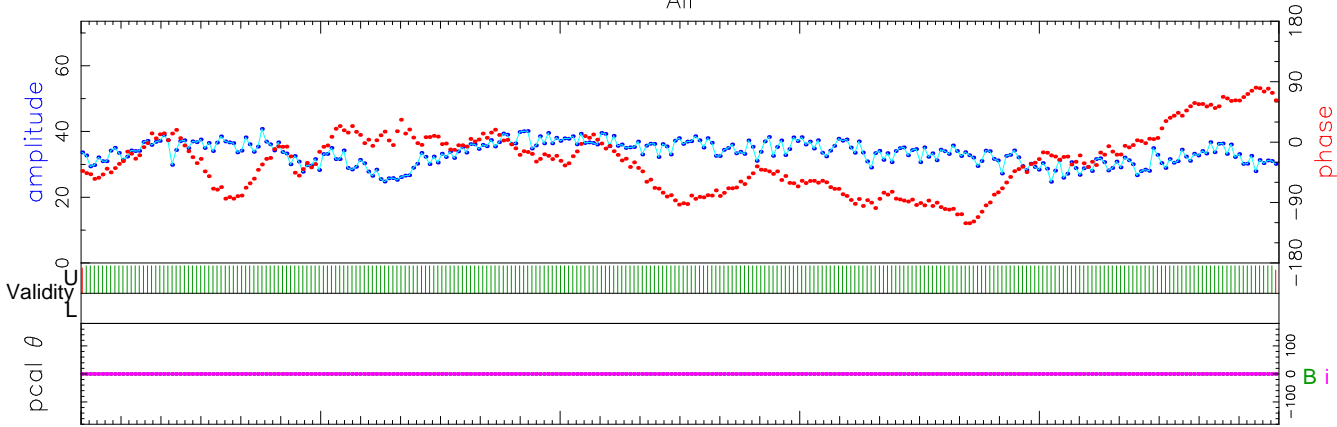
Fringe quality 6

SNR 290.2
Int time 299.796
Amp 24.522
Phase 335.1
PFD 0.0e+00
Delays (us)
SBD -0.062713
MBD 0.000006
Fringe rate (Hz)
0.019201
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



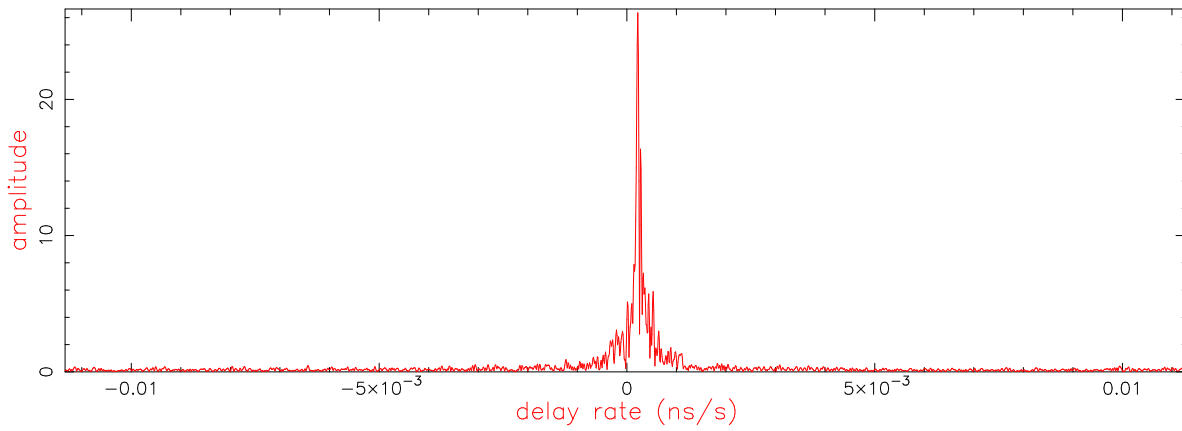
86204.00
-30.0
24.5
505.0
U/L 586/0
B 0
i 0
B:i 0:0
B:i 0:0
B 1000
i 1000
B W06UR
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.16780546570E+03	Apriori delay (usec)	-3.16774274808E+03	Resid mbdelay (usec)	5.69421E-06	+/-	5.9E-05
Sband delay (usec)	-3.16780546158E+03	Apriori clock (usec)	2.0462181E+01	Resid sbdelay (usec)	-6.27135E-02	+/-	5.9E-05
Phase delay (usec)	-3.16774274905E+03	Apriori clockrate (us/s)	5.3000000E-08	Resid phdelay (usec)	-9.68371E-07	+/-	1.3E-08
Delay rate (us/s)	3.44394130950E-02	Apriori rate (us/s)	3.44391901913E-02	Resid rate (us/s)	2.22904E-07	+/-	7.4E-11
Total phase (deg)	220.0	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	335.1	+/-	0.4

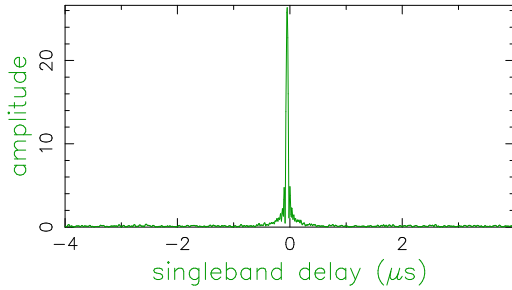
ph/seg (deg)	45.0	RMS	3.4	Theor.	3.4	Amplitude	24.522 +/- 0.084	Search (2048X8)	24.436	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	39.1		5.9	Interp.	0.000			Inc. seg. avg.	33.421	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0		0.2	Inc. seg. avg.	33.421			Inc. frq. avg.	24.521	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0		0.3							Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
										Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		
										nlags:	512	t_cohere	infinite		

B: az 247.2 el 37.9 pa 37.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bi.W.18.0QR3WR

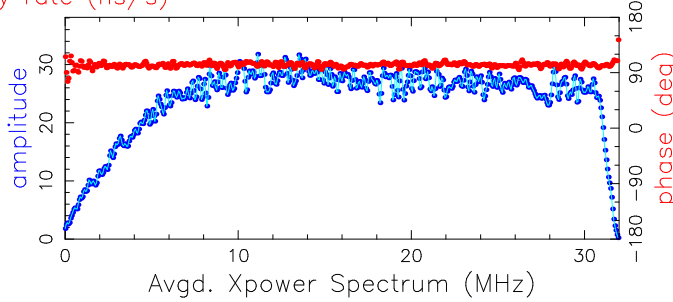


Fringe quality 6

SNR 315.2
Int time 299.796
Amp 26.633
Phase 240.6
PFD 0.0e+00
Delays (us)
SBD -0.049695
MBD 0.000004
Fringe rate (Hz)
0.019174
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



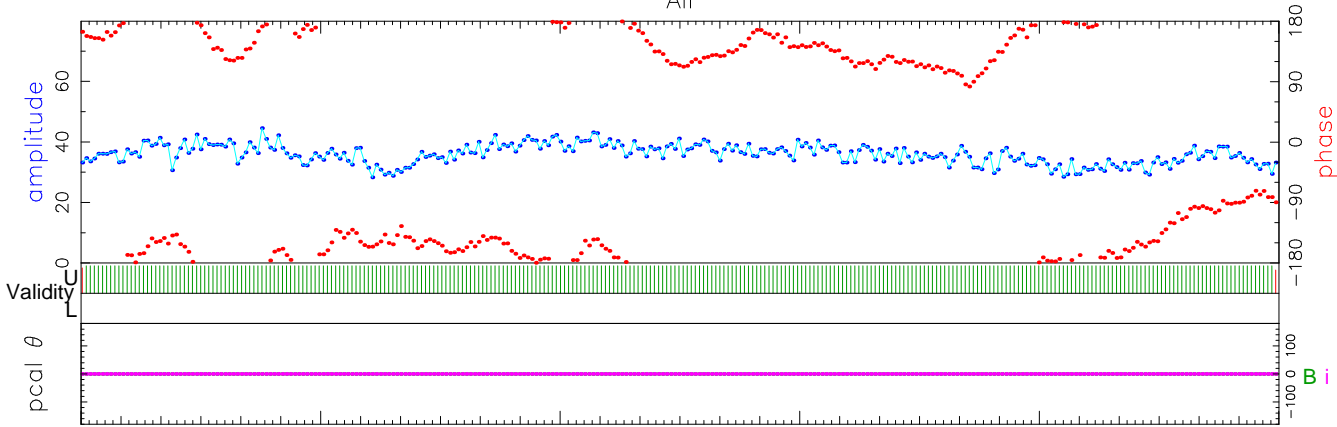
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
175.6
26.3
506.6
U/L 586/0
B 0
i 0
B:i 0:0
B:i 0:0
B 1000
i 1000
B W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.16779243975E+03	Apriori delay (usec)	-3.16774274808E+03	Resid mbdelay (usec)	4.40481E-06	+/-	5.5E-05
Sband delay (usec)	-3.16779244258E+03	Apriori clock (usec)	2.0462181E+01	Resid sbdelay (usec)	-4.96945E-02	+/-	5.5E-05
Phase delay (usec)	-3.16774274242E+03	Apriori clockrate (us/s)	5.3000000E-08	Resid phdelay (usec)	5.66318E-06	+/-	1.2E-08
Delay rate (us/s)	3.44394127775E-02	Apriori rate (us/s)	3.44391901913E-02	Resid rate (us/s)	2.22586E-07	+/-	6.8E-11
Total phase (deg)	125.5	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	240.6	+/-	0.4

ph/seg (deg)	45.1	RMS	3.1	Theor.	3.1	Amplitude	26.633 +/- 0.084	Search (2048X8)	26.275	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	37.2	Interp.	0.000	Inc. seg. avg.	35.935	Inc. frq. avg.	26.348	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000	
ph/frq (deg)	0.0	Inc. seg. avg.	35.935	Inc. frq. avg.	26.348	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000	
amp/frq (%)	1.1	Inc. frq. avg.	26.348	u, v (fr/asec)	-176.511 1949.312	Sample rate (MSamp/s):	64	Data rate (Mb/s):	128	nlags:	512	t_cohere	infinite

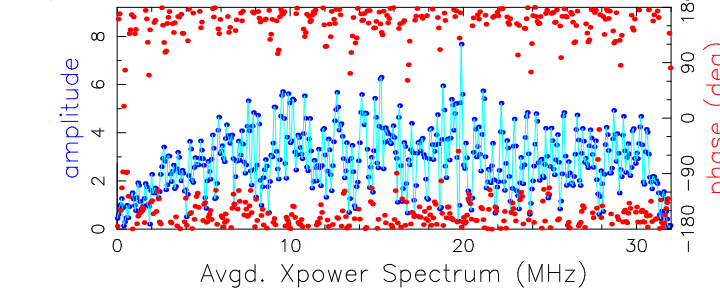
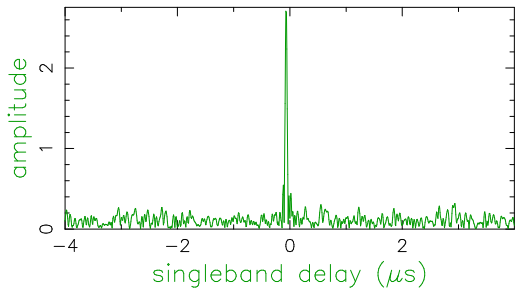
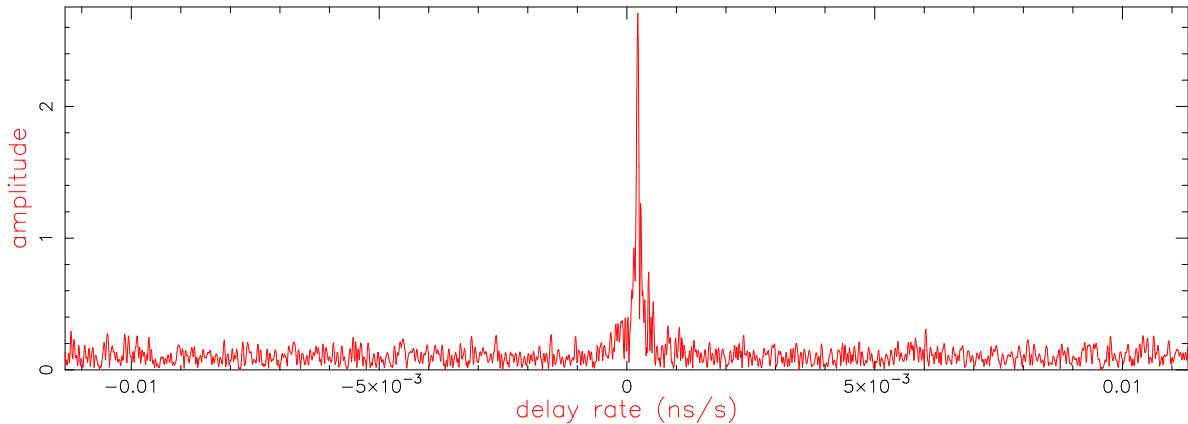
B: az 247.2 el 37.9 pa 37.6 i: az 249.4 el 49.9 pa 50.9 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bi.W.2.0QR3WR

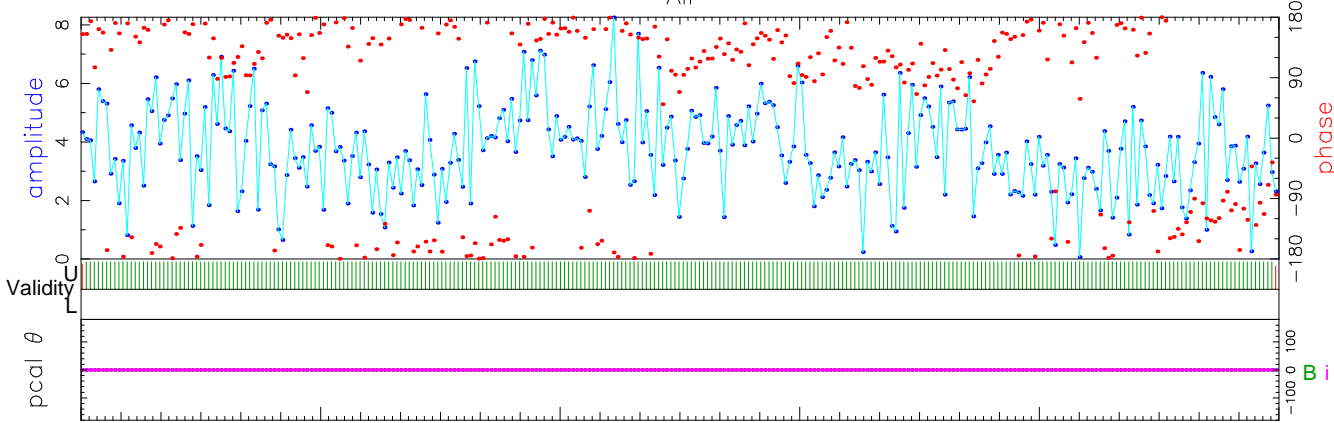
Fringe quality 9

SNR 32.6
Int time 299.796
Amp 2.755
Phase 254.1
PFD 0.0e+00
Delays (us)
SBD -0.066733
MBD 0.000005
Fringe rate (Hz)
0.019231
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



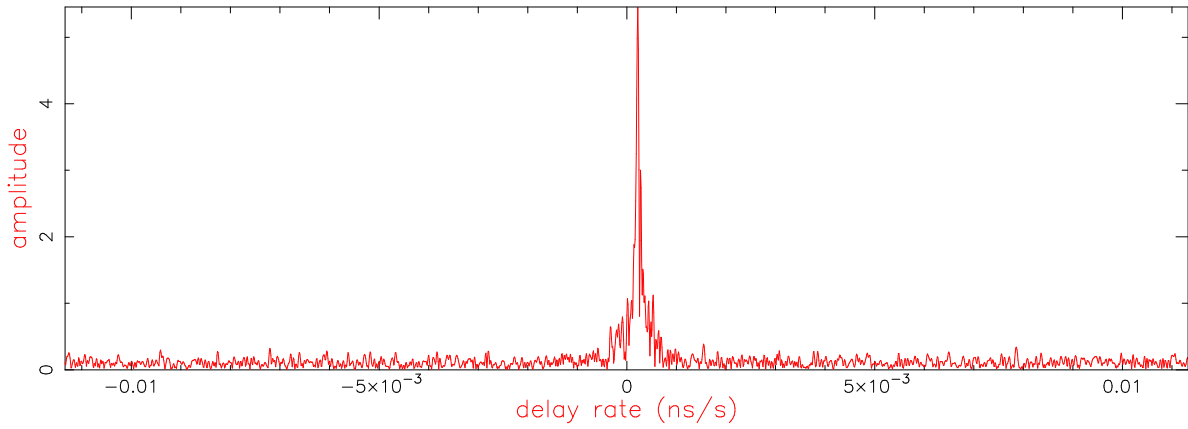
86204.00
156.5
2.7
504.5
U/L 586/0
B 0
i 0
B:i 0:0
B:i 0:0
B 1000
i 1000
B W06UL
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

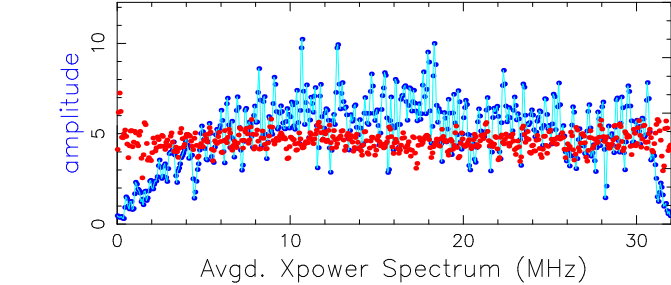
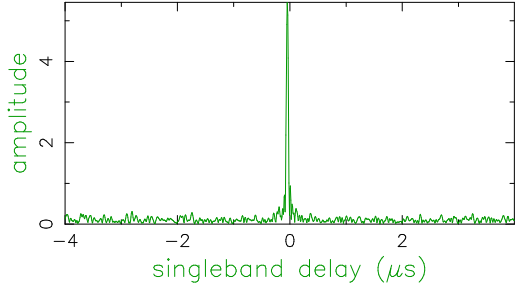
Group delay (usec)(sbd)	-3.16780948045E+03	Apriori delay (usec)	-3.16774274808E+03	Resid mbdelay (usec)	4.67319E-06	+/-	5.3E-04
Sband delay (usec)	-3.16780948058E+03	Apriori clock (usec)	2.0462181E+01	Resid sbdelay (usec)	-6.67325E-02	+/-	5.3E-04
Phase delay (usec)	-3.16774274303E+03	Apriori clockrate (us/s)	5.3000000E-08	Resid phdelay (usec)	5.04729E-06	+/-	1.1E-07
Delay rate (us/s)	3.44394134464E-02	Apriori rate (us/s)	3.44391901913E-02	Resid rate (us/s)	2.23255E-07	+/-	6.5E-10
Total phase (deg)	139.0	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	254.1	+/-	3.5

ph/seg (deg)	49.2	30.1	Search (2048X8)	2.696	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	65.5	52.5	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	1.8	Inc. seg. avg.	3.311	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.8	3.1	Inc. frq. avg.	2.706	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

B: az 247.2 el 37.9 pa 37.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bi.W.31.0QR3WR

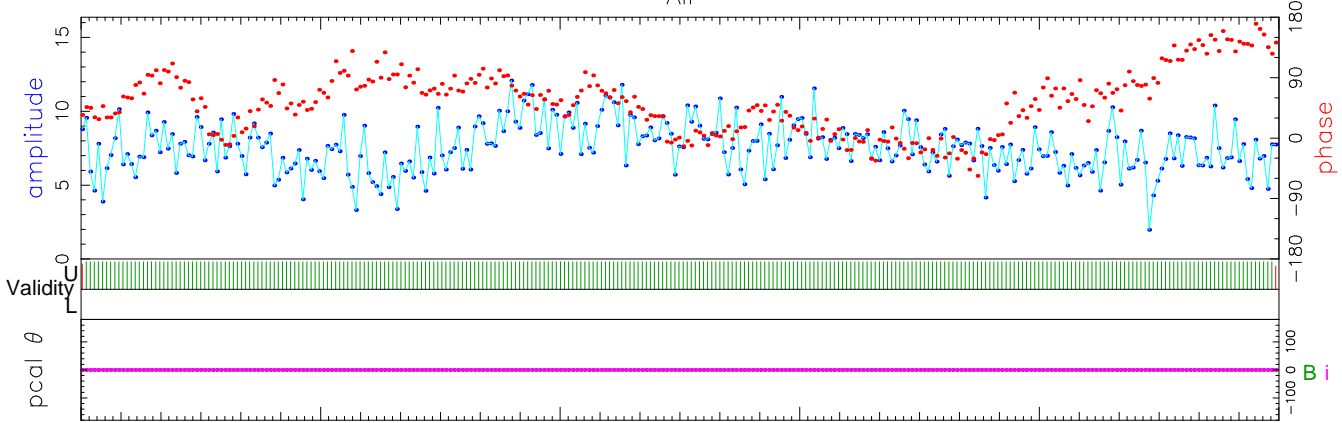


Fringe quality 9
SNR 64.6
Int time 299.796
Amp 5.455
Phase 25.2
PFD 0.0e+00
Delays (us)
SBD -0.045754
MBD 0.000005
Fringe rate (Hz)
0.019165
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



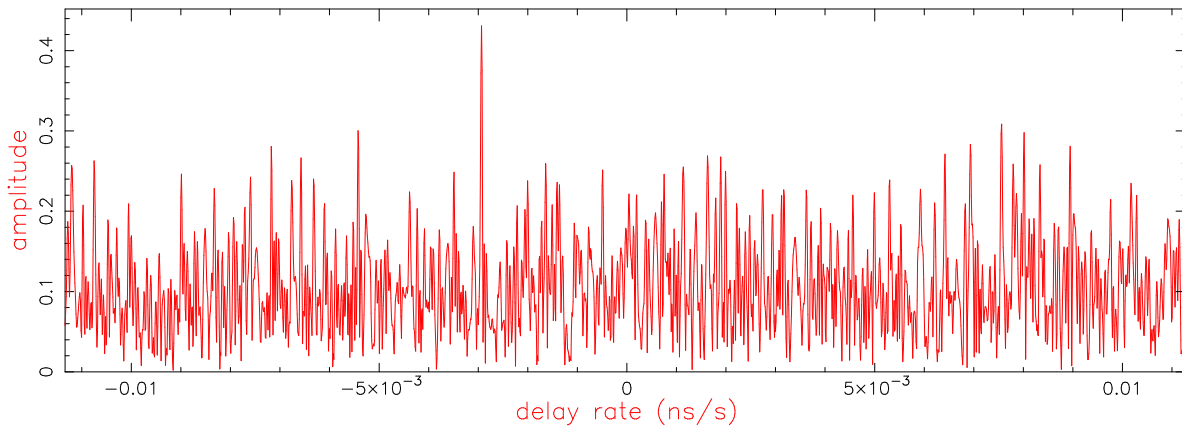
86204.00
50.8
5.4
507.1
U/L 586/0
B 0
i 0
B:i 0:0
B:i 0:0
B 1000
i 1000
B W06UR
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.16778850687E+03	Apriori delay (usec)	-3.16774274808E+03	Resid mbdelay (usec)	4.75430E-06	+/-	2.7E-04
Sband delay (usec)	-3.16778850258E+03	Apriori clock (usec)	2.0462181E+01	Resid sbdelay (usec)	-4.57545E-02	+/-	2.7E-04
Phase delay (usec)	-3.16774274644E+03	Apriori clockrate (us/s)	5.3000000E-08	Resid phdelay (usec)	1.63975E-06	+/-	5.7E-08
Delay rate (us/s)	3.44394126819E-02	Apriori rate (us/s)	3.44391901913E-02	Resid rate (us/s)	2.22491E-07	+/-	3.3E-10
Total phase (deg)	270.1	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	25.2	+/-	1.8

ph/seg (deg)	46.2	Theor.	15.2	Amplitude	5.455 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	49.2	Search (2048X8)	5.432	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	7.302	Inc. seg. avg.	7.302	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	5.446	Inc. frq. avg.	5.446	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

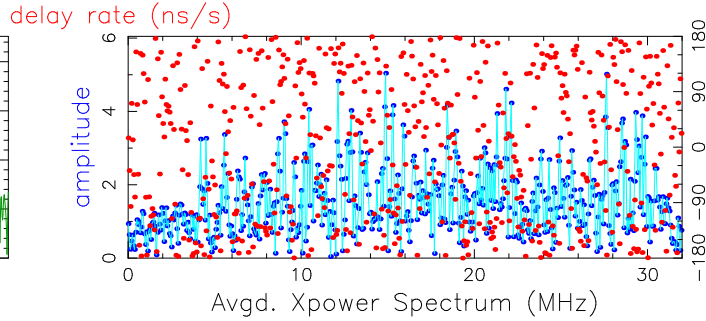
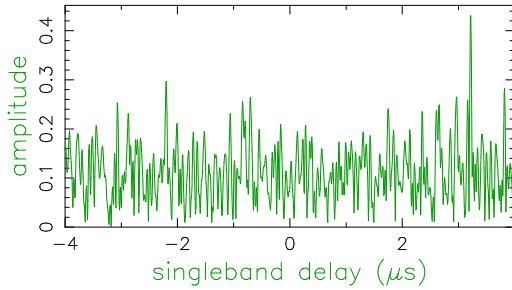
B: az 247.2 el 37.9 pa 37.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bi.W.44.0QR3WR



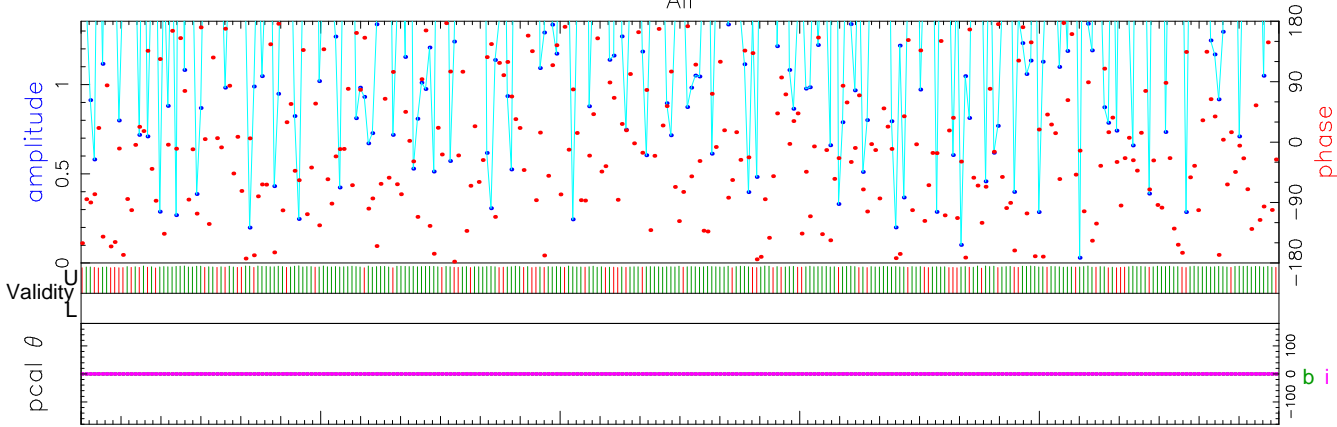
Fringe quality 0

SNR 5.1
Int time 288.499
Amp 0.452
Phase -328.8
PFD 1.0e+00
Delays (us)
SBD 3.215212
MBD -0.000004
Fringe rate (Hz)
-0.252831
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-50.1
0.4
924.6
U/L 586/0
b 1000
i 0
b:i 0:0
b:i 0:0
b 1000
i 1000
b W06UR
i W06UR

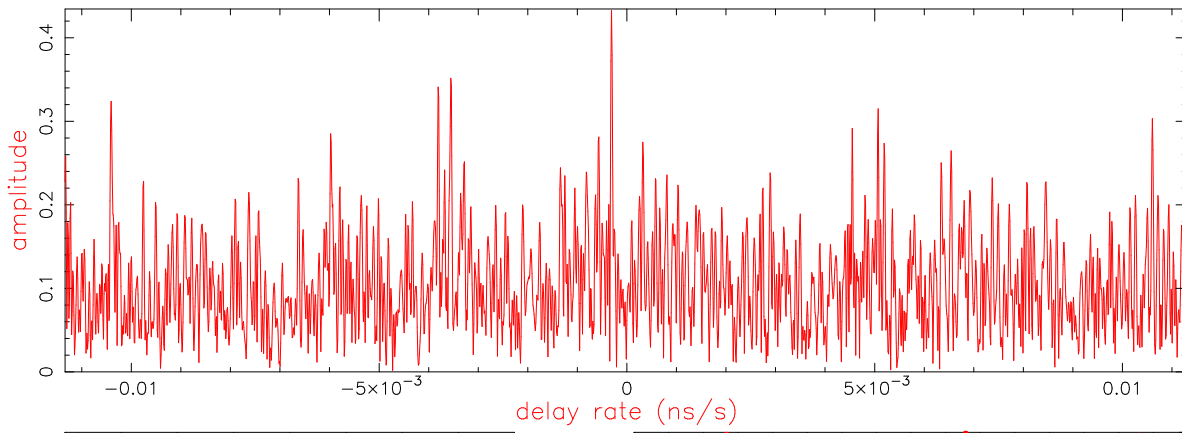
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	-8.48437405790E+03	Apriori delay (usec)	-8.48758927558E+03	Resid mbdelay (usec)	-4.35082E-06	+/-	3.4E-03
Sband delay (usec)	-8.48437406358E+03	Apriori clock (usec)	1.6527655E+01	Resid sbdelay (usec)	3.21521E+00	+/-	3.4E-03
Phase delay (usec)	-8.48758927719E+03	Apriori clockrate (us/s)	4.7999999E-07	Resid phdelay (usec)	-1.61626E-06	+/-	7.2E-07
Delay rate (us/s)	1.73066258644E+00	Apriori rate (us/s)	1.73066552155E+00	Resid rate (us/s)	-2.93511E-06	+/-	4.2E-09
Total phase (deg)	-40.2	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	-328.8	+/-	22.4

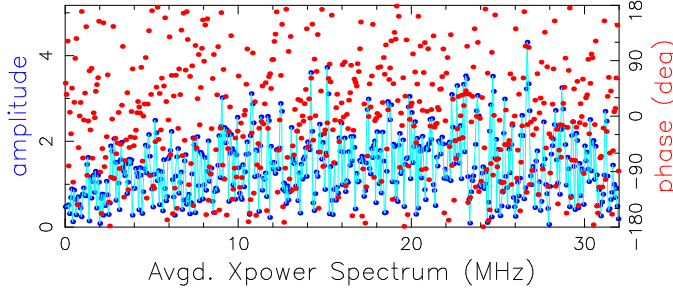
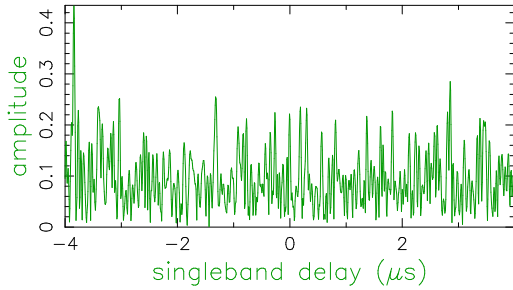
ph/seg (deg)	93.5	Theor.	192.1	Amplitude	0.452 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	374.8	Search (2048X8)	0.428	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.271	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	2.0	Inc. frq. avg.	0.435	Inc. frq. avg.	0.435	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

b: az 88.2 el 20.4 pa -44.0 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10258.837 2393.250 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bi.W.56.0QR3WR



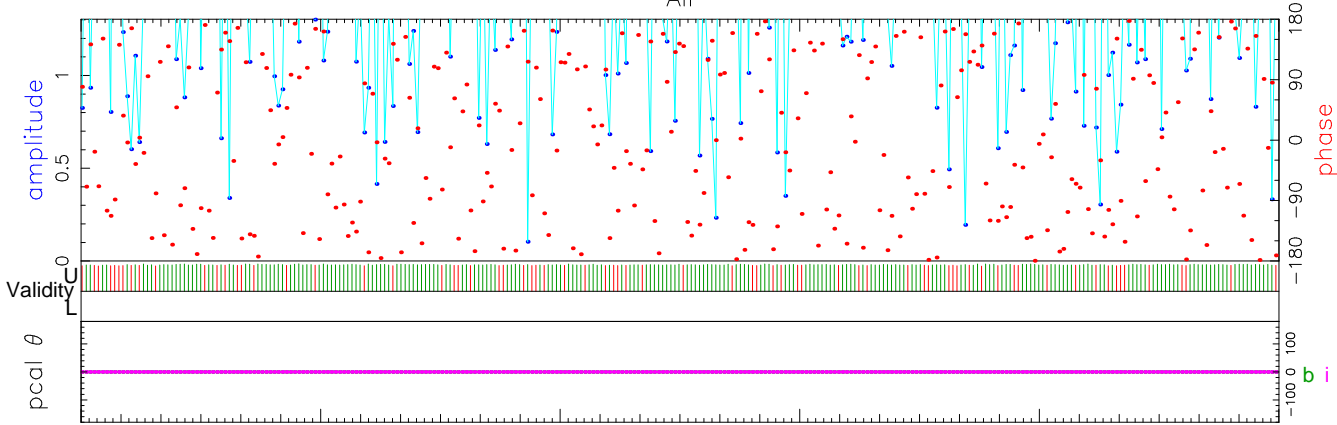
Fringe quality 0

SNR 5.0
Int time 288.498
Amp 0.435
Phase 154.4
PFD 1.0e+00
Delays (us)
SBD -3.842165
MBD -0.000007
Fringe rate (Hz)
-0.026851
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174158
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



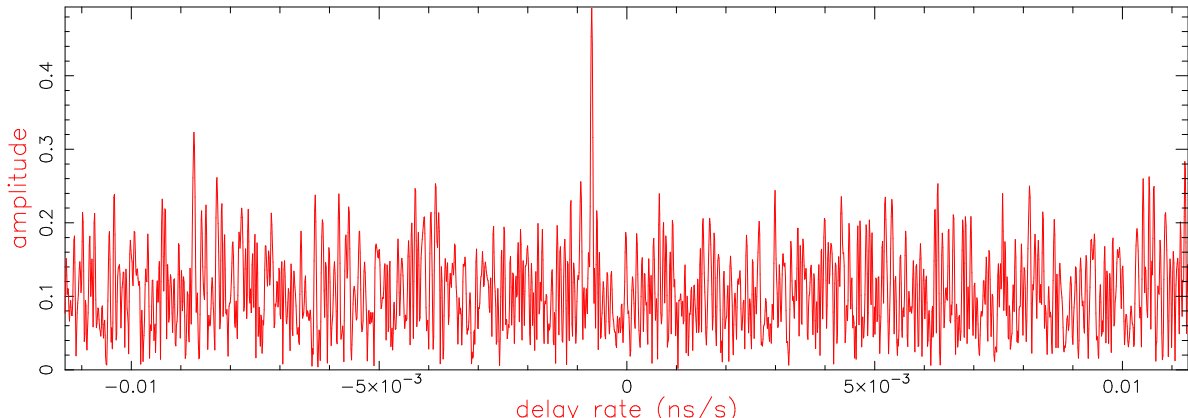
86204.00
-168.9
0.4
21.2
U/L 586/0
b 1000
i 0
b:i 0:0
b:i 0:0
b 1000
i 1000
b W06UL
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

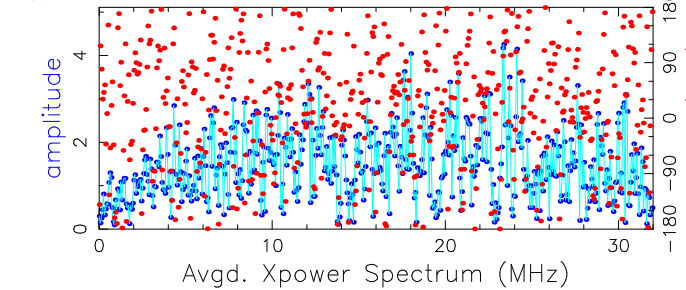
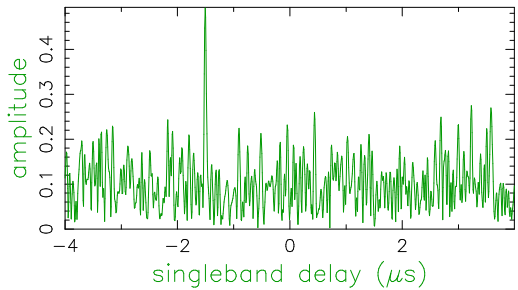
Group delay (usec)(sbd)	-8.49143143626E+03	Apriori delay (usec)	-8.48758927558E+03	Resid mbdelay (usec)	-7.18459E-06	+/-	3.4E-03
Sband delay (usec)	-8.49143144008E+03	Apriori clock (usec)	1.6527655E+01	Resid sbdelay (usec)	-3.84216E+00	+/-	3.4E-03
Phase delay (usec)	-8.48758928102E+03	Apriori clockrate (us/s)	4.7999999E-07	Resid phdelay (usec)	-5.44498E-06	+/-	7.3E-07
Delay rate (us/s)	1.73066520983E+00	Apriori rate (us/s)	1.73066552155E+00	Resid rate (us/s)	-3.11715E-07	+/-	4.2E-09
Total phase (deg)	83.0	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	154.4	+/-	22.7

ph/seg (deg)	RMS 91.5	Theor. 194.4	Amplitude Search (2048X8) 0.435 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	400.8	339.3	Interp. 0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000		
ph/frq (deg)	0.0	11.4	Inc. seg. avg. 0.279	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	0.4	19.8	Inc. frq. avg. 0.425	Sample rate(MSamp/s): 64	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	dr window (ns/s) -0.011 0.011
b: az 88.2 el 20.4 pa -44.0 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10258.837 2393.250				ion window (TEC) 0.00 0.00			

simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bi.W.71.0QR3WR



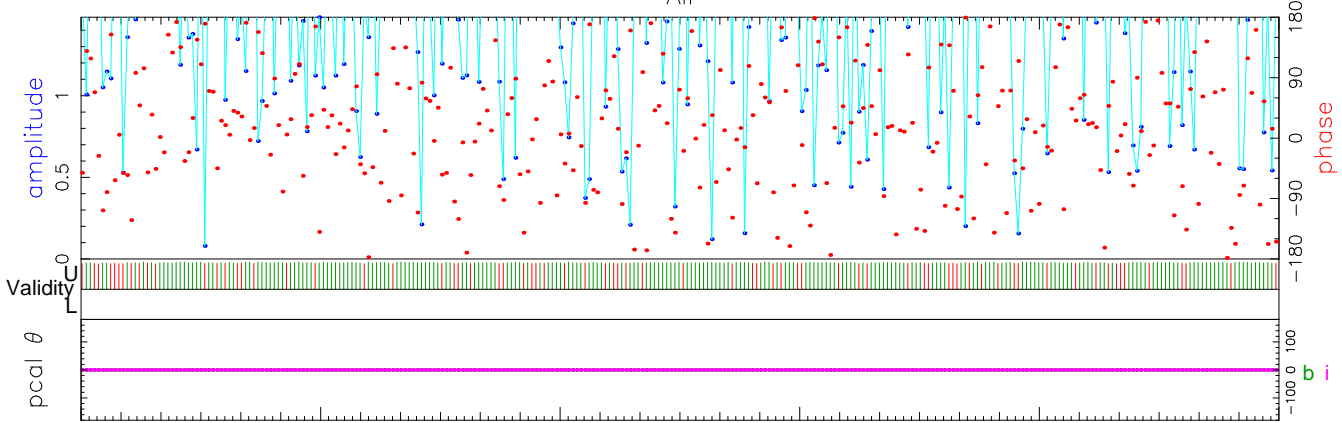
Fringe quality 0
SNR 5.7
Int time 288.499
Amp 0.494
Phase 167.9
PFD 7.3e-01
Delays (us)
SBD -1.506490
MBD -0.000005
Fringe rate (Hz)
-0.061446
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



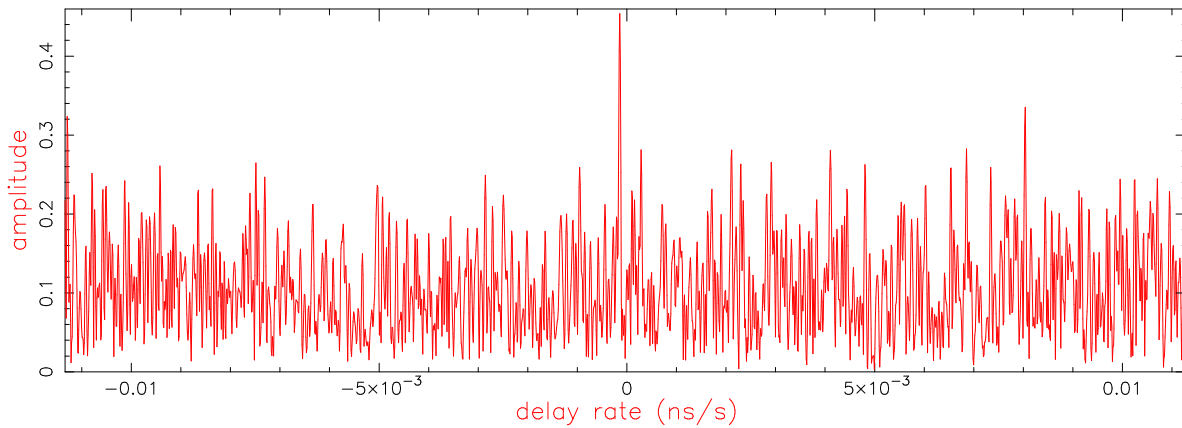
86204.00
18.5
0.5
320.2
U/L 586/0
b 1000
i 0
b:i 0:0
b:i 0:0
b 1000
i 1000
b W06UR
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.48909576494E+03	Apriori delay (usec)	-8.48758927558E+03	Resid mbdelay (usec)	-4.74512E-06	+/-	3.0E-03
Sband delay (usec)	-8.48909576508E+03	Apriori clock (usec)	1.6527655E+01	Resid sbdelay (usec)	-1.50649E+00	+/-	3.0E-03
Phase delay (usec)	-8.48758927498E+03	Apriori clockrate (us/s)	4.7999999E-07	Resid phdelay (usec)	5.95943E-07	+/-	6.5E-07
Delay rate (us/s)	1.73066480822E+00	Apriori rate (us/s)	1.73066552155E+00	Resid rate (us/s)	-7.13326E-07	+/-	3.7E-09
Total phase (deg)	96.5	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	167.9	+/-	20.0

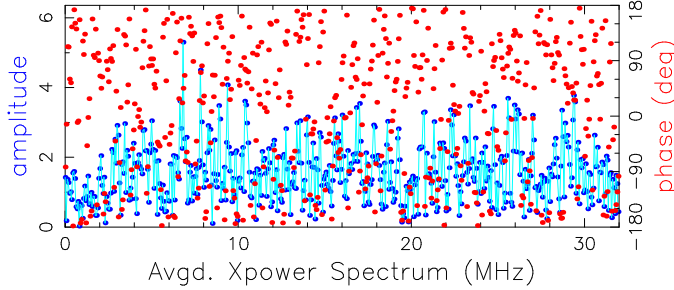
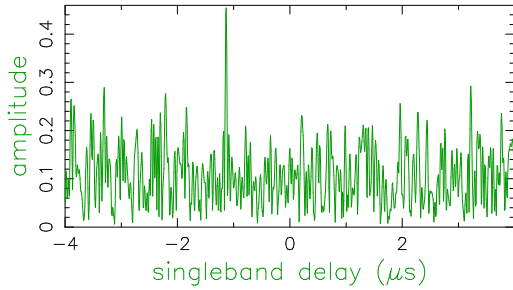
ph/seg (deg)	RMS 89.3	Theor. 171.4	Amplitude 0.494 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	328.4	299.2	Search (2048X8) 0.480	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	10.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.2	17.5	Inc. seg. avg. 0.335	Sample rate(MSamp/s): 64	mb window (us) -0.000 0.000
			Inc. frq. avg. 0.485	Data rate(Mb/s): 128	dr window (ns/s) -0.011 0.011
				nlags: 512	t_cohere infinite
					ion window (TEC) 0.00 0.00

b: az 88.2 el 20.4 pa -44.0 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10258.837 2393.250 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bi.W.77.0QR3WR



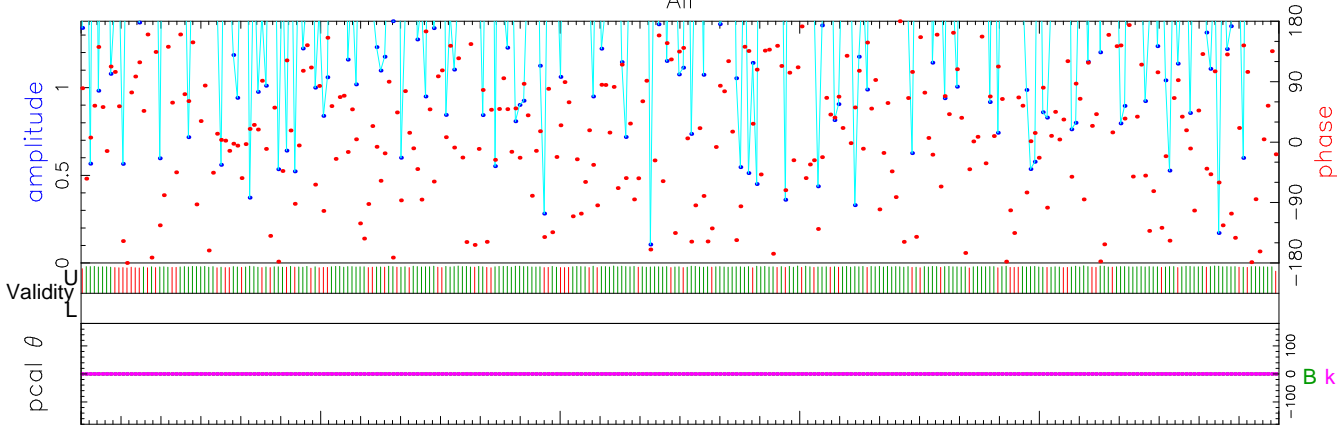
Fringe quality 0

SNR 5.3
Int time 287.683
Amp 0.460
Phase 283.9
PFD 1.0e+00
Delays (us)
SBD -1.135509
MBD -0.000007
Fringe rate (Hz)
-0.012734
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
41.9
0.5
367.7
U/L 586/0
B 0
k 1000
B:k 0:0
B:k 0:0
B 1000
k 1000
B W06UL
k W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

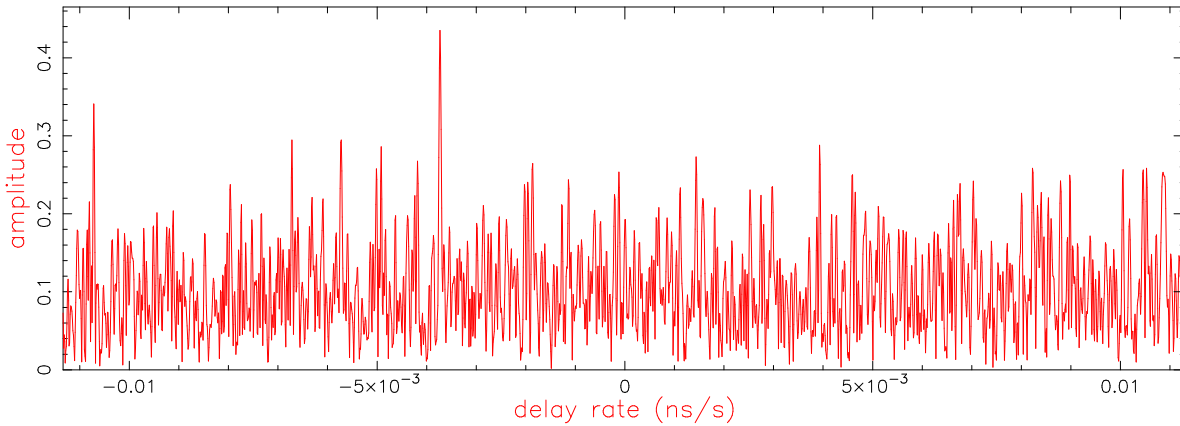
Group delay (usec)(sbd)	3.39710757829E+03	Apriori delay (usec)	3.39824308969E+03	Resid mbdelay (usec)	-7.24194E-06	+/-	3.2E-03
Sband delay (usec)	3.39710758069E+03	Apriori clock (usec)	-3.6343911E+00	Resid sbdelay (usec)	-1.13551E+00	+/-	3.2E-03
Phase delay (usec)	3.39824309104E+03	Apriori clockrate (us/s)	-1.1334000E-07	Resid phdelay (usec)	1.34998E-06	+/-	6.9E-07
Delay rate (us/s)	-1.90433008438E+00	Apriori rate (us/s)	-1.90432993655E+00	Resid rate (us/s)	-1.47829E-07	+/-	4.0E-09
Total phase (deg)	192.3	Apriori accel (us/s/s)	-1.04318891833E-05	Resid phase (deg)	283.9	+/-	21.5

ph/seg (deg)	91.2	Theor.	184.0	Amplitude	0.460 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	370.3	Search (2048X8)	0.445	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.305	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.3	Inc. frq. avg.	0.446	Inc. frq. avg.	0.446	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

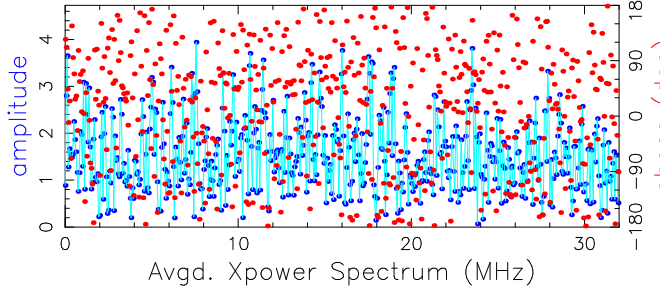
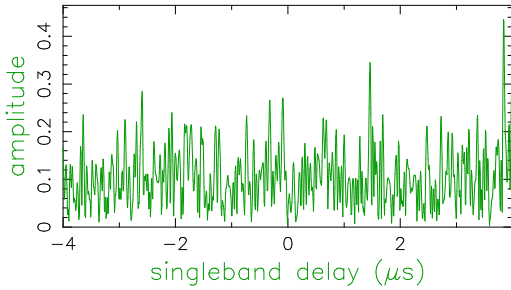
B: az 247.2 el 37.9 pa 37.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 11345.932 1769.976 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bk.W.11.0QR3WR

Fringe quality 0



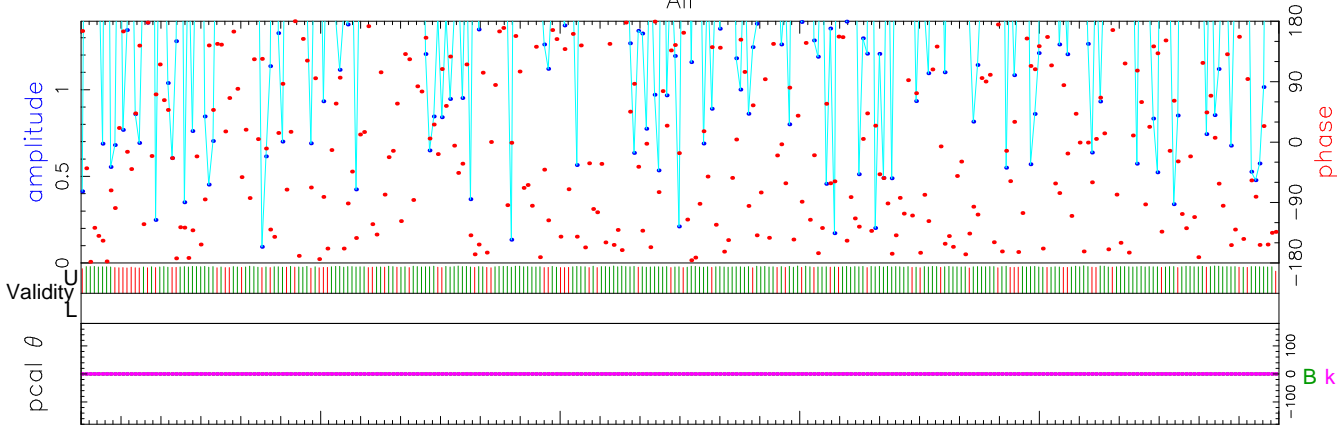
SNR 5.2
 Int time 287.688
 Amp 0.465
 Phase -49.1
 PFD 1.0e+00
 Delays (us)
 SBD 3.839438
 MBD -0.000006
 Fringe rate (Hz)
 -0.321413
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174153
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -148.4
 0.5
 1004.5
 U/L 586/0
 B 0
 k 1000
 B:k 0:0
 B:k 0:0
 B 1000
 k 1000
 B W06UR
 k W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.40208252256E+03	Apriori delay (usec)	3.39824308969E+03	Resid mbdelay (usec)	-6.13623E-06	+/-	3.3E-03
Sband delay (usec)	3.40208252769E+03	Apriori clock (usec)	-3.6343911E+00	Resid sbdelay (usec)	3.83944E+00	+/-	3.3E-03
Phase delay (usec)	3.39824308490E+03	Apriori clockrate (us/s)	-1.1334000E-07	Resid phdelay (usec)	-4.78704E-06	+/-	7.2E-07
Delay rate (us/s)	-1.90433366783E+00	Apriori rate (us/s)	-1.90432993655E+00	Resid rate (us/s)	-3.73129E-06	+/-	4.1E-09
Total phase (deg)	-140.7	Apriori accel (us/s/s)	-1.04318891833E-05	Resid phase (deg)	-49.1	+/-	22.2

ph/seg (deg)	94.0	Theor.	190.2	Amplitude	0.465 +/- 0.090	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	373.8	RMS	332.0	Search (2048X8)	0.435	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	11.1	Inc. seg. avg.	0.292	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	2.1	Inc. frq. avg.	19.4	Inc. frq. avg.	0.447	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

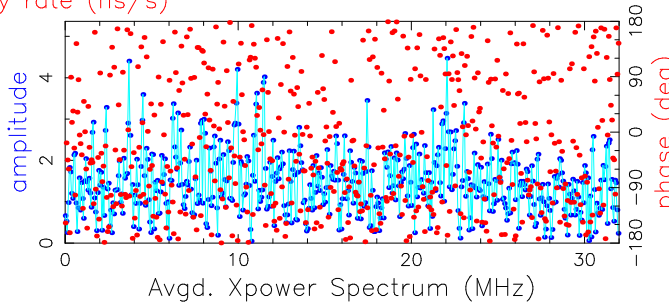
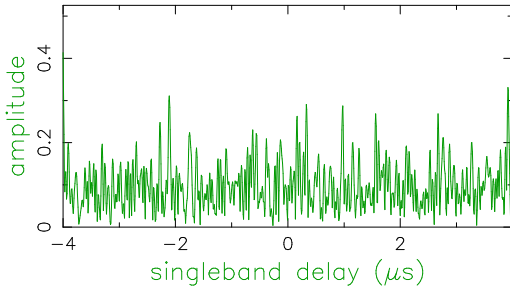
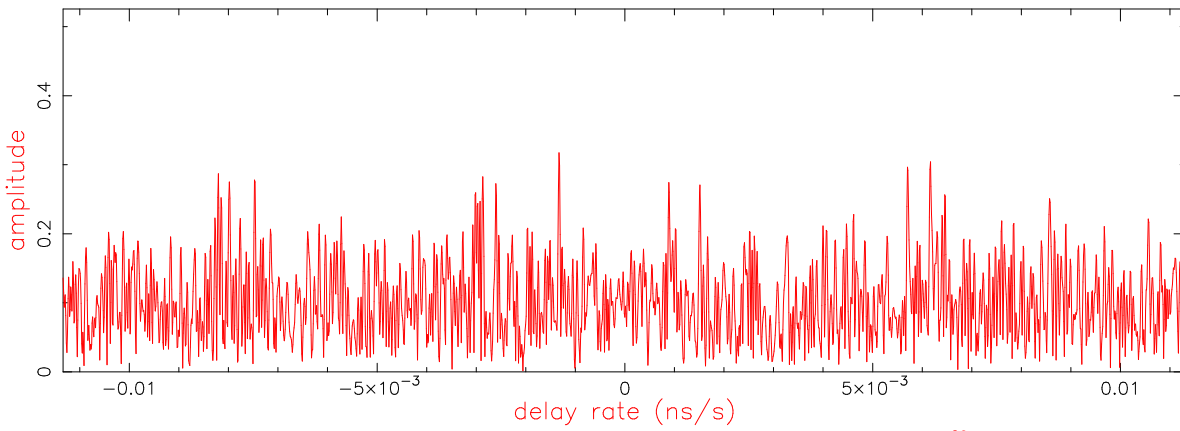
B: az 247.2 el 37.9 pa 37.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 11345.932 1769.976 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bk.W.23.0QR3WR

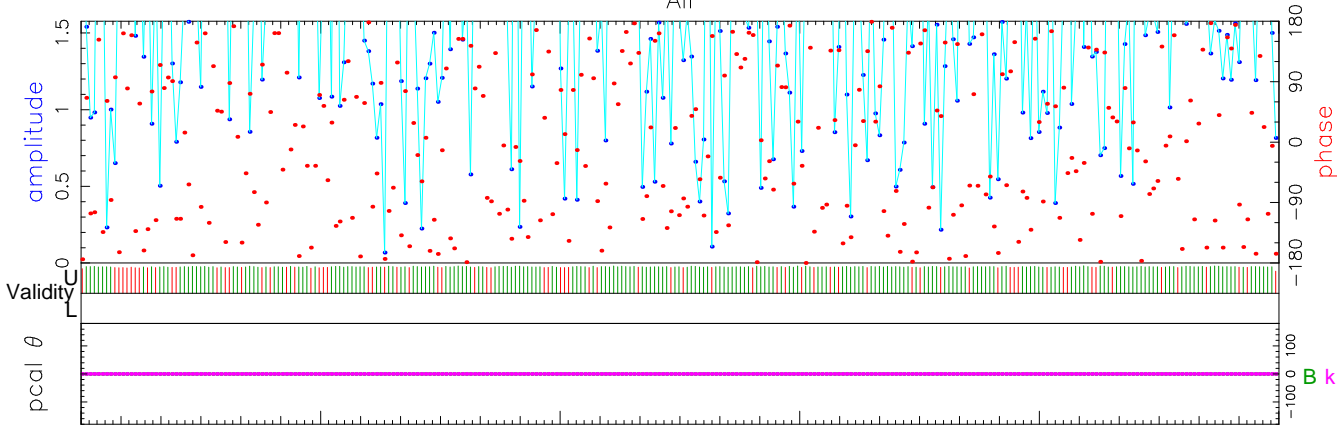
Fringe quality 0

SNR 5.1
Int time 287.688
Amp 0.526
Phase -12.8
PFD 1.0e+00
Delays (us)
SBD 3.993101
MBD -0.000005
Fringe rate (Hz)
-0.642796
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-171.5
0.3
1023.6
U/L 586/0
B 0
k 1000
B:k 0:0
B:k 0:0
B 1000
k 1000
B W06UL
k W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.40223619428E+03	Apriori delay (usec)	3.39824308969E+03	Resid mbdelay (usec)	-4.78066E-06	+/-	3.4E-03
Sband delay (usec)	3.40223619094E+03	Apriori clock (usec)	-3.6343911E+00	Resid sbdelay (usec)	3.99310E+00	+/-	3.4E-03
Phase delay (usec)	3.39824308416E+03	Apriori clockrate (us/s)	-1.1334000E-07	Resid phdelay (usec)	-5.53100E-06	+/-	7.3E-07
Delay rate (us/s)	-1.90433739878E+00	Apriori rate (us/s)	-1.90432993655E+00	Resid rate (us/s)	-7.46223E-06	+/-	4.2E-09
Total phase (deg)	-104.3	Apriori accel (us/s/s)	-1.04318891833E-05	Resid phase (deg)	-12.8	+/-	22.6

ph/seg (deg)	95.4	Theor.	193.6	Amplitude	0.526 +/- 0.104	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	377.8	Search (2048X8)	0.436	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.323	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	36.4	Inc. frq. avg.	0.328	Inc. frq. avg.	0.328	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

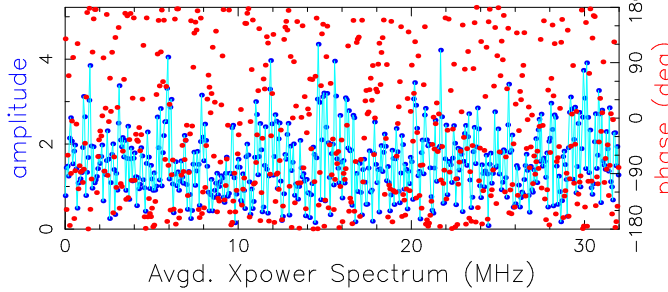
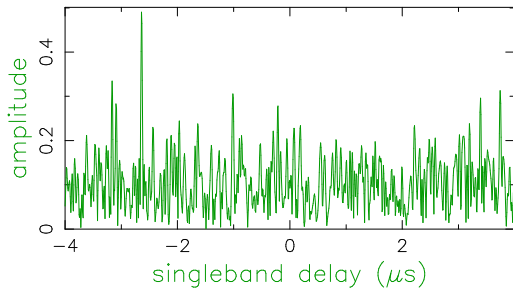
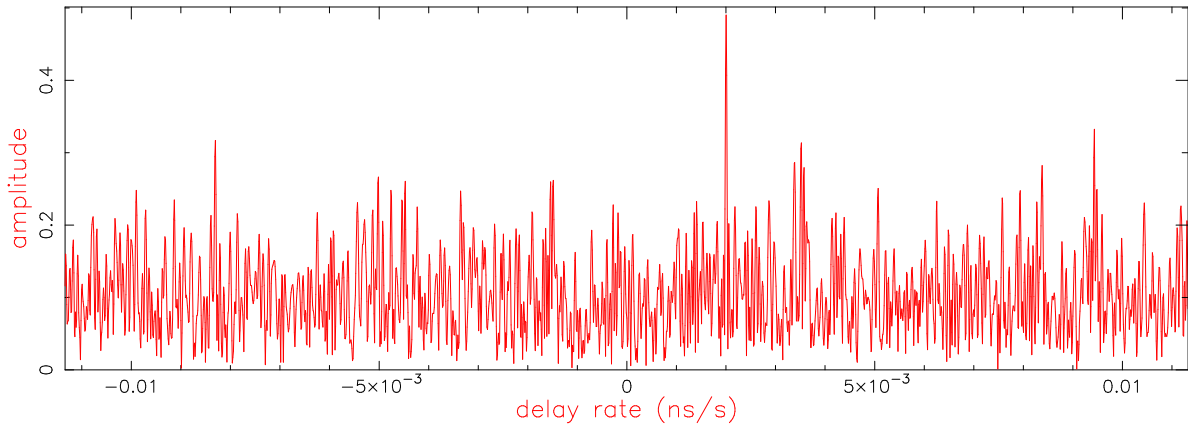
B: az 247.2 el 37.9 pa 37.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 11345.932 1769.976 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bk.W.36.0QR3WR

Fringe quality 0

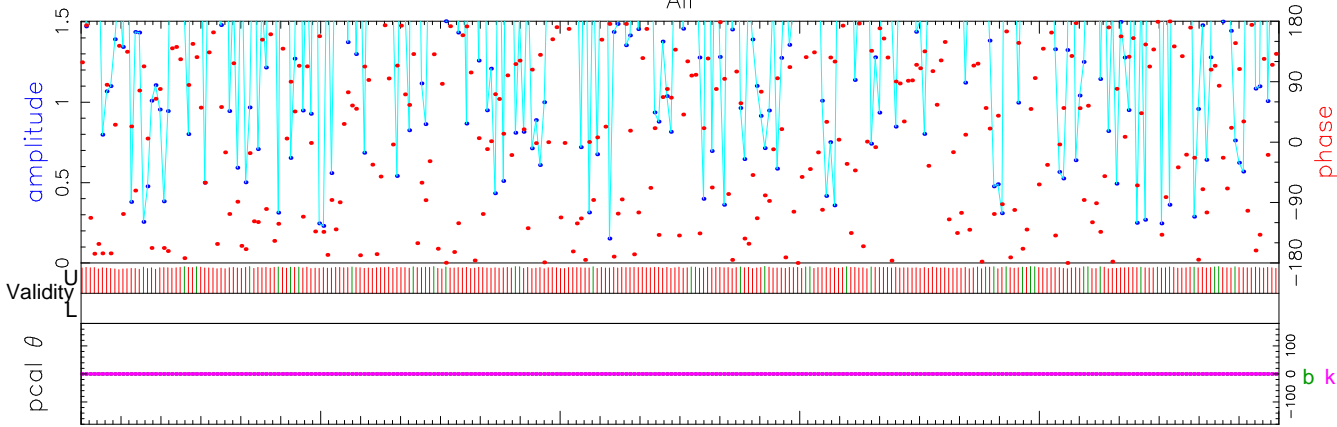
SNR 5.7
Int time 278.924
Amp 0.501
Phase 101.8
PFD 8.6e-01
Delays (us)
SBD -2.638431
MBD 0.000006
Fringe rate (Hz)
0.172846
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
152.2
0.5
175.3
U/L 586/0
b 1000
k 1000
b:k 0:0
b:k 0:0
b 1000
k 1000
b W06UL
k W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.92424187057E+03	Apriori delay (usec)	-1.92160343781E+03	Resid mbdelay (usec)	6.29270E-06	+/-	3.0E-03
Sband delay (usec)	-1.92424186831E+03	Apriori clock (usec)	-7.5689182E+00	Resid sbdelay (usec)	-2.63843E+00	+/-	3.0E-03
Phase delay (usec)	-1.92160343290E+03	Apriori clockrate (us/s)	3.1365999E-07	Resid phdelay (usec)	4.90732E-06	+/-	6.5E-07
Delay rate (us/s)	-2.08101598621E-01	Apriori rate (us/s)	-2.08103605189E-01	Resid rate (us/s)	2.00657E-06	+/-	3.8E-09
Total phase (deg)	54.0	Apriori accel (us/s/s)	1.69734346702E-05	Resid phase (deg)	101.8	+/-	20.3

ph/seg (deg)	91.0	Theor.	173.6	Amplitude	0.501 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	338.7	Search (2048X8)	0.483	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.328	Inc. seg. avg.	0.328	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.9	Inc. frq. avg.	0.489	Inc. frq. avg.	0.489	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

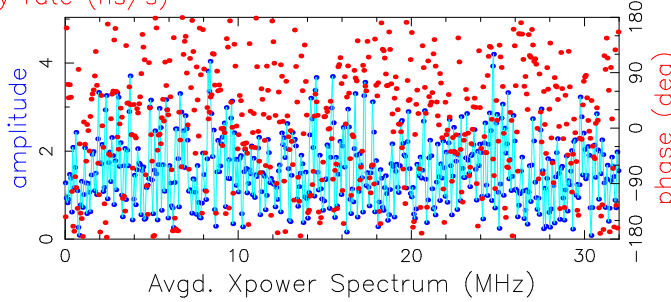
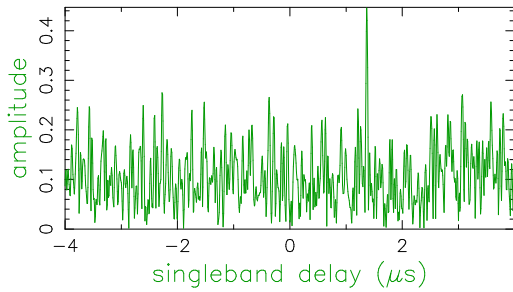
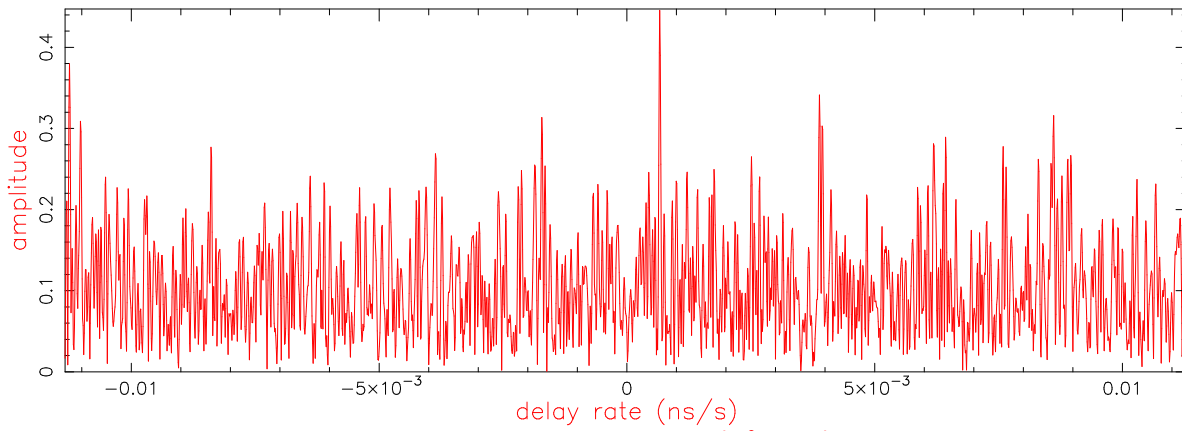
b: az 88.2 el 20.4 pa -44.0 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 1263.606 2213.914 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bk.W.39.0QR3WR

Fringe quality 0

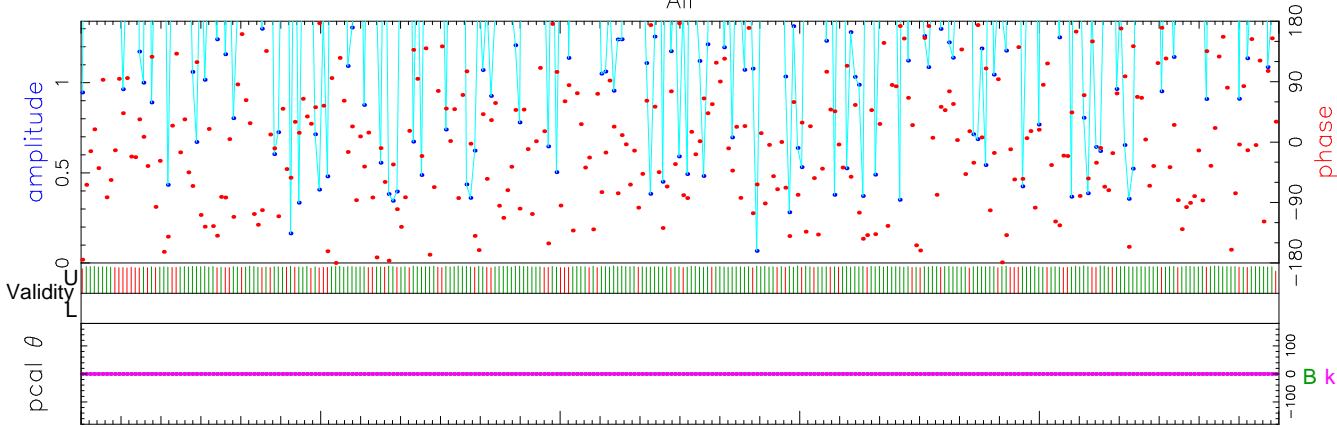
SNR 5.2
Int time 287.683
Amp 0.447
Phase -217.4
PFD 1.0e+00
Delays (us)
SBD 1.368438
MBD 0.000005
Fringe rate (Hz)
0.057270
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-8.8
0.4
688.2
U/L 586/0
B 0
k 1000
B:k 0:0
B:k 0:0
B 1000
k 1000
B W06UR
k W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.39961152282E+03	Apriori delay (usec)	3.39824308969E+03	Resid mbdelay (usec)	4.74948E-06	+/-	3.3E-03
Sband delay (usec)	3.39961152719E+03	Apriori clock (usec)	-3.6343911E+00	Resid sbdelay (usec)	1.36844E+00	+/-	3.3E-03
Phase delay (usec)	3.39824308940E+03	Apriori clockrate (us/s)	-1.1334000E-07	Resid phdelay (usec)	-2.84930E-07	+/-	7.1E-07
Delay rate (us/s)	-1.90432927170E+00	Apriori rate (us/s)	-1.90432993655E+00	Resid rate (us/s)	6.64849E-07	+/-	4.1E-09
Total phase (deg)	-309.0	Apriori accel (us/s/s)	-1.04318891833E-05	Resid phase (deg)	-217.4	+/-	22.1

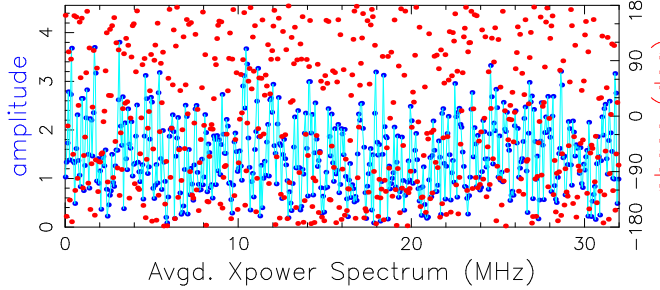
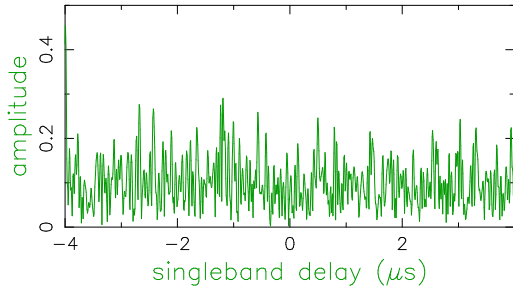
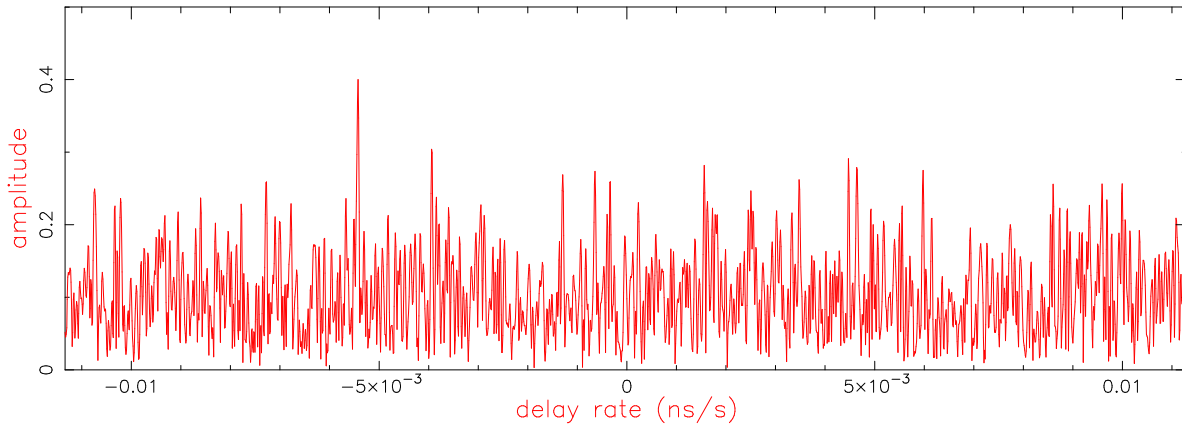
ph/seg (deg)	90.9	Theor.	189.4	Amplitude	0.447 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	375.8	Search (2048X8)	0.444	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.281	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.438	Inc. frq. avg.	0.438	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 11345.932 1769.976 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bk.W.54.0QR3WR

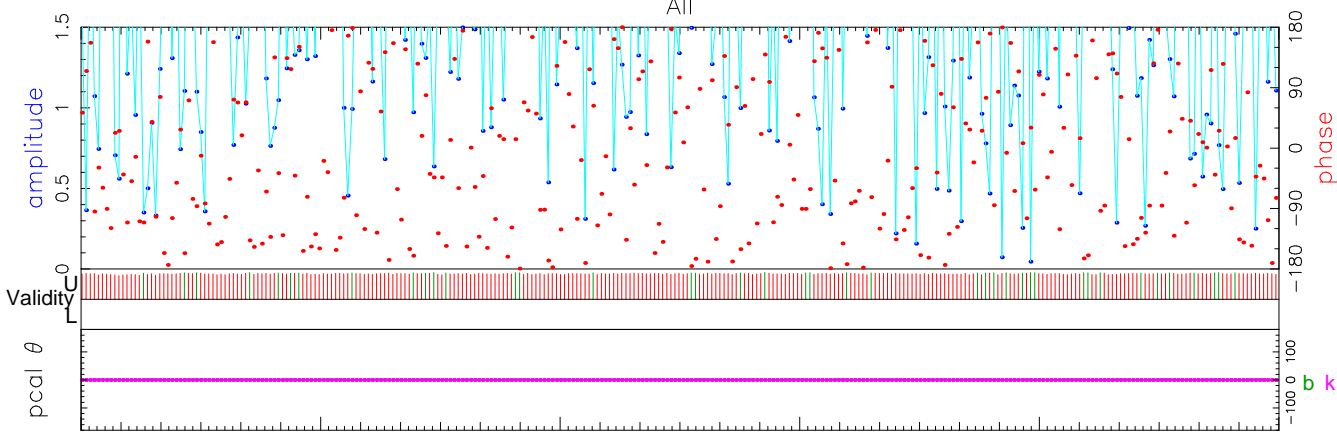
Fringe quality 0

SNR 5.2
Int time 278.929
Amp 0.500
Phase 66.3
PFD 1.0e+00
Delays (us)
SBD -3.992851
MBD -0.000004
Fringe rate (Hz)
-0.467003
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
-128.8
0.4
1.9
U/L 586/0
b 1000
k 1000
b:k 0:0
b:k 0:0
b 1000
k 1000
b W06UR
k W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

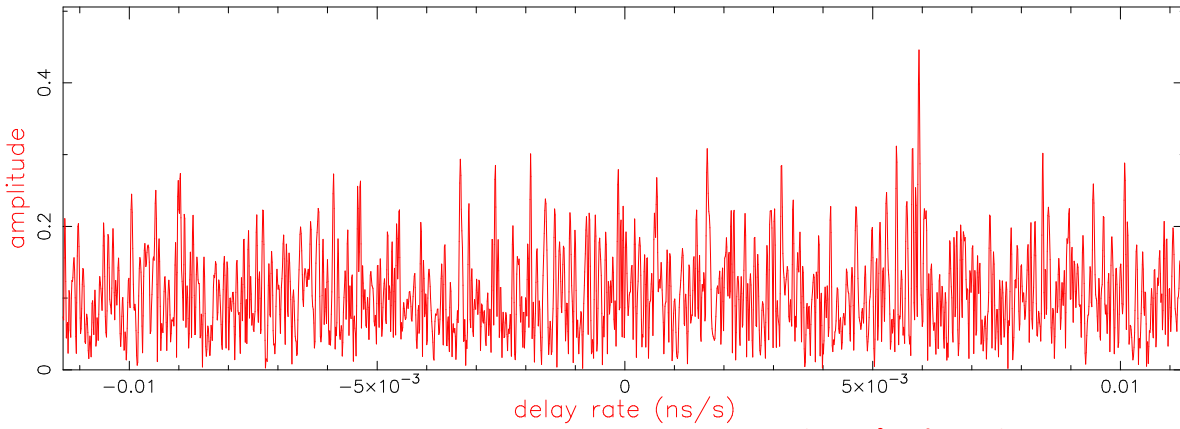
Group delay (usec)(sbd)	-1.92559628473E+03	Apriori delay (usec)	-1.92160343781E+03	Resid mbdelay (usec)	-4.35838E-06	+/-	3.3E-03
Sband delay (usec)	-1.92559628881E+03	Apriori clock (usec)	-7.5689182E+00	Resid sbdelay (usec)	-3.99285E+00	+/-	3.3E-03
Phase delay (usec)	-1.92160344196E+03	Apriori clockrate (us/s)	3.1365999E-07	Resid phdelay (usec)	-4.15462E-06	+/-	7.1E-07
Delay rate (us/s)	-2.08109026628E-01	Apriori rate (us/s)	-2.08103605189E-01	Resid rate (us/s)	-5.42144E-06	+/-	4.1E-09
Total phase (deg)	18.4	Apriori accel (us/s/s)	1.69734346702E-05	Resid phase (deg)	66.3	+/-	22.1

ph/seg (deg)	94.1	RMS	189.0	Theor.	189.0	Amplitude	0.500 +/- 0.096	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	367.6	Search (2048X8)	0.448	Interp.	0.000	Inc. seg. avg.	0.309	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. frq. avg.	0.432	Inc. frq. avg.	0.432	u,v (fr/asec)	1263.606 2213.914	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	12.0	u,v (fr/asec)	1263.606 2213.914	Data rate (Mb/s):	128	nlags:	512	Sample rate (MSamp/s):	64	t_cohere	infinite	dr window (ns/s)	-0.011 0.011

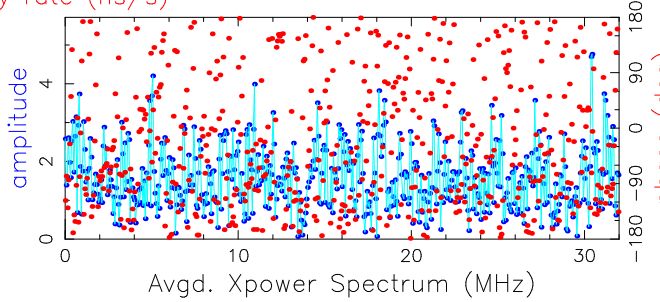
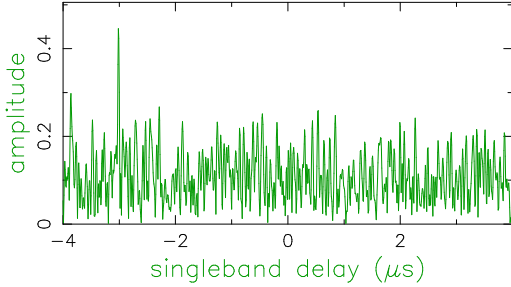
b: az 88.2 el 20.4 pa -44.0 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 1263.606 2213.914 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bk.W.64.0QR3WR

Fringe quality 0



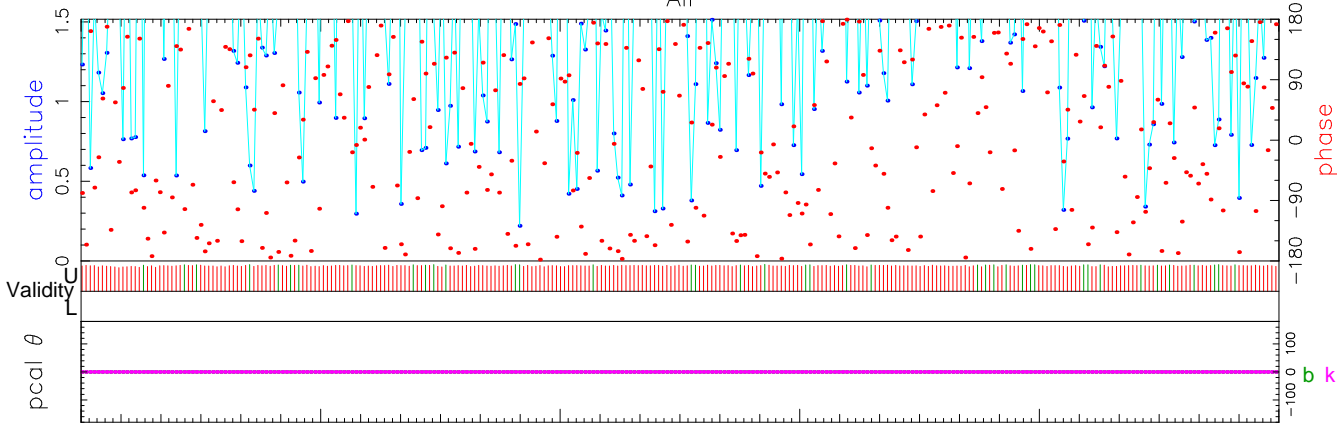
SNR 5.1
 Int time 278.927
 Amp 0.506
 Phase 124.3
 PFD 1.0e+00
 Delays (us)
 SBD -3.013291
 MBD 0.000007
 Fringe rate (Hz)
 0.511216
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174158
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 178.0
 0.5
 127.3
 U/L 586/0
 b 1000
 k 1000
 b:k 0:0
 b:k 0:0
 b 1000
 k 1000
 b W06UL
 k W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

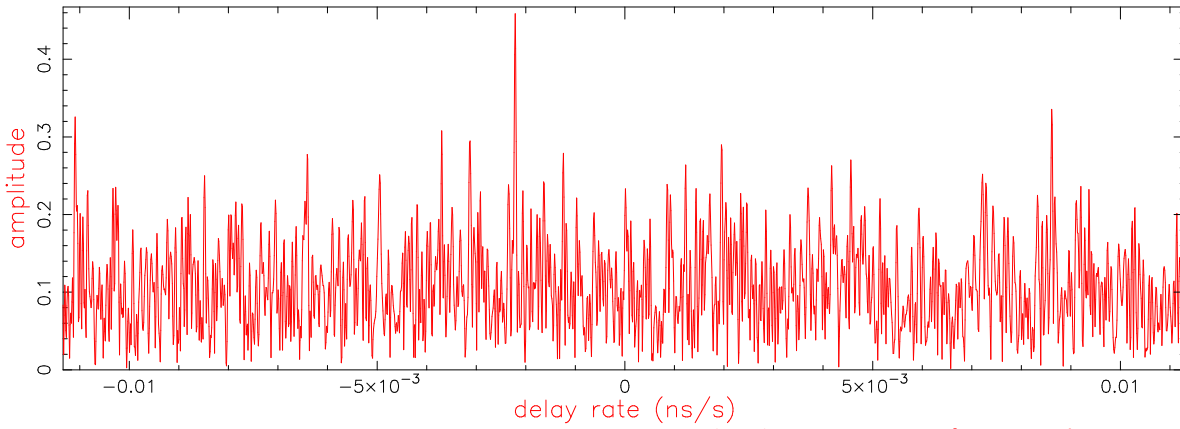
Group delay (usec)(sbd)	-1.92461672533E+03	Apriori delay (usec)	-1.92160343781E+03	Resid mbdelay (usec)	6.52424E-06	+/-	3.3E-03
Sband delay (usec)	-1.92461672881E+03	Apriori clock (usec)	-7.5689182E+00	Resid sbdelay (usec)	-3.01329E+00	+/-	3.3E-03
Phase delay (usec)	-1.92160343207E+03	Apriori clockrate (us/s)	3.1365999E-07	Resid phdelay (usec)	5.74161E-06	+/-	7.2E-07
Delay rate (us/s)	-2.08097670473E-01	Apriori rate (us/s)	-2.08103605189E-01	Resid rate (us/s)	5.93472E-06	+/-	4.1E-09
Total phase (deg)	76.5	Apriori accel (us/s/s)	1.69734346702E-05	Resid phase (deg)	124.3	+/-	22.3

ph/seg (deg)	91.6	Theor.	190.6	Amplitude	0.506 +/- 0.098	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	397.4	Search (2048X8)	0.443	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.333	Inc. seg. avg.	0.333	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.1	Inc. frq. avg.	0.491	Inc. frq. avg.	0.491	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

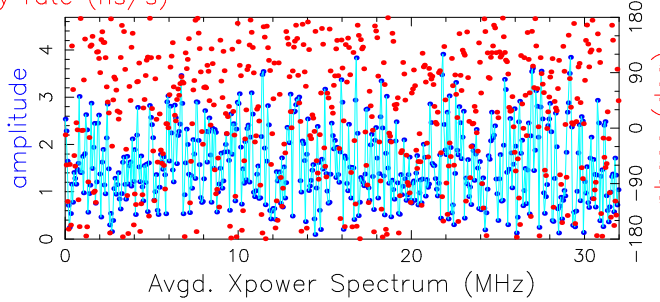
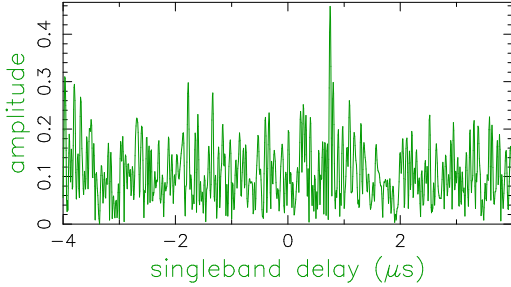
b: az 88.2 el 20.4 pa -44.0 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 1263.606 2213.914 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bk.W.76.0QR3WR

Fringe quality 0



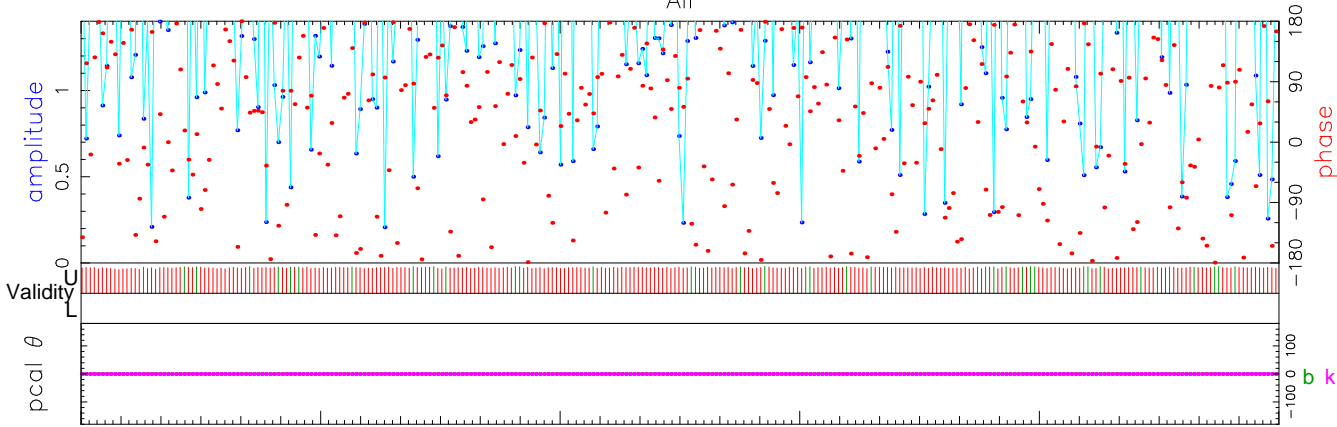
SNR 5.3
Int time 278.925
Amp 0.467
Phase -285.1
PFD 1.0e+00
Delays (us)
SBD 0.751488
MBD -0.000005
Fringe rate (Hz)
-0.190722
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
109.4
0.5
609.2
U/L 586/0
b 1000
k 1000
b:k 0:0
b:k 0:0
b 1000
k 1000
b W06UR
k W06UL

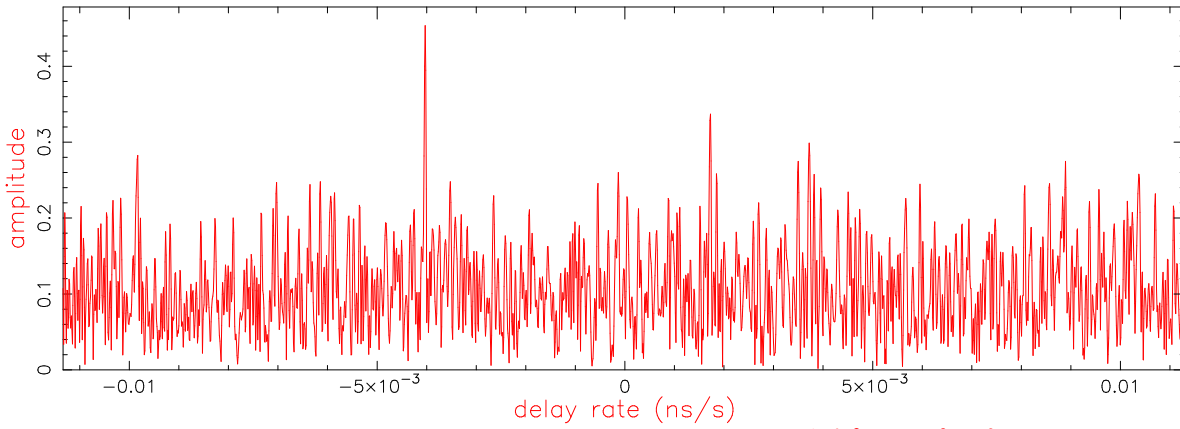
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.92085194615E+03	Apriori delay (usec)	-1.92160343781E+03	Resid mbdelay (usec)	-4.79003E-06	+/-	3.3E-03
Sband delay (usec)	-1.92085194981E+03	Apriori clock (usec)	-7.5689182E+00	Resid sbdelay (usec)	7.51488E-01	+/-	3.3E-03
Phase delay (usec)	-1.92160343428E+03	Apriori clockrate (us/s)	3.1365999E-07	Resid phdelay (usec)	3.52726E-06	+/-	7.0E-07
Delay rate (us/s)	-2.08105819277E-01	Apriori rate (us/s)	-2.08103605189E-01	Resid rate (us/s)	-2.21409E-06	+/-	4.1E-09
Total phase (deg)	-332.9	Apriori accel (us/s/s)	1.69734346702E-05	Resid phase (deg)	-285.1	+/-	21.8

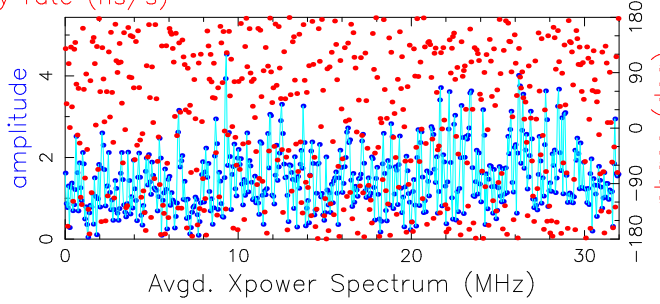
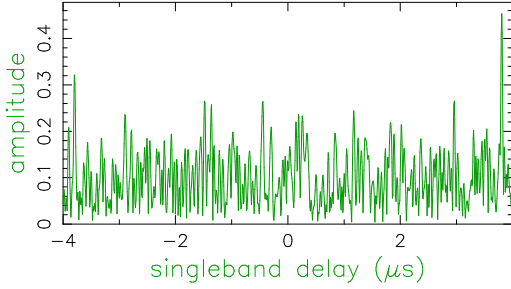
ph/seg (deg)	90.7	Theor.	186.7	Amplitude	0.467 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	377.0	Search (2048X8)	0.455	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.3	Inc. seg. avg.	0.302	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.458	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00		

b: az 88.2 el 20.4 pa -44.0 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 1263.606 2213.914 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bk.W.93.0QR3WR

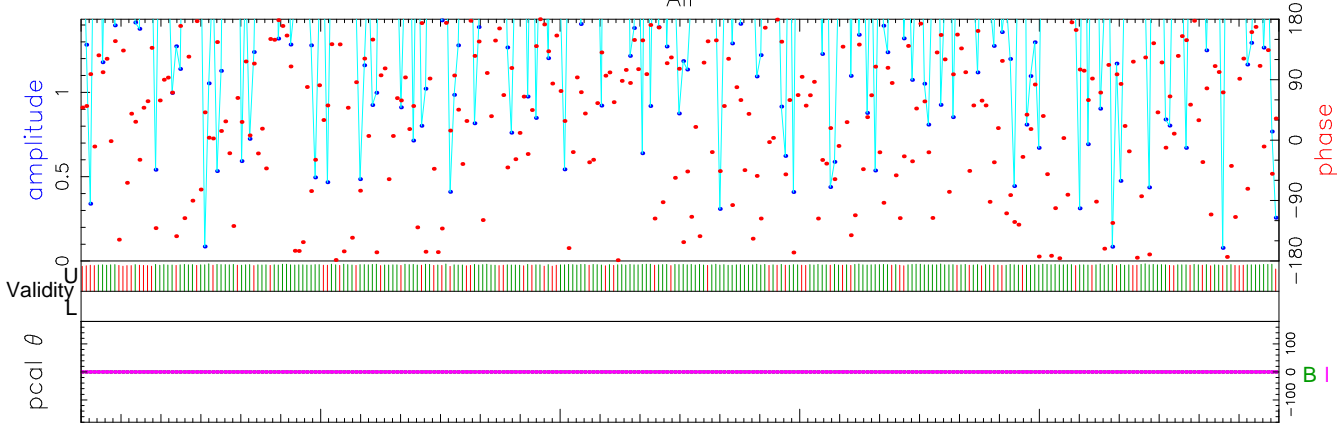


Fringe quality 0
SNR 5.3
Int time 287.959
Amp 0.478
Phase -96.2
PFD 1.0e+00
Delays (us)
SBD 3.805007
MBD -0.000006
Fringe rate (Hz)
-0.346499
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



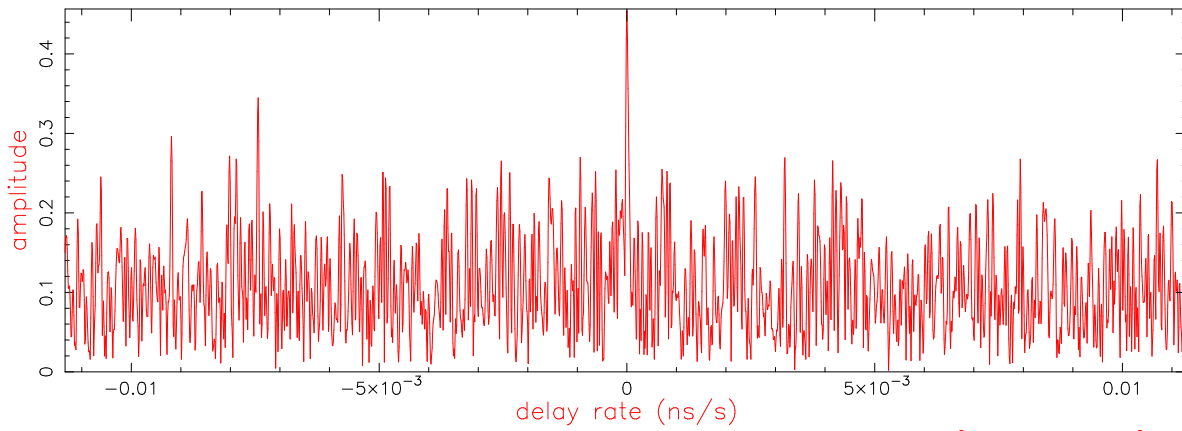
86204.00
91.2
0.5
1000.0
U/L 586/0
B 0
I 1000
B:I 0:0
B:I 0:0
B 1000
I 1000
B W06UR
I W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.94578618828E+03	Apriori delay (usec)	1.94198118487E+03	Resid mbdelay (usec)	-5.64057E-06	+/-	3.3E-03
Sband delay (usec)	1.94578619187E+03	Apriori clock (usec)	6.7087688E+00	Resid sbdelay (usec)	3.80501E+00	+/-	3.3E-03
Phase delay (usec)	1.94198118781E+03	Apriori clockrate (us/s)	-6.7000001E-08	Resid phdelay (usec)	2.93987E-06	+/-	7.0E-07
Delay rate (us/s)	-1.80649288359E+00	Apriori rate (us/s)	-1.80648886108E+00	Resid rate (us/s)	-4.02251E-06	+/-	4.1E-09
Total phase (deg)	-0.9	Apriori accel (us/s/s)	-4.37919842612E-06	Resid phase (deg)	-96.2	+/-	21.8

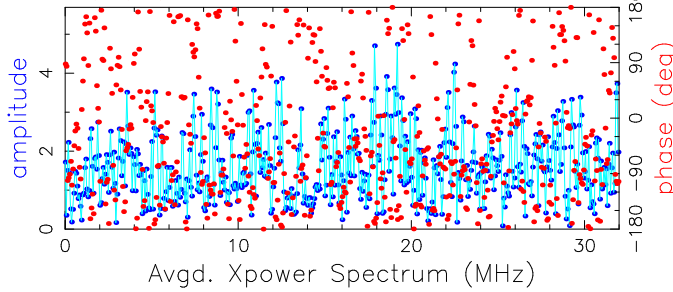
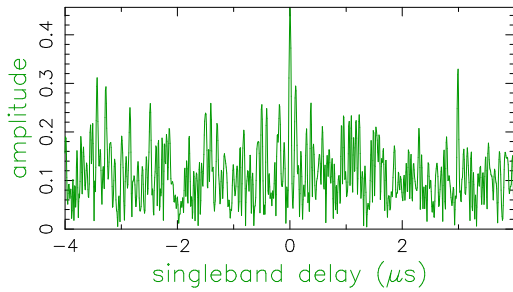
ph/seg (deg)	89.2	Theor.	186.3	Amplitude	0.478 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	366.1	Search (2048X8)	0.446	Search (2048X8)	0.446	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.311	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	0.470	Inc. seg. avg.	0.311	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000

B: az 247.2 el 37.9 pa 37.6 I: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 10769.757 1440.857 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BI..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BI.W.21.0QR3WR



Fringe quality 0

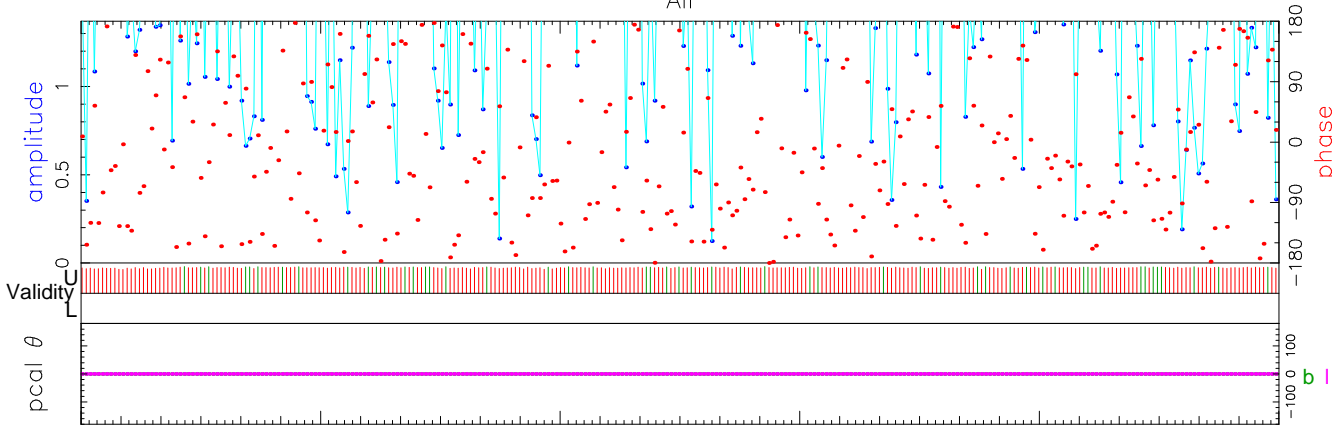
SNR 5.2
Int time 279.451
Amp 0.457
Phase -144.9
PFD 1.0e+00
Delays (us)
SBD 0.002115
MBD -0.000007
Fringe rate (Hz)
-0.000070
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-96.0
0.5
513.3
U/L 586/0
b 1000
l 1000
b:l 0:0
b:l 0:0
b 1000
l 1000
b W06UR
l W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.37786322643E+03	Apriori delay (usec)	-3.37786534263E+03	Resid mbdelay (usec)	-6.67969E-06	+/-	3.3E-03
Sband delay (usec)	-3.37786322713E+03	Apriori clock (usec)	2.7742417E+00	Resid sbdelay (usec)	2.11550E-03	+/-	3.3E-03
Phase delay (usec)	-3.37786534572E+03	Apriori clockrate (us/s)	3.5999998E-07	Resid phdelay (usec)	-3.09686E-06	+/-	7.1E-07
Delay rate (us/s)	-1.10262530535E-01	Apriori rate (us/s)	-1.10262529722E-01	Resid rate (us/s)	-8.12716E-10	+/-	4.1E-09
Total phase (deg)	-5.9	Apriori accel (us/s/s)	2.30261254274E-05	Resid phase (deg)	-144.9	+/-	22.0

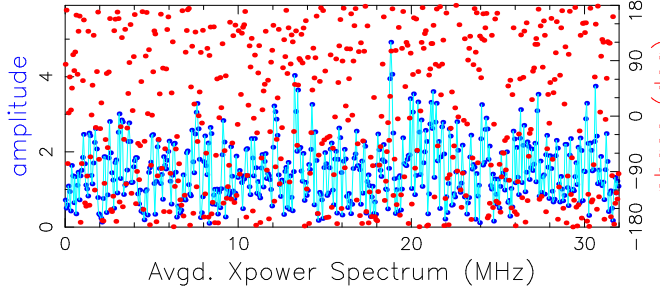
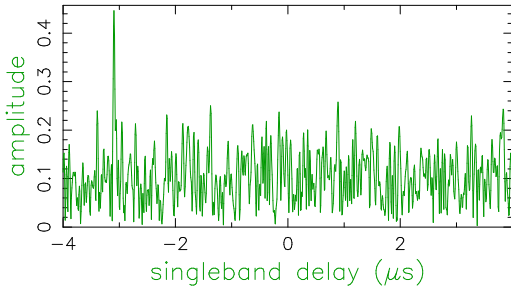
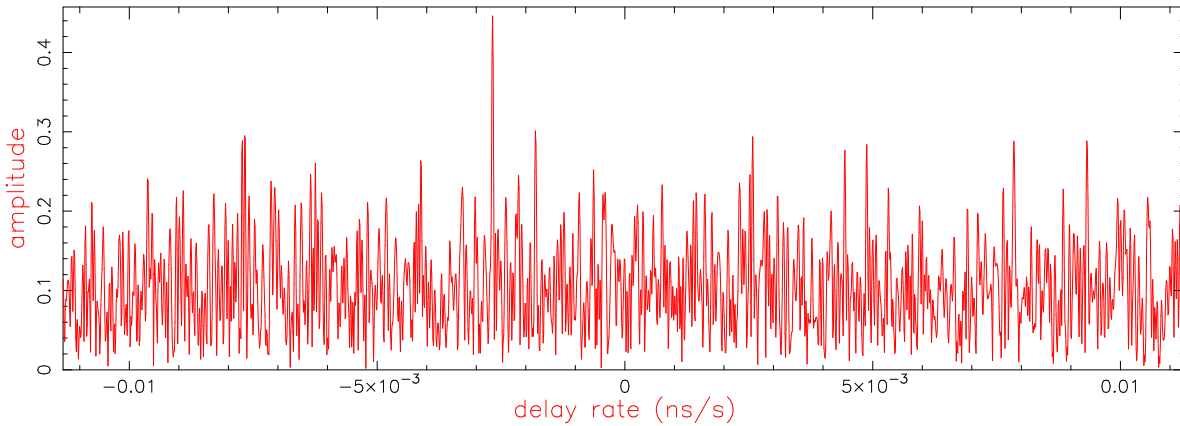
ph/seg (deg)	91.0	Theor.	188.0	Amplitude	0.457 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	410.3	Search (2048X8)	0.454	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.314	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.5	Inc. frq. avg.	0.446	Inc. frq. avg.	0.446	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 687.431 1884.795 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bl.0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bl.W.25.0QR3WR

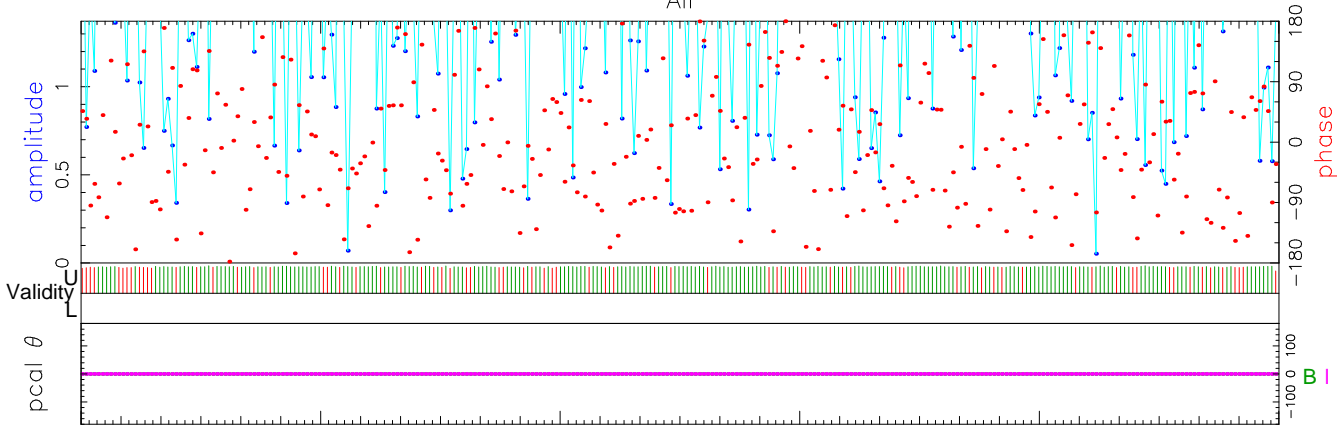
Fringe quality 0

SNR 5.2
Int time 287.959
Amp 0.457
Phase 357.8
PFD 1.0e+00
Delays (us)
SBD -3.094866
MBD -0.000006
Fringe rate (Hz)
-0.230001
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-27.7
0.5
116.9
U/L 586/0
B 0
I 1000
B:I 0:0
B:I 0:0
B 1000
I 1000
B W06UL
I W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.93888632254E+03	Apriori delay (usec)	1.94198118487E+03	Resid mbdelay (usec)	-5.94580E-06	+/- 3.3E-03
Sband delay (usec)	1.93888631937E+03	Apriori clock (usec)	6.7087688E+00	Resid sbdelay (usec)	-3.09487E+00	+/- 3.3E-03
Phase delay (usec)	1.94198118398E+03	Apriori clockrate (us/s)	-6.7000001E-08	Resid phdelay (usec)	-8.91855E-07	+/- 7.1E-07
Delay rate (us/s)	-1.80649153116E+00	Apriori rate (us/s)	-1.80648886108E+00	Resid rate (us/s)	-2.67008E-06	+/- 4.1E-09
Total phase (deg)	93.1	Apriori accel (us/s/s)	-4.37919842612E-06	Resid phase (deg)	357.8	+/- 22.1

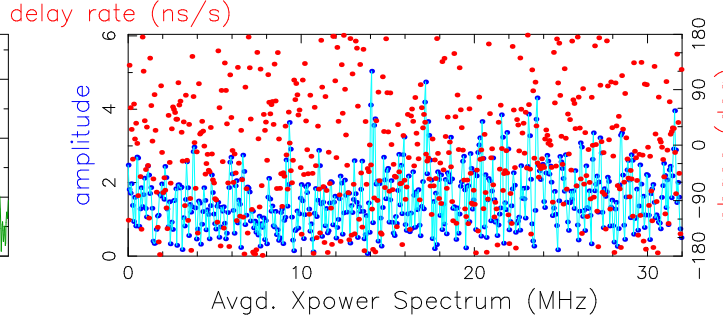
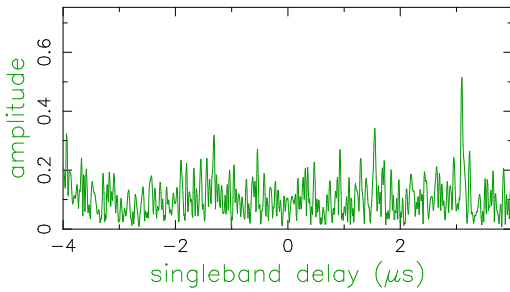
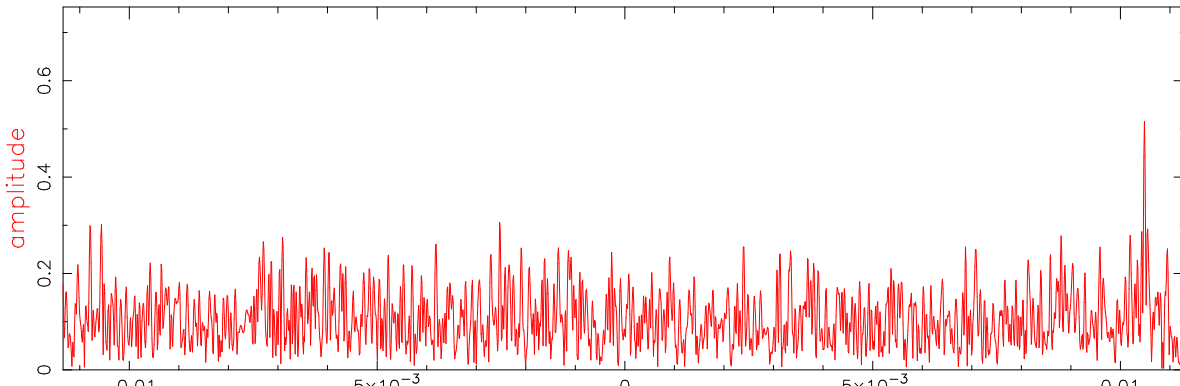
ph/seg (deg)	89.9	Theor.	189.1	Amplitude	0.457 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	377.0	Search (2048X8)	0.441	Search (2048X8)	0.441	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.2	Inc. seg. avg.	0.292	Inc. seg. avg.	0.292	Sample rate(MSamp/s): 64	mb window (us) -0.000 0.000
		Inc. frq. avg.	0.448	Inc. frq. avg.	0.448	Data rate(Mb/s): 128	dr window (ns/s) -0.011 0.011
						nlags: 512	t_cohere infinite
							ion window (TEC) 0.00 0.00

B: az 247.2 el 37.9 pa 37.6 I: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 10769.757 1440.857 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BI..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BI.W.52.0QR3WR

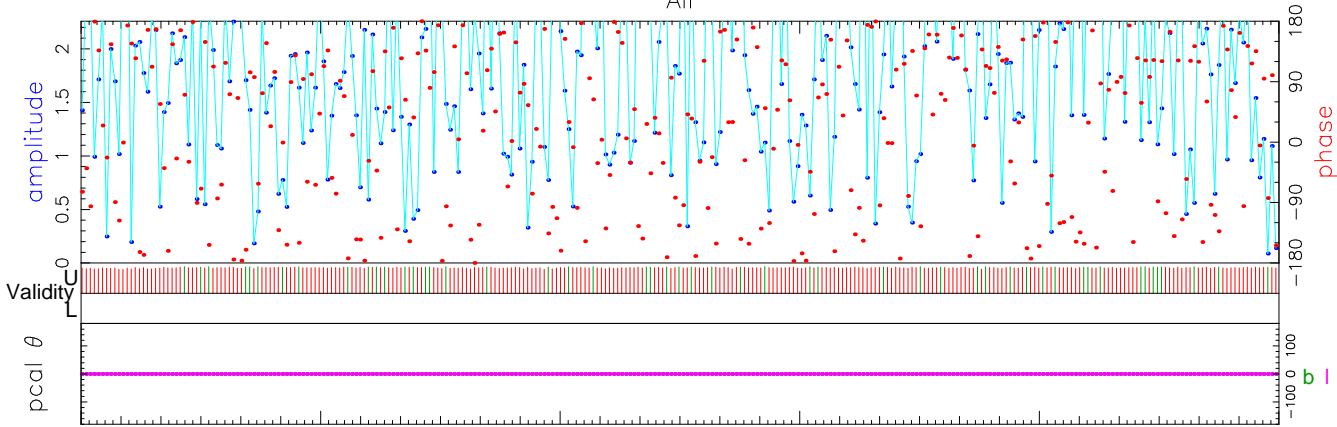
Fringe quality 0

SNR 5.9
Int time 279.451
Amp 0.753
Phase -207.5
PFD 4.0e-01
Delays (us)
SBD 3.093771
MBD 0.000006
Fringe rate (Hz)
0.902783
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
152.9
0.8
909.0
U/L 586/0
b 1000
l 1000
b:l 0:0
b:l 0:0
b 1000
l 1000
b W06UL
l W06UR

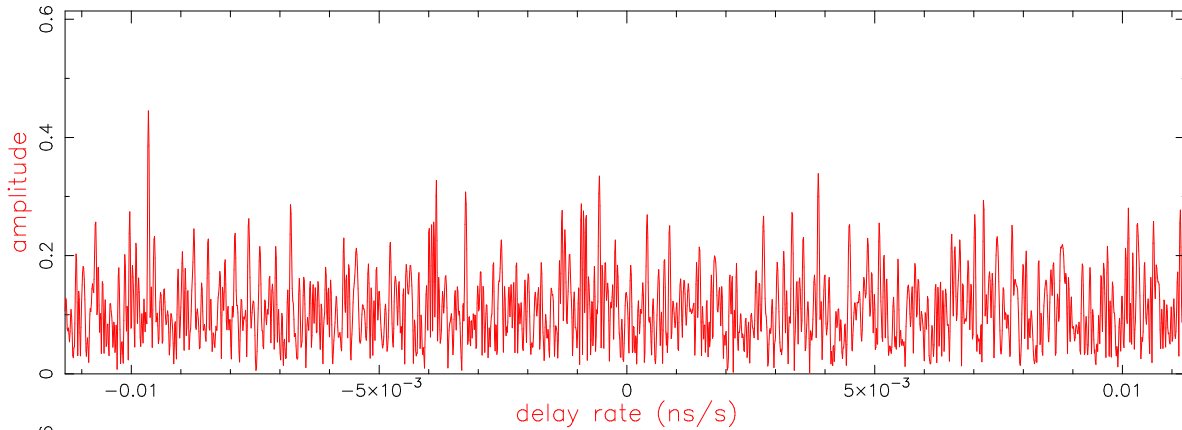
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.37477157080E+03	Apriori delay (usec)	-3.37786534263E+03	Resid mbdelay (usec)	5.87082E-06	+/-	2.9E-03
Sband delay (usec)	-3.37477157113E+03	Apriori clock (usec)	2.7742417E+00	Resid sbdelay (usec)	3.09377E+00	+/-	2.9E-03
Phase delay (usec)	-3.37786533769E+03	Apriori clockrate (us/s)	3.5999998E-07	Resid phdelay (usec)	4.93074E-06	+/-	6.3E-07
Delay rate (us/s)	-1.10252049302E-01	Apriori rate (us/s)	-1.10262529722E-01	Resid rate (us/s)	1.04804E-05	+/-	3.6E-09
Total phase (deg)	-68.4	Apriori accel (us/s/s)	2.30261254274E-05	Resid phase (deg)	-207.5	+/-	19.5

ph/seg (deg)	89.6	Theor.	166.7	Amplitude	0.753 +/- 0.128	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	327.2	Search (2048X8)	0.502	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.531	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.0	Inc. frq. avg.	0.742	Inc. frq. avg.	0.742	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

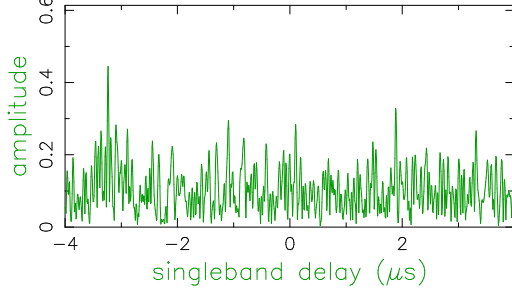
b: az 88.2 el 20.4 pa -44.0 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 687.431 1884.795 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bl.0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bl.W.57.0QR3WR

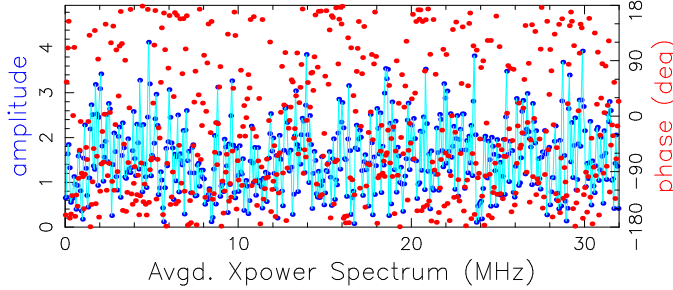


Fringe quality 0

SNR 5.2
Int time 287.952
Amp 0.614
Phase 354.9
PFD 1.0e+00
Delays (us)
SBD -3.235862
MBD -0.000004
Fringe rate (Hz)
-0.830919
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



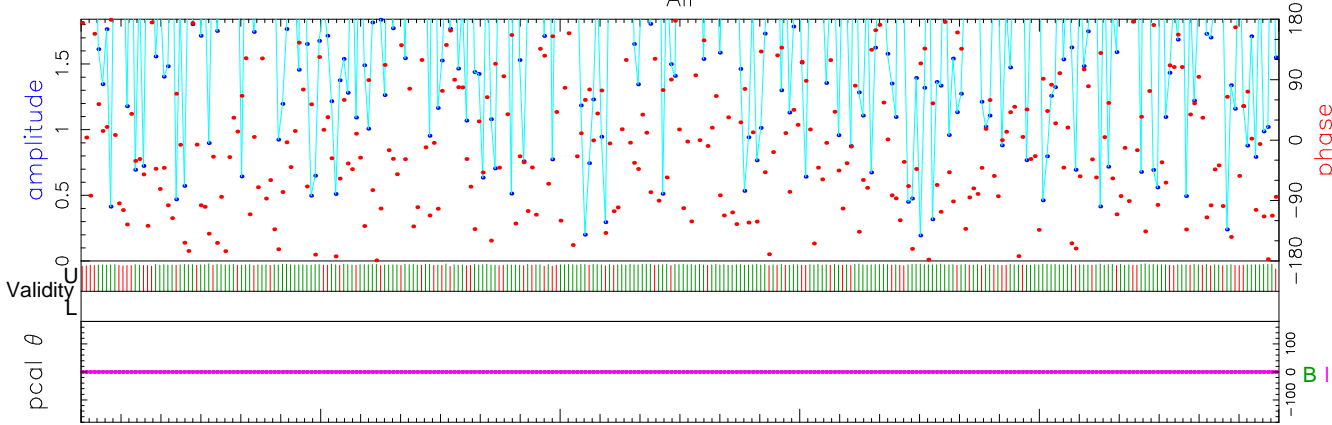
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-39.3
0.6
98.8
U/L 586/0
B 0
I 1000
B:I 0:0
B:I 0:0
B 1000
I 1000
B W06UL
I W06UL

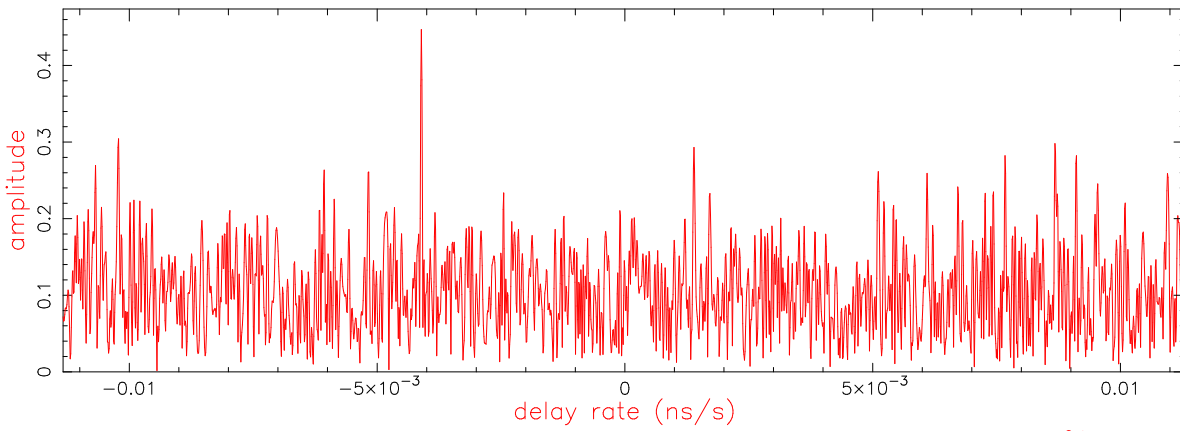
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.93874532137E+03	Apriori delay (usec)	1.94198118487E+03	Resid mbdelay (usec)	-4.37678E-06	+/- 3.3E-03
Sband delay (usec)	1.93874532237E+03	Apriori clock (usec)	6.7087688E+00	Resid sbdelay (usec)	-3.23586E+00	+/- 3.3E-03
Phase delay (usec)	1.94198118360E+03	Apriori clockrate (us/s)	-6.7000001E-08	Resid phdelay (usec)	-1.26601E-06	+/- 7.1E-07
Delay rate (us/s)	-1.80649850722E+00	Apriori rate (us/s)	-1.80648886108E+00	Resid rate (us/s)	-9.64614E-06	+/- 4.1E-09
Total phase (deg)	90.2	Apriori accel (us/s/s)	-4.37919842612E-06	Resid phase (deg)	354.9	+/- 22.1

ph/seg (deg)	92.5	Theor.	189.2	Amplitude	0.614 +/- 0.118	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	399.7	Search (2048X8)	0.437	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.417	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.4	Inc. frq. avg.	0.600	Inc. frq. avg.	0.600	Sample rate(MSamp/s): 64	mb window (us) -0.000 0.000
						Data rate(Mb/s): 128	dr window (ns/s) -0.011 0.011
						nlags: 512	t_cohere infinite
							ion window (TEC) 0.00 0.00

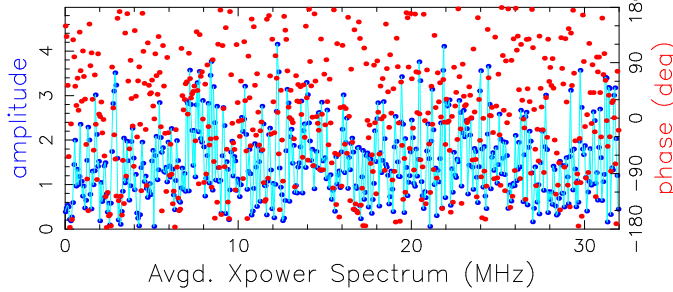
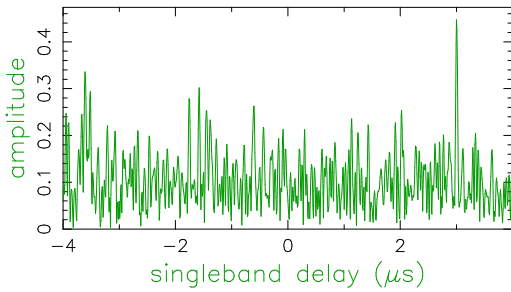
B: az 247.2 el 37.9 pa 37.6 I: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 10769.757 1440.857 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BI..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BI.W.6.0QR3WR



Fringe quality 0

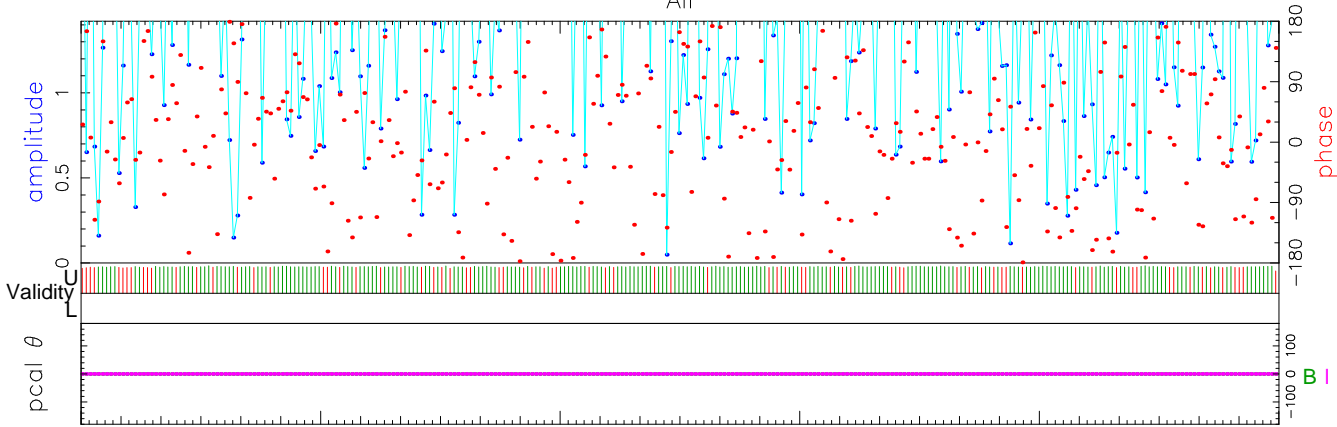
SNR 5.2
Int time 287.952
Amp 0.474
Phase -15.4
PFD 1.0e+00
Delays (us)
SBD 3.001636
MBD -0.000007
Fringe rate (Hz)
-0.354020
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
22.5
0.5
897.2
U/L 586/0
B 0
I 1000
B:I 0:0
B:I 0:0
B 1000
I 1000
B W06UR
I W06UL

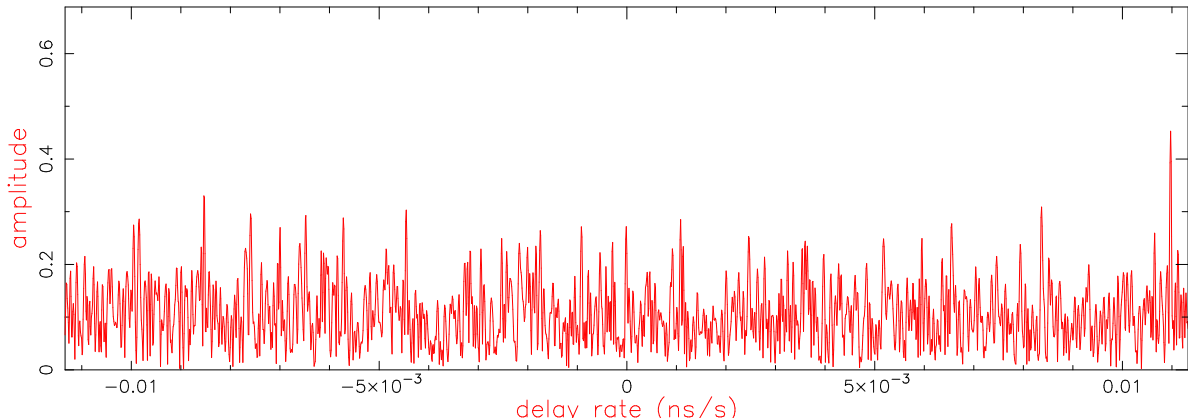
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.94498282488E+03	Apriori delay (usec)	1.94198118487E+03	Resid mbdelay (usec)	-7.24774E-06	+/-	3.3E-03
Sband delay (usec)	1.94498282087E+03	Apriori clock (usec)	6.7087688E+00	Resid sbdelay (usec)	3.00164E+00	+/-	3.3E-03
Phase delay (usec)	1.94198118560E+03	Apriori clockrate (us/s)	-6.7000001E-08	Resid phdelay (usec)	7.25831E-07	+/-	7.1E-07
Delay rate (us/s)	-1.80649297090E+00	Apriori rate (us/s)	-1.80648886108E+00	Resid rate (us/s)	-4.10982E-06	+/-	4.1E-09
Total phase (deg)	-280.1	Apriori accel (us/s/s)	-4.37919842612E-06	Resid phase (deg)	-15.4	+/-	22.0

ph/seg (deg)	93.9	Theor.	188.5	Amplitude	0.474 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	363.9	Search (2048X8)	0.443	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.290	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.464	Inc. frq. avg.	0.464	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

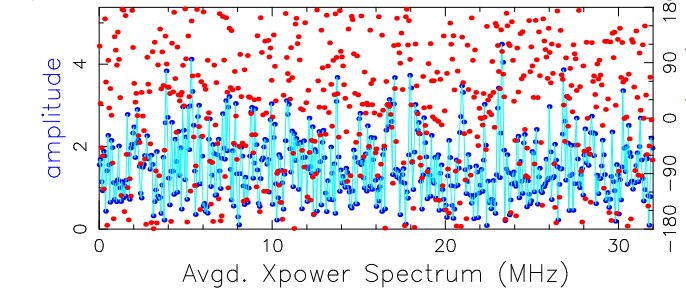
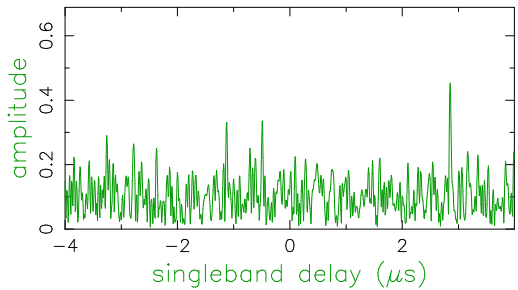
B: az 247.2 el 37.9 pa 37.6 I: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 10769.757 1440.857 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BI..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BI.W.68.0QR3WR



Fringe quality 0

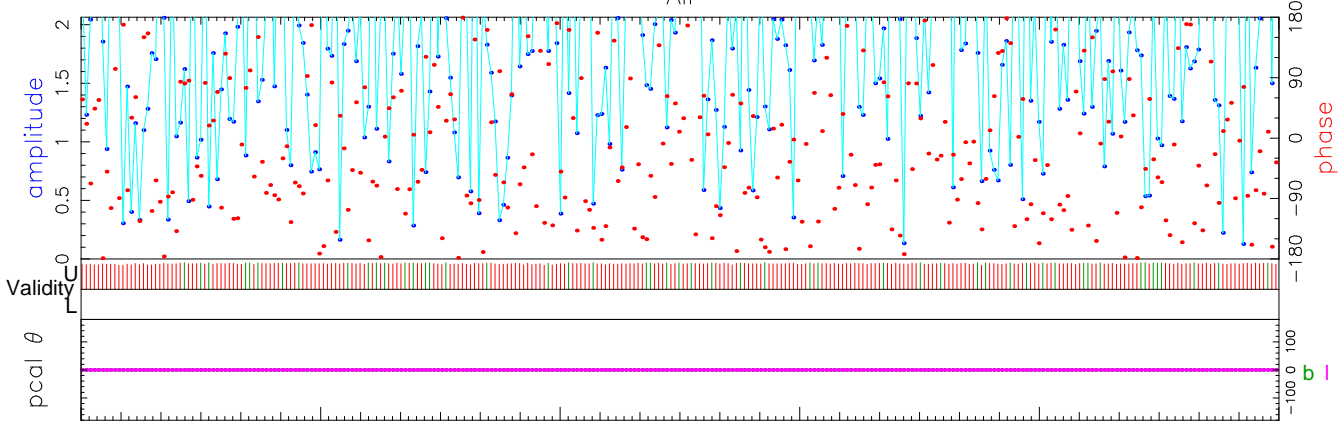
SNR 5.2
Int time 279.443
Amp 0.688
Phase -251.1
PFD 1.0e+00
Delays (us)
SBD 2.851300
MBD 0.000004
Fringe rate (Hz)
0.943965
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



Validity

pcal θ

86204.00
-77.3
0.7
878.0
U/L 586/0
b 1000
l 1000
b:l 0:0
b:l 0:0
b 1000
l 1000
b W06UR
l W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp

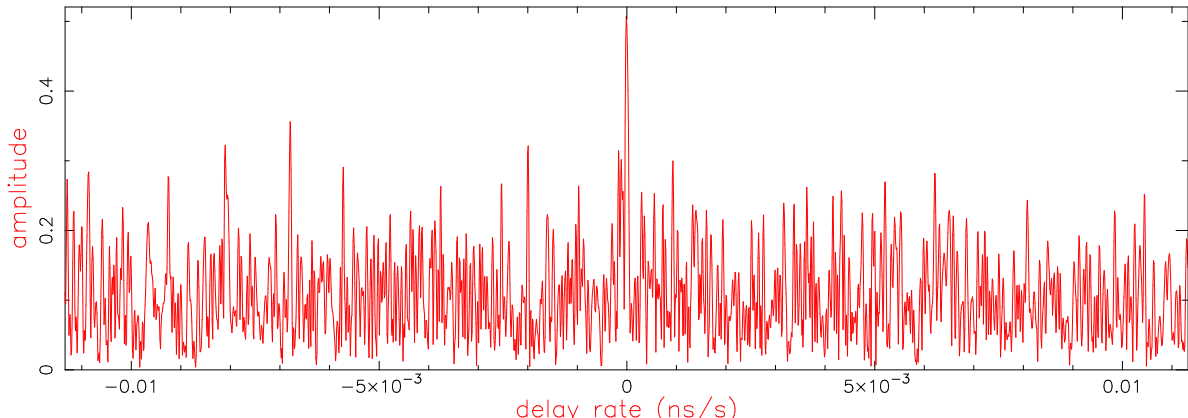
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.37501404367E+03	Apriori delay (usec)	-3.37786534263E+03	Resid mbdelay (usec)	4.35126E-06	+/-	3.3E-03
Sband delay (usec)	-3.37501404213E+03	Apriori clock (usec)	2.7742417E+00	Resid sbdelay (usec)	2.85130E+00	+/-	3.3E-03
Phase delay (usec)	-3.37786534512E+03	Apriori clockrate (us/s)	3.5999998E-07	Resid phdelay (usec)	-2.49343E-06	+/-	7.1E-07
Delay rate (us/s)	-1.10251571226E-01	Apriori rate (us/s)	-1.10262529722E-01	Resid rate (us/s)	1.09585E-05	+/-	4.1E-09
Total phase (deg)	-112.1	Apriori accel (us/s/s)	2.30261254274E-05	Resid phase (deg)	-251.1	+/-	22.1

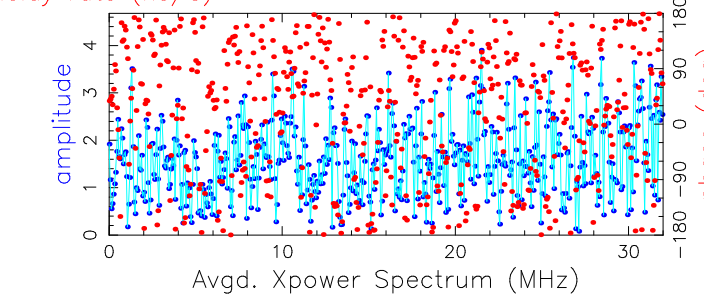
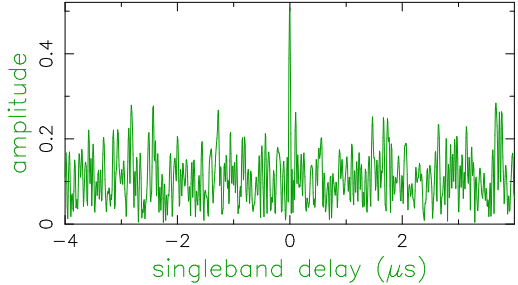
ph/seg (deg)	92.0	Theor.	189.5	Amplitude	0.688 +/- 0.133	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	394.4	Search (2048X8)	0.450	Search	0.450	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.455	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	0.676	Inc. frq. avg.	0.676	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

b: az 88.2 el 20.4 pa -44.0 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 687.431 1884.795 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bl.0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bl.W.70.0QR3WR

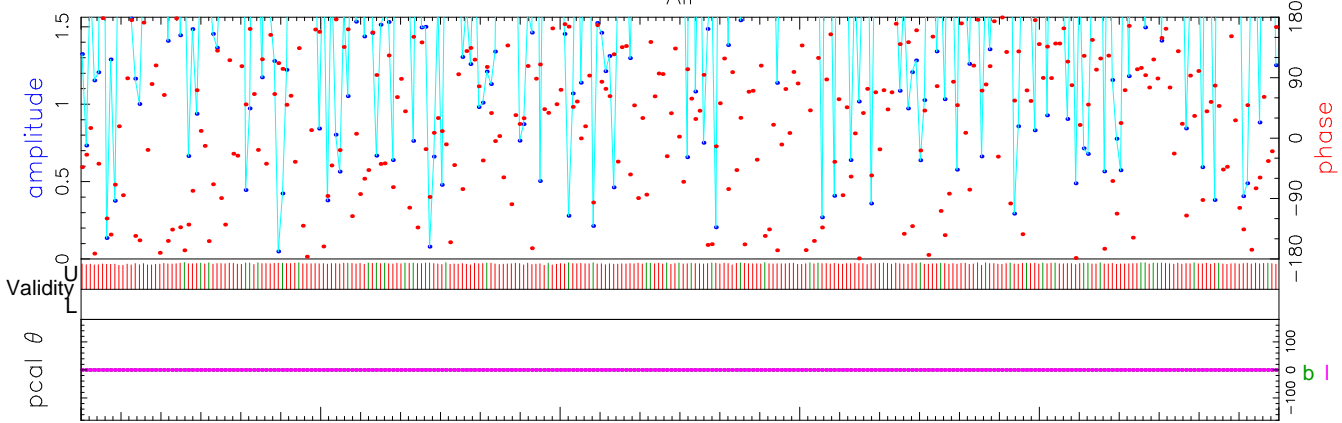


Fringe quality 0
SNR 6.0
Int time 279.443
Amp 0.521
Phase 168.2
PFD 2.9e-01
Delays (us)
SBD -0.003676
MBD -0.000005
Fringe rate (Hz)
-0.000729
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
83.8
0.5
512.5
U/L 586/0
b 1000
l 1000
b:l 0:0
b:l 0:0
b 1000
l 1000
b W06UL
l W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.37786901357E+03	Apriori delay (usec)	-3.37786534263E+03	Resid mbdelay (usec)	-5.21934E-06	+/-	2.9E-03
Sband delay (usec)	-3.37786901863E+03	Apriori clock (usec)	2.7742417E+00	Resid sbdelay (usec)	-3.67600E-03	+/-	2.9E-03
Phase delay (usec)	-3.37786533992E+03	Apriori clockrate (us/s)	3.5999998E-07	Resid phdelay (usec)	2.70100E-06	+/-	6.2E-07
Delay rate (us/s)	-1.10262538190E-01	Apriori rate (us/s)	-1.10262529722E-01	Resid rate (us/s)	-8.46797E-09	+/-	3.6E-09
Total phase (deg)	-52.7	Apriori accel (us/s/s)	2.30261254274E-05	Resid phase (deg)	168.2	+/-	19.3

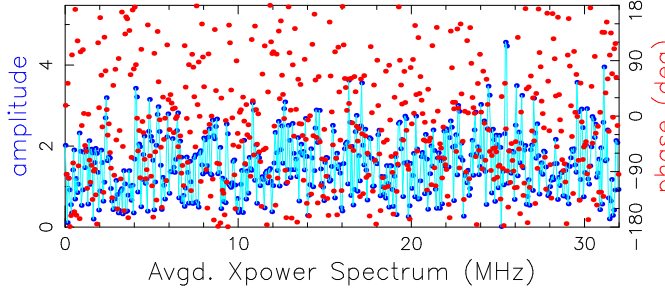
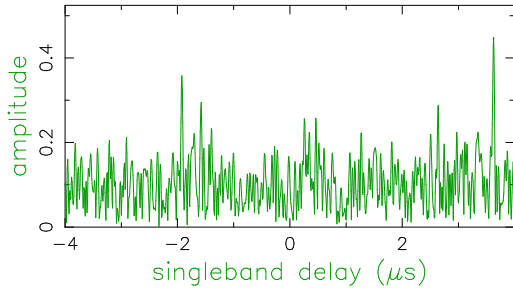
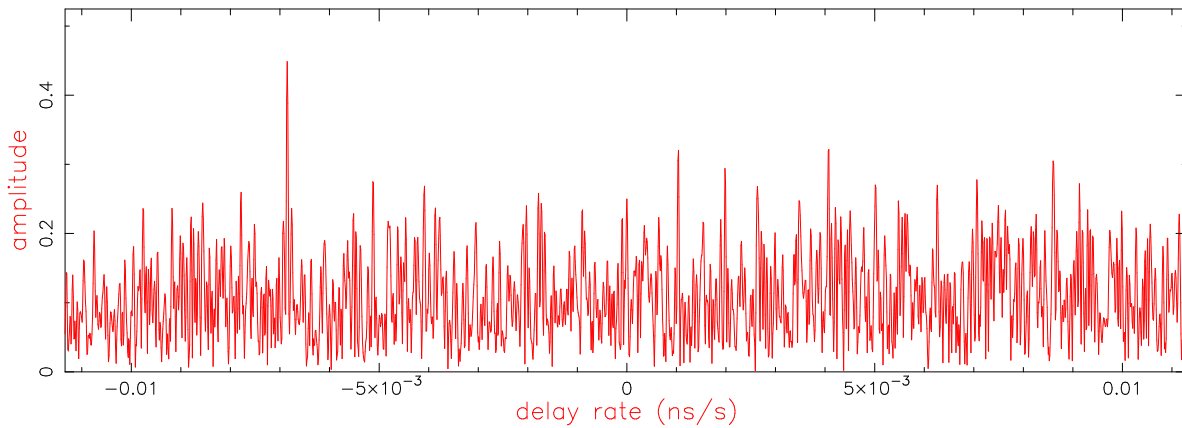
ph/seg (deg)	91.2	Theor.	164.8	Amplitude	0.521 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	352.4	Search (2048X8)	0.504	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.389	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.6	Inc. frq. avg.	0.500	Inc. seg. avg.	0.389	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 687.431 1884.795 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bl.0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bl.W.8.0QR3WR

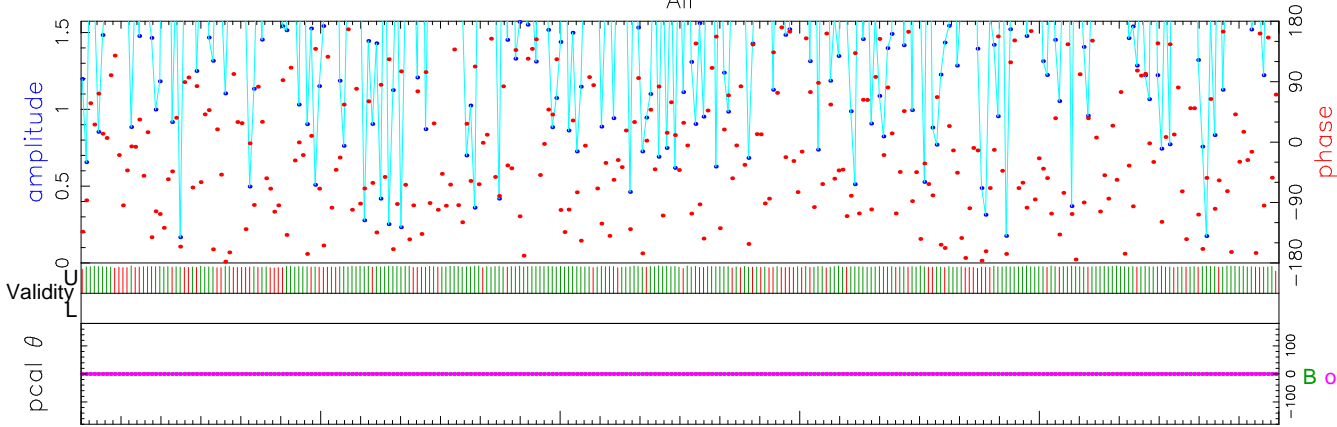
Fringe quality 0

SNR 5.2
Int time 287.771
Amp 0.525
Phase -18.5
PFD 1.0e+00
Delays (us)
SBD 3.623828
MBD -0.000004
Fringe rate (Hz)
-0.590136
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-45.4
0.5
976.8
U/L 586/0
B 0
o 1000
B:o 0:0
B:o 0:0
B 1000
o 1000
B W06UL
o W06UL

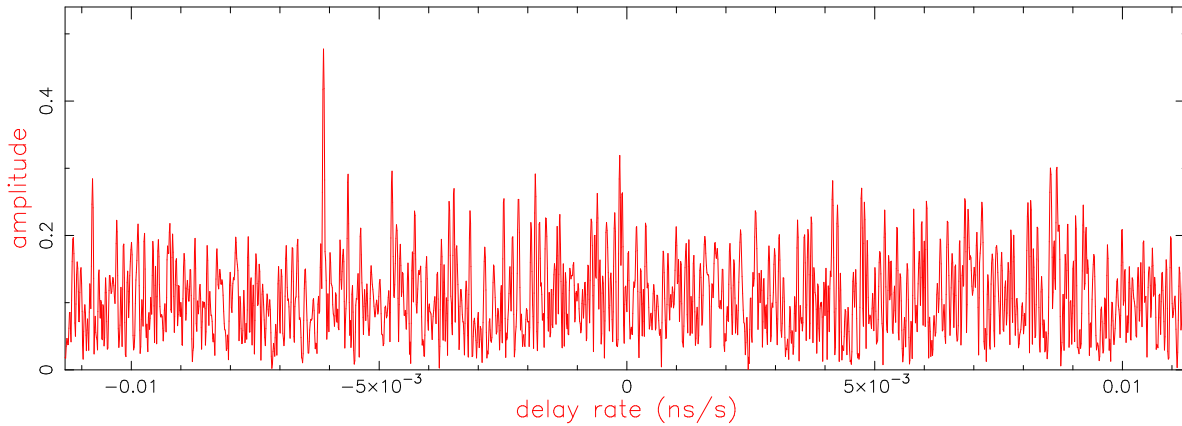
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.13711794074E+03	Apriori delay (usec)	5.13349411094E+03	Resid mbdelay (usec)	-4.35367E-06	+/-	3.3E-03
Sband delay (usec)	5.13711793894E+03	Apriori clock (usec)	-9.4252892E+00	Resid sbdelay (usec)	3.62383E+00	+/-	3.3E-03
Phase delay (usec)	5.13349410947E+03	Apriori clockrate (us/s)	-6.6355997E-07	Resid phdelay (usec)	-1.46322E-06	+/-	7.1E-07
Delay rate (us/s)	-1.87534142571E+00	Apriori rate (us/s)	-1.87533457482E+00	Resid rate (us/s)	-6.85089E-06	+/-	4.1E-09
Total phase (deg)	-120.8	Apriori accel (us/s/s)	-2.2077777399E-05	Resid phase (deg)	-18.5	+/-	22.0

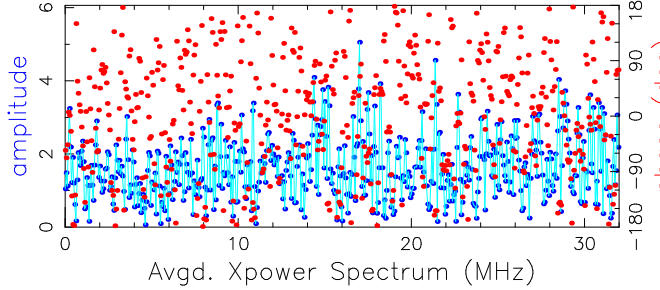
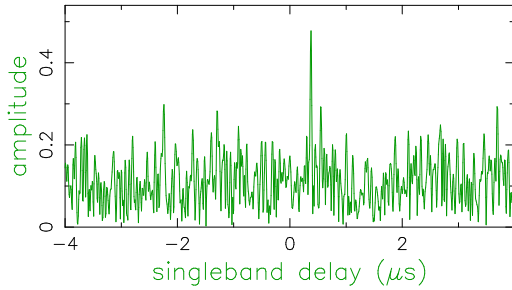
ph/seg (deg)	92.7	Theor.	188.2	Amplitude	0.525 +/- 0.101	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	377.0	Search (2048X8)	0.445	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.342	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.514	Inc. frq. avg.	0.514	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 11157.947 860.633 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bo.W.19.0QR3WR

Fringe quality 0

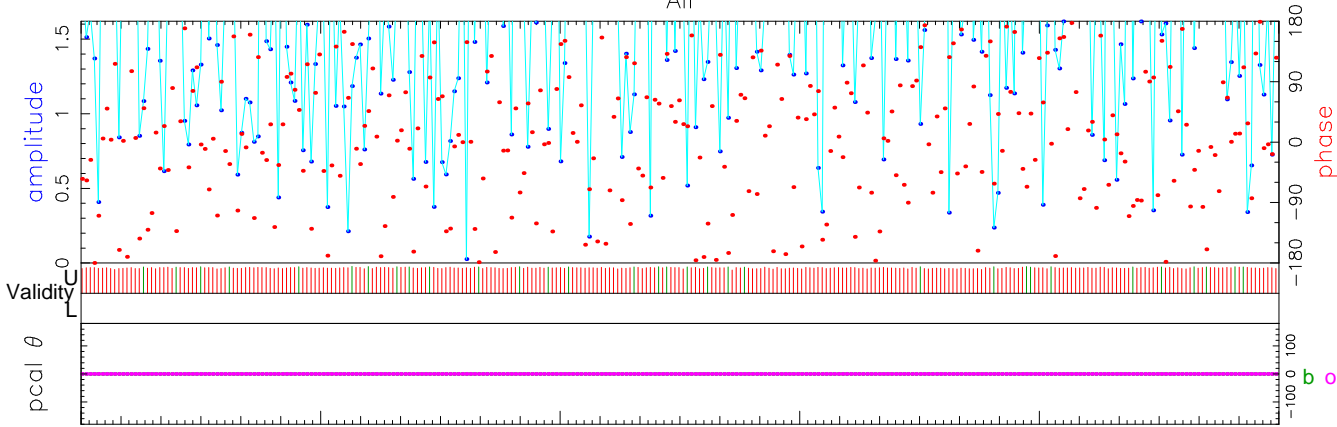


SNR 5.4
Int time 277.360
Amp 0.540
Phase -341.3
PFD 1.0e+00
Delays (us)
SBD 0.375171
MBD -0.000005
Fringe rate (Hz)
-0.527461
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
22.8
0.5
561.0
U/L 586/0
b 1000
o 1000
b:o 0:0
b:o 0:0
b 1000
o 1000
b W06UL
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.85977241686E+02	Apriori delay (usec)	-1.86352416560E+02	Resid mbdelay (usec)	-4.93211E-06	+/-	3.2E-03
Sband delay (usec)	-1.85977245560E+02	Apriori clock (usec)	-1.3359817E+01	Resid sbdelay (usec)	3.75171E-01	+/-	3.2E-03
Phase delay (usec)	-1.86352415824E+02	Apriori clockrate (us/s)	-2.3655998E-07	Resid phdelay (usec)	7.36069E-07	+/-	6.8E-07
Delay rate (us/s)	-1.79114366758E-01	Apriori rate (us/s)	-1.79108243462E-01	Resid rate (us/s)	-6.12330E-06	+/-	3.9E-09
Total phase (deg)	-39.8	Apriori accel (us/s/s)	5.32754611354E-06	Resid phase (deg)	-341.3	+/-	21.1

ph/seg (deg)	93.3	Theor.	180.4	Amplitude	0.540 +/- 0.099	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	366.6	Search (2048X8)	0.474	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.362	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.531	Inc. frq. avg.	0.531	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

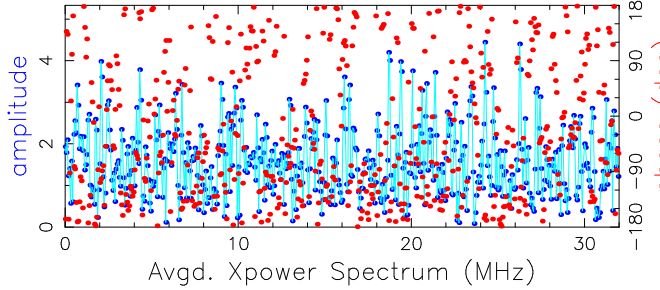
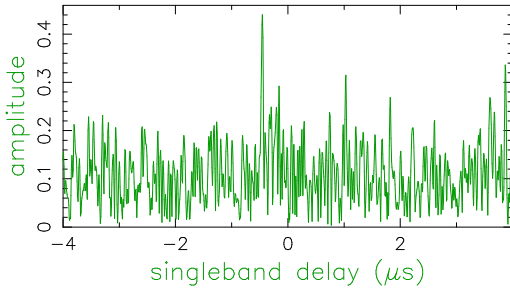
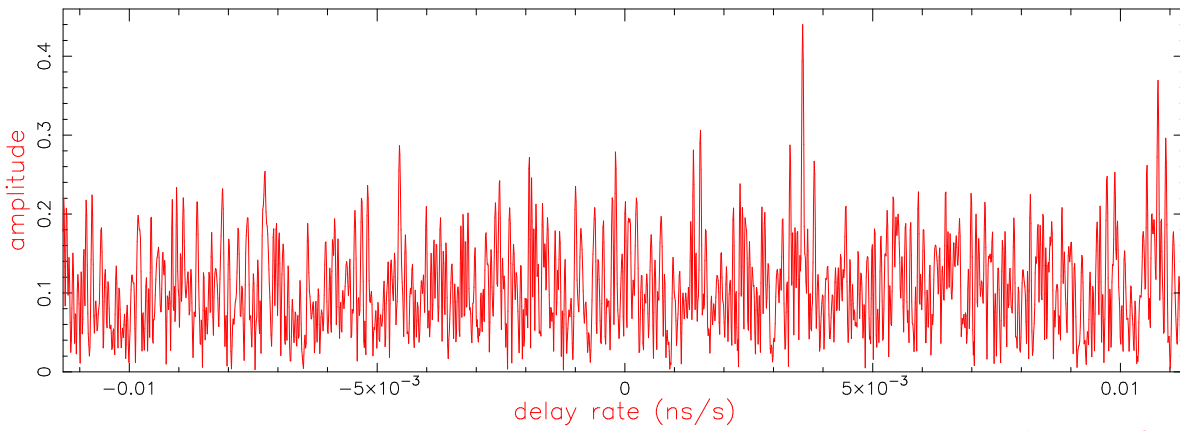
b: az 88.2 el 20.4 pa -44.0 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 1075.621 1304.570 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bo.W.22.0QR3WR

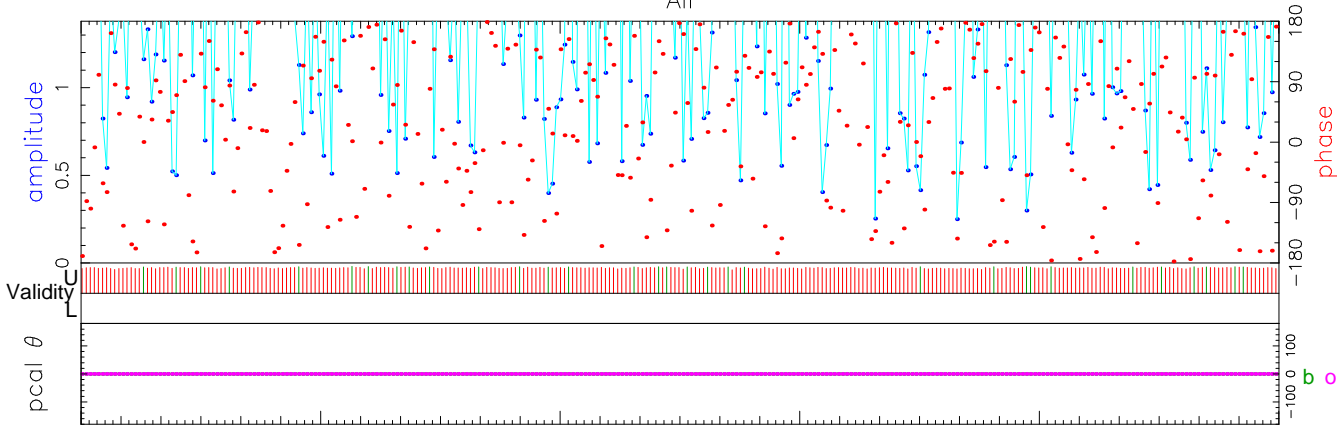
Fringe quality 0

SNR 5.0
Int time 277.362
Amp 0.460
Phase 161.6
PFD 1.0e+00
Delays (us)
SBD -0.454525
MBD 0.000006
Fringe rate (Hz)
0.309095
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
129.3
0.5
454.8
U/L 586/0
b 1000
o 1000
b:o 0:0
b:o 0:0
b 1000
o 1000
b W06UR
o W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.86806937223E+02	Apriori delay (usec)	-1.86352416560E+02	Resid mbdelay (usec)	5.80948E-06	+/-	3.4E-03
Sband delay (usec)	-1.86806941560E+02	Apriori clock (usec)	-1.3359817E+01	Resid sbdelay (usec)	-4.54525E-01	+/-	3.4E-03
Phase delay (usec)	-1.86352412391E+02	Apriori clockrate (us/s)	-2.3655998E-07	Resid phdelay (usec)	4.16952E-06	+/-	7.4E-07
Delay rate (us/s)	-1.79104655179E-01	Apriori rate (us/s)	-1.79108243462E-01	Resid rate (us/s)	3.58828E-06	+/-	4.2E-09
Total phase (deg)	103.1	Apriori accel (us/s/s)	5.32754611354E-06	Resid phase (deg)	161.6	+/-	22.8

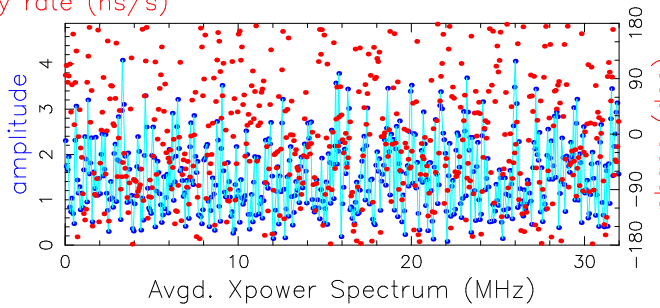
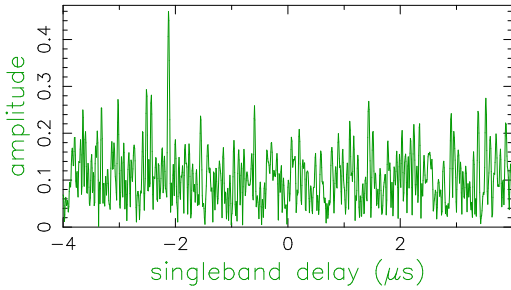
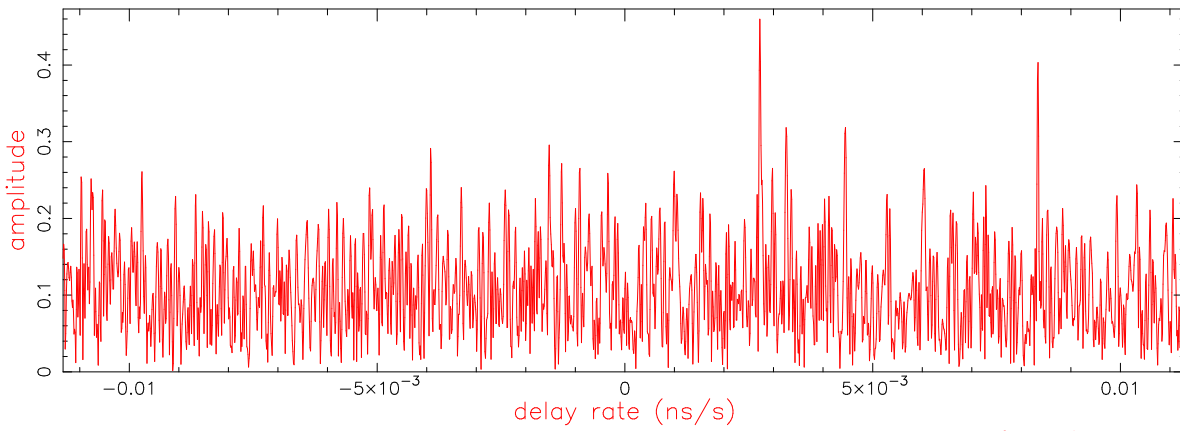
ph/seg (deg)	94.2	Theor.	195.3	Amplitude	0.460 +/- 0.092	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	385.9	Search (2048X8)	0.439	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.277	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.450	Inc. frq. avg.	0.450	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 1075.621 1304.570 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bo.W.35.0QR3WR

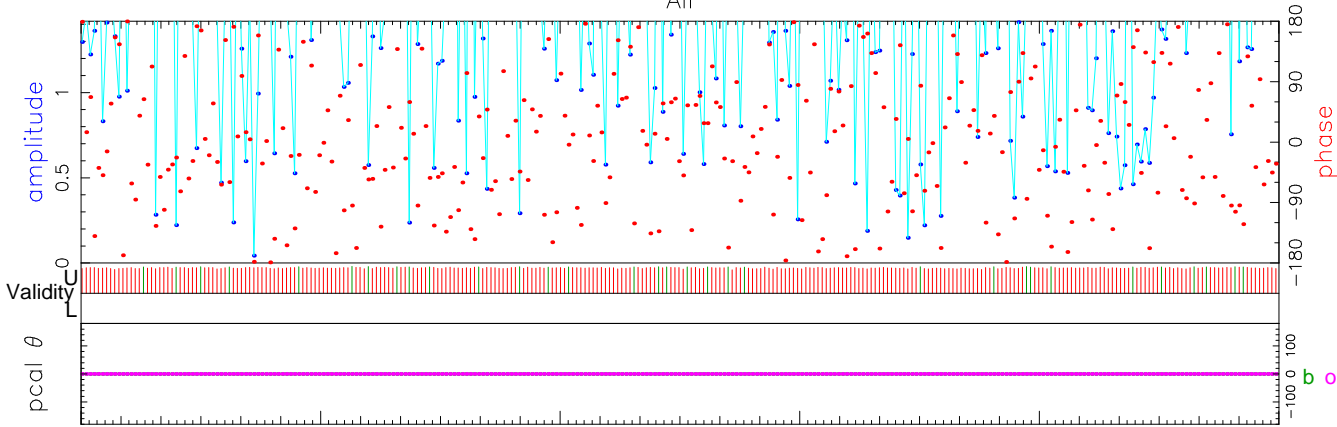
Fringe quality 0

SNR 5.3
Int time 277.361
Amp 0.473
Phase 306.2
PFD 1.0e+00
Delays (us)
SBD -2.123164
MBD 0.000006
Fringe rate (Hz)
0.234897
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-11.7
0.5
241.2
U/L 586/0
b 1000
o 1000
b:o 0:0
b:o 0:0
b 1000
o 1000
b W06UL
o W06UR

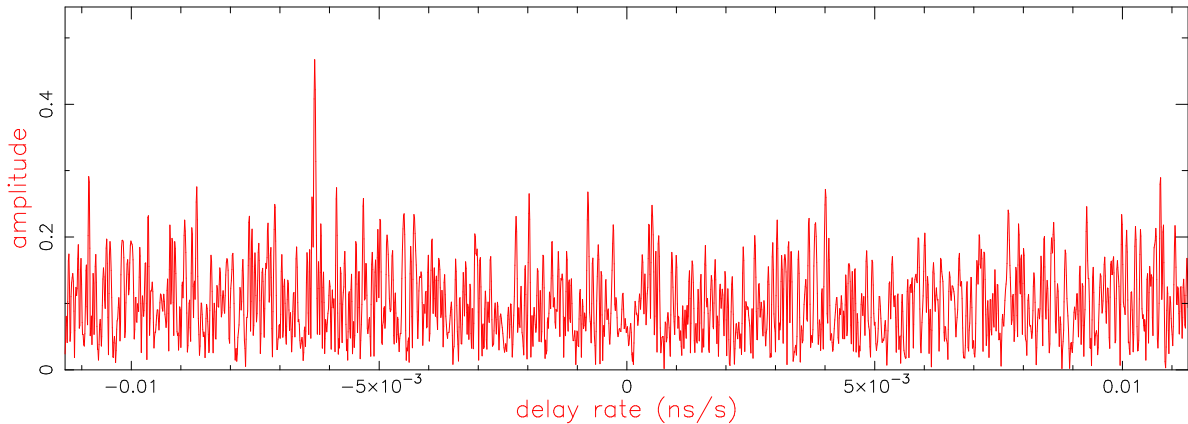
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.88475583744E+02	Apriori delay (usec)	-1.86352416560E+02	Resid mbdelay (usec)	5.75426E-06	+/-	3.3E-03
Sband delay (usec)	-1.88475581060E+02	Apriori clock (usec)	-1.3359817E+01	Resid sbdelay (usec)	-2.12316E+00	+/-	3.3E-03
Phase delay (usec)	-1.86352416936E+02	Apriori clockrate (us/s)	-2.3655998E-07	Resid phdelay (usec)	-3.76364E-07	+/-	7.0E-07
Delay rate (us/s)	-1.79105516537E-01	Apriori rate (us/s)	-1.79108243462E-01	Resid rate (us/s)	2.72693E-06	+/-	4.1E-09
Total phase (deg)	247.7	Apriori accel (us/s/s)	5.32754611354E-06	Resid phase (deg)	306.2	+/-	21.8

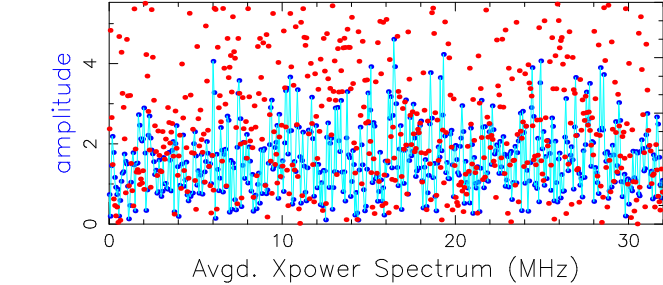
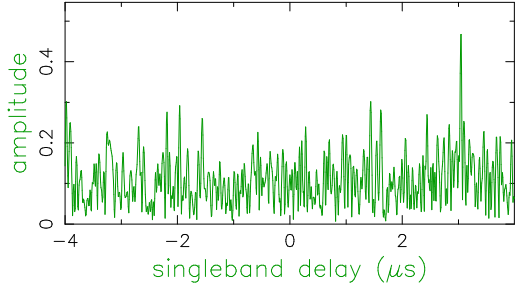
ph/seg (deg)	RMS 94.1	Theor. 186.5	Amplitude 0.473 +/- 0.090	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	386.5	325.5	Search (2048X8) 0.450	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	10.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.4	19.0	Inc. seg. avg. 0.309	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.463	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

b: az 88.2 el 20.4 pa -44.0 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 1075.621 1304.570 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bo.W.48.0QR3WR

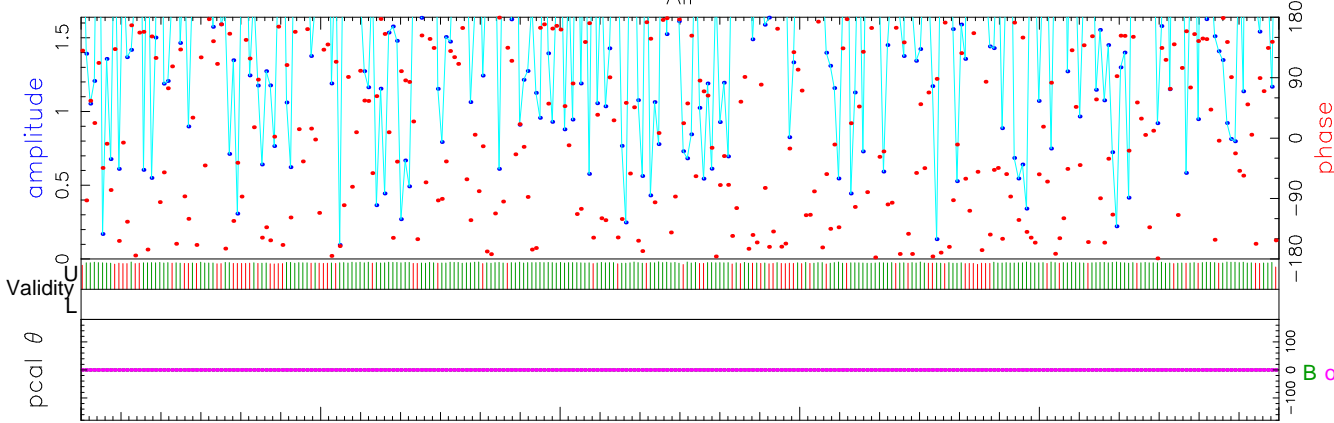


Fringe quality 0
SNR 5.6
Int time 287.774
Amp 0.547
Phase -87.9
PFD 9.6e-01
Delays (us)
SBD 3.043066
MBD -0.000005
Fringe rate (Hz)
-0.542625
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-175.5
0.5
902.5
U/L 586/0
B 0
o 1000
B:o 0:0
B:o 0:0
B 1000
o 1000
B W06UR
o W06UR

Validity
pcal theta

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.13653717784E+03	Apriori delay (usec)	5.13349411094E+03	Resid mbdelay (usec)	-5.34602E-06	+/-	3.1E-03
Sband delay (usec)	5.13653717644E+03	Apriori clock (usec)	-9.4252892E+00	Resid sbdelay (usec)	3.04307E+00	+/-	3.1E-03
Phase delay (usec)	5.13349410528E+03	Apriori clockrate (us/s)	-6.6355997E-07	Resid phdelay (usec)	-5.66083E-06	+/-	6.6E-07
Delay rate (us/s)	-1.87534087416E+00	Apriori rate (us/s)	-1.87533457482E+00	Resid rate (us/s)	-6.29934E-06	+/-	3.8E-09
Total phase (deg)	-190.2	Apriori accel (us/s/s)	-2.2077777399E-05	Resid phase (deg)	-87.9	+/-	20.6

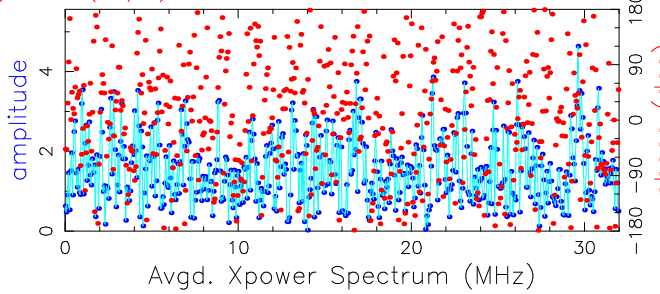
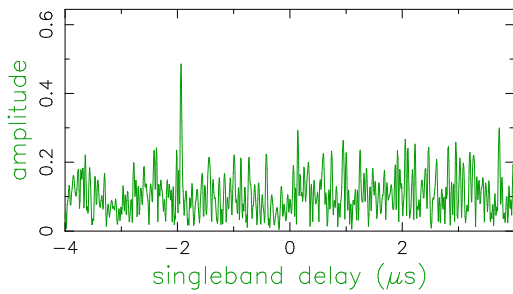
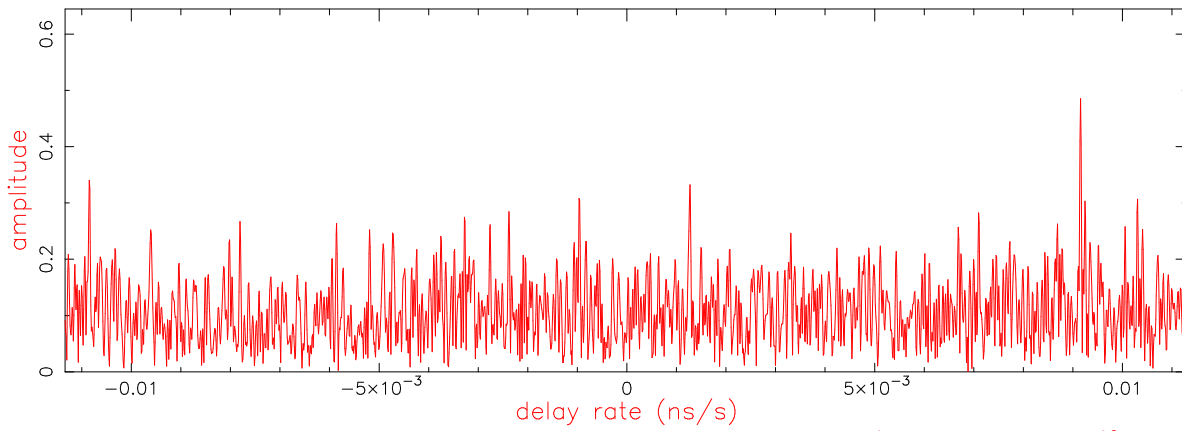
ph/seg (deg)	92.2	Theor.	176.3	Amplitude	0.547 +/- 0.098	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	337.8	Search (2048X8)	0.464	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.357	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.6	Inc. frq. avg.	0.524	Inc. frq. avg.	0.524	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 11157.947 860.633 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bo.W.62.0QR3WR

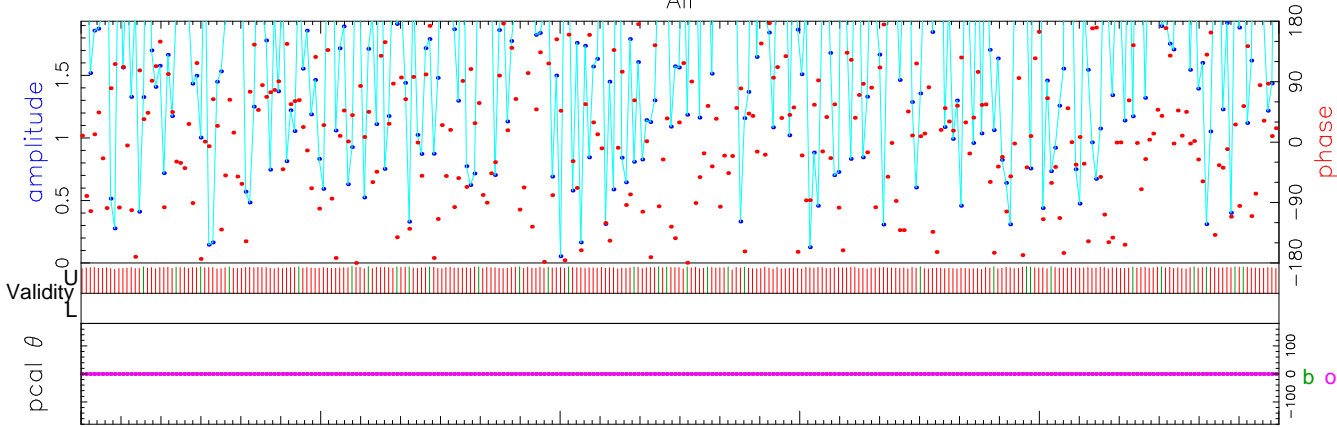
Fringe quality 0

SNR 5.5
Int time 277.360
Amp 0.645
Phase 12.2
PFD 9.8e-01
Delays (us)
SBD -1.937112
MBD 0.000004
Fringe rate (Hz)
0.787807
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
21.1
0.6
265.1
U/L 586/0
b 1000
o 1000
b:o 0:0
b:o 0:0
b 1000
o 1000
b W06UR
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.88289526494E+02	Apriori delay (usec)	-1.86352416560E+02	Resid mbdelay (usec)	4.35305E-06	+/-	3.1E-03
Sband delay (usec)	-1.88289528560E+02	Apriori clock (usec)	-1.3359817E+01	Resid sbdelay (usec)	-1.93711E+00	+/-	3.1E-03
Phase delay (usec)	-1.86352415880E+02	Apriori clockrate (us/s)	-2.3655998E-07	Resid phdelay (usec)	6.80335E-07	+/-	6.7E-07
Delay rate (us/s)	-1.79099097809E-01	Apriori rate (us/s)	-1.79108243462E-01	Resid rate (us/s)	9.14565E-06	+/-	3.9E-09
Total phase (deg)	313.7	Apriori accel (us/s/s)	5.32754611354E-06	Resid phase (deg)	12.2	+/-	20.7

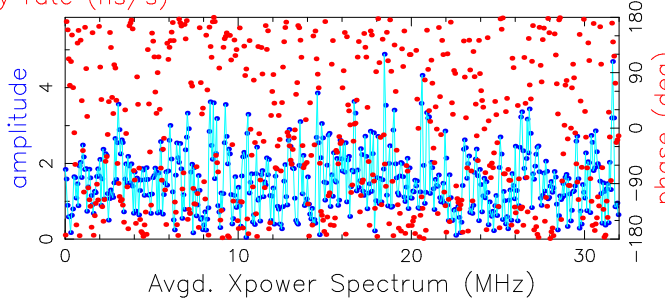
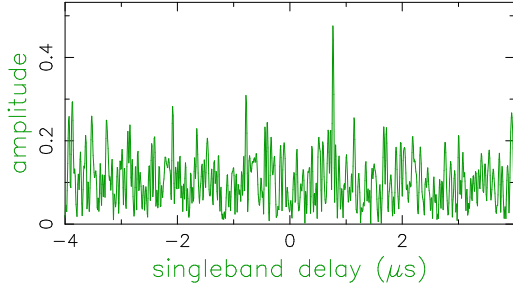
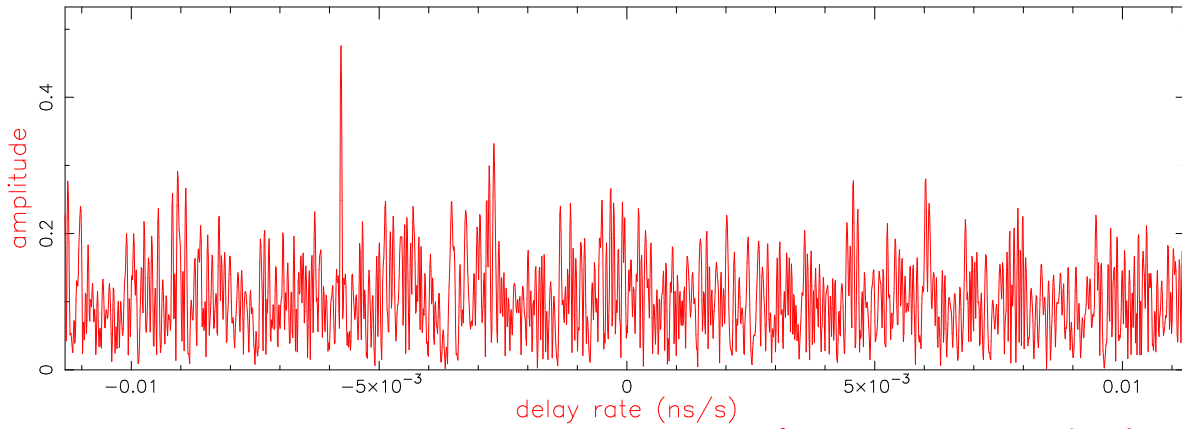
ph/seg (deg)	91.3	Theor.	177.5	Amplitude	0.645 +/- 0.117	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	359.0	Search (2048X8)	0.480	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Inc. seg. avg.	0.433	Inc. frq. avg.	0.634	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.0	18.1				Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
b: az 88.2 el 20.4 pa -44.0		o: az 85.0 el 20.8 pa -55.7		u,v (fr/asec)	1075.621 1304.570	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bo.W.69.0QR3WR

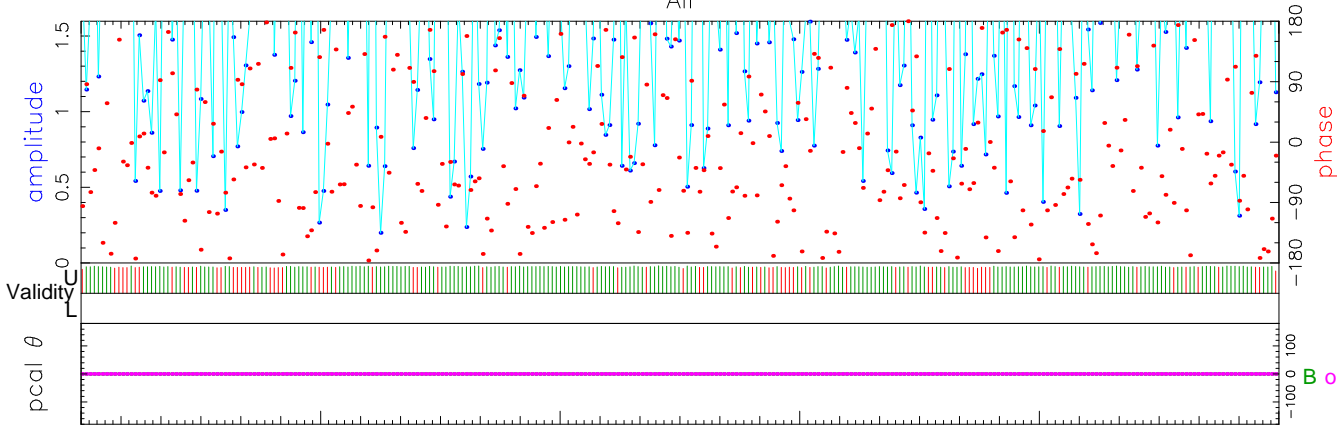
Fringe quality 0

SNR 5.5
Int time 287.774
Amp 0.533
Phase -107.2
PFD 9.7e-01
Delays (us)
SBD 0.767132
MBD -0.000004
Fringe rate (Hz)
-0.496112
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174158
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



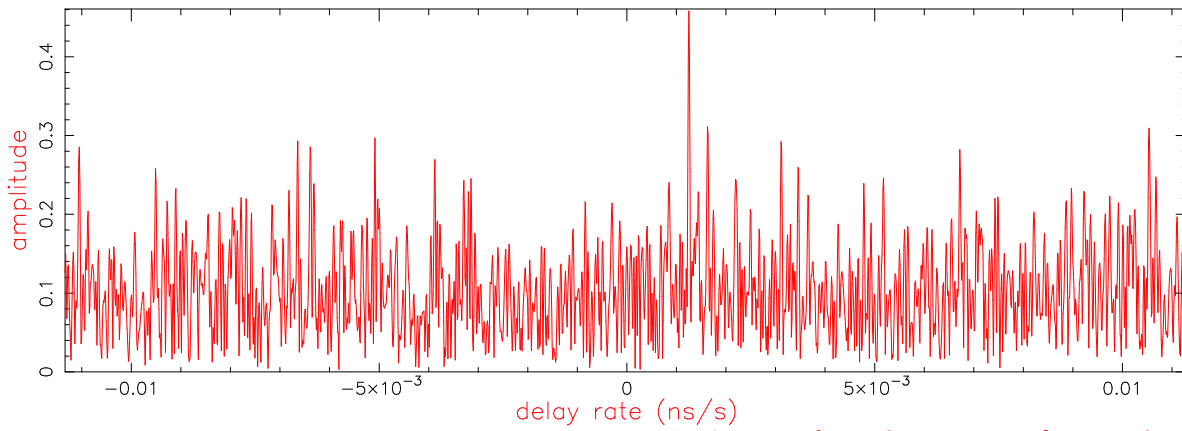
86204.00
-72.4
0.5
611.2
U/L 586/0
B 0
o 1000
B:0 0:0
B:0 0:0
B 1000
o 1000
B W06UL
o W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.13426124029E+03	Apriori delay (usec)	5.13349411094E+03	Resid mbdelay (usec)	-4.42541E-06	+/-	3.1E-03
Sband delay (usec)	5.13426124244E+03	Apriori clock (usec)	-9.4252892E+00	Resid sbdelay (usec)	7.67132E-01	+/-	3.1E-03
Phase delay (usec)	5.13349410860E+03	Apriori clockrate (us/s)	-6.6355997E-07	Resid phdelay (usec)	-2.33531E-06	+/-	6.7E-07
Delay rate (us/s)	-1.87534033419E+00	Apriori rate (us/s)	-1.87533457482E+00	Resid rate (us/s)	-5.75937E-06	+/-	3.8E-09
Total phase (deg)	-209.4	Apriori accel (us/s/s)	-2.2077777399E-05	Resid phase (deg)	-107.2	+/-	20.7

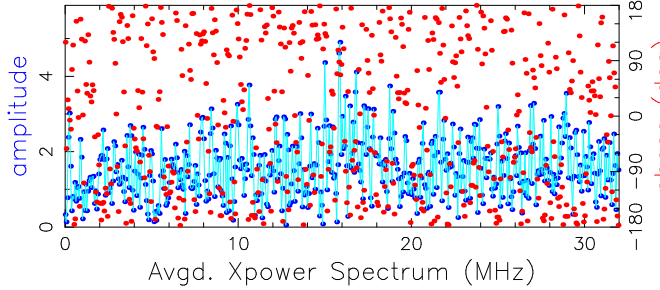
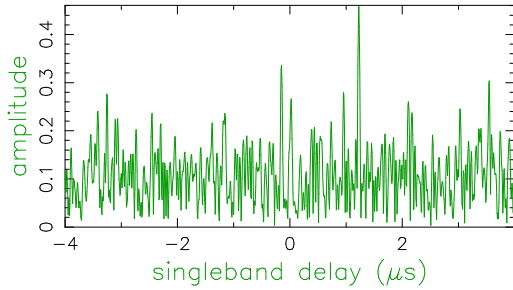
ph/seg (deg)	93.0	Theor.	177.0	Amplitude	0.533 +/- 0.096	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	361.0	Search (2048X8)	0.469	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.361	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.522	Inc. frq. avg.	0.522	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 11157.947 860.633 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bo.W.74.0QR3WR



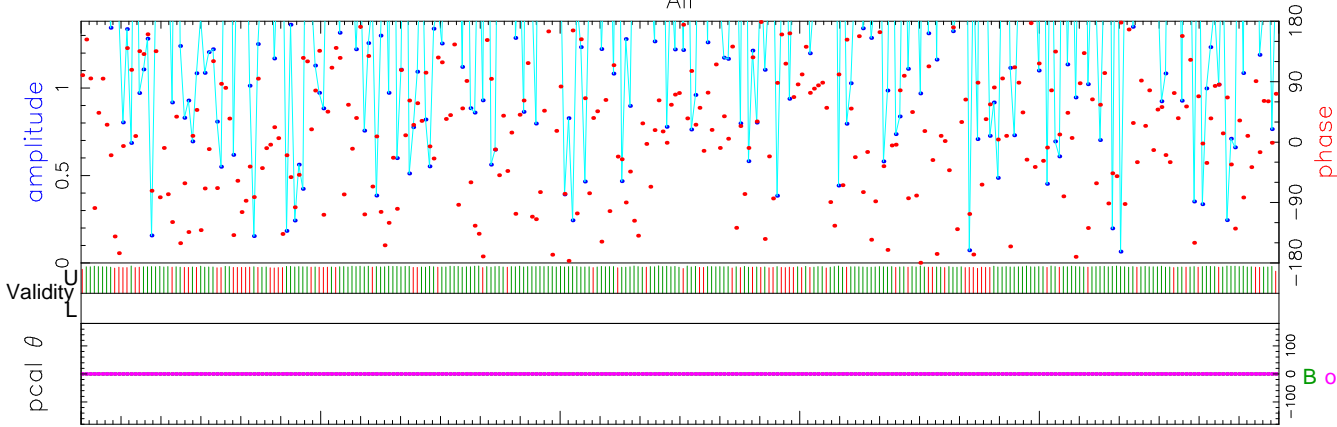
Fringe quality 0

SNR 5.3
Int time 287.771
Amp 0.461
Phase -129.1
PFD 1.0e+00
Delays (us)
SBD 1.225791
MBD 0.000005
Fringe rate (Hz)
0.107629
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
33.1
0.5
669.9
U/L 586/0
B 0
o 1000
B:0 0:0
B:0 0:0
B 1000
o 1000
B W06UR
o W06UL

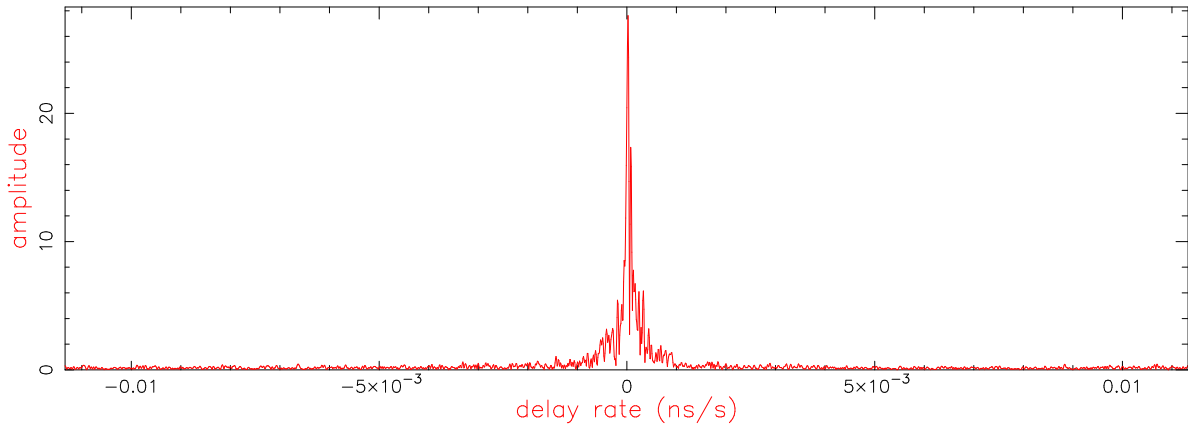
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.13471990557E+03	Apriori delay (usec)	5.13349411094E+03	Resid mbdelay (usec)	4.64517E-06	+/-	3.2E-03
Sband delay (usec)	5.13471990194E+03	Apriori clock (usec)	-9.4252892E+00	Resid sbdelay (usec)	1.22579E+00	+/-	3.2E-03
Phase delay (usec)	5.13349411200E+03	Apriori clockrate (us/s)	-6.6355997E-07	Resid phdelay (usec)	1.06833E-06	+/-	7.0E-07
Delay rate (us/s)	-1.8753332535E+00	Apriori rate (us/s)	-1.87533457482E+00	Resid rate (us/s)	1.24947E-06	+/-	4.0E-09
Total phase (deg)	-231.3	Apriori accel (us/s/s)	-2.20777777399E-05	Resid phase (deg)	-129.1	+/-	21.6

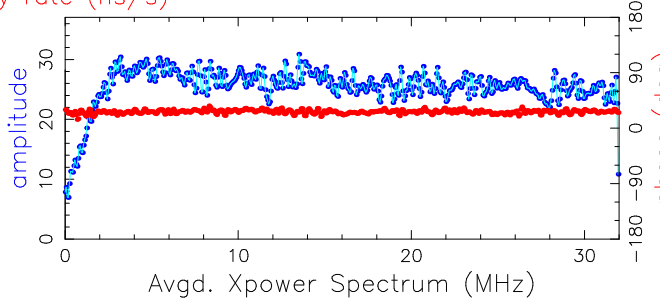
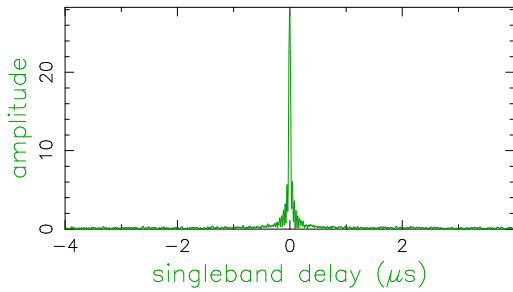
ph/seg (deg)	RMS 90.5	Theor. 184.5	Amplitude 0.461 +/- 0.087	Search (2048X8) 0.452	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	352.0	322.0	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	10.8	Inc. seg. avg. 0.282	0.282	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.1	18.8	Inc. frq. avg. 0.452	0.452	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 247.2 el 37.9 pa 37.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 11157.947 860.633 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bo.W.83.0QR3WR

Fringe quality 6

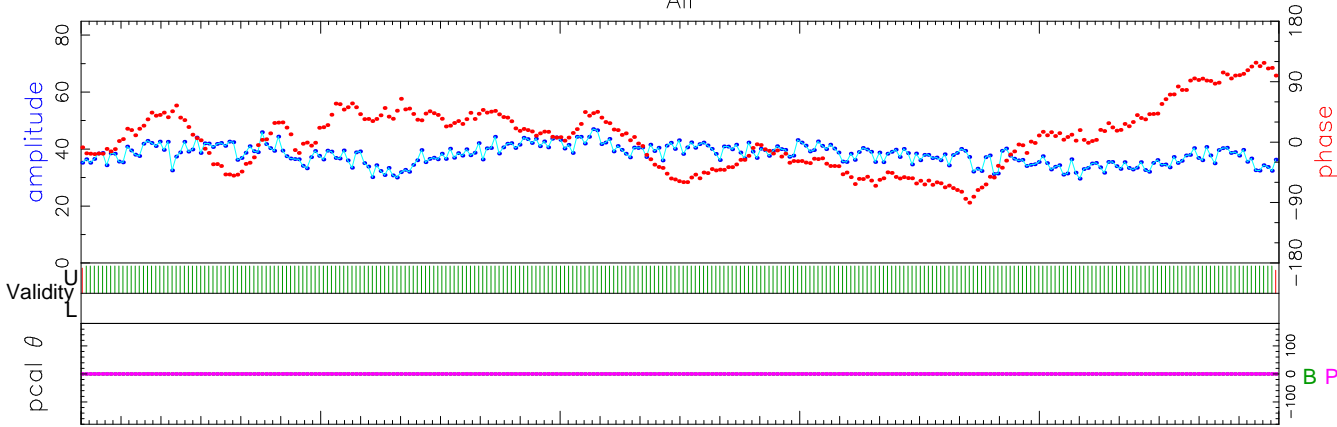


SNR 333.2
 Int time 296.612
 Amp 28.296
 Phase 94.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.003925
 MBD -0.000002
 Fringe rate (Hz)
 0.001988
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174152
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All

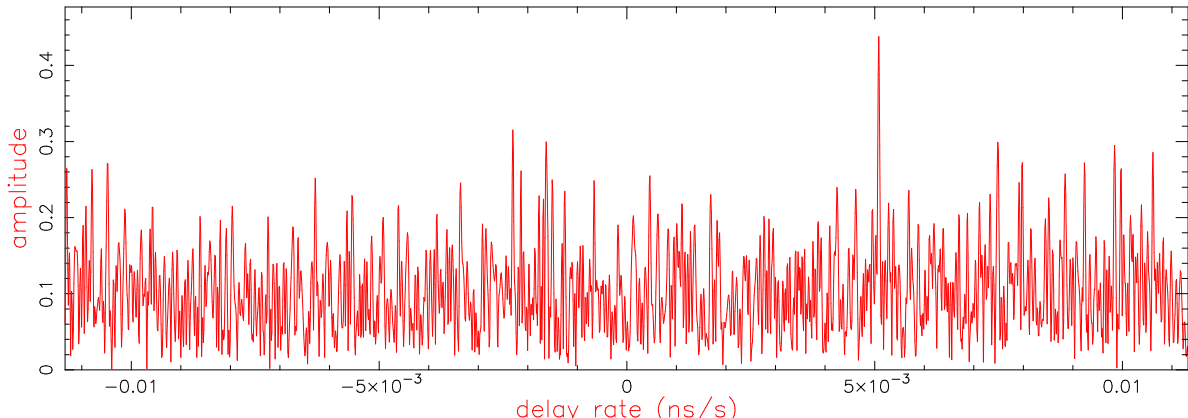


86204.00
 4.1
 27.6
 512.5
 U/L 586/0
 B 0
 P 0
 B:P 0:0
 B:P 0:0
 B 1000
 P 1000
 B W06UL
 P W06UL

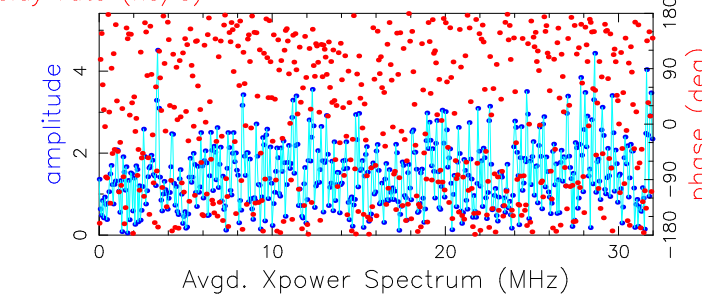
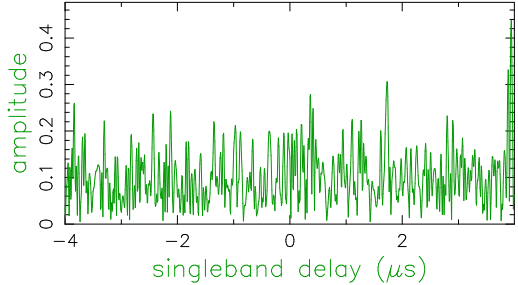
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-3.16823098084E+03	Apriori delay (usec)	-3.16822705808E+03	Resid mbdelay (usec)	-1.82356E-06	+/-	5.2E-05
Sband delay (usec)	-3.16823098258E+03	Apriori clock (usec)	1.9977873E+01	Resid sbdelay (usec)	-3.92450E-03	+/-	5.2E-05
Phase delay (usec)	-3.16822705795E+03	Apriori clockrate (us/s)	2.5300001E-07	Resid phdelay (usec)	1.33525E-07	+/-	1.1E-08
Delay rate (us/s)	3.44394132725E-02	Apriori rate (us/s)	3.44393901913E-02	Resid rate (us/s)	2.30813E-08	+/-	6.4E-11
Total phase (deg)	-187.5	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	94.5	+/-	0.3

ph/seg (deg)	45.8	RMS	2.9	Theor.	2.9	Amplitude	28.296 +/- 0.085	Search (2048X8)	27.599	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	36.6	Interp.	0.000	Inc. seg. avg.	38.020	Inc. frq. avg.	27.624	u,v (fr/asec)	-176.511 1949.312	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	38.020	Inc. frq. avg.	27.624	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000	dr window (ns/s)	-0.011 0.011
amp/frq (%)	2.4	Inc. frq. avg.	27.624	Data rate (Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00	simultaneous interpolator	



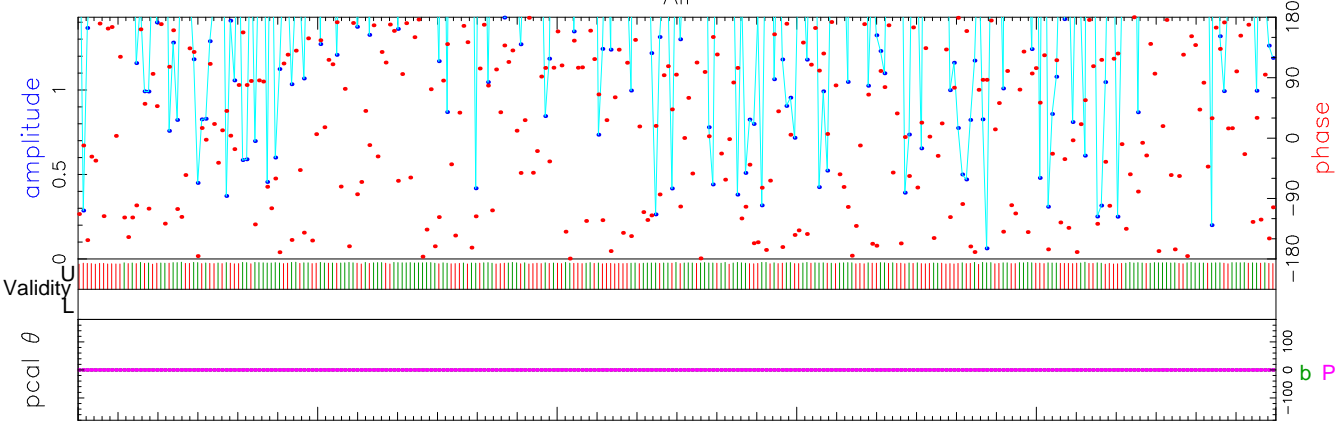
Fringe quality 0
SNR 5.1
Int time 285.544
Amp 0.477
Phase -191.5
PFD 1.0e+00
Delays (us)
SBD 3.936771
MBD 0.000006
Fringe rate (Hz)
0.437881
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
151.6
0.5
1016.9
U/L 586/0
b 1000
P 0
b:P 0:0
b:P 0:0
b 1000
P 1000
b W06UL
p W06UL

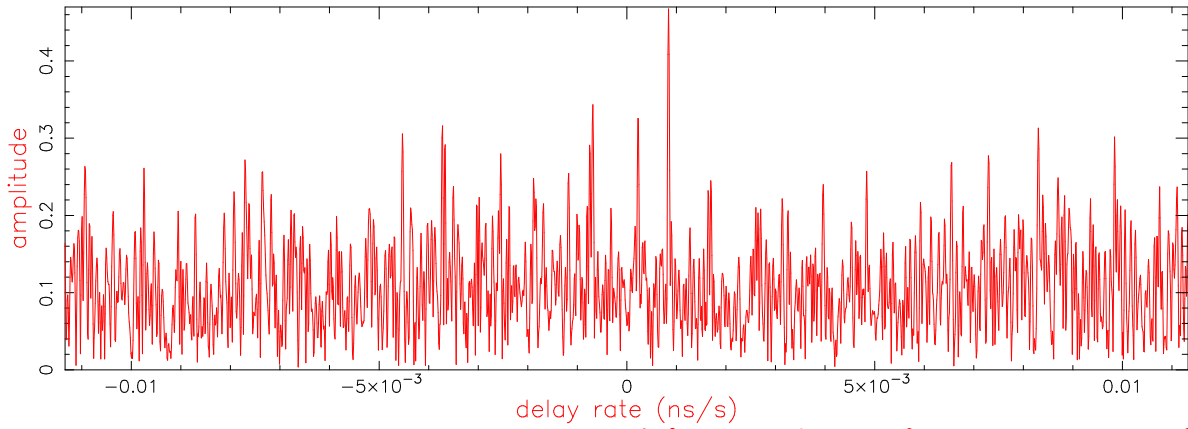
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.48413681367E+03	Apriori delay (usec)	-8.48807358558E+03	Resid mbdelay (usec)	5.63556E-06	+/-	3.4E-03
Sband delay (usec)	-8.48413681458E+03	Apriori clock (usec)	1.6043346E+01	Resid sbdelay (usec)	3.93677E+00	+/-	3.4E-03
Phase delay (usec)	-8.48807358069E+03	Apriori clockrate (us/s)	6.8000000E-07	Resid phdelay (usec)	4.88892E-06	+/-	7.3E-07
Delay rate (us/s)	1.73067080491E+00	Apriori rate (us/s)	1.73066572155E+00	Resid rate (us/s)	5.08336E-06	+/-	4.2E-09
Total phase (deg)	-69.7	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	-191.5	+/-	22.6

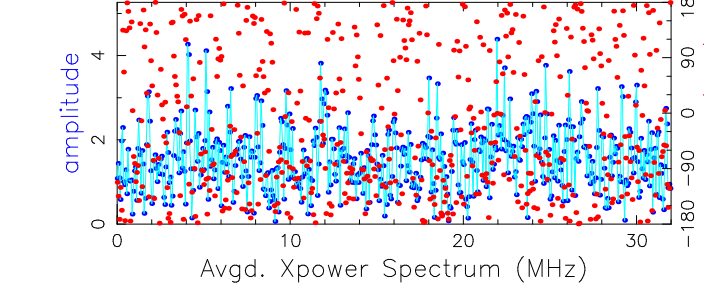
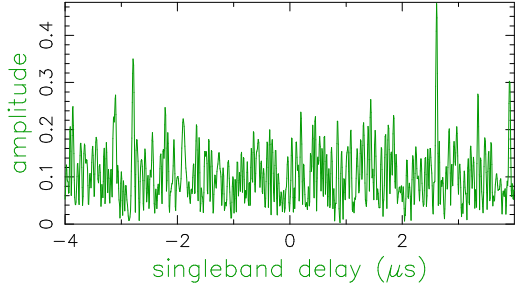
ph/seg (deg)	RMS 93.6	Theor. 193.7	Amplitude Search (2048X8) 0.477 +/- 0.094	0.433	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	401.4	338.0	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.3	Inc. seg. avg. 0.306	0.306	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1	19.7	Inc. frq. avg. 0.467	0.467	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 88.2 el 20.4 pa -44.0 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10258.837 2393.250 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bP.W.14.0QR3WR



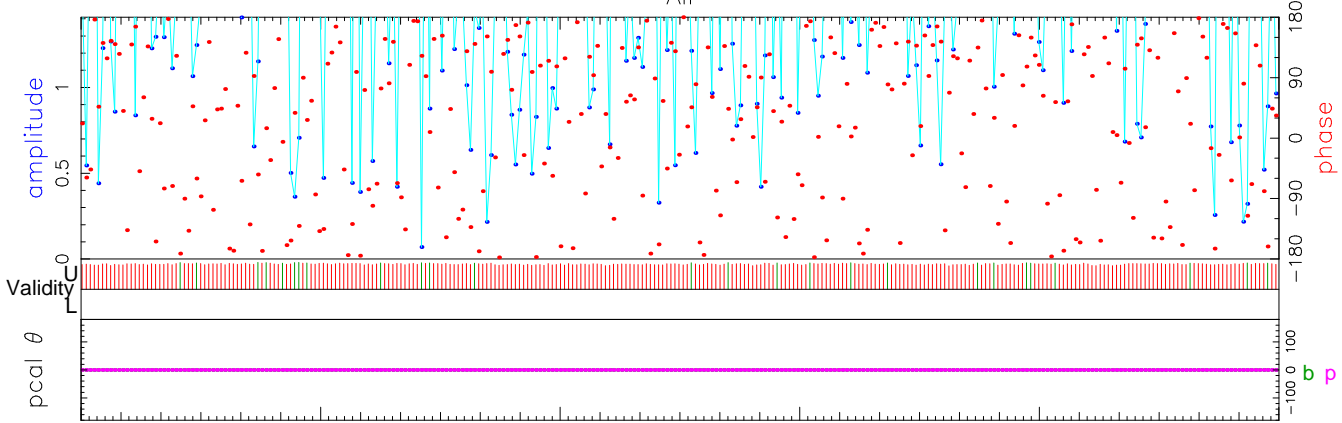
Fringe quality 0
SNR 5.3
Int time 275.321
Amp 0.470
Phase -250.3
PFD 1.0e+00
Delays (us)
SBD 2.610764
MBD 0.000007
Fringe rate (Hz)
0.072041
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
141.6
0.5
847.2
U/L 586/0
b 1000
p 1000
b:p 0:0
b:p 0:0
b 1000
p 1000
b W06UR
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.90893416720E+03	Apriori delay (usec)	-2.91154493496E+03	Resid mbdelay (usec)	7.24087E-06	+/-	3.2E-03
Sband delay (usec)	-2.90893417096E+03	Apriori clock (usec)	-1.5339180E+01	Resid sbdelay (usec)	2.61076E+00	+/-	3.2E-03
Phase delay (usec)	-2.91154493039E+03	Apriori clockrate (us/s)	2.3800000E-07	Resid phdelay (usec)	4.56735E-06	+/-	6.9E-07
Delay rate (us/s)	-1.47557977199E-01	Apriori rate (us/s)	-1.47558813527E-01	Resid rate (us/s)	8.36328E-07	+/-	4.0E-09
Total phase (deg)	-141.4	Apriori accel (us/s/s)	2.11137257319E-05	Resid phase (deg)	-250.3	+/-	21.5

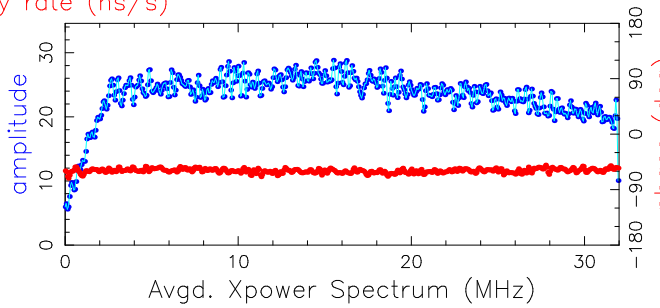
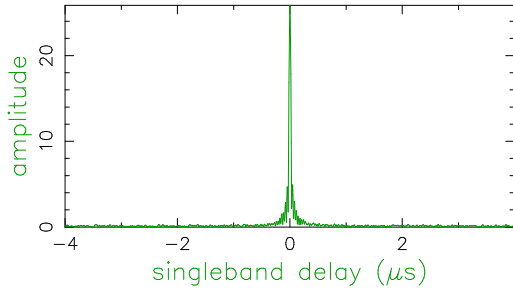
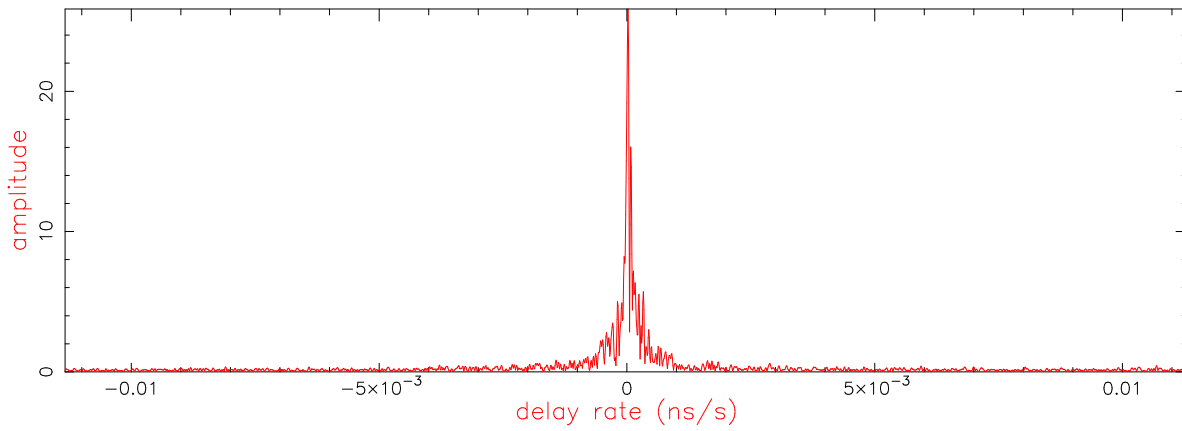
ph/seg (deg)	90.5	Theor.	184.4	Amplitude	0.470 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	368.3	Search (2048X8)	0.452	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.309	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.3	Inc. frq. avg.	0.460	Inc. frq. avg.	0.460	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 907.562 2018.769 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bp.W.20.0QR3WR

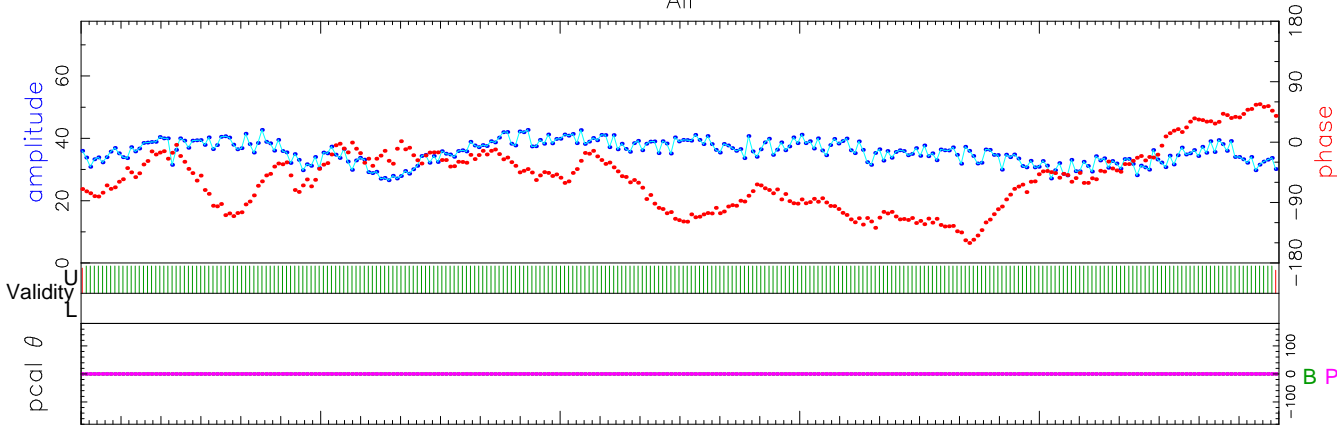
Fringe quality 5

SNR 304.5
Int time 296.612
Amp 25.866
Phase -69.2
PFD 0.0e+00
Delays (us)
SBD 0.000564
MBD -0.000002
Fringe rate (Hz)
0.002022
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-56.1
25.9
513.1
U/L 586/0
B 0
P 0
B:P 0:0
B:P 0:0
B 1000
P 1000
B W06UR
P W06UR

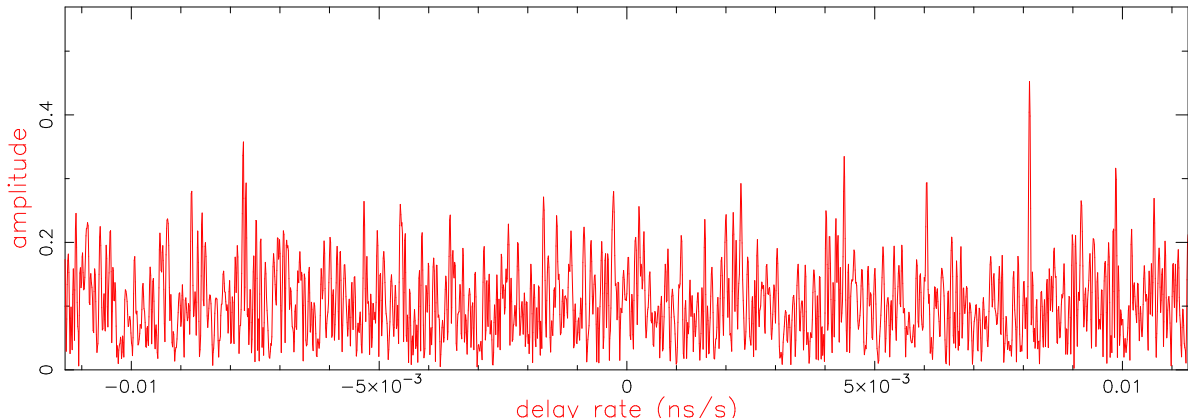
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.16822649143E+03	Apriori delay (usec)	-3.16822705808E+03	Resid mbdelay (usec)	-1.76760E-06	+/-	5.7E-05
Sband delay (usec)	-3.16822649358E+03	Apriori clock (usec)	1.9977873E+01	Resid sbdelay (usec)	5.64500E-04	+/-	5.7E-05
Phase delay (usec)	-3.16822705989E+03	Apriori clockrate (us/s)	2.5300001E-07	Resid phdelay (usec)	-1.81005E-06	+/-	1.2E-08
Delay rate (us/s)	3.44394136601E-02	Apriori rate (us/s)	3.44393901913E-02	Resid rate (us/s)	2.34688E-08	+/-	7.0E-11
Total phase (deg)	-351.2	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	-69.2	+/-	0.4

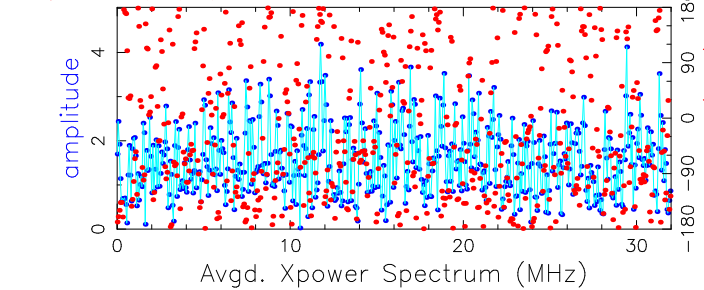
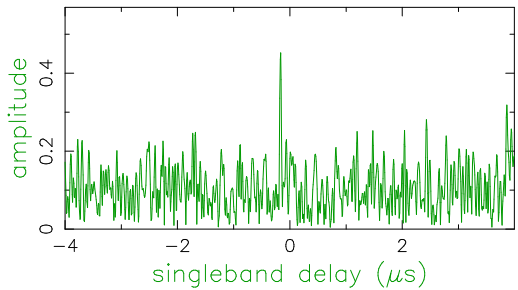
ph/seg (deg)	45.6	RMS	3.2	Theor.	Amplitude	25.866 +/- 0.085	Search (2048X8)	25.811	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	40.2		5.6		Interp.	0.000			Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0		0.2		Inc. seg. avg.	35.582			Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0		0.3		Inc. frq. avg.	25.854			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BP.W.28.0QR3WR

Fringe quality 0

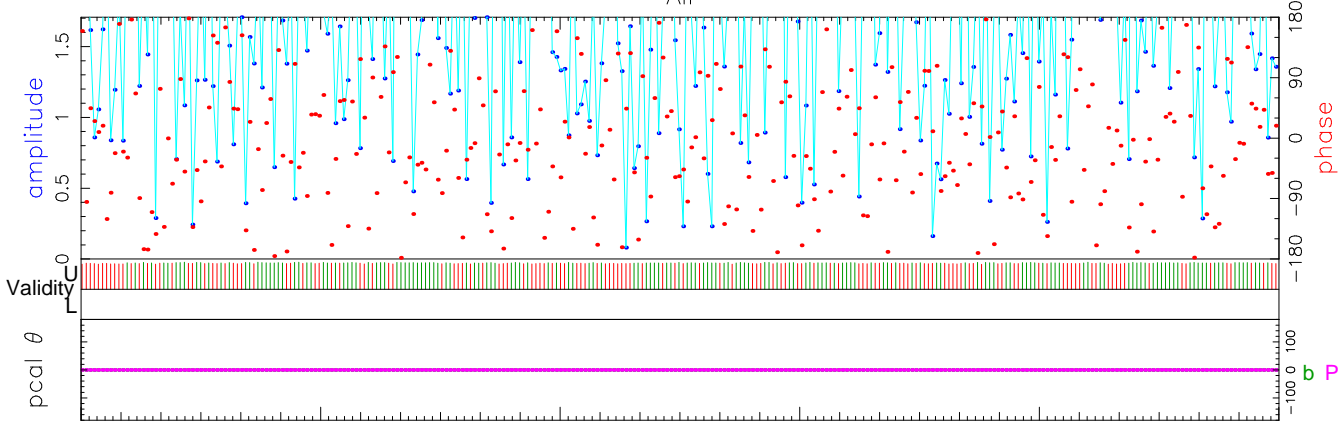


SNR 5.3
Int time 285.545
Amp 0.569
Phase 229.2
PFD 1.0e+00
Delays (us)
SBD -0.166406
MBD 0.000007
Fringe rate (Hz)
0.699698
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
-4.8 Phase
0.6 Ampl.
491.7 Sbd box
U/L 586/0 APs used
b 1000 PC freqs
P 0 PC freqs
b:P 0:0 PC phase
b:P 0:0 Manl PC
b 1000 PC amp
P 1000
b W06UR Chan ids
p W06UR Chan ids

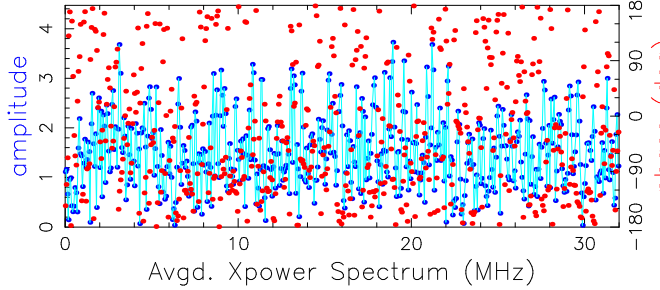
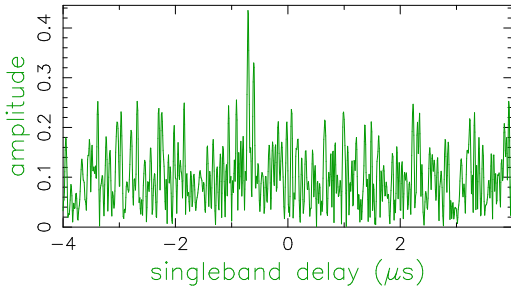
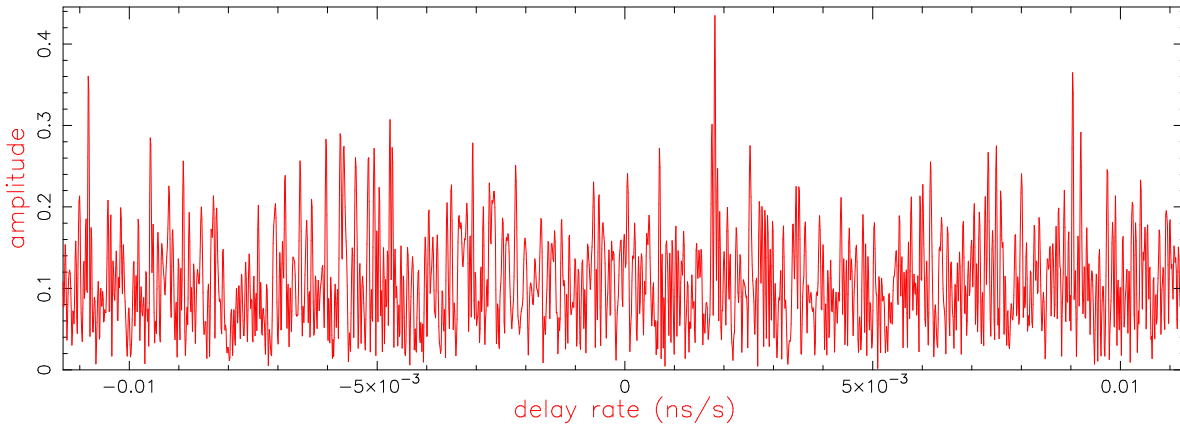
Group delay (usec)(sbd)	-8.48823998614E+03	Apriori delay (usec)	-8.48807358558E+03	Resid mbdelay (usec)	7.03420E-06	+/-	3.3E-03
Sband delay (usec)	-8.48823999158E+03	Apriori clock (usec)	1.6043346E+01	Resid sbdelay (usec)	-1.66406E-01	+/-	3.3E-03
Phase delay (usec)	-8.48807358573E+03	Apriori clockrate (us/s)	6.8000000E-07	Resid phdelay (usec)	-1.54516E-07	+/-	7.0E-07
Delay rate (us/s)	1.73067384435E+00	Apriori rate (us/s)	1.73066572155E+00	Resid rate (us/s)	8.12280E-06	+/-	4.0E-09
Total phase (deg)	351.0	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	229.2	+/-	21.7

ph/seg (deg) 90.9 186.0 Search (2048X8) 0.444 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 374.0 324.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 10.9 Inc. seg. avg. 0.372 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 0.9 19.0 Inc. frq. avg. 0.554 Data rate (Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 88.2 el 20.4 pa -44.0 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10258.837 2393.250 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bP.W.29.0QR3WR

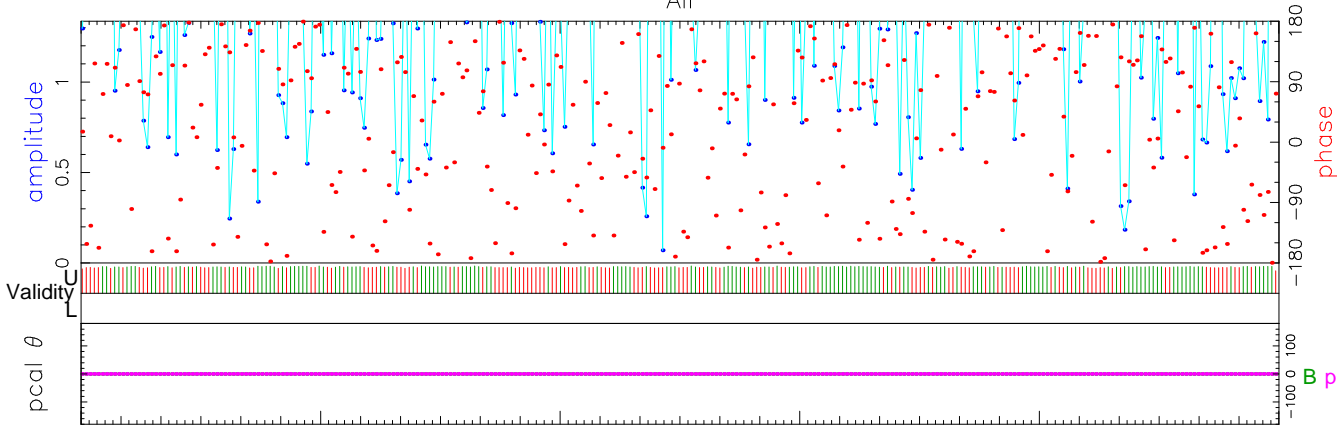
Fringe quality 0

SNR 5.1
Int time 285.678
Amp 0.445
Phase 243.9
PFD 1.0e+00
Delays (us)
SBD -0.707774
MBD 0.000007
Fringe rate (Hz)
0.156313
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
136.5
0.4
422.4
U/L 586/0
B 0
p 1000
B:p 0:0
B:p 0:0
B 1000
p 1000
B W06UR
p W06UR

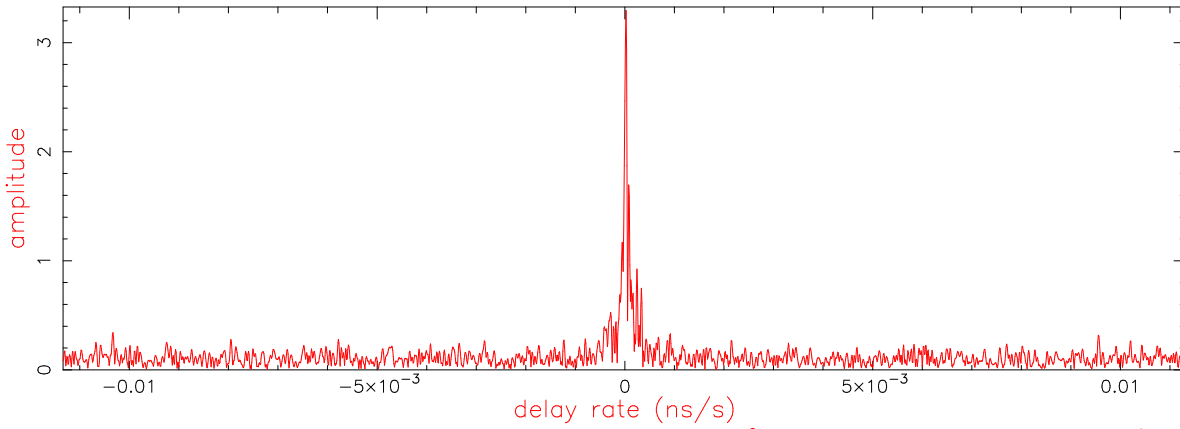
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.40759381357E+03	Apriori delay (usec)	2.40830159254E+03	Resid mbdelay (usec)	7.21405E-06	+/-	3.4E-03
Sband delay (usec)	2.40759381904E+03	Apriori clock (usec)	-1.1404653E+01	Resid sbdelay (usec)	-7.07774E-01	+/-	3.4E-03
Phase delay (usec)	2.40830159694E+03	Apriori clockrate (us/s)	-1.8900001E-07	Resid phdelay (usec)	4.40237E-06	+/-	7.3E-07
Delay rate (us/s)	-1.84378333024E+00	Apriori rate (us/s)	-1.84378514489E+00	Resid rate (us/s)	1.81464E-06	+/-	4.2E-09
Total phase (deg)	309.1	Apriori accel (us/s/s)	-6.29159812157E-06	Resid phase (deg)	243.9	+/-	22.5

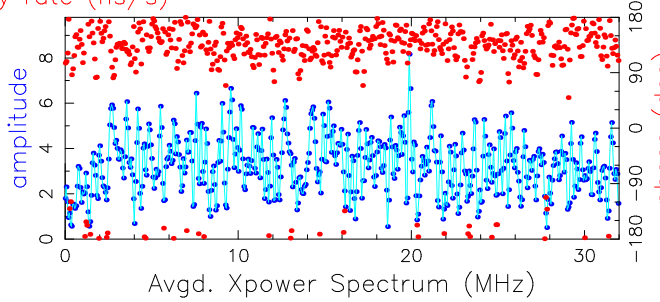
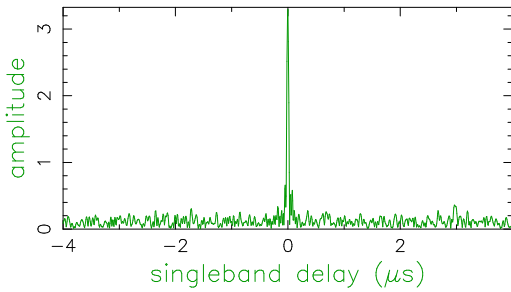
ph/seg (deg)	91.8	Theor.	192.6	Amplitude	0.445 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	399.8	Search (2048X8)	0.431	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.288	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.3	Inc. frq. avg.	0.431	Inc. frq. avg.	0.431	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10989.888 1574.831 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bp.W.32.0QR3WR

Fringe quality 9

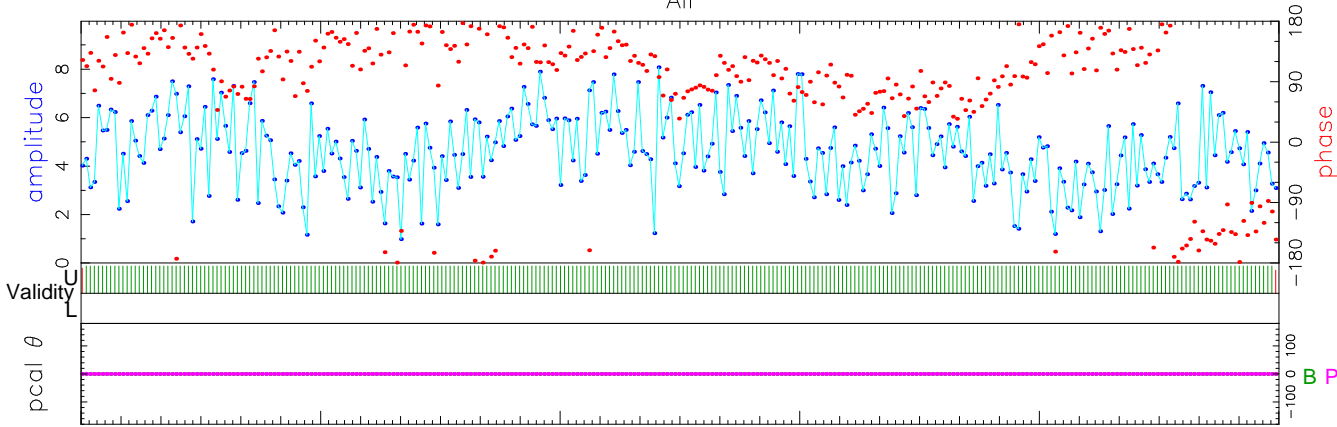


SNR 39.2
 Int time 296.612
 Amp 3.327
 Phase 182.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.002505
 MBD -0.000001
 Fringe rate (Hz)
 0.002037
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174155
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
 124.8
 3.3
 512.7
 U/L 586/0
 B 0
 P 0
 B:P 0:0
 B:P 0:0
 B 1000
 P 1000
 B W06UL
 P W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-3.16822956493E+03	Apriori delay (usec)	-3.16822705808E+03	Resid mbdelay (usec)	-1.16577E-06	+/-	4.4E-04
Sband delay (usec)	-3.16822956308E+03	Apriori clock (usec)	1.9977873E+01	Resid sbdelay (usec)	-2.50500E-03	+/-	4.4E-04
Phase delay (usec)	-3.16822705406E+03	Apriori clockrate (us/s)	2.5300001E-07	Resid phdelay (usec)	4.02560E-06	+/-	9.4E-08
Delay rate (us/s)	3.44394138401E-02	Apriori rate (us/s)	3.44393901913E-02	Resid rate (us/s)	2.36488E-08	+/-	5.4E-10
Total phase (deg)	-99.4	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	182.6	+/-	2.9

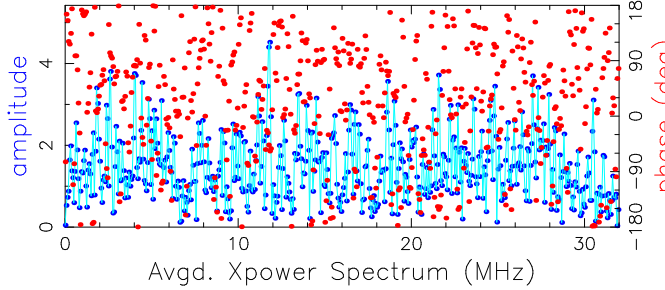
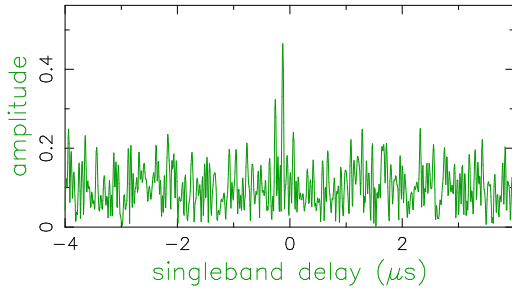
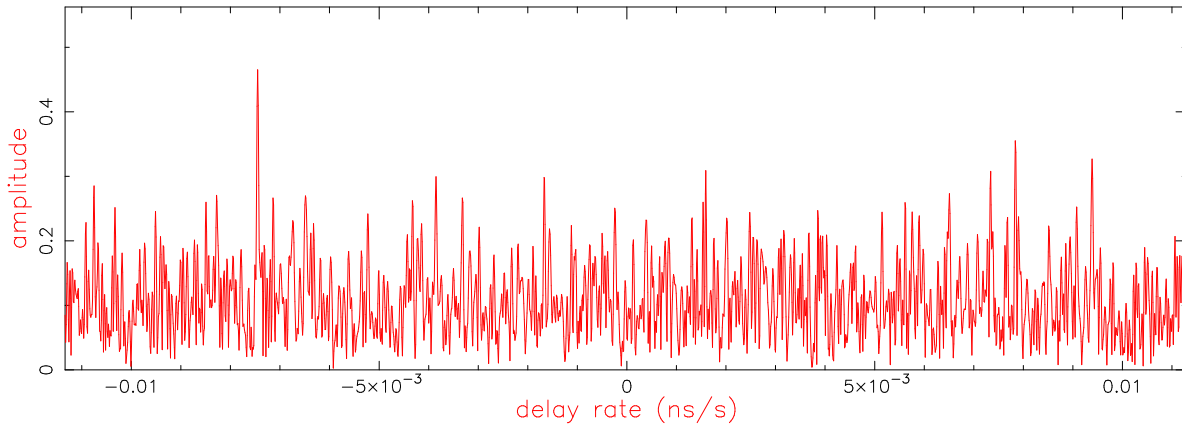
ph/seg (deg)	48.7	Theor.	25.0	Amplitude	3.327 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	59.9	Search (2048X8)	3.289	Search	3.289	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	4.214	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.0	Inc. frq. avg.	3.294	Inc. seg. avg.	4.214	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	3.294	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

B: az 247.2 el 37.9 pa 37.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BP.W.42.0QR3WR

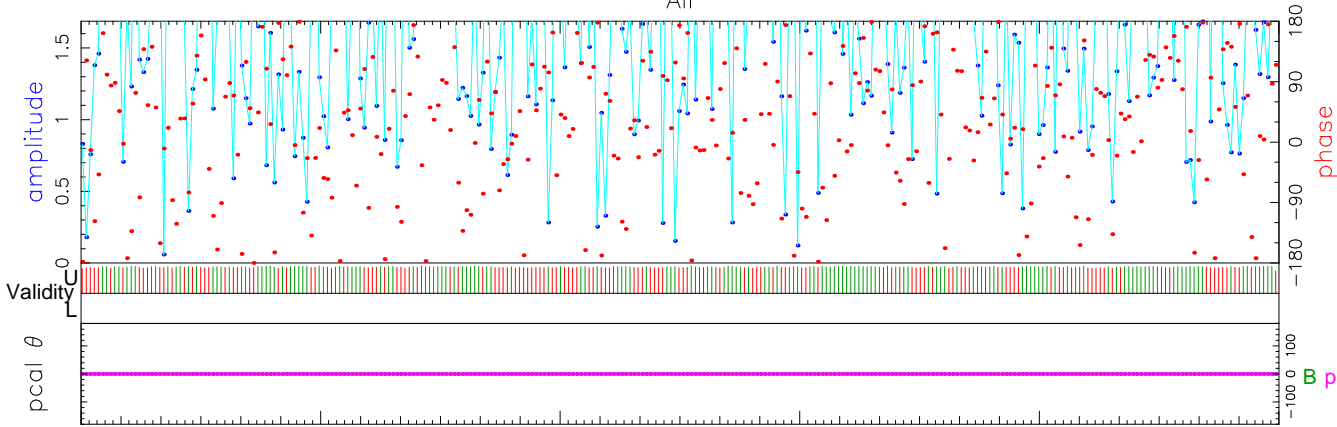
Fringe quality 0

SNR 5.4
Int time 285.678
Amp 0.562
Phase 102.5
PFD 1.0e+00
Delays (us)
SBD -0.126908
MBD -0.000004
Fringe rate (Hz)
-0.641252
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
58.6
0.6
496.8
U/L 586/0
B 0
p 1000
B:p 0:0
B:p 0:0
B 1000
p 1000
B W06UL
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

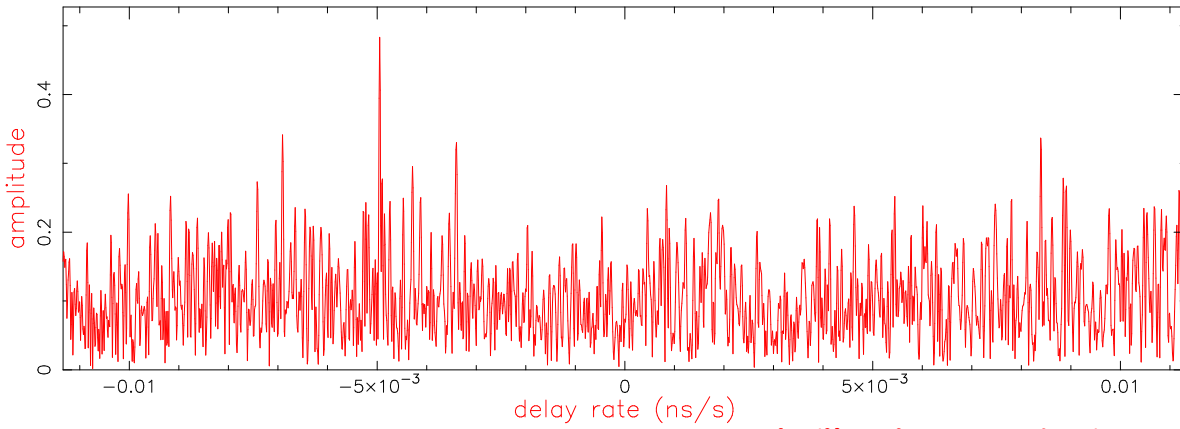
Group delay (usec)(sbd)	2.40817467992E+03	Apriori delay (usec)	2.40830159254E+03	Resid mbdelay (usec)	-4.35076E-06	+/-	3.2E-03
Sband delay (usec)	2.40817468454E+03	Apriori clock (usec)	-1.1404653E+01	Resid sbdelay (usec)	-1.26908E-01	+/-	3.2E-03
Phase delay (usec)	2.40830159442E+03	Apriori clockrate (us/s)	-1.8900001E-07	Resid phdelay (usec)	1.88883E-06	+/-	6.8E-07
Delay rate (us/s)	-1.84379258918E+00	Apriori rate (us/s)	-1.84378514489E+00	Resid rate (us/s)	-7.44430E-06	+/-	3.9E-09
Total phase (deg)	167.7	Apriori accel (us/s/s)	-6.29159812157E-06	Resid phase (deg)	102.5	+/-	21.2

ph/seg (deg)	89.1	Theor.	181.4	Amplitude	0.562 +/- 0.104	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	368.8	Search (2048X8)	0.455	Search (2048X8)	0.455	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.6	Inc. seg. avg.	0.375	Inc. seg. avg.	0.375	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.550	Inc. frq. avg.	0.550	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

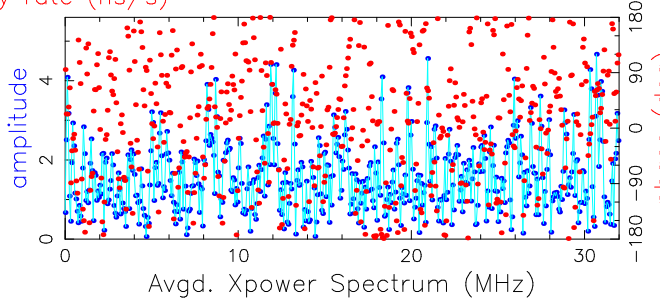
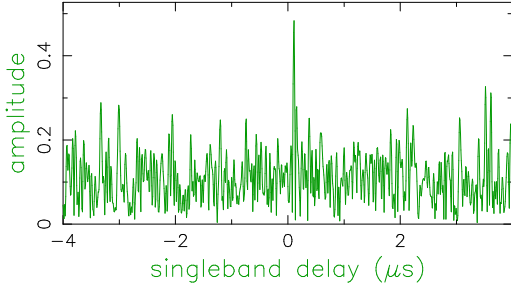
B: az 247.2 el 37.9 pa 37.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10989.888 1574.831 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bp.W.45.0QR3WR

Fringe quality 0



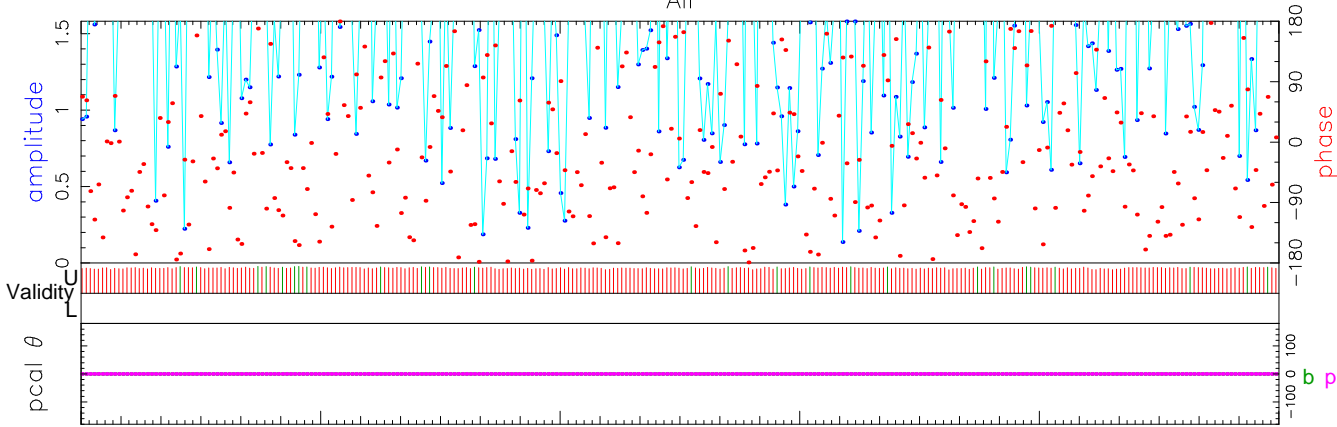
SNR 5.5
Int time 275.320
Amp 0.527
Phase -19.9
PFD 9.8e-01
Delays (us)
SBD 0.107428
MBD -0.000007
Fringe rate (Hz)
-0.426324
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-64.6
0.5
526.7
U/L 586/0
b 1000
p 1000
b:p 0:0
b:p 0:0
b 1000
p 1000
b W06UL
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.91143751100E+03	Apriori delay (usec)	-2.91154493496E+03	Resid mbdelay (usec)	-7.24502E-06	+/-	3.1E-03
Sband delay (usec)	-2.91143750746E+03	Apriori clock (usec)	-1.5339180E+01	Resid sbdelay (usec)	1.07428E-01	+/-	3.1E-03
Phase delay (usec)	-2.91154493704E+03	Apriori clockrate (us/s)	2.3800000E-07	Resid phdelay (usec)	-2.08466E-06	+/-	6.7E-07
Delay rate (us/s)	-1.47563762731E-01	Apriori rate (us/s)	-1.47558813527E-01	Resid rate (us/s)	-4.94920E-06	+/-	3.9E-09
Total phase (deg)	-270.9	Apriori accel (us/s/s)	2.11137257319E-05	Resid phase (deg)	-19.9	+/-	20.7

ph/seg (deg)	89.7	Theor.	177.6	Amplitude	0.527 +/- 0.095	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	347.3	Search (2048X8)	0.479	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.349	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.515	Inc. frq. avg.	0.515	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

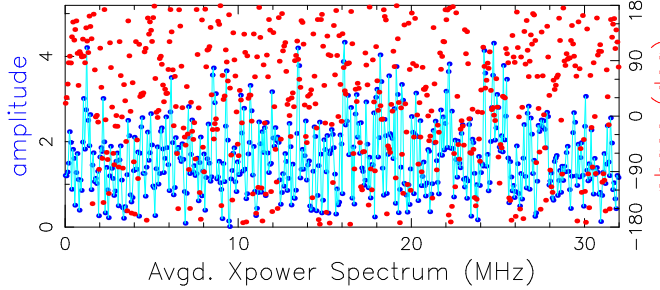
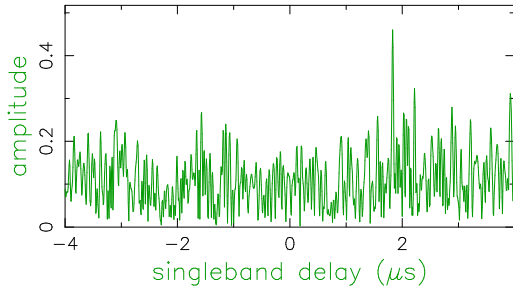
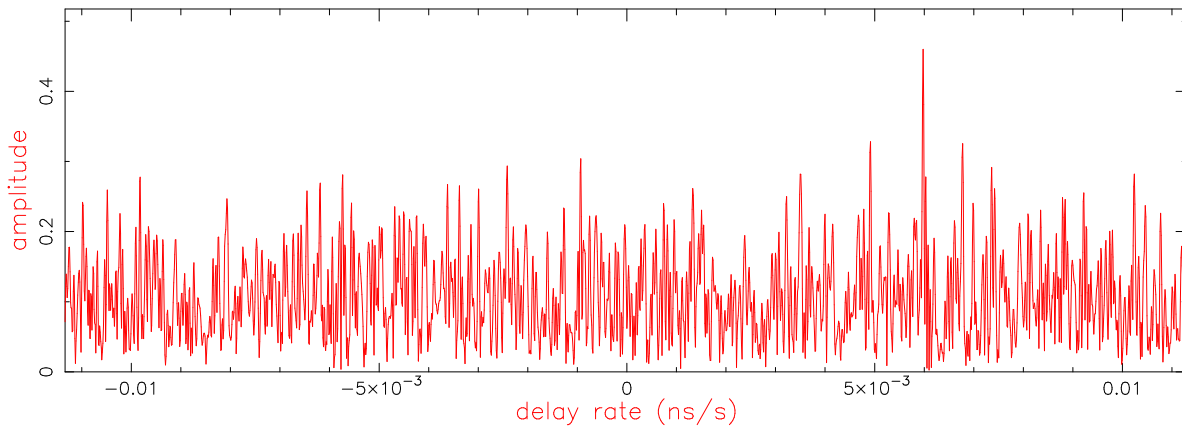
b: az 88.2 el 20.4 pa -44.0 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 907.562 2018.769 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bp.W.50.0QR3WR

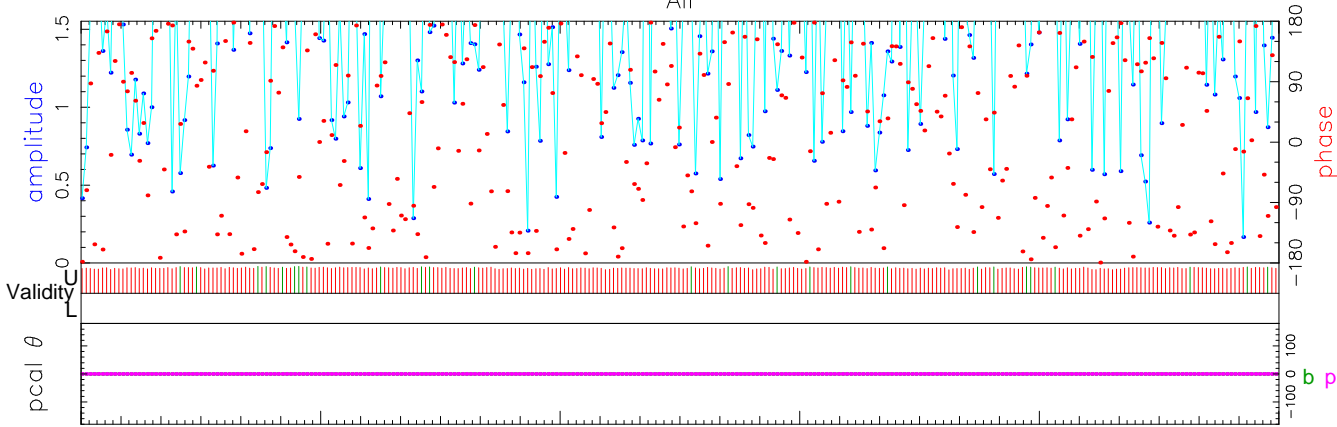
Fringe quality 0

SNR 5.2
Int time 275.326
Amp 0.517
Phase -201.5
PFD 1.0e+00
Delays (us)
SBD 1.828668
MBD 0.000004
Fringe rate (Hz)
0.514943
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174152
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
170.9
0.5
747.1
U/L 586/0
b 1000
p 1000
b:p 0:0
b:p 0:0
b 1000
p 1000
b W06UL
p W06UL

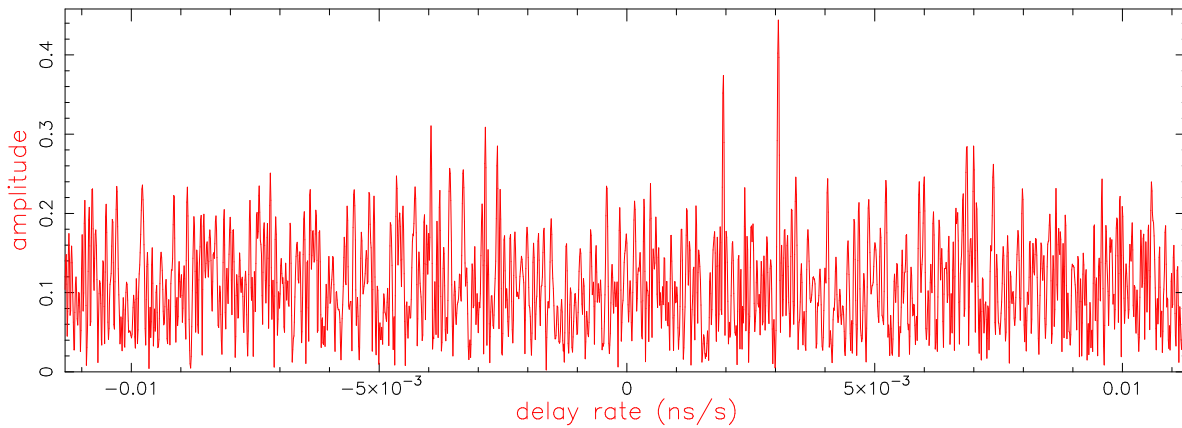
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.90971626834E+03	Apriori delay (usec)	-2.91154493496E+03	Resid mbdelay (usec)	4.37799E-06	+/-	3.3E-03
Sband delay (usec)	-2.90971626646E+03	Apriori clock (usec)	-1.5339180E+01	Resid sbdelay (usec)	1.82867E+00	+/-	3.3E-03
Phase delay (usec)	-2.91154492945E+03	Apriori clockrate (us/s)	2.3800000E-07	Resid phdelay (usec)	5.51055E-06	+/-	7.1E-07
Delay rate (us/s)	-1.47552835546E-01	Apriori rate (us/s)	-1.47558813527E-01	Resid rate (us/s)	5.97798E-06	+/-	4.1E-09
Total phase (deg)	-92.6	Apriori accel (us/s/s)	2.11137257319E-05	Resid phase (deg)	-201.5	+/-	21.9

ph/seg (deg)	89.6	Theor.	187.8	Amplitude	0.517 +/- 0.099	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	373.4	Search (2048X8)	0.456	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.332	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.508	Inc. frq. avg.	0.508	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

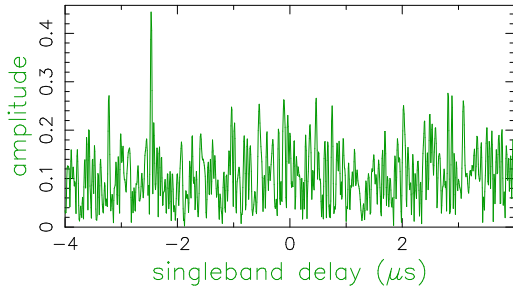
b: az 88.2 el 20.4 pa -44.0 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 907.562 2018.769 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bp.W.5.0QR3WR

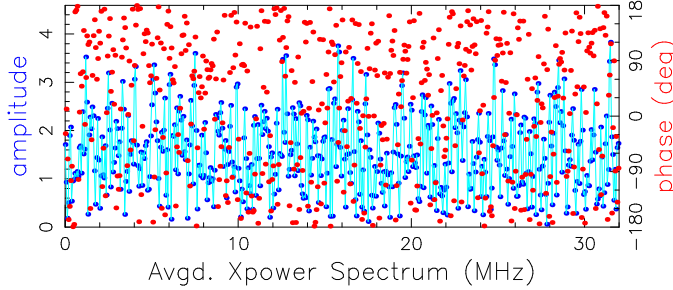


Fringe quality 0

SNR 5.1
Int time 285.544
Amp 0.458
Phase 294.8
PFD 1.0e+00
Delays (us)
SBD -2.467927
MBD 0.000006
Fringe rate (Hz)
0.263164
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

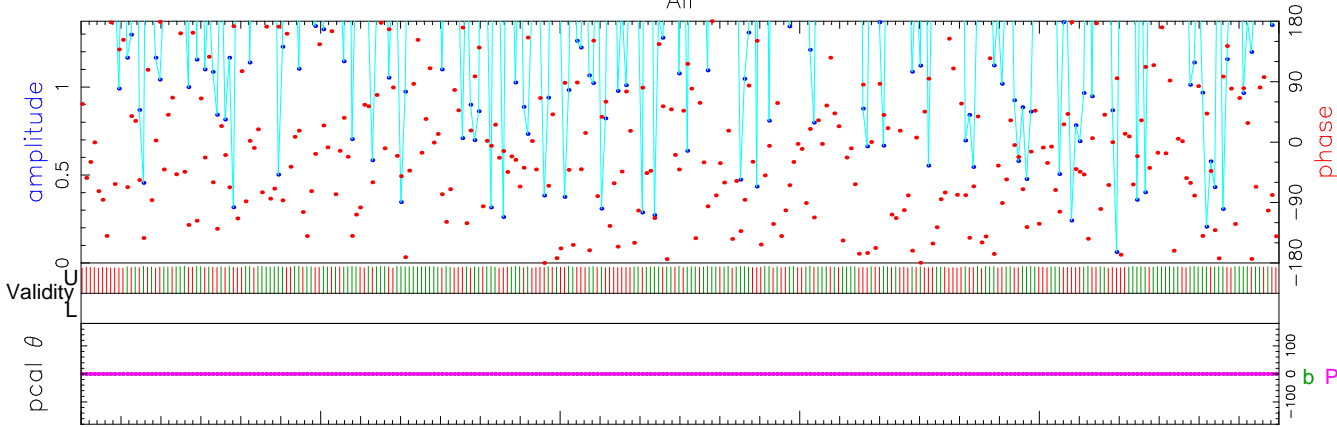


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



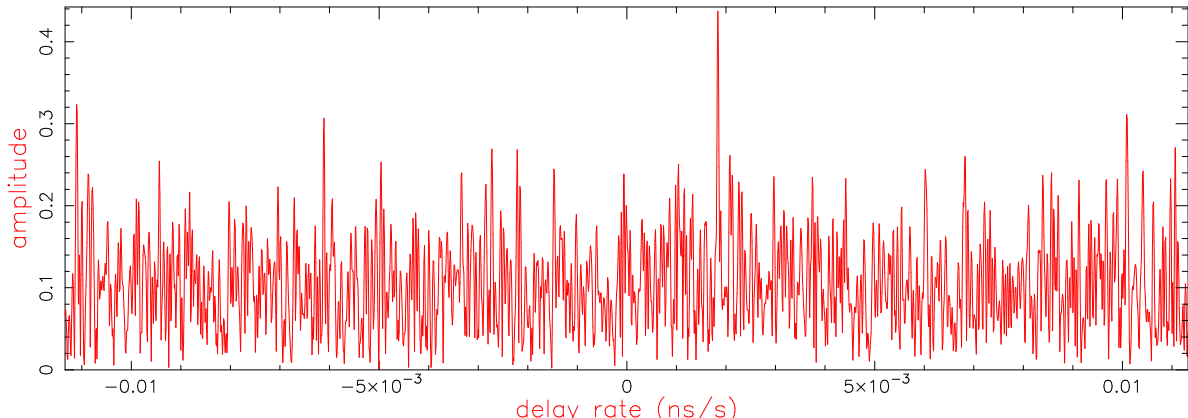
86204.00
-46.5
0.5
197.1
U/L 586/0
b 1000
P 0
b:P 0:0
b:P 0:0
b 1000
P 1000
b W06UL
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

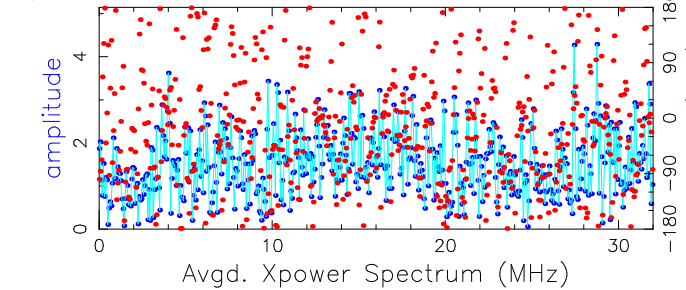
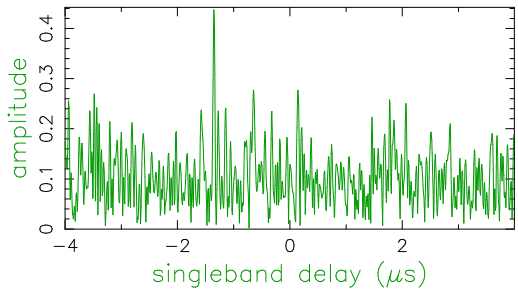
Group delay (usec)(sbd)	-8.49054151581E+03	Apriori delay (usec)	-8.48807358558E+03	Resid mbdelay (usec)	6.28704E-06	+/-	3.4E-03
Sband delay (usec)	-8.49054151258E+03	Apriori clock (usec)	1.6043346E+01	Resid sbdelay (usec)	-2.46793E+00	+/-	3.4E-03
Phase delay (usec)	-8.48807358708E+03	Apriori clockrate (us/s)	6.8000000E-07	Resid phdelay (usec)	-1.49979E-06	+/-	7.2E-07
Delay rate (us/s)	1.73066877662E+00	Apriori rate (us/s)	1.73066572155E+00	Resid rate (us/s)	3.05507E-06	+/-	4.2E-09
Total phase (deg)	56.5	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	294.8	+/-	22.3

ph/seg (deg)	88.7	Theor.	191.0	Amplitude	0.458 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	395.3	Search (2048X8)	0.442	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.294	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.449	Inc. frq. avg.	0.449	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10258.837 2393.250 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bP.W.55.0QR3WR



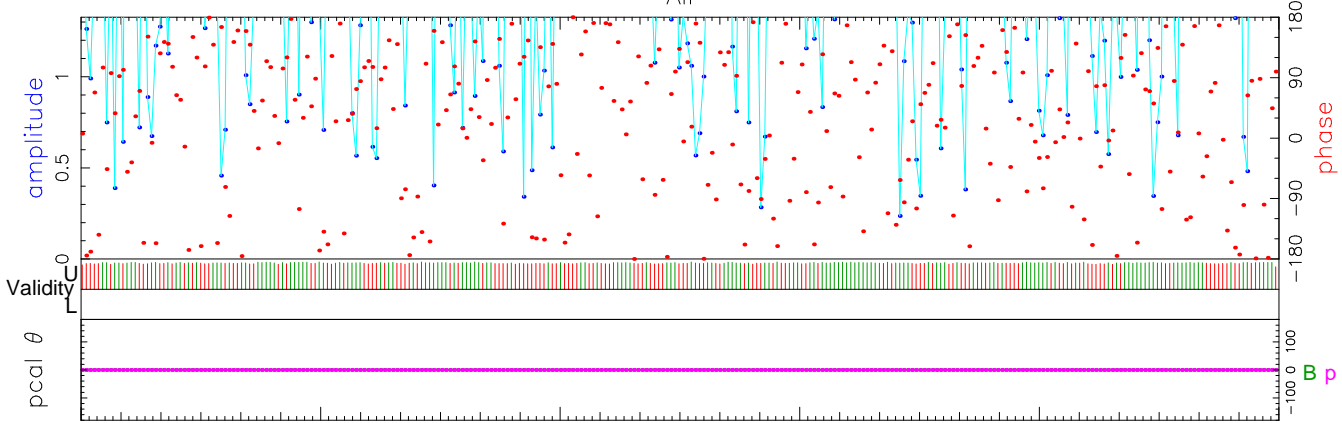
Fringe quality 0
SNR 5.1
Int time 285.684
Amp 0.442
Phase 274.6
PFD 1.0e+00
Delays (us)
SBD -1.350724
MBD 0.000007
Fringe rate (Hz)
0.158503
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
113.9
0.4
340.1
U/L 586/0
B 0
p 1000
B:p 0:0
B:p 0:0
B 1000
p 1000
B W06UR
p W06UL

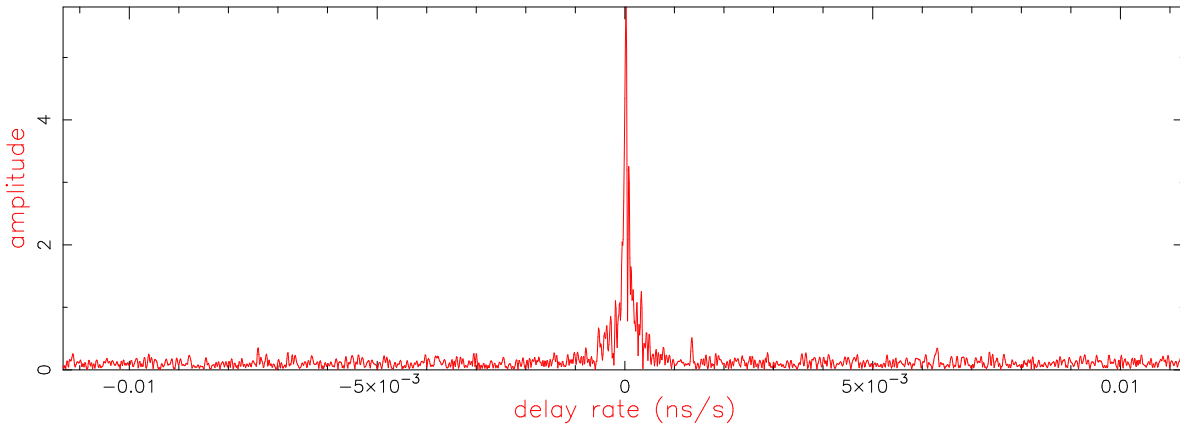
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.40695087301E+03	Apriori delay (usec)	2.40830159254E+03	Resid mbdelay (usec)	6.65677E-06	+/-	3.4E-03
Sband delay (usec)	2.40695086854E+03	Apriori clock (usec)	-1.1404653E+01	Resid sbdelay (usec)	-1.35072E+00	+/-	3.4E-03
Phase delay (usec)	2.40830159621E+03	Apriori clockrate (us/s)	-1.8900001E-07	Resid phdelay (usec)	3.67233E-06	+/-	7.3E-07
Delay rate (us/s)	-1.84378330482E+00	Apriori rate (us/s)	-1.84378514489E+00	Resid rate (us/s)	1.84006E-06	+/-	4.2E-09
Total phase (deg)	339.8	Apriori accel (us/s/s)	-6.29159812157E-06	Resid phase (deg)	274.6	+/-	22.7

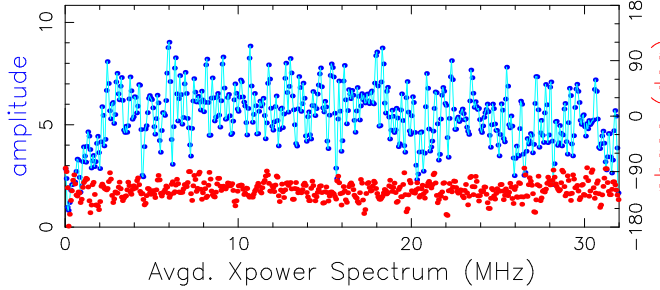
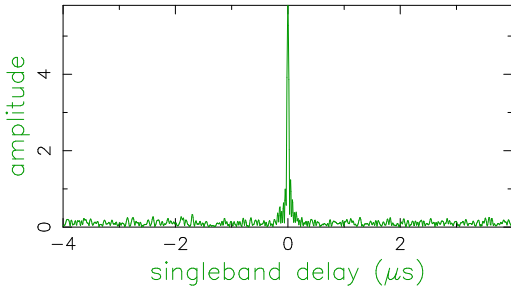
ph/seg (deg)	RMS 90.6	Theor. 194.0	Amplitude 0.442 +/- 0.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	391.4	338.6	Search (2048X8) 0.432	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	11.3	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.1	19.8	Inc. seg. avg. 0.281	Sample rate(MSamp/s): 64	ion window (TEC) 0.00 0.00	
			Inc. frq. avg. 0.433	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	

B: az 247.2 el 37.9 pa 37.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10989.888 1574.831 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bp.W.60.0QR3WR

Fringe quality 9



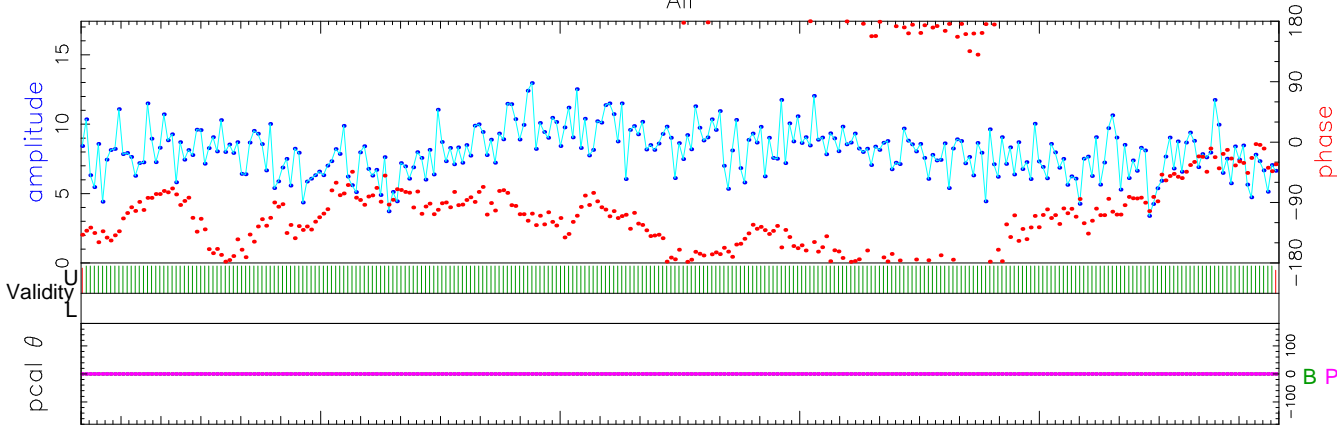
SNR 68.4
 Int time 296.612
 Amp 5.807
 Phase -119.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.000051
 MBD -0.000003
 Fringe rate (Hz)
 0.001976
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174157
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -120.0
 5.8
 513.0
 U/L 586/0
 B 0
 P 0
 B:P 0:0
 B:P 0:0
 B 1000
 P 1000
 B W06UR
 P W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-3.16822710732E+03	Apriori delay (usec)	-3.16822705808E+03	Resid mbdelay (usec)	-2.83947E-06	+/-	2.5E-04
Sband delay (usec)	-3.16822710958E+03	Apriori clock (usec)	1.9977873E+01	Resid sbdelay (usec)	-5.15000E-05	+/-	2.5E-04
Phase delay (usec)	-3.16822706195E+03	Apriori clockrate (us/s)	2.5300001E-07	Resid phdelay (usec)	-3.87047E-06	+/-	5.4E-08
Delay rate (us/s)	3.44394131336E-02	Apriori rate (us/s)	3.44393901913E-02	Resid rate (us/s)	2.29424E-08	+/-	3.1E-10
Total phase (deg)	-40.9	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)	-119.0	+/-	1.7

ph/seg (deg)	46.5	Theor.	14.3	Amplitude	5.807 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	48.6	Search (2048X8)	5.803	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	7.821	Inc. frq. avg.	5.807	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	5.807	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	nlags:	512
				u,v (fr/asec)	-176.511 1949.312	t_cohere	infinite	ion window (TEC)	0.00 0.00

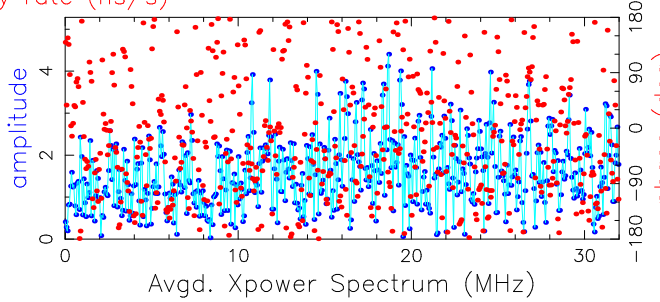
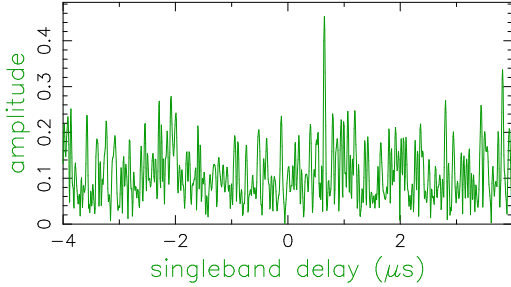
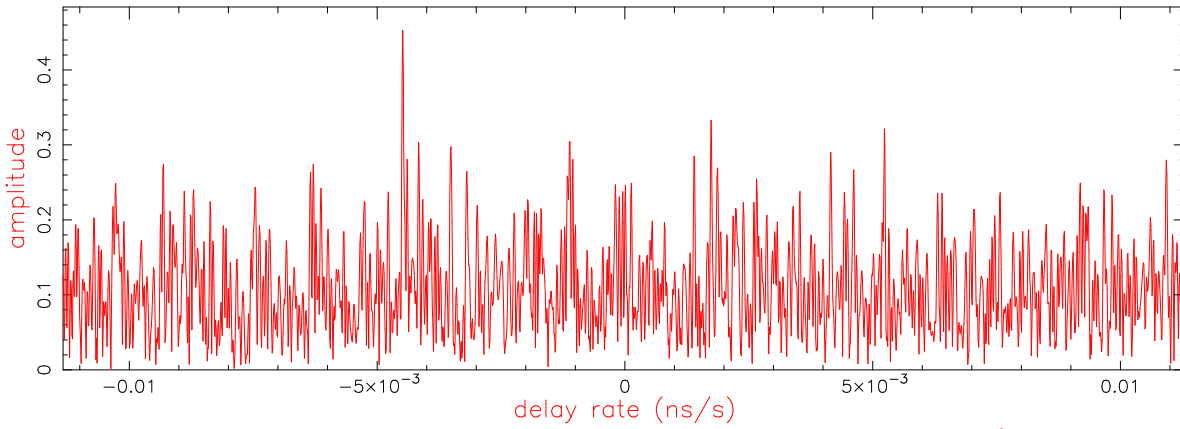
B: az 247.2 el 37.9 pa 37.6 P: az 249.4 el 49.9 pa 50.8 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BP.W.61.0QR3WR

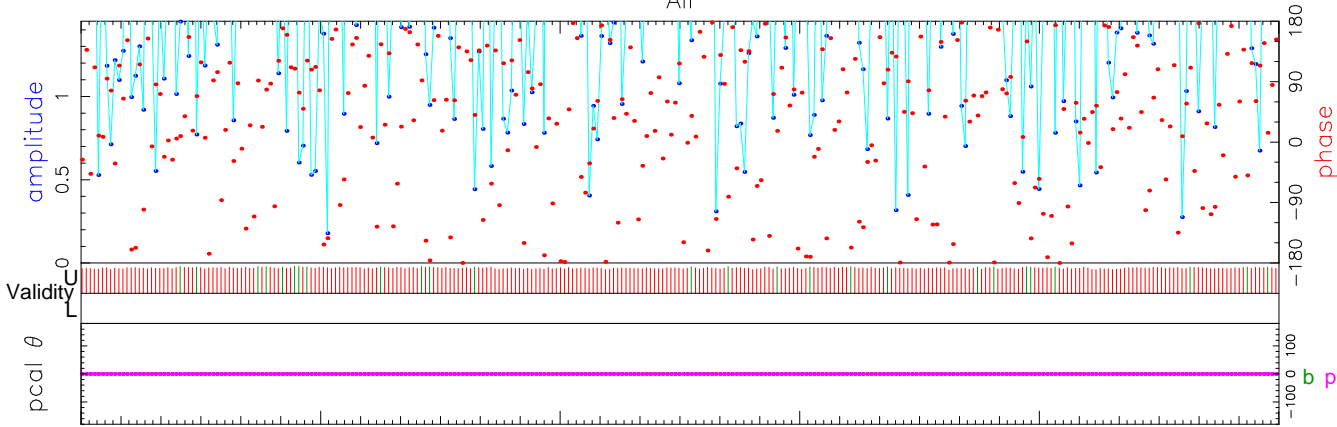
Fringe quality 0

SNR 5.1
Int time 275.326
Amp 0.484
Phase -106.7
PFD 1.0e+00
Delays (us)
SBD 0.649487
MBD -0.000005
Fringe rate (Hz)
-0.386360
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



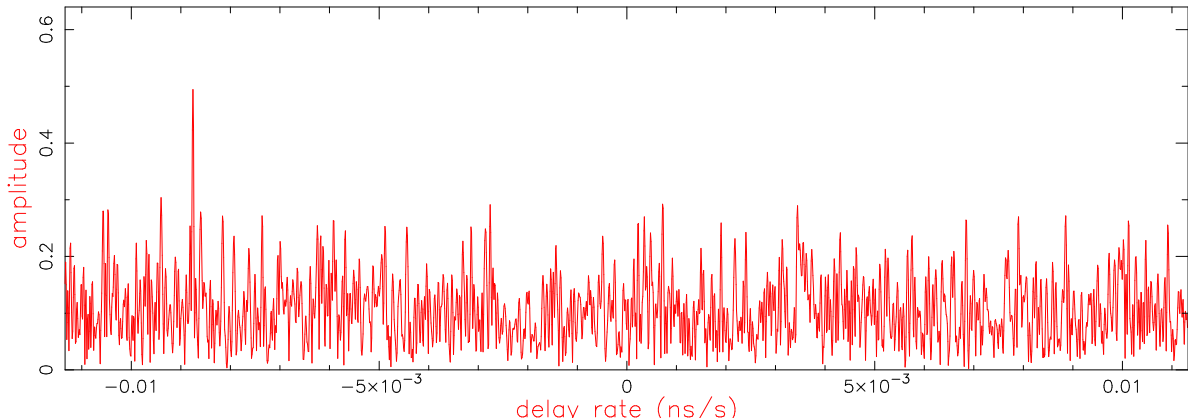
86204.00
97.6
0.5
596.1
U/L 586/0
b 1000
p 1000
b:p 0:0
b:p 0:0
b 1000
p 1000
b W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

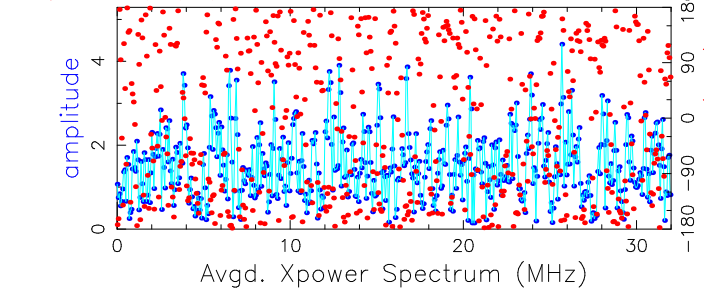
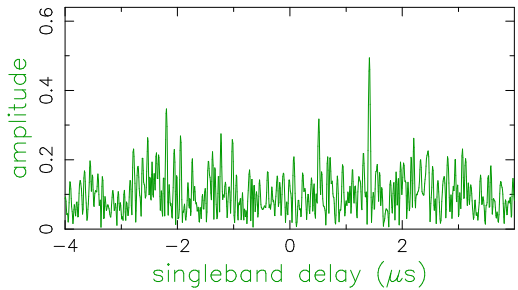
Group delay (usec)(sbd)	-2.91089544550E+03	Apriori delay (usec)	-2.91154493496E+03	Resid mbdelay (usec)	-4.76061E-06	+/-	3.3E-03
Sband delay (usec)	-2.91089544796E+03	Apriori clock (usec)	-1.5339180E+01	Resid sbdelay (usec)	6.49487E-01	+/-	3.3E-03
Phase delay (usec)	-2.91154493181E+03	Apriori clockrate (us/s)	2.3800000E-07	Resid phdelay (usec)	3.14884E-06	+/-	7.2E-07
Delay rate (us/s)	-1.47563298780E-01	Apriori rate (us/s)	-1.47558813527E-01	Resid rate (us/s)	-4.48525E-06	+/-	4.1E-09
Total phase (deg)	-357.8	Apriori accel (us/s/s)	2.11137257319E-05	Resid phase (deg)	-106.7	+/-	22.3

ph/seg (deg)	87.8	Theor.	190.7	Amplitude	0.484 +/- 0.094	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	389.7	Search (2048X8)	0.450	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.313	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.474	Inc. frq. avg.	0.474	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 907.562 2018.769 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bp.W.66.0QR3WR



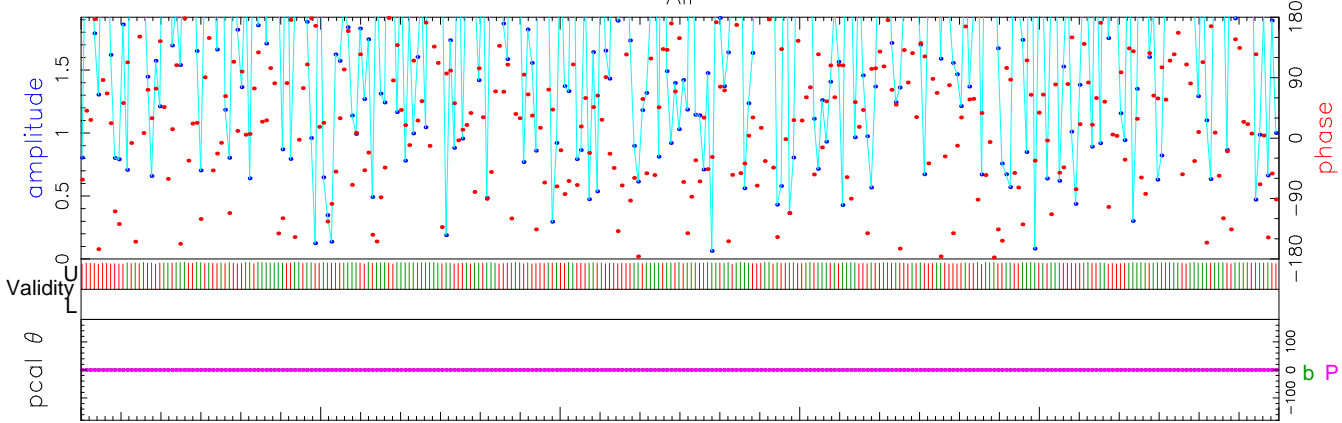
Fringe quality 0
SNR 5.7
Int time 285.545
Amp 0.640
Phase -136.6
PFD 7.5e-01
Delays (us)
SBD 1.414281
MBD -0.000006
Fringe rate (Hz)
-0.753687
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174158
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All

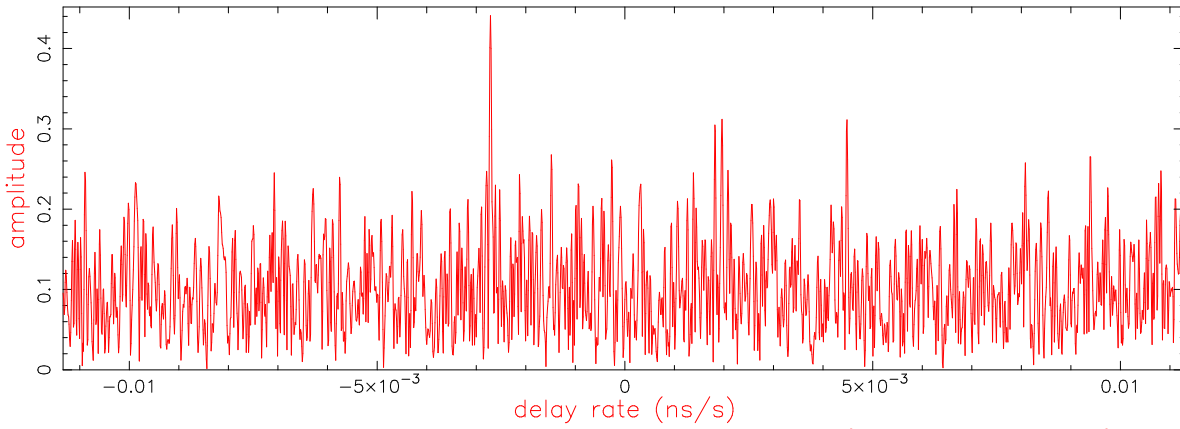


86204.00
48.5
0.6
694.0
U/L 586/0
b 1000
P 0
b:P 0:0
b:P 0:0
b 1000
P 1000
b W06UR
p W06UL

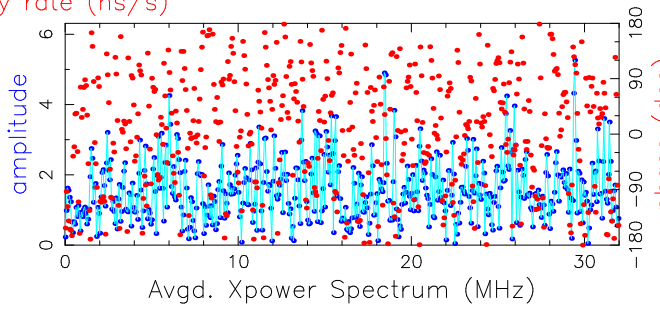
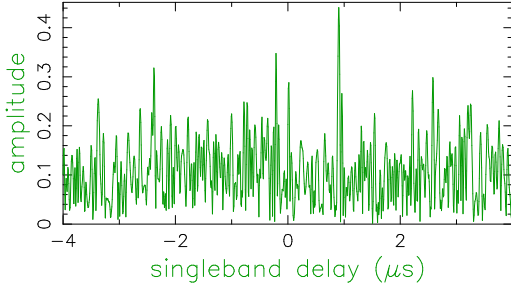
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.48665930660E+03	Apriori delay (usec)	-8.48807358558E+03	Resid mbdelay (usec)	-5.74062E-06	+/-	3.0E-03	
Sband delay (usec)	-8.48665930508E+03	Apriori clock (usec)	1.6043346E+01	Resid sbdelay (usec)	1.41428E+00	+/-	3.0E-03	
Phase delay (usec)	-8.48807358401E+03	Apriori clockrate (us/s)	6.8000000E-07	Resid phdelay (usec)	1.56538E-06	+/-	6.5E-07	
Delay rate (us/s)	1.73065697199E+00	Apriori rate (us/s)	1.73066572155E+00	Resid rate (us/s)	-8.74955E-06	+/-	3.7E-09	
Total phase (deg)	-14.8	Apriori accel (us/s/s)	4.96952002521E-05	Resid phase (deg)	-136.6	+/-	20.1	
ph/seg (deg)	89.8	Theor. Amplitude	0.640 +/- 0.112	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	354.6	Search (2048X8)	0.485	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	
amp/frq (%)	0.0	Inc. seg. avg.	0.453	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000	
		Inc. frq. avg.	0.630	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011	
b: az 88.2 el 20.4 pa -44.0	P: az 249.4 el 49.9 pa 50.8	u,v (fr/asec)	-10258.837 2393.250	nlags:	512	t_cohere	infinite	
				ion window (TEC)				0.00 0.00
simultaneous interpolator								
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/bP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/bP.W.73.0QR3WR								

Fringe quality 0



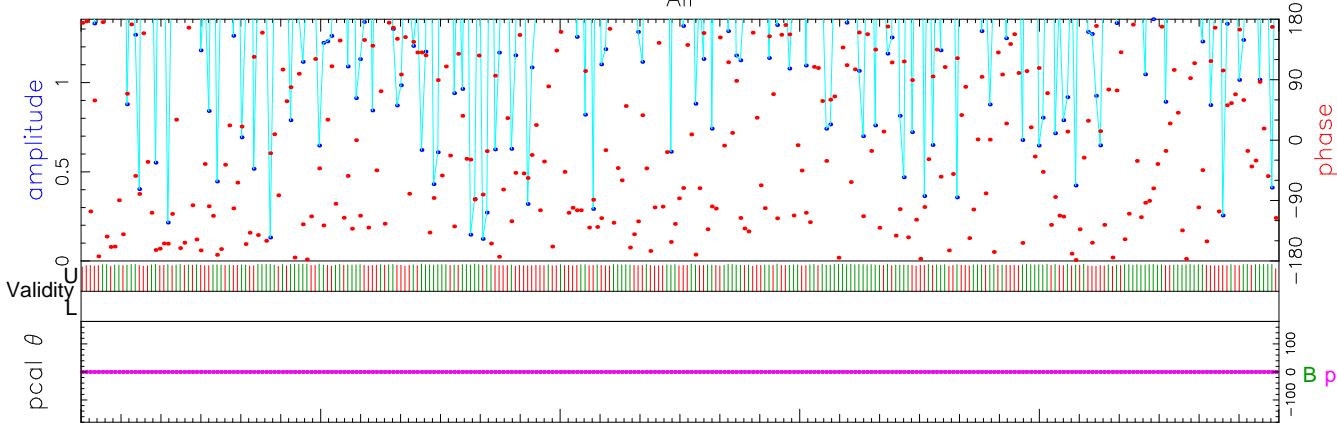
SNR 5.1
 Int time 285.684
 Amp 0.452
 Phase -123.8
 PFD 1.0e+00
 Delays (us)
 SBD 0.905543
 MBD -0.000007
 Fringe rate (Hz)
 -0.233599
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174152
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -139.9
 0.5
 628.9
 U/L 586/0
 B 0
 p 1000
 B:p 0:0
 B:p 0:0
 B 1000
 p 1000
 B W06UL
 p W06UL

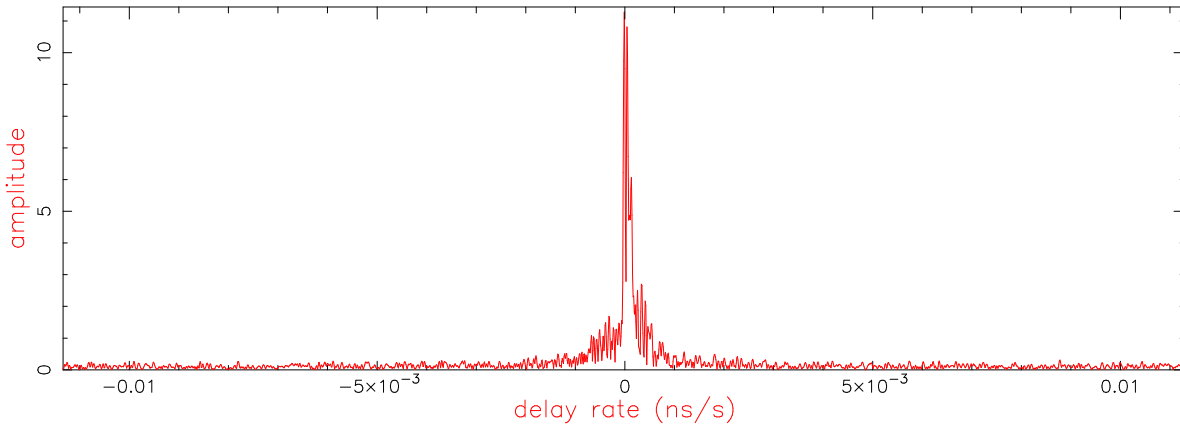
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	2.40920713527E+03	Apriori delay (usec)	2.40830159254E+03	Resid mbdelay (usec)	-6.89045E-06	+/-	3.4E-03
Sband delay (usec)	2.40920713554E+03	Apriori clock (usec)	-1.1404653E+01	Resid sbdelay (usec)	9.05543E-01	+/-	3.4E-03
Phase delay (usec)	2.40830158802E+03	Apriori clockrate (us/s)	-1.8900001E-07	Resid phdelay (usec)	-4.51193E-06	+/-	7.2E-07
Delay rate (us/s)	-1.84378785674E+00	Apriori rate (us/s)	-1.84378514489E+00	Resid rate (us/s)	-2.71185E-06	+/-	4.2E-09
Total phase (deg)	-58.6	Apriori accel (us/s/s)	-6.29159812157E-06	Resid phase (deg)	-123.8	+/-	22.5

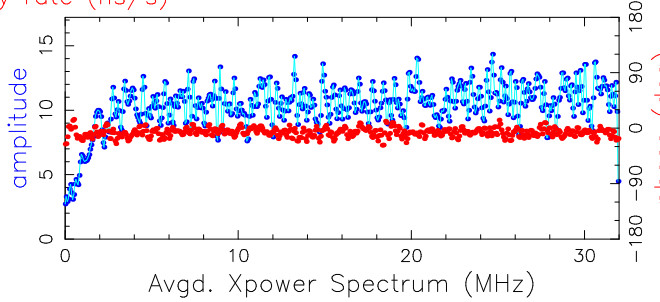
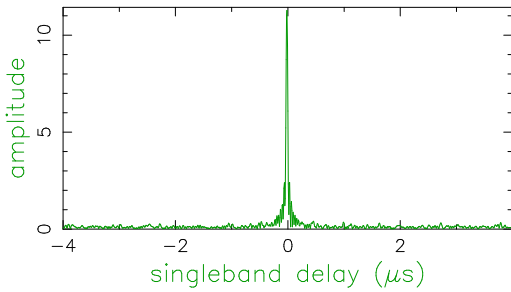
ph/seg (deg)	RMS 90.6	Theor. 192.4	Amplitude 0.452 +/- 0.089	Search (2048X8)	0.439	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	378.4	335.8	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.2	Inc. seg. avg.	0.283		Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1	19.6	Inc. frq. avg.	0.443		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128	nlags: 512	t_cohere	infinite	

B: az 247.2 el 37.9 pa 37.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10989.888 1574.831 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Bp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Bp.W.9.0QR3WR

Fringe quality 7



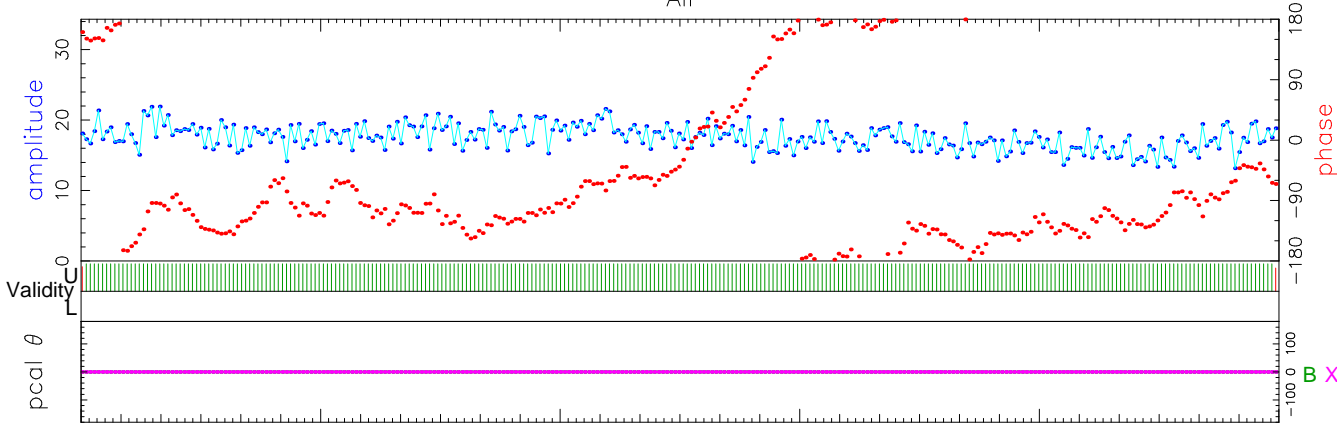
SNR 135.4
 Int time 299.764
 Amp 11.443
 Phase 313.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.018593
 MBD -0.000006
 Fringe rate (Hz)
 -0.000800
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174153
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All

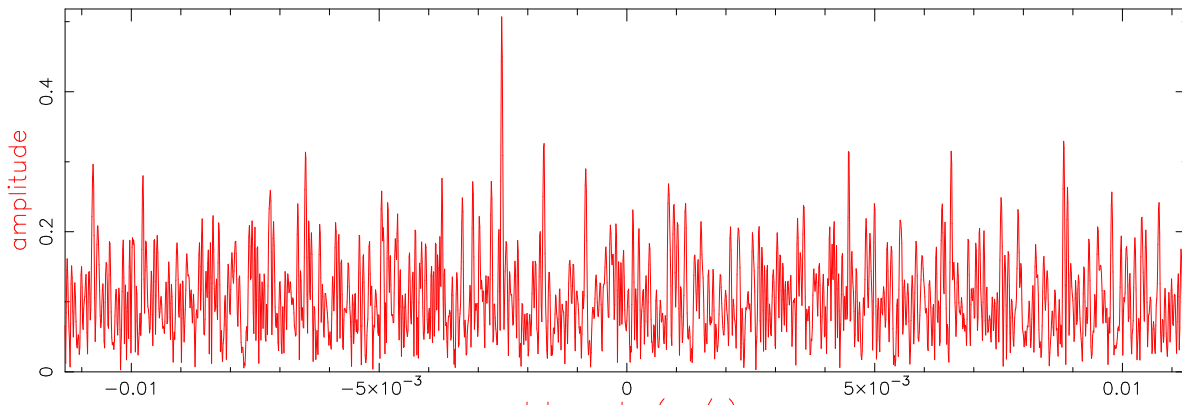


86204.00
 -114.7
 11.3
 510.6
 U/L 586/0
 B 0
 X 0
 B:X 0:0
 B:X 0:0
 B 1000
 X 1000
 B W06UL
 X W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

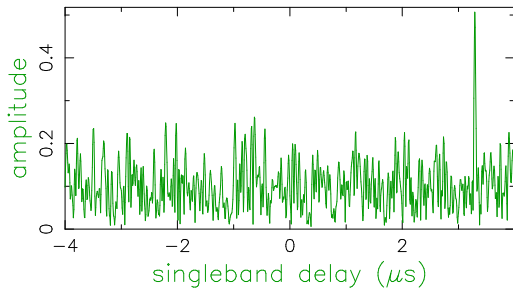
Group delay (usec)(sbd)	1.61694265970E+03	Apriori delay (usec)	1.61696124981E+03	Resid mbdelay (usec)	-6.28008E-06	+/- 1.3E-04
Sband delay (usec)	1.61694265631E+03	Apriori clock (usec)	-5.1678429E+00	Resid sbdelay (usec)	-1.85935E-02	+/- 1.3E-04
Phase delay (usec)	1.61696124611E+03	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	-3.69801E-06	+/- 2.7E-08
Delay rate (us/s)	-6.77727996665E-02	Apriori rate (us/s)	-6.77727903766E-02	Resid rate (us/s)	-9.28990E-09	+/- 1.6E-10
Total phase (deg)	334.5	Apriori accel (us/s/s)	-1.08557532878E-05	Resid phase (deg)	313.5	+/- 0.8

ph/seg (deg)	56.4	RMS	7.2	Theor.	11.443 +/- 0.084	Search (2048X8)	11.238	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	55.9	Interp.	0.000	Inc. seg. avg.	17.449	Inc. frq. avg.	11.284	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	17.449	Inc. frq. avg.	11.284	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.4	Inc. frq. avg.	11.284	u,v (fr/asec)	390.194 -851.396	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	nlags:	512
						t_cohere	infinite	ion window (TEC)	0.00 0.00	simultaneous interpolator	

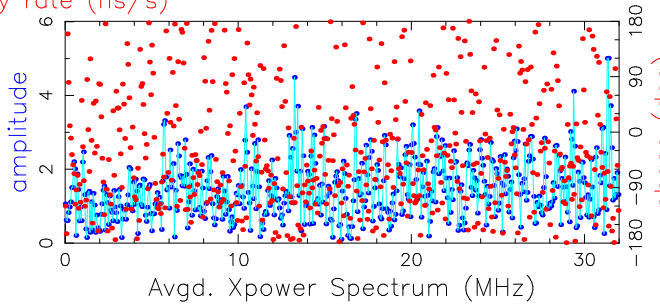


Fringe quality 0

SNR 5.9
Int time 288.325
Amp 0.518
Phase -49.5
PFD 3.8e-01
Delays (us)
SBD 3.289975
MBD -0.000006
Fringe rate (Hz)
-0.217160
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

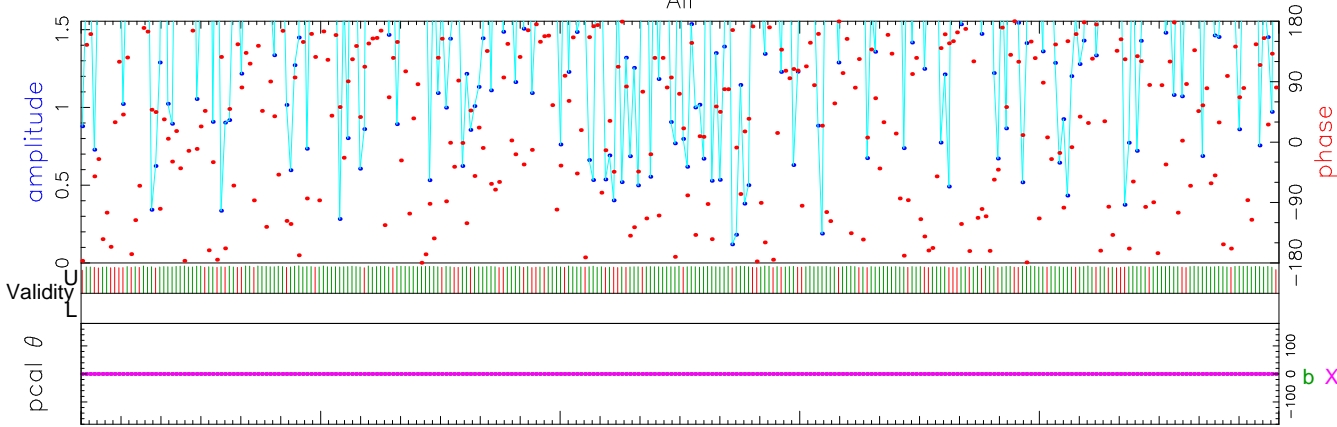


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174153
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
151.7
0.5
934.1
U/L 586/0
b 1000
X 0
b:X 0:0
b:X 0:0
b 1000
X 1000
b W06UL
X W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.69959529747E+03	Apriori delay (usec)	-3.70288527769E+03	Resid mbdelay (usec)	-6.31896E-06	+/-	2.9E-03
Sband delay (usec)	-3.69959530219E+03	Apriori clock (usec)	-9.1023703E+00	Resid sbdelay (usec)	3.28998E+00	+/-	2.9E-03
Phase delay (usec)	-3.70288527280E+03	Apriori clockrate (us/s)	-3.9700001E-07	Resid phdelay (usec)	4.89331E-06	+/-	6.3E-07
Delay rate (us/s)	1.62845101997E+00	Apriori rate (us/s)	1.62845354098E+00	Resid rate (us/s)	-2.52101E-06	+/-	3.6E-09
Total phase (deg)	-344.8	Apriori accel (us/s/s)	1.65495705657E-05	Resid phase (deg)	-49.5	+/-	19.4

ph/seg (deg)	93.2	Theor.	166.4	Amplitude	0.518 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	329.4	Search (2048X8)	0.498	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.367	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.510	Inc. frq. avg.	0.510	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

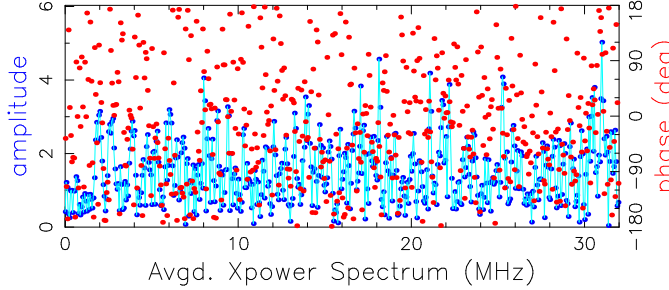
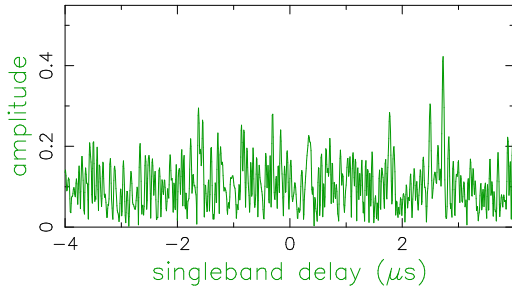
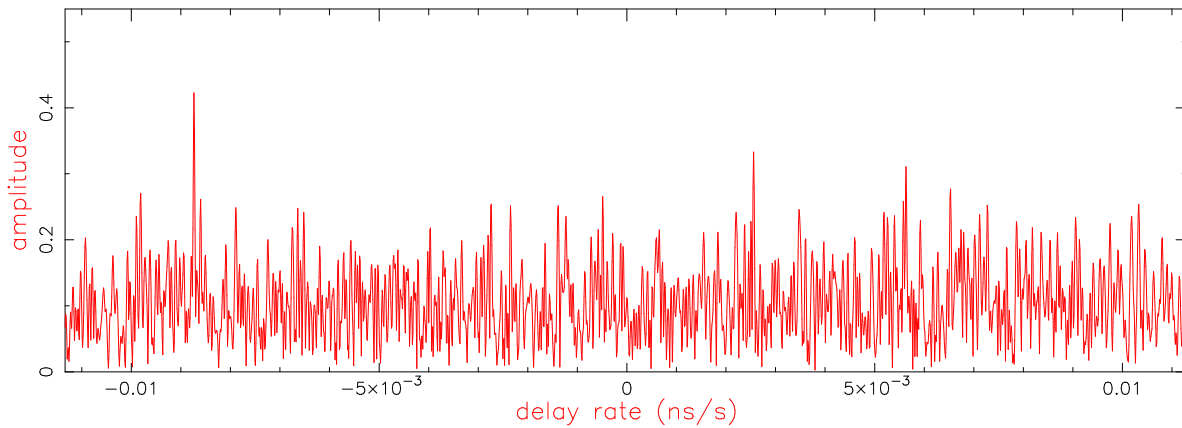
b: az 88.2 el 20.4 pa -44.0 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -9692.132 -407.459 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bX.W.15.0QR3WR

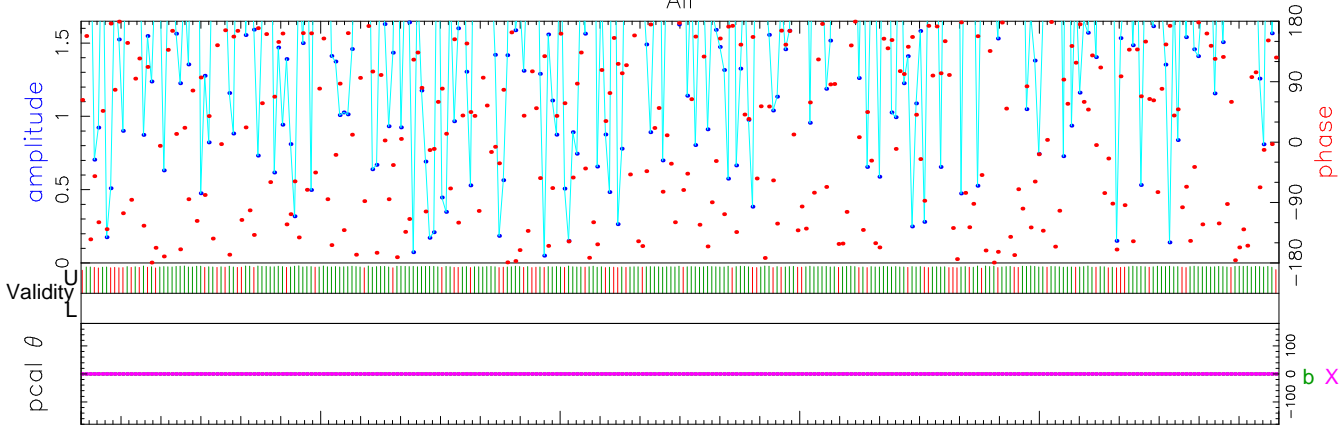
Fringe quality 0

SNR 4.9
Int time 288.326
Amp 0.550
Phase -302.7
PFD 1.0e+00
Delays (us)
SBD 2.724139
MBD -0.000004
Fringe rate (Hz)
-0.751487
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-178.5
0.5
861.7
U/L 586/0
b 1000
X 0
b:X 0:0
b:X 0:0
b 1000
X 1000
b W06UR
X W06UR

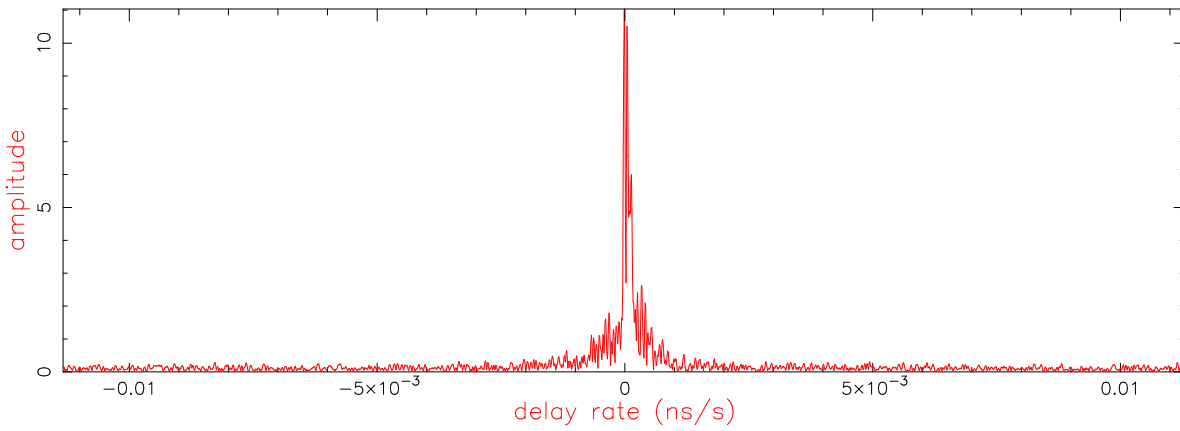
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.70016113937E+03	Apriori delay (usec)	-3.70288527769E+03	Resid mbdelay (usec)	-4.41395E-06	+/-	3.5E-03
Sband delay (usec)	-3.70016113869E+03	Apriori clock (usec)	-9.1023703E+00	Resid sbdelay (usec)	2.72414E+00	+/-	3.5E-03
Phase delay (usec)	-3.70288528345E+03	Apriori clockrate (us/s)	-3.9700001E-07	Resid phdelay (usec)	-5.75499E-06	+/-	7.5E-07
Delay rate (us/s)	1.62844481697E+00	Apriori rate (us/s)	1.62845354098E+00	Resid rate (us/s)	-8.72402E-06	+/-	4.3E-09
Total phase (deg)	-238.0	Apriori accel (us/s/s)	1.65495705657E-05	Resid phase (deg)	-302.7	+/-	23.2

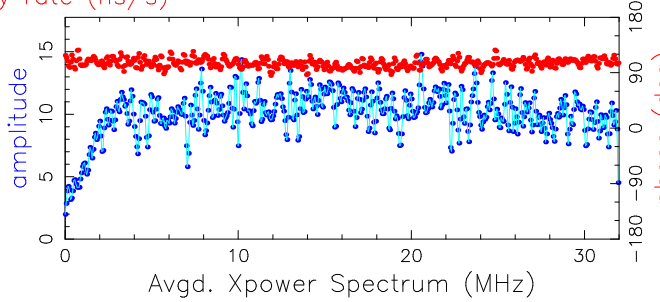
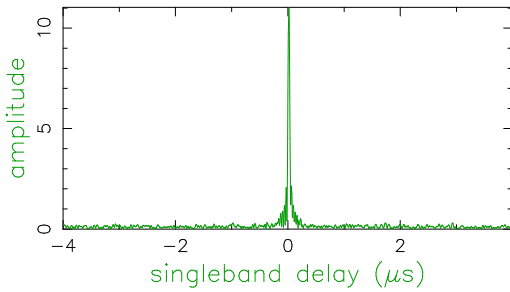
ph/seg (deg)	91.1	Theor.	198.6	Amplitude	0.550 +/- 0.111	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	391.6	Search (2048X8)	0.419	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.333	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.535	Inc. frq. avg.	0.535	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -9692.132 -407.459 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bX.W.37.0QR3WR

Fringe quality 7

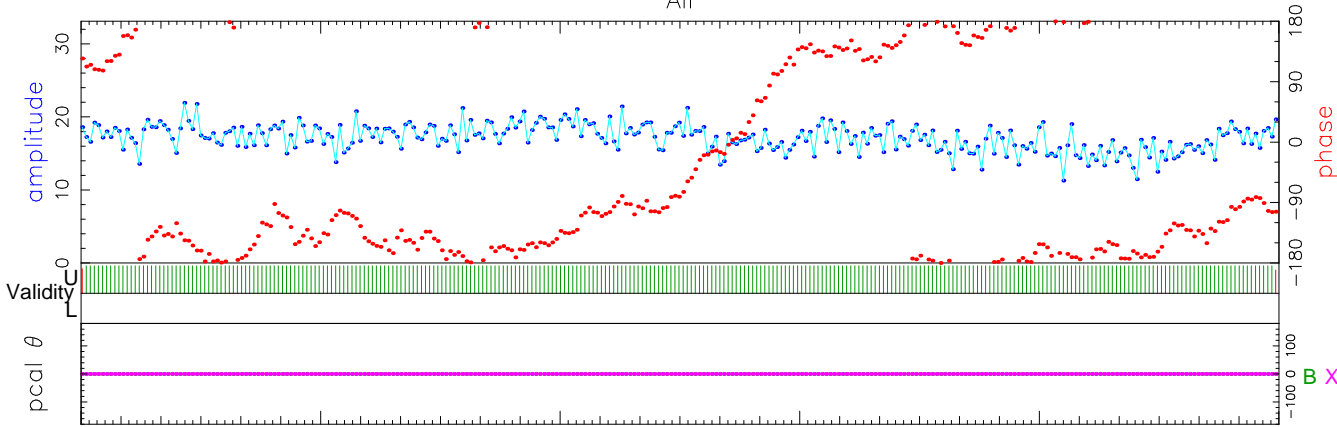


SNR 130.6
 Int time 299.764
 Amp 11.038
 Phase -188.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.016987
 MBD -0.000005
 Fringe rate (Hz)
 -0.000772
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174155
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
 -156.7
 11.0
 515.2
 U/L 586/0
 B 0
 X 0
 B:X 0:0
 B:X 0:0
 B 1000
 X 1000
 B W06UR
 X W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

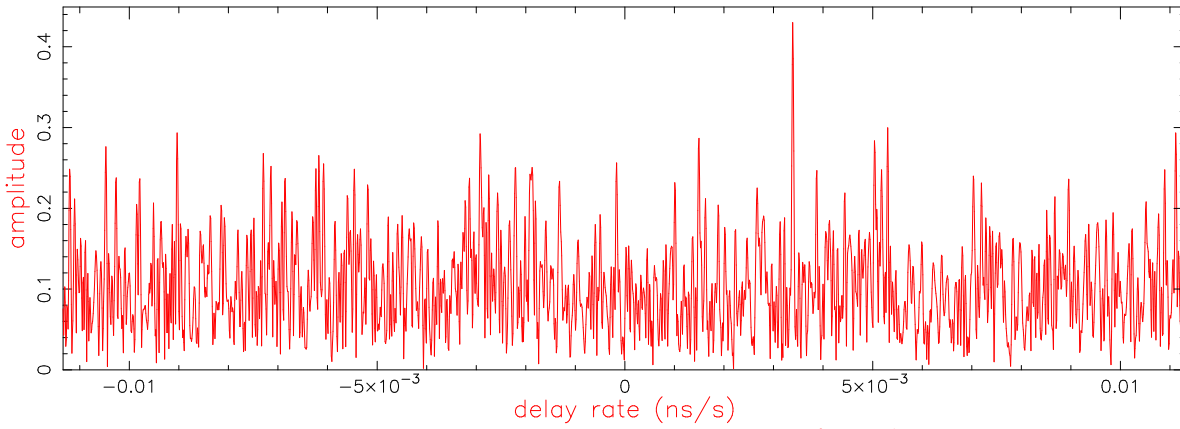
Group delay (usec)(sbd)	1.61697823909E+03	Apriori delay (usec)	1.61696124981E+03	Resid mbdelay (usec)	-5.28170E-06	+/-	1.3E-04
Sband delay (usec)	1.61697823681E+03	Apriori clock (usec)	-5.1678429E+00	Resid sbdelay (usec)	1.69870E-02	+/-	1.3E-04
Phase delay (usec)	1.61696124475E+03	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	-5.05330E-06	+/-	2.8E-08
Delay rate (us/s)	-6.77727993391E-02	Apriori rate (us/s)	-6.77727903766E-02	Resid rate (us/s)	-8.96255E-09	+/-	1.6E-10
Total phase (deg)	-167.3	Apriori accel (us/s/s)	-1.08557532878E-05	Resid phase (deg)	-188.3	+/-	0.9

ph/seg (deg)	56.7	Theor.	7.5	Amplitude	11.038 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	57.9		13.1	Search (2048X8)	10.945	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.3		0.8	Inc. seg. avg.	17.019	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
				Inc. frq. avg.	11.006	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

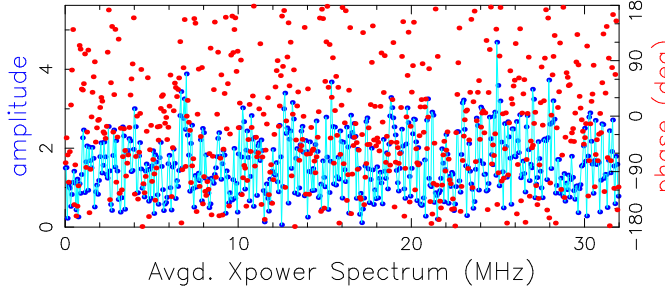
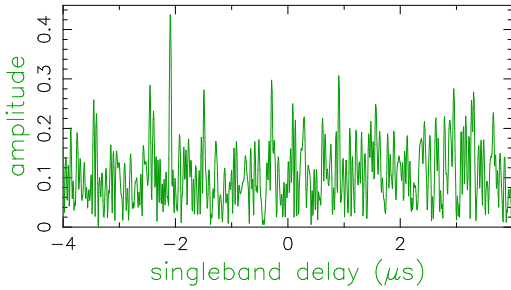
B: az 247.2 el 37.9 pa 37.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BX.W.47.0QR3WR

Fringe quality 0

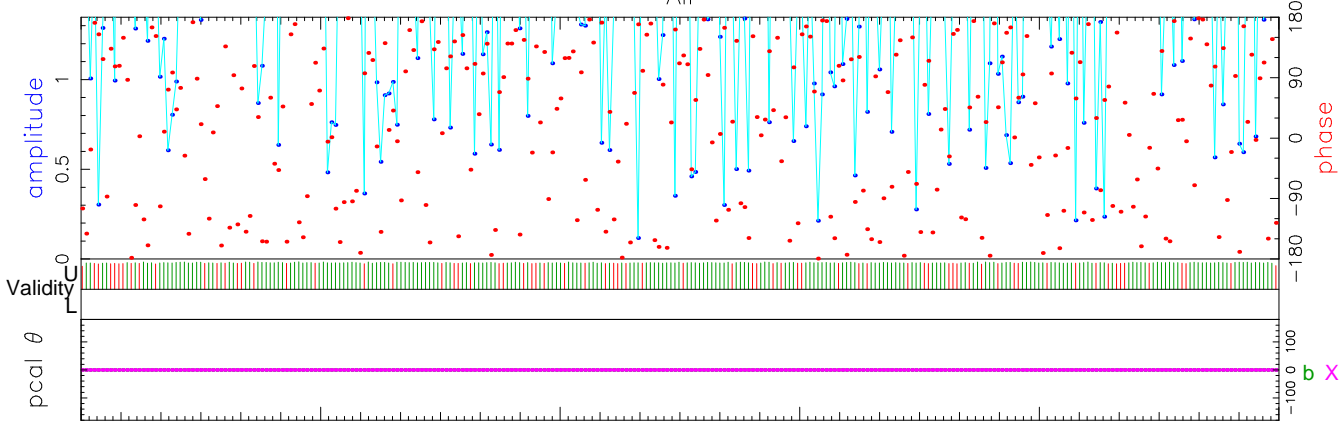


SNR 5.0
Int time 288.325
Amp 0.449
Phase 102.6
PFD 1.0e+00
Delays (us)
SBD -2.091514
MBD 0.000007
Fringe rate (Hz) 0.291341
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
154.1
0.4
245.3
U/L 586/0
b 1000
X 0
b:X 0:0
b:X 0:0
b 1000
X 1000
b W06UL
X W06UR

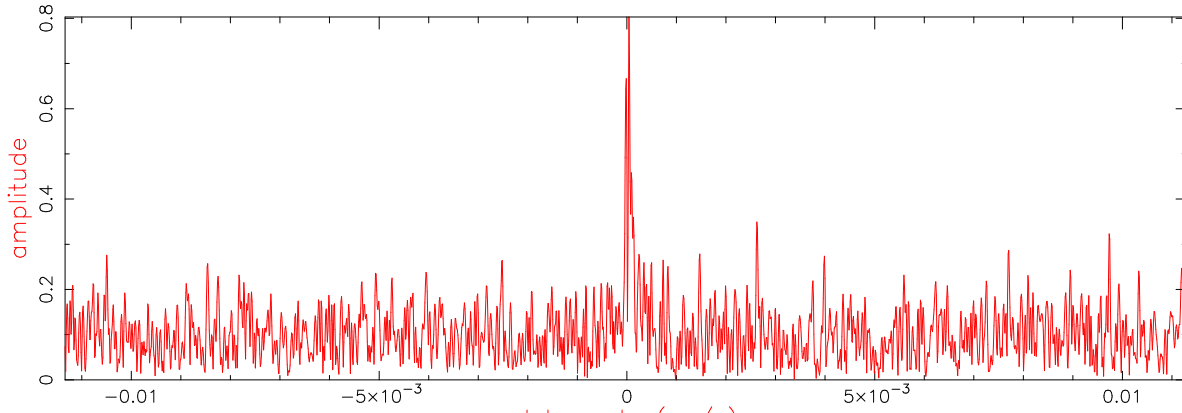
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.70497678592E+03	Apriori delay (usec)	-3.70288527769E+03	Resid mbdelay (usec)	7.24586E-06	+/-	3.4E-03
Sband delay (usec)	-3.70497679169E+03	Apriori clock (usec)	-9.1023703E+00	Resid sbdelay (usec)	-2.09151E+00	+/-	3.4E-03
Phase delay (usec)	-3.70288527272E+03	Apriori clockrate (us/s)	-3.9700001E-07	Resid phdelay (usec)	4.96916E-06	+/-	7.4E-07
Delay rate (us/s)	1.62845692316E+00	Apriori rate (us/s)	1.62845354098E+00	Resid rate (us/s)	3.38218E-06	+/-	4.2E-09
Total phase (deg)	167.3	Apriori accel (us/s/s)	1.65495705657E-05	Resid phase (deg)	102.6	+/-	22.8

ph/seg (deg)	89.1	Theor.	195.1	Amplitude	0.449 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	383.8		340.5	Search (2048X8)	0.418	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		11.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.7		19.9	Inc. seg. avg.	0.276	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.437	nlags:	512	t_cohere	infinite			

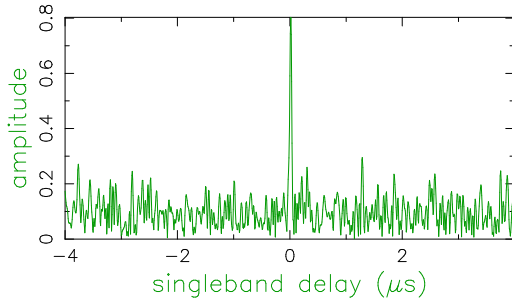
b: az 88.2 el 20.4 pa -44.0 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -9692.132 -407.459 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bX.W.49.0QR3WR

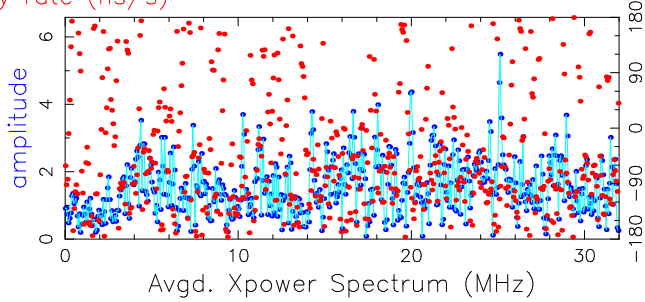


Fringe quality 9

SNR 9.5
Int time 299.764
Amp 0.803
Phase -359.9
PFD 4.1e-13
Delays (us)
SBD 0.015628
MBD 0.000001
Fringe rate (Hz)
0.004129
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



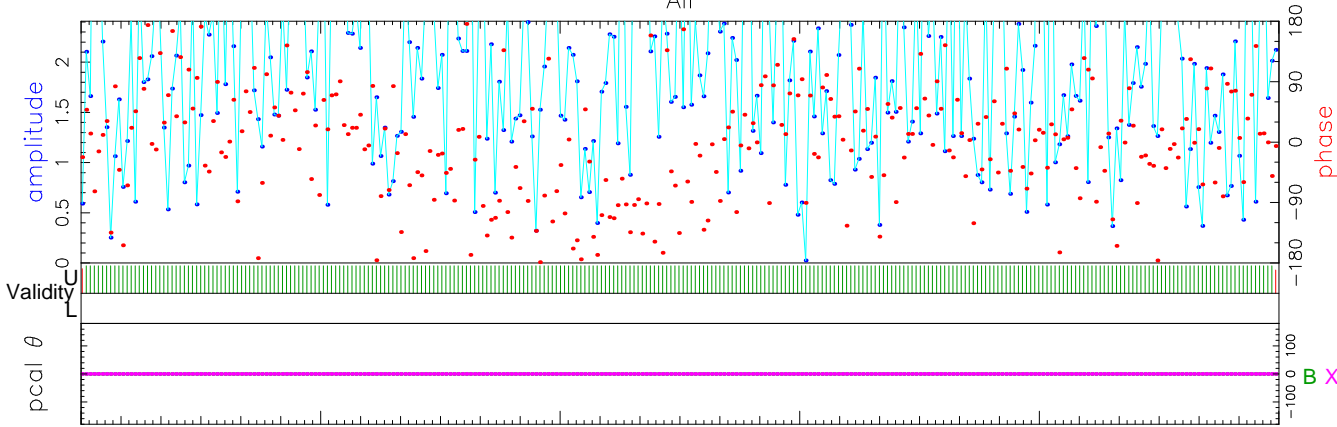
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174156
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
0.1
0.8
515.0
U/L 586/0
B 0
X 0
B:X 0:0
B:X 0:0
B 1000
X 1000
B W06UL
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.61697687654E+03	Apriori delay (usec)	1.61696124981E+03	Resid mbdelay (usec)	1.01086E-06	+/-	1.8E-03
Sband delay (usec)	1.61697687831E+03	Apriori clock (usec)	-5.1678429E+00	Resid sbdelay (usec)	1.56285E-02	+/-	1.8E-03
Phase delay (usec)	1.61696124981E+03	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	4.69446E-09	+/-	3.9E-07
Delay rate (us/s)	-6.77727424455E-02	Apriori rate (us/s)	-6.77727903766E-02	Resid rate (us/s)	4.79311E-08	+/-	2.2E-09
Total phase (deg)	-338.9	Apriori accel (us/s/s)	-1.08557532878E-05	Resid phase (deg)	-359.9	+/-	12.1

ph/seg (deg)	81.2	Theor.	103.2	Amplitude	0.803 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	198.8	Search (2048X8)	0.788	Search	0.788	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.770	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.0	Inc. frq. avg.	0.799	Inc. frq. avg.	0.799	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

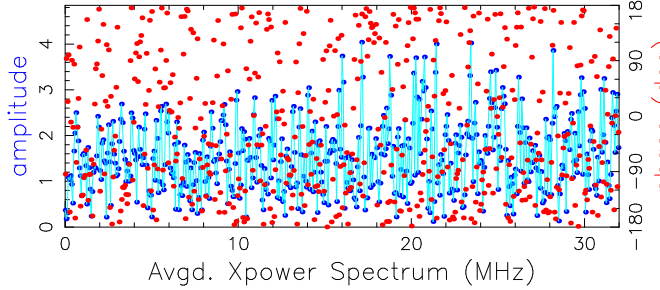
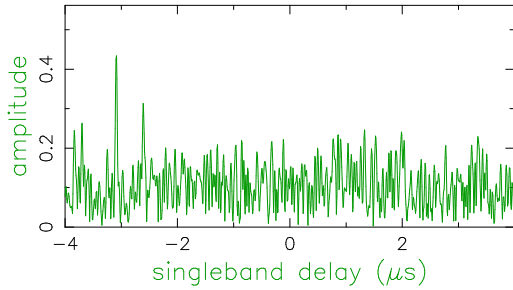
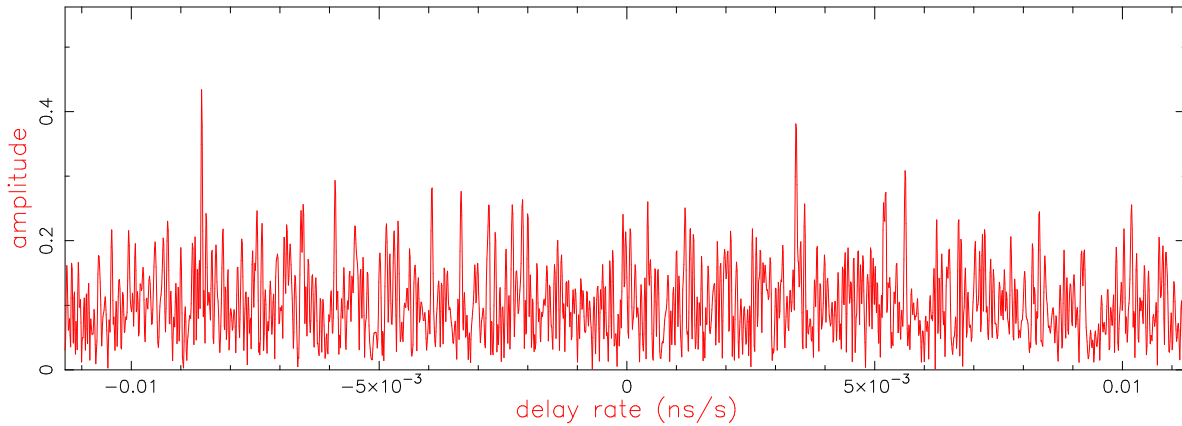
B: az 247.2 el 37.9 pa 37.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BX.W.59.0QR3WR

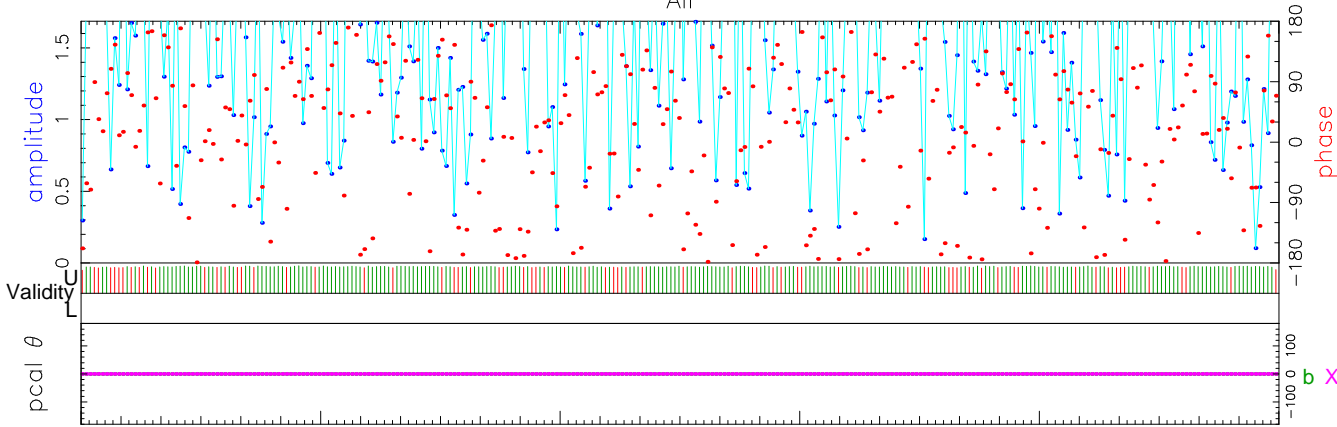
Fringe quality 0

SNR 5.1
Int time 288.326
Amp 0.562
Phase 313.4
PFD 1.0e+00
Delays (us)
SBD -3.088873
MBD -0.000006
Fringe rate (Hz)
-0.738994
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174158
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



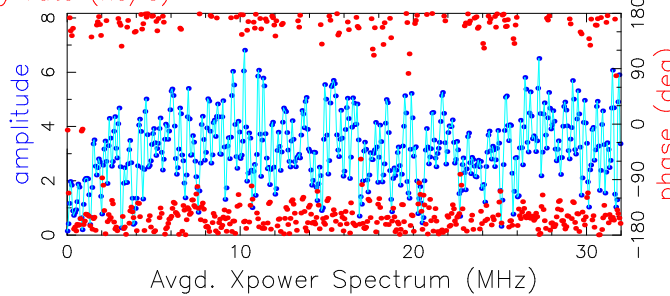
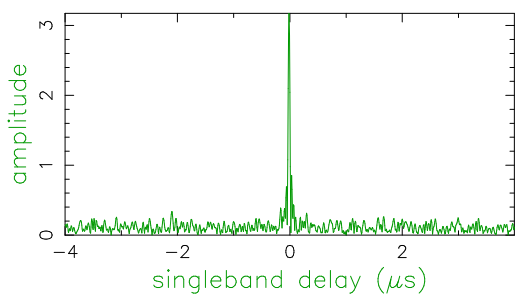
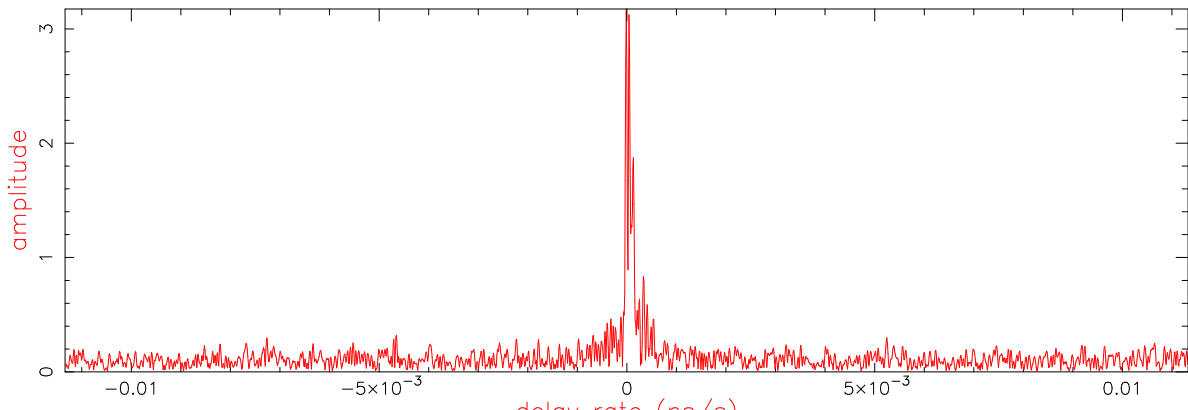
86204.00 Freq (MHz)
65.8 Phase
0.6 Ampl.
117.6 Sbd box
U/L 586/0 APs used
b 1000 PC freqs
X 0 PC freqs
b:X 0:0 PC phase
b:X 0:0 Mani PC
b 1000 PC amp
X 1000
b W06UR Chan ids
X W06UL Chan ids

Group delay (usec)(sbd)	-3.70597415397E+03	Apriori delay (usec)	-3.70288527769E+03	Resid mbdelay (usec)	-5.68902E-06	+/-	3.4E-03
Sband delay (usec)	-3.70597415069E+03	Apriori clock (usec)	-9.1023703E+00	Resid sbdelay (usec)	-3.08887E+00	+/-	3.4E-03
Phase delay (usec)	-3.70288527557E+03	Apriori clockrate (us/s)	-3.9700001E-07	Resid phdelay (usec)	2.12136E-06	+/-	7.3E-07
Delay rate (us/s)	1.62844496200E+00	Apriori rate (us/s)	1.62845354098E+00	Resid rate (us/s)	-8.57898E-06	+/-	4.2E-09
Total phase (deg)	18.1	Apriori accel (us/s/s)	1.65495705657E-05	Resid phase (deg)	313.4	+/-	22.5

ph/seg (deg)	RMS 90.3	Theor. 192.5	Amplitude 0.562 +/- 0.110	Search (2048X8) 0.428	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	369.3	336.0	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.2	Inc. seg. avg. 0.342	0.342	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	1.1	19.6	Inc. frq. avg. 0.545	0.545	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 88.2 el 20.4 pa -44.0 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -9692.132 -407.459 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bX.W.72.0QR3WR



Fringe quality 9

SNR 37.6

Int time 299.764

Amp 3.175

Phase 109.3

PFD 0.0e+00

Delays (us)

SBD -0.015770

MBD -0.000007

Fringe rate (Hz)

-0.000799

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

2019:212:174158

2018:249:082454

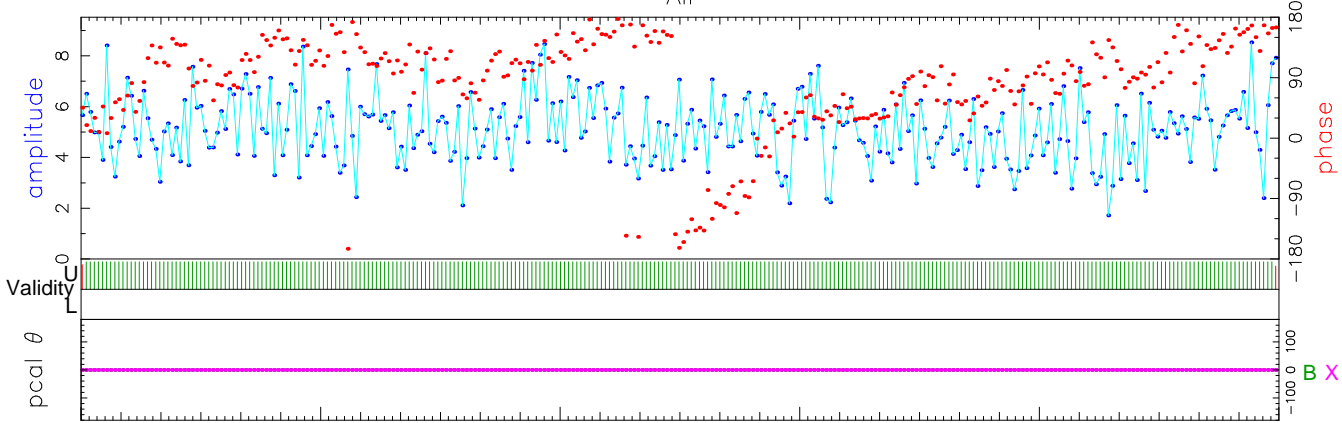
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00

106.0

3.2

511.0

U/L 586/0

B 0

X 0

B:X 0:0

B:X 0:0

B 1000

X 1000

B W06UR

X W06UL

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC phase

Manl PC

PC amp

Chan ids

Chan ids

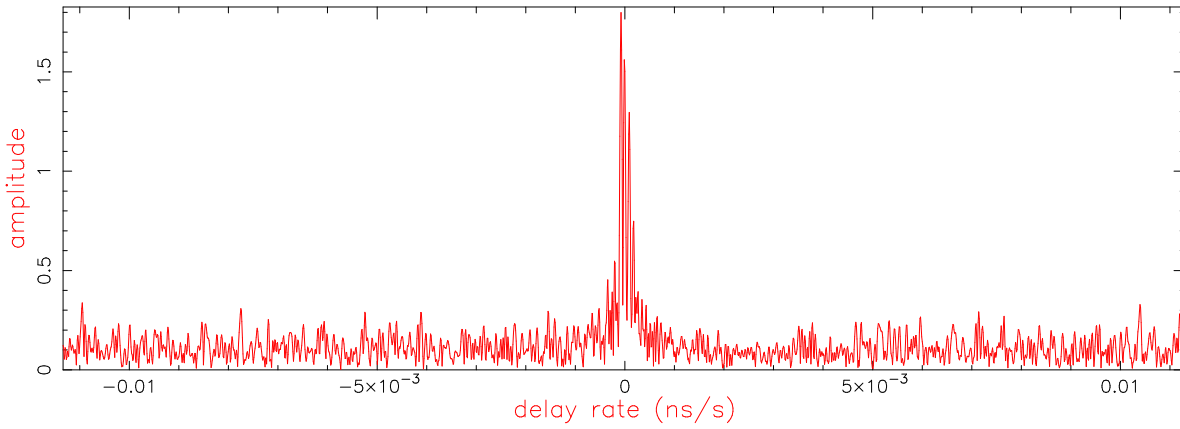
Group delay (usec)(sbd)	1.61694547804E+03	Apriori delay (usec)	1.61696124981E+03	Resid mbdelay (usec)	-6.83978E-06	+/-	4.6E-04
Sband delay (usec)	1.61694548031E+03	Apriori clock (usec)	-5.1678429E+00	Resid sbdelay (usec)	-1.57695E-02	+/-	4.6E-04
Phase delay (usec)	1.61696125323E+03	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	3.41981E-06	+/-	9.8E-08
Delay rate (us/s)	-6.77727996502E-02	Apriori rate (us/s)	-6.77727903766E-02	Resid rate (us/s)	-9.27360E-09	+/-	5.7E-10
Total phase (deg)	130.2	Apriori accel (us/s/s)	-1.08557532878E-05	Resid phase (deg)	109.3	+/-	3.0

ph/seg (deg)	58.4	RMS	26.1	Theor.	58.4	Amplitude	3.175 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	73.7		45.6		73.7	Search (2048X8)	3.161	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		1.5		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		2.7		0.0	Inc. seg. avg.	4.628	Sample rate(MSamp/s):	64			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	3.173	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	

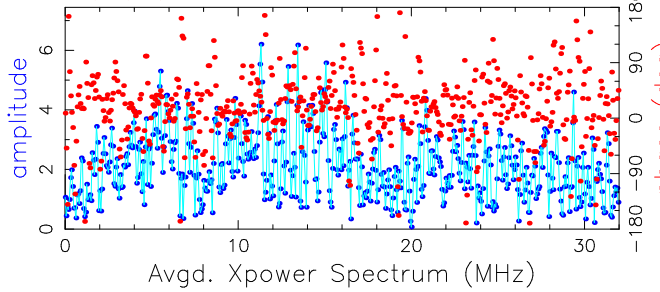
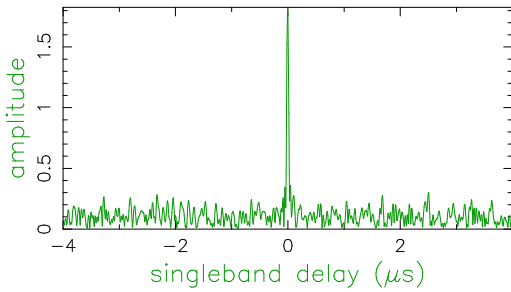
B: az 247.2 el 37.9 pa 37.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BX.W.75.0QR3WR

Fringe quality 9

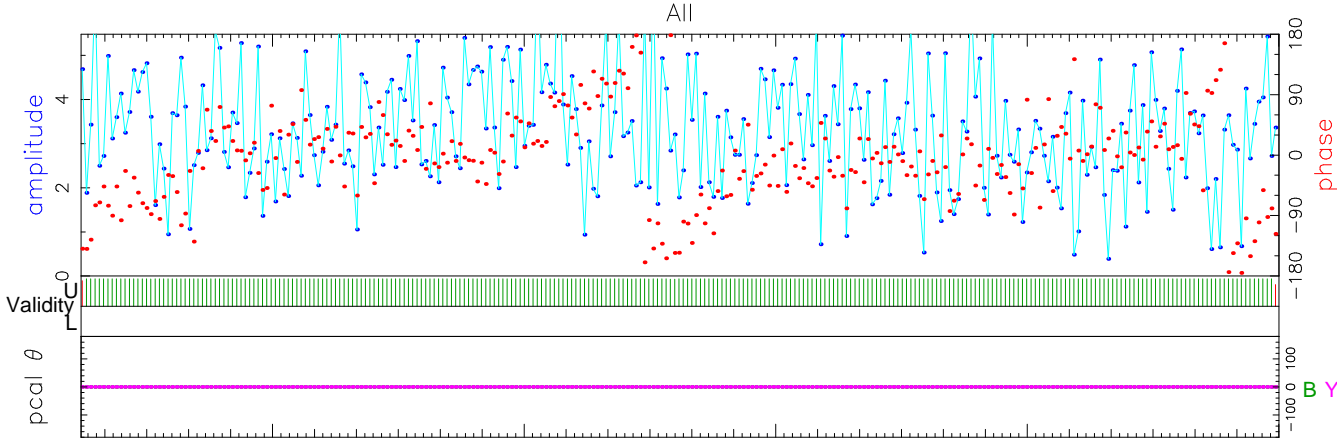


SNR 21.1
 Int time 285.318
 Amp 1.827
 Phase 98.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.004523
 MBD -0.000005
 Fringe rate (Hz)
 -0.006301
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174202
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 -5.9
 1.8
 512.4
 U/L 558/0
 B 0
 Y 0
 B:Y 0:0
 B:Y 0:0
 B 1000
 Y 1000
 B W06UL
 Y W06UR

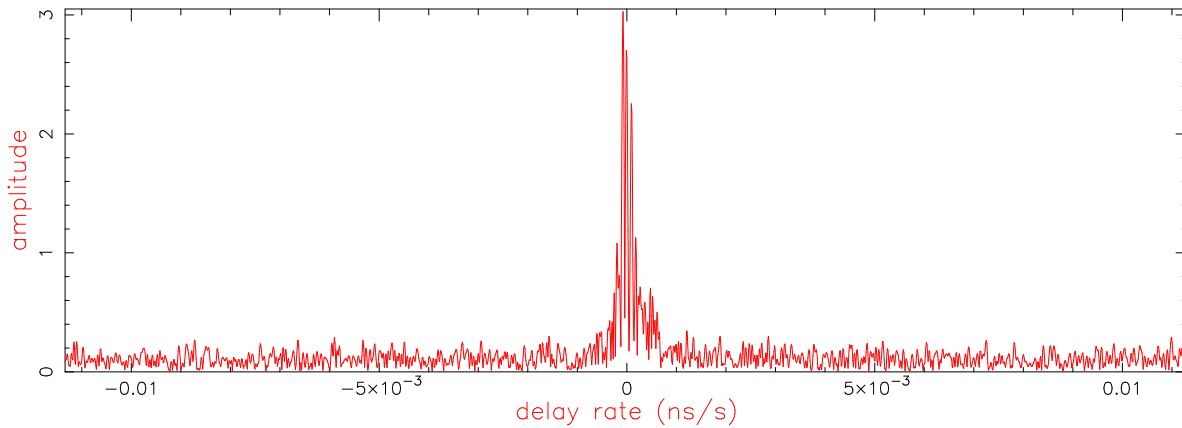
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-2.80468408669E+03	Apriori delay (usec)	-2.80467955760E+03	Resid mbdelay (usec)	-4.94084E-06	+/-	8.2E-04
Sband delay (usec)	-2.80468408110E+03	Apriori clock (usec)	1.2879183E+01	Resid sbdelay (usec)	-4.52350E-03	+/-	8.2E-04
Phase delay (usec)	-2.80467955779E+03	Apriori clockrate (us/s)	-2.3700001E-07	Resid phdelay (usec)	-1.89451E-07	+/-	1.8E-07
Delay rate (us/s)	2.87582951246E-03	Apriori rate (us/s)	2.87590266608E-03	Resid rate (us/s)	-7.31536E-08	+/-	1.1E-09
Total phase (deg)	65.5	Apriori accel (us/s/s)	1.88398071791E-05	Resid phase (deg)	98.4	+/-	5.4

ph/seg (deg)	66.1	Theor.	45.4	Amplitude	1.827 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	109.2	Search (2048X8)	1.766	Search	1.766	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	2.528	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.5	Inc. frq. avg.	1.797	Inc. frq. avg.	1.797	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

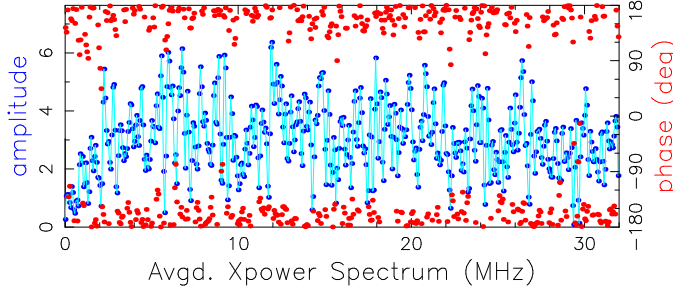
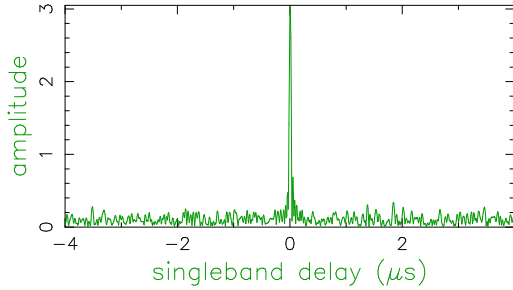
B: az 247.2 el 37.9 pa 37.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 7.171 1470.823 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BY.W.114.0QR3WR



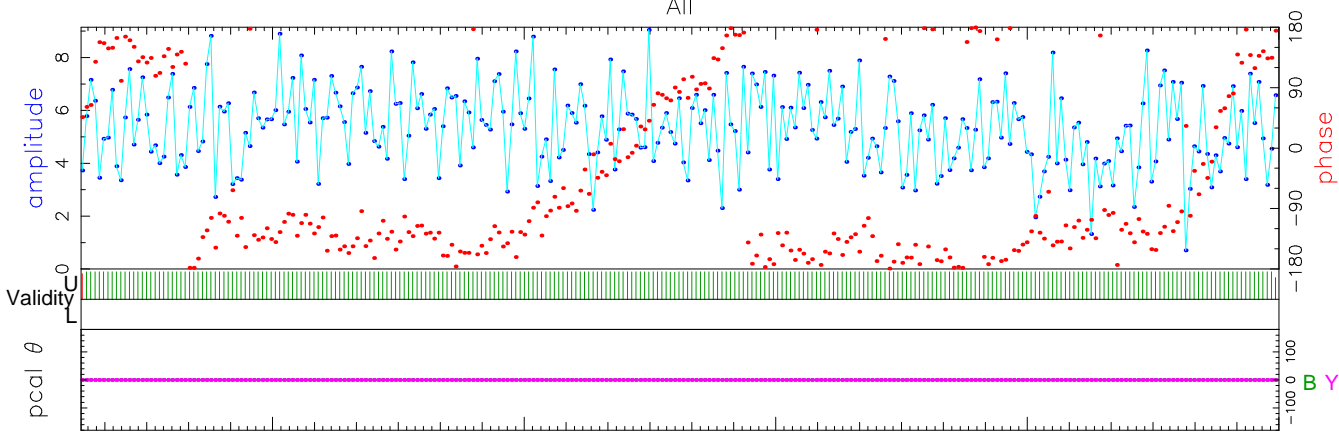
Fringe quality 9

SNR 35.2
Int time 285.318
Amp 3.050
Phase -278.2
PFD 0.0e+00
Delays (us)
SBD 0.005561
MBD -0.000007
Fringe rate (Hz)
-0.006621
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
-149.9
3.0
513.7
U/L 558/0
B 0
Y 0
B:Y 0:0
B:Y 0:0
B 1000
Y 1000
B W06UR
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.80467399601E+03	Apriori delay (usec)	-2.80467955760E+03	Resid mbdelay (usec)	-6.60081E-06	+/-	4.9E-04
Sband delay (usec)	-2.80467399610E+03	Apriori clock (usec)	1.2879183E+01	Resid sbdelay (usec)	5.56150E-03	+/-	4.9E-04
Phase delay (usec)	-2.80467956243E+03	Apriori clockrate (us/s)	-2.3700001E-07	Resid phdelay (usec)	-4.83321E-06	+/-	1.0E-07
Delay rate (us/s)	2.87582580529E-03	Apriori rate (us/s)	2.87590266608E-03	Resid rate (us/s)	-7.68608E-08	+/-	6.4E-10
Total phase (deg)	-311.1	Apriori accel (us/s/s)	1.88398071791E-05	Resid phase (deg)	-278.2	+/-	3.3

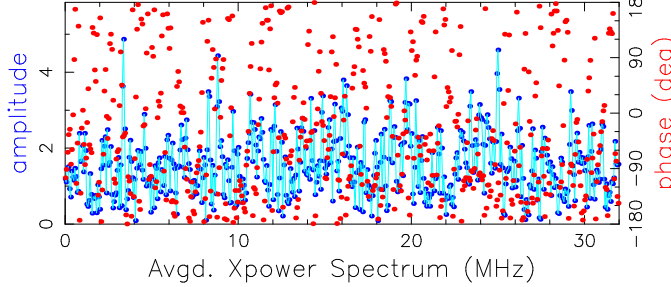
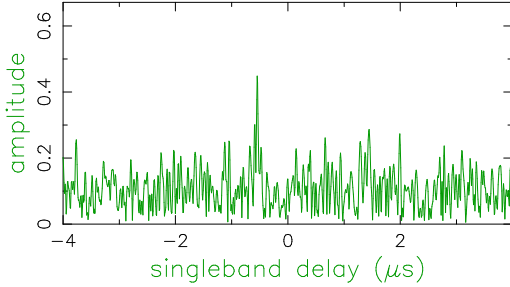
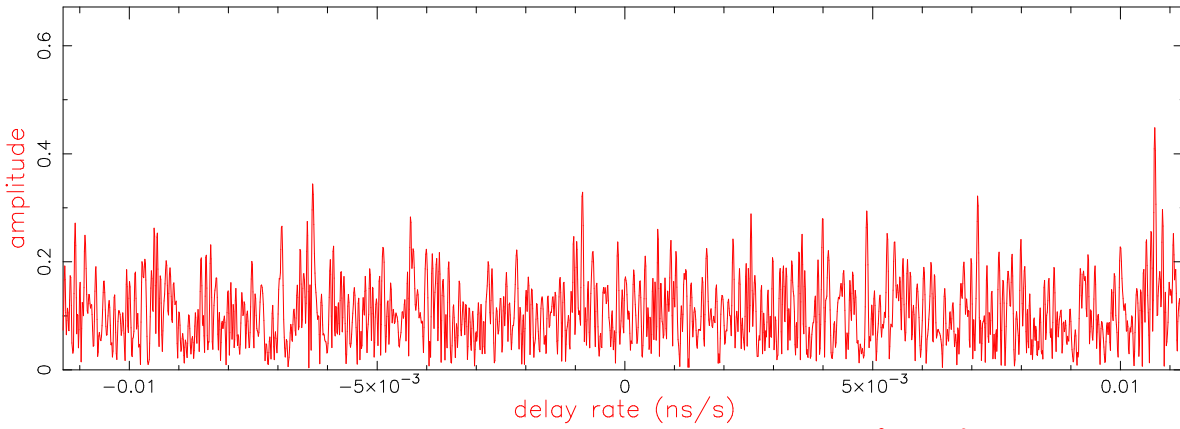
ph/seg (deg)	65.9	Theor.	27.2	Amplitude	3.050 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	89.8		47.4	Search (2048X8)	3.025	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		1.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.8		2.8	Inc. seg. avg.	4.813	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	3.026	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

B: az 247.2 el 37.9 pa 37.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 7.171 1470.823 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BY.W.128.0QR3WR

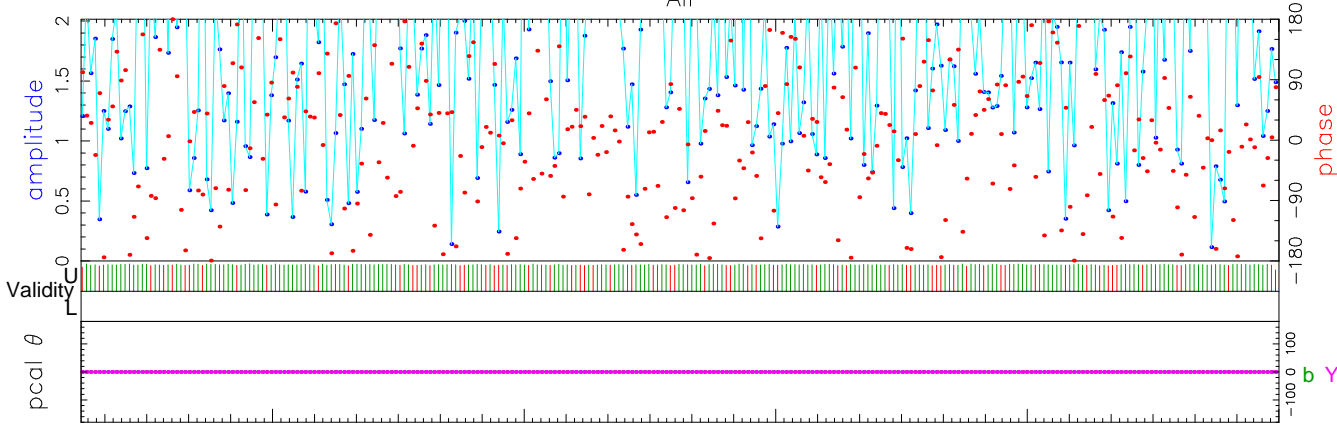
Fringe quality 0

SNR 5.1
Int time 274.630
Amp 0.672
Phase 312.5
PFD 1.0e+00
Delays (us)
SBD -0.544753
MBD 0.000005
Fringe rate (Hz)
0.920649
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174154
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



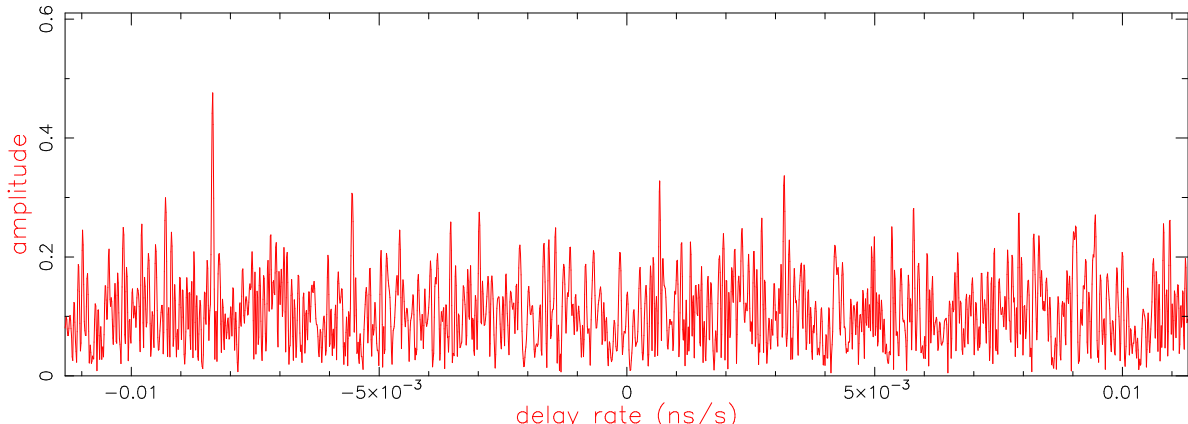
86204.00
1.4
0.7
443.3
U/L 558/0
b 1000
Y 0
b:Y 0:0
b:Y 0:0
b 1000
Y 1000
b W06UL
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

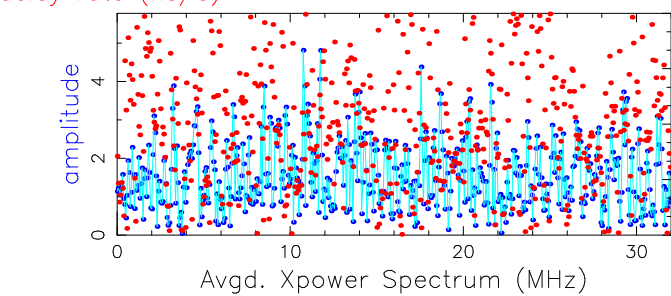
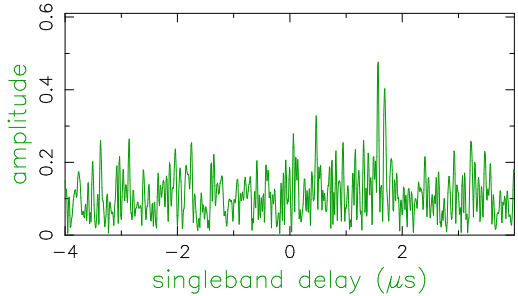
Group delay (usec)(sbd)	-8.12507083459E+03	Apriori delay (usec)	-8.12452608509E+03	Resid mbdelay (usec)	4.81156E-06	+/-	3.4E-03
Sband delay (usec)	-8.12507083859E+03	Apriori clock (usec)	8.9446554E+00	Resid sbdelay (usec)	-5.44753E-01	+/-	3.4E-03
Phase delay (usec)	-8.12452608505E+03	Apriori clockrate (us/s)	1.8999998E-07	Resid phdelay (usec)	4.45405E-08	+/-	7.2E-07
Delay rate (us/s)	1.69911292185E+00	Apriori rate (us/s)	1.69910223402E+00	Resid rate (us/s)	1.06878E-05	+/-	4.4E-09
Total phase (deg)	323.3	Apriori accel (us/s/s)	4.62451310326E-05	Resid phase (deg)	312.5	+/-	22.4

ph/seg (deg)	93.5	Theor.	186.9	Amplitude	0.672 +/- 0.131	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	379.0	Search (2048X8)	0.442	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.441	Inc. seg. avg.	0.441	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.8	Inc. frq. avg.	0.654	Inc. frq. avg.	0.654	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000

b: az 88.2 el 20.4 pa -44.0 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10075.155 1914.760 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bY.W.26.0QR3WR



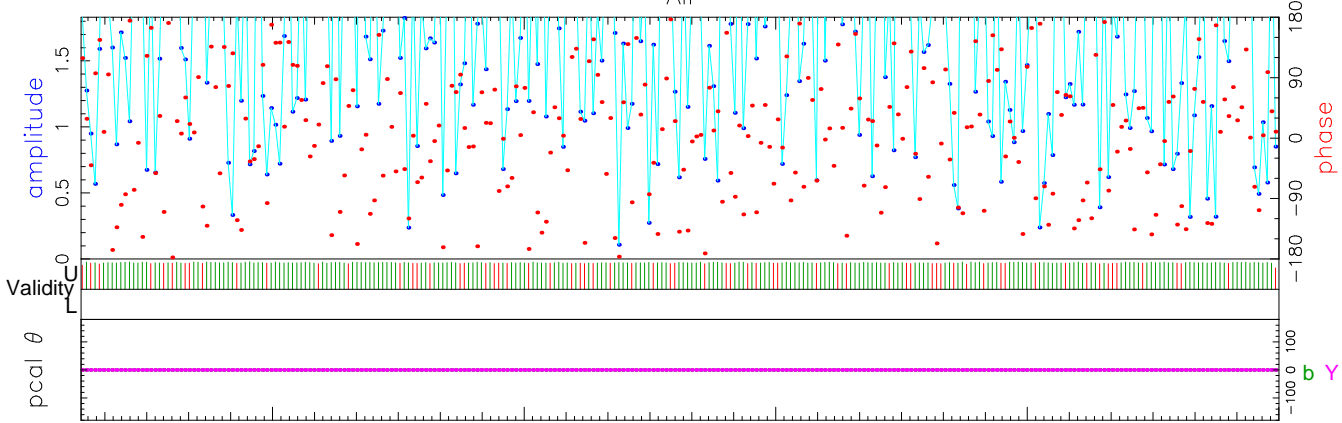
Fringe quality 0
SNR 5.5
Int time 274.629
Amp 0.610
Phase -93.0
PFD 9.9e-01
Delays (us)
SBD 1.567361
MBD -0.000007
Fringe rate (Hz)
-0.719650
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174155
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



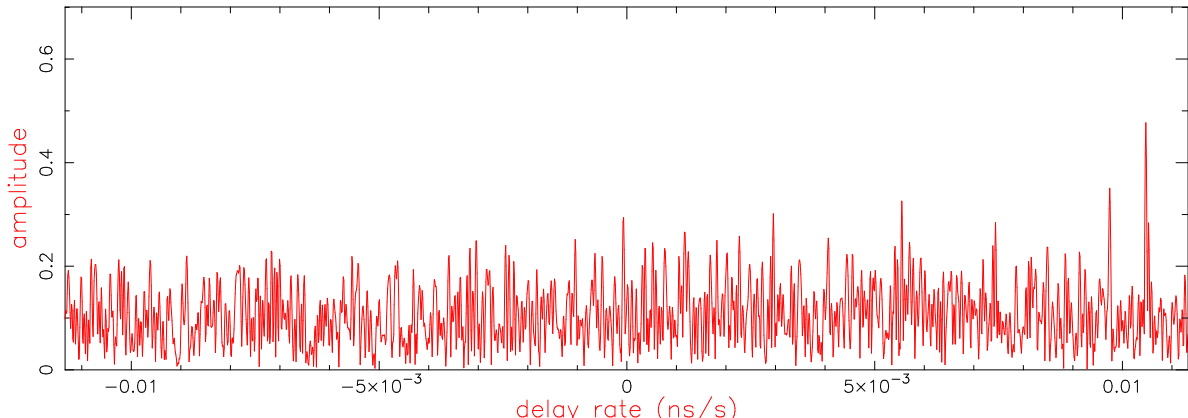
86204.00
19.0
0.6
713.6
U/L 558/0
b 1000
Y 0
b:Y 0:0
b:Y 0:0
b 1000
Y 1000
b W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

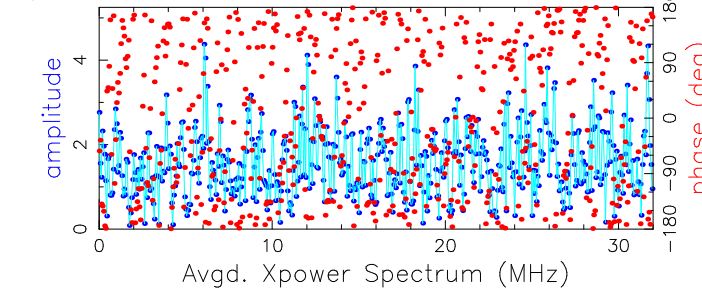
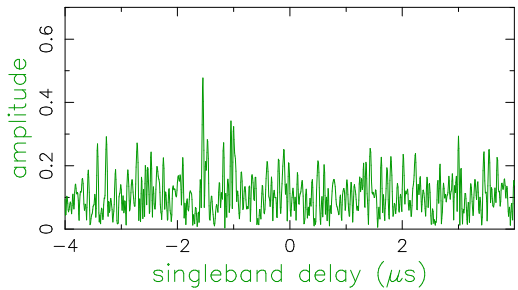
Group delay (usec)(sbd)	-8.12295872838E+03	Apriori delay (usec)	-8.12452608509E+03	Resid mbdelay (usec)	-6.74642E-06	+/-	3.1E-03
Sband delay (usec)	-8.12295872409E+03	Apriori clock (usec)	8.9446554E+00	Resid sbdelay (usec)	1.56736E+00	+/-	3.1E-03
Phase delay (usec)	-8.12452608448E+03	Apriori clockrate (us/s)	1.8999998E-07	Resid phdelay (usec)	6.13077E-07	+/-	6.8E-07
Delay rate (us/s)	1.69909387961E+00	Apriori rate (us/s)	1.69910223402E+00	Resid rate (us/s)	-8.35442E-06	+/-	4.1E-09
Total phase (deg)	-82.2	Apriori accel (us/s/s)	4.62451310326E-05	Resid phase (deg)	-93.0	+/-	20.9

ph/seg (deg)	91.9	Theor.	174.9	Amplitude	0.610 +/- 0.112	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	347.8	Search (2048X8)	0.470	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.415	Inc. seg. avg.	0.415	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.4	Inc. frq. avg.	0.592	Inc. frq. avg.	0.592	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10075.155 1914.760 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bY.W.40.0QR3WR

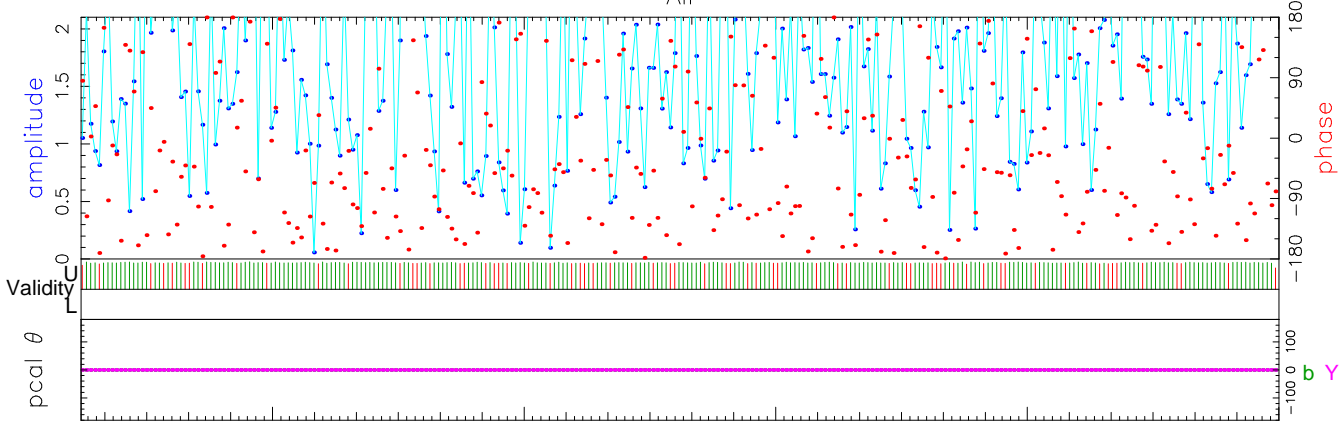


Fringe quality 0
 SNR 5.4
 Int time 274.630
 Amp 0.701
 Phase 293.8
 PFD 1.0e+00
 Delays (us)
 SBD -1.548599
 MBD 0.000007
 Fringe rate (Hz) 0.901287
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174156
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00	-106.1	0.7	314.8	U/L 558/0	b 1000	Y 0	b:Y 0:0	b:Y 0:0	b 1000	Y 1000	b W06UL	Y W06UR	86204.00	-106.1	0.7	314.8	U/L 558/0	b 1000	Y 0	b:Y 0:0	b:Y 0:0	b 1000	Y 1000	b W06UL	Y W06UR	Chan ids	Chan ids
----------	--------	-----	-------	-----------	--------	-----	---------	---------	--------	--------	---------	---------	----------	--------	-----	-------	-----------	--------	-----	---------	---------	--------	--------	---------	---------	----------	----------

Group delay (usec)(sbd)	-8.12607468366E+03	Apriori delay (usec)	-8.12452608509E+03	Resid mbdelay (usec)	7.06621E-06	+/-	3.2E-03
Sband delay (usec)	-8.12607468459E+03	Apriori clock (usec)	8.9446554E+00	Resid sbdelay (usec)	-1.54860E+00	+/-	3.2E-03
Phase delay (usec)	-8.12452608851E+03	Apriori clockrate (us/s)	1.8999998E-07	Resid phdelay (usec)	-3.42160E-06	+/-	6.8E-07
Delay rate (us/s)	1.69911269707E+00	Apriori rate (us/s)	1.69910223402E+00	Resid rate (us/s)	1.04630E-05	+/-	4.1E-09
Total phase (deg)	304.6	Apriori accel (us/s/s)	4.62451310326E-05	Resid phase (deg)	293.8	+/-	21.1

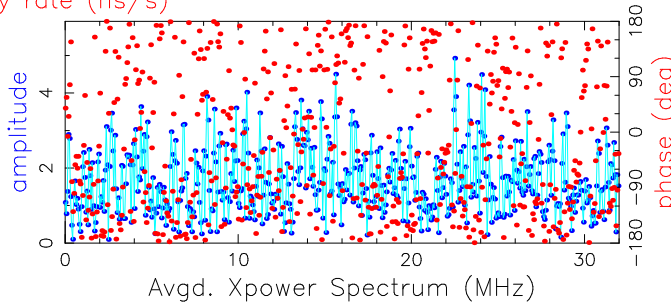
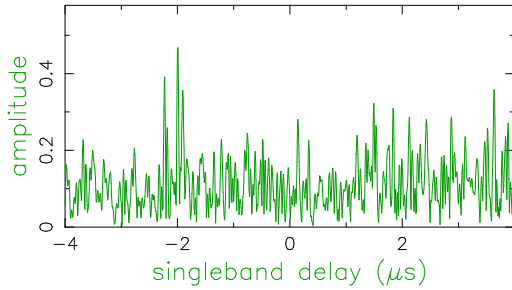
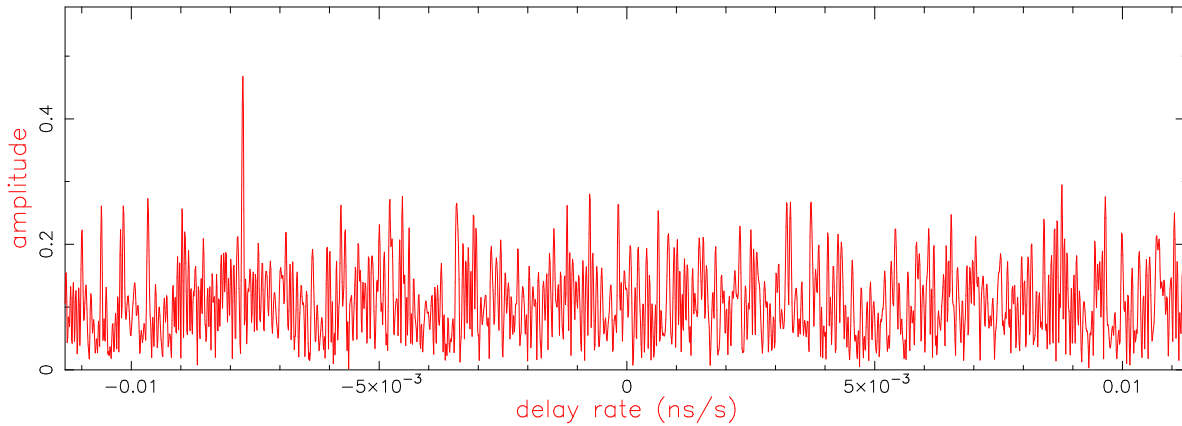
ph/seg (deg)	86.7	Theor.	176.1	Amplitude	0.701 +/- 0.129	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	337.7	Search (2048X8)	0.475	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.5	Inc. seg. avg.	0.461	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.685	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00		

b: az 88.2 el 20.4 pa -44.0 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10075.155 1914.760 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bY.W.51.0QR3WR

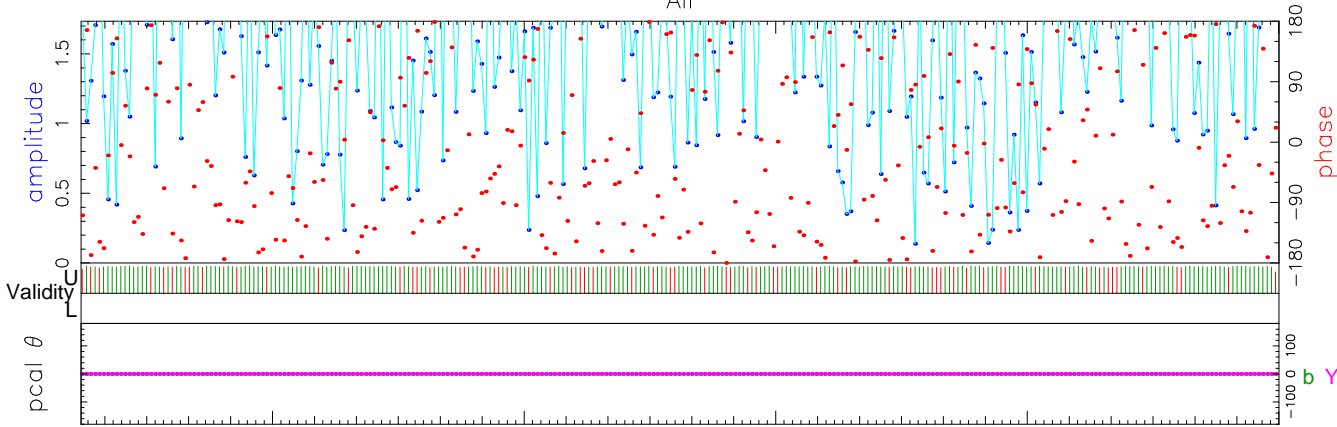
Fringe quality 0

SNR 5.4
Int time 274.629
Amp 0.578
Phase 124.9
PFD 1.0e+00
Delays (us)
SBD -1.995031
MBD -0.000005
Fringe rate (Hz)
-0.667123
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174157
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-120.5
0.6
257.6
U/L 558/0
b 1000
Y 0
b:Y 0:0
b:Y 0:0
b 1000
Y 1000
b W06UR
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

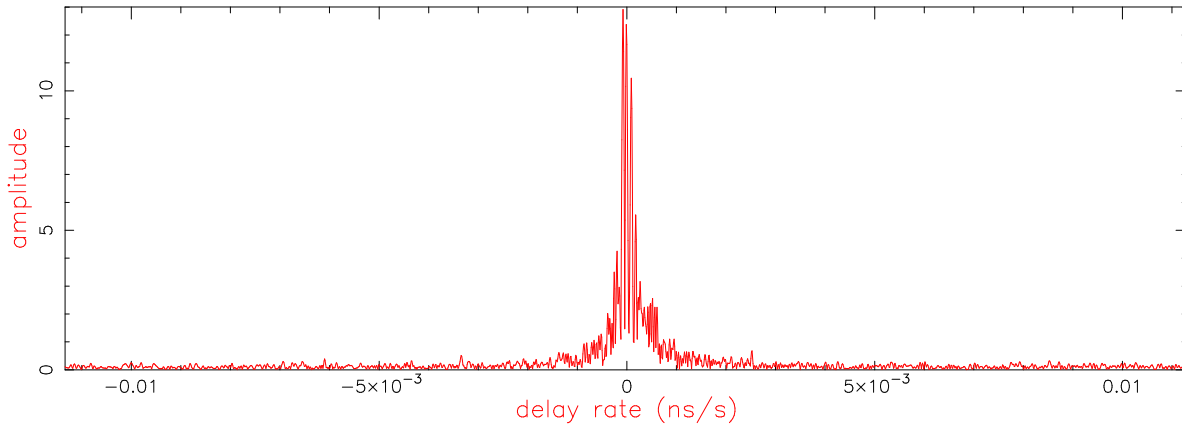
Group delay (usec)(sbd)	-8.12652111352E+03	Apriori delay (usec)	-8.12452608509E+03	Resid mbdelay (usec)	-4.99606E-06	+/-	3.2E-03
Sband delay (usec)	-8.12652111609E+03	Apriori clock (usec)	8.9446554E+00	Resid sbdelay (usec)	-1.99503E+00	+/-	3.2E-03
Phase delay (usec)	-8.12452608898E+03	Apriori clockrate (us/s)	1.8999998E-07	Resid phdelay (usec)	-3.88492E-06	+/-	6.9E-07
Delay rate (us/s)	1.69909448939E+00	Apriori rate (us/s)	1.69910223402E+00	Resid rate (us/s)	-7.74463E-06	+/-	4.2E-09
Total phase (deg)	135.7	Apriori accel (us/s/s)	4.62451310326E-05	Resid phase (deg)	124.9	+/-	21.4

ph/seg (deg)	88.6	Theor.	178.4	Amplitude	0.578 +/- 0.108	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	338.9	Search (2048X8)	0.457	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.373	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.3	Inc. frq. avg.	0.561	Inc. frq. avg.	0.561	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

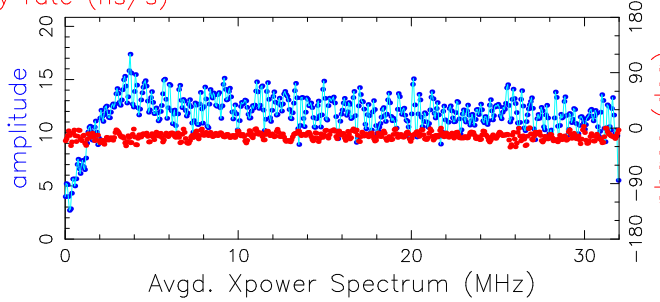
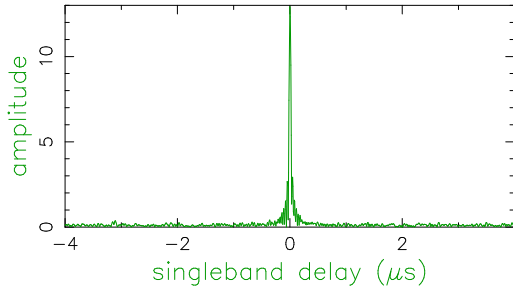
b: az 88.2 el 20.4 pa -44.0 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10075.155 1914.760 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bY.W.67.0QR3WR

Fringe quality 7

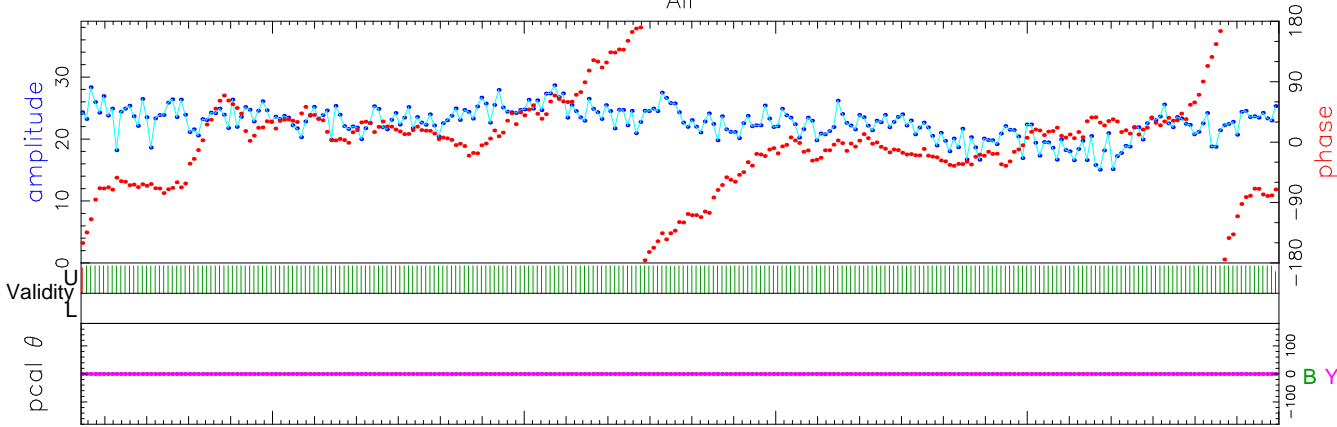


SNR 150.2
 Int time 285.318
 Amp 13.004
 Phase -48.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.002050
 MBD -0.000007
 Fringe rate (Hz)
 -0.006443
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174159
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 -1.0
 12.9
 513.3
 U/L 558/0
 B 0
 Y 0
 B:Y 0:0
 B:Y 0:0
 B 1000
 Y 1000
 B W06UL
 Y W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

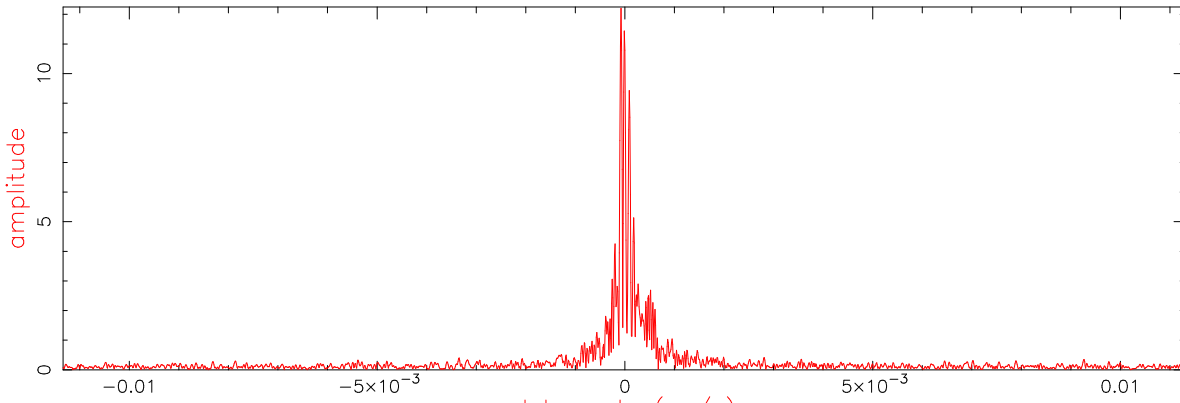
Group delay (usec)(sbd)	-2.80467751158E+03	Apriori delay (usec)	-2.80467955760E+03	Resid mbdelay (usec)	-7.24807E-06	+/-	1.1E-04
Sband delay (usec)	-2.80467750760E+03	Apriori clock (usec)	1.2879183E+01	Resid sbdelay (usec)	2.05000E-03	+/-	1.1E-04
Phase delay (usec)	-2.80467955763E+03	Apriori clockrate (us/s)	-2.3700001E-07	Resid phdelay (usec)	-3.09642E-08	+/-	2.5E-08
Delay rate (us/s)	2.87582786436E-03	Apriori rate (us/s)	2.87590266608E-03	Resid rate (us/s)	-7.48017E-08	+/-	1.5E-10
Total phase (deg)	-81.2	Apriori accel (us/s/s)	1.88398071791E-05	Resid phase (deg)	-48.3	+/-	0.8

ph/seg (deg)	62.7	Theor.	6.4	Amplitude	13.004 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	76.7		11.1	Search (2048X8)	12.825	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.7		0.7	Inc. seg. avg.	22.526	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	12.917	Data rate(Mb/s):	128	nlags:	512
								t_cohere	infinite
								ion window (TEC)	0.00 0.00

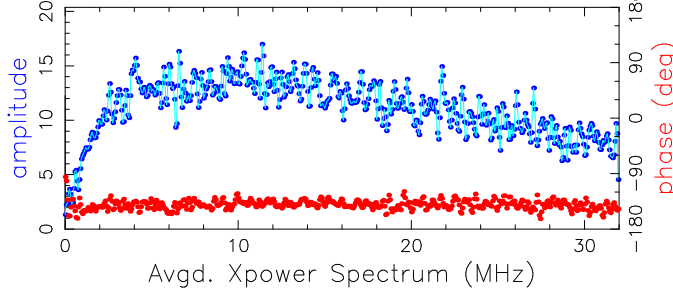
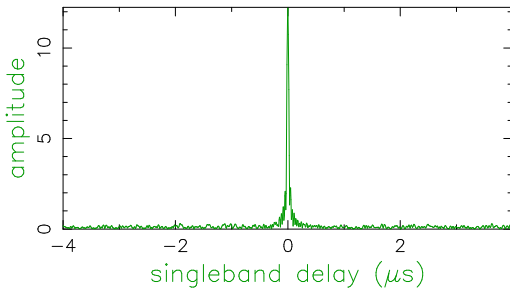
B: az 247.2 el 37.9 pa 37.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 7.171 1470.823 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BY.W.86.0QR3WR

Fringe quality 7



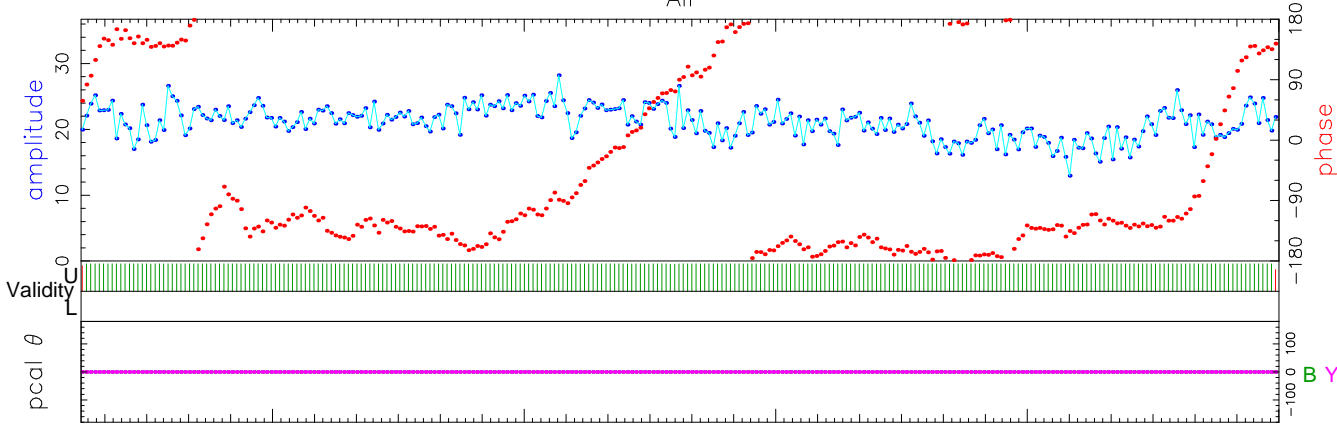
SNR 141.4
Int time 285.318
Amp 12.249
Phase -112.5
PFD 0.0e+00
Delays (us)
SBD -0.001597
MBD -0.000007
Fringe rate (Hz)
-0.006406
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-149.1
12.2
512.8
U/L 558/0
B 0
Y 0
B:Y 0:0
B:Y 0:0
B 1000
Y 1000
B W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.80468115370E+03	Apriori delay (usec)	-2.80467955760E+03	Resid mbdelay (usec)	-6.84562E-06	+/- 1.2E-04
Sband delay (usec)	-2.80468115460E+03	Apriori clock (usec)	1.2879183E+01	Resid sbdelay (usec)	-1.59700E-03	+/- 1.2E-04
Phase delay (usec)	-2.80467956241E+03	Apriori clockrate (us/s)	-2.3700001E-07	Resid phdelay (usec)	-4.80798E-06	+/- 2.6E-08
Delay rate (us/s)	2.87582829658E-03	Apriori rate (us/s)	2.87590266608E-03	Resid rate (us/s)	-7.43695E-08	+/- 1.6E-10
Total phase (deg)	-145.4	Apriori accel (us/s/s)	1.88398071791E-05	Resid phase (deg)	-112.5	+/- 0.8

ph/seg (deg)	RMS 62.6	Theor. 6.8	Amplitude 12.249 +/- 0.087	Search (2048X8)	12.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	75.1	11.8	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	0.4	Inc. seg. avg.	20.981		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.4	0.7	Inc. frq. avg.	12.204		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128		nlags: 512	t_cohere infinite	

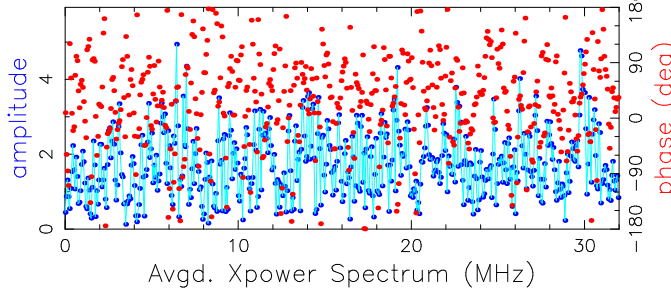
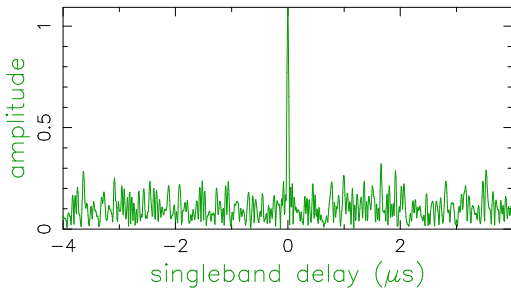
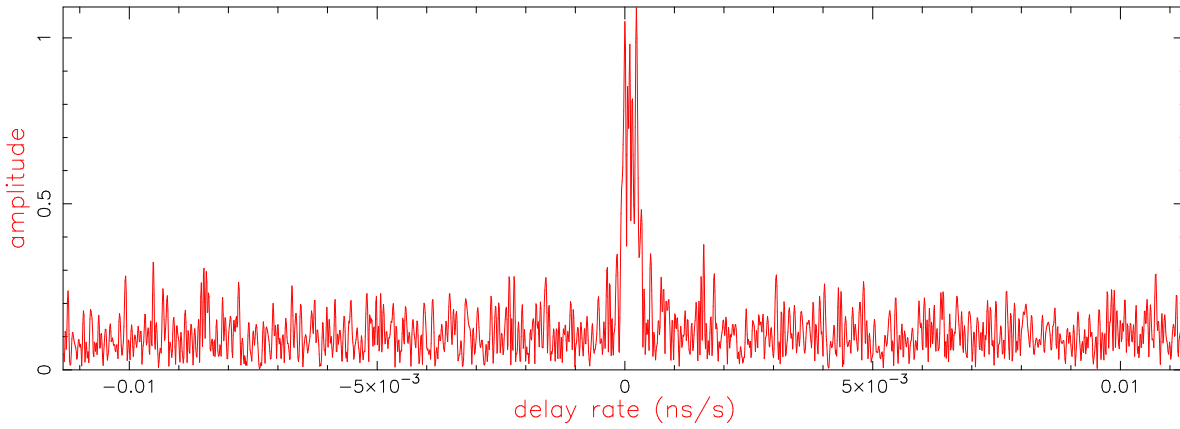
B: az 247.2 el 37.9 pa 37.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 7.171 1470.823 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BY.W.99.0QR3WR

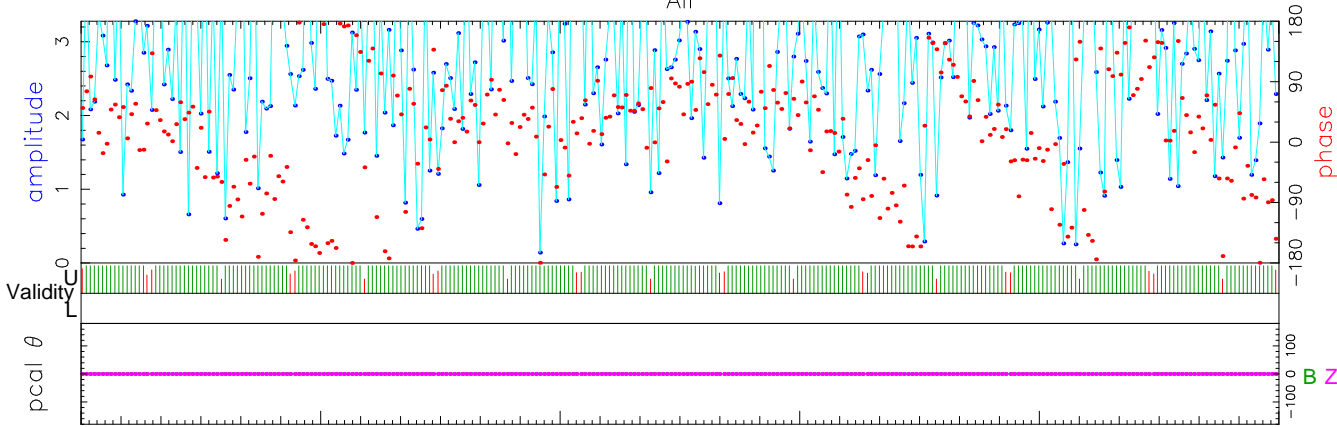
Fringe quality 9

SNR 12.8
Int time 291.742
Amp 1.093
Phase 59.5
PFD 7.2e-29
Delays (us)
SBD -0.001255
MBD 0.000007
Fringe rate (Hz)
0.019787
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



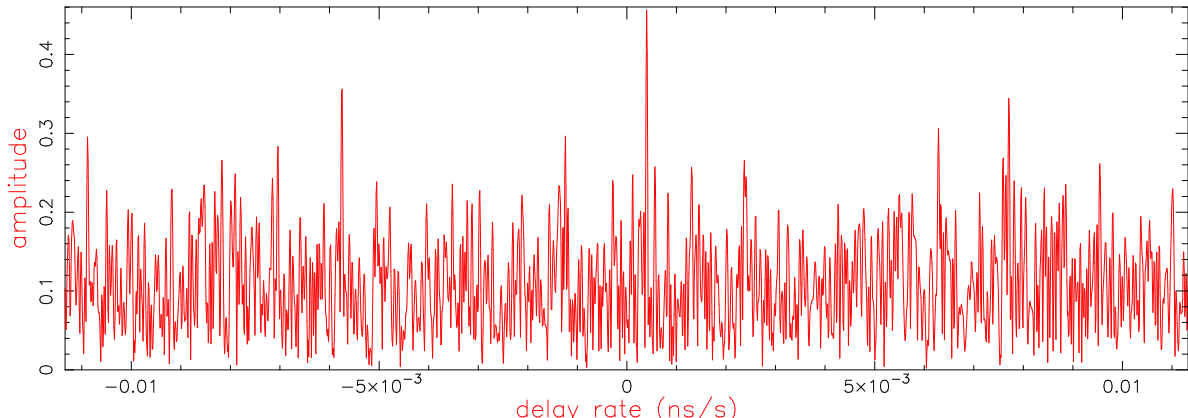
86204.00
30.4
1.1
512.8
U/L 586/0
B 0
Z 0
B:Z 0:0
B:Z 0:0
B 1000
Z 1000
B W06UL
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

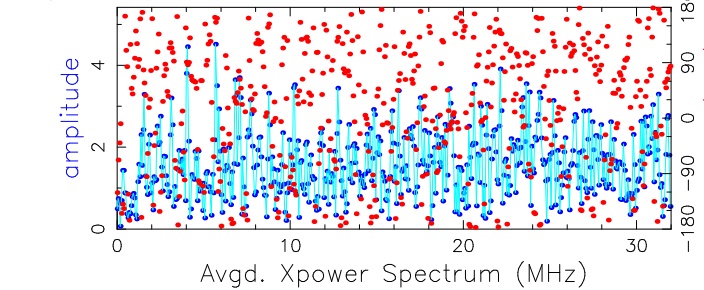
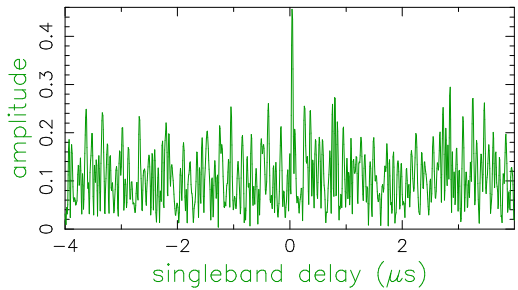
Group delay (usec)(sbd)	3.9208177879E+03	Apriori delay (usec)	3.92081904539E+03	Resid mbdelay (usec)	6.83866E-06	+/-	1.4E-03
Sband delay (usec)	3.92081779039E+03	Apriori clock (usec)	1.9753950E+01	Resid sbdelay (usec)	-1.25500E-03	+/-	1.4E-03
Phase delay (usec)	3.92081904637E+03	Apriori clockrate (us/s)	-5.9400000E-07	Resid phdelay (usec)	9.80270E-07	+/-	2.9E-07
Delay rate (us/s)	-4.21074852171E-02	Apriori rate (us/s)	-4.21077149300E-02	Resid rate (us/s)	2.29713E-07	+/-	1.7E-09
Total phase (deg)	264.8	Apriori accel (us/s/s)	-2.37817958873E-05	Resid phase (deg)	59.5	+/-	9.0

ph/seg (deg)	83.3	Theor.	76.8	Amplitude	1.093 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	203.1	Search (2048X8)	1.082	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	1.523	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	1.087	Inc. frq. avg.	1.087	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

B: az 247.2 el 37.9 pa 37.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BZ.W.104.0QR3WR



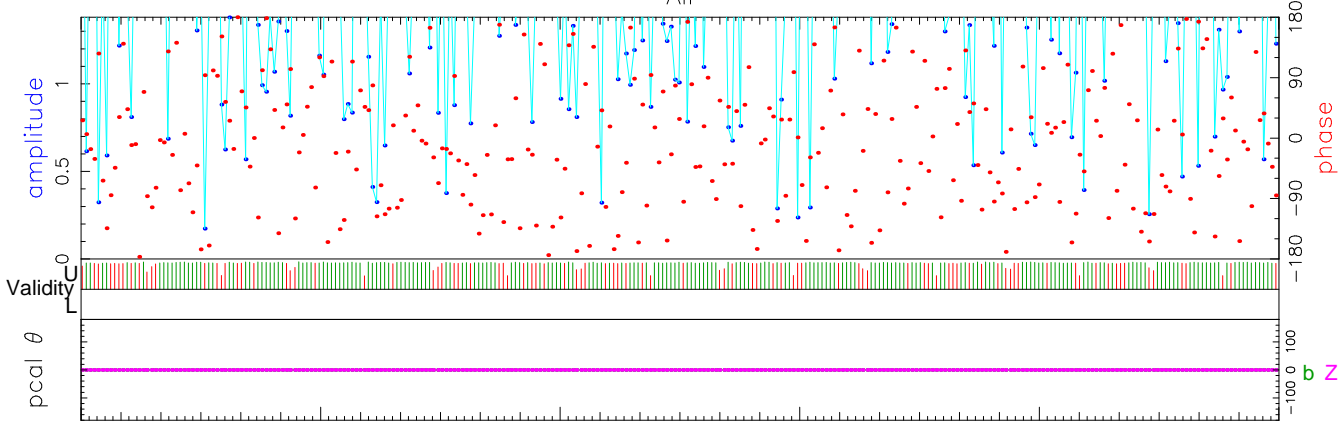
Fringe quality 0
SNR 5.3
Int time 280.770
Amp 0.460
Phase -260.2
PFD 1.0e+00
Delays (us)
SBD 0.041302
MBD 0.000004
Fringe rate (Hz) 0.034651
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



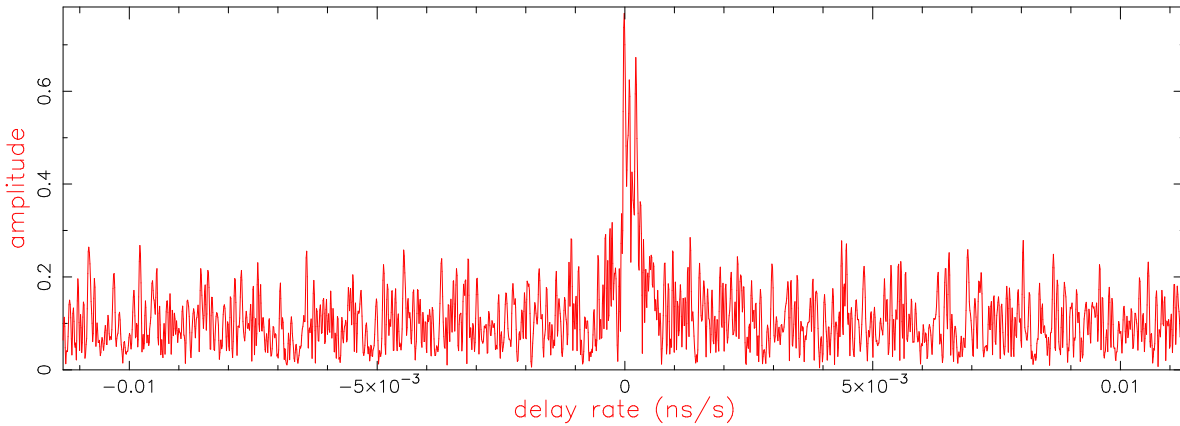
86204.00
-28.7
0.5
518.3
U/L 586/0
b 1000
Z 0
b:Z 0:0
b:Z 0:0
b 1000
Z 1000
b W06UL
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

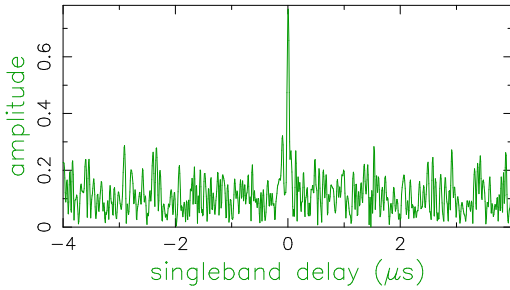
Group delay (usec)(sbd)	-1.39898618035E+03	Apriori delay (usec)	-1.39902748210E+03	Resid mbdelay (usec)	4.36202E-06	+/-	3.3E-03
Sband delay (usec)	-1.39898617960E+03	Apriori clock (usec)	1.5819423E+01	Resid sbdelay (usec)	4.13025E-02	+/-	3.3E-03
Phase delay (usec)	-1.39902748303E+03	Apriori clockrate (us/s)	-1.6700001E-07	Resid phdelay (usec)	-9.26201E-07	+/-	7.0E-07
Delay rate (us/s)	1.65411901870E+00	Apriori rate (us/s)	1.65411861643E+00	Resid rate (us/s)	4.02267E-07	+/-	4.0E-09
Total phase (deg)	-11.3	Apriori accel (us/s/s)	3.62352796621E-06	Resid phase (deg)	-260.2	+/-	21.7

ph/seg (deg) 91.1 186.1 Search (2048X8) 0.441 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 370.2 324.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 10.9 Inc. seg. avg. 0.301 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 0.9 19.0 Inc. frq. avg. 0.448 Sample rate(MSamp/s): 64 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 88.2 el 20.4 pa -44.0 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -9861.620 -920.276 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bZ.W.113.0QR3WR

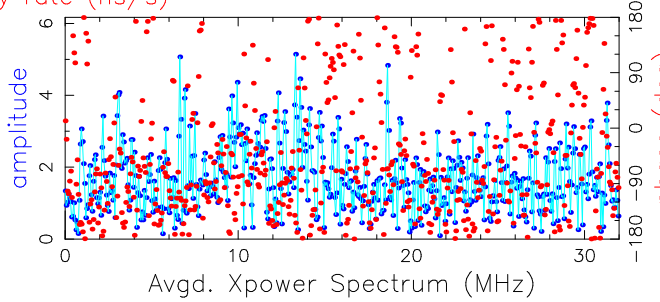
Fringe quality 9



SNR 9.1
Int time 291.742
Amp 0.781
Phase -171.1
PFD 1.4e-11
Delays (us)
SBD 0.004095
MBD -0.000007
Fringe rate (Hz)
-0.000979
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

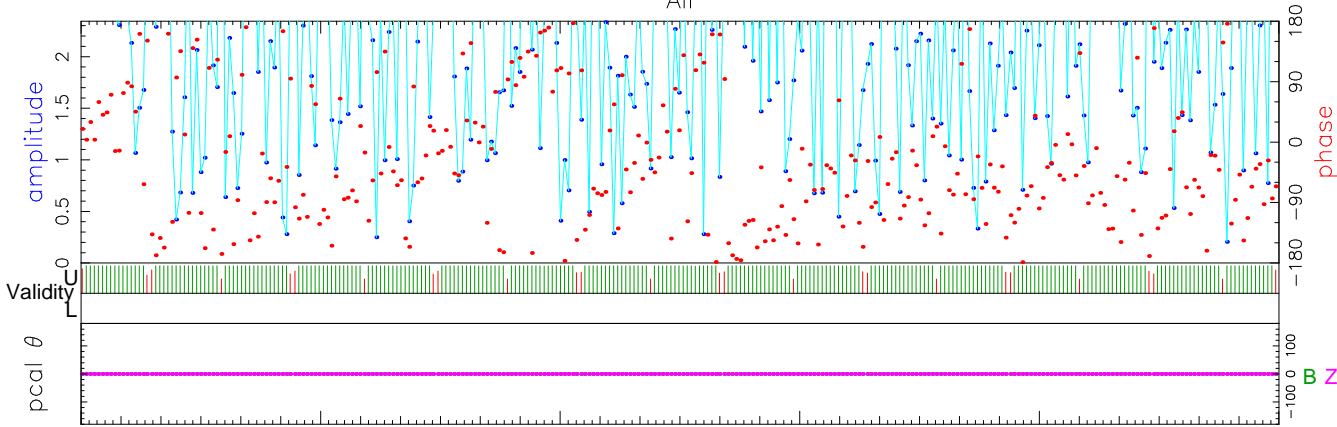


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-76.4
0.8
513.5
U/L 586/0
B 0
Z 0
B:Z 0:0
B:Z 0:0
B 1000
Z 1000
B W06UR
Z W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.92082314485E+03	Apriori delay (usec)	3.92081904539E+03	Resid mbdelay (usec)	-7.08143E-06	+/-	1.9E-03
Sband delay (usec)	3.92082314089E+03	Apriori clock (usec)	1.9753950E+01	Resid sbdelay (usec)	4.09550E-03	+/-	1.9E-03
Phase delay (usec)	3.92081904293E+03	Apriori clockrate (us/s)	-5.9400000E-07	Resid phdelay (usec)	-2.46515E-06	+/-	4.0E-07
Delay rate (us/s)	-4.21077262953E-02	Apriori rate (us/s)	-4.21077149300E-02	Resid rate (us/s)	-1.13653E-08	+/-	2.3E-09
Total phase (deg)	34.2	Apriori accel (us/s/s)	-2.37817958873E-05	Resid phase (deg)	-171.1	+/-	12.6

ph/seg (deg)	84.9	Theor.	107.5	Amplitude	0.781 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	248.4	Search (2048X8)	0.767	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.830	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	1.7	Inc. frq. avg.	0.763	Inc. frq. avg.	0.763	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

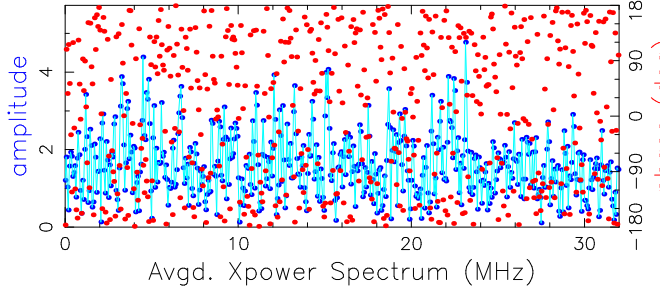
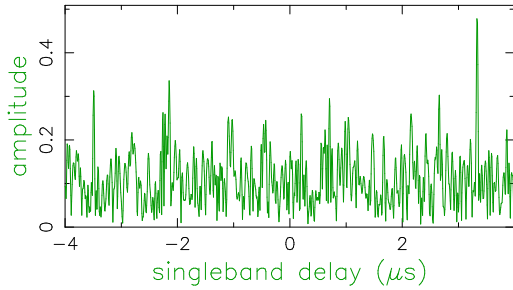
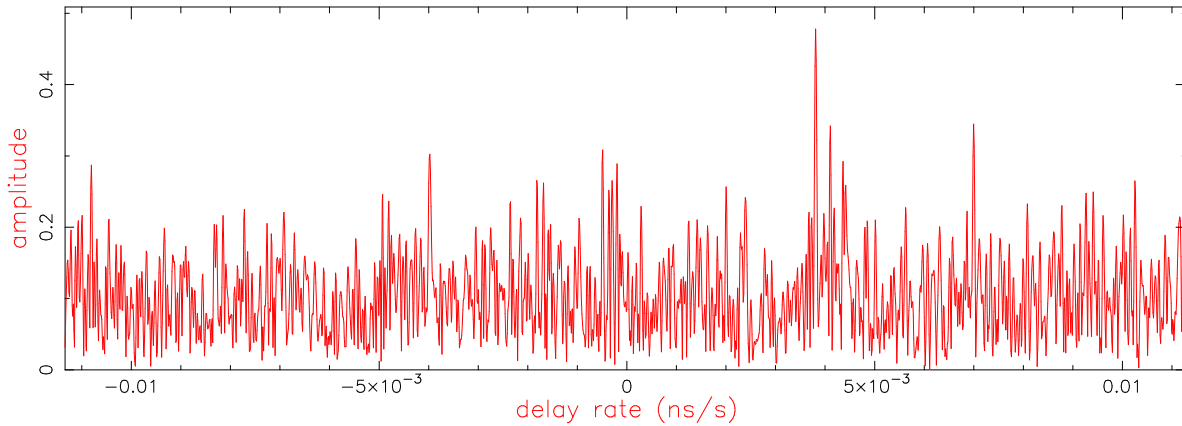
B: az 247.2 el 37.9 pa 37.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BZ.W.126.0QR3WR

Fringe quality 0

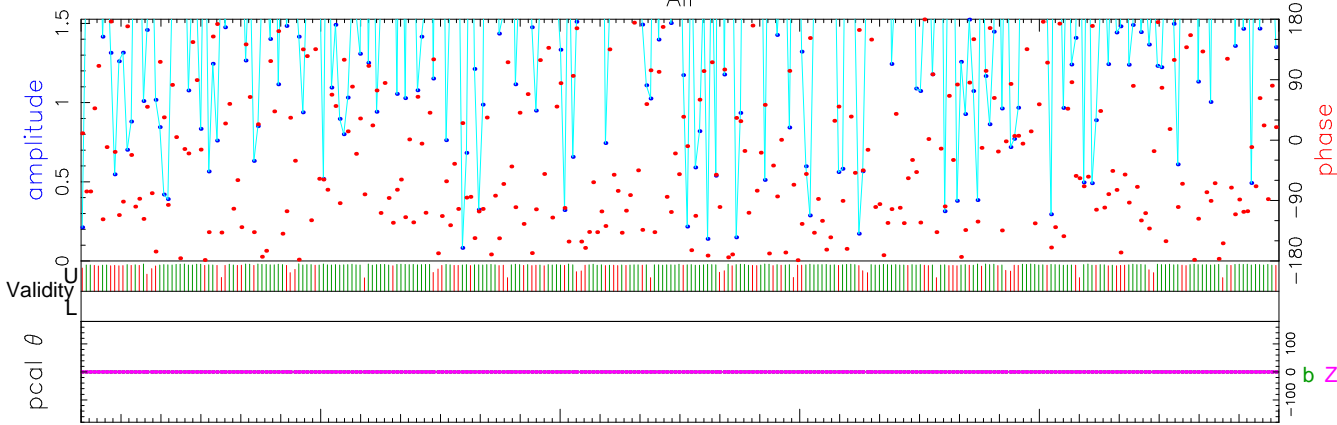
SNR 5.6
Int time 280.771
Amp 0.509
Phase -172.0
PFD 9.6e-01
Delays (us)
SBD 3.331315
MBD 0.000007
Fringe rate (Hz)
0.327942
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-98.7
0.5
939.4
U/L 586/0
b 1000
Z 0
b:Z 0:0
b:Z 0:0
b 1000
Z 1000
b W06UR
Z W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp

Chan ids

Chan ids

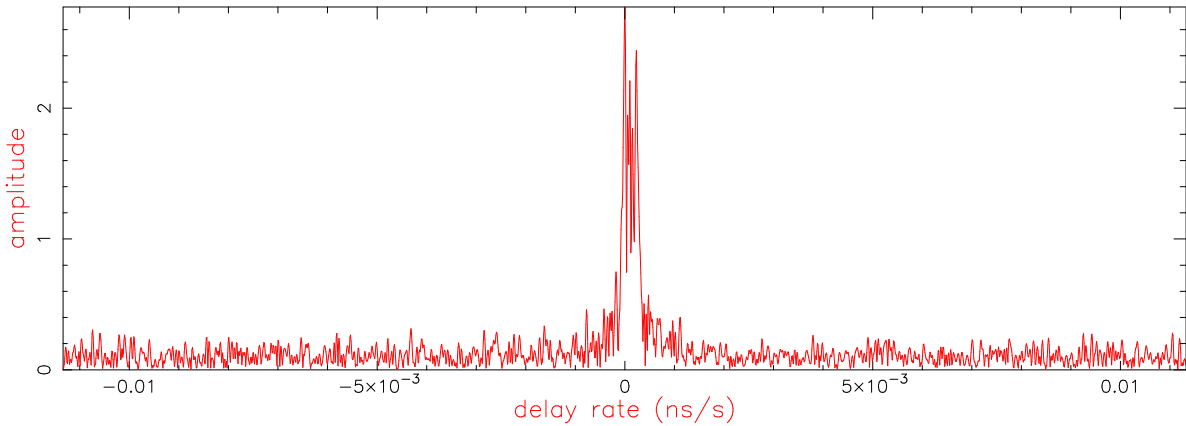
Group delay (usec)(sbd)	-1.39569616773E+03	Apriori delay (usec)	-1.39902748210E+03	Resid mbdelay (usec)	7.24653E-06	+/-	3.1E-03
Sband delay (usec)	-1.39569616710E+03	Apriori clock (usec)	1.5819423E+01	Resid sbdelay (usec)	3.33132E+00	+/-	3.1E-03
Phase delay (usec)	-1.39902748529E+03	Apriori clockrate (us/s)	-1.6700001E-07	Resid phdelay (usec)	-3.18298E-06	+/-	6.6E-07
Delay rate (us/s)	1.65412242350E+00	Apriori rate (us/s)	1.65411861643E+00	Resid rate (us/s)	3.80708E-06	+/-	3.8E-09
Total phase (deg)	-283.1	Apriori accel (us/s/s)	3.62352796621E-06	Resid phase (deg)	-172.0	+/-	20.6

ph/seg (deg)	92.4	Theor.	176.3	Amplitude	0.509 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	352.4	Search (2048X8)	0.477	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.340	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.6	Inc. frq. avg.	0.493	Inc. frq. avg.	0.493	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

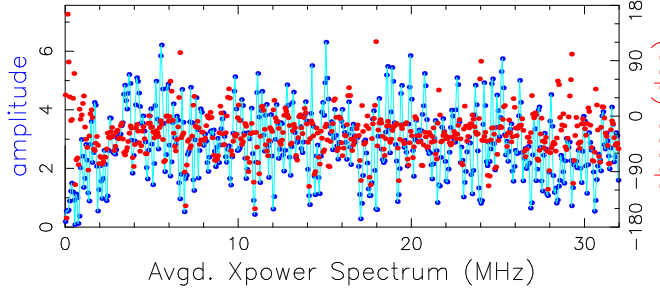
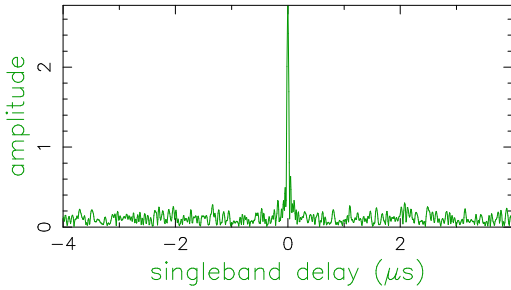
b: az 88.2 el 20.4 pa -44.0 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -9861.620 -920.276 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bZ.W.134.0QR3WR

Fringe quality 9

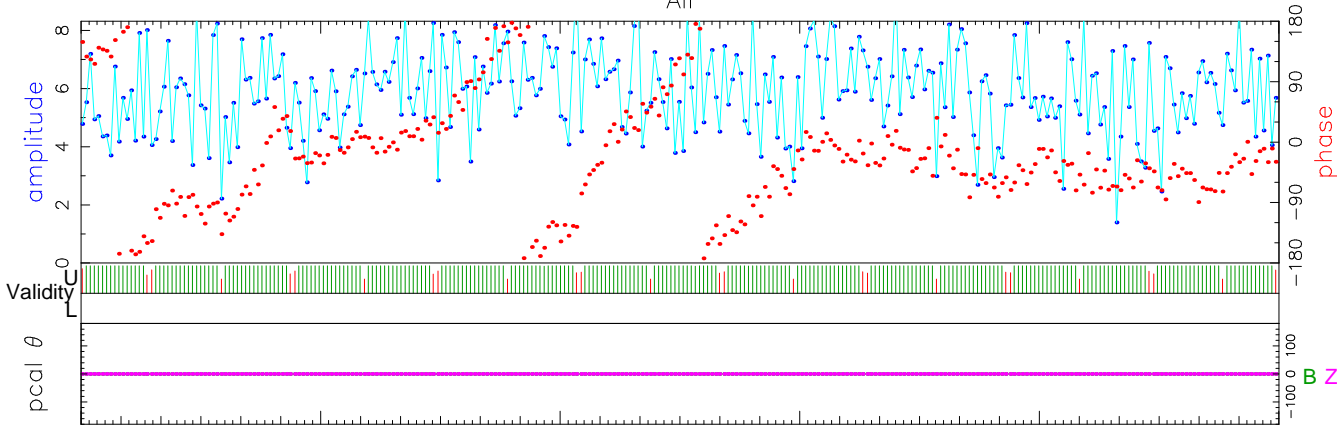


SNR 32.4
 Int time 291.742
 Amp 2.773
 Phase -3.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.001479
 MBD -0.000006
 Fringe rate (Hz)
 -0.000338
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174159
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



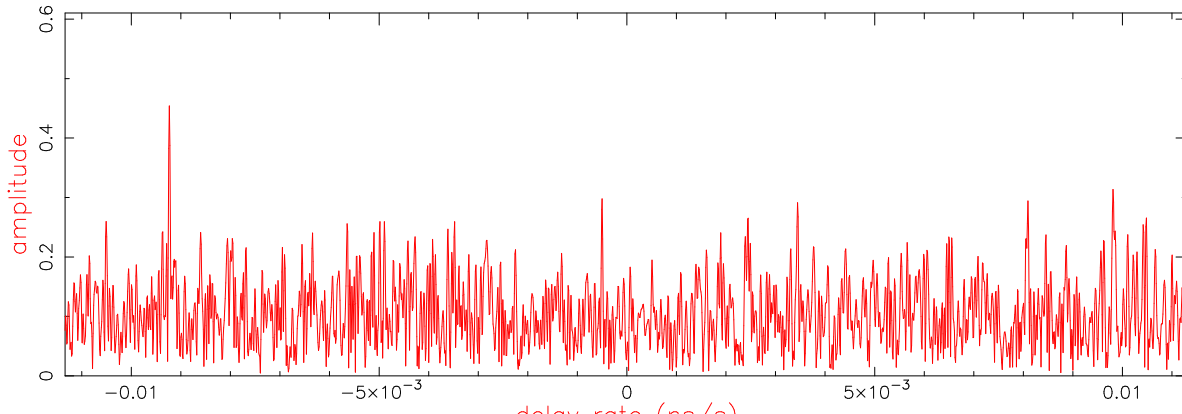
86204.00
 -37.2
 2.8
 512.8
 U/L 586/0
 B 0
 Z 0
 B:Z 0:0
 B:Z 0:0
 B 1000
 Z 1000
 B W06UL
 Z W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

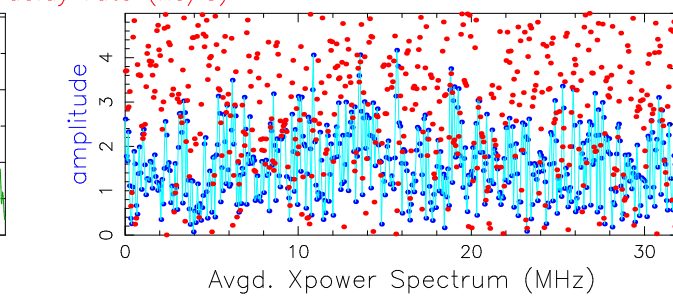
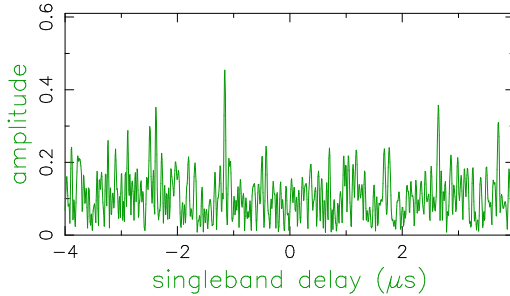
Group delay (usec)(sbd)	3.92081756618E+03	Apriori delay (usec)	3.92081904539E+03	Resid mbdelay (usec)	-5.96668E-06	+/- 5.3E-04
Sband delay (usec)	3.92081756589E+03	Apriori clock (usec)	1.9753950E+01	Resid sbdelay (usec)	-1.47950E-03	+/- 5.3E-04
Phase delay (usec)	3.92081904419E+03	Apriori clockrate (us/s)	-5.9400000E-07	Resid phdelay (usec)	-1.19902E-06	+/- 1.1E-07
Delay rate (us/s)	-4.21077188519E-02	Apriori rate (us/s)	-4.21077149300E-02	Resid rate (us/s)	-3.92187E-09	+/- 6.6E-10
Total phase (deg)	202.0	Apriori accel (us/s/s)	-2.37817958873E-05	Resid phase (deg)	-3.2	+/- 3.5

ph/seg (deg)	RMS 73.6	Theor. 30.3	Amplitude 2.773 +/- 0.086	Search (2048X8)	2.731	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	125.4	52.9	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	1.8	Inc. seg. avg.	5.211		Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.3	3.1	Inc. frq. avg.	2.763		Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 247.2 el 37.9 pa 37.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BZ.W.78.0QR3WR



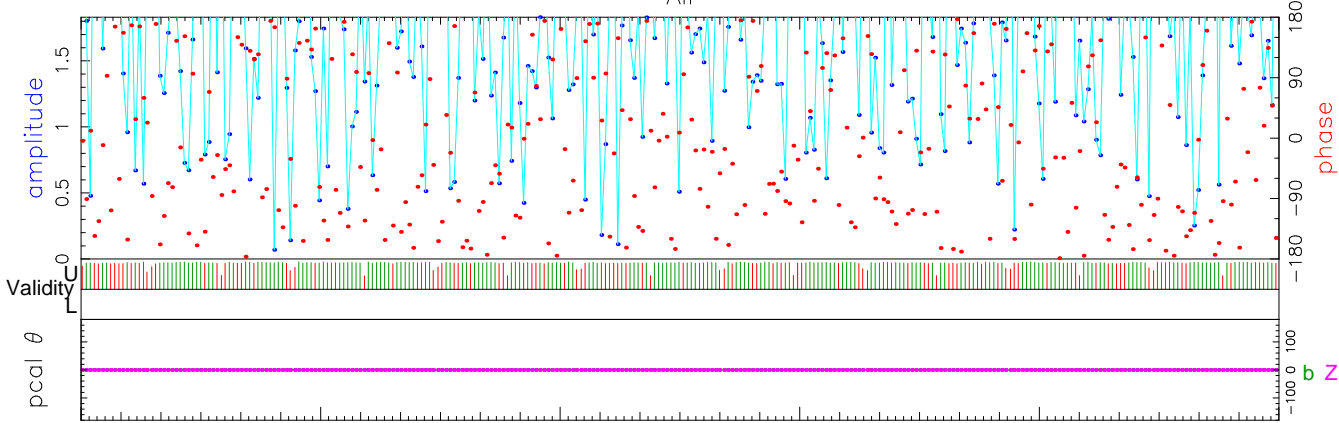
Fringe quality 0
SNR 5.2
Int time 280.770
Amp 0.610
Phase 275.4
PFD 1.0e+00
Delays (us)
SBD -1.158317
MBD -0.000005
Fringe rate (Hz)
-0.794427
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-132.0
0.6
364.7
U/L 586/0
b 1000
Z 0
b:Z 0:0
b:Z 0:0
b 1000
Z 1000
b W06UL
Z W06UL

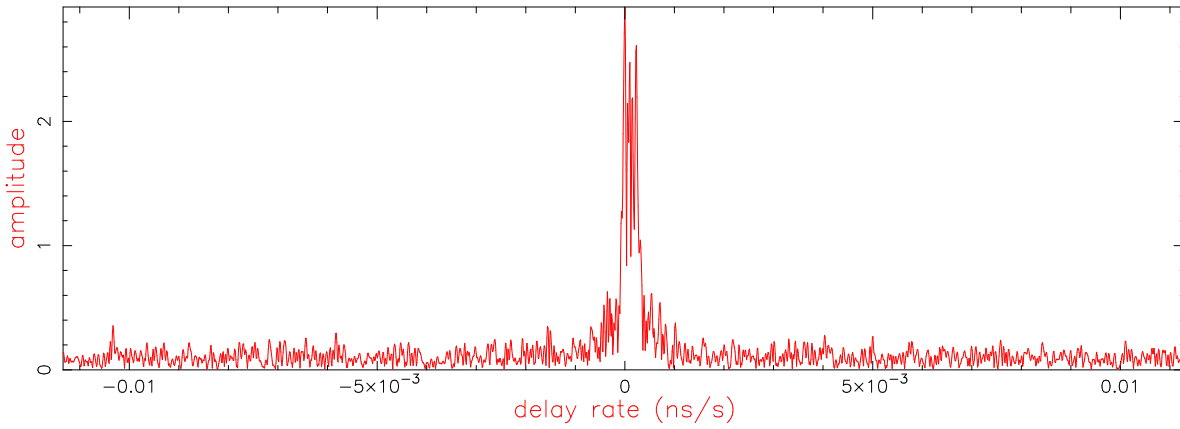
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.40018579802E+03	Apriori delay (usec)	-1.39902748210E+03	Resid mbdelay (usec)	-5.39465E-06	+/-	3.3E-03
Sband delay (usec)	-1.40018579910E+03	Apriori clock (usec)	1.5819423E+01	Resid sbdelay (usec)	-1.15832E+00	+/-	3.3E-03
Phase delay (usec)	-1.39902748636E+03	Apriori clockrate (us/s)	-1.6700001E-07	Resid phdelay (usec)	-4.25750E-06	+/-	7.1E-07
Delay rate (us/s)	1.65410939392E+00	Apriori rate (us/s)	1.65411861643E+00	Resid rate (us/s)	-9.22251E-06	+/-	4.1E-09
Total phase (deg)	164.4	Apriori accel (us/s/s)	3.62352796621E-06	Resid phase (deg)	275.4	+/-	21.9

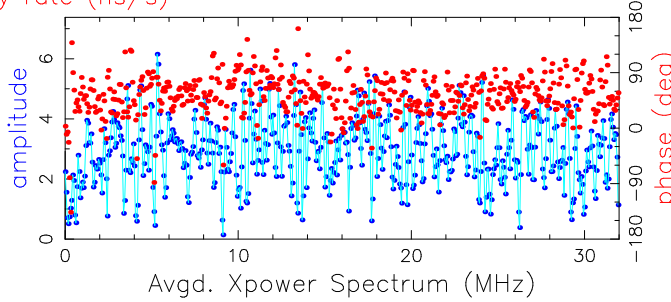
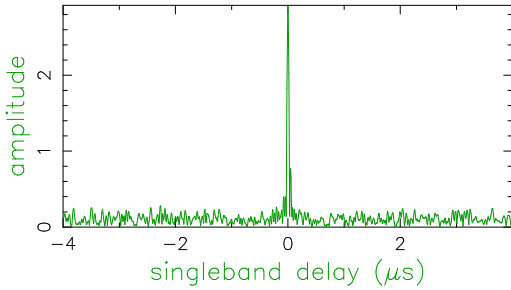
ph/seg (deg)	90.8	Theor.	187.2	Amplitude	0.610 +/- 0.117	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	370.5	Search (2048X8)	0.451	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.393	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.595	Inc. frq. avg.	0.595	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

b: az 88.2 el 20.4 pa -44.0 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -9861.620 -920.276 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bZ.W.82.0QR3WR

Fringe quality 9

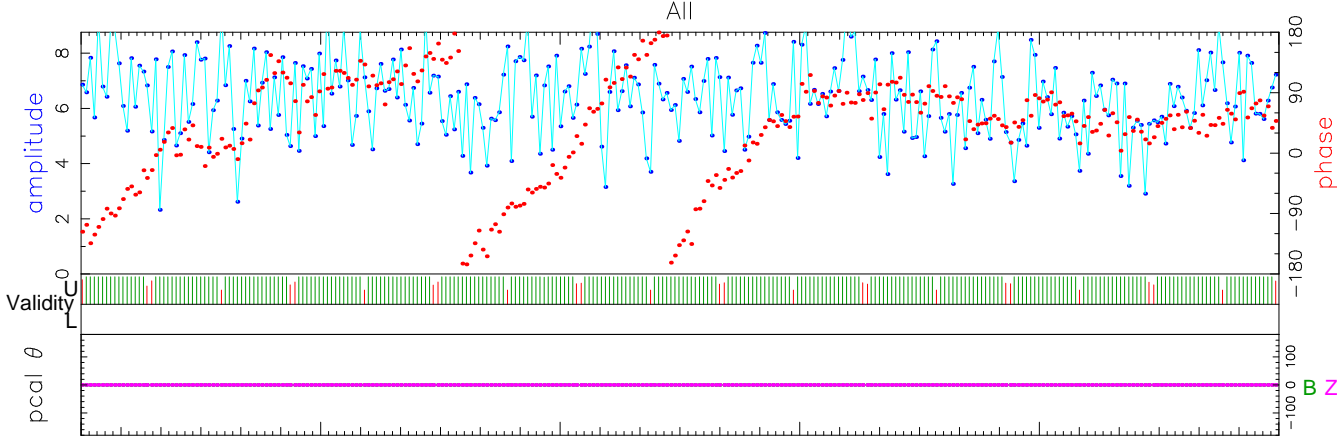


SNR 34.1
 Int time 291.742
 Amp 2.921
 Phase 36.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.001070
 MBD -0.000007
 Fringe rate (Hz)
 -0.000150
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174200
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 60.9
 2.9
 513.1
 U/L 586/0
 B 0
 Z 0
 B:Z 0:0
 B:Z 0:0
 B 1000
 Z 1000
 B W06UR
 Z W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.92082011705E+03	Apriori delay (usec)	3.92081904539E+03	Resid mbdelay (usec)	-7.17540E-06	+/-	5.1E-04
Sband delay (usec)	3.92082011539E+03	Apriori clock (usec)	1.9753950E+01	Resid sbdelay (usec)	1.07000E-03	+/-	5.1E-04
Phase delay (usec)	3.92081904735E+03	Apriori clockrate (us/s)	-5.9400000E-07	Resid phdelay (usec)	1.96227E-06	+/-	1.1E-07
Delay rate (us/s)	-4.21077166688E-02	Apriori rate (us/s)	-4.21077149300E-02	Resid rate (us/s)	-1.73880E-09	+/-	6.3E-10
Total phase (deg)	241.2	Apriori accel (us/s/s)	-2.37817958873E-05	Resid phase (deg)	36.0	+/-	3.4

ph/seg (deg)	73.7	Theor.	28.8	Amplitude	2.921 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	128.4	Search (2048X8)	2.909	Search	2.909	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	5.680	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.2	Inc. frq. avg.	2.914	Inc. frq. avg.	2.914	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

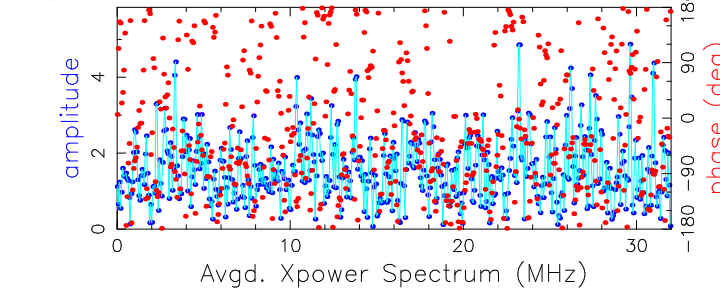
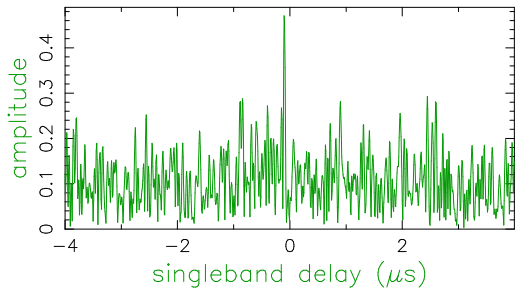
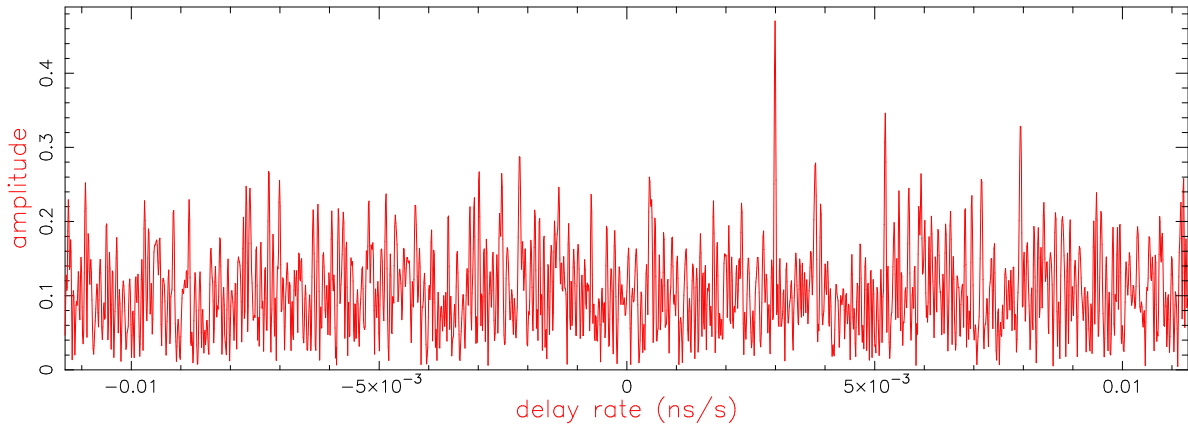
B: az 247.2 el 37.9 pa 37.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//BZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//BZ.W.92.0QR3WR

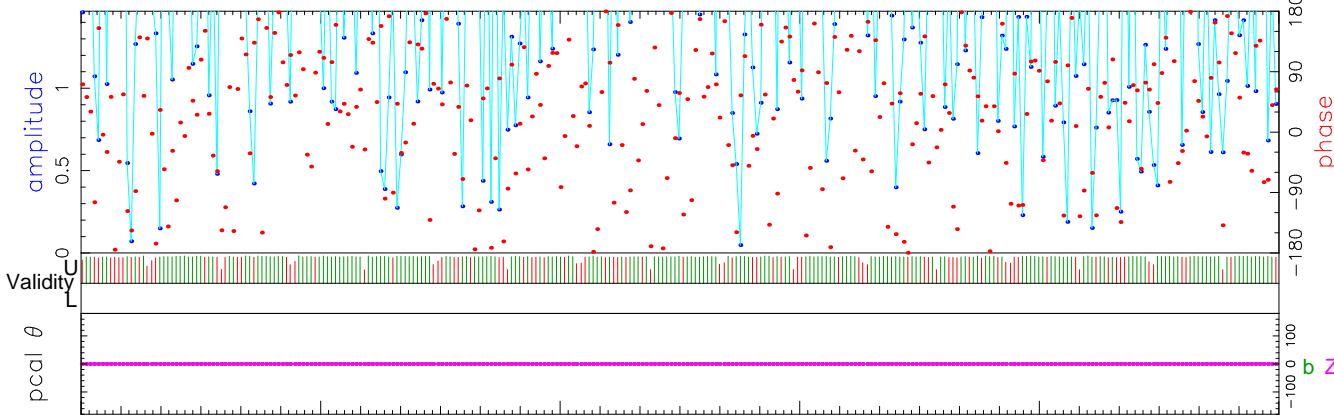
Fringe quality 0

SNR 5.4
Int time 280.771
Amp 0.489
Phase 189.1
PFD 1.0e+00
Delays (us)
SBD -0.099050
MBD 0.000006
Fringe rate (Hz)
0.256830
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
66.9
0.5
500.3
U/L 586/0
b 1000
Z 0
b:Z 0:0
b:Z 0:0
b 1000
Z 1000
b W06UR
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.39912653212E+03	Apriori delay (usec)	-1.39902748210E+03	Resid mbdelay (usec)	5.71361E-06	+/- 3.2E-03
Sband delay (usec)	-1.39912653210E+03	Apriori clock (usec)	1.5819423E+01	Resid sbdelay (usec)	-9.90500E-02	+/- 3.2E-03
Phase delay (usec)	-1.39902747995E+03	Apriori clockrate (us/s)	-1.6700001E-07	Resid phdelay (usec)	2.15719E-06	+/- 6.8E-07
Delay rate (us/s)	1.65412159797E+00	Apriori rate (us/s)	1.65411861643E+00	Resid rate (us/s)	2.98154E-06	+/- 3.9E-09
Total phase (deg)	78.1	Apriori accel (us/s/s)	3.62352796621E-06	Resid phase (deg)	189.1	+/- 21.0

ph/seg (deg)	89.4	Theor.	180.0	Amplitude	0.489 +/- 0.090	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	346.7	Search (2048X8)	0.461	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.310	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.1	Inc. frq. avg.	0.476	Inc. frq. avg.	0.476	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011 0.011	

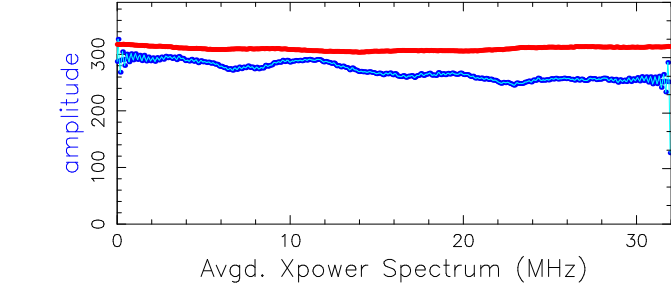
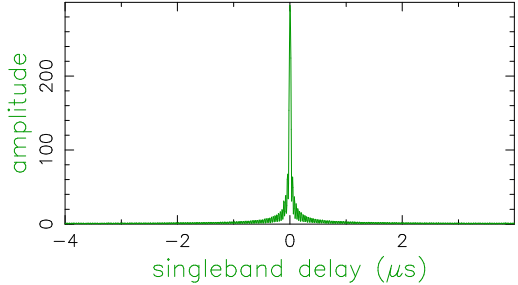
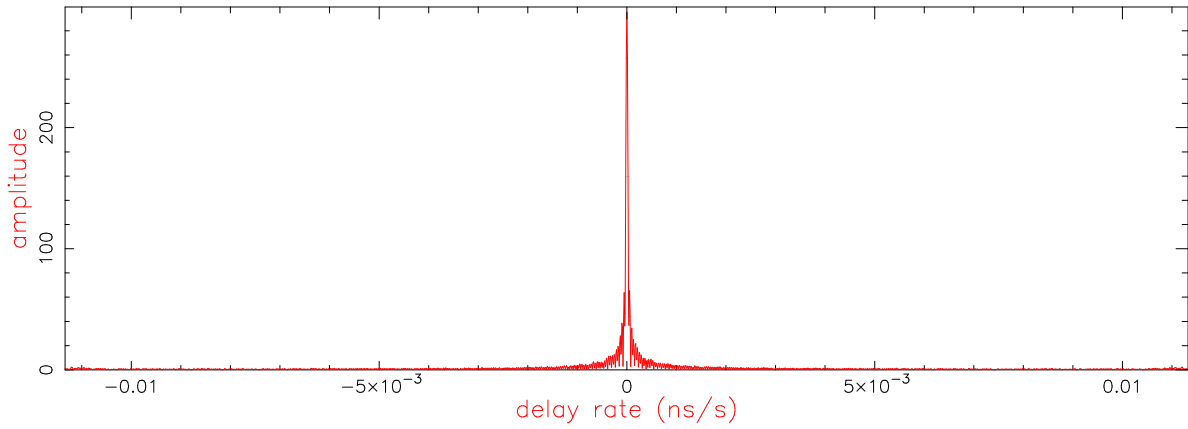
b: az 88.2 el 20.4 pa -44.0 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -9861.620 -920.276 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//bZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//bZ.W.98.0QR3WR

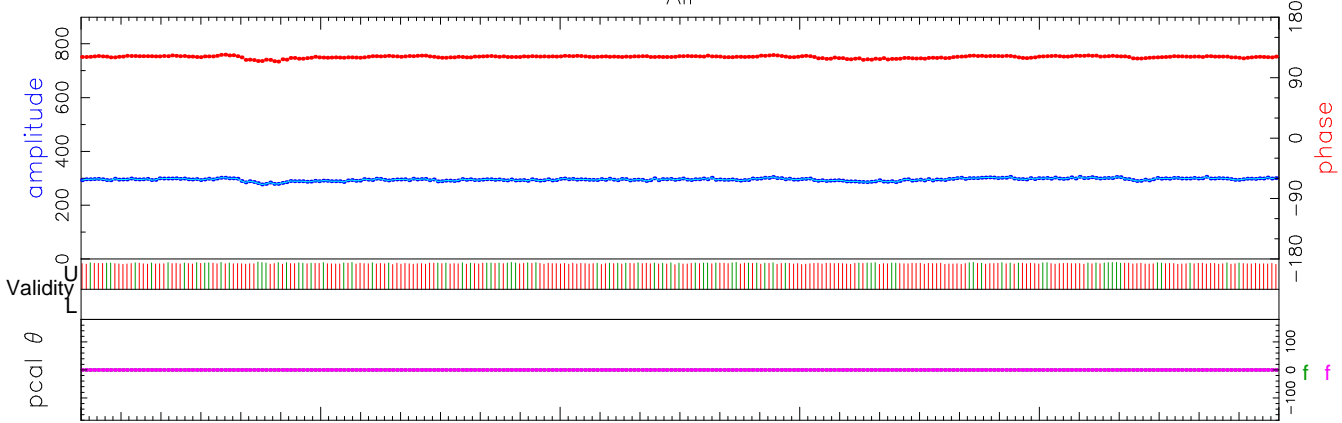
Fringe quality 9

SNR 3439.8
Int time 281.912
Amp 299.666
Phase 53.7
PFD 0.0e+00
Delays (us)
SBD 0.002907
MBD -0.000007
Fringe rate (Hz)
0.000014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
120.7 Phase
295.4 Ampl.
513.4 Sbd box
U/L 586/0 APs used
f 1000 PC freqs
f 1000 PC freqs
f:f 0:0 PC phase
f:f 0:0 Mani PC
f 1000 PC amp
f 1000
f W06UL Chan ids
f W06UR Chan ids

Group delay (usec)(sbd) 2.90483717693E-03 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -6.86066E-06 +/- 5.0E-06
Sband delay (usec) 2.9075000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 2.90750E-03 +/- 5.0E-06
Phase delay (usec) 3.89373269340E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 3.89373E-06 +/- 1.1E-09
Delay rate (us/s) 1.60842579646E-10 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 1.60843E-10 +/- 6.2E-12
Total phase (deg) 53.7 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 53.7 +/- 0.0

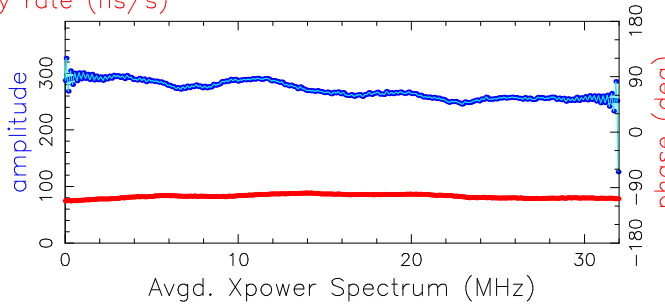
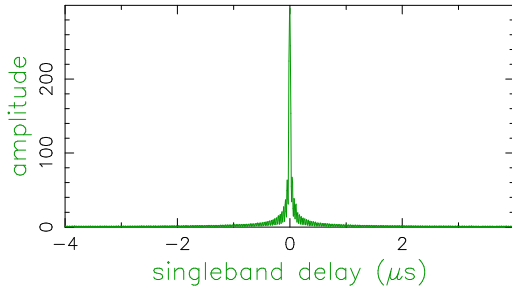
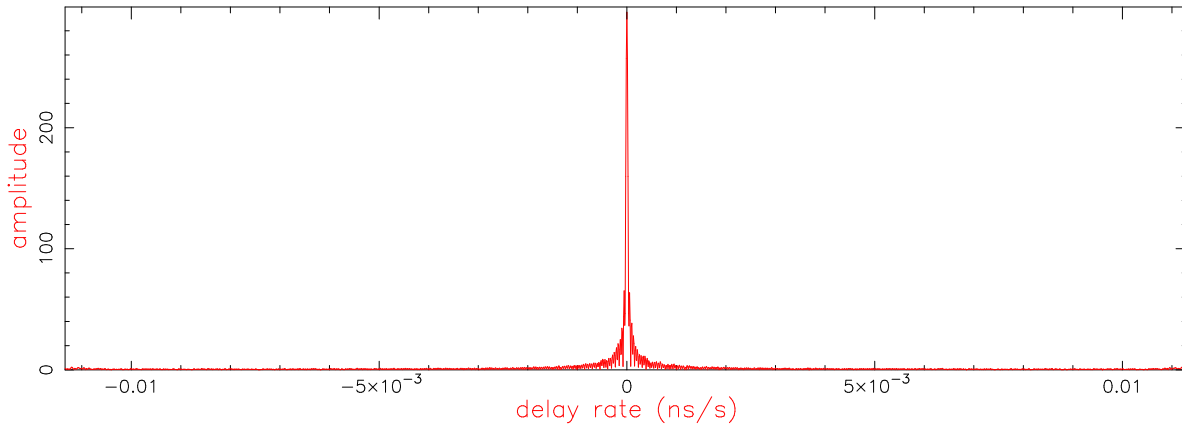
RMS Theor. Amplitude 299.666 +/- 0.087 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 1.7 0.3 Search (2048X8) 295.413 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 2.1 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 295.538 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 1.4 0.0 Inc. frq. avg. 295.421 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 89.4 el 32.4 pa -63.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ff..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ff.W.106.0QR3WR

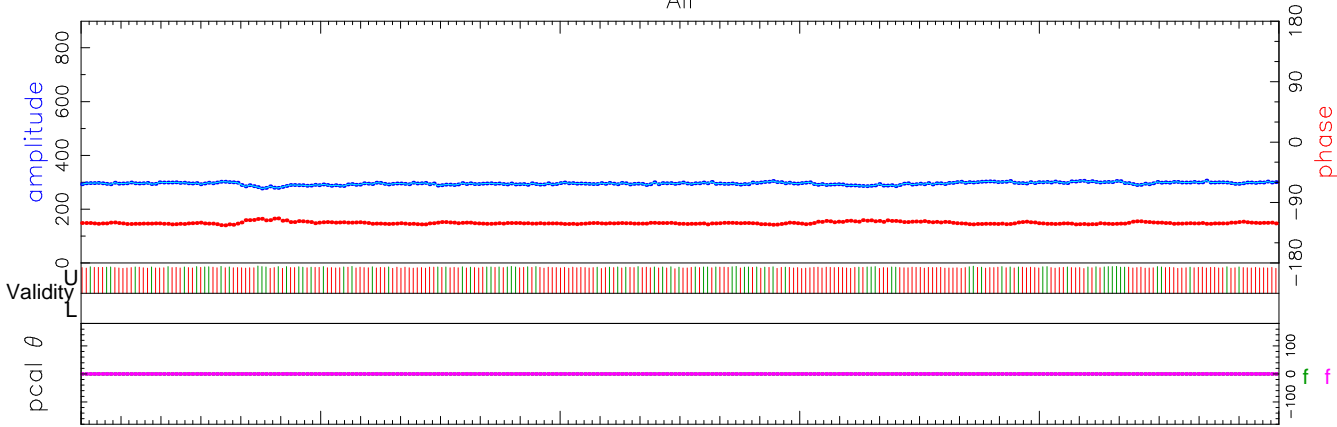
Fringe quality 9

SNR 3439.8
Int time 281.908
Amp 299.670
Phase -53.5
PFD 0.0e+00
Delays (us)
SBD -0.002907
MBD -0.000007
Fringe rate (Hz)
-0.000014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



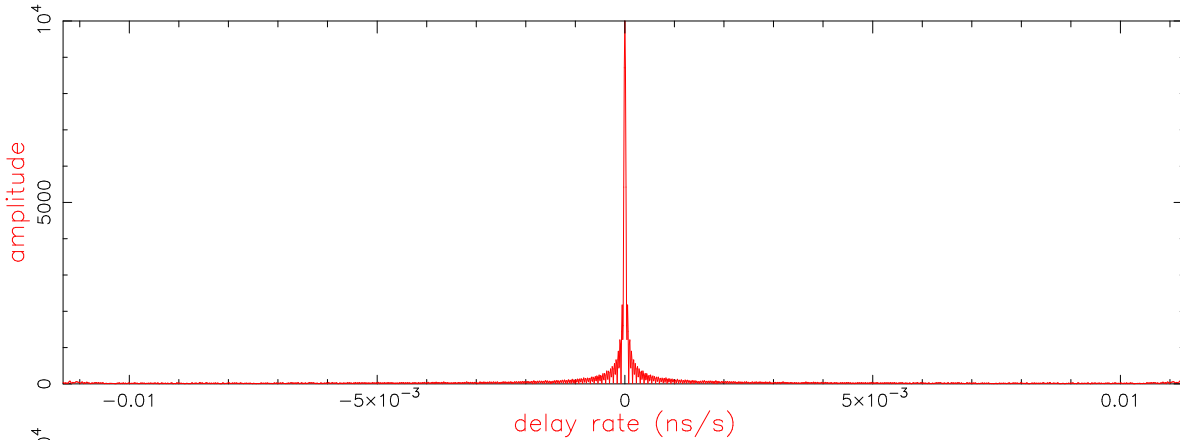
86204.00
-120.4
295.4
512.6
U/L 586/0
f 1000
f 1000
f:f 0:0
f:f 0:0
f 1000
f 1000
f W06UR
f W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

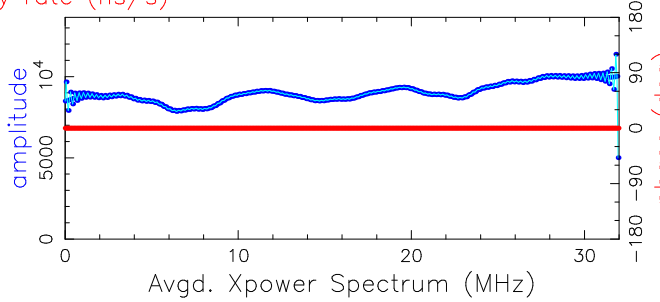
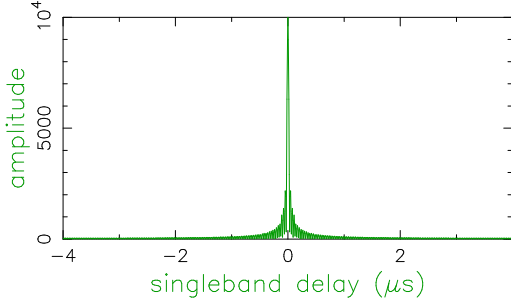
Group delay (usec)(sbd)	-2.90675096283E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.65352E-06	+/-	5.0E-06
Sband delay (usec)	-2.90750000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-2.90750E-03	+/-	5.0E-06
Phase delay (usec)	-3.88118179900E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.88118E-06	+/-	1.1E-09
Delay rate (us/s)	-1.60842579646E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-1.60843E-10	+/-	6.2E-12
Total phase (deg)	-53.5	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-53.5	+/-	0.0

ph/seg (deg)	1.7	0.3	Amplitude	299.670 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	2.1	0.5	Search (2048X8)	295.417	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.4	0.0	Inc. seg. avg.	295.543	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
			Inc. frq. avg.	295.426	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

f: az 89.4 el 32.4 pa -63.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ff..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ff.W.118.0QR3WR

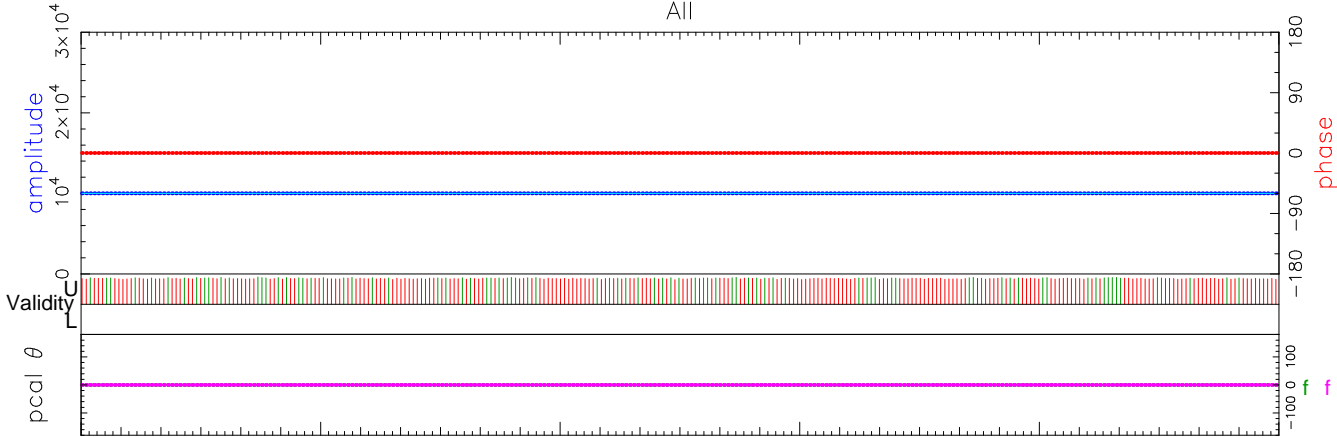


Fringe quality 9
SNR 114787.5
Int time 281.912
Amp 10000.001
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



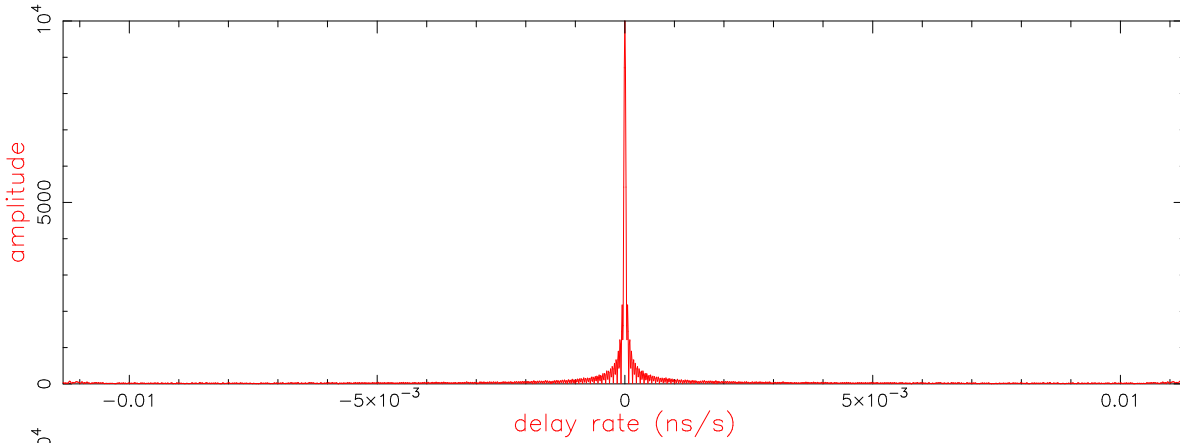
86204.00
0.2
10000.0
513.0
U/L 586/0
f 1000
f 1000
f:f 0:0
f:f 0:0
f 1000
f 1000
f W06UL
f W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.77936058652E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.82103E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.33483091394E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.33483E-09	+/-	3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.001 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	Search (2048X8)	10000.001	Search	10000.001	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	10000.002	Inc. frq. avg.	10000.002	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ff..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ff.W.80.0QR3WR



Fringe quality 9

SNR 114786.7

Int time 281.908

Amp 10000.006

Phase -0.1

PFD 0.0e+00

Delays (us)

SBD 0.000000

MBD -0.000006

Fringe rate (Hz)

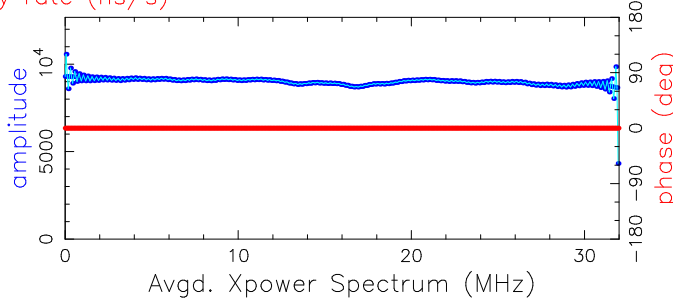
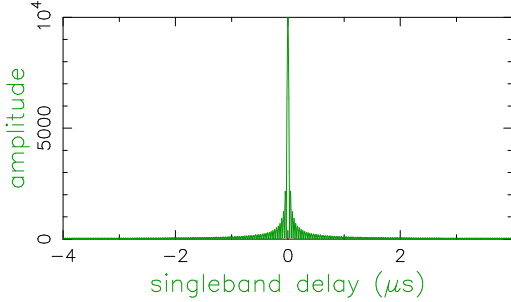
0.000000

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512



Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

2019:212:174200

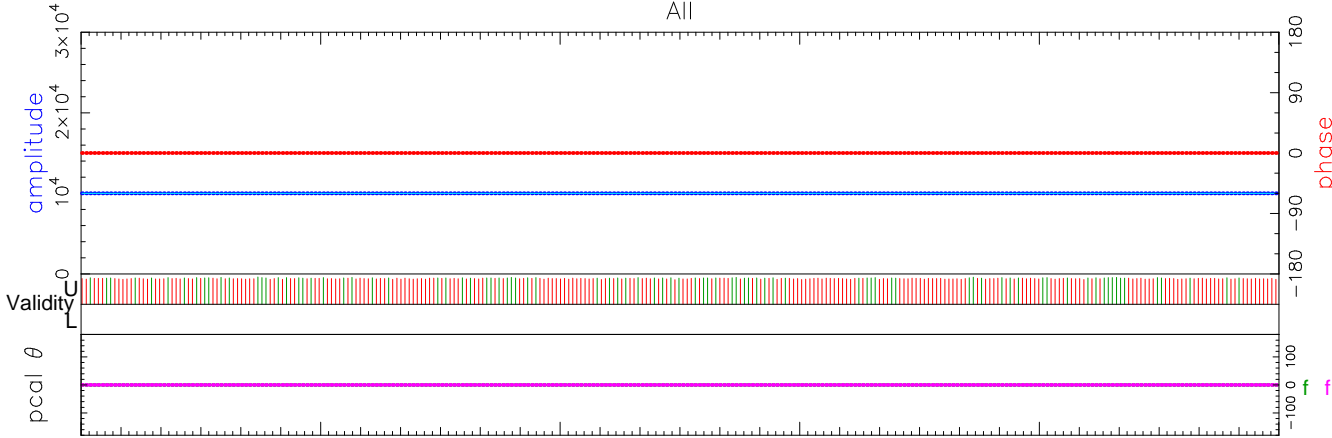
2018:249:082454

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00		Freq (MHz)
0.2		Phase
10000.0		Ampl.
513.0		Sbd box
U/L 586/0		APs used
f 1000		PC freqs
f 1000		PC freqs
f:f 0:0		PC phase
f:f 0:0		Manl PC
f 1000		PC amp
f 1000		
f W06UR		Chan ids
f W06UR		Chan ids

Group delay (usec)(sbd)	5.73291262586E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.86748E-06	+/- 1.5E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	5.44924740862E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.44925E-09	+/- 3.2E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.006 +/- 0.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0		0.0	Search (2048X8)	10000.006	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	10000.006	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

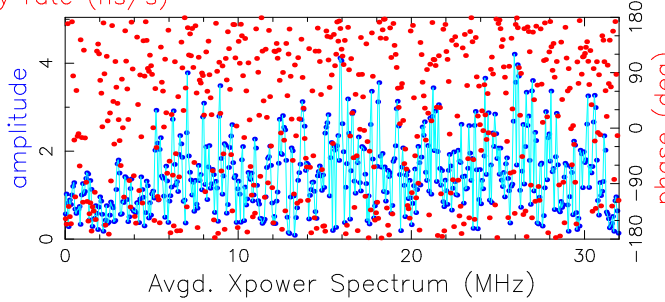
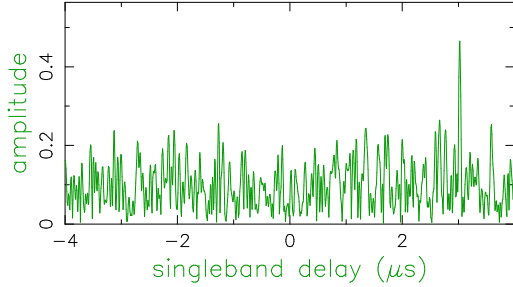
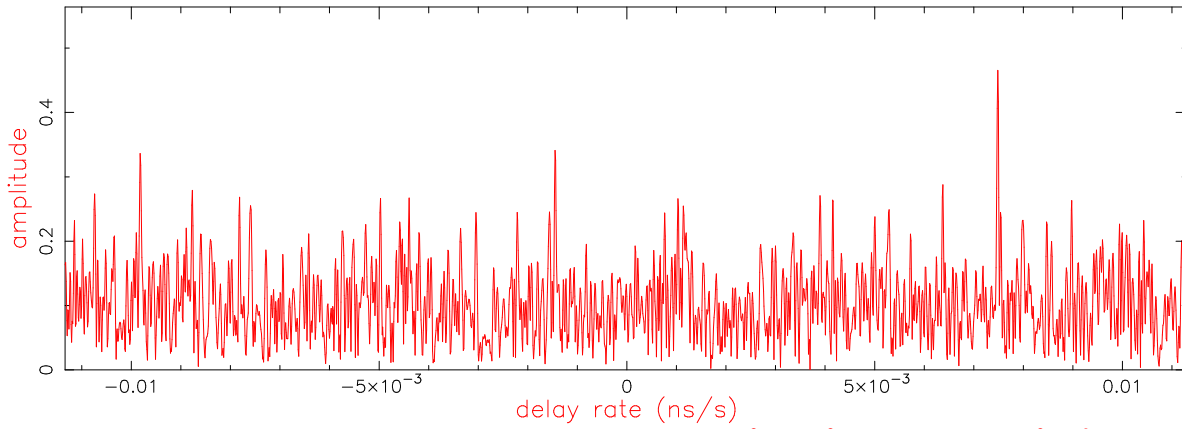
f: az 89.4 el 32.4 pa -63.6 f: az 89.4 el 32.4 pa -63.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ff..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ff.W.94.0QR3WR

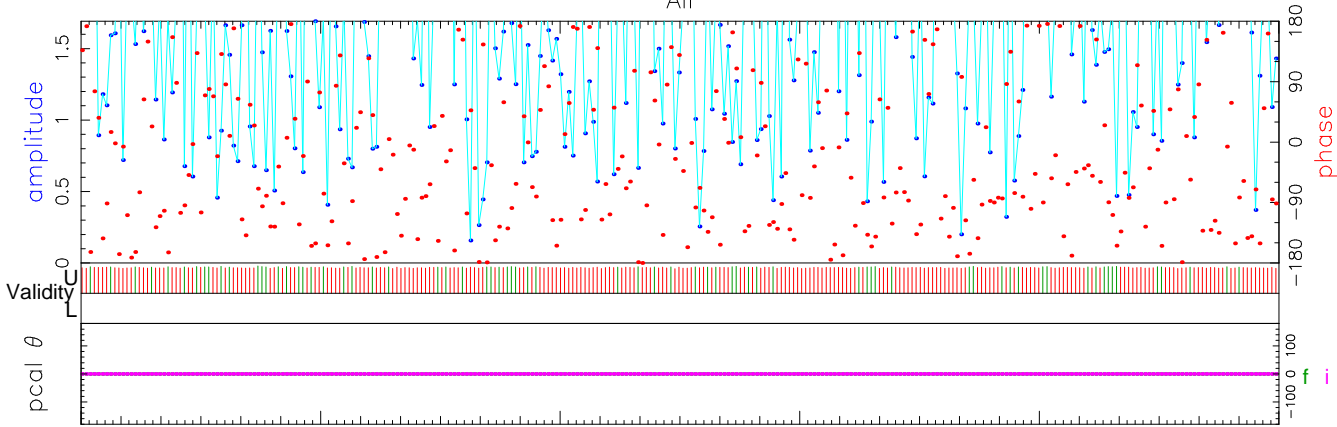
Fringe quality 0

SNR 5.4
Int time 281.128
Amp 0.564
Phase -229.8
PFD 1.0e+00
Delays (us)
SBD 3.021040
MBD 0.000005
Fringe rate (Hz)
0.643892
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



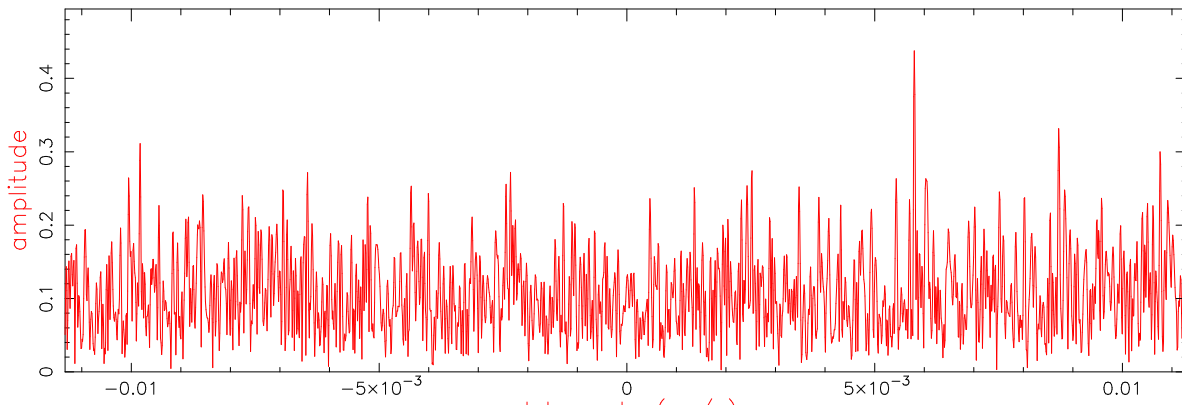
86204.00
-105.2
0.6
899.7
U/L 586/0
f 1000
i 0
f:i 0:0
f:i 0:0
f 1000
i 1000
f W06UL
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

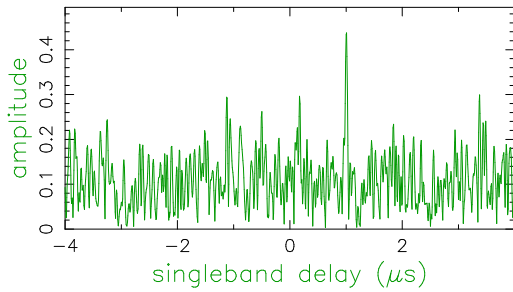
Group delay (usec)(sbd)	-4.47438753666E+03	Apriori delay (usec)	-4.47740857282E+03	Resid mbdelay (usec)	4.65454E-06	+/-	3.2E-03
Sband delay (usec)	-4.47438753232E+03	Apriori clock (usec)	1.5374871E+01	Resid sbdelay (usec)	3.02104E+00	+/-	3.2E-03
Phase delay (usec)	-4.47740857621E+03	Apriori clockrate (us/s)	2.5299999E-07	Resid phdelay (usec)	-3.39281E-06	+/-	6.9E-07
Delay rate (us/s)	1.88157661459E+00	Apriori rate (us/s)	1.88156913964E+00	Resid rate (us/s)	7.47495E-06	+/-	4.0E-09
Total phase (deg)	-36.4	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-229.8	+/-	21.3

ph/seg (deg)	91.1	Theor.	182.7	Amplitude	0.564 +/- 0.105	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	351.7	Search (2048X8)	0.462	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.361	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.551	Inc. frq. avg.	0.551	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

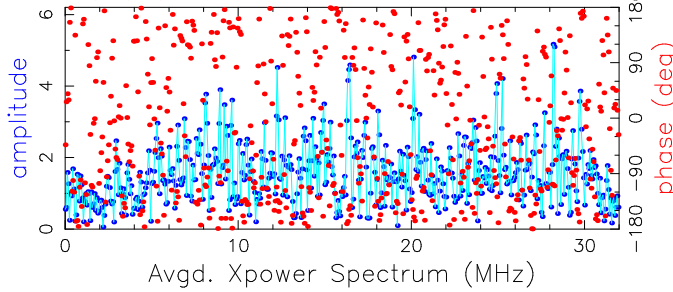
f: az 89.4 el 32.4 pa -63.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fi.W.110.0QR3WR



Fringe quality 0
SNR 5.1
Int time 281.119
Amp 0.495
Phase -224.4
PFD 1.0e+00
Delays (us)
SBD 1.004447
MBD 0.000007
Fringe rate (Hz)
0.499396
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



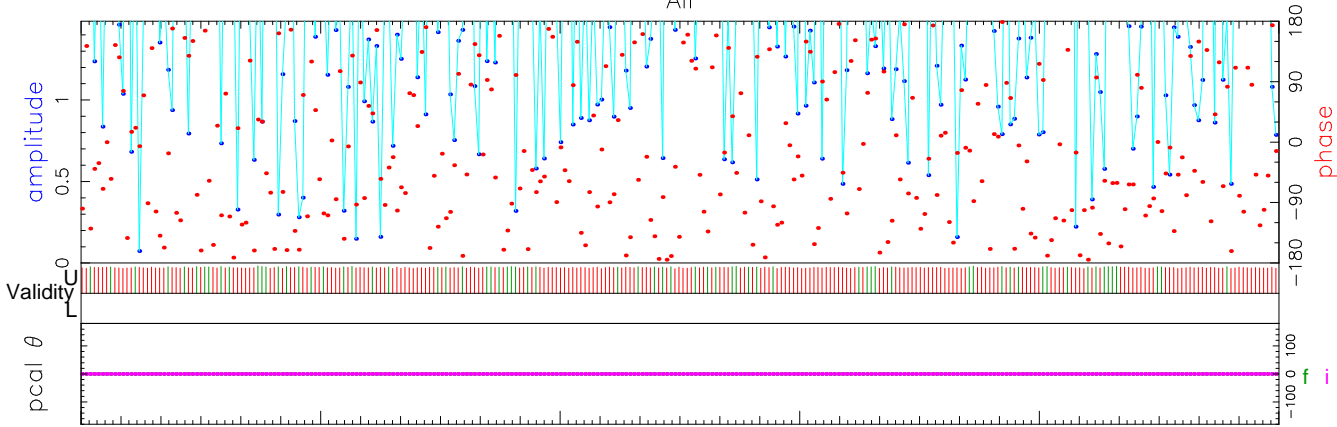
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-122.1
0.5
641.6
U/L 586/0
f 1000
i 0
f:i 0:0
f:i 0:0
f 1000
i 1000
f W06UR
i W06UL

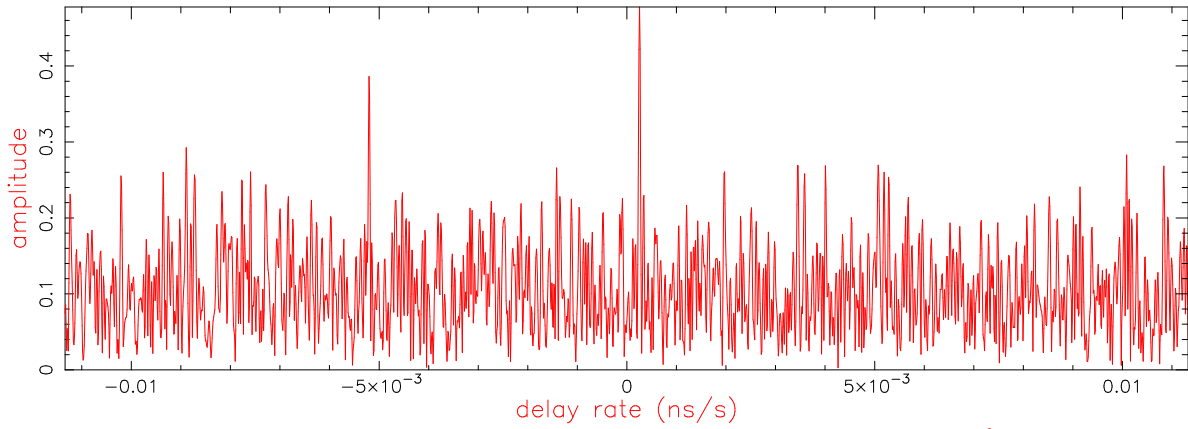
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.47640412322E+03	Apriori delay (usec)	-4.47740857282E+03	Resid mbdelay (usec)	6.65296E-06	+/-	3.4E-03
Sband delay (usec)	-4.47640412632E+03	Apriori clock (usec)	1.5374871E+01	Resid sbdelay (usec)	1.00445E+00	+/-	3.4E-03
Phase delay (usec)	-4.47740857676E+03	Apriori clockrate (us/s)	2.5299999E-07	Resid phdelay (usec)	-3.93648E-06	+/-	7.3E-07
Delay rate (us/s)	1.88157493714E+00	Apriori rate (us/s)	1.88156913964E+00	Resid rate (us/s)	5.79750E-06	+/-	4.2E-09
Total phase (deg)	-31.0	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-224.4	+/-	22.6

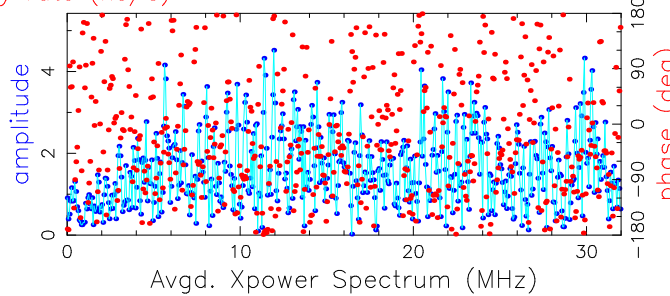
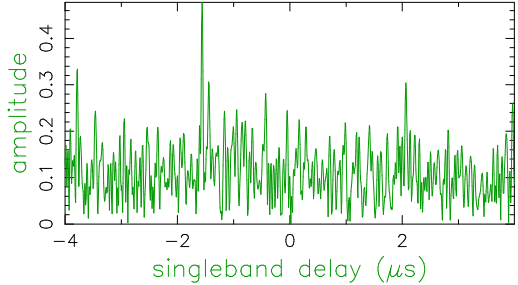
ph/seg (deg)	RMS 90.6	Theor. 193.1	Amplitude 0.495 +/- 0.097	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	386.8	337.0	Search (2048X8) 0.427	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000		
ph/frq (deg)	0.0	11.3	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	1.3	19.7	Inc. seg. avg. 0.309	Sample rate(MSamp/s): 64	nlags: 512	t_cohere infinite	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.479	Data rate(Mb/s): 128		ion window (TEC) 0.00 0.00	

f: az 89.4 el 32.4 pa -63.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fi.W.123.0QR3WR



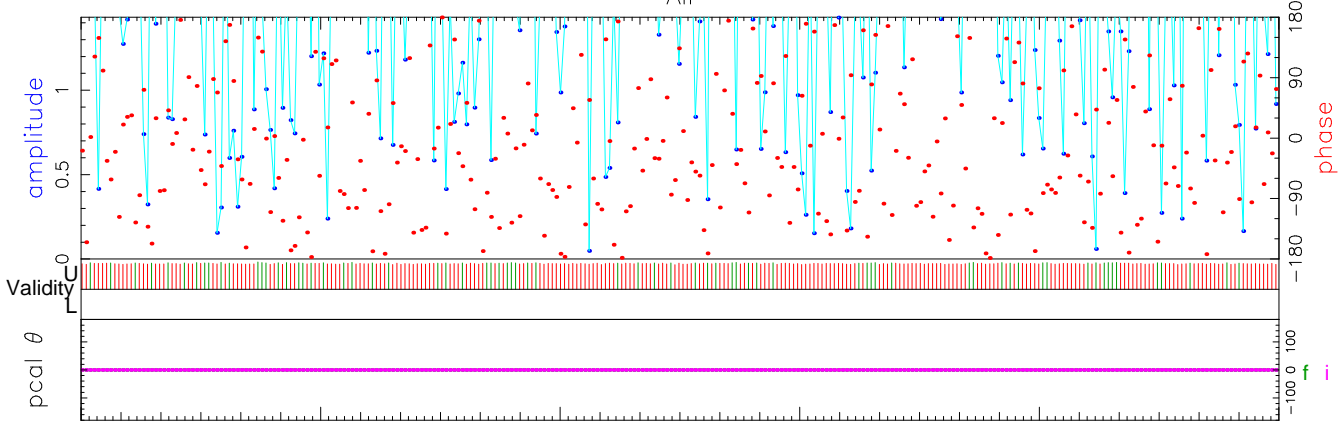
Fringe quality 0
SNR 5.5
Int time 281.128
Amp 0.478
Phase 283.5
PFD 9.9e-01
Delays (us)
SBD -1.561911
MBD 0.000005
Fringe rate (Hz)
0.021956
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



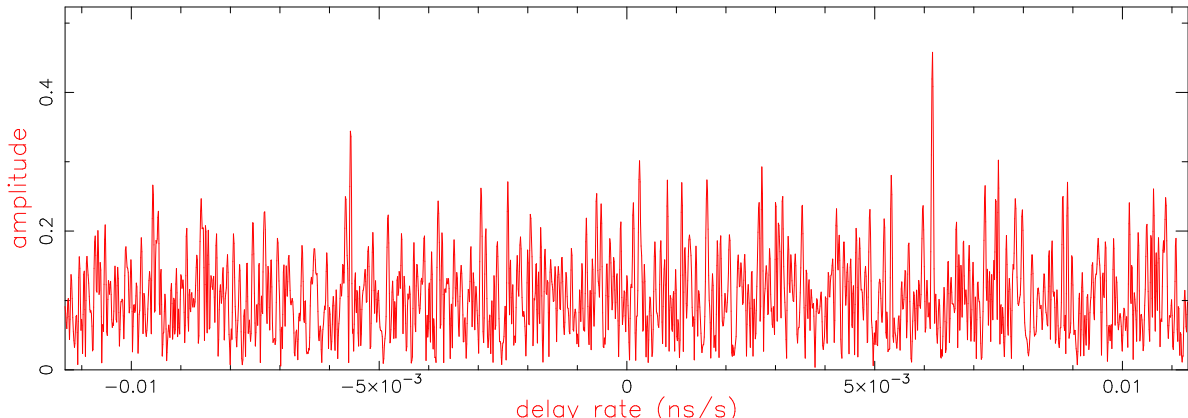
86204.00
-62.9
0.5
313.1
U/L 586/0
f 1000
i 0
f:i 0:0
f:i 0:0
f 1000
i 1000
f W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

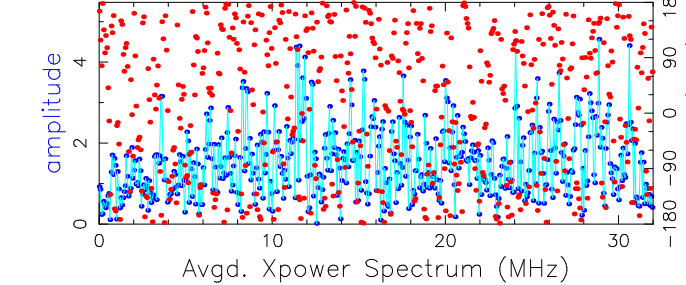
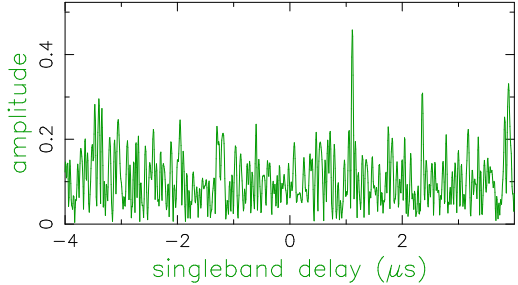
Group delay (usec)(sbd)	-4.47897047909E+03	Apriori delay (usec)	-4.47740857282E+03	Resid mbdelay (usec)	5.00682E-06	+/-	3.1E-03
Sband delay (usec)	-4.47897048332E+03	Apriori clock (usec)	1.5374871E+01	Resid sbdelay (usec)	-1.56191E+00	+/-	3.1E-03
Phase delay (usec)	-4.47740857485E+03	Apriori clockrate (us/s)	2.5299999E-07	Resid phdelay (usec)	-2.02987E-06	+/-	6.7E-07
Delay rate (us/s)	1.88156939452E+00	Apriori rate (us/s)	1.88156913964E+00	Resid rate (us/s)	2.54882E-07	+/-	3.9E-09
Total phase (deg)	116.9	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	283.5	+/-	20.9

ph/seg (deg)	92.5	Theor.	179.1	Amplitude	0.478 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	347.2	Search (2048X8)	0.476	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.311	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.470	Inc. frq. avg.	0.470	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fi.W.79.0QR3WR

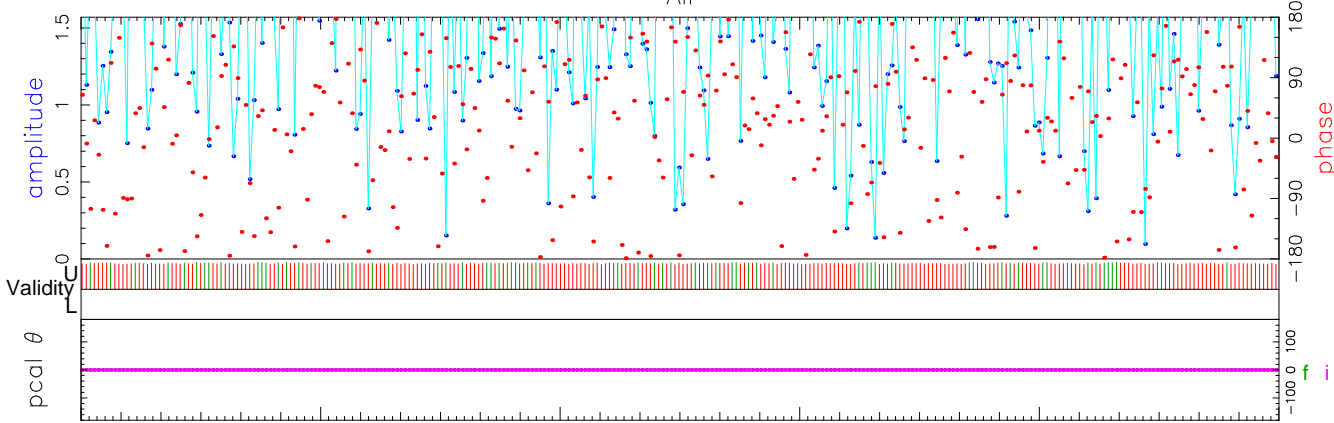


Fringe quality 0
SNR 5.3
Int time 281.119
Amp 0.523
Phase -346.2
PFD 1.0e+00
Delays (us)
SBD 1.111844
MBD 0.000005
Fringe rate (Hz) 0.530884
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
70.6 Phase
0.5 Ampl.
655.3 Sbd box
U/L 586/0 APs used
f 1000 PC freqs
i 0 PC freqs
f:i 0:0 PC phase
f:i 0:0 Manl PC
f 1000 PC amp
i 1000
f W06UR Chan ids
i W06UR Chan ids

Group delay (usec)(sbd)	-4.47629672891E+03	Apriori delay (usec)	-4.47740857282E+03	Resid mbdelay (usec)	4.54995E-06	+/-	3.3E-03
Sband delay (usec)	-4.47629672882E+03	Apriori clock (usec)	1.5374871E+01	Resid sbdelay (usec)	1.11184E+00	+/-	3.3E-03
Phase delay (usec)	-4.47740857055E+03	Apriori clockrate (us/s)	2.5299999E-07	Resid phdelay (usec)	2.27546E-06	+/-	7.0E-07
Delay rate (us/s)	1.88157530268E+00	Apriori rate (us/s)	1.88156913964E+00	Resid rate (us/s)	6.16304E-06	+/-	4.0E-09
Total phase (deg)	-152.8	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-346.2	+/-	21.6

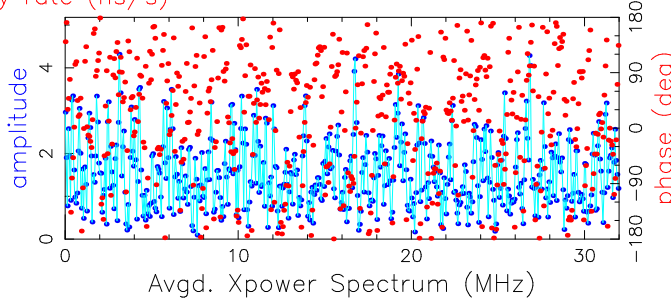
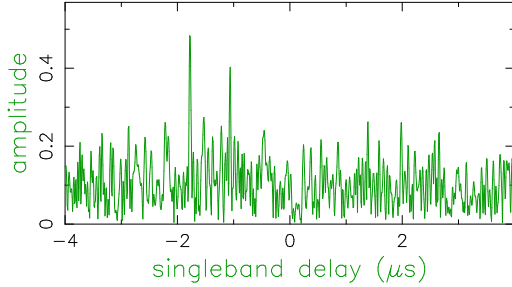
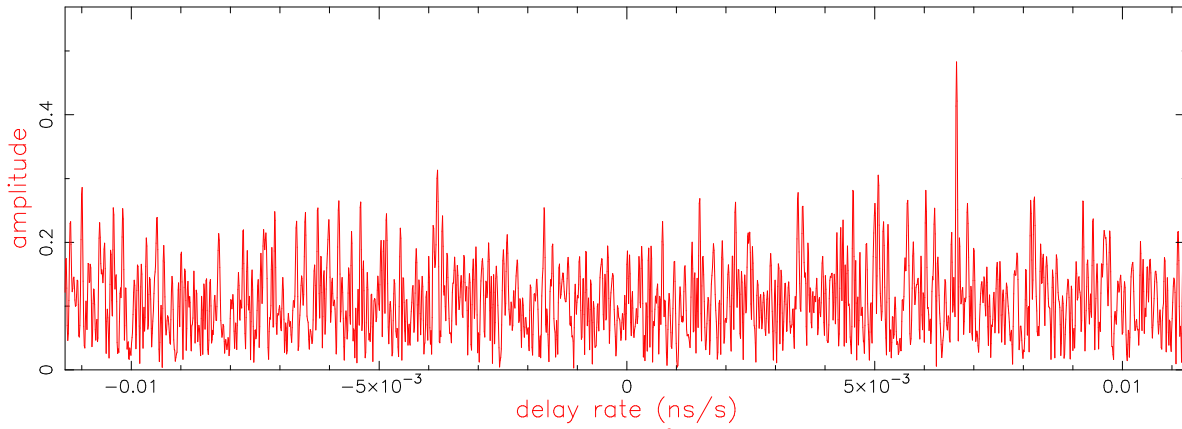
ph/seg (deg)	91.4	Theor.	185.2	Amplitude	0.523 +/- 0.099	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	379.3	Search (2048X8)	0.447	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000				
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000		
amp/frq (%)	0.9	Inc. seg. avg.	0.344	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011				
		Inc. frq. avg.	0.510	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00	0.00

f: az 89.4 el 32.4 pa -63.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fi.W.91.0QR3WR

Fringe quality 0

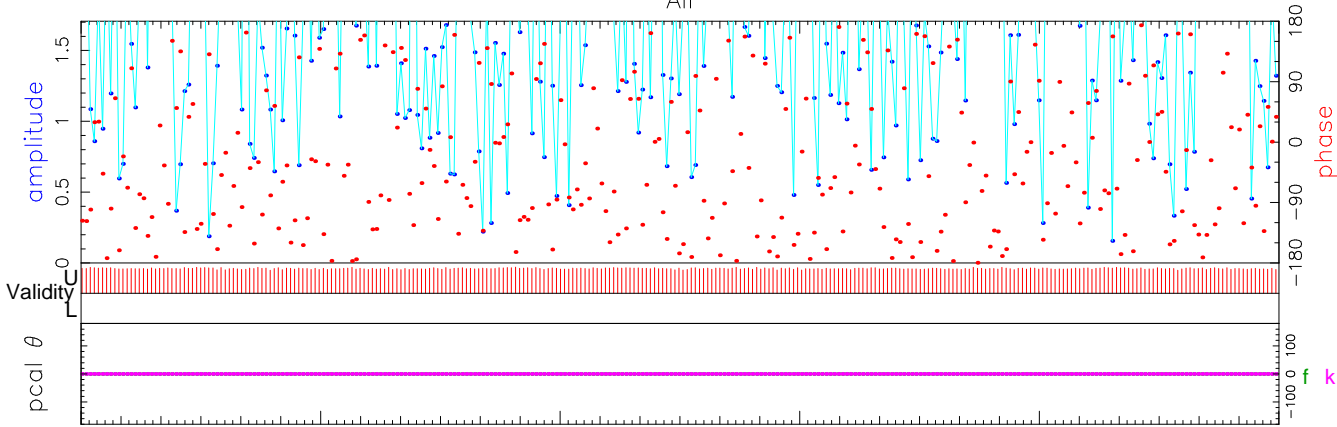
SNR 5.5
Int time 270.136
Amp 0.569
Phase 175.9
PFD 9.8e-01
Delays (us)
SBD -1.777678
MBD 0.000005
Fringe rate (Hz)
0.573140
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-101.8
0.6
285.5
U/L 586/0
f 1000
k 1000
f:k 0:0
f:k 0:0
f 1000
k 1000
f W06UL
k W06UR

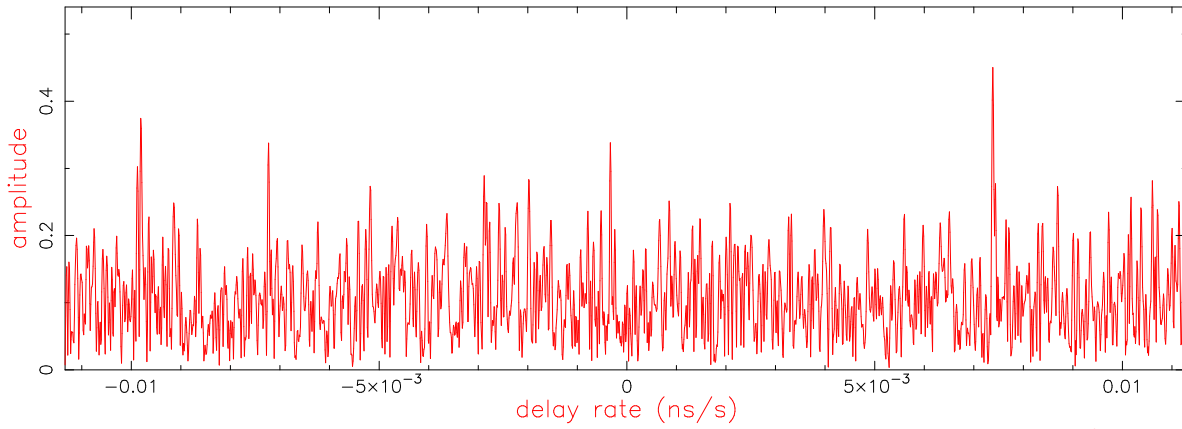
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.08679959129E+03	Apriori delay (usec)	2.08857726495E+03	Resid mbdelay (usec)	4.86799E-06	+/-	3.1E-03
Sband delay (usec)	2.08679958695E+03	Apriori clock (usec)	-8.7217007E+00	Resid sbdelay (usec)	-1.77768E+00	+/-	3.1E-03
Phase delay (usec)	2.08857726167E+03	Apriori clockrate (us/s)	8.6659995E-08	Resid phdelay (usec)	-3.28236E-06	+/-	6.7E-07
Delay rate (us/s)	-5.71933335148E-02	Apriori rate (us/s)	-5.71999870976E-02	Resid rate (us/s)	6.65358E-06	+/-	3.9E-09
Total phase (deg)	32.9	Apriori accel (us/s/s)	-1.17742361062E-05	Resid phase (deg)	175.9	+/-	20.7

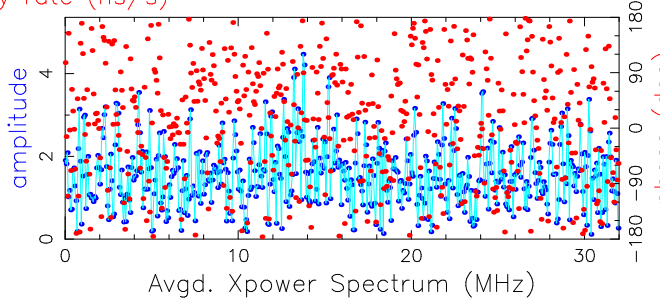
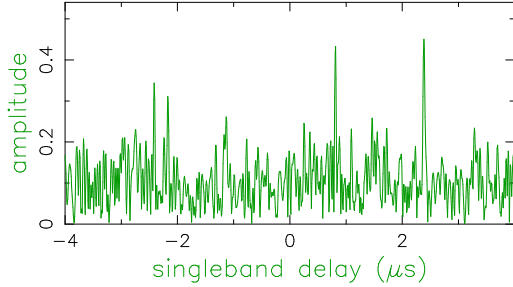
ph/seg (deg)	RMS 90.7	Theor. 177.5	Amplitude 0.569 +/- 0.103	Search (2048X8) 0.481	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us) -4.000 4.000
amp/seg (%)	354.6	309.7	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us) -0.000 0.000
ph/frq (deg)	0.0	10.4	Inc. seg. avg. 0.383	0.550	Bits/sample: 2x2	ion window (ns/s) -0.011 0.011	dr window (ns/s) -0.011 0.011
amp/frq (%)	1.8	18.1	Inc. frq. avg. 0.550	0.550	Sample rate(MSamp/s): 64	nlags: 512	t_cohere infinite

f: az 89.4 el 32.4 pa -63.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 326.216 -438.775 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fk.W.107.0QR3WR

Fringe quality 0

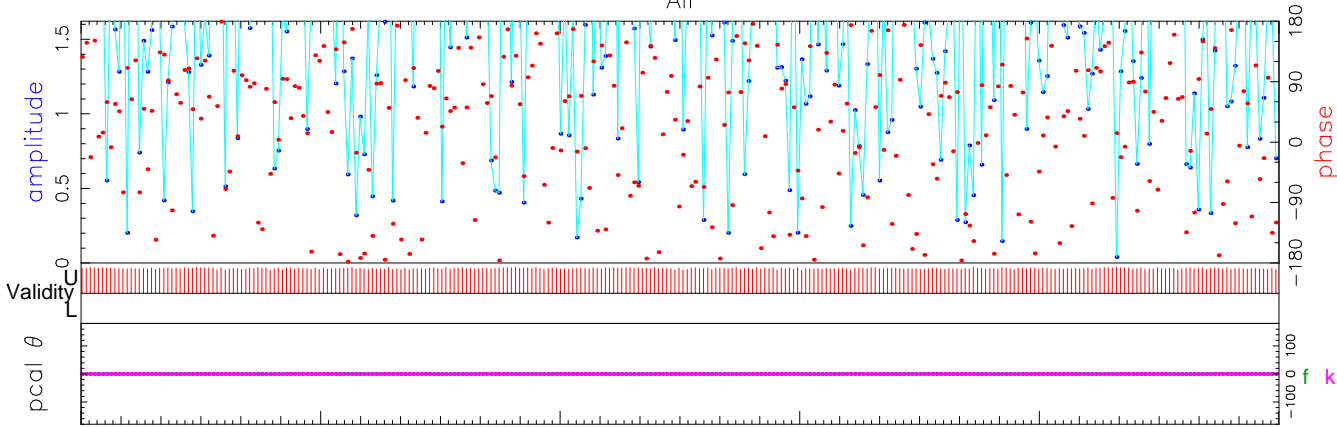


SNR 5.1
Int time 270.118
Amp 0.540
Phase -114.7
PFD 1.0e+00
Delays (us)
SBD 2.383990
MBD 0.000006
Fringe rate (Hz)
0.635290
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
92.3
0.5
818.2
U/L 586/0
f 1000
k 1000
f:k 0:0
f:k 0:0
f 1000
k 1000
f W06UR
k W06UL

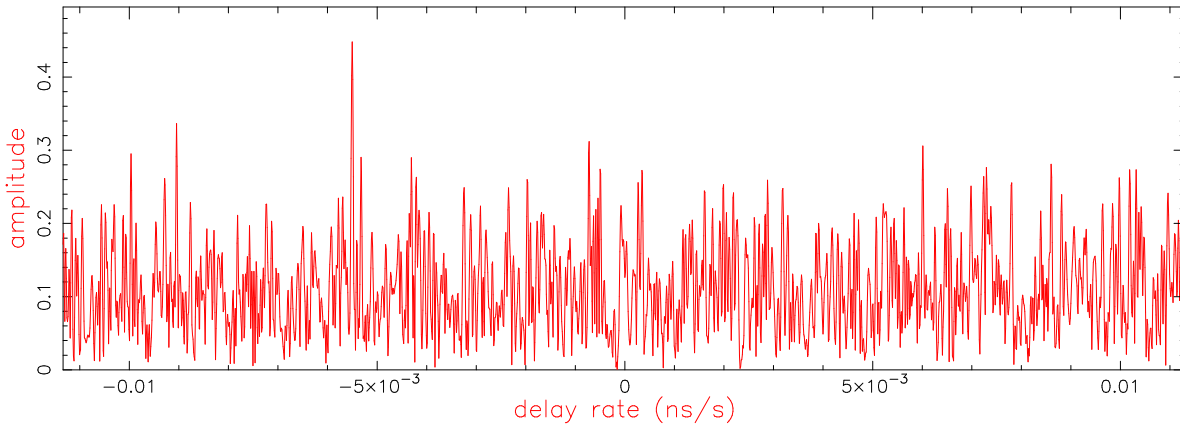
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.09096125511E+03	Apriori delay (usec)	2.08857726495E+03	Resid mbdelay (usec)	5.66489E-06	+/-	3.4E-03
Sband delay (usec)	2.09096125495E+03	Apriori clock (usec)	-8.7217007E+00	Resid sbdelay (usec)	2.38399E+00	+/-	3.4E-03
Phase delay (usec)	2.08857726793E+03	Apriori clockrate (us/s)	8.6659995E-08	Resid phdelay (usec)	2.97785E-06	+/-	7.3E-07
Delay rate (us/s)	-5.71926120097E-02	Apriori rate (us/s)	-5.71999870976E-02	Resid rate (us/s)	7.37509E-06	+/-	4.2E-09
Total phase (deg)	-257.7	Apriori accel (us/s/s)	-1.17742361062E-05	Resid phase (deg)	-114.7	+/-	22.6

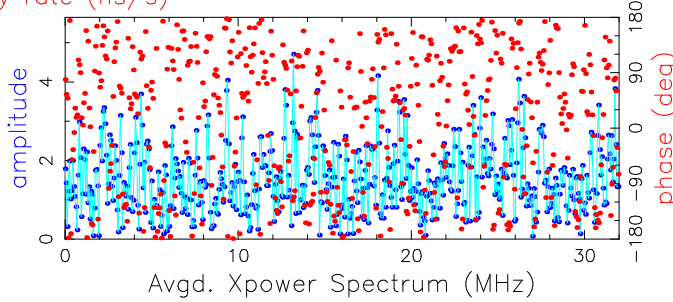
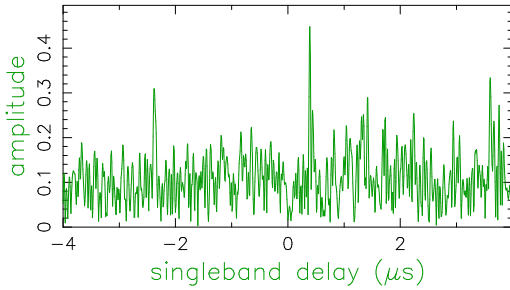
ph/seg (deg)	RMS 90.4	Theor. 193.5	Amplitude 0.540 +/- 0.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	367.5	337.6	Search (2048X8) 0.450	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	11.3	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.2	19.7	Inc. seg. avg. 0.326	Sample rate(MSamp/s): 64	ion window (TEC)	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.529	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

f: az 89.4 el 32.4 pa -63.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 326.216 -438.775 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fk.W.121.0QR3WR

Fringe quality 0

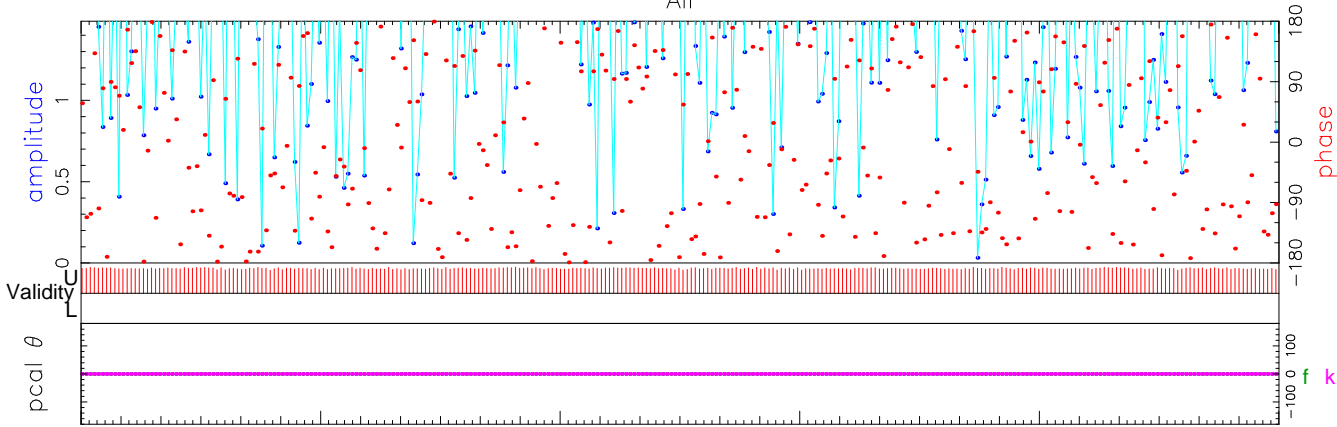


SNR 5.0
 Int time 270.134
 Amp 0.496
 Phase -132.6
 PFD 1.0e+00
 Delays (us)
 SBD 0.389484
 MBD -0.000006
 Fringe rate (Hz)
 -0.473706
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174159
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
 -158.6
 0.5
 562.9
 U/L 586/0
 f 1000
 k 1000
 f:k 0:0
 f:k 0:0
 f 1000
 k 1000
 f W06UL
 k W06UL

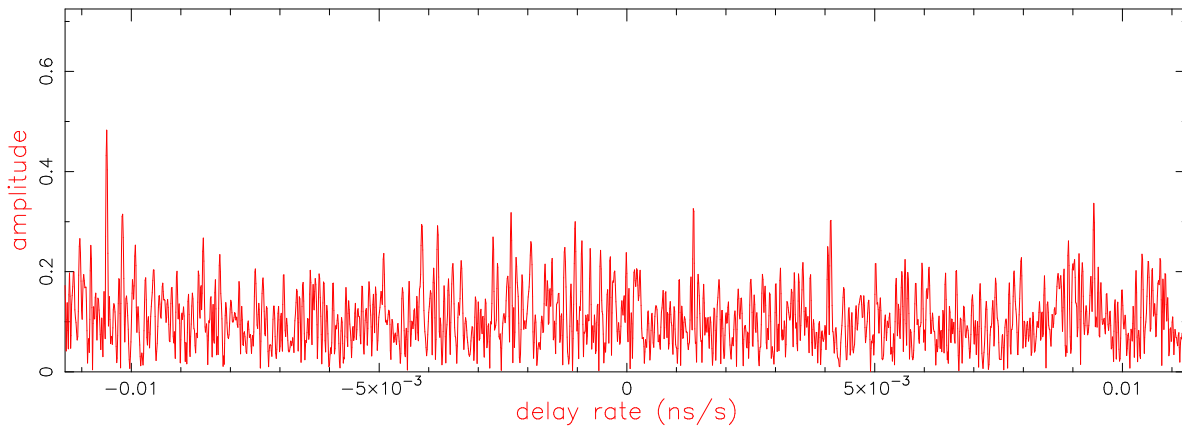
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	2.08896675391E+03	Apriori delay (usec)	2.08857726495E+03	Resid mbdelay (usec)	-5.72920E-06	+/-	3.4E-03
Sband delay (usec)	2.08896674945E+03	Apriori clock (usec)	-8.7217007E+00	Resid sbdelay (usec)	3.89484E-01	+/-	3.4E-03
Phase delay (usec)	2.08857725983E+03	Apriori clockrate (us/s)	8.6659995E-08	Resid phdelay (usec)	-5.11470E-06	+/-	7.3E-07
Delay rate (us/s)	-5.72054863599E-02	Apriori rate (us/s)	-5.71999870976E-02	Resid rate (us/s)	-5.49926E-06	+/-	4.2E-09
Total phase (deg)	-275.6	Apriori accel (us/s/s)	-1.17742361062E-05	Resid phase (deg)	-132.6	+/-	22.7

ph/seg (deg)	RMS 90.7	Theor. 194.3	Amplitude 0.496 +/- 0.098	Search (2048X8) 0.440	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	390.8	339.2	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.4	Inc. seg. avg. 0.309	0.485	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.2	19.8	Inc. frq. avg. 0.485		Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 89.4 el 32.4 pa -63.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 326.216 -438.775 simultaneous interpolator

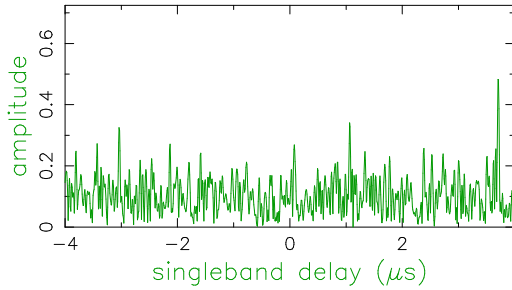
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fk.W.84.0QR3WR



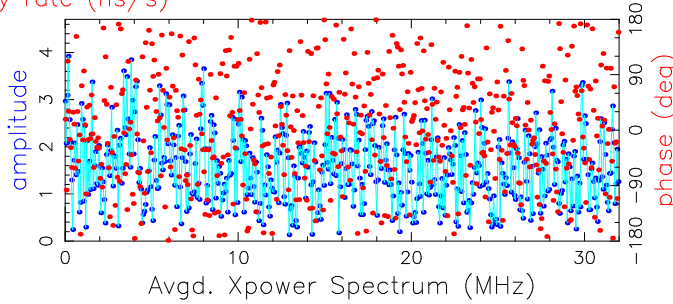
Fringe quality 0

SNR 5.6
Int time 270.120
Amp 0.725
Phase -335.8
PFD 9.6e-01
Delays (us)
SBD 3.706921
MBD -0.000005
Fringe rate (Hz)
-0.903617
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

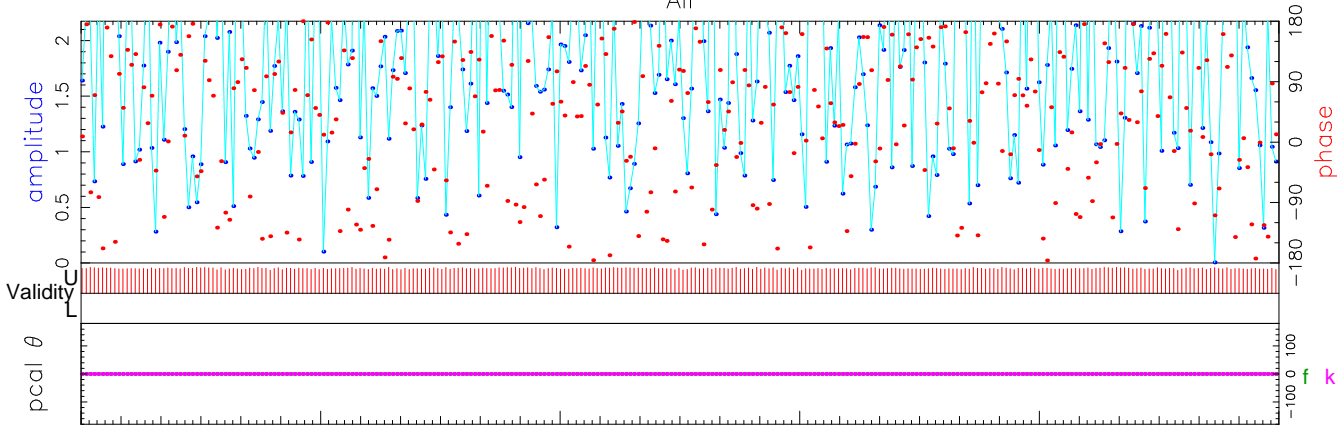


delay rate (ns/s)



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



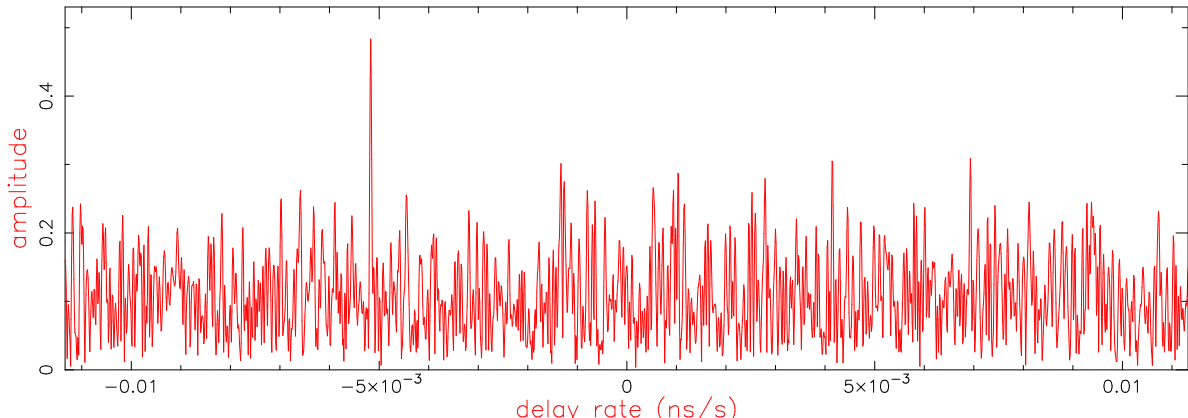
86204.00
111.8
0.7
987.5
U/L 586/0
f 1000
k 1000
f:k 0:0
f:k 0:0
f 1000
k 1000
f W06UR
k W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

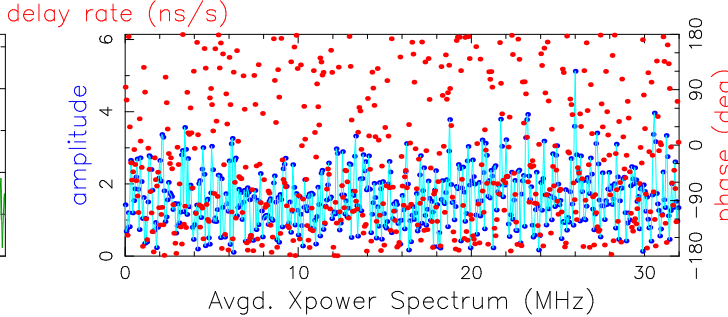
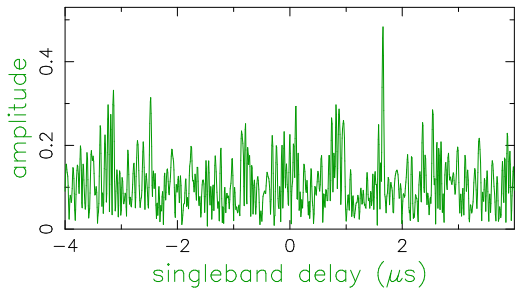
Group delay (usec)(sbd)	2.09228418777E+03	Apriori delay (usec)	2.08857726495E+03	Resid mbdelay (usec)	-4.92877E-06	+/-	3.1E-03
Sband delay (usec)	2.09228418595E+03	Apriori clock (usec)	-8.7217007E+00	Resid sbdelay (usec)	3.70692E+00	+/-	3.1E-03
Phase delay (usec)	2.08857726855E+03	Apriori clockrate (us/s)	8.6659995E-08	Resid phdelay (usec)	3.60533E-06	+/-	6.6E-07
Delay rate (us/s)	-5.72104771961E-02	Apriori rate (us/s)	-5.71999870976E-02	Resid rate (us/s)	-1.04901E-05	+/-	3.8E-09
Total phase (deg)	-118.9	Apriori accel (us/s/s)	-1.17742361062E-05	Resid phase (deg)	-335.8	+/-	20.6

ph/seg (deg)	92.0	Theor.	176.2	Amplitude	0.725 +/- 0.130	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	348.1	Search (2048X8)	0.472	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.486	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	2.5	Inc. frq. avg.	0.695	Inc. frq. avg.	0.695	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

f: az 89.4 el 32.4 pa -63.6 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 326.216 -438.775 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/fk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/fk.W.96.0QR3WR

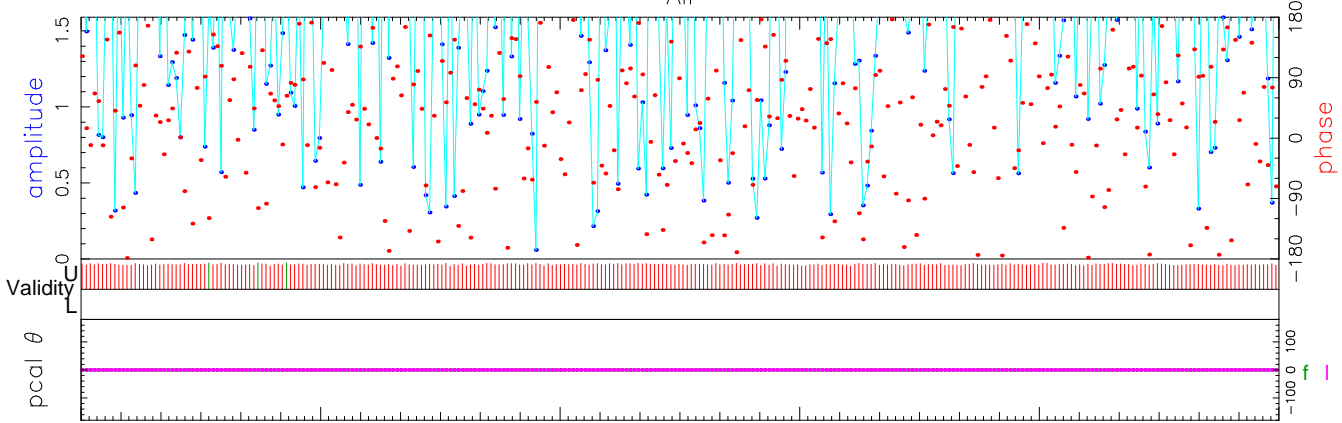


Fringe quality 0
SNR 5.5
Int time 270.389
Amp 0.530
Phase -262.1
PFD 1.0e+00
Delays (us)
SBD 1.654420
MBD -0.000005
Fringe rate (Hz)
-0.444576
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



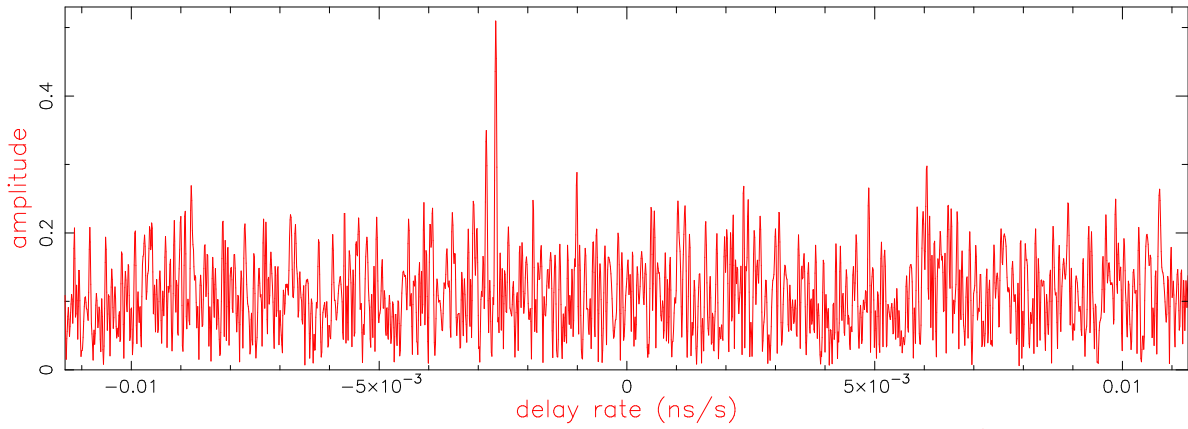
86204.00
55.8
0.5
724.8
U/L 586/0
f 1000
l 1000
f:l 0:0
f:l 0:0
f 1000
l 1000
f W06UR
l W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

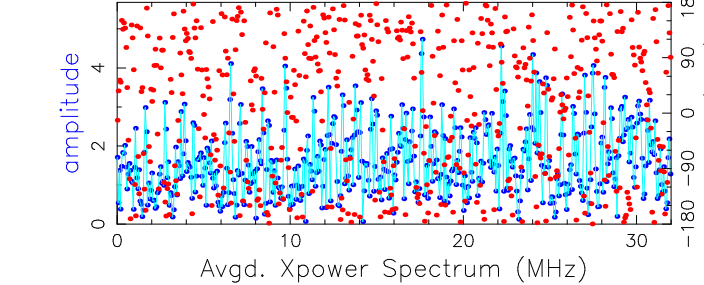
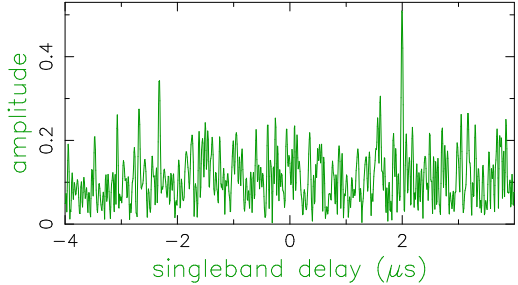
Group delay (usec)(sbd)	6.33969779487E+02	Apriori delay (usec)	6.32315360132E+02	Resid mbdelay (usec)	-5.03346E-06	+/- 3.2E-03
Sband delay (usec)	6.33969780132E+02	Apriori clock (usec)	1.6214590E+00	Resid sbdelay (usec)	1.65442E+00	+/- 3.2E-03
Phase delay (usec)	6.32315361932E+02	Apriori clockrate (us/s)	1.3300000E-07	Resid phdelay (usec)	1.80030E-06	+/- 6.8E-07
Delay rate (us/s)	4.06359272779E-02	Apriori rate (us/s)	4.06410883698E-02	Resid rate (us/s)	-5.16109E-06	+/- 3.9E-09
Total phase (deg)	-218.3	Apriori accel (us/s/s)	-5.72154534897E-06	Resid phase (deg)	-262.1	+/- 21.0

ph/seg (deg)	87.9	Theor.	179.5	Amplitude	0.530 +/- 0.097	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	357.4	Search (2048X8)	0.479	Search (2048X8)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.352	Inc. seg. avg.	0.352	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.6	Inc. frq. avg.	0.518	Inc. frq. avg.	0.518	Sample rate(MSamp/s): 64	mb window (us) -0.000 0.000

f: az 89.4 el 32.4 pa -63.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -249.959 -767.894 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fl..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fl.W.100.0QR3WR

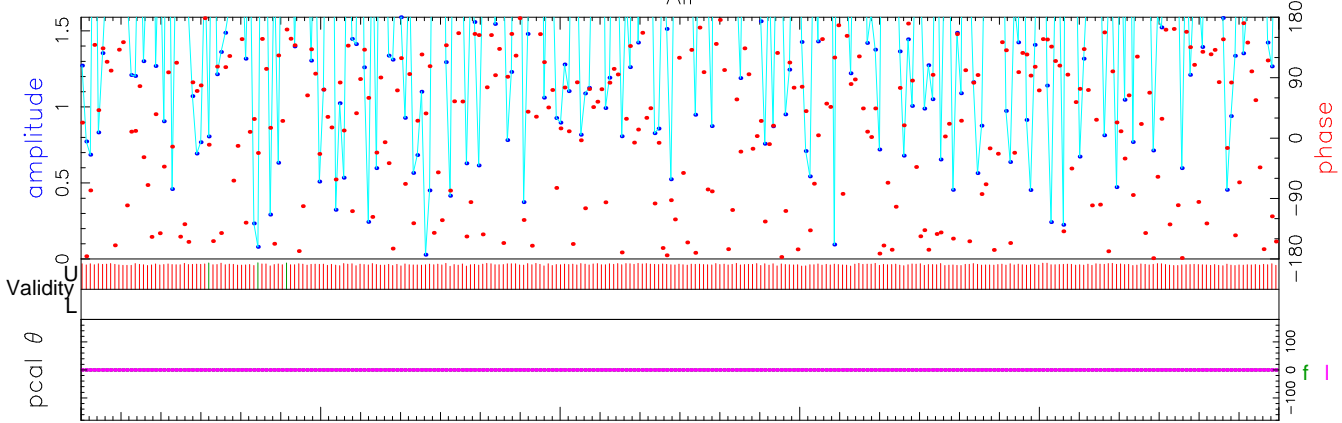


Fringe quality 0
SNR 5.8
Int time 270.405
Amp 0.530
Phase -138.9
PFD 5.1e-01
Delays (us)
SBD 1.995719
MBD -0.000006
Fringe rate (Hz)
-0.228175
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
122.5
0.5
768.4
U/L 586/0
f 1000
l 1000
f:l 0:0
f:l 0:0
f 1000
l 1000
f W06UL
l W06UR

Validity
pcal theta
f l

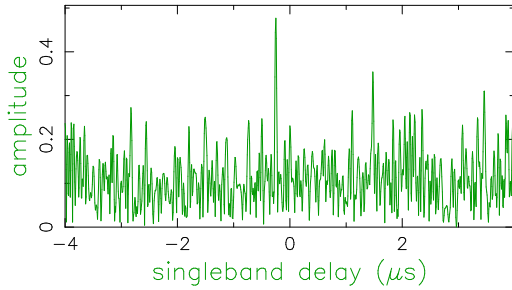
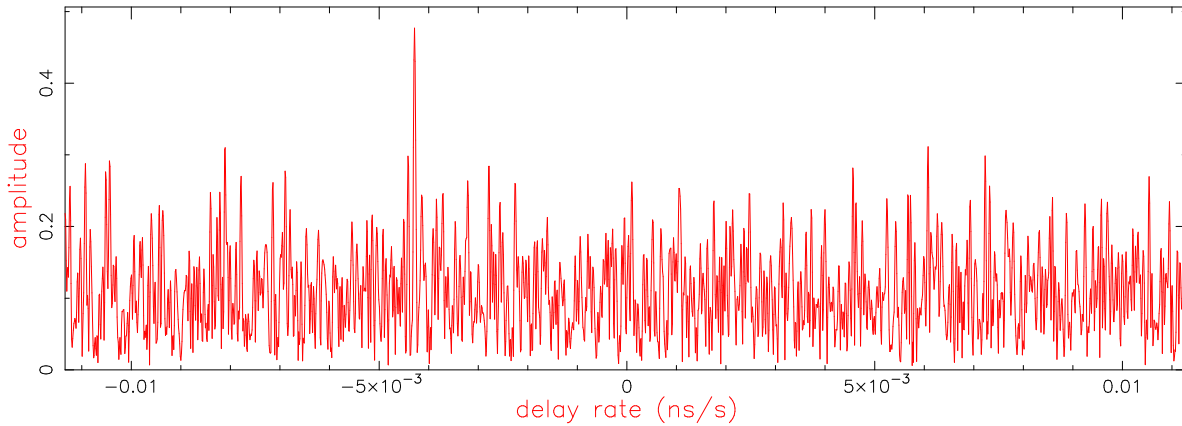
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.34311074045E+02	Apriori delay (usec)	6.32315360132E+02	Resid mbdelay (usec)	-5.54313E-06	+/-	3.0E-03
Sband delay (usec)	6.34311079132E+02	Apriori clock (usec)	1.6214590E+00	Resid sbdelay (usec)	1.99572E+00	+/-	3.0E-03
Phase delay (usec)	6.32315364082E+02	Apriori clockrate (us/s)	1.3300000E-07	Resid phdelay (usec)	3.95053E-06	+/-	6.3E-07
Delay rate (us/s)	4.06384394874E-02	Apriori rate (us/s)	4.06410883698E-02	Resid rate (us/s)	-2.64888E-06	+/-	3.7E-09
Total phase (deg)	-95.0	Apriori accel (us/s/s)	-5.72154534897E-06	Resid phase (deg)	-138.9	+/-	19.7
ph/seg (deg)	RMS 89.5 Theor. 168.3	Amplitude	0.530 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	335.1 293.7	Search (2048X8)	0.504	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0 9.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.7 17.2	Inc. seg. avg.	0.365	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
		Inc. frq. avg.	0.514	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
				nlags:	512	ion window (TEC)	0.00 0.00
f: az 89.4 el 32.4 pa -63.6		l: az 91.3 el 30.4 pa -57.6		u,v (fr/asec)	-249.959 -767.894		simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps2/f191a/FRINGE/1234/No0007//fl..0QR3WR		Output file: /Exps2/f191a/FRINGE/1234/No0007//fl.W.133.0QR3WR			

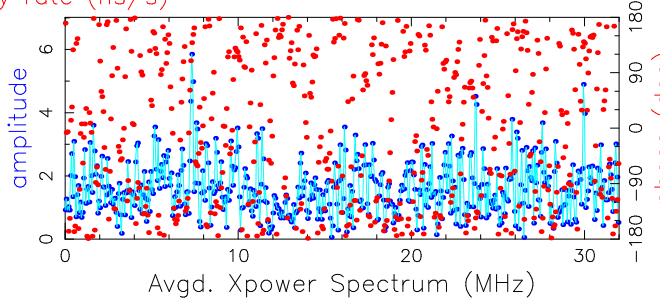
Fringe quality 0

SNR 5.4
Int time 270.381
Amp 0.506
Phase 179.5
PFD 1.0e+00
Delays (us)
SBD -0.250672
MBD -0.000007
Fringe rate (Hz)
-0.368338
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



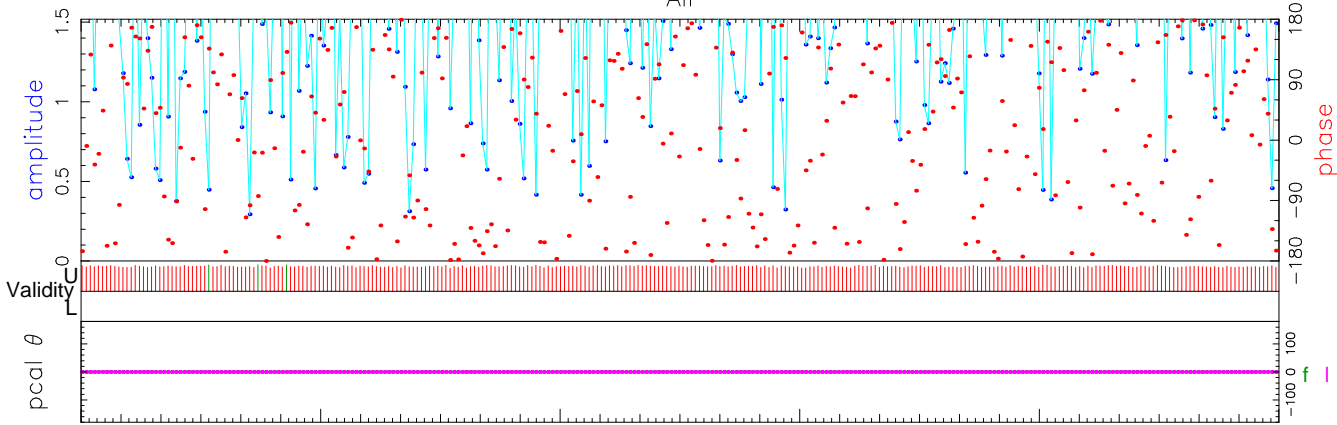
delay rate (ns/s)



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
164.3
0.5
480.9
U/L 586/0
f 1000
l 1000
f:l 0:0
f:l 0:0
f 1000
l 1000
f W06UR
l W06UL

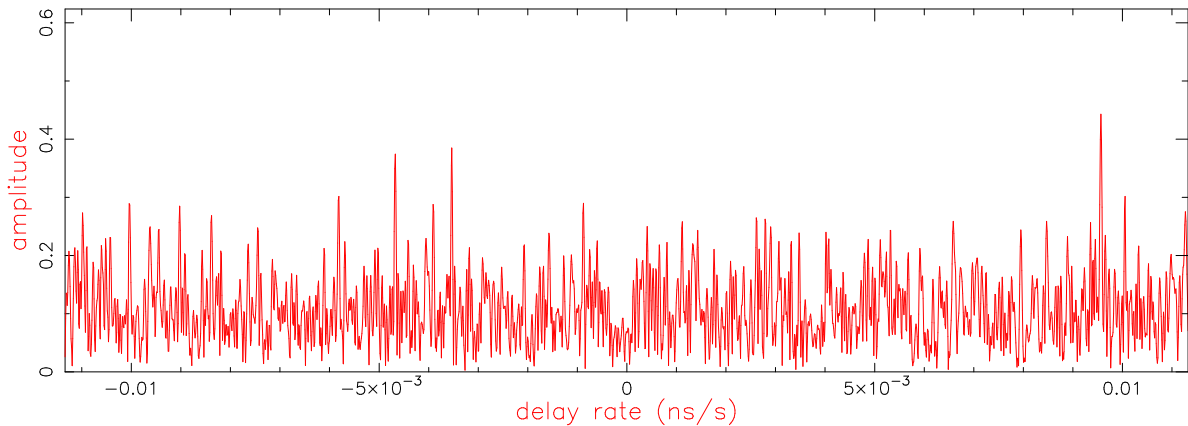
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.32064691660E+02	Apriori delay (usec)	6.32315360132E+02	Resid mbdelay (usec)	-7.24943E-06	+/- 3.2E-03
Sband delay (usec)	6.32064688632E+02	Apriori clock (usec)	1.6214590E+00	Resid sbdelay (usec)	-2.50672E-01	+/- 3.2E-03
Phase delay (usec)	6.32315365430E+02	Apriori clockrate (us/s)	1.3300000E-07	Resid phdelay (usec)	5.29831E-06	+/- 6.9E-07
Delay rate (us/s)	4.06368123337E-02	Apriori rate (us/s)	4.06410883698E-02	Resid rate (us/s)	-4.27604E-06	+/- 4.0E-09
Total phase (deg)	223.4	Apriori accel (us/s/s)	-5.72154534897E-06	Resid phase (deg)	179.5	+/- 21.4

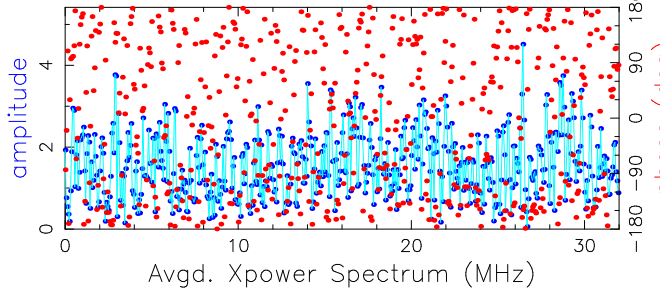
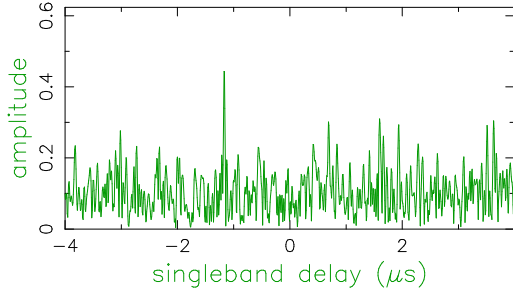
ph/seg (deg)	93.3	Theor.	182.8	Amplitude	0.506 +/- 0.094	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	368.8	Search (2048X8)	0.472	Search (2048X8)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.339	Inc. seg. avg.	0.339	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.497	Inc. frq. avg.	0.497	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011 0.011	

f: az 89.4 el 32.4 pa -63.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -249.959 -767.894 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fl..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fl.W.144.0QR3WR

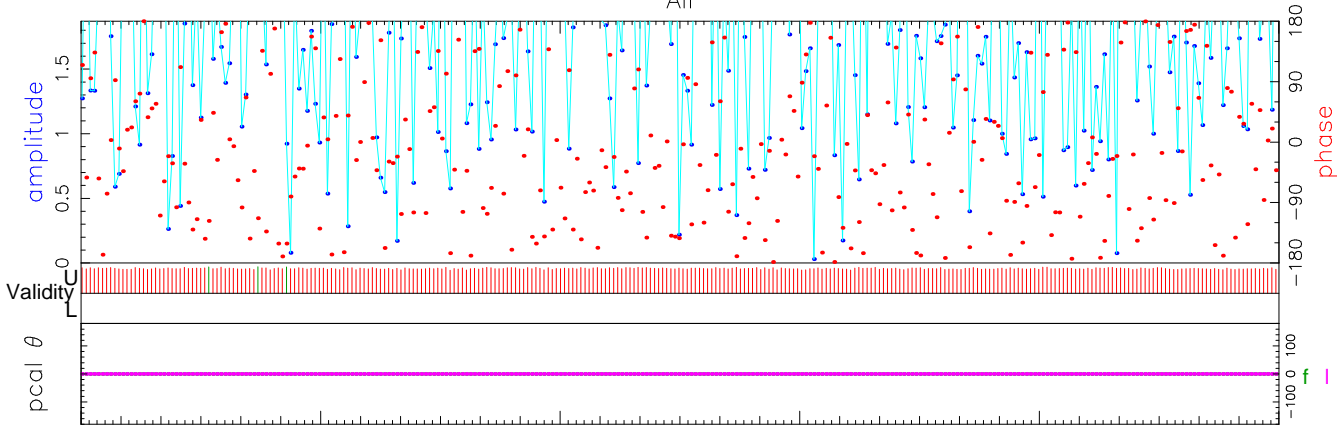


Fringe quality 0
SNR 5.1
Int time 270.397
Amp 0.624
Phase 196.3
PFD 1.0e+00
Delays (us)
SBD -1.167999
MBD 0.000007
Fringe rate (Hz)
0.823095
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-74.6
0.6
363.5
U/L 586/0
f 1000
l 1000
f:l 0:0
f:l 0:0
f 1000
l 1000
f W06UL
l W06UL

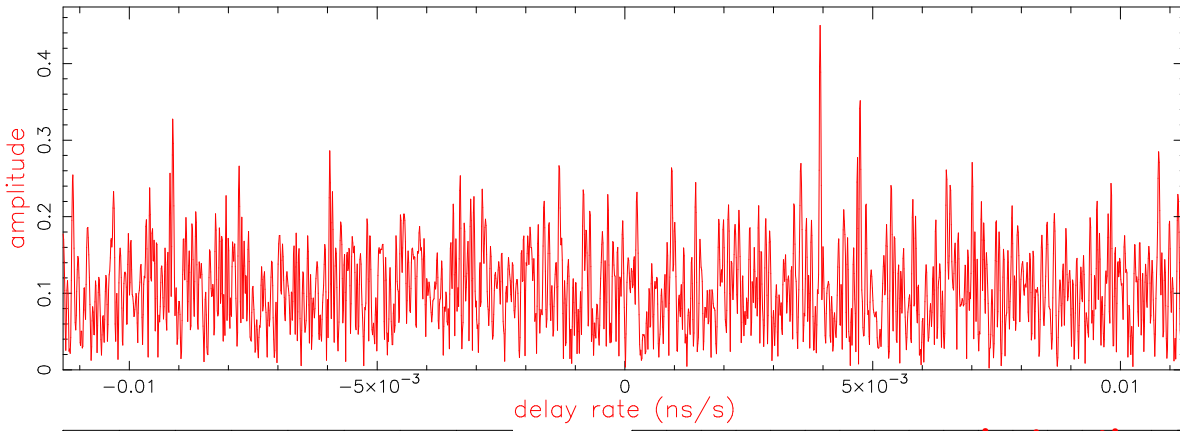
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.31147358386E+02	Apriori delay (usec)	6.32315360132E+02	Resid mbdelay (usec)	6.69964E-06	+/-	3.4E-03
Sband delay (usec)	6.31147361632E+02	Apriori clock (usec)	1.6214590E+00	Resid sbdelay (usec)	-1.16800E+00	+/-	3.4E-03
Phase delay (usec)	6.32315357725E+02	Apriori clockrate (us/s)	1.3300000E-07	Resid phdelay (usec)	-2.40634E-06	+/-	7.2E-07
Delay rate (us/s)	4.06506436838E-02	Apriori rate (us/s)	4.06410883698E-02	Resid rate (us/s)	9.55531E-06	+/-	4.2E-09
Total phase (deg)	240.1	Apriori accel (us/s/s)	-5.72154534897E-06	Resid phase (deg)	196.3	+/-	22.3

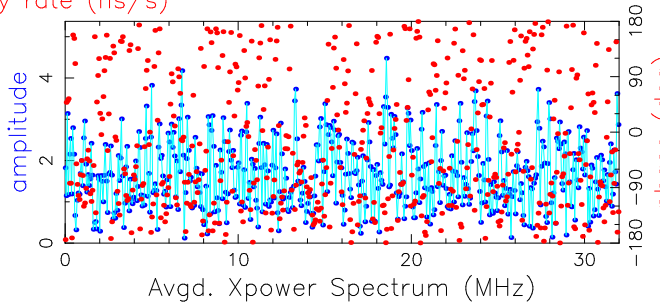
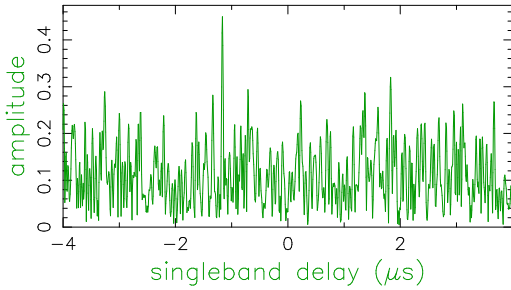
ph/seg (deg)	RMS 91.7	Theor. 191.0	Amplitude 0.624 +/- 0.121	Search (2048X8)	0.439	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	395.4	333.3	Interp. 0.000	Inc. seg. avg.	0.409	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	11.2	Inc. frq. avg.	0.593	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	3.1	19.5	u,v (fr/asec) -249.959 -767.894	Data rate (Mb/s): 128	nlags: 512	t_cohere infinite	dr window (ns/s) -0.011 0.011

f: az 89.4 el 32.4 pa -63.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -249.959 -767.894 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fl..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fl.W.88.0QR3WR

Fringe quality 0



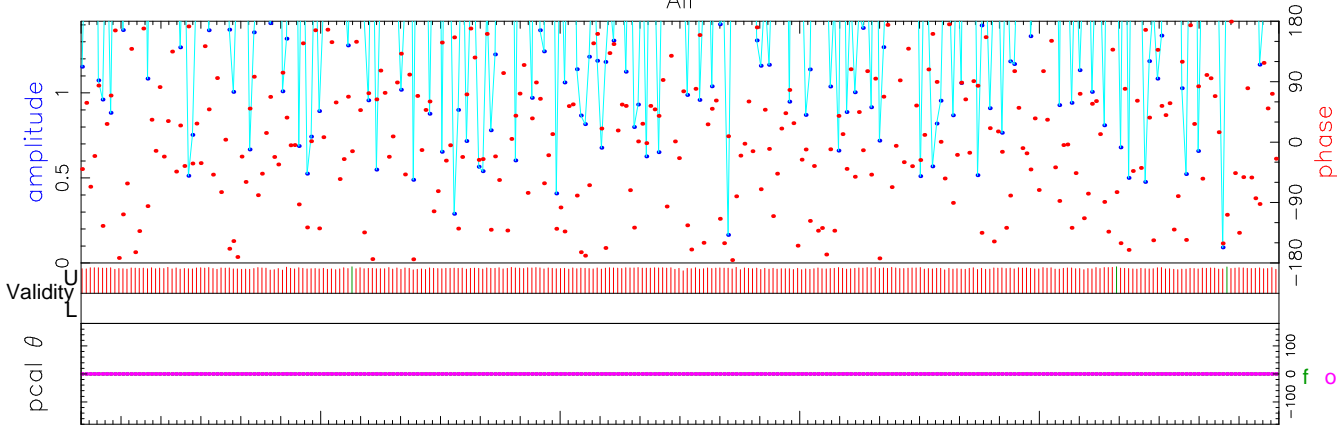
SNR 5.1
 Int time 271.201
 Amp 0.474
 Phase 211.3
 PFD 1.0e+00
 Delays (us)
 SBD -1.165128
 MBD 0.000006
 Fringe rate (Hz)
 0.339515
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174201
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 6.7
 0.5
 363.9
 U/L 586/0
 f 1000
 o 1000
 f:o 0:0
 f:o 0:0
 f 1000
 o 1000
 f W06UR
 o W06UR

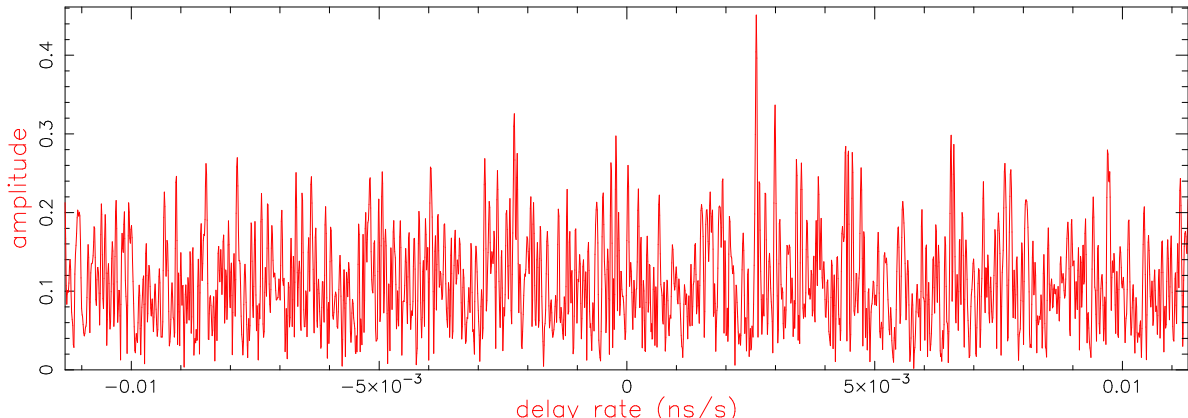
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.82266316034E+03	Apriori delay (usec)	3.82382828620E+03	Resid mbdelay (usec)	5.69134E-06	+/-	3.4E-03
Sband delay (usec)	3.82266315770E+03	Apriori clock (usec)	-1.4512599E+01	Resid sbdelay (usec)	-1.16513E+00	+/-	3.4E-03
Phase delay (usec)	3.82382828641E+03	Apriori clockrate (us/s)	-4.6355996E-07	Resid phdelay (usec)	2.15809E-07	+/-	7.3E-07
Delay rate (us/s)	-2.82006839322E-02	Apriori rate (us/s)	-2.82046253704E-02	Resid rate (us/s)	3.94144E-06	+/-	4.2E-09
Total phase (deg)	57.6	Apriori accel (us/s/s)	-2.34201246628E-05	Resid phase (deg)	211.3	+/-	22.6

ph/seg (deg)	RMS 94.0	Theor. 193.3	Amplitude Search (2048X8)	0.474 +/- 0.093	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	381.5	337.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.3	Inc. seg. avg.	0.297	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.2	19.7	Inc. frq. avg.	0.464	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 89.4 el 32.4 pa -63.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 138.231 -1348.119 simultaneous interpolator

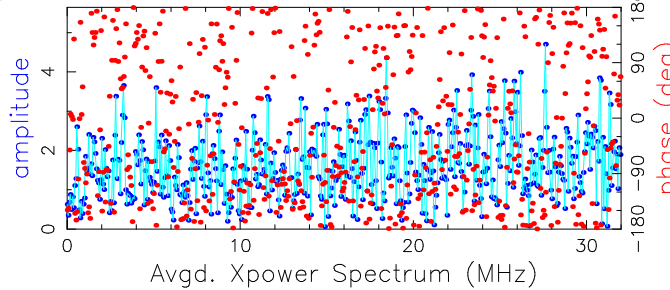
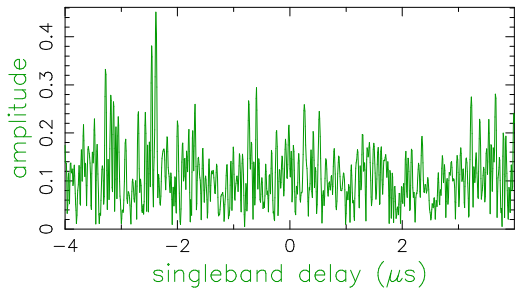
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fo.W.108.0QR3WR



Fringe quality 0

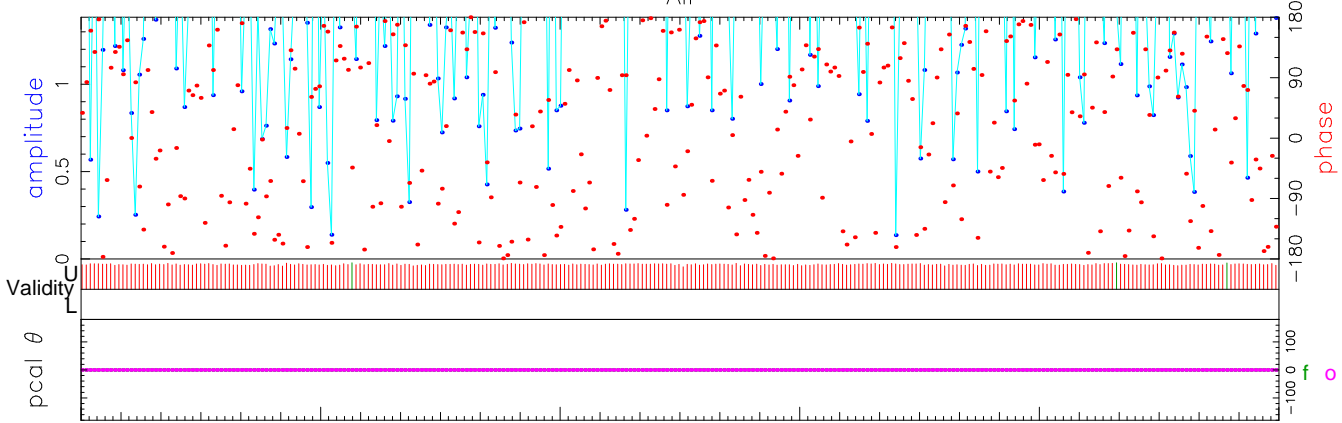
SNR 5.1
 Int time 271.210
 Amp 0.461
 Phase 341.1
 PFD 1.0e+00
 Delays (us)
 SBD -2.383292
 MBD 0.000005
 Fringe rate (Hz)
 0.224808
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174203
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 149.9
 0.5
 207.9
 U/L 586/0
 f 1000
 o 1000
 f:o 0:0
 f:o 0:0
 f 1000
 o 1000
 f W06UL
 o W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp

Chan ids
 Chan ids

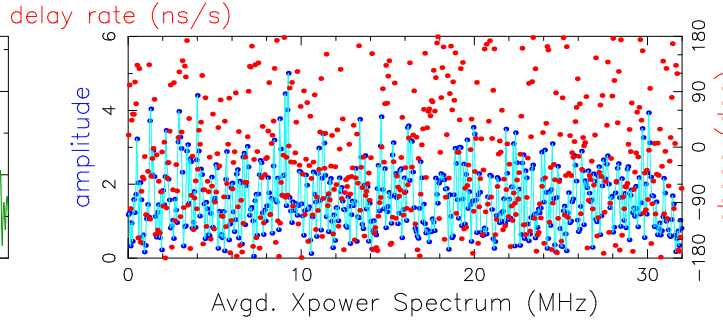
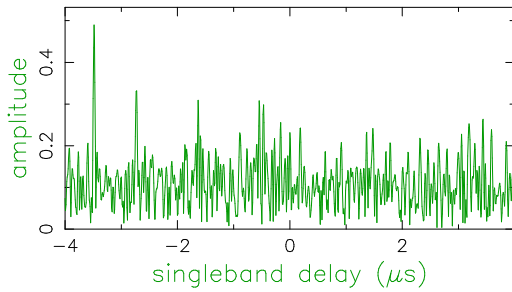
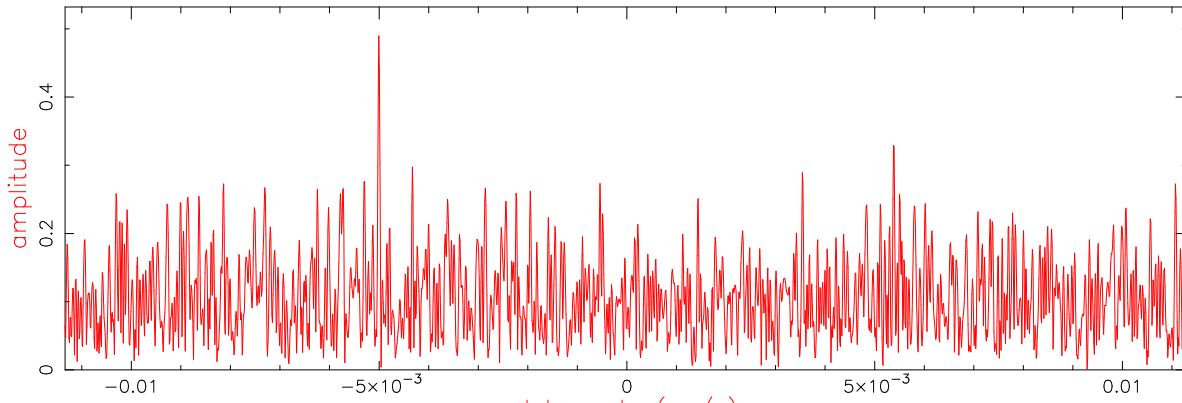
Group delay (usec)(sbd)	3.82144499087E+03	Apriori delay (usec)	3.82382828620E+03	Resid mbdelay (usec)	4.75477E-06	+/- 3.4E-03
Sband delay (usec)	3.82144499370E+03	Apriori clock (usec)	-1.4512599E+01	Resid sbdelay (usec)	-2.38329E+00	+/- 3.4E-03
Phase delay (usec)	3.82382829103E+03	Apriori clockrate (us/s)	-4.6355996E-07	Resid phdelay (usec)	4.83232E-06	+/- 7.3E-07
Delay rate (us/s)	-2.82020155728E-02	Apriori rate (us/s)	-2.82046253704E-02	Resid rate (us/s)	2.60980E-06	+/- 4.2E-09
Total phase (deg)	187.4	Apriori accel (us/s/s)	-2.34201246628E-05	Resid phase (deg)	341.1	+/- 22.5

ph/seg (deg) 92.8 193.0 Search (2048X8) 0.444 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 395.1 336.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 0.0 11.3 Inc. seg. avg. 0.298 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
 amp/frq (%) 0.0 19.7 Inc. frq. avg. 0.452 Sample rate(MSamp/s): 64 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 89.4 el 32.4 pa -63.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 138.231 -1348.119 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fo.W.124.0QR3WR

Fringe quality 0

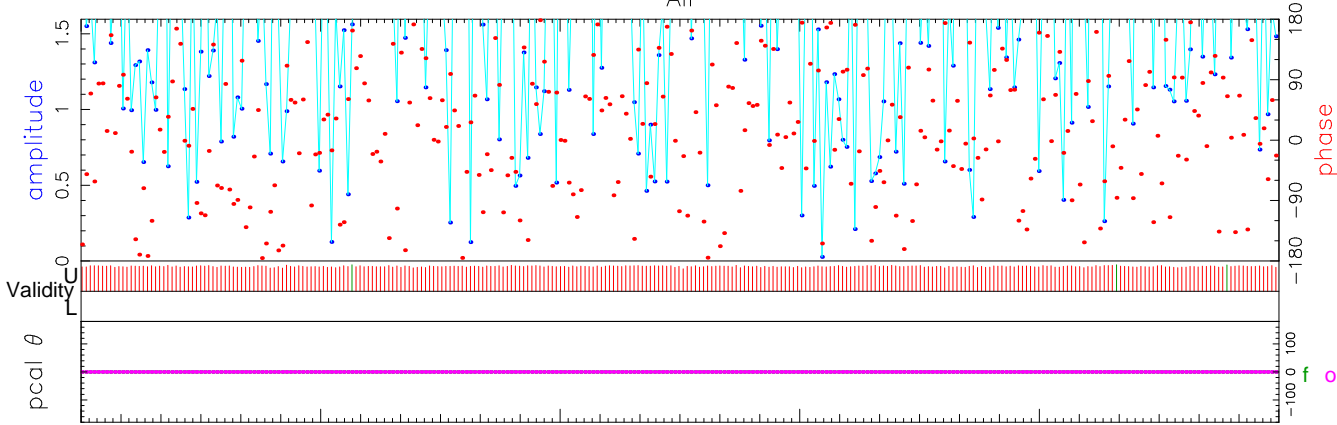
SNR 5.5
 Int time 271.199
 Amp 0.532
 Phase 2.8
 PFD 9.8e-01
 Delays (us)
 SBD -3.483188
 MBD -0.000006
 Fringe rate (Hz)
 -0.430327
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174204
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



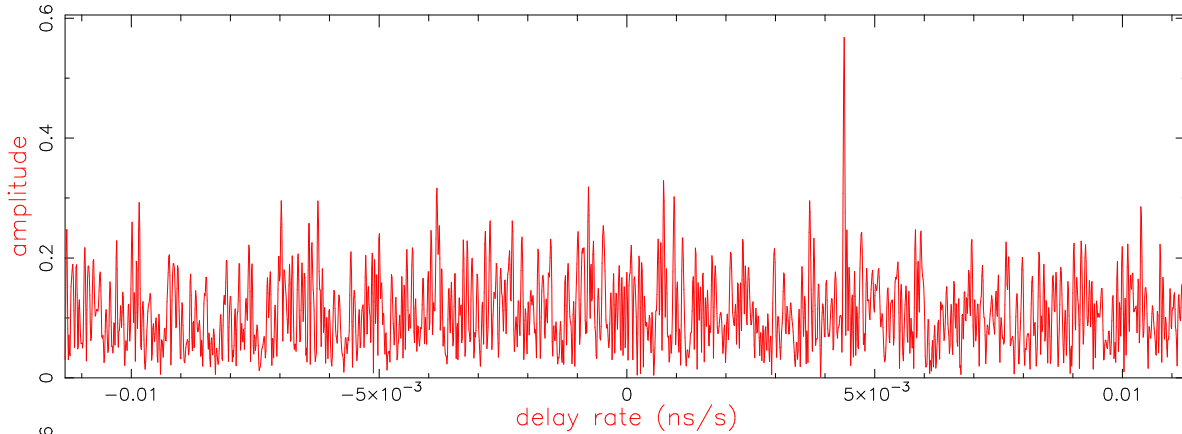
86204.00
 30.3
 0.5
 67.1
 U/L 586/0
 f 1000
 o 1000
 f:o 0:0
 f:o 0:0
 f 1000
 o 1000
 f W06UR
 o W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.82034510101E+03	Apriori delay (usec)	3.82382828620E+03	Resid mbdelay (usec)	-5.74915E-06	+/-	3.1E-03
Sband delay (usec)	3.82034509770E+03	Apriori clock (usec)	-1.4512599E+01	Resid sbdelay (usec)	-3.48319E+00	+/-	3.1E-03
Phase delay (usec)	3.82382828717E+03	Apriori clockrate (us/s)	-4.6355996E-07	Resid phdelay (usec)	9.78115E-07	+/-	6.7E-07
Delay rate (us/s)	-2.82096210411E-02	Apriori rate (us/s)	-2.82046253704E-02	Resid rate (us/s)	-4.99567E-06	+/-	3.9E-09
Total phase (deg)	209.1	Apriori accel (us/s/s)	-2.34201246628E-05	Resid phase (deg)	2.8	+/-	20.7

ph/seg (deg)	92.4	Theor.	177.5	Amplitude	0.532 +/- 0.096	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	348.3	Search (2048X8)	0.483	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.356	Inc. seg. avg.	0.356	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.2	Inc. frq. avg.	0.522	Inc. frq. avg.	0.522	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011

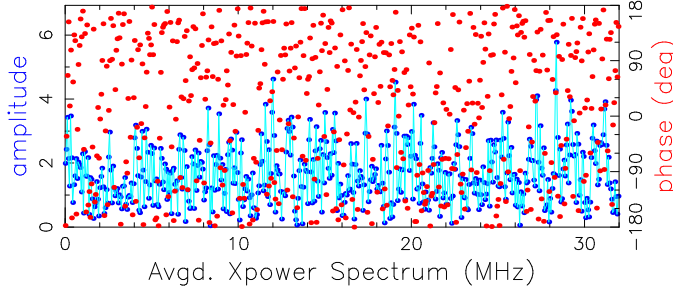
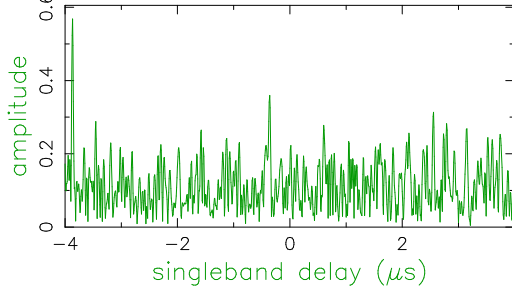
f: az 89.4 el 32.4 pa -63.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 138.231 -1348.119 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fo.W.140.0QR3WR



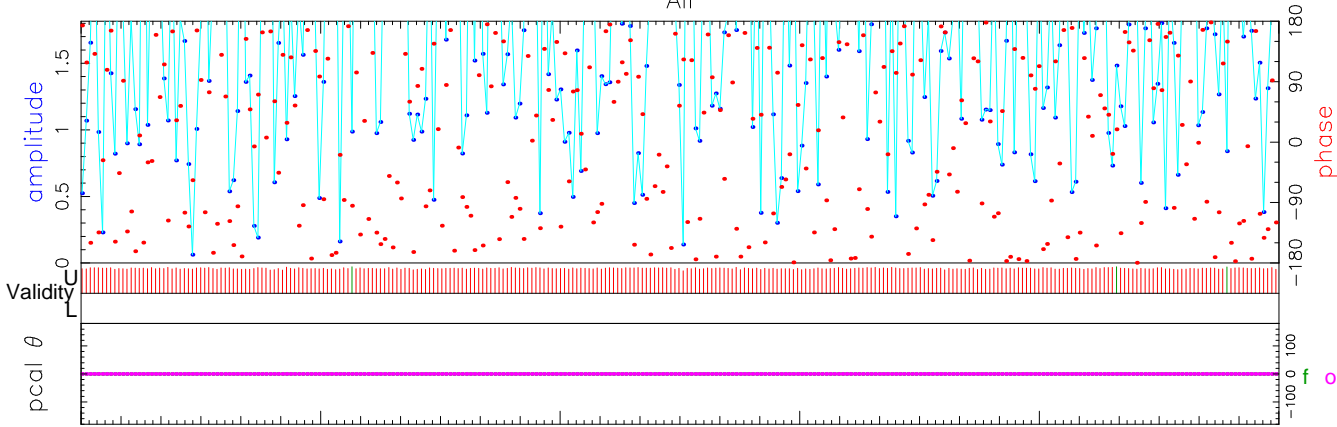
Fringe quality 0

SNR 6.4
 Int time 271.208
 Amp 0.605
 Phase 18.7
 PFD 2.0e-02
 Delays (us)
 SBD -3.868226
 MBD 0.000004
 Fringe rate (Hz)
 0.377491
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174200
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 174.6
 0.6
 17.9
 U/L 586/0
 f 1000
 o 1000
 f:o 0:0
 f:o 0:0
 f 1000
 o 1000
 f W06UL
 o W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.81996005945E+03	Apriori delay (usec)	3.82382828620E+03	Resid mbdelay (usec)	4.42263E-06	+/- 2.7E-03
Sband delay (usec)	3.81996006020E+03	Apriori clock (usec)	-1.4512599E+01	Resid sbdelay (usec)	-3.86823E+00	+/- 2.7E-03
Phase delay (usec)	3.82382829183E+03	Apriori clockrate (us/s)	-4.6355996E-07	Resid phdelay (usec)	5.63175E-06	+/- 5.8E-07
Delay rate (us/s)	-2.82002430755E-02	Apriori rate (us/s)	-2.82046253704E-02	Resid rate (us/s)	4.38230E-06	+/- 3.3E-09
Total phase (deg)	225.0	Apriori accel (us/s/s)	-2.34201246628E-05	Resid phase (deg)	18.7	+/- 17.9

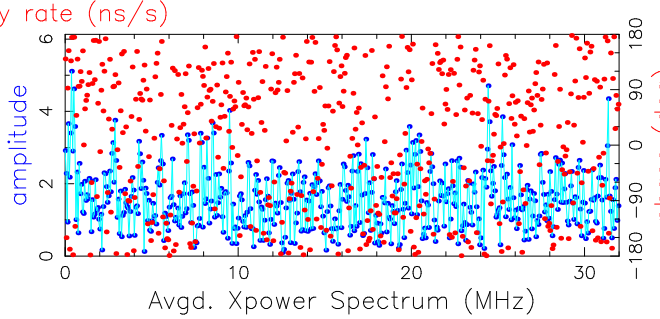
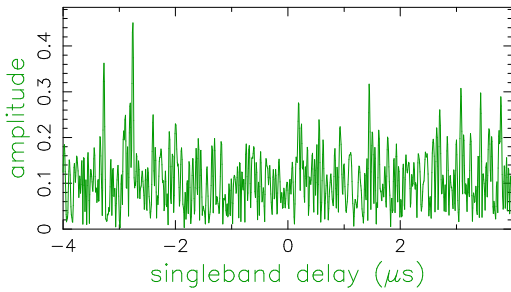
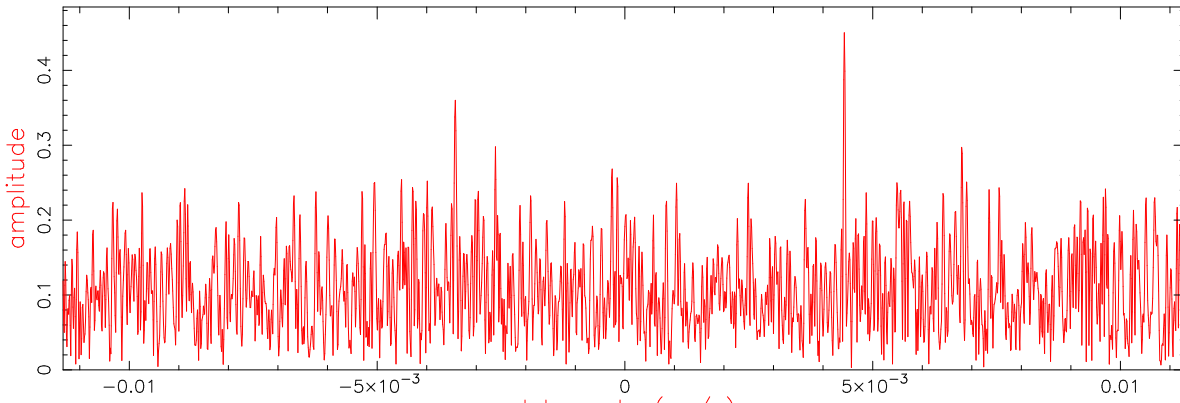
ph/seg (deg)	86.8	Theor.	153.1	Amplitude	0.605 +/- 0.095	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	287.6	Search (2048X8)	0.562	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.437	Inc. frq. avg.	0.597	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.2					Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

f: az 89.4 el 32.4 pa -63.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 138.231 -1348.119 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fo.W.95.0QR3WR

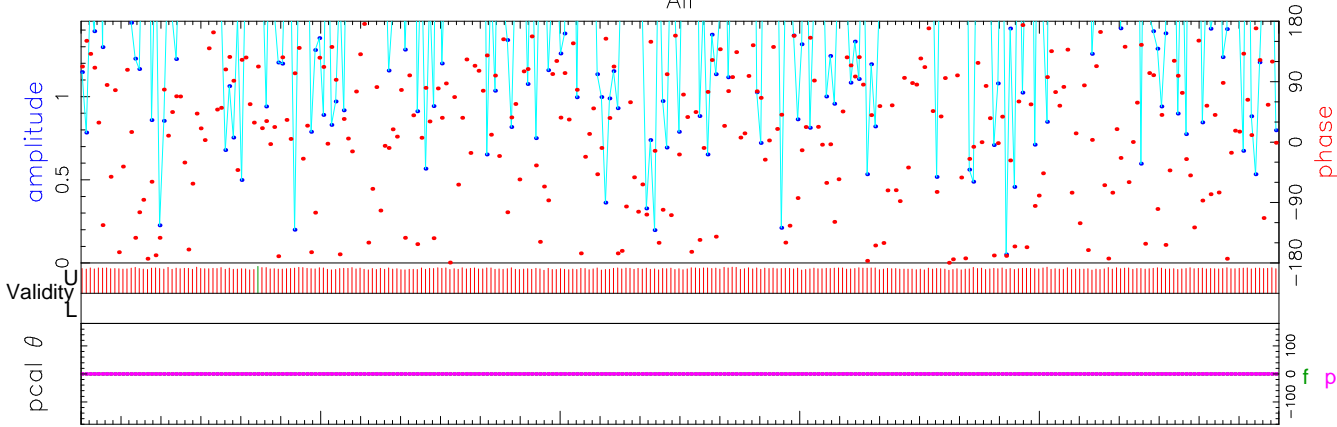
Fringe quality 0

SNR 5.1
Int time 268.793
Amp 0.485
Phase 295.7
PFD 1.0e+00
Delays (us)
SBD -2.760124
MBD 0.000005
Fringe rate (Hz)
0.381352
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
62.4
0.5
159.7
U/L 586/0
p 1000
f:p 0:0
f:p 0:0
f 1000
p 1000
f W06UR
p W06UR

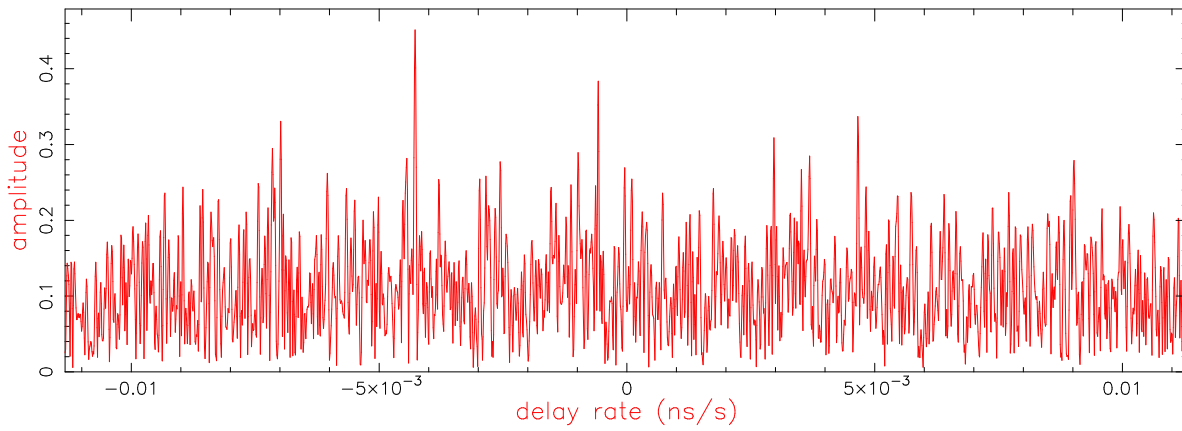
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.09587564539E+03	Apriori delay (usec)	1.09863576780E+03	Resid mbdelay (usec)	4.73723E-06	+/-	3.4E-03
Sband delay (usec)	1.09587564330E+03	Apriori clock (usec)	-1.6491962E+01	Resid sbdelay (usec)	-2.76012E+00	+/-	3.4E-03
Phase delay (usec)	1.09863576981E+03	Apriori clockrate (us/s)	1.0999990E-08	Resid phdelay (usec)	2.01166E-06	+/-	7.2E-07
Delay rate (us/s)	3.34923168741E-03	Apriori rate (us/s)	3.34480456484E-03	Resid rate (us/s)	4.42712E-06	+/-	4.2E-09
Total phase (deg)	309.4	Apriori accel (us/s/s)	-7.63394504442E-06	Resid phase (deg)	295.7	+/-	22.5

ph/seg (deg)	89.9	Theor.	192.4	Amplitude	0.485 +/- 0.095	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	373.6	Search (2048X8)	0.448	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.302	Inc. seg. avg.	0.302	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.0	Inc. frq. avg.	0.471	Inc. frq. avg.	0.471	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

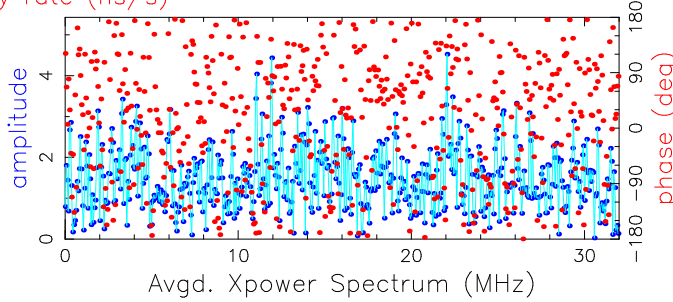
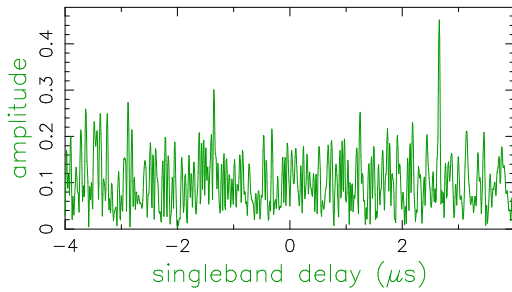
f: az 89.4 el 32.4 pa -63.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -29.828 -633.921 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fp.W.101.0QR3WR



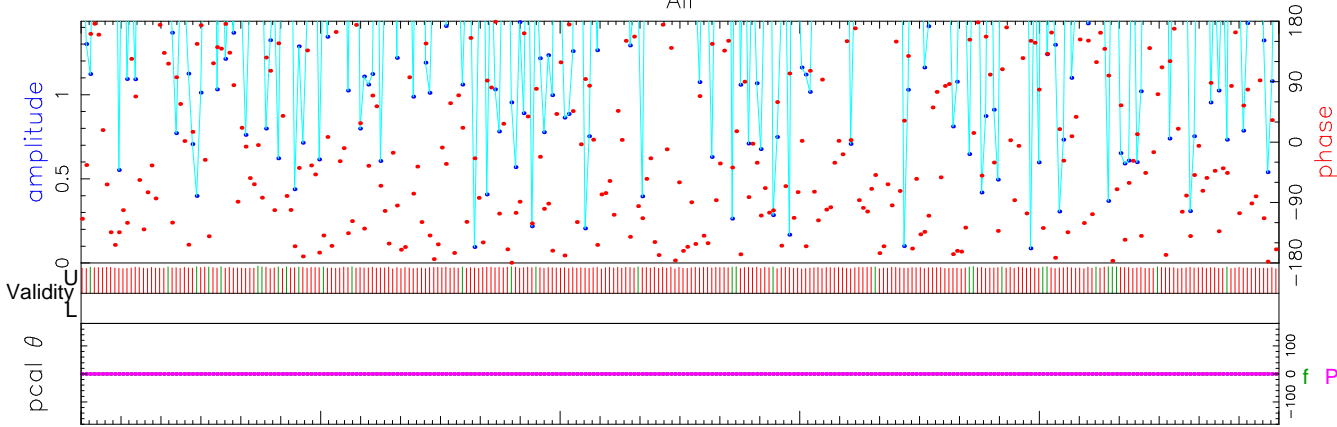
Fringe quality 0

SNR 5.1
Int time 278.314
Amp 0.479
Phase -124.3
PFD 1.0e+00
Delays (us)
SBD 2.656672
MBD -0.000007
Fringe rate (Hz)
-0.367900
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



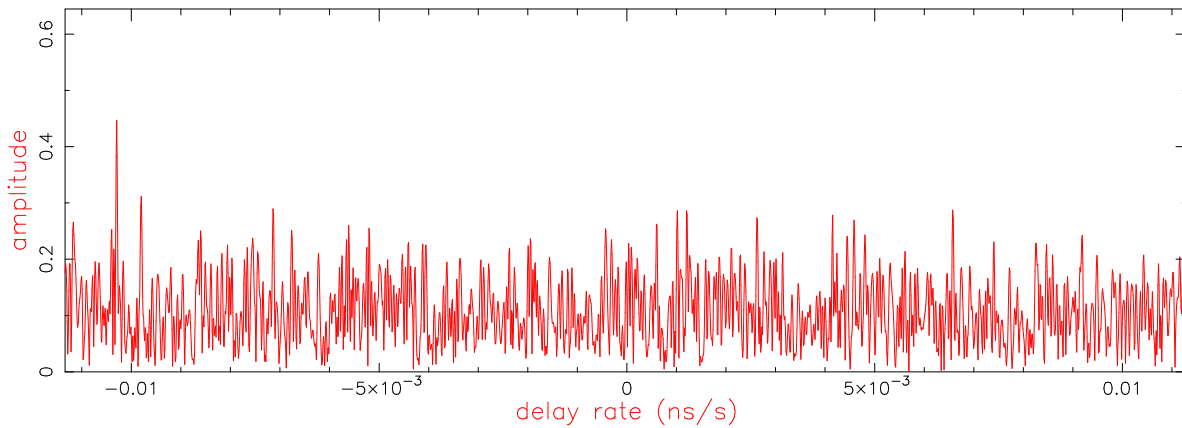
86204.00
-114.5
0.5
853.0
U/L 586/0
f 1000
P 0
f:P 0:0
f:P 0:0
f 1000
P 1000
f W06UR
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.47523621521E+03	Apriori delay (usec)	-4.47789288282E+03	Resid mbdelay (usec)	-7.24920E-06	+/-	3.3E-03
Sband delay (usec)	-4.47523621082E+03	Apriori clock (usec)	1.4890563E+01	Resid sbdelay (usec)	2.65667E+00	+/-	3.3E-03
Phase delay (usec)	-4.47789288651E+03	Apriori clockrate (us/s)	4.5300000E-07	Resid phdelay (usec)	-3.69371E-06	+/-	7.2E-07
Delay rate (us/s)	1.88156506869E+00	Apriori rate (us/s)	1.88156933964E+00	Resid rate (us/s)	-4.27095E-06	+/-	4.1E-09
Total phase (deg)	-97.8	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-124.3	+/-	22.3

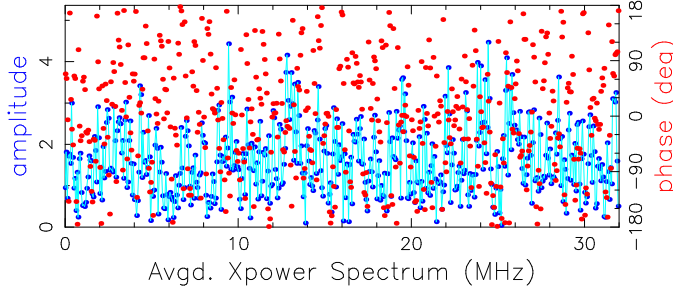
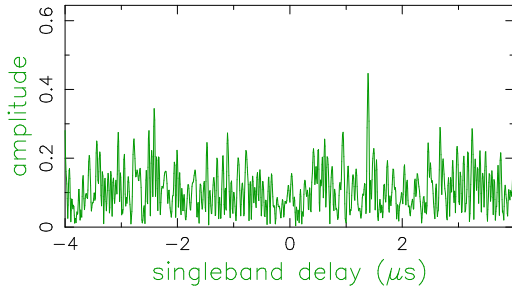
ph/seg (deg)	RMS 91.6	Theor. 190.5	Amplitude 0.479 +/- 0.093	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	405.1	332.5	Search (2048X8) 0.447	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	19.4	Inc. seg. avg. 0.317	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.470	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

f: az 89.4 el 32.4 pa -63.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fP.W.103.0QR3WR



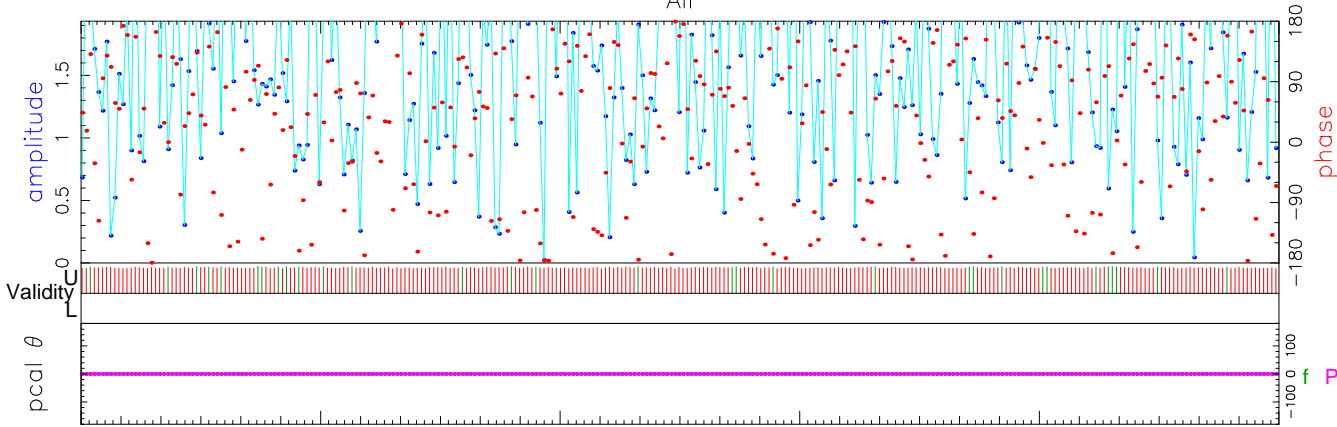
Fringe quality 0

SNR 5.1
Int time 278.323
Amp 0.645
Phase -282.9
PFD 1.0e+00
Delays (us)
SBD 1.391783
MBD -0.000005
Fringe rate (Hz)
-0.886226
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
104.0
0.6
691.1
U/L 586/0
f 1000
P 0
f:P 0:0
f:P 0:0
f 1000
P 1000
f W06UL
P W06UR

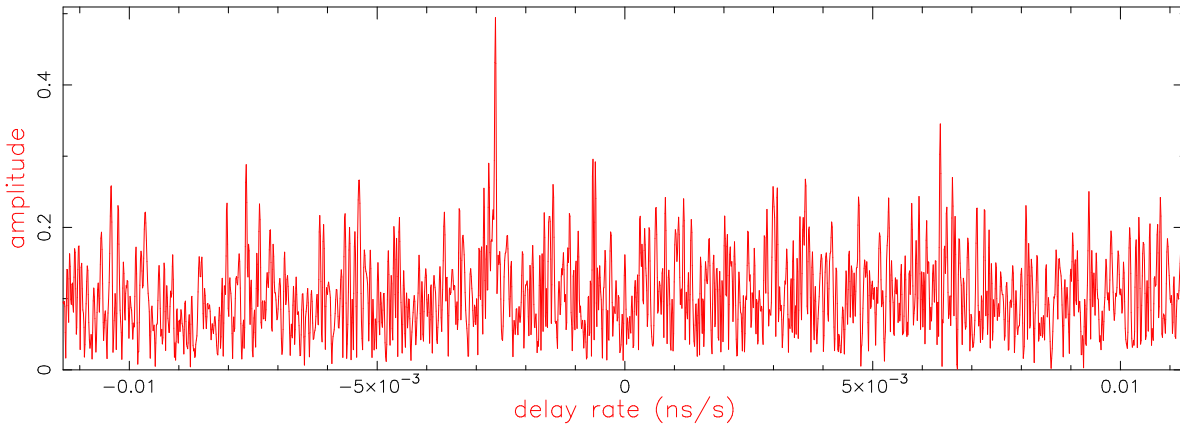
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.47650109638E+03	Apriori delay (usec)	-4.47789288282E+03	Resid mbdelay (usec)	-5.11948E-06	+/-	3.4E-03
Sband delay (usec)	-4.47650109932E+03	Apriori clock (usec)	1.4890563E+01	Resid sbdelay (usec)	1.39178E+00	+/-	3.4E-03
Phase delay (usec)	-4.47789287947E+03	Apriori clockrate (us/s)	4.5300000E-07	Resid phdelay (usec)	3.35303E-06	+/-	7.2E-07
Delay rate (us/s)	1.88155905143E+00	Apriori rate (us/s)	1.88156933964E+00	Resid rate (us/s)	-1.02882E-05	+/-	4.2E-09
Total phase (deg)	-256.3	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-282.9	+/-	22.5

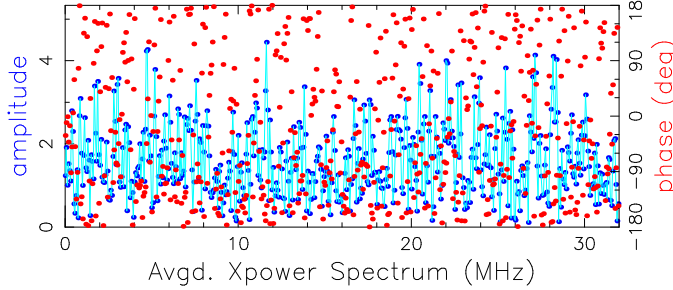
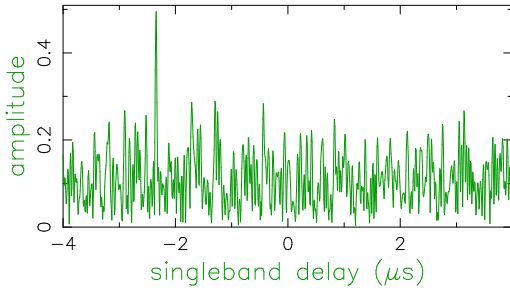
ph/seg (deg)	90.6	Theor.	192.2	Amplitude	0.645 +/- 0.126	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	380.0	Search (2048X8)	0.438	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.396	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.631	Inc. frq. avg.	0.631	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fP.W.131.0QR3WR

Fringe quality 0



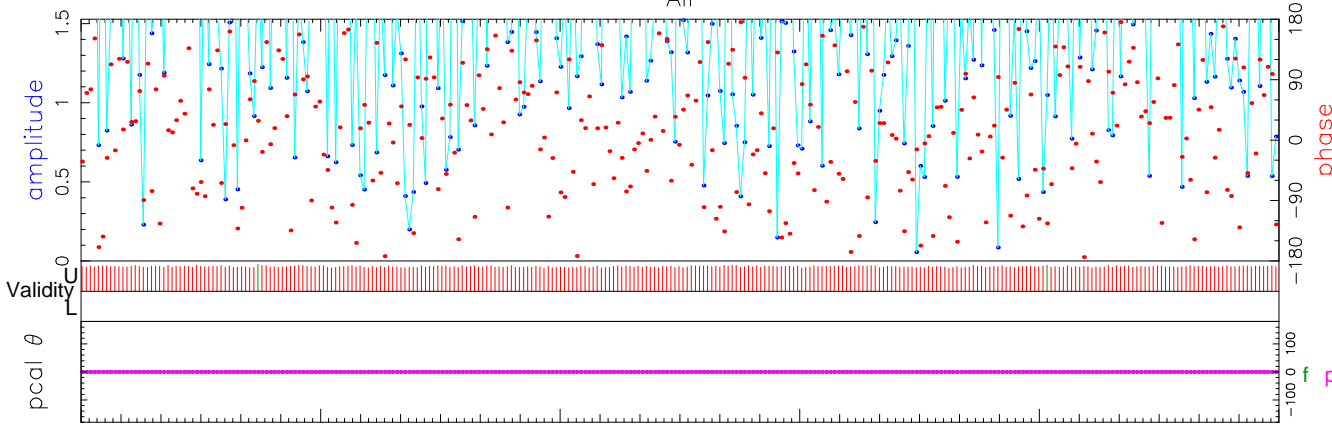
SNR 5.6
Int time 268.804
Amp 0.509
Phase 81.9
PFD 9.4e-01
Delays (us)
SBD -2.345895
MBD -0.000005
Fringe rate (Hz)
-0.224976
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
32.6
0.5
212.7
U/L 586/0
f 1000
p 1000
f:p 0:0
f:p 0:0
f 1000
p 1000
f W06UL
p W06UR

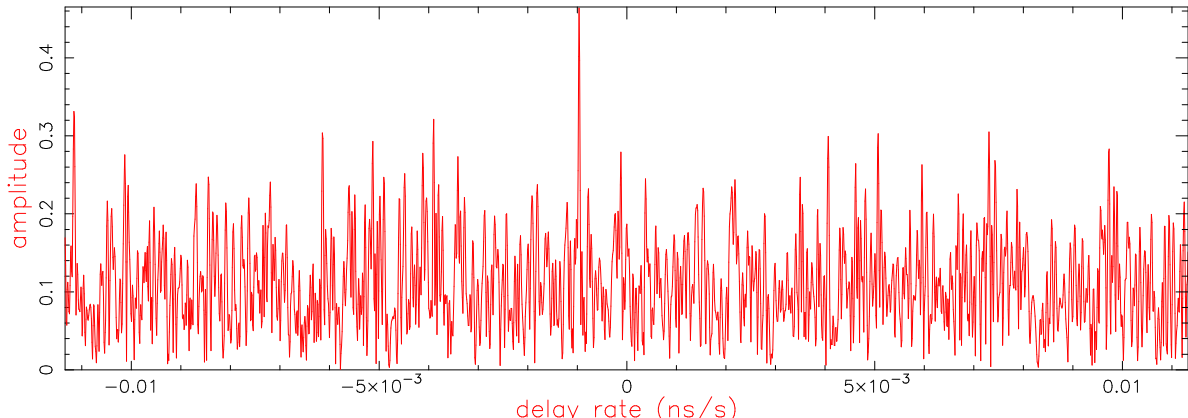
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.09628987391E+03	Apriori delay (usec)	1.09863576780E+03	Resid mbdelay (usec)	-5.06417E-06	+/-	3.1E-03
Sband delay (usec)	1.09628987280E+03	Apriori clock (usec)	-1.6491962E+01	Resid sbdelay (usec)	-2.34590E+00	+/-	3.1E-03
Phase delay (usec)	1.09863576885E+03	Apriori clockrate (us/s)	1.0999990E-08	Resid phdelay (usec)	1.05210E-06	+/-	6.6E-07
Delay rate (us/s)	3.34219281721E-03	Apriori rate (us/s)	3.34480456484E-03	Resid rate (us/s)	-2.61175E-06	+/-	3.8E-09
Total phase (deg)	95.6	Apriori accel (us/s/s)	-7.63394504442E-06	Resid phase (deg)	81.9	+/-	20.5

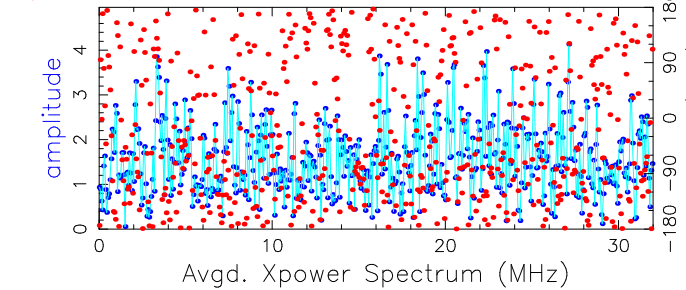
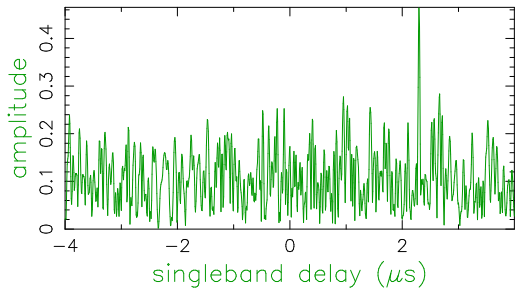
ph/seg (deg)	89.4	Theor.	175.6	Amplitude	0.509 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	327.1	Search (2048X8)	0.491	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.324	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.498	Inc. frq. avg.	0.498	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -29.828 -633.921 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fp.W.135.0QR3WR



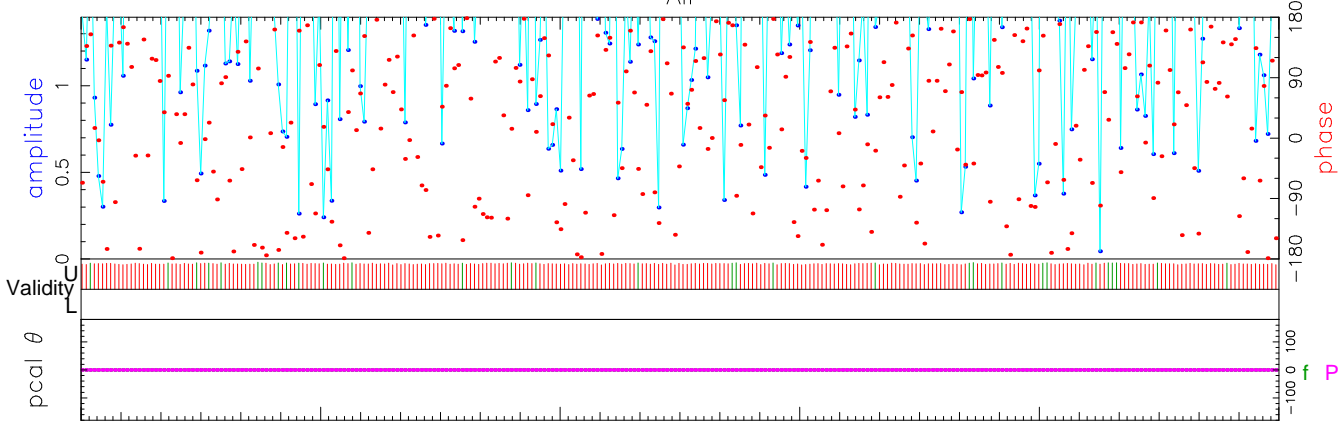
Fringe quality 0
SNR 5.3
Int time 278.314
Amp 0.465
Phase -238.4
PFD 1.0e+00
Delays (us)
SBD 2.297436
MBD -0.000007
Fringe rate (Hz)
-0.083305
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All

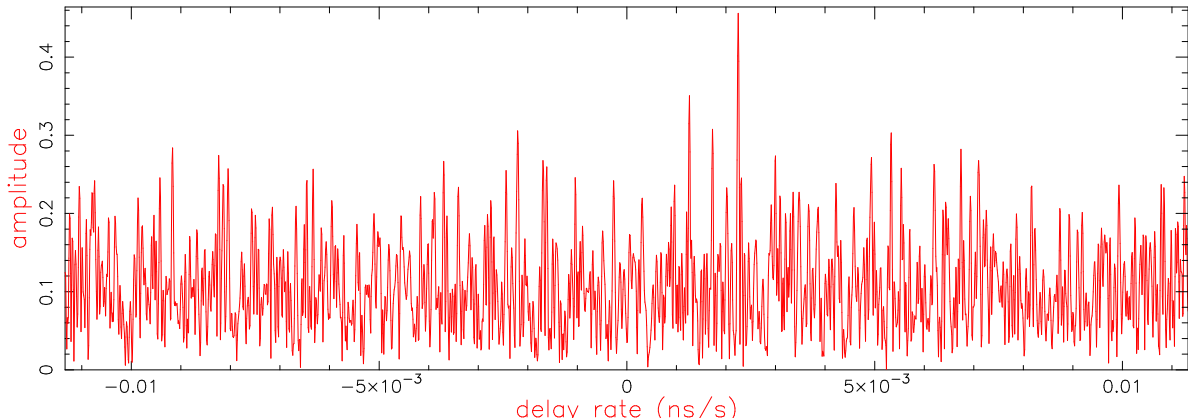


86204.00 Freq (MHz)
134.7 Phase
0.5 Ampl.
807.1 Sbd box
U/L 586/0 APs used
f 1000 PC freqs
P 0 PC freqs
f:P 0:0 PC phase
f:P 0:0 Mani PC
f 1000 PC amp
P 1000
f W06UR Chan ids
P W06UL Chan ids

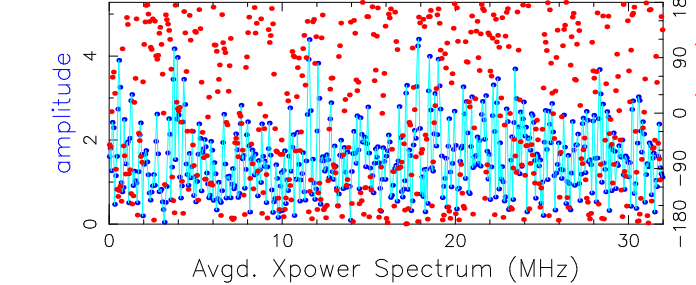
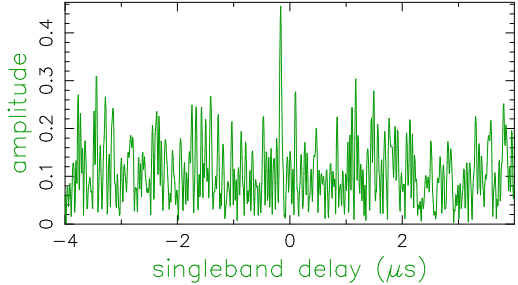
Group delay (usec)(sbd)	-4.47559544407E+03	Apriori delay (usec)	-4.47789288282E+03	Resid mbdelay (usec)	-6.84562E-06	+/-	3.3E-03
Sband delay (usec)	-4.47559544732E+03	Apriori clock (usec)	1.4890563E+01	Resid sbdelay (usec)	2.29744E+00	+/-	3.3E-03
Phase delay (usec)	-4.47789287848E+03	Apriori clockrate (us/s)	4.5300000E-07	Resid phdelay (usec)	4.34504E-06	+/-	7.0E-07
Delay rate (us/s)	1.88156837256E+00	Apriori rate (us/s)	1.88156933964E+00	Resid rate (us/s)	-9.67086E-07	+/-	4.0E-09
Total phase (deg)	-211.8	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-238.4	+/-	21.7

ph/seg (deg)	94.6	Theor.	185.4	Amplitude	0.465 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	384.2	Search (2048X8)	0.451	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.308	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.457	Inc. frq. avg.	0.457	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fP.W.142.0QR3WR



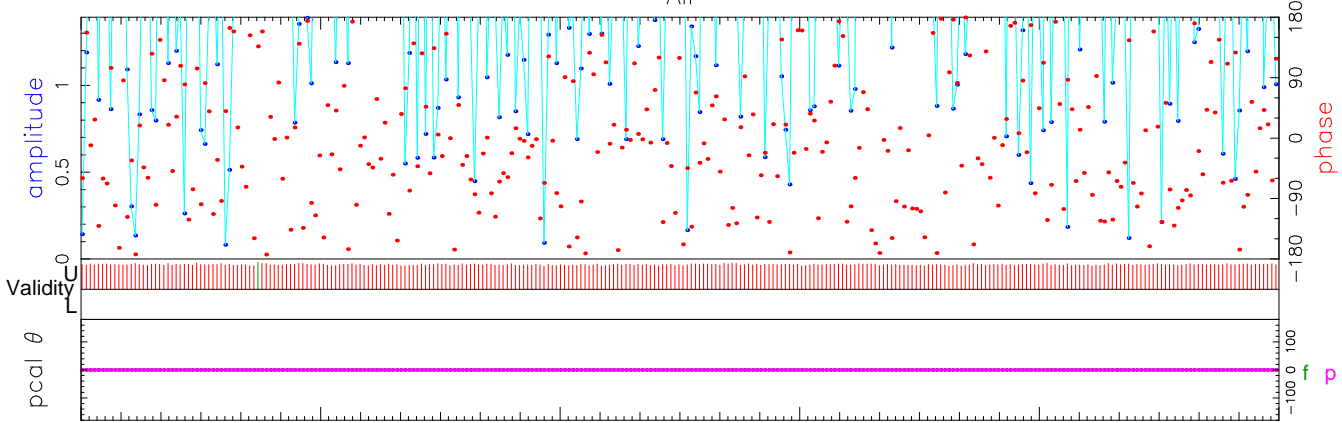
Fringe quality 0
SNR 5.1
Int time 268.799
Amp 0.464
Phase 159.6
PFD 1.0e+00
Delays (us)
SBD -0.165119
MBD 0.000005
Fringe rate (Hz)
0.193402
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

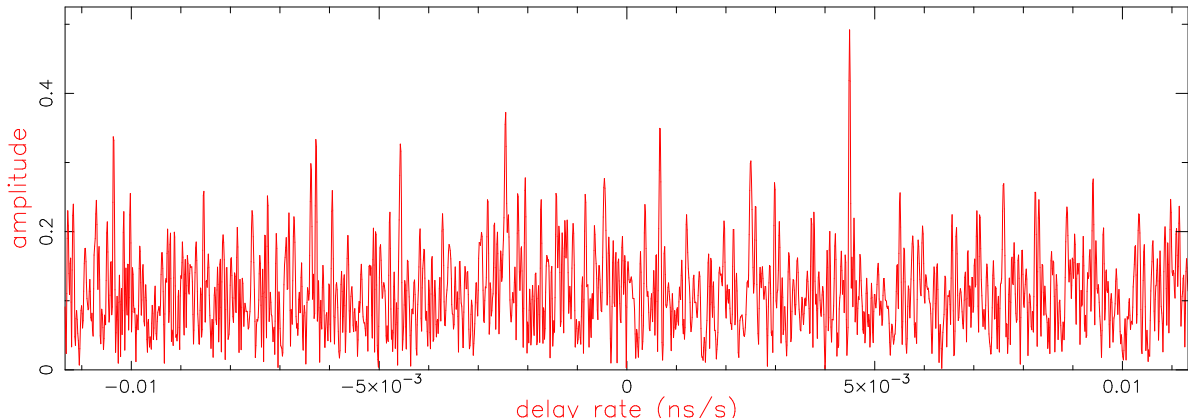
All



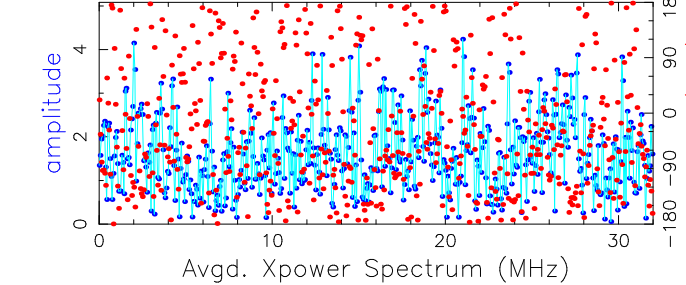
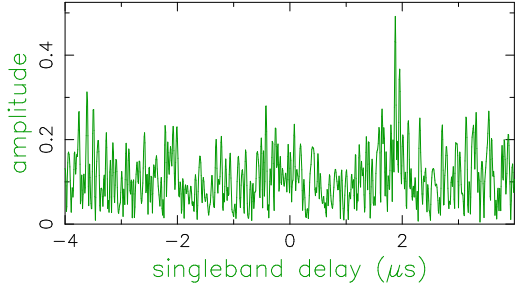
86204.00
-44.8
0.5
491.9
U/L 586/0
f 1000
p 1000
f:p 0:0
f:p 0:0
f 1000
p 1000
f W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.09847065237E+03	Apriori delay (usec)	1.09863576780E+03	Resid mbdelay (usec)	4.51835E-06	+/-	3.4E-03
Sband delay (usec)	1.09847064930E+03	Apriori clock (usec)	-1.6491962E+01	Resid sbdelay (usec)	-1.65119E-01	+/-	3.4E-03
Phase delay (usec)	1.09863576635E+03	Apriori clockrate (us/s)	1.0999990E-08	Resid phdelay (usec)	-1.44396E-06	+/-	7.2E-07
Delay rate (us/s)	3.34704977562E-03	Apriori rate (us/s)	3.34480456484E-03	Resid rate (us/s)	2.24521E-06	+/-	4.2E-09
Total phase (deg)	173.3	Apriori accel (us/s/s)	-7.63394504442E-06	Resid phase (deg)	159.6	+/-	22.4
ph/seg (deg)	RMS 92.0 Theor. 191.6	Amplitude	0.464 +/- 0.091	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	390.3 334.4	Search (2048X8)	0.449	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0 11.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.2 19.5	Inc. seg. avg.	0.297	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
f: az 89.4 el 32.4 pa -63.6	p: az 89.4 el 28.9 pa -59.3	Inc. frq. avg.	0.455	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
Control file: cf_1234_gmva	Input file: /Exps2/f191a/FRINGE/1234/No0007//fp..0QR3WR	u,v (fr/asec)	-29.828 -633.921	nlags:	512	ion window (TEC)	0.00 0.00
							simultaneous interpolator
							Output file: /Exps2/f191a/FRINGE/1234/No0007//fp.W.145.0QR3WR



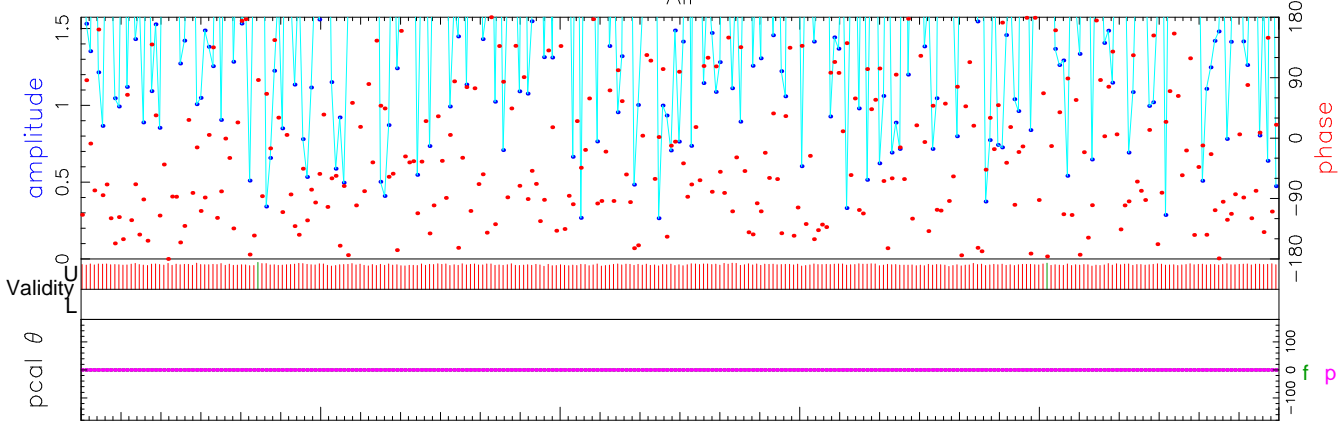
Fringe quality 0
SNR 5.5
Int time 268.810
Amp 0.525
Phase -78.6
PFD 9.9e-01
Delays (us)
SBD 1.874910
MBD 0.000006
Fringe rate (Hz) 0.386702
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



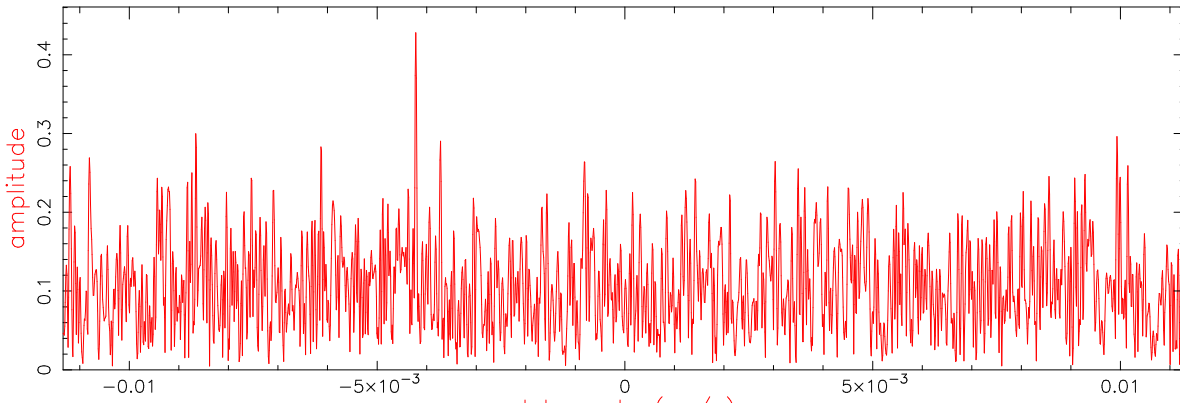
86204.00
-80.9
0.5
753.0
U/L 586/0
f 1000
p 1000
f:p 0:0
f:p 0:0
f 1000
p 1000
f W06UL
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

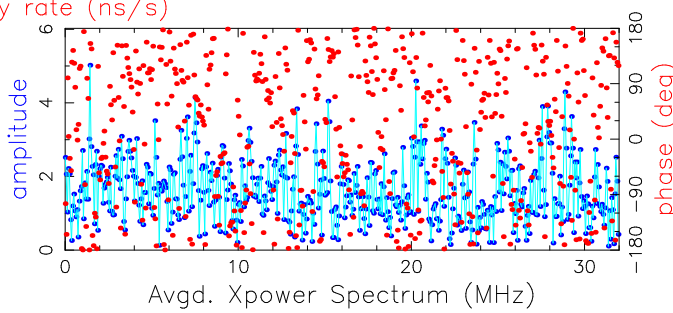
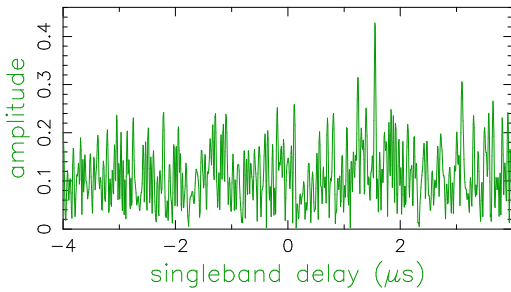
Group delay (usec)(sbd)	1.10051067489E+03	Apriori delay (usec)	1.09863576780E+03	Resid mbdelay (usec)	5.69561E-06	+/-	3.1E-03
Sband delay (usec)	1.10051067830E+03	Apriori clock (usec)	-1.6491962E+01	Resid sbdelay (usec)	1.87491E+00	+/-	3.1E-03
Phase delay (usec)	1.09863576519E+03	Apriori clockrate (us/s)	1.0999990E-08	Resid phdelay (usec)	-2.60880E-06	+/-	6.7E-07
Delay rate (us/s)	3.34929379249E-03	Apriori rate (us/s)	3.34480456484E-03	Resid rate (us/s)	4.48923E-06	+/-	3.9E-09
Total phase (deg)	-64.9	Apriori accel (us/s/s)	-7.63394504442E-06	Resid phase (deg)	-78.6	+/-	20.8

ph/seg (deg)	91.1	Theor.	177.9	Amplitude	0.525 +/- 0.095	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	352.3	Search (2048X8)	0.471	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.348	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.516	Inc. frq. avg.	0.516	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -29.828 -633.921 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fp.W.85.0QR3WR

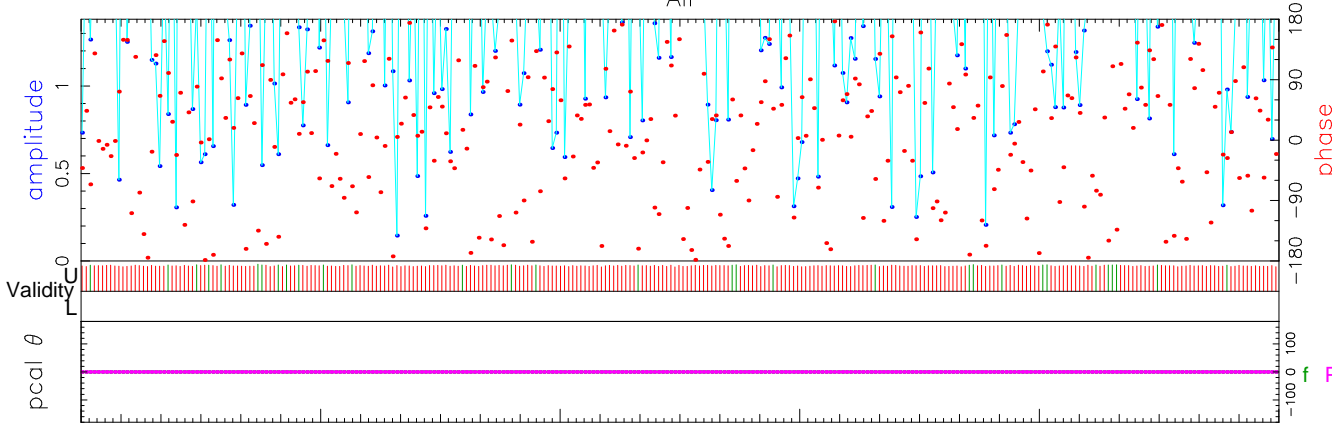


Fringe quality 0
SNR 5.0
Int time 278.323
Amp 0.461
Phase -18.3
PFD 1.0e+00
Delays (us)
SBD 1.549976
MBD -0.000007
Fringe rate (Hz)
-0.363361
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



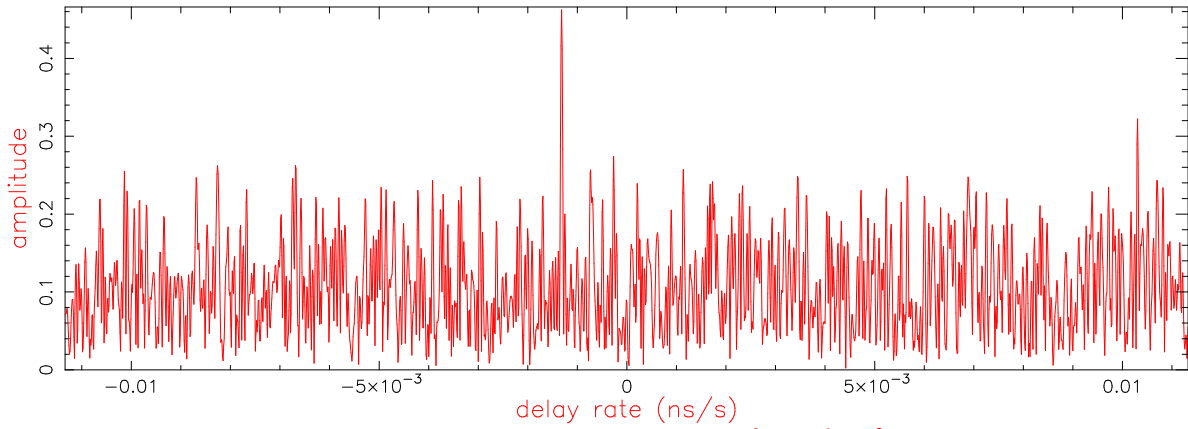
86204.00
53.4
0.5
711.4
U/L 586/0
f 1000
P 0
f:P 0:0
f:P 0:0
f 1000
P 1000
f W06UL
P W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

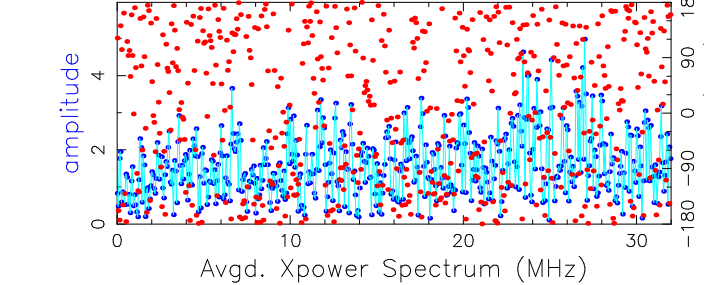
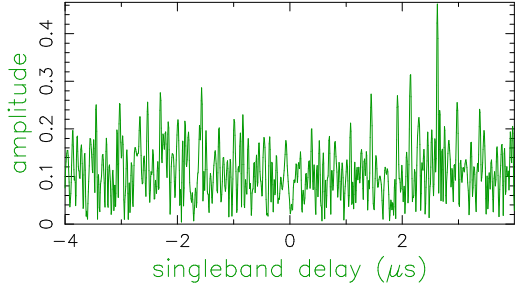
Group delay (usec)(sbd)	-4.47634290399E+03	Apriori delay (usec)	-4.47789288282E+03	Resid mbdelay (usec)	-7.24955E-06	+/-	3.5E-03
Sband delay (usec)	-4.47634290682E+03	Apriori clock (usec)	1.4890563E+01	Resid sbdelay (usec)	1.54998E+00	+/-	3.5E-03
Phase delay (usec)	-4.47789288110E+03	Apriori clockrate (us/s)	4.5300000E-07	Resid phdelay (usec)	1.72082E-06	+/-	7.5E-07
Delay rate (us/s)	1.88156512138E+00	Apriori rate (us/s)	1.88156933964E+00	Resid rate (us/s)	-4.21826E-06	+/-	4.3E-09
Total phase (deg)	-351.8	Apriori accel (us/s/s)	2.09475294758E-05	Resid phase (deg)	-18.3	+/-	23.1

ph/seg (deg)	92.6	Theor.	197.7	Amplitude	0.461 +/- 0.093	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	396.7	Search (2048X8)	0.426	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.284	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.6	Inc. frq. avg.	0.444	Inc. frq. avg.	0.444	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11196.227 -259.439 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fP.W.90.0QR3WR



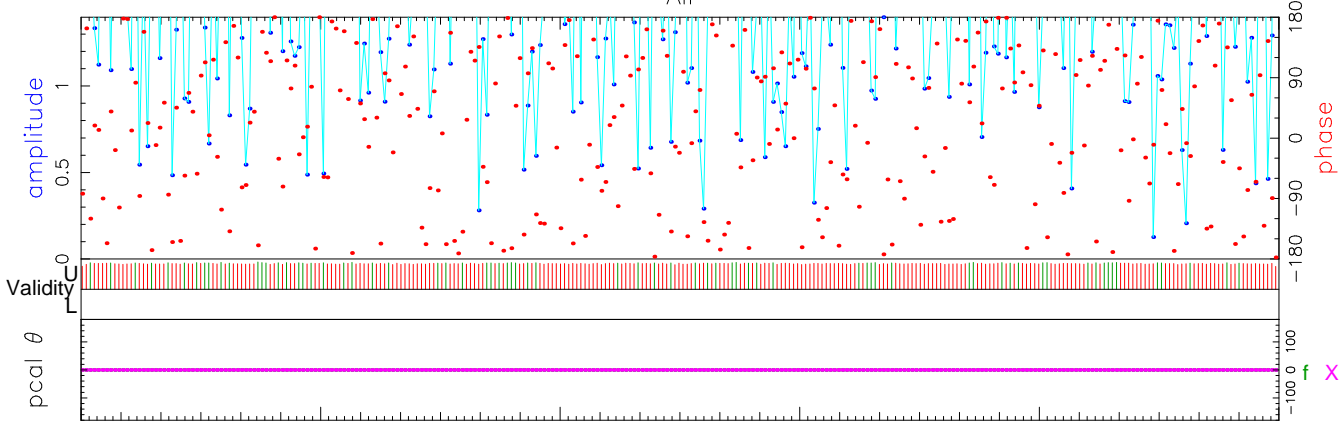
Fringe quality 0
SNR 5.3
Int time 280.962
Amp 0.466
Phase -193.2
PFD 1.0e+00
Delays (us)
SBD 2.623899
MBD -0.000007
Fringe rate (Hz)
-0.113248
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



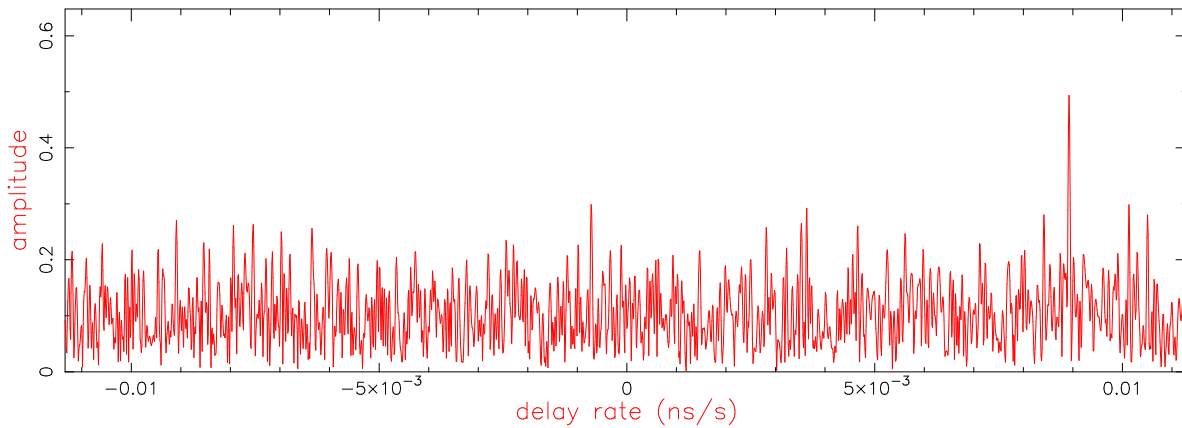
86204.00
141.5
0.5
848.9
U/L 586/0
f 1000
X 0
f:X 0:0
f:X 0:0
f 1000
X 1000
f W06UL
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.09919322296E+02	Apriori delay (usec)	3.07295425066E+02	Resid mbdelay (usec)	-6.53306E-06	+/-	3.2E-03
Sband delay (usec)	3.09919324566E+02	Apriori clock (usec)	-1.0255153E+01	Resid sbdelay (usec)	2.62390E+00	+/-	3.2E-03
Phase delay (usec)	3.07295429629E+02	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	4.56282E-06	+/-	7.0E-07
Delay rate (us/s)	1.77935584437E+00	Apriori rate (us/s)	1.77935715907E+00	Resid rate (us/s)	-1.31470E-06	+/-	4.0E-09
Total phase (deg)	-223.8	Apriori accel (us/s/s)	-1.21981002106E-05	Resid phase (deg)	-193.2	+/-	21.6

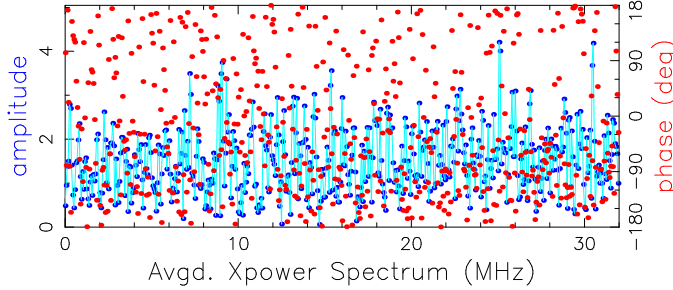
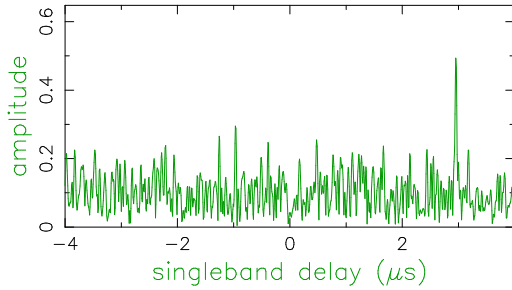
ph/seg (deg)	RMS 96.4	Theor. 184.7	Amplitude 0.466 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	361.3	322.3	Search (2048X8) 0.456	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	10.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.2	18.8	Inc. seg. avg. 0.298	Sample rate(MSamp/s): 64	ion window (TEC)	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.457	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

f: az 89.4 el 32.4 pa -63.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10629.522 -3060.148 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fX.W.116.0QR3WR



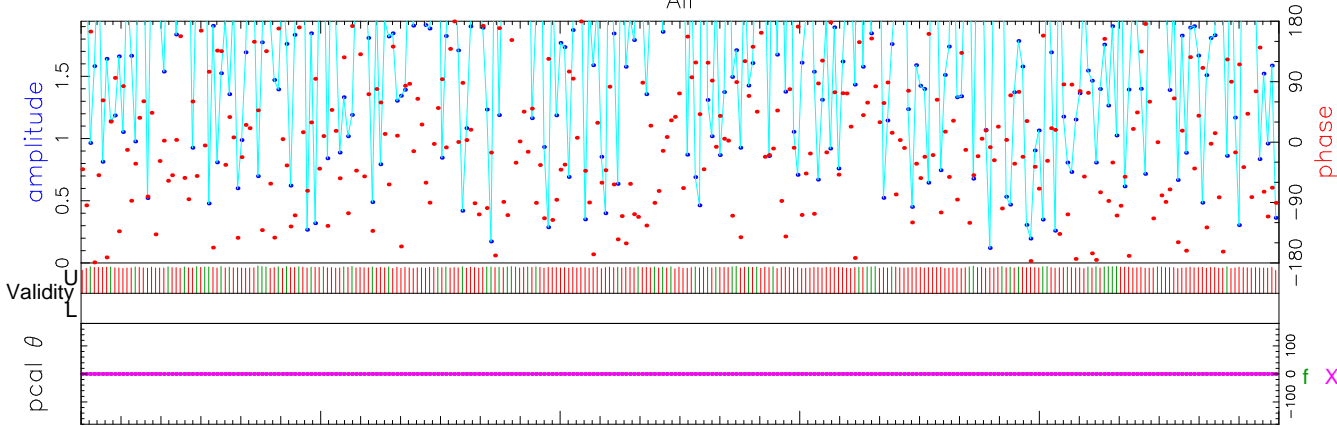
Fringe quality 0

SNR 5.7
Int time 280.952
Amp 0.648
Phase -41.6
PFD 8.2e-01
Delays (us)
SBD 2.954524
MBD 0.000004
Fringe rate (Hz)
0.768361
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-9.6
0.6
891.2
U/L 586/0
f 1000
X 0
f:X 0:0
f:X 0:0
f 1000
X 1000
f W06UR
X W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.10249944290E+02	Apriori delay (usec)	3.07295425066E+02	Resid mbdelay (usec)	4.35184E-06	+/-	3.0E-03
Sband delay (usec)	3.10249948566E+02	Apriori clock (usec)	-1.0255153E+01	Resid sbdelay (usec)	2.95452E+00	+/-	3.0E-03
Phase delay (usec)	3.07295424758E+02	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	-3.08453E-07	+/-	6.5E-07
Delay rate (us/s)	1.77936607898E+00	Apriori rate (us/s)	1.77935715907E+00	Resid rate (us/s)	8.91991E-06	+/-	3.8E-09
Total phase (deg)	-72.1	Apriori accel (us/s/s)	-1.21981002106E-05	Resid phase (deg)	-41.6	+/-	20.2

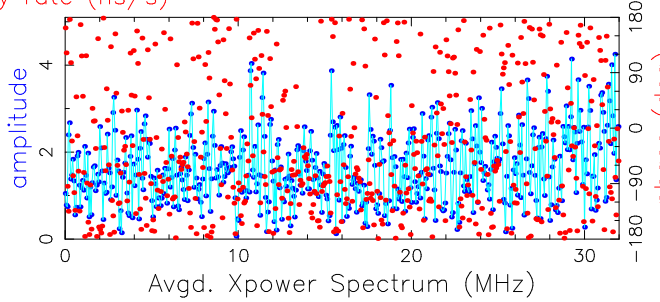
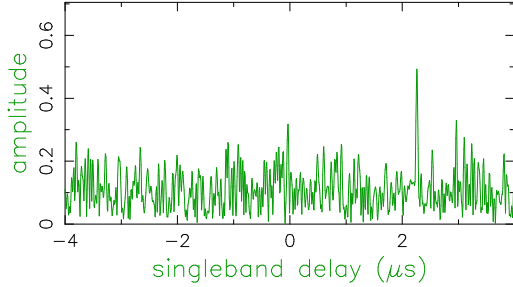
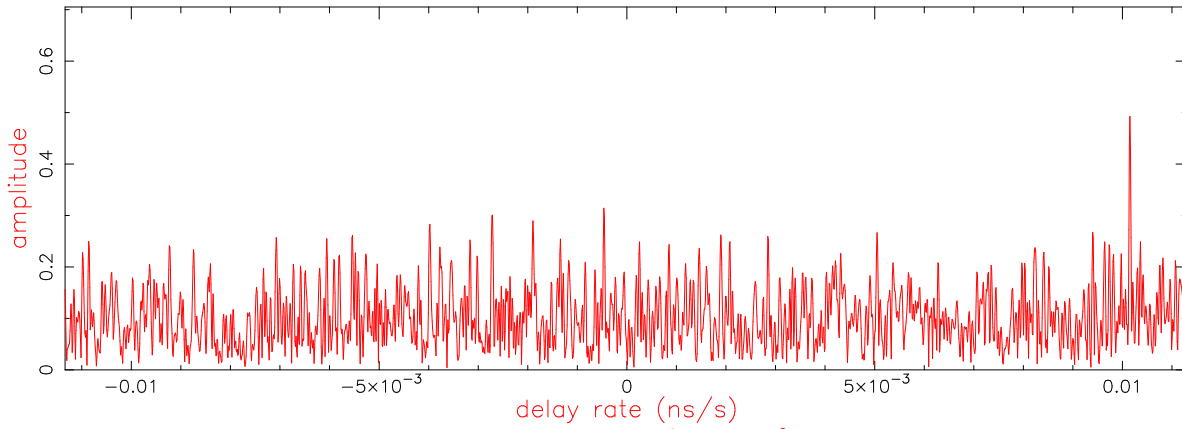
ph/seg (deg)	RMS 92.5	Theor. 172.9	Amplitude 0.648 +/- 0.114	Search (2048X8) 0.485	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	337.6	301.7	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.1	Inc. seg. avg. 0.439	0.439	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.3	17.6	Inc. frq. avg. 0.636	0.636	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 89.4 el 32.4 pa -63.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10629.522 -3060.148 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fX.W.132.0QR3WR

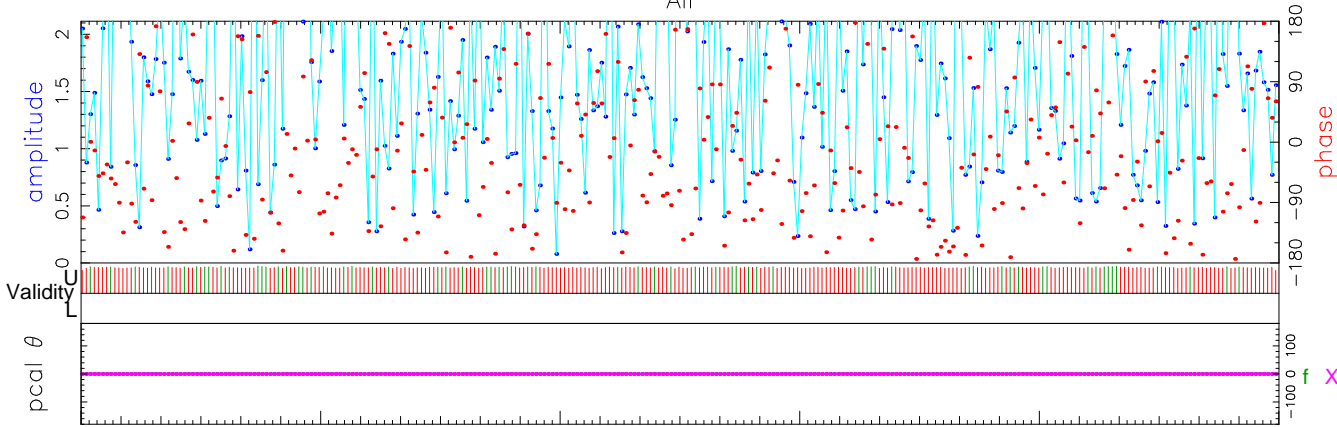
Fringe quality 0

SNR 5.7
Int time 280.962
Amp 0.705
Phase -286.3
PFD 8.3e-01
Delays (us)
SBD 2.259644
MBD 0.000007
Fringe rate (Hz)
0.874073
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



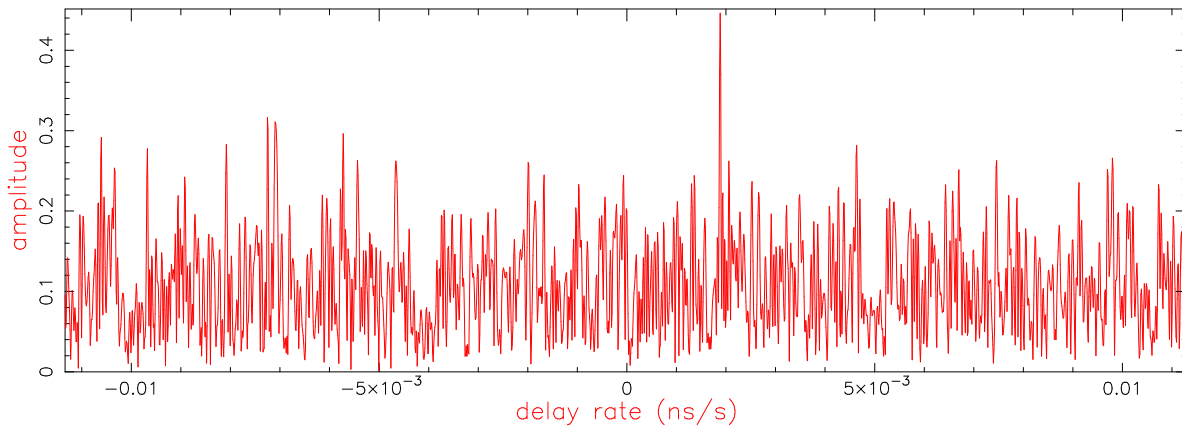
86204.00
-64.2
0.7
802.2
U/L 586/0
f 1000
X 0
f:X 0:0
f:X 0:0
f 1000
X 1000
f W06UL
X W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.09555072234E+02	Apriori delay (usec)	3.07295425066E+02	Resid mbdelay (usec)	7.24403E-06	+/-	3.0E-03
Sband delay (usec)	3.09555069066E+02	Apriori clock (usec)	-1.0255153E+01	Resid sbdelay (usec)	2.25964E+00	+/-	3.0E-03
Phase delay (usec)	3.07295422997E+02	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	-2.06932E-06	+/-	6.5E-07
Delay rate (us/s)	1.77936730619E+00	Apriori rate (us/s)	1.77935715907E+00	Resid rate (us/s)	1.01471E-05	+/-	3.8E-09
Total phase (deg)	-316.8	Apriori accel (us/s/s)	-1.21981002106E-05	Resid phase (deg)	-286.3	+/-	20.2

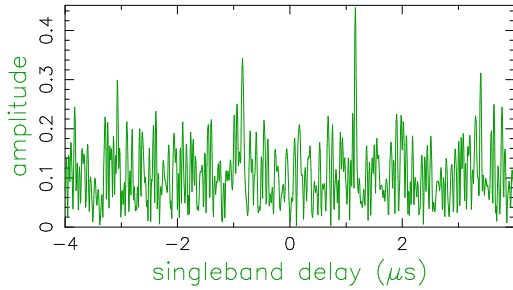
ph/seg (deg)	RMS 90.3	Theor. 173.0	Amplitude 0.705 +/- 0.124	Search (2048X8)	0.473	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	319.6	301.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000			
ph/frq (deg)	0.0	10.1	Inc. seg. avg.	0.443	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.5	17.6	Inc. frq. avg.	0.691	Sample rate(MSamp/s): 64	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 89.4 el 32.4 pa -63.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10629.522 -3060.148 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fX.W.81.0QR3WR

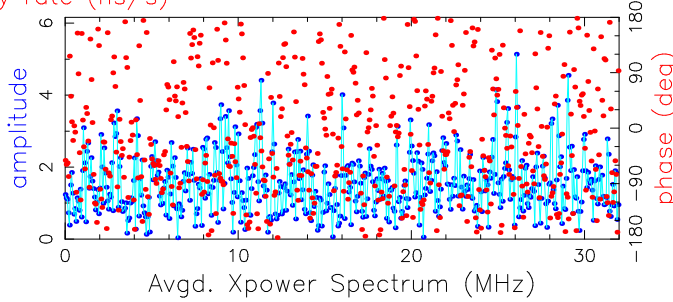


Fringe quality 0

SNR 5.1
Int time 280.952
Amp 0.451
Phase -14.5
PFD 1.0e+00
Delays (us)
SBD 1.164444
MBD 0.000005
Fringe rate (Hz)
0.162086
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

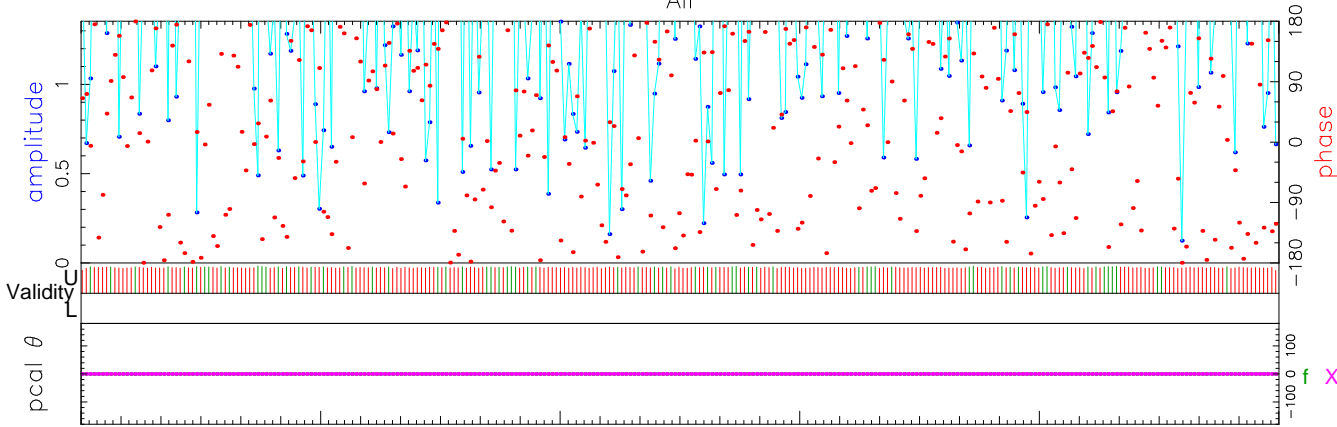


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
174.1
0.5
662.1
U/L 586/0
f 1000
X 0
f:X 0:0
f:X 0:0
f 1000
X 1000
f W06UR
X W06UR

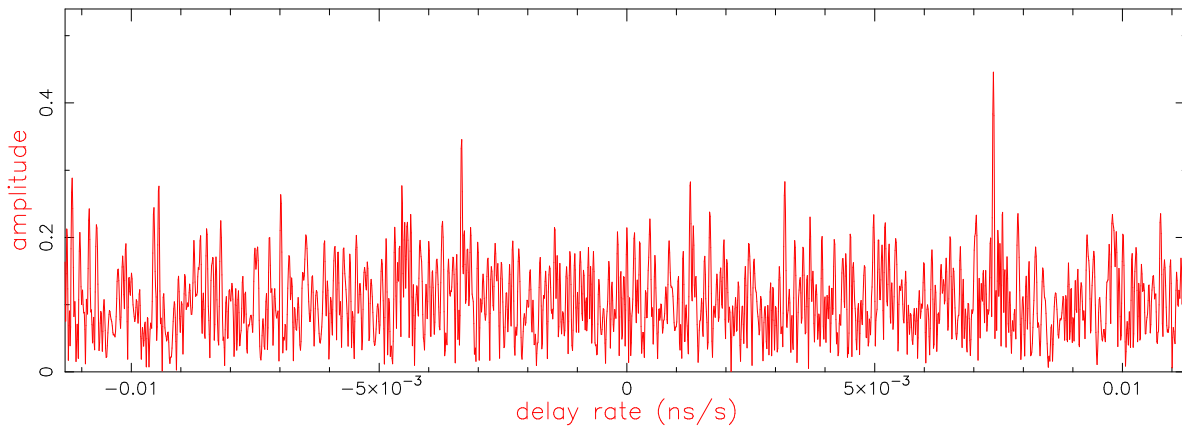
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.08459865231E+02	Apriori delay (usec)	3.07295425066E+02	Resid mbdelay (usec)	4.63997E-06	+/-	3.4E-03
Sband delay (usec)	3.08459869066E+02	Apriori clock (usec)	-1.0255153E+01	Resid sbdelay (usec)	1.16444E+00	+/-	3.4E-03
Phase delay (usec)	3.07295430680E+02	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	5.61373E-06	+/-	7.2E-07
Delay rate (us/s)	1.77935904074E+00	Apriori rate (us/s)	1.77935715907E+00	Resid rate (us/s)	1.88166E-06	+/-	4.2E-09
Total phase (deg)	-45.0	Apriori accel (us/s/s)	-1.21981002106E-05	Resid phase (deg)	-14.5	+/-	22.4

ph/seg (deg)	94.0	Theor.	191.8	Amplitude	0.451 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	379.9	Search (2048X8)	0.442	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.280	Inc. seg. avg.	0.280	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	0.443	Inc. frq. avg.	0.443	Sample rate (MSamp/s):	64	mb window (us)	-0.000 0.000

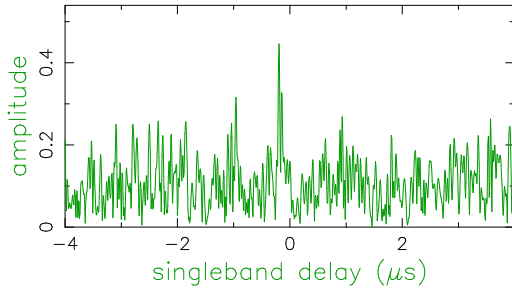
f: az 89.4 el 32.4 pa -63.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10629.522 -3060.148 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fX.W.97.0QR3WR

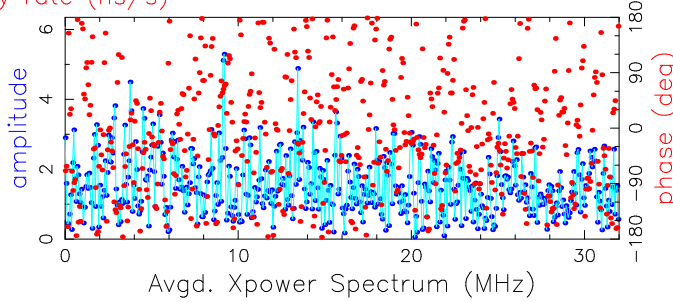


Fringe quality 0

SNR 5.0
Int time 267.417
Amp 0.540
Phase 75.4
PFD 1.0e+00
Delays (us)
SBD -0.192860
MBD 0.000005
Fringe rate (Hz)
0.636183
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

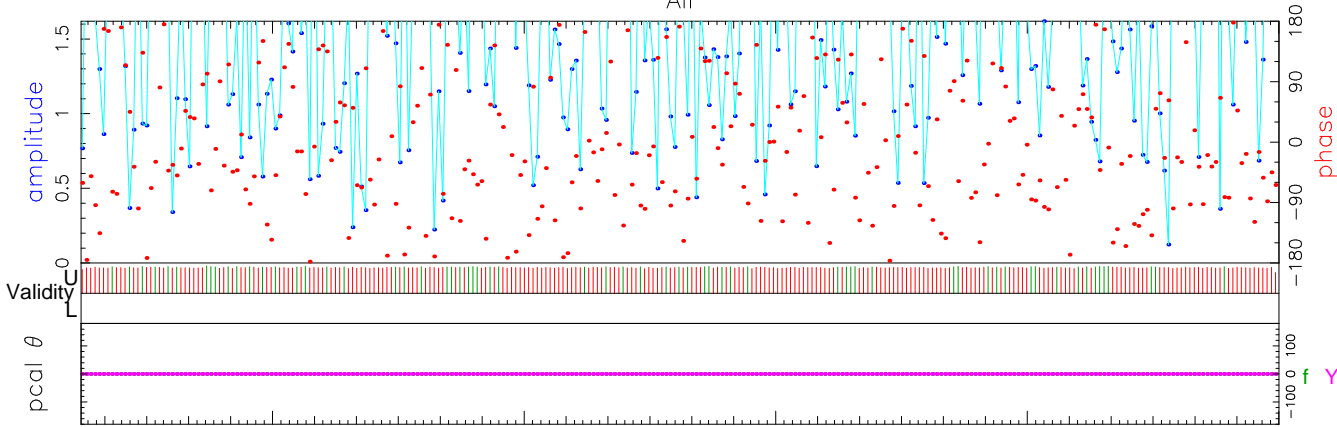


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



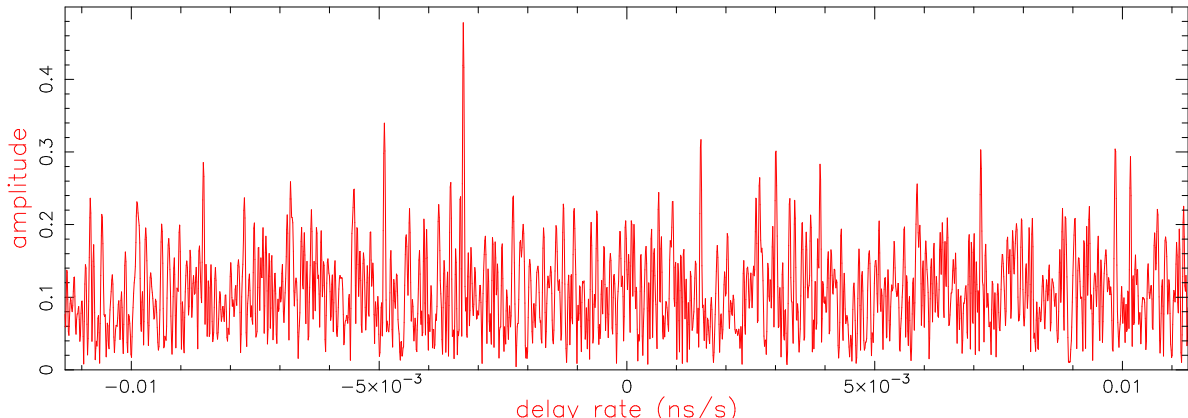
86204.00
-48.3
0.5
488.3
U/L 558/0
f 1000
Y 0
f:Y 0:0
f:Y 0:0
f 1000
Y 1000
f W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

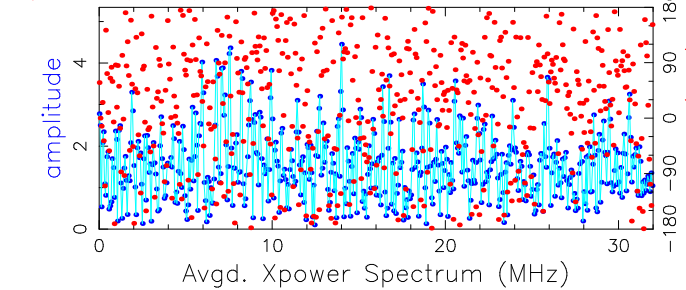
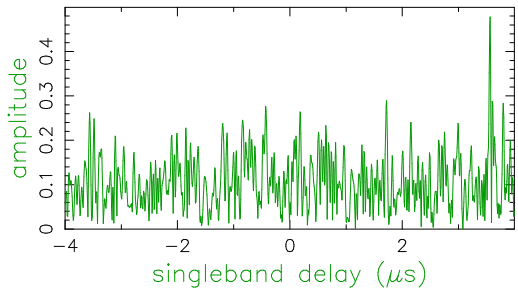
Group delay (usec)(sbd)	-4.11453824499E+03	Apriori delay (usec)	-4.11434538234E+03	Resid mbdelay (usec)	5.42972E-06	+/-	3.4E-03
Sband delay (usec)	-4.11453824284E+03	Apriori clock (usec)	7.7918730E+00	Resid sbdelay (usec)	-1.92860E-01	+/-	3.4E-03
Phase delay (usec)	-4.11434538389E+03	Apriori clockrate (us/s)	-3.7000012E-08	Resid phdelay (usec)	-1.55725E-06	+/-	7.3E-07
Delay rate (us/s)	1.85001323756E+00	Apriori rate (us/s)	1.85000585212E+00	Resid rate (us/s)	7.38545E-06	+/-	4.4E-09
Total phase (deg)	351.0	Apriori accel (us/s/s)	1.74974602562E-05	Resid phase (deg)	75.4	+/-	22.8

ph/seg (deg)	RMS 93.0	Theor. 190.0	Amplitude 0.540 +/- 0.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	347.1	331.7	Search (2048X8) 0.445	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	11.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	1.0	19.9	Inc. seg. avg. 0.324	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.524	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

f: az 89.4 el 32.4 pa -63.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11012.545 -737.929 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fY.W.105.0QR3WR

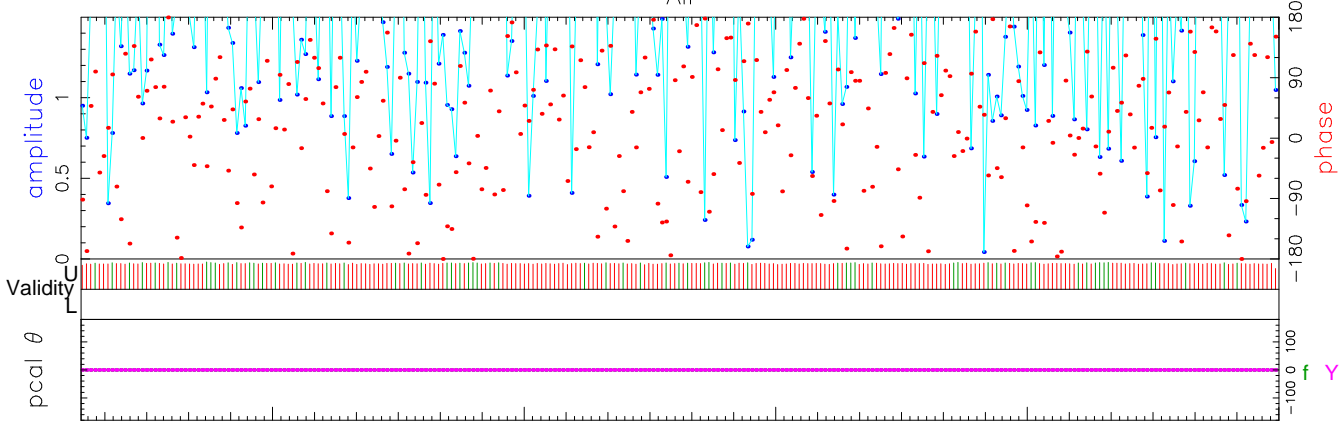


Fringe quality 0
SNR 5.4
Int time 267.421
Amp 0.500
Phase -254.0
PFD 1.0e+00
Delays (us)
SBD 3.560267
MBD -0.000006
Fringe rate (Hz)
-0.284298
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

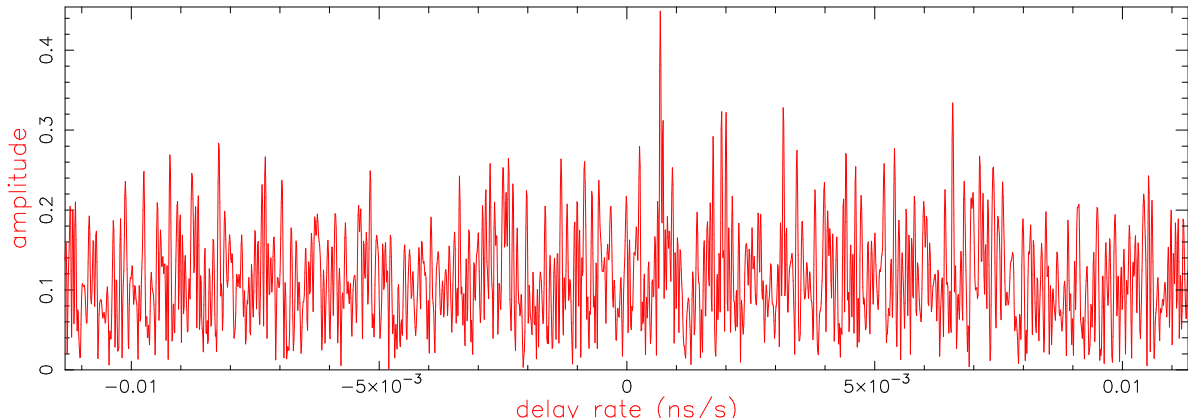
Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



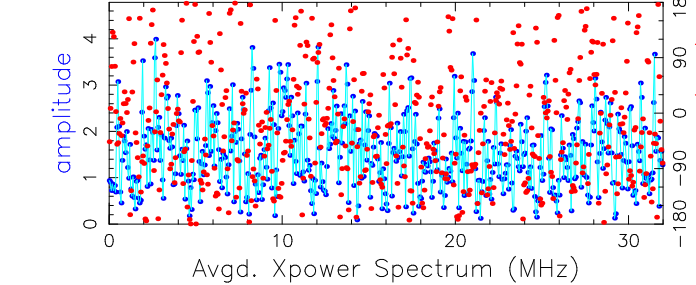
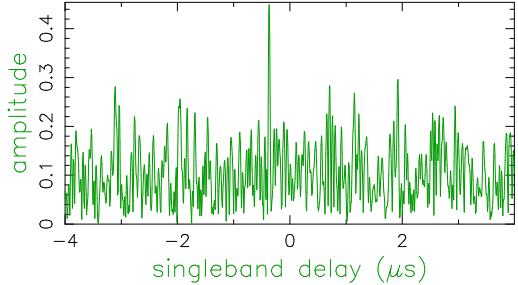
86204.00
54.8
0.5
968.7
U/L 558/0
f 1000
Y 0
f:Y 0:0
f:Y 0:0
f 1000
Y 1000
f W06UL
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.11078511296E+03	Apriori delay (usec)	-4.11434538234E+03	Resid mbdelay (usec)	-6.24621E-06	+/-	3.2E-03
Sband delay (usec)	-4.11078511484E+03	Apriori clock (usec)	7.7918730E+00	Resid sbdelay (usec)	3.56027E+00	+/-	3.2E-03
Phase delay (usec)	-4.11434538057E+03	Apriori clockrate (us/s)	-3.7000012E-08	Resid phdelay (usec)	1.76698E-06	+/-	6.8E-07
Delay rate (us/s)	1.85000255170E+00	Apriori rate (us/s)	1.85000585212E+00	Resid rate (us/s)	-3.30041E-06	+/-	4.2E-09
Total phase (deg)	-338.4	Apriori accel (us/s/s)	1.74974602562E-05	Resid phase (deg)	-254.0	+/-	21.2
ph/seg (deg)	RMS 91.7	Theor. 177.4	Amplitude 0.500 +/- 0.093	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000 4.000
amp/seg (%)	340.3	309.6	Search (2048X8) 0.476	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000 0.000
ph/frq (deg)	0.0	10.6	Interp. 0.000	Bits/sample: 2x2	ion window (TEC)	-0.011 0.011	
amp/frq (%)	1.0	18.5	Inc. seg. avg. 0.329	Sample rate(MSamp/s): 64	nlags: 512	t_cohere infinite	
			Inc. frq. avg. 0.487	Data rate(Mb/s): 128			
f: az 89.4 el 32.4 pa -63.6	Y: az 246.0 el 48.3 pa 46.5	u,v (fr/asec)	-11012.545 -737.929	simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps2/f191a/FRINGE/1234/No0007//fY..0QR3WR	Output file: /Exps2/f191a/FRINGE/1234/No0007//fY.W.120.0QR3WR					



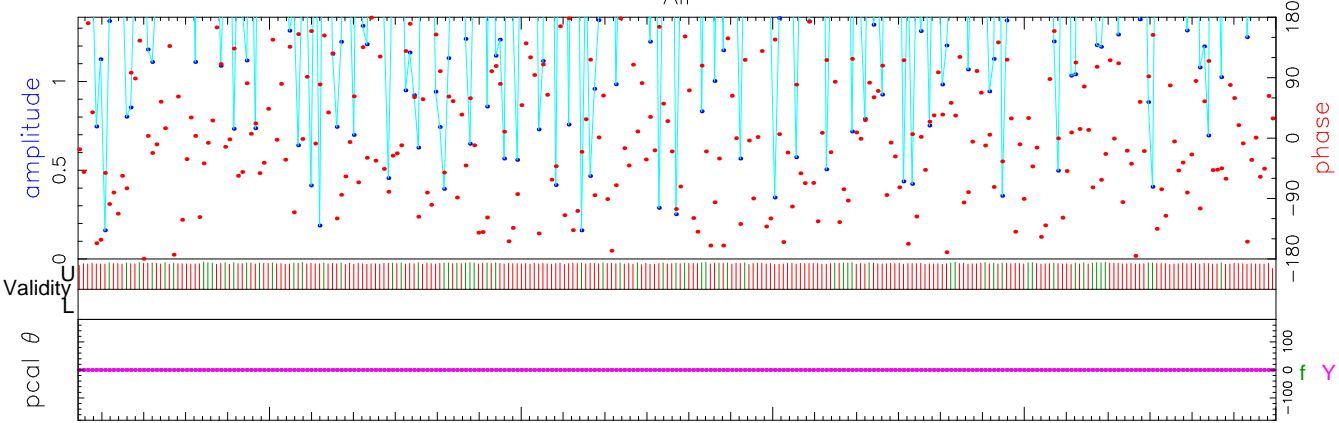
Fringe quality 0
SNR 5.1
Int time 267.417
Amp 0.454
Phase 220.4
PFD 1.0e+00
Delays (us)
SBD -0.369637
MBD 0.000007
Fringe rate (Hz)
0.057671
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



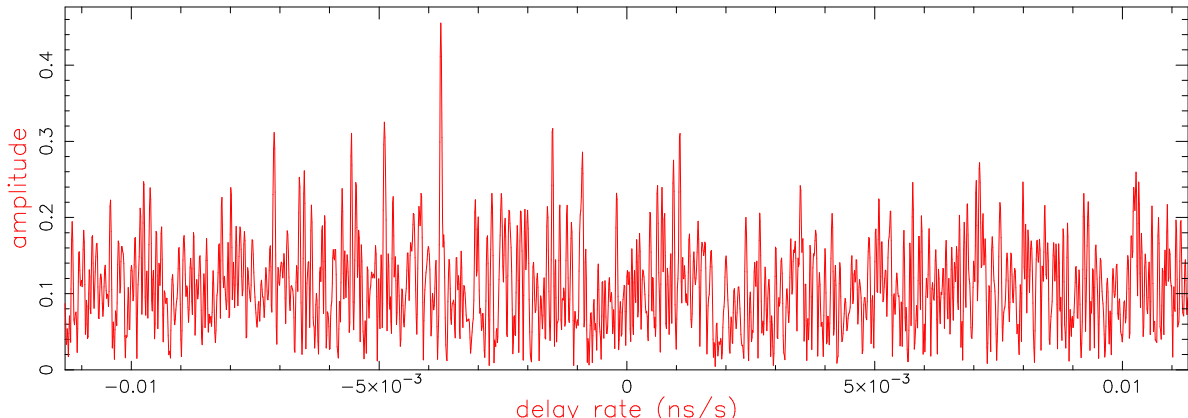
86204.00
-16.3
0.4
465.7
U/L 558/0
f 1000
Y 0
f:Y 0:0
f:Y 0:0
f 1000
Y 1000
f W06UR
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

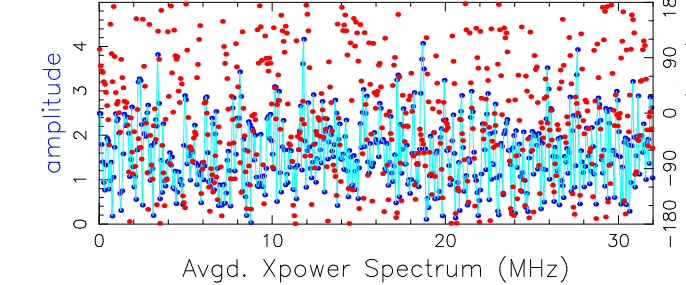
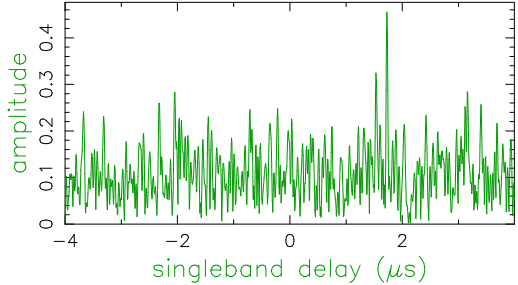
Group delay (usec)(sbd)	-4.11471502195E+03	Apriori delay (usec)	-4.11434538234E+03	Resid mbdelay (usec)	6.80247E-06	+/-	3.4E-03
Sband delay (usec)	-4.11471501934E+03	Apriori clock (usec)	7.7918730E+00	Resid sbdelay (usec)	-3.69637E-01	+/-	3.4E-03
Phase delay (usec)	-4.11434538286E+03	Apriori clockrate (us/s)	-3.7000012E-08	Resid phdelay (usec)	-5.24498E-07	+/-	7.3E-07
Delay rate (us/s)	1.85000652162E+00	Apriori rate (us/s)	1.85000585212E+00	Resid rate (us/s)	6.69500E-07	+/-	4.4E-09
Total phase (deg)	136.0	Apriori accel (us/s/s)	1.74974602562E-05	Resid phase (deg)	220.4	+/-	22.6

ph/seg (deg)	RMS 91.8	Theor. 188.8	Amplitude 0.454 +/- 0.090	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	400.2	329.5	Search (2048X8) 0.428	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	11.3	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	1.0	19.7	Inc. seg. avg. 0.305	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.441	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

f: az 89.4 el 32.4 pa -63.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11012.545 -737.929 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fY.W.130.0QR3WR



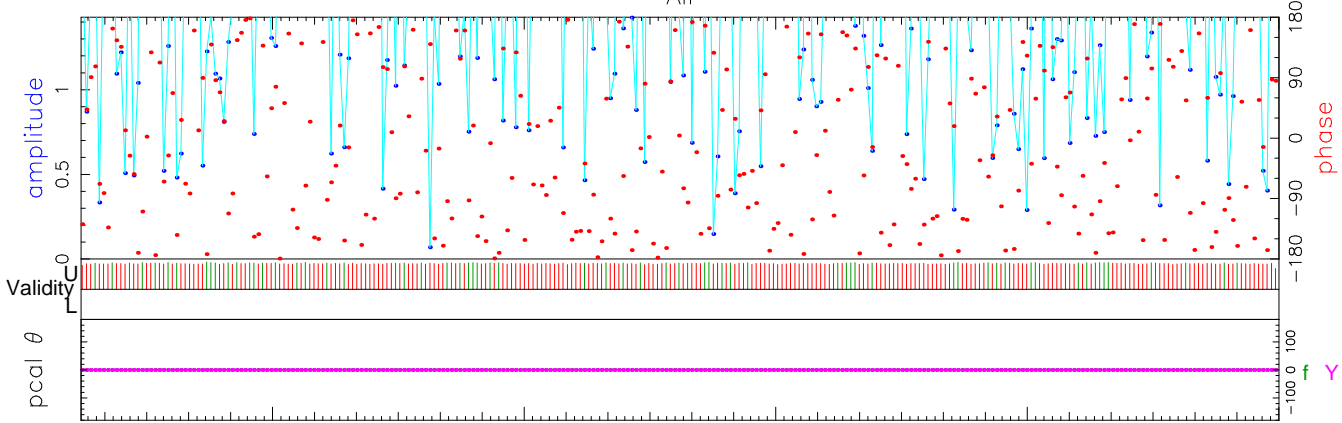
Fringe quality 0
SNR 5.1
Int time 267.421
Amp 0.476
Phase -323.8
PFD 1.0e+00
Delays (us)
SBD 1.726220
MBD -0.000005
Fringe rate (Hz)
-0.323206
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174159
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-151.4
0.5
734.0
U/L 558/0
f 1000
Y 0
f:Y 0:0
f:Y 0:0
f 1000
Y 1000
f W06UL
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.11261915653E+03	Apriori delay (usec)	-4.11434538234E+03	Resid mbdelay (usec)	-4.99281E-06	+/-	3.4E-03
Sband delay (usec)	-4.11261916184E+03	Apriori clock (usec)	7.7918730E+00	Resid sbdelay (usec)	1.72622E+00	+/-	3.4E-03
Phase delay (usec)	-4.11434538722E+03	Apriori clockrate (us/s)	-3.7000012E-08	Resid phdelay (usec)	-4.88311E-06	+/-	7.3E-07
Delay rate (us/s)	1.85000210001E+00	Apriori rate (us/s)	1.85000585212E+00	Resid rate (us/s)	-3.75211E-06	+/-	4.4E-09
Total phase (deg)	-48.2	Apriori accel (us/s/s)	1.74974602562E-05	Resid phase (deg)	-323.8	+/-	22.5

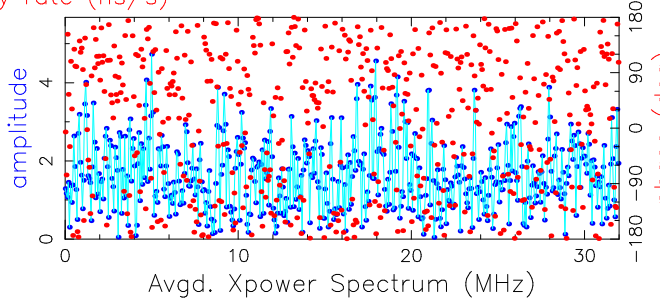
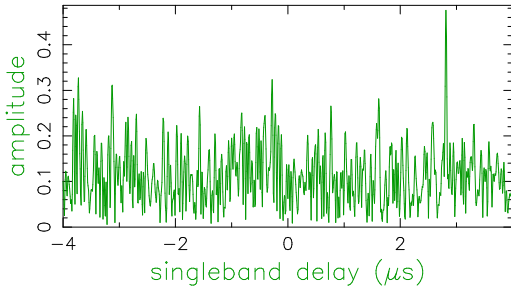
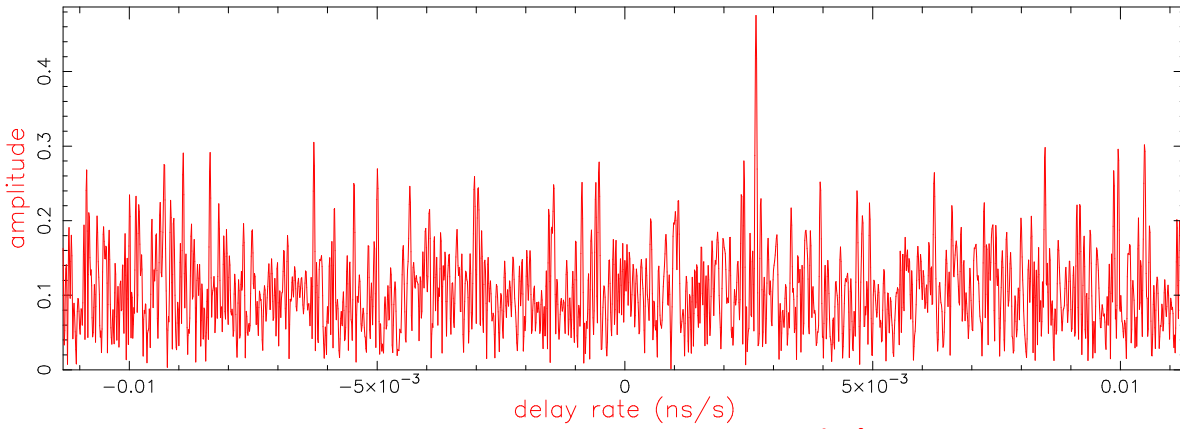
ph/seg (deg)	92.5	Theor.	188.1	Amplitude	0.476 +/- 0.094	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	383.3	Search (2048X8)	0.455	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.309	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.467	Inc. frq. avg.	0.467	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

f: az 89.4 el 32.4 pa -63.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11012.545 -737.929 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fY.W.87.0QR3WR

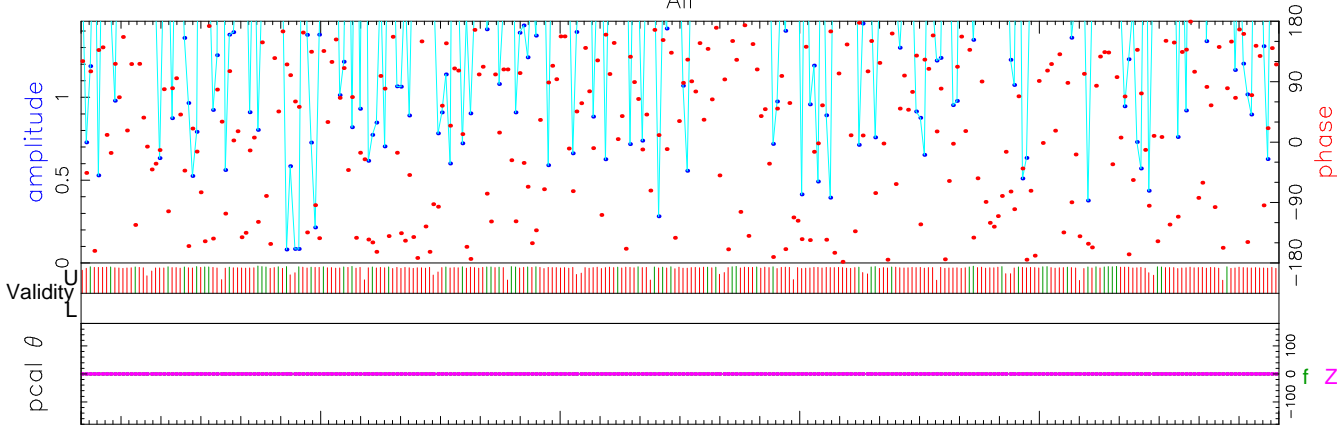
Fringe quality 0

SNR 5.4
Int time 273.593
Amp 0.487
Phase -213.5
PFD 1.0e+00
Delays (us)
SBD 2.811759
MBD 0.000007
Fringe rate (Hz)
0.227463
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
129.2
0.5
872.9
U/L 586/0
f 1000
Z 0
f:Z 0:0
f:Z 0:0
f 1000
Z 1000
f W06UR
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

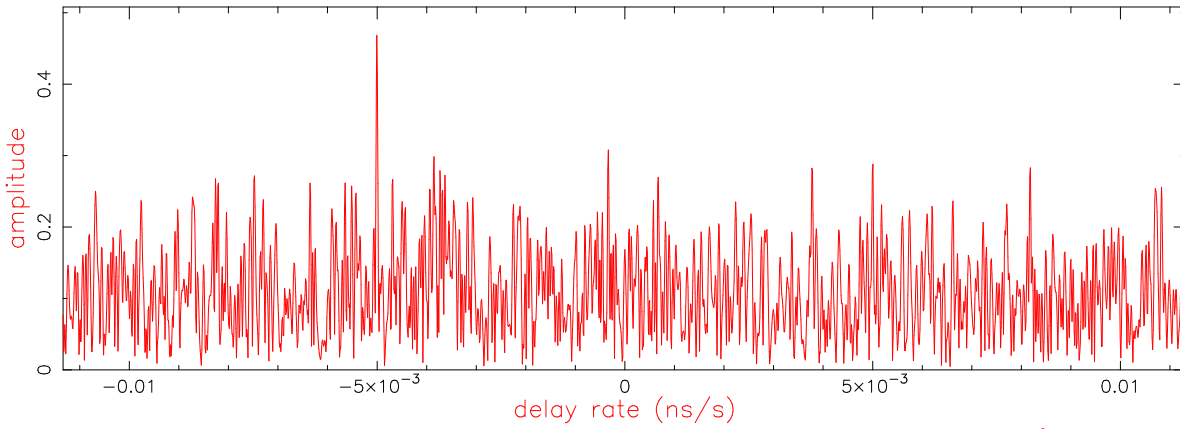
Group delay (usec)(sbd)	2.61396497677E+03	Apriori delay (usec)	2.61115322065E+03	Resid mbdelay (usec)	7.23897E-06	+/-	3.2E-03
Sband delay (usec)	2.61396497915E+03	Apriori clock (usec)	1.4666640E+01	Resid sbdelay (usec)	2.81176E+00	+/-	3.2E-03
Phase delay (usec)	2.61115322482E+03	Apriori clockrate (us/s)	-3.9399999E-07	Resid phdelay (usec)	4.16525E-06	+/-	6.9E-07
Delay rate (us/s)	1.80502487514E+00	Apriori rate (us/s)	1.80502223452E+00	Resid rate (us/s)	2.64062E-06	+/-	4.0E-09
Total phase (deg)	-59.8	Apriori accel (us/s/s)	-2.51241428101E-05	Resid phase (deg)	-213.5	+/-	21.3

ph/seg (deg)	RMS 90.6	Theor. 182.3	Amplitude 0.487 +/- 0.090	Search (2048X8) 0.457	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	355.4	318.1	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.6	Inc. seg. avg. 0.315	0.315	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1	18.6	Inc. frq. avg. 0.478	0.478	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

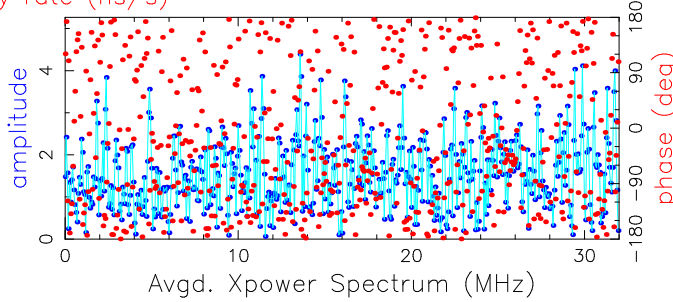
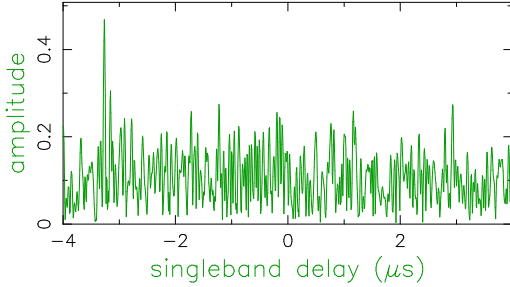
f: az 89.4 el 32.4 pa -63.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10799.010 -3572.966 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fZ.W.102.0QR3WR

Fringe quality 0



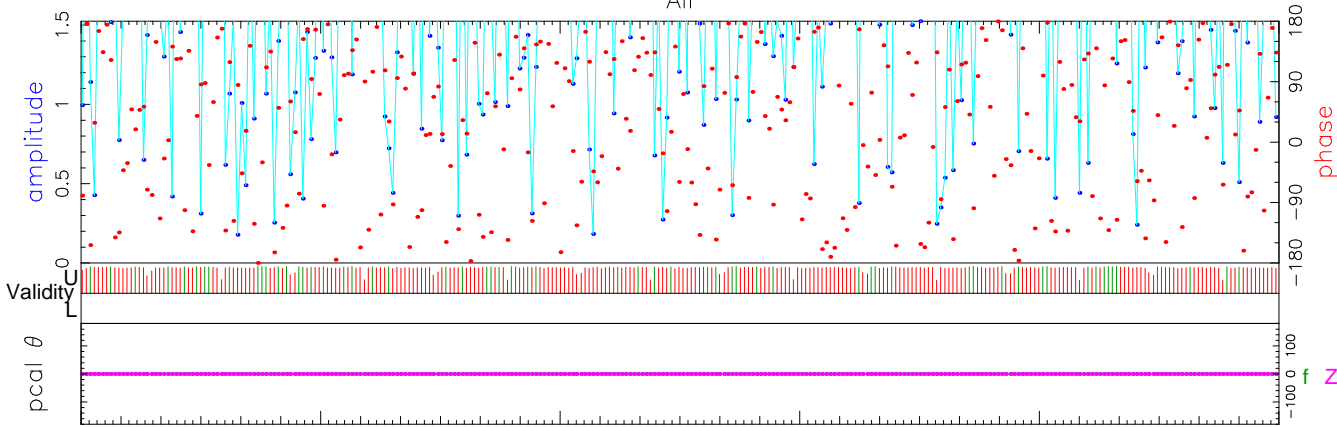
SNR 5.3
Int time 273.603
Amp 0.508
Phase 128.7
PFD 1.0e+00
Delays (us)
SBD -3.265441
MBD -0.000007
Fringe rate (Hz)
-0.430889
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
133.2
0.5
95.0
U/L 586/0
f 1000
Z 0
f:Z 0:0
f:Z 0:0
f 1000
Z 1000
f W06UL
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

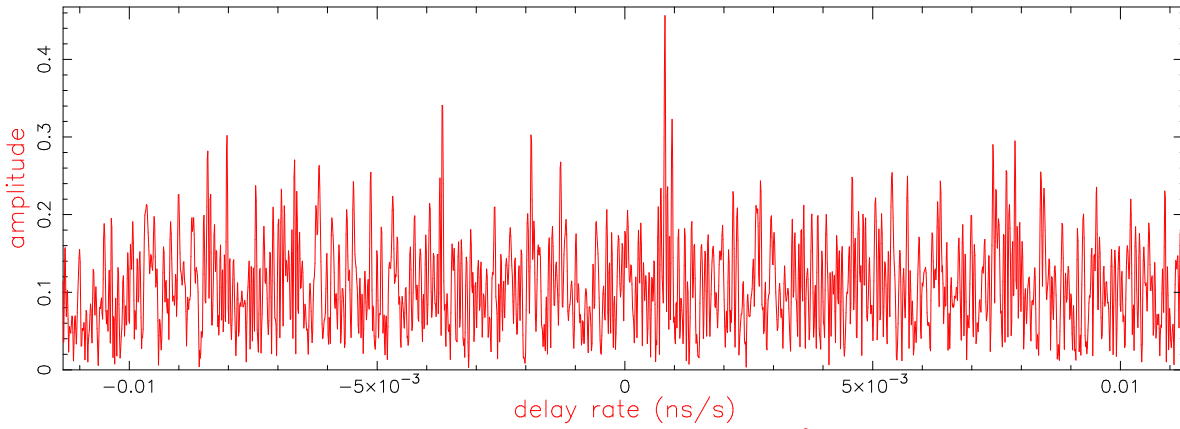
Group delay (usec)(sbd)	2.60788778489E+03	Apriori delay (usec)	2.61115322065E+03	Resid mbdelay (usec)	-7.23983E-06	+/-	3.3E-03
Sband delay (usec)	2.60788777965E+03	Apriori clock (usec)	1.4666640E+01	Resid sbdelay (usec)	-3.26544E+00	+/-	3.3E-03
Phase delay (usec)	2.61115322495E+03	Apriori clockrate (us/s)	-3.9399999E-07	Resid phdelay (usec)	4.29670E-06	+/-	7.0E-07
Delay rate (us/s)	1.80501723233E+00	Apriori rate (us/s)	1.80502223452E+00	Resid rate (us/s)	-5.00219E-06	+/-	4.0E-09
Total phase (deg)	282.4	Apriori accel (us/s/s)	-2.51241428101E-05	Resid phase (deg)	128.7	+/-	21.6

ph/seg (deg)	92.6	Theor.	185.1	Amplitude	0.508 +/- 0.096	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	388.7	Search (2048X8)	0.463	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.344	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.499	Inc. frq. avg.	0.499	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

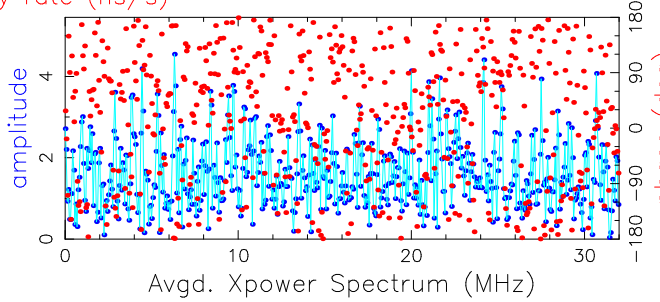
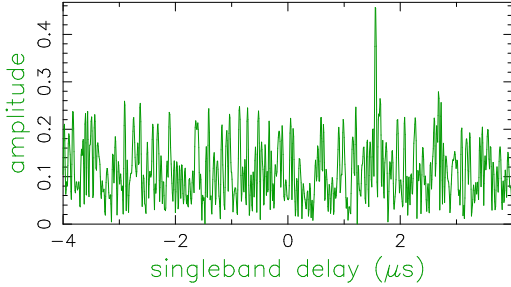
f: az 89.4 el 32.4 pa -63.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10799.010 -3572.966 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fZ.W.115.0QR3WR

Fringe quality 0

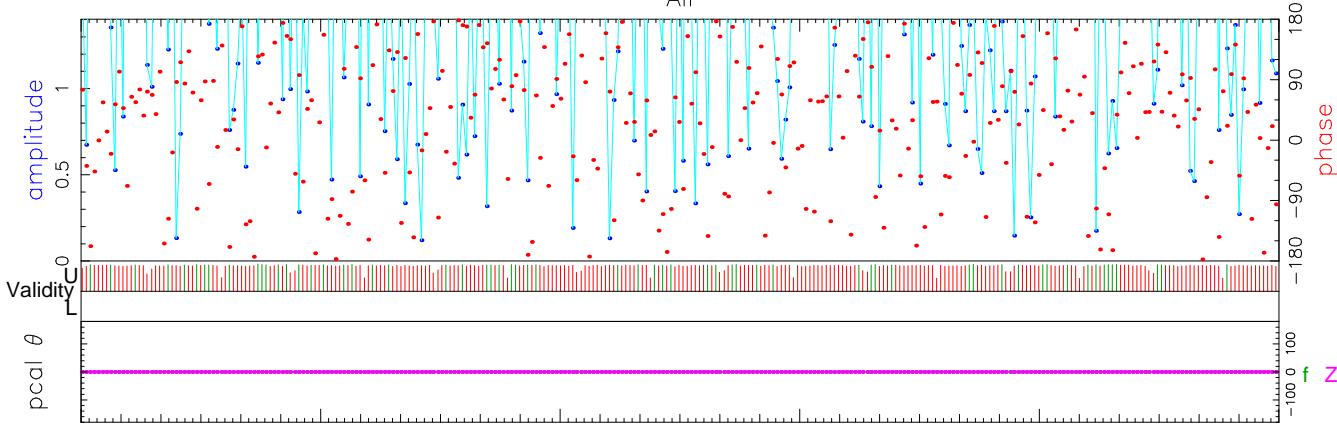


SNR 5.3
Int time 273.593
Amp 0.468
Phase -192.5
PFD 1.0e+00
Delays (us)
SBD 1.558452
MBD 0.000004
Fringe rate (Hz)
0.069844
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
74.1
0.5
712.5
U/L 586/0
f 1000
Z 0
f:Z 0:0
f:Z 0:0
f 1000
Z 1000
f W06UR
Z W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

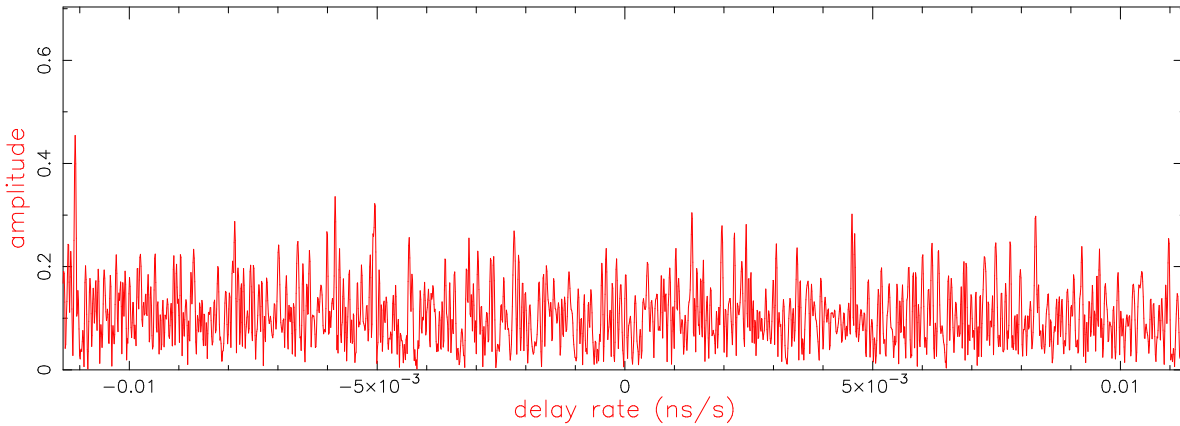
Group delay (usec)(sbd)	2.61271166778E+03	Apriori delay (usec)	2.61115322065E+03	Resid mbdelay (usec)	4.36142E-06	+/-	3.3E-03
Sband delay (usec)	2.61271167265E+03	Apriori clock (usec)	1.4666640E+01	Resid sbdelay (usec)	1.55845E+00	+/-	3.3E-03
Phase delay (usec)	2.61115322304E+03	Apriori clockrate (us/s)	-3.9399999E-07	Resid phdelay (usec)	2.38794E-06	+/-	7.0E-07
Delay rate (us/s)	1.80502304534E+00	Apriori rate (us/s)	1.80502223452E+00	Resid rate (us/s)	8.10819E-07	+/-	4.0E-09
Total phase (deg)	-38.7	Apriori accel (us/s/s)	-2.51241428101E-05	Resid phase (deg)	-192.5	+/-	21.7

ph/seg (deg)	RMS 90.1	Theor. 185.9	Amplitude 0.468 +/- 0.089	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	371.9	324.4	Search (2048X8) 0.450	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	10.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	2.2	19.0	Inc. seg. avg. 0.298	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.449	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

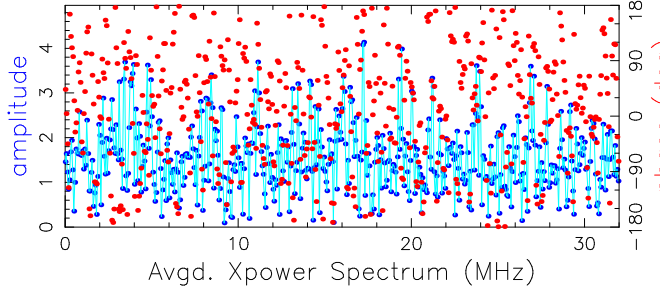
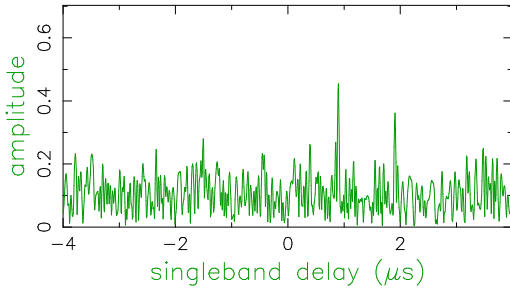
f: az 89.4 el 32.4 pa -63.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10799.010 -3572.966 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fZ.W.125.0QR3WR

Fringe quality 0

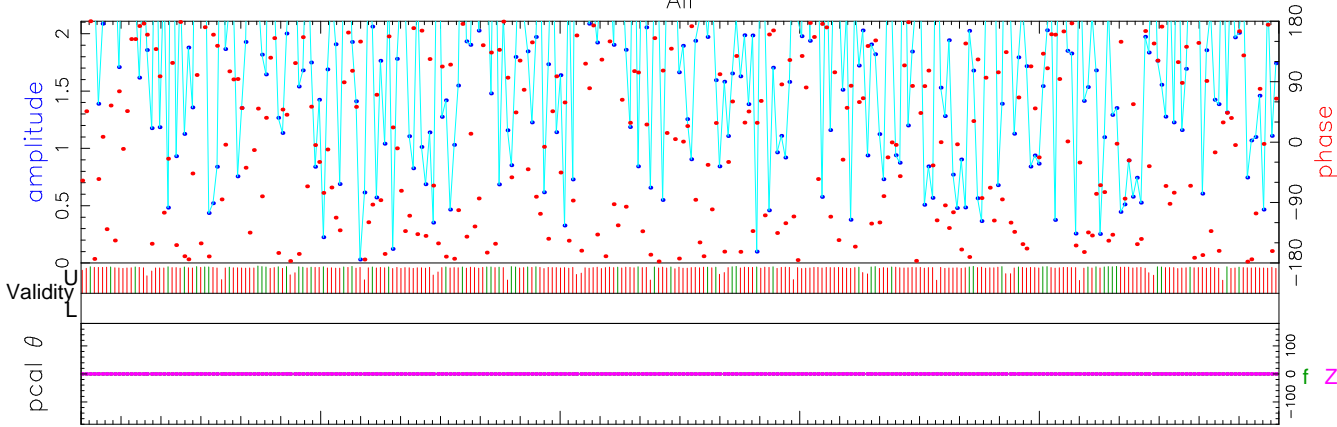


SNR 5.2
Int time 273.603
Amp 0.703
Phase -324.2
PFD 1.0e+00
Delays (us)
SBD 0.896465
MBD -0.000004
Fringe rate (Hz)
-0.954894
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174200
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
170.4
0.7
627.8
U/L 586/0
f 1000
Z 0
f:Z 0:0
f:Z 0:0
f 1000
Z 1000
f W06UL
Z W06UL

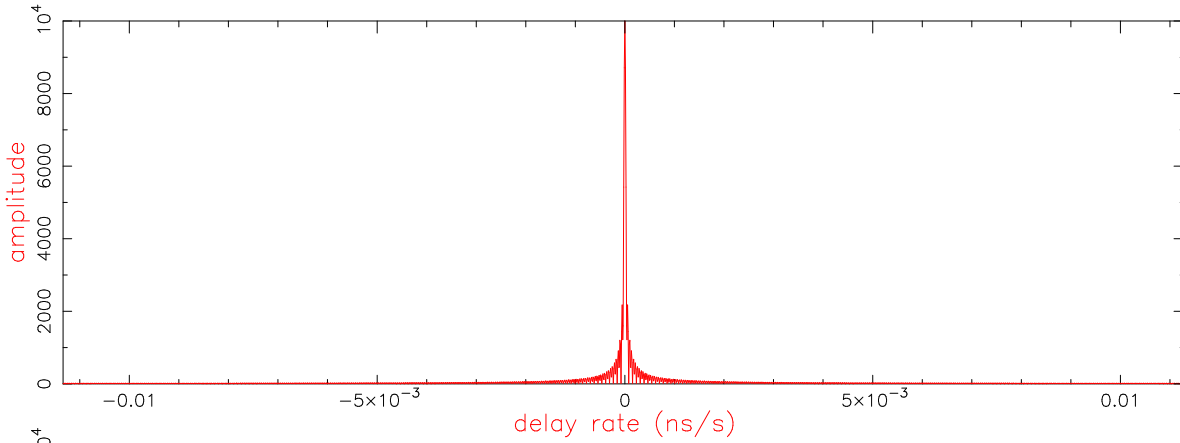
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.61204968282E+03	Apriori delay (usec)	2.61115322065E+03	Resid mbdelay (usec)	-4.35560E-06	+/-	3.3E-03
Sband delay (usec)	2.61204968615E+03	Apriori clock (usec)	1.4666640E+01	Resid sbdelay (usec)	8.96465E-01	+/-	3.3E-03
Phase delay (usec)	2.61115322615E+03	Apriori clockrate (us/s)	-3.9399999E-07	Resid phdelay (usec)	5.49445E-06	+/-	7.1E-07
Delay rate (us/s)	1.80501114915E+00	Apriori rate (us/s)	1.80502223452E+00	Resid rate (us/s)	-1.10854E-05	+/-	4.1E-09
Total phase (deg)	-170.5	Apriori accel (us/s/s)	-2.51241428101E-05	Resid phase (deg)	-324.2	+/-	22.1

ph/seg (deg)	91.7	Theor.	189.5	Amplitude	0.703 +/- 0.136	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	367.9	Search (2048X8)	0.450	Apriori clock (usec)	1.4666640E+01	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Apriori clockrate (us/s)	-3.9399999E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.7	Inc. seg. avg.	0.439	Apriori rate (us/s)	1.80502223452E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
		Inc. frq. avg.	0.685	Apriori accel (us/s/s)	-2.51241428101E-05	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011

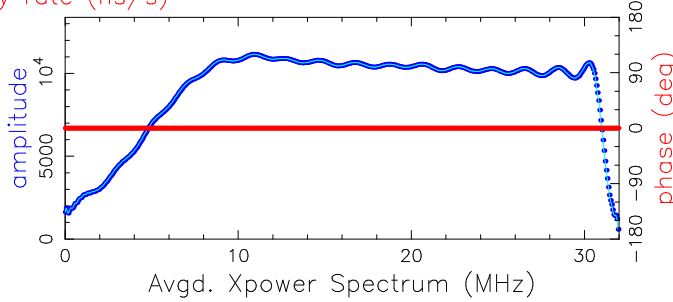
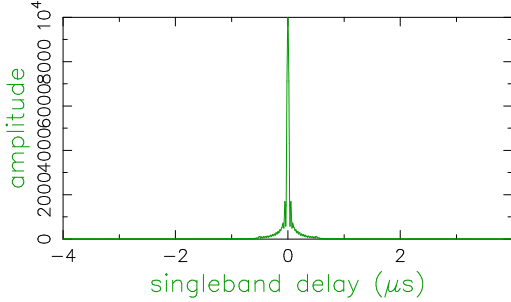
f: az 89.4 el 32.4 pa -63.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10799.010 -3572.966 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//fZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//fZ.W.89.0QR3WR



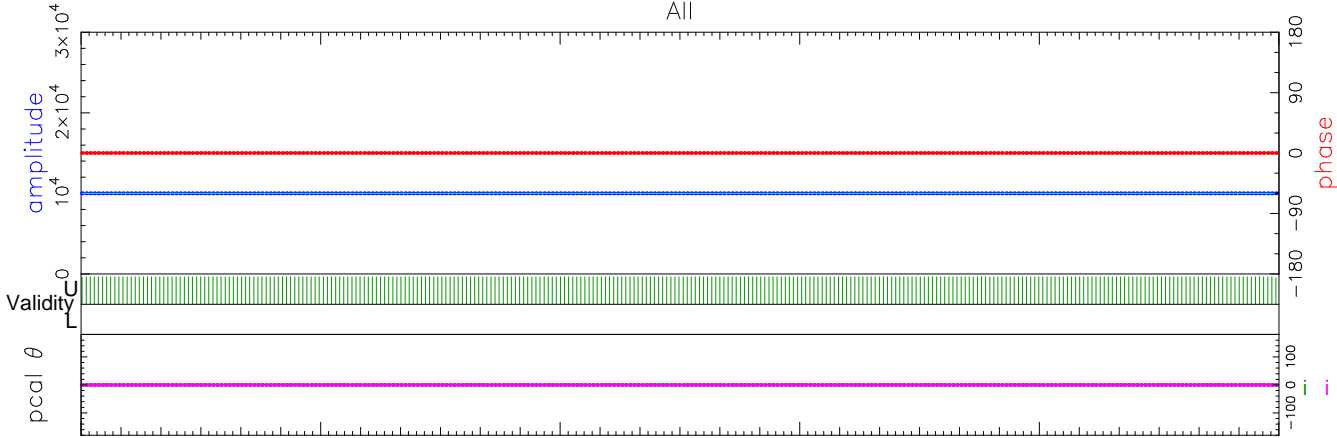
Fringe quality 9

SNR 118408.2
 Int time 299.977
 Amp 10000.000
 Phase -0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000007
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174202
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



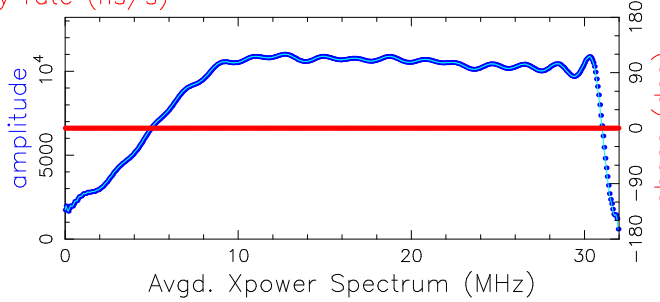
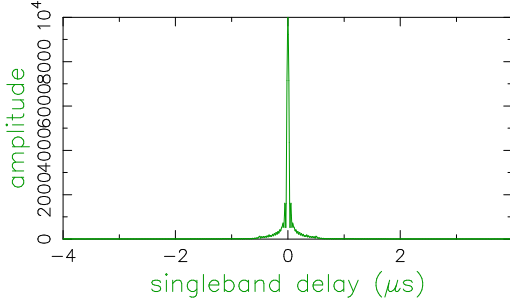
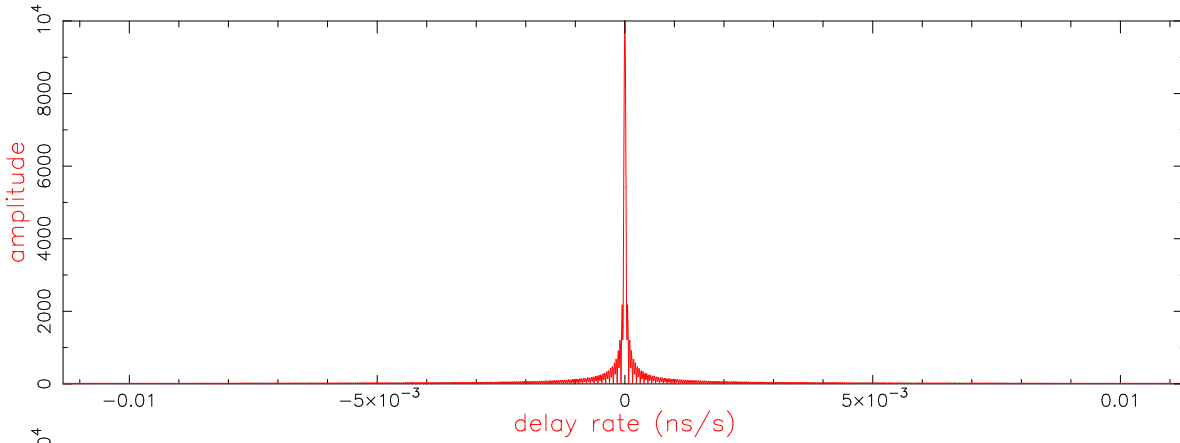
86204.00
 0.2
 10000.0
 513.0
 U/L 586/0
 i 0
 i 0
 ii 0:0
 ii 0:0
 i 1000
 i 1000
 i W06UL
 i W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	4.54039255719E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.06000E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.55676546636E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.55677E-09	+/-	3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X8)	10000.000	Search	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	10000.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	10000.000	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	10000.000	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

i: az 249.4 el 49.9 pa 50.9 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ii...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ii.W.117.0QR3WR



Fringe quality 9

SNR 118408.2

Int time 299.977

Amp 10000.000

Phase -0.1

PFD 0.0e+00

Delays (us)

SBD 0.000000

MBD -0.000007

Fringe rate (Hz)

0.000000

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

2019:212:174203

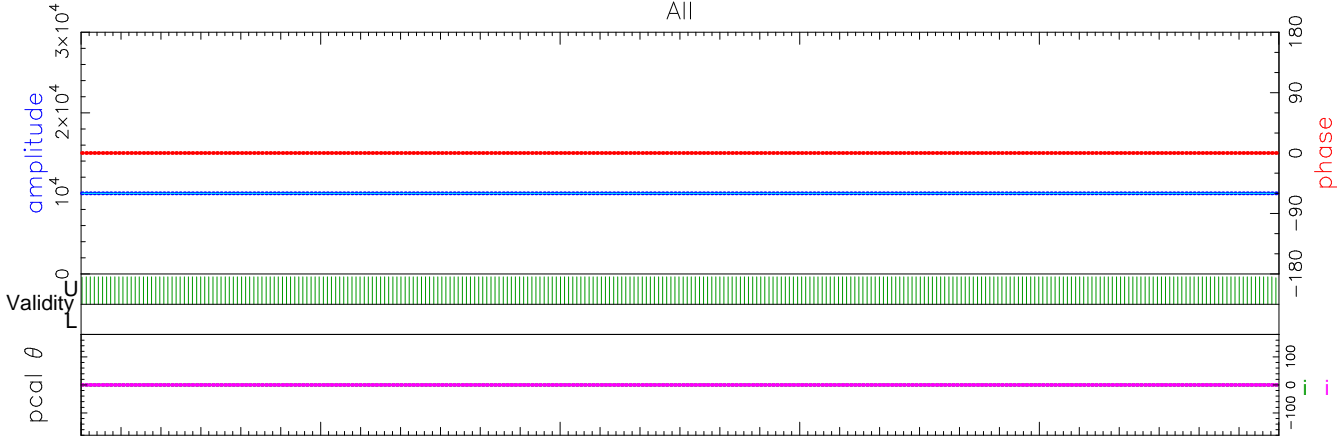
2018:249:082454

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00		Freq (MHz)
0.2		Phase
10000.0		Ampl.
513.0		Sbd box
U/L 586/0		APs used
i 0		PC freqs
i 0		PC freqs
ii 0:0		PC phase
ii 0:0		Manl PC
i 1000		PC amp
i 1000		
i W06UR		Chan ids
i W06UR		Chan ids

Group delay (usec)(sbd)	4.71115029465E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88924E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.39817922308E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.39818E-09	+/- 3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0		0.0	Search (2048X8)	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	10000.000	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

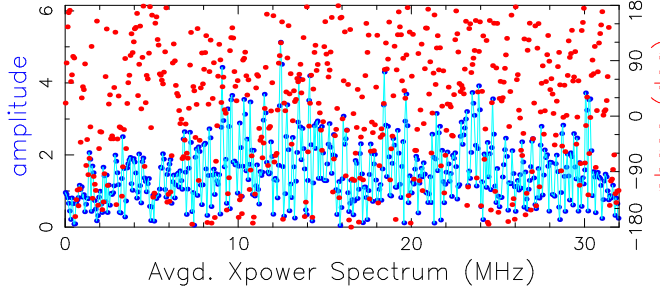
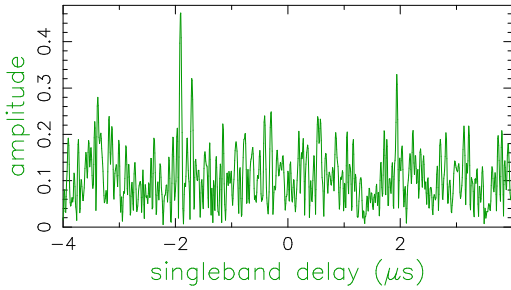
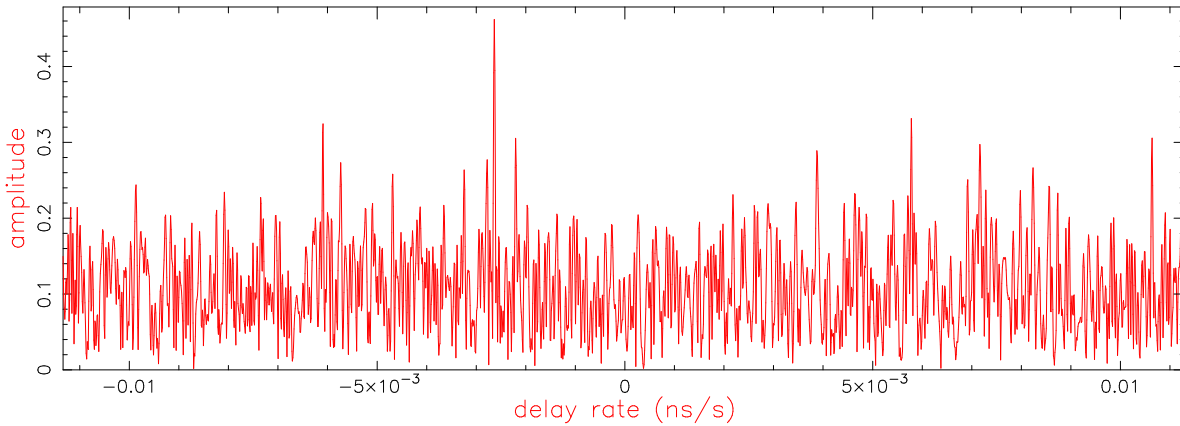
i: az 249.4 el 49.9 pa 50.9 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ii...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ii.W.127.0QR3WR

Fringe quality 0

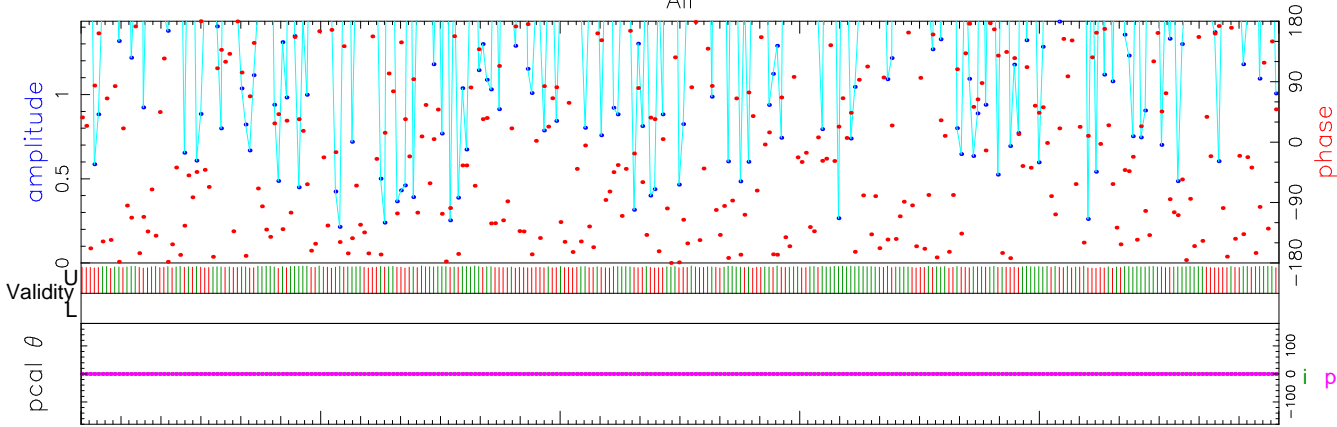
SNR 5.4
Int time 285.860
Amp 0.478
Phase 298.5
PFD 1.0e+00
Delays (us)
SBD -1.909762
MBD -0.000007
Fringe rate (Hz)
-0.226417
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174201
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-142.1
0.5
268.6
U/L 586/0
i 0
p 1000
i:p 0:0
ip 0:0
i 1000
p 1000
i W06UL
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.57413458483E+03	Apriori delay (usec)	5.57604434062E+03	Resid mbdelay (usec)	-6.82224E-06	+/-	3.2E-03
Sband delay (usec)	5.57413457912E+03	Apriori clock (usec)	-3.1866833E+01	Resid sbdelay (usec)	-1.90976E+00	+/-	3.2E-03
Phase delay (usec)	5.57604433604E+03	Apriori clockrate (us/s)	-2.4200000E-07	Resid phdelay (usec)	-4.58279E-06	+/-	6.8E-07
Delay rate (us/s)	-1.87822696355E+00	Apriori rate (us/s)	-1.87822433508E+00	Resid rate (us/s)	-2.62847E-06	+/-	3.9E-09
Total phase (deg)	118.8	Apriori accel (us/s/s)	-2.85814745202E-05	Resid phase (deg)	298.5	+/-	21.2

ph/seg (deg)	RMS 96.1	Theor. 181.3	Amplitude 0.478 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	368.8	316.4	Search (2048X8) 0.447	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	10.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	1.3	18.5	Inc. seg. avg. 0.317	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.464	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

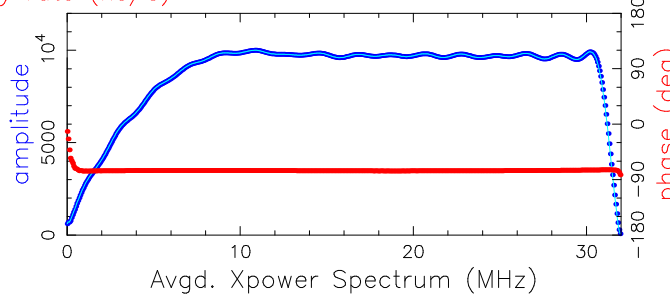
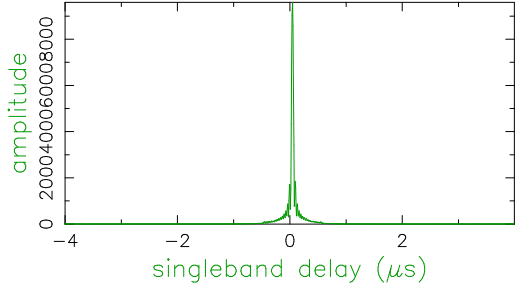
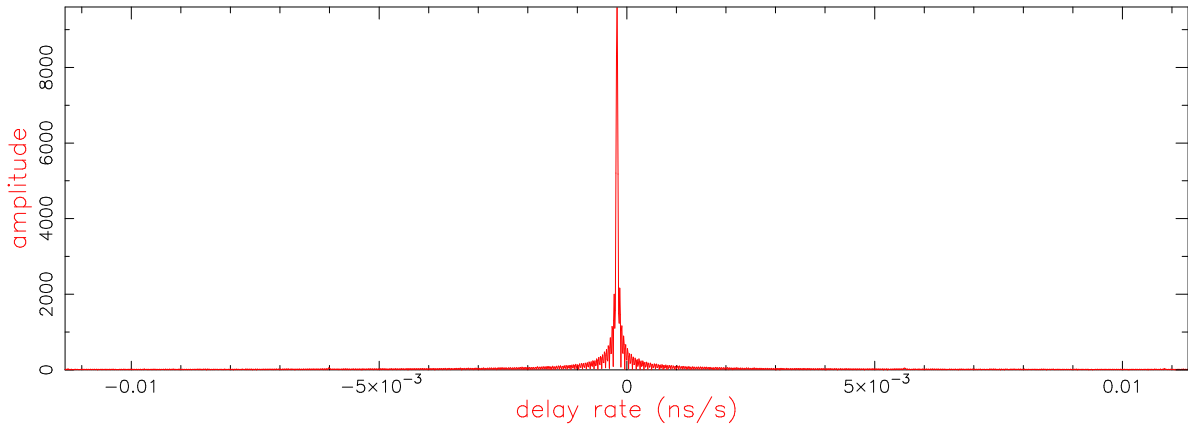
i: az 249.4 el 49.9 pa 50.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 11166.399 -374.481 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ip..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ip.W.109.0QR3WR

Fringe quality 9

SNR 113046.3
Int time 296.792
Amp 9599.488
Phase -145.4
PFD 0.0e+00
Delays (us)
SBD 0.045685
MBD -0.000006
Fringe rate (Hz)
-0.017177
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

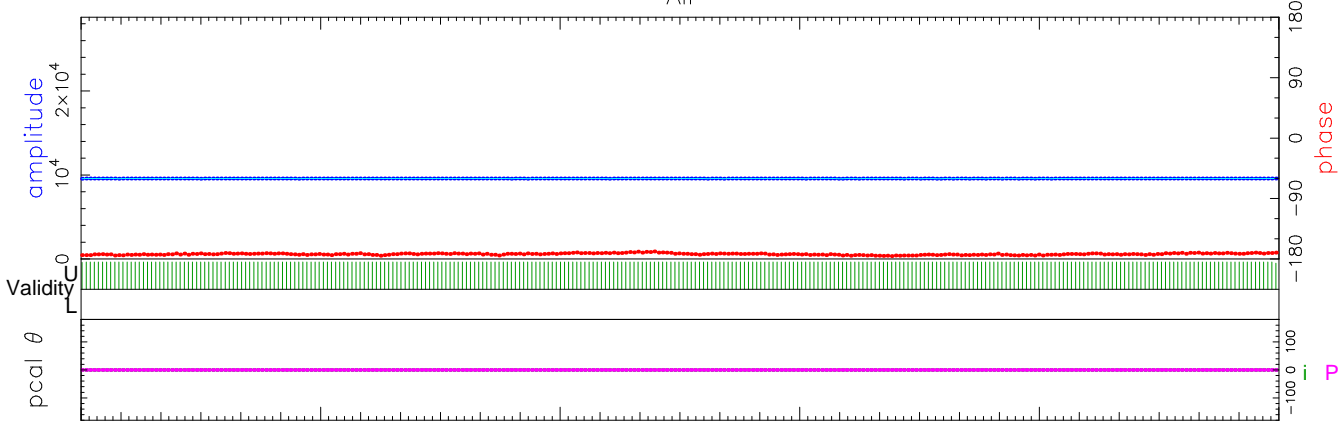


Table with 2 columns: parameter and value. Includes values like 86204.00, -172.6, 9580.8, 518.9, 586/0, etc.

Table with 6 columns: parameter, value, and error. Includes Group delay, Sband delay, Phase delay, Delay rate, Total phase, Apriori delay, etc.

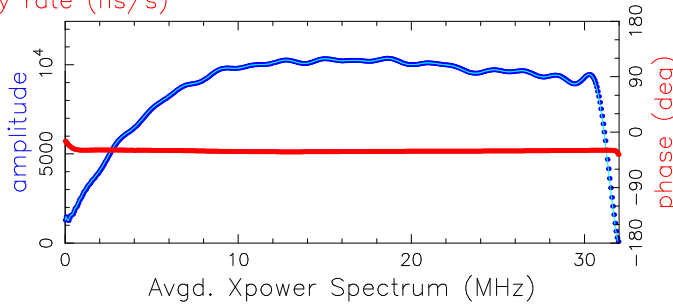
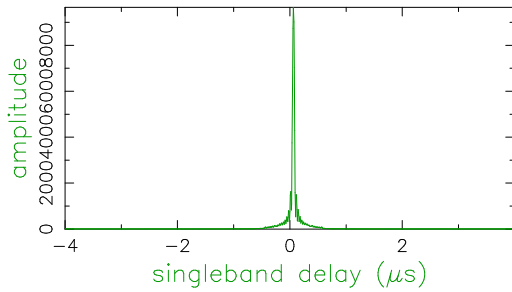
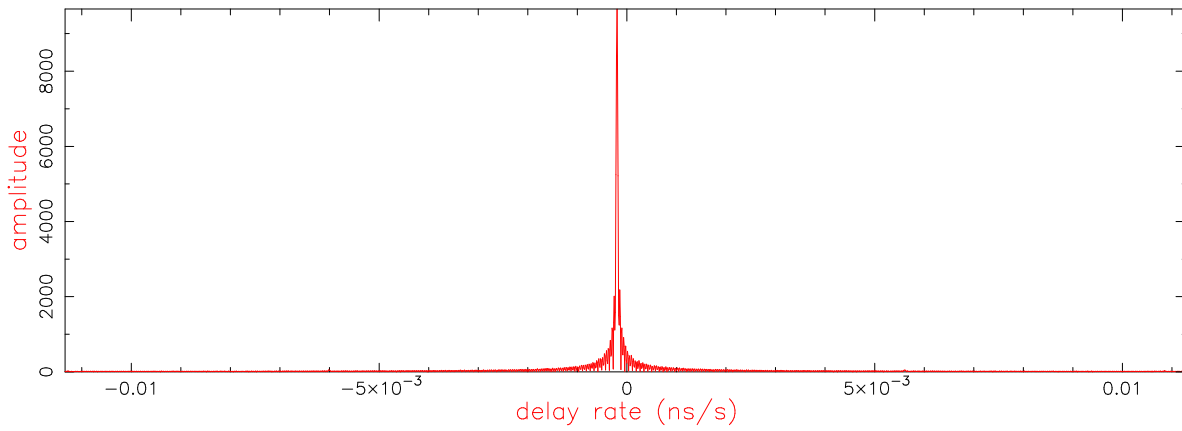
Table with 4 columns: parameter, value, and error. Includes ph/seg, amp/seg, ph/frq, amp/frq, RMS, Theor., Amplitude, Search, Interp., Inc. seg. avg., Inc. frq. avg.

i: az 249.4 el 49.9 pa 50.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iP.W.111.0QR3WR

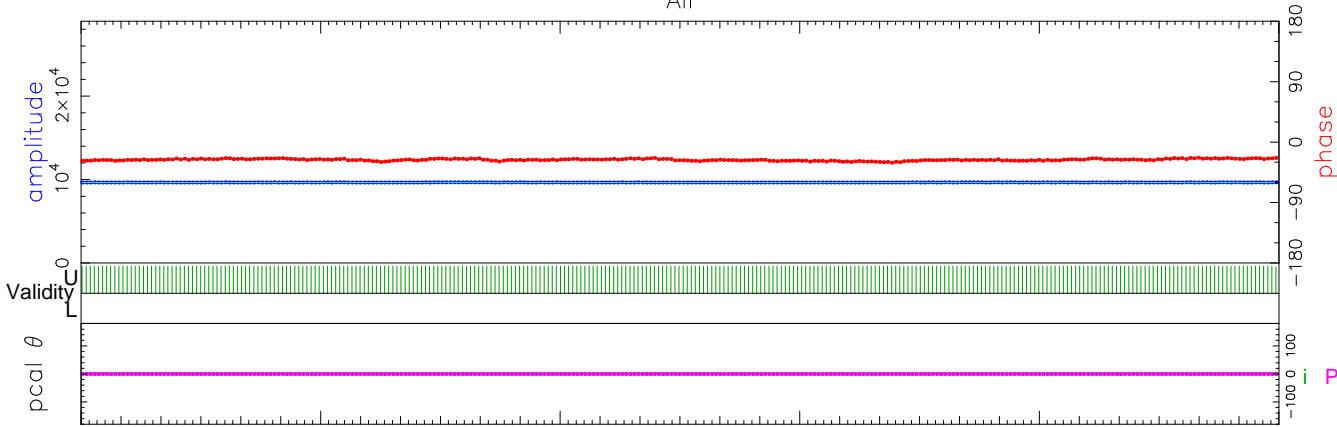
Fringe quality 9

SNR 113719.5
Int time 296.792
Amp 9656.652
Phase -42.9
PFD 0.0e+00
Delays (us)
SBD 0.063212
MBD -0.000004
Fringe rate (Hz)
-0.017175
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



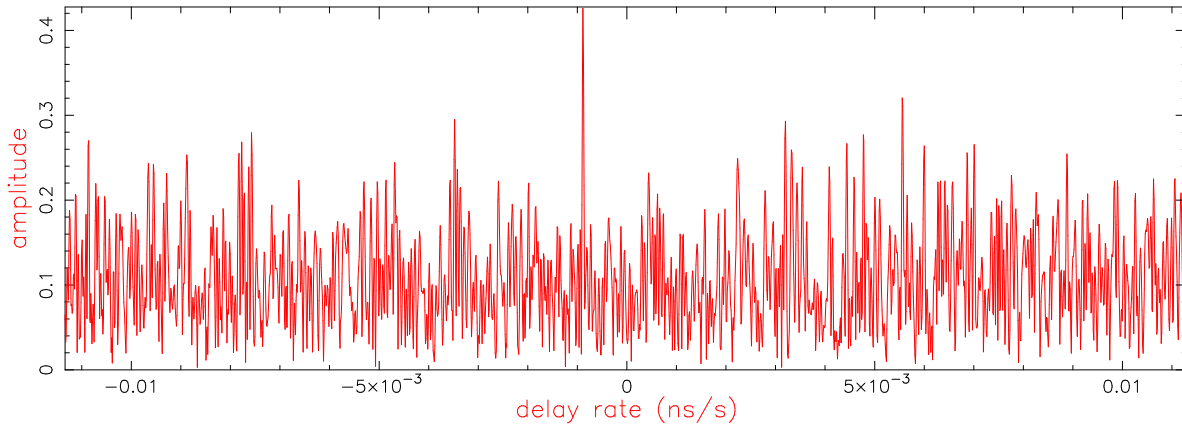
86204.00
-26.3
9650.1
521.1
U/L 586/0
i 0
P 0
i:P 0:0
i:P 0:0
i 1000
P 1000
i W06UR
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

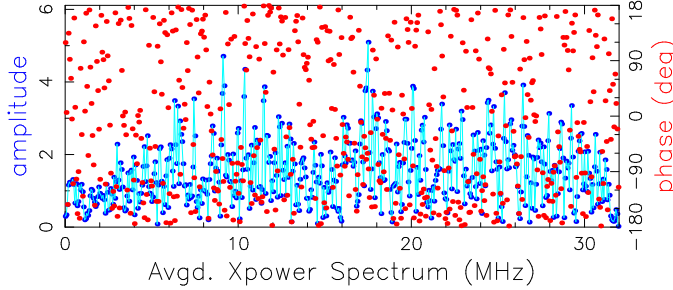
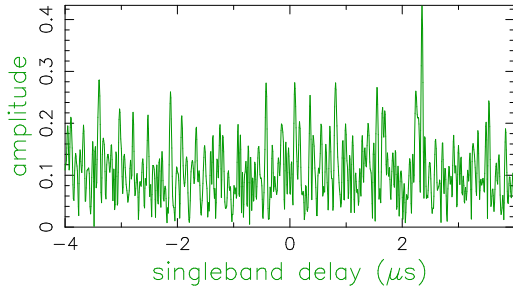
Group delay (usec)(sbd)	-4.21092299104E-01	Apriori delay (usec)	-4.84310000000E-01	Resid mbdelay (usec)	-4.42337E-06	+/-	1.5E-07
Sband delay (usec)	-4.21097500000E-01	Apriori clock (usec)	-4.8430824E-01	Resid sbdelay (usec)	6.32125E-02	+/-	1.5E-07
Phase delay (usec)	-4.84310847806E-01	Apriori clockrate (us/s)	2.0000001E-07	Resid phdelay (usec)	-8.47806E-07	+/-	3.2E-11
Delay rate (us/s)	6.20388524777E-10	Apriori rate (us/s)	1.9999999984E-07	Resid rate (us/s)	-1.99380E-07	+/-	1.9E-13
Total phase (deg)	-209.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-42.9	+/-	0.0

ph/seg (deg)	1.4	0.0	Amplitude	9656.651 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.1	0.0	Search (2048X8)	9632.478	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	0.0	Inc. seg. avg.	9653.077	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	9650.071	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

i: az 249.4 el 49.9 pa 50.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iP.W.122.0QR3WR

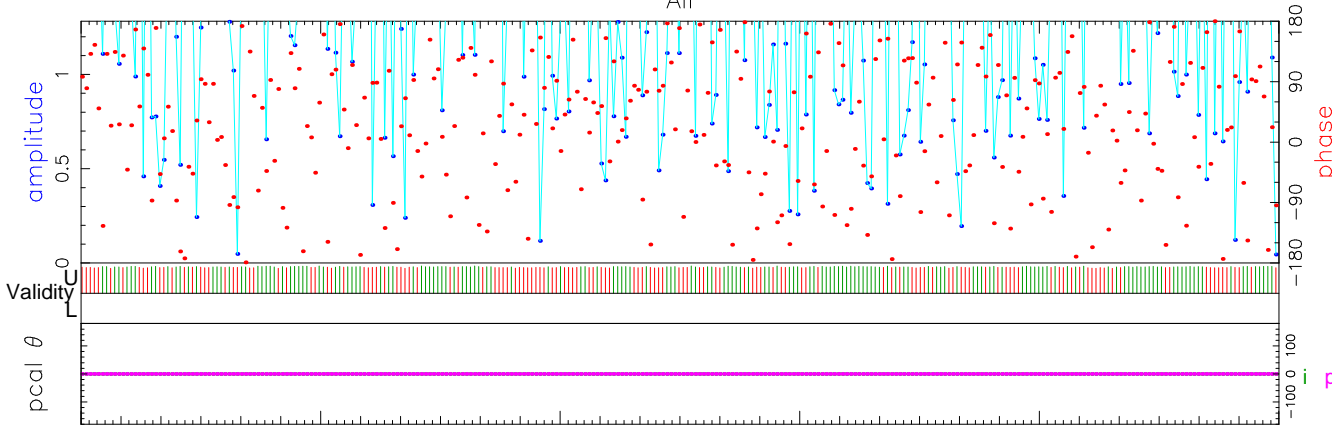


Fringe quality 0
SNR 4.9
Int time 285.854
Amp 0.428
Phase -93.0
PFD 1.0e+00
Delays (us)
SBD 2.350625
MBD -0.000004
Fringe rate (Hz)
-0.076328
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174203
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
65.6
0.4
813.9
U/L 586/0
i 0
p 1000
i:p 0:0
ip 0:0
i 1000
p 1000
i W06UR
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	5.57839496964E+03	Apriori delay (usec)	5.57604434062E+03	Resid mbdelay (usec)	-4.35562E-06	+/- 3.5E-03
Sband delay (usec)	5.57839496562E+03	Apriori clock (usec)	-3.1866833E+01	Resid sbdelay (usec)	2.35063E+00	+/- 3.5E-03
Phase delay (usec)	5.57604434273E+03	Apriori clockrate (us/s)	-2.4200000E-07	Resid phdelay (usec)	2.11541E-06	+/- 7.5E-07
Delay rate (us/s)	-1.87822522117E+00	Apriori rate (us/s)	-1.87822433508E+00	Resid rate (us/s)	-8.86091E-07	+/- 4.3E-09
Total phase (deg)	-272.7	Apriori accel (us/s/s)	-2.85814745202E-05	Resid phase (deg)	-93.0	+/- 23.2

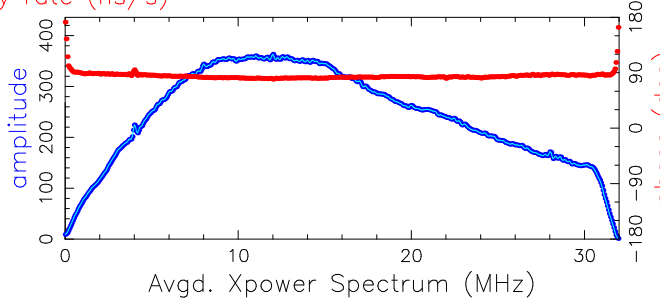
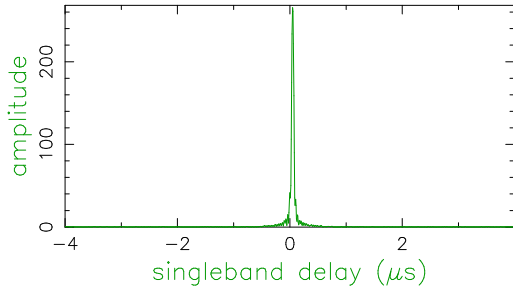
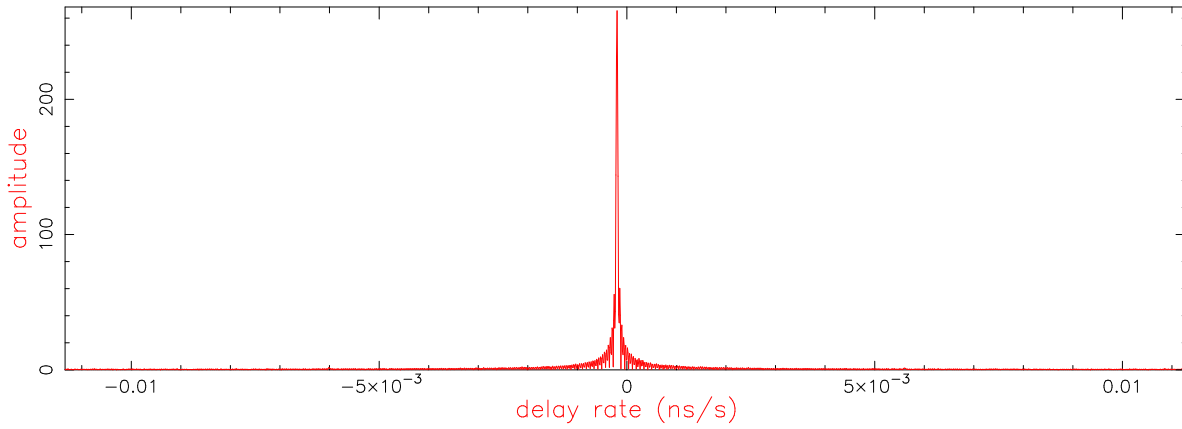
ph/seg (deg)	91.3	Theor.	199.0	Amplitude	0.428 +/- 0.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	379.1	Search (2048X8)	0.423	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.247	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.418	Inc. frq. avg.	0.418	Sample rate(MSamp/s): 64	dr window (ns/s) -0.011 0.011	
						Data rate(Mb/s): 128	ion window (TEC) 0.00 0.00	

i: az 249.4 el 49.9 pa 50.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 11166.399 -374.481 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ip..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ip.W.129.0QR3WR

Fringe quality 9

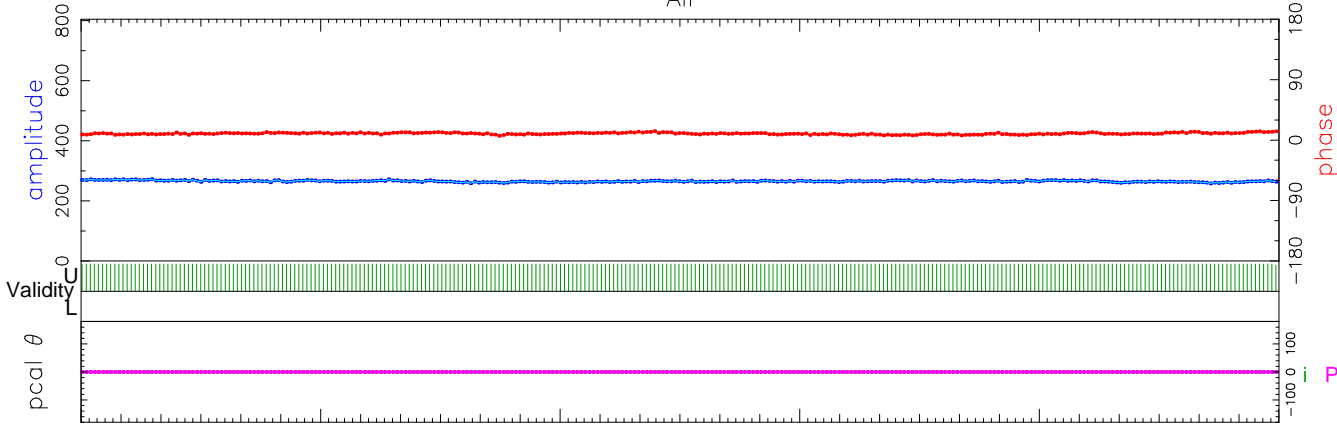
SNR 3159.1
Int time 296.792
Amp 268.256
Phase -59.2
PFD 0.0e+00
Delays (us)
SBD 0.049870
MBD -0.000005
Fringe rate (Hz)
-0.017176
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
9.8
265.5
519.4
U/L 586/0
i 0
P 0
i:P 0:0
i:P 0:0
i 1000
P 1000
i W06UL
P W06UR

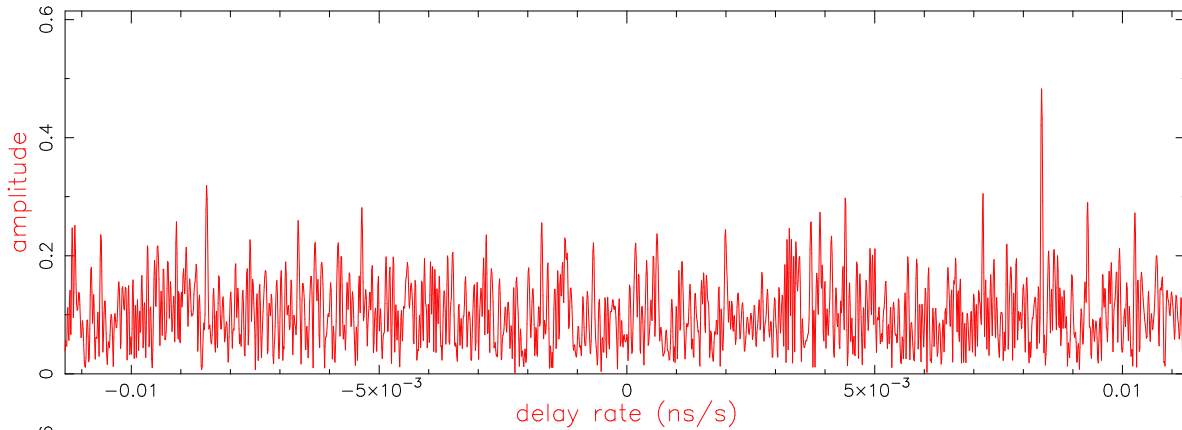
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.34444886362E-01	Apriori delay (usec)	-4.84310000000E-01	Resid mbdelay (usec)	-4.96200E-06	+/-	5.5E-06
Sband delay (usec)	-4.34440000000E-01	Apriori clock (usec)	-4.8430824E-01	Resid sbdelay (usec)	4.98700E-02	+/-	5.5E-06
Phase delay (usec)	-4.84309684682E-01	Apriori clockrate (us/s)	2.0000001E-07	Resid phdelay (usec)	3.15318E-07	+/-	1.2E-09
Delay rate (us/s)	6.03383141907E-10	Apriori rate (us/s)	1.9999999984E-07	Resid rate (us/s)	-1.99397E-07	+/-	6.8E-12
Total phase (deg)	-226.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-59.2	+/-	0.0

ph/seg (deg)	1.3	0.3	Amplitude	268.256 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	1.4	0.5	Search (2048X8)	264.999	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.0	0.0	Inc. seg. avg.	265.545	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	265.483	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

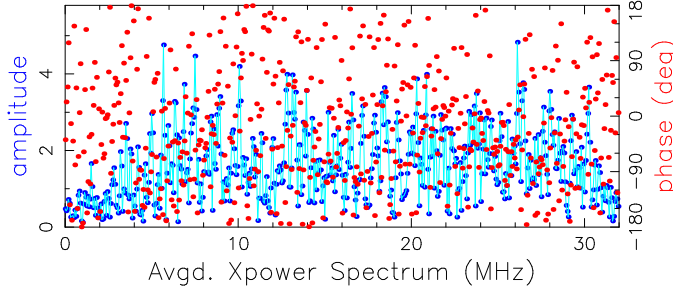
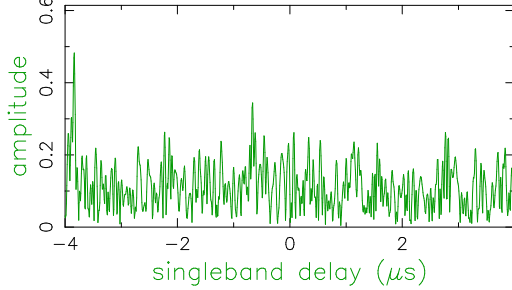
i: az 249.4 el 49.9 pa 50.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iP.W.136.0QR3WR



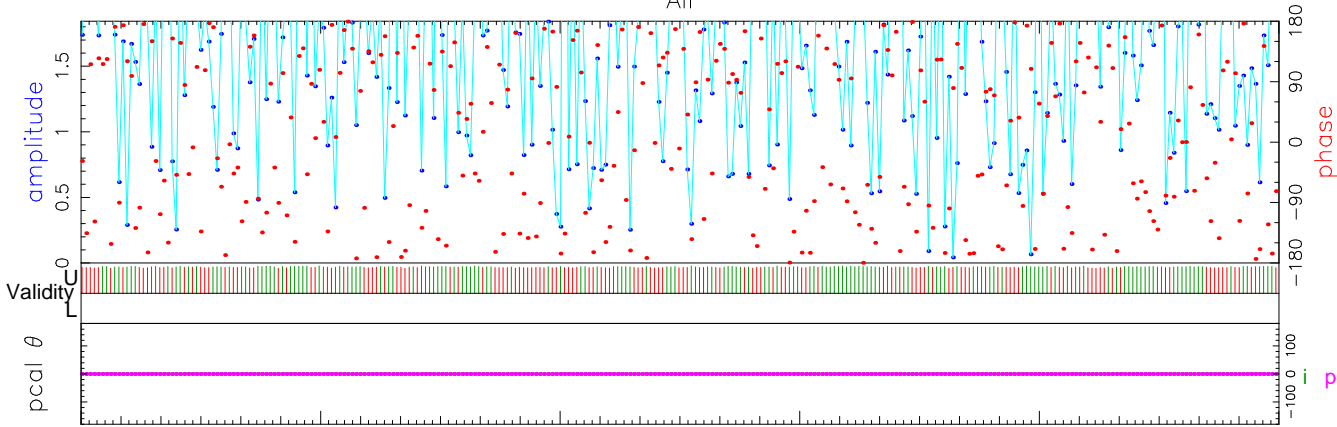
Fringe quality 0

SNR 5.6
 Int time 285.854
 Amp 0.615
 Phase 51.3
 PFD 9.1e-01
 Delays (us)
 SBD -3.838362
 MBD 0.000006
 Fringe rate (Hz)
 0.720535
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174205
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
 175.3 Phase
 0.6 Ampl.
 21.7 Sbd box
 U/L 586/0 APs used
 i 0 PC freqs
 p 1000 PC freqs
 i:p 0:0 PC phase
 i:p 0:0 Mani PC
 i 1000 PC amp
 p 1000
 i W06UL Chan ids
 p W06UR Chan ids

Group delay (usec)(sbd)	5.57220597453E+03	Apriori delay (usec)	5.57604434062E+03	Resid mbdelay (usec)	5.68605E-06	+/-	3.1E-03
Sband delay (usec)	5.57220597912E+03	Apriori clock (usec)	-3.1866833E+01	Resid sbdelay (usec)	-3.83836E+00	+/-	3.1E-03
Phase delay (usec)	5.57604434627E+03	Apriori clockrate (us/s)	-2.4200000E-07	Resid phdelay (usec)	5.65142E-06	+/-	6.6E-07
Delay rate (us/s)	-1.87821597038E+00	Apriori rate (us/s)	-1.87822433508E+00	Resid rate (us/s)	8.36470E-06	+/-	3.8E-09
Total phase (deg)	231.6	Apriori accel (us/s/s)	-2.85814745202E-05	Resid phase (deg)	51.3	+/-	20.4

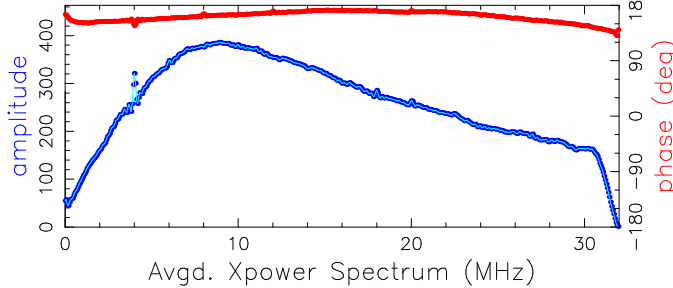
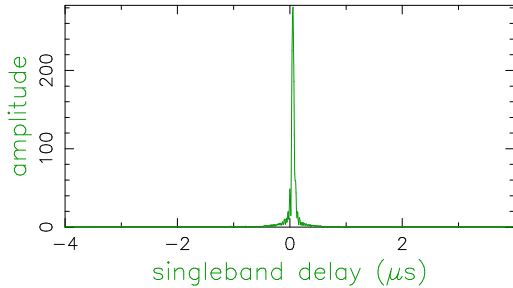
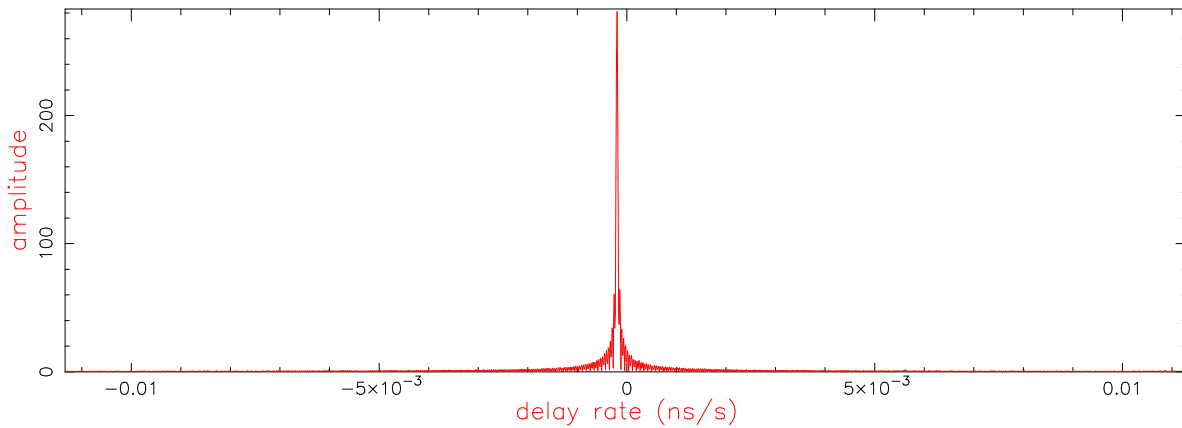
ph/seg (deg)	88.1	Theor.	174.6	Amplitude	0.615 +/- 0.109	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	332.3	Search (2048X8)	0.470	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.400	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.7	Inc. frq. avg.	0.600	Inc. frq. avg.	0.600	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

i: az 249.4 el 49.9 pa 50.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 11166.399 -374.481 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ip..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ip.W.143.0QR3WR

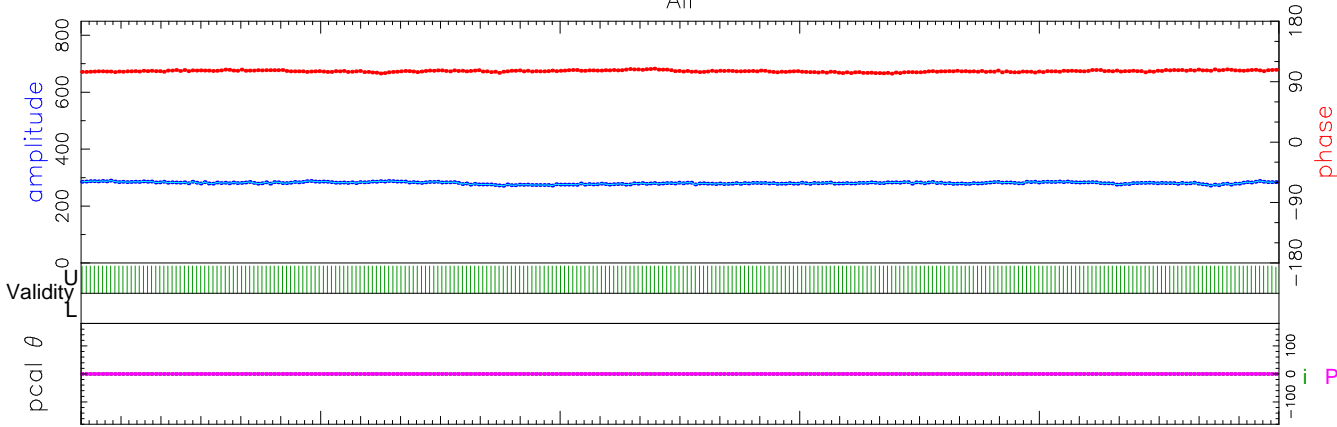
Fringe quality 9

SNR 3334.9
Int time 296.792
Amp 283.184
Phase -17.9
PFD 0.0e+00
Delays (us)
SBD 0.052228
MBD -0.000005
Fringe rate (Hz)
-0.017179
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



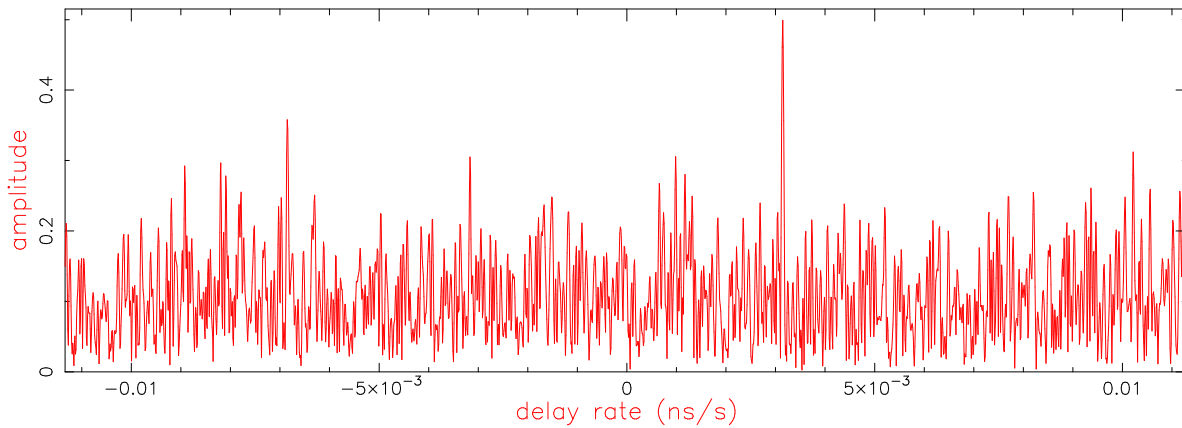
86204.00
105.6
281.1
519.7
U/L 586/0
i 0
P 0
i:P 0:0
i:P 0:0
i 1000
P 1000
i W06UR
P W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

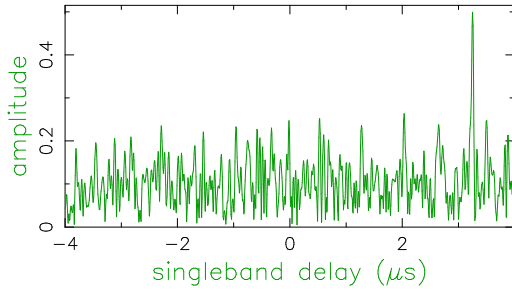
Group delay (usec)(sbd)	-4.32077993875E-01	Apriori delay (usec)	-4.84310000000E-01	Resid mbdelay (usec)	-4.54902E-06	+/-	5.2E-06
Sband delay (usec)	-4.32082000000E-01	Apriori clock (usec)	-4.8430824E-01	Resid sbdelay (usec)	5.22280E-02	+/-	5.2E-06
Phase delay (usec)	-4.84306595151E-01	Apriori clockrate (us/s)	2.000001E-07	Resid phdelay (usec)	3.40485E-06	+/-	1.1E-09
Delay rate (us/s)	5.72206606645E-10	Apriori rate (us/s)	1.9999999984E-07	Resid rate (us/s)	-1.99428E-07	+/-	6.4E-12
Total phase (deg)	-184.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-17.9	+/-	0.0

ph/seg (deg)	1.3	0.3	Amplitude	283.184 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	1.5	0.5	Search (2048X8)	280.547	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	0.0	Inc. seg. avg.	281.131	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	281.062	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

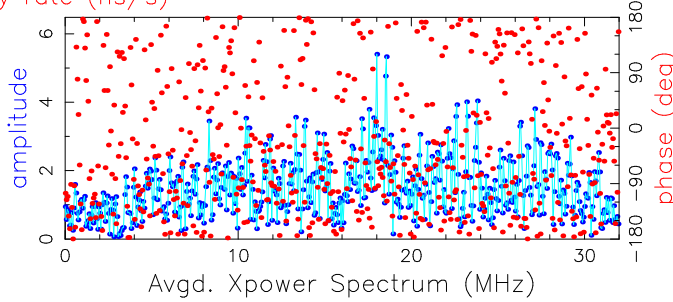
i: az 249.4 el 49.9 pa 50.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iP.W.149.0QR3WR



Fringe quality 0
 SNR 5.8
 Int time 285.860
 Amp 0.515
 Phase -117.2
 PFD 6.3e-01
 Delays (us)
 SBD 3.250351
 MBD 0.000007
 Fringe rate (Hz)
 0.270546
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



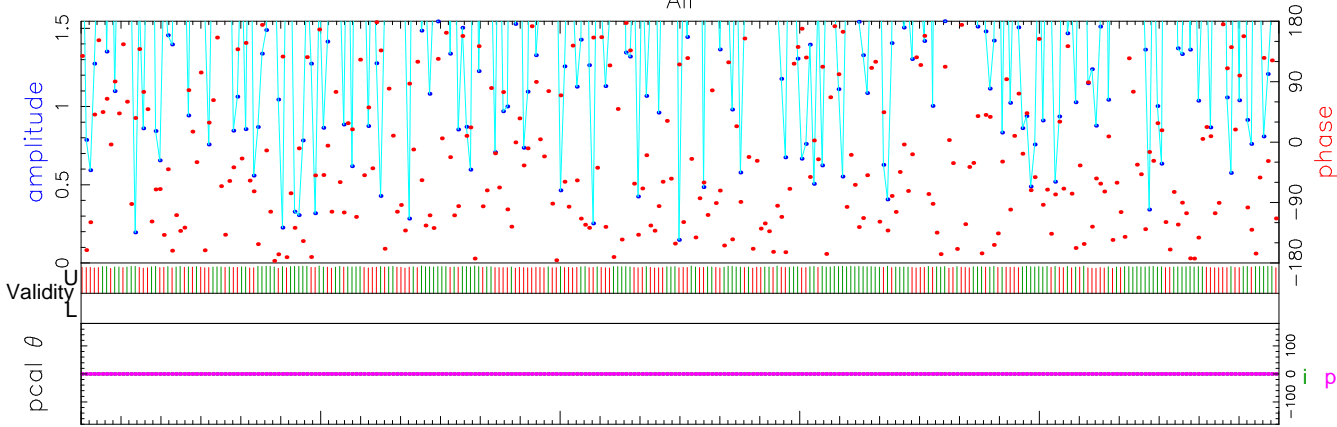
delay rate (ns/s)



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174206
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



Validity
 pcal θ
 i p

86204.00
 -109.2
 0.5
 929.0
 U/L 586/0
 i 0
 p 1000
 i:p 0:0
 i:p 0:0
 i 1000
 p 1000
 i W06UR
 p W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	5.57929469586E+03	Apriori delay (usec)	5.57604434062E+03	Resid mbdelay (usec)	7.23407E-06	+/- 3.0E-03
Sband delay (usec)	5.57929469162E+03	Apriori clock (usec)	-3.1866833E+01	Resid sbdelay (usec)	3.25035E+00	+/- 3.0E-03
Phase delay (usec)	5.57604433710E+03	Apriori clockrate (us/s)	-2.4200000E-07	Resid phdelay (usec)	-3.52112E-06	+/- 6.4E-07
Delay rate (us/s)	-1.87822119430E+00	Apriori rate (us/s)	-1.87822433508E+00	Resid rate (us/s)	3.14078E-06	+/- 3.7E-09
Total phase (deg)	-296.9	Apriori accel (us/s/s)	-2.85814745202E-05	Resid phase (deg)	-117.2	+/- 19.9

ph/seg (deg)	RMS 91.1	Theor. 170.0	Amplitude 0.515 +/- 0.089	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	339.5	296.7	Search (2048X8) 0.493	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	9.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	17.3	Inc. seg. avg. 0.357	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.507	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

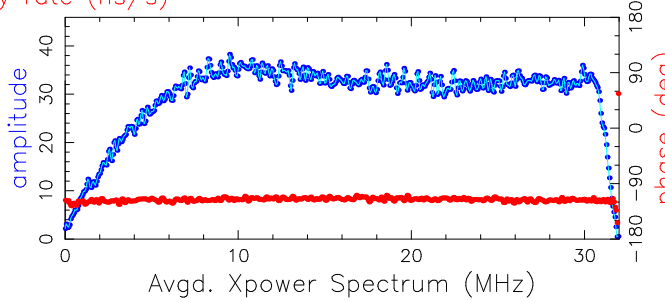
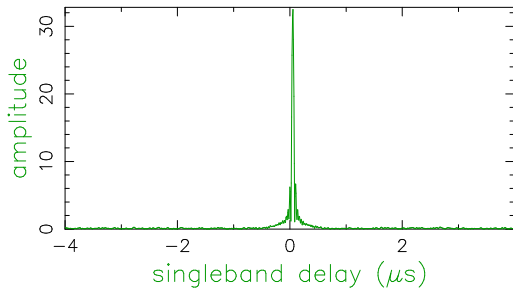
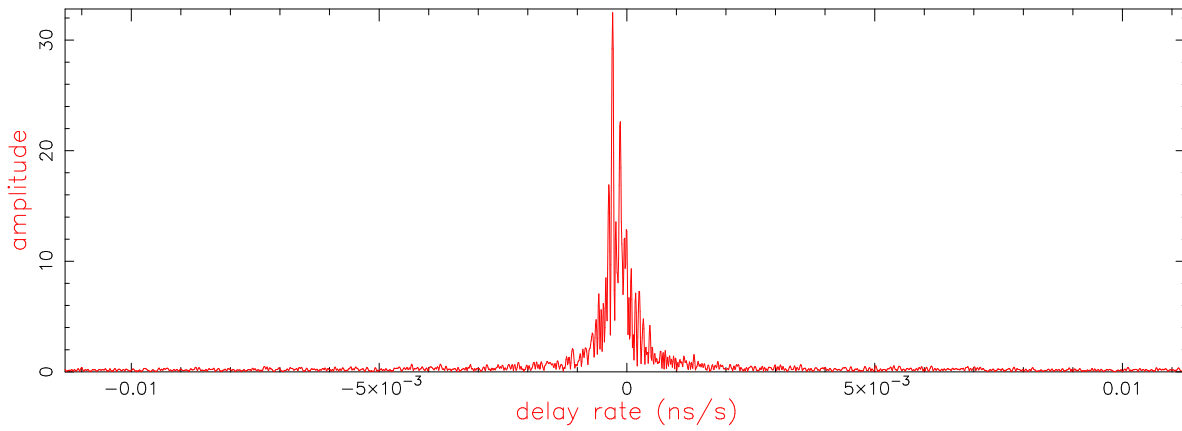
i: az 249.4 el 49.9 pa 50.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 11166.399 -374.481 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ip..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ip.W.152.0QR3WR

Fringe quality 5

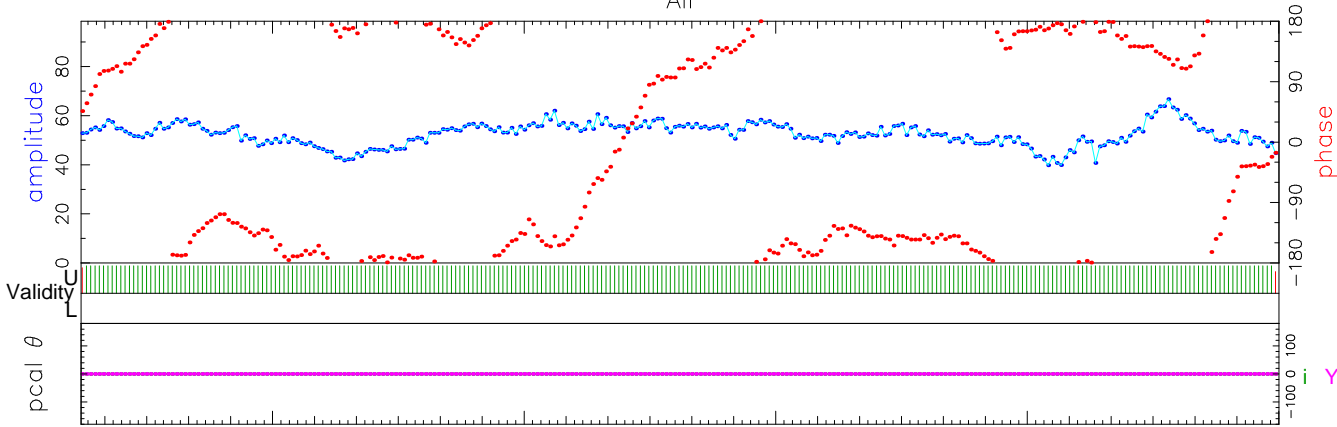
SNR 378.9
Int time 285.318
Amp 32.816
Phase -295.7
PFD 0.0e+00
Delays (us)
SBD 0.052036
MBD -0.000005
Fringe rate (Hz)
-0.025013
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174202
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-176.7
32.5
519.7
U/L 558/0
i 0
Y 0
i:Y 0:0
i:Y 0:0
i 1000
Y 1000
i W06UL
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.63115224723E+02	Apriori delay (usec)	3.63063190485E+02	Resid mbdelay (usec)	-5.11076E-06	+/-	4.5E-05
Sband delay (usec)	3.63115226485E+02	Apriori clock (usec)	-7.5829983E+00	Resid sbdelay (usec)	5.20360E-02	+/-	4.5E-05
Phase delay (usec)	3.63063184787E+02	Apriori clockrate (us/s)	-2.9000001E-07	Resid phdelay (usec)	-5.69779E-06	+/-	9.8E-09
Delay rate (us/s)	-3.15635779048E-02	Apriori rate (us/s)	-3.15632875252E-02	Resid rate (us/s)	-2.90380E-07	+/-	5.9E-11
Total phase (deg)	-213.5	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-295.7	+/-	0.3

ph/seg (deg)	58.2	RMS	2.5	Theor.	Amplitude	32.816 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	61.7		4.4		Search (2048X8)	32.251	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0		0.2		Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	1.0		0.3		Inc. seg. avg.	52.501	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
					Inc. frq. avg.	32.499	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

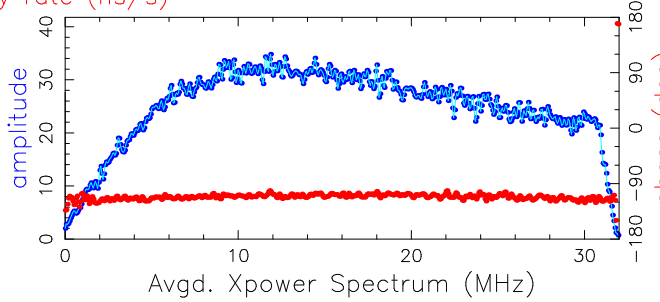
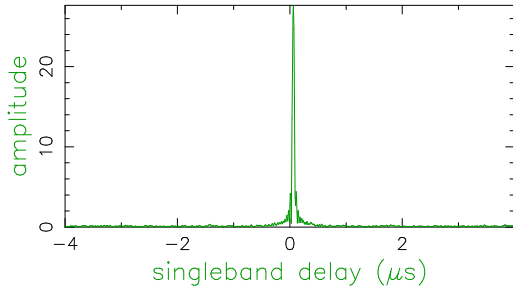
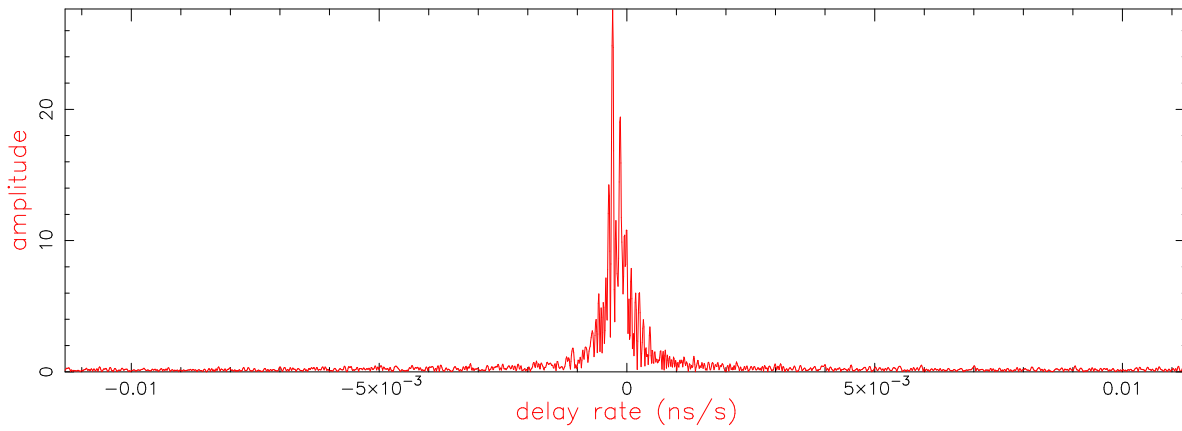
i: az 249.4 el 49.9 pa 50.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iY.W.119.0QR3WR

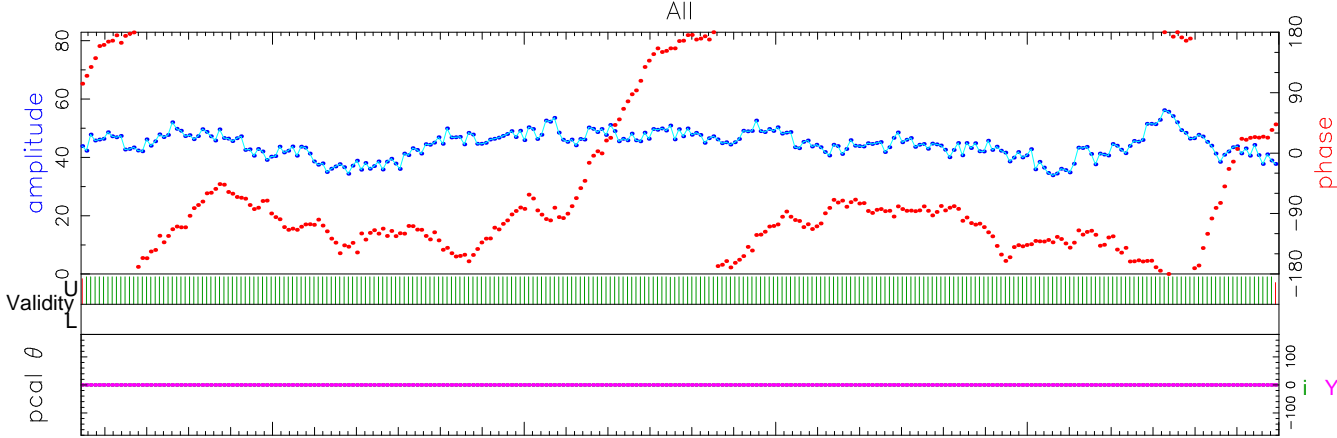
Fringe quality 5

SNR 319.2
Int time 285.318
Amp 27.650
Phase -86.6
PFD 0.0e+00
Delays (us)
SBD 0.061080
MBD -0.000007
Fringe rate (Hz)
-0.025022
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
-119.2
27.6
520.8
U/L 558/0
i 0
Y 0
i:Y 0:0
i:Y 0:0
i 1000
Y 1000
i W06UR
Y W06UR

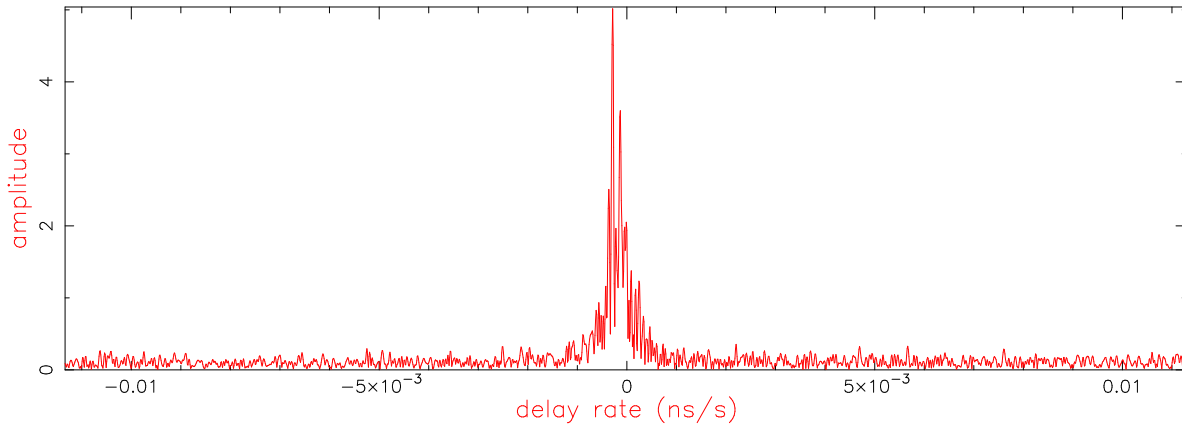
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.63124270948E+02	Apriori delay (usec)	3.63063190485E+02	Resid mbdelay (usec)	-7.18885E-06	+/-	5.4E-05
Sband delay (usec)	3.63124270485E+02	Apriori clock (usec)	-7.5829983E+00	Resid sbdelay (usec)	6.10800E-02	+/-	5.4E-05
Phase delay (usec)	3.63063186641E+02	Apriori clockrate (us/s)	-2.9000001E-07	Resid phdelay (usec)	-3.84340E-06	+/-	1.2E-08
Delay rate (us/s)	-3.15635780005E-02	Apriori rate (us/s)	-3.15632875252E-02	Resid rate (us/s)	-2.90475E-07	+/-	7.0E-11
Total phase (deg)	-4.4	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-86.6	+/-	0.4

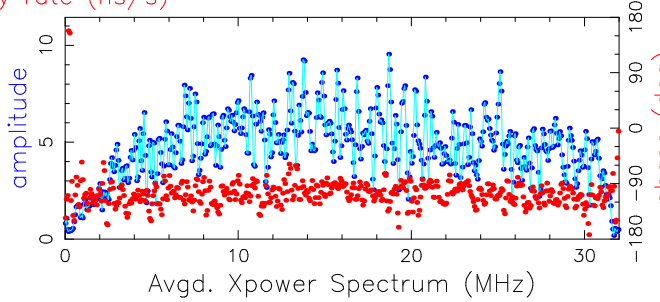
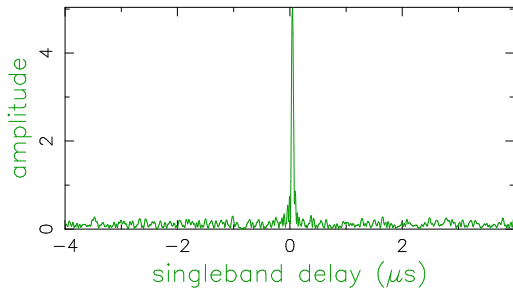
ph/seg (deg)	58.3	RMS	3.0	Theor.	Amplitude	27.650 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	63.0		5.2	Search (2048X8)	27.355		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0		0.2	Interp.	0.000		Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.3		0.3	Inc. seg. avg.	44.484		Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	27.577		Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

i: az 249.4 el 49.9 pa 50.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iY.W.139.0QR3WR

Fringe quality 9



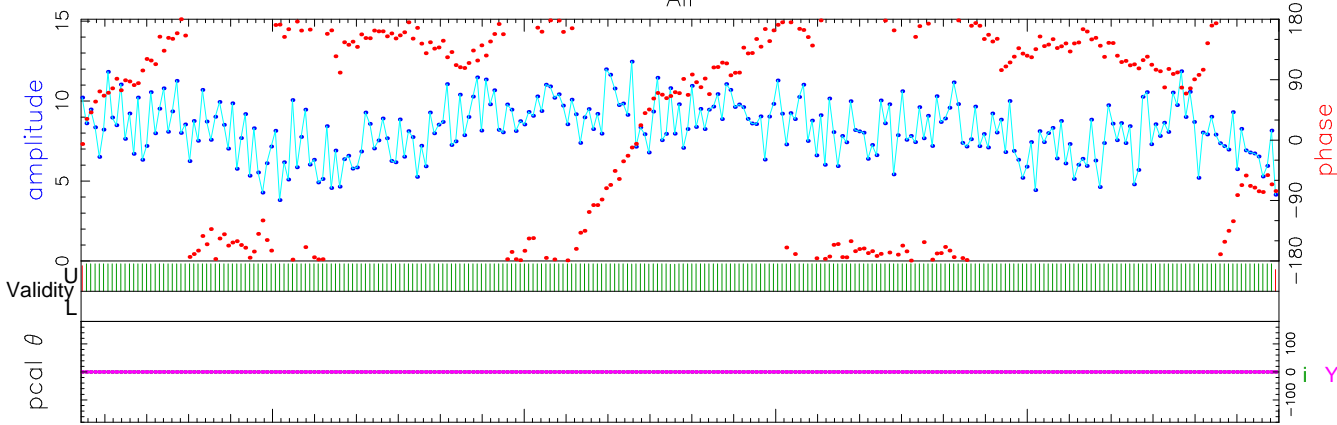
SNR 58.2
 Int time 285.318
 Amp 5.041
 Phase -165.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.045047
 MBD -0.000006
 Fringe rate (Hz)
 -0.024919
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174205
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



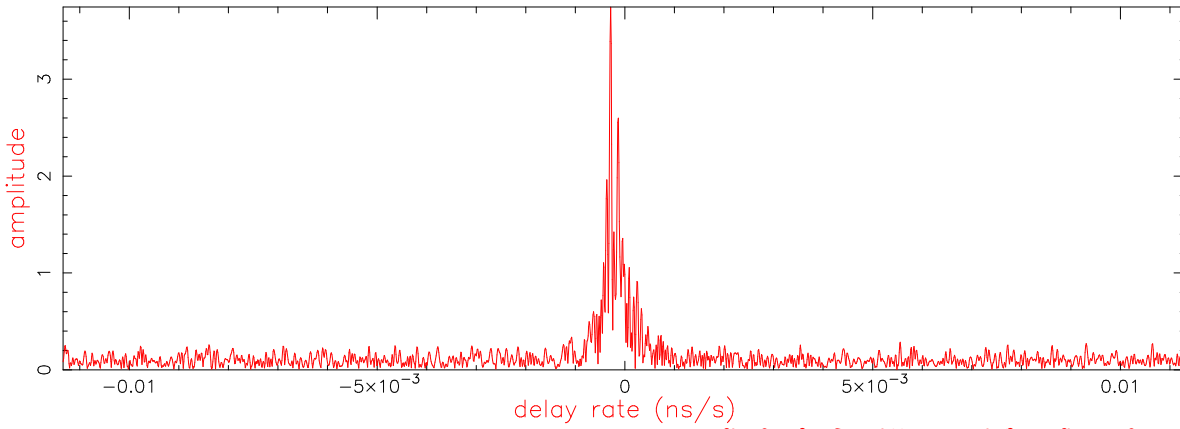
86204.00
 152.7
 5.0
 518.8
 U/L 558/0
 i 0
 Y 0
 i:Y 0:0
 i:Y 0:0
 i 1000
 Y 1000
 i W06UL
 Y W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

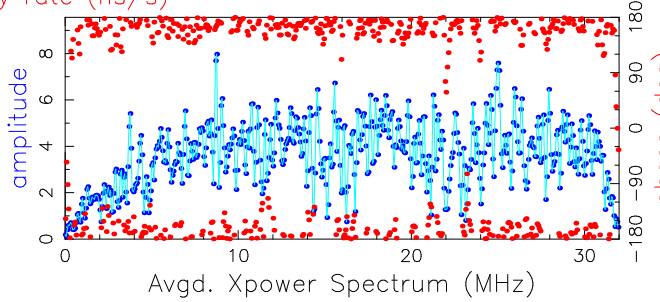
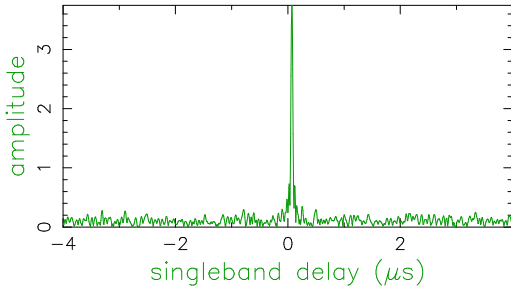
Group delay (usec)(sbd)	3.63108240806E+02	Apriori delay (usec)	3.63063190485E+02	Resid mbdelay (usec)	-5.59259E-06	+/- 3.0E-04
Sband delay (usec)	3.63108237485E+02	Apriori clock (usec)	-7.5829983E+00	Resid sbdelay (usec)	4.50470E-02	+/- 3.0E-04
Phase delay (usec)	3.63063195410E+02	Apriori clockrate (us/s)	-2.9000001E-07	Resid phdelay (usec)	4.92512E-06	+/- 6.3E-08
Delay rate (us/s)	-3.15635768144E-02	Apriori rate (us/s)	-3.15632875252E-02	Resid rate (us/s)	-2.89289E-07	+/- 3.8E-10
Total phase (deg)	-83.1	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-165.4	+/- 2.0

ph/seg (deg)	58.8	RMS	16.4	Theor.	16.4	Amplitude	5.041 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.2	Search (2048X8)	5.000	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	7.926	Inc. frq. avg.	5.018	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.4	u,v (fr/asec)	183.682	-478.490		Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011		
		Control file:	cf_1234_gmva	Input file:	/Exps2/f191a/FRINGE/1234/No0007//iY..0QR3WR	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00		

Fringe quality 9



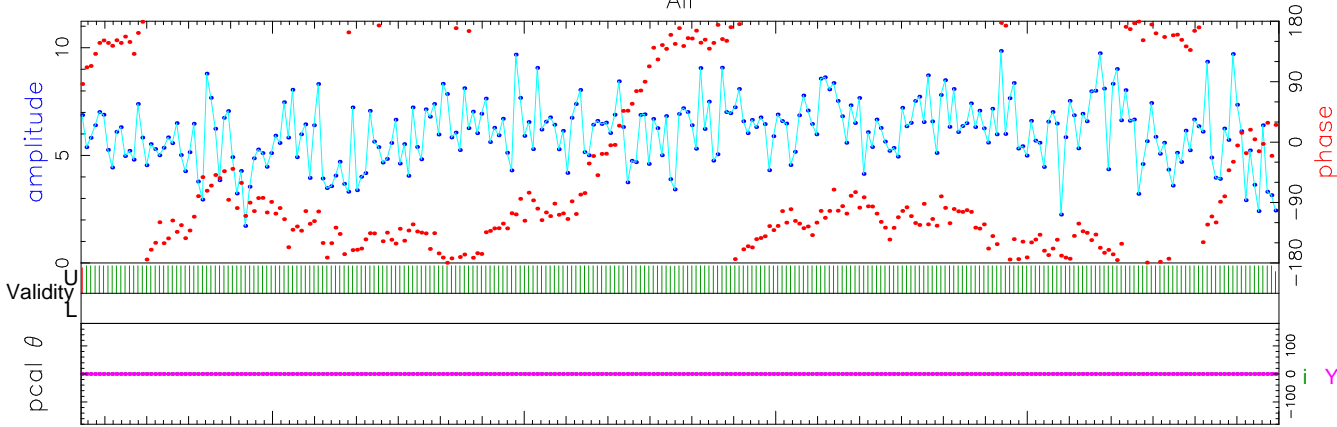
SNR 43.2
 Int time 285.318
 Amp 3.746
 Phase -328.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.070721
 MBD -0.000005
 Fringe rate (Hz)
 -0.024884
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174206
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -138.5
 3.7
 522.1
 U/L 558/0
 i 0
 Y 0
 i:Y 0:0
 i:Y 0:0
 i 1000
 Y 1000
 i W06UR
 Y W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Mani PC
 PC amp

Chan ids
 Chan ids

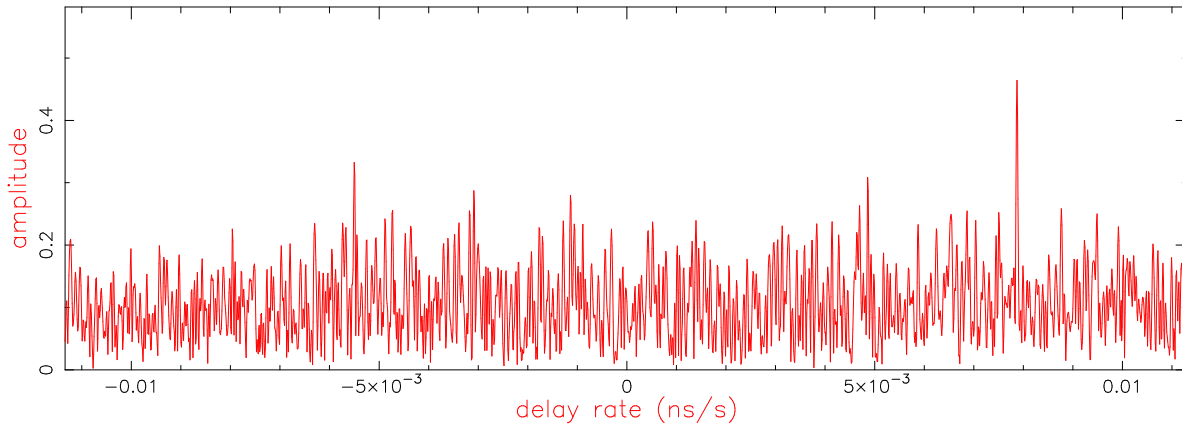
Group delay (usec)(sbd)	3.63133913280E+02	Apriori delay (usec)	3.63063190485E+02	Resid mbdelay (usec)	-4.78075E-06	+/-	4.0E-04
Sband delay (usec)	3.63133911485E+02	Apriori clock (usec)	-7.5829983E+00	Resid sbdelay (usec)	7.07210E-02	+/-	4.0E-04
Phase delay (usec)	3.63063186020E+02	Apriori clockrate (us/s)	-2.9000001E-07	Resid phdelay (usec)	-4.46480E-06	+/-	8.5E-08
Delay rate (us/s)	-3.15635764048E-02	Apriori rate (us/s)	-3.15632875252E-02	Resid rate (us/s)	-2.88880E-07	+/-	5.2E-10
Total phase (deg)	-245.8	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-328.0	+/-	2.6

ph/seg (deg)	59.8	Theor.	22.1	Amplitude	3.746 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	73.2	Search (2048X8)	3.733	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	5.632	Inc. frq. avg.	3.744	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	3.744	u,v (fr/asec)	183.682 -478.490	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

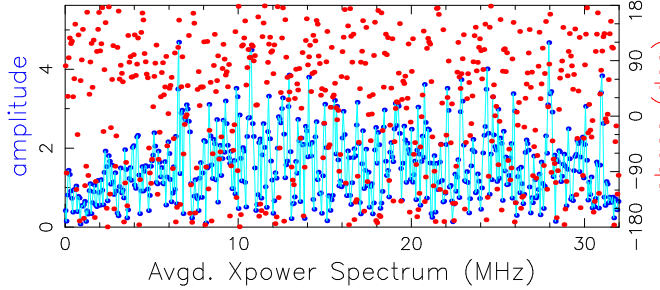
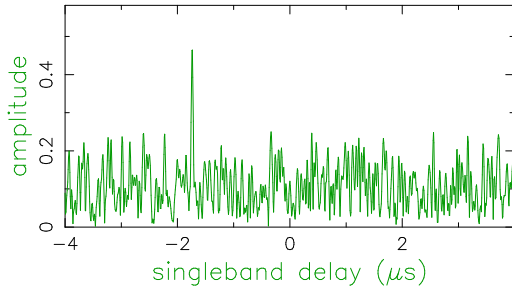
i: az 249.4 el 49.9 pa 50.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//iY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//iY.W.159.0QR3WR

Fringe quality 0

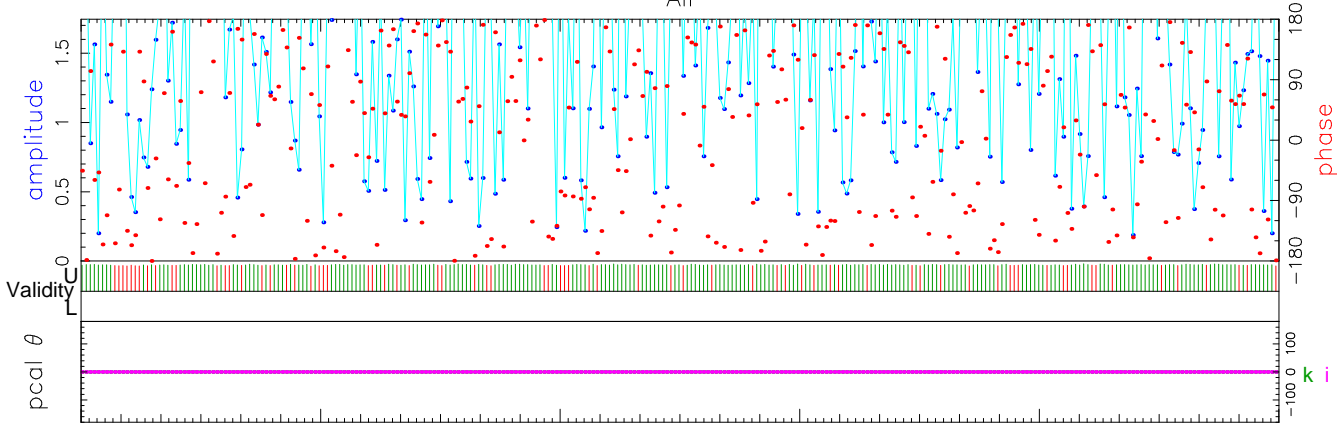


SNR 5.5
 Int time 287.861
 Amp 0.582
 Phase 259.2
 PFD 9.9e-01
 Delays (us)
 SBD -1.738222
 MBD 0.000007
 Fringe rate (Hz)
 0.677258
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174202
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
 170.5
 0.6
 290.5
 U/L 586/0
 k 1000
 i 0
 k:i 0:0
 k:i 0:0
 k 1000
 i 1000
 k W06UL
 i W06UL

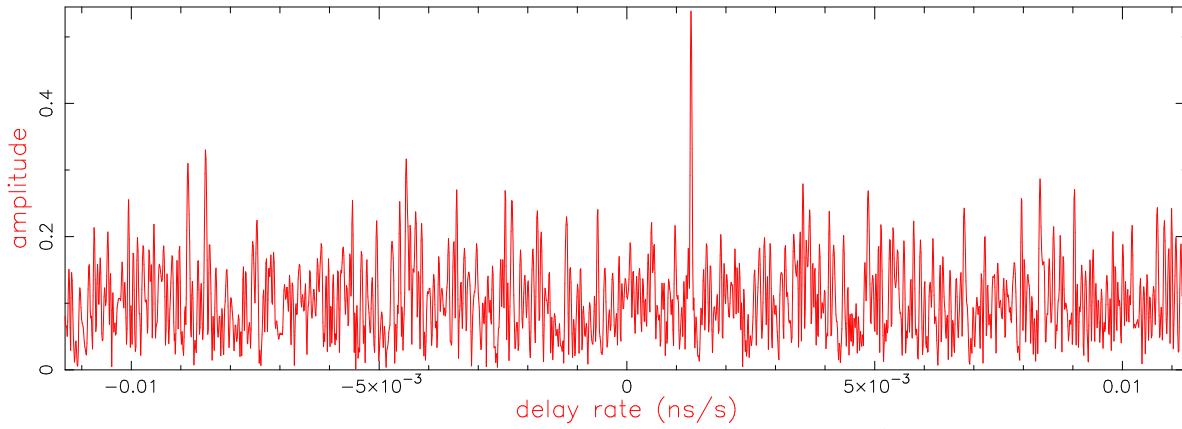
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-6.56772405615E+03	Apriori delay (usec)	-6.56598583777E+03	Resid mbdelay (usec)	7.22138E-06	+/-	3.1E-03
Sband delay (usec)	-6.56772405927E+03	Apriori clock (usec)	2.4096573E+01	Resid sbdelay (usec)	-1.73822E+00	+/-	3.1E-03
Phase delay (usec)	-6.56598583227E+03	Apriori clockrate (us/s)	1.6634000E-07	Resid phdelay (usec)	5.49843E-06	+/-	6.7E-07
Delay rate (us/s)	1.93877698904E+00	Apriori rate (us/s)	1.93876912674E+00	Resid rate (us/s)	7.86230E-06	+/-	3.9E-09
Total phase (deg)	235.7	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	259.2	+/-	20.9

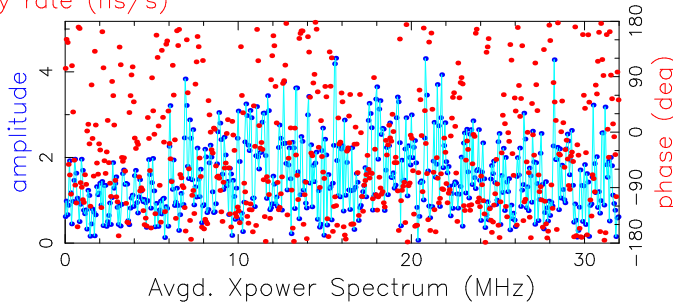
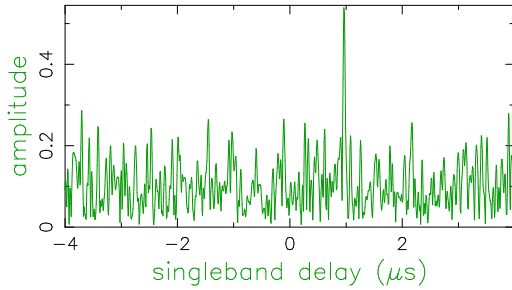
ph/seg (deg)	RMS 89.3	Theor. 178.6	Amplitude Search (2048X8)	0.582 +/- 0.106	0.463	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	356.6	311.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.4	Inc. seg. avg.	0.376	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	2.0	18.2	Inc. frq. avg.	0.561	0.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

k: az 86.3 el 25.9 pa -61.9 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ki..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ki.W.112.0QR3WR



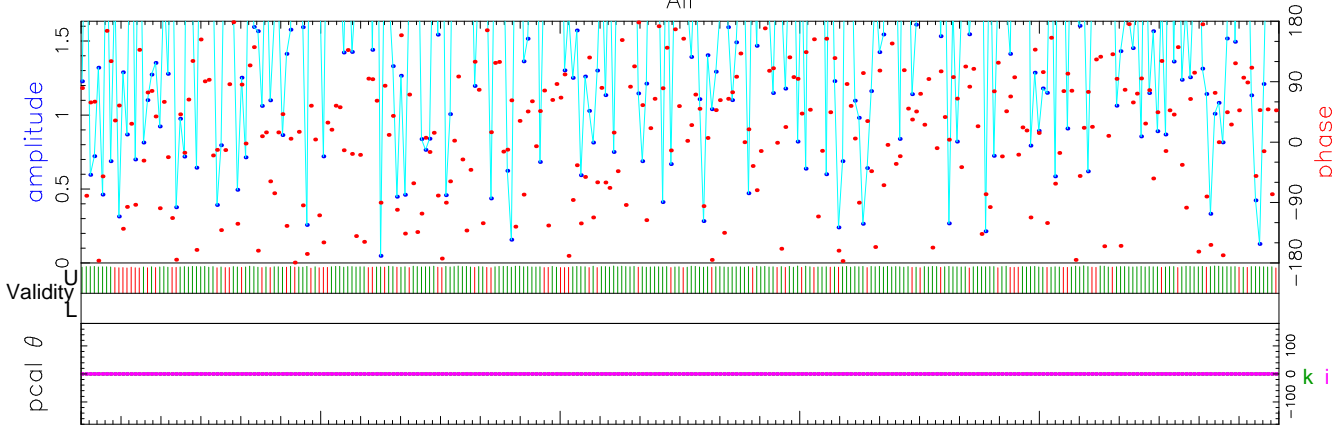
Fringe quality 0
SNR 6.3
Int time 287.867
Amp 0.545
Phase -178.3
PFD 4.3e-02
Delays (us)
SBD 0.963429
MBD 0.000004
Fringe rate (Hz)
0.111652
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
59.0
0.5
636.3
U/L 586/0
k 1000
i 0
k:i 0:0
k:i 0:0
k 1000
i 1000
k W06UR
i W06UR

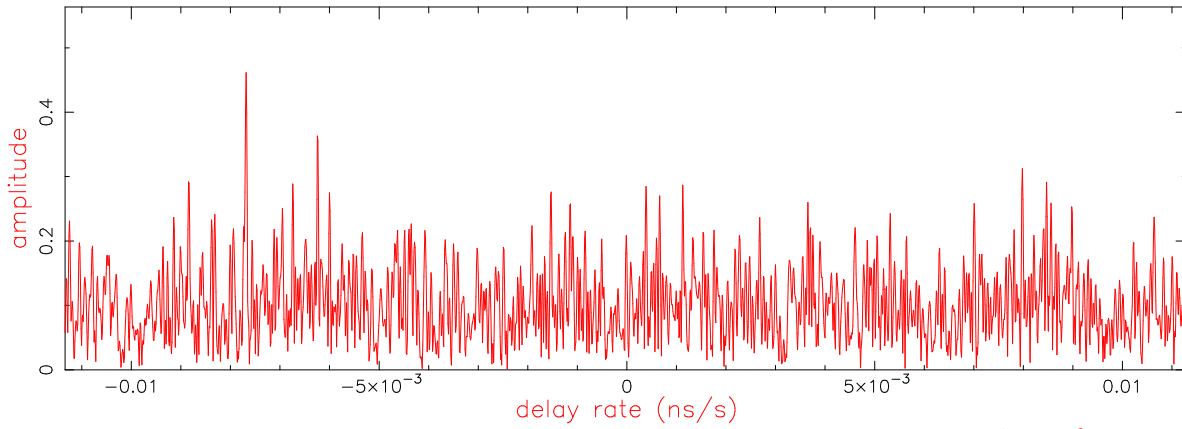
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56502240943E+03	Apriori delay (usec)	-6.56598583777E+03	Resid mbdelay (usec)	4.37209E-06	+/-	2.7E-03
Sband delay (usec)	-6.56502240877E+03	Apriori clock (usec)	2.4096573E+01	Resid sbdelay (usec)	9.63429E-01	+/-	2.7E-03
Phase delay (usec)	-6.56598583587E+03	Apriori clockrate (us/s)	1.6634000E-07	Resid phdelay (usec)	1.90103E-06	+/-	5.9E-07
Delay rate (us/s)	1.93877042290E+00	Apriori rate (us/s)	1.93876912674E+00	Resid rate (us/s)	1.29616E-06	+/-	3.4E-09
Total phase (deg)	-201.9	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	-178.3	+/-	18.2

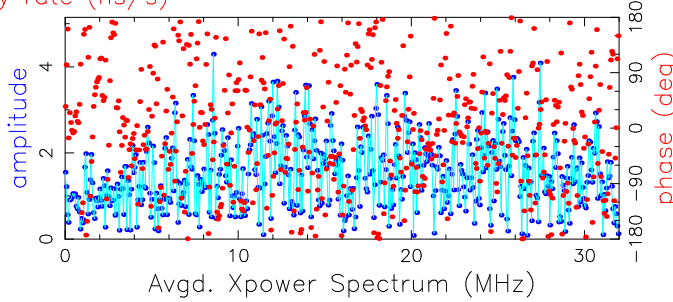
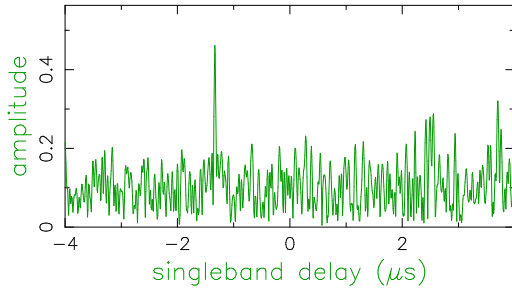
ph/seg (deg)	89.6	Theor.	156.0	Amplitude	0.545 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	296.2	Search (2048X8)	0.532	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.386	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.535	Inc. frq. avg.	0.535	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

k: az 86.3 el 25.9 pa -61.9 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ki..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ki.W.138.0QR3WR

Fringe quality 0

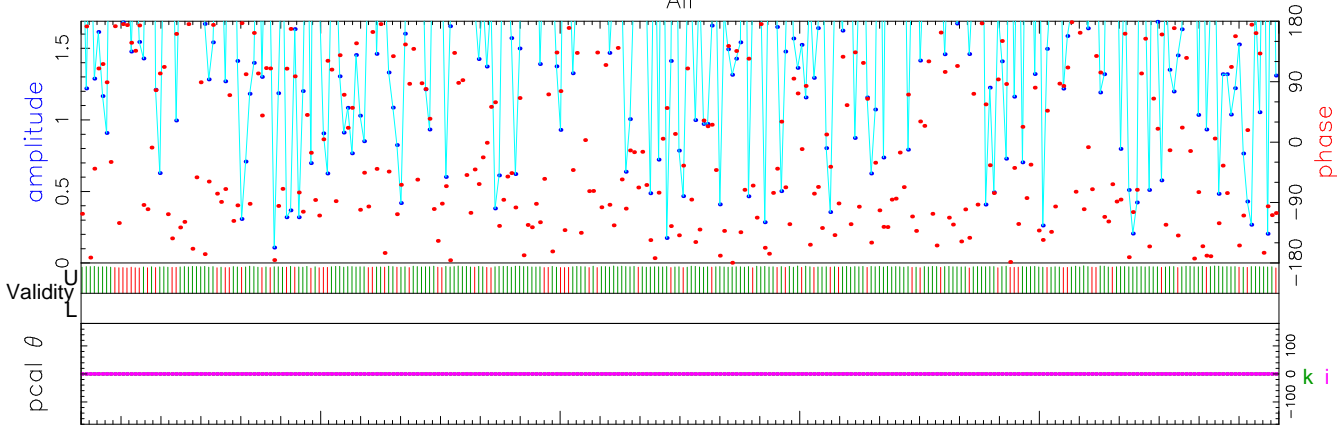


SNR 5.4
Int time 287.861
Amp 0.563
Phase 17.8
PFD 1.0e+00
Delays (us)
SBD -1.334379
MBD -0.000005
Fringe rate (Hz)
-0.661019
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



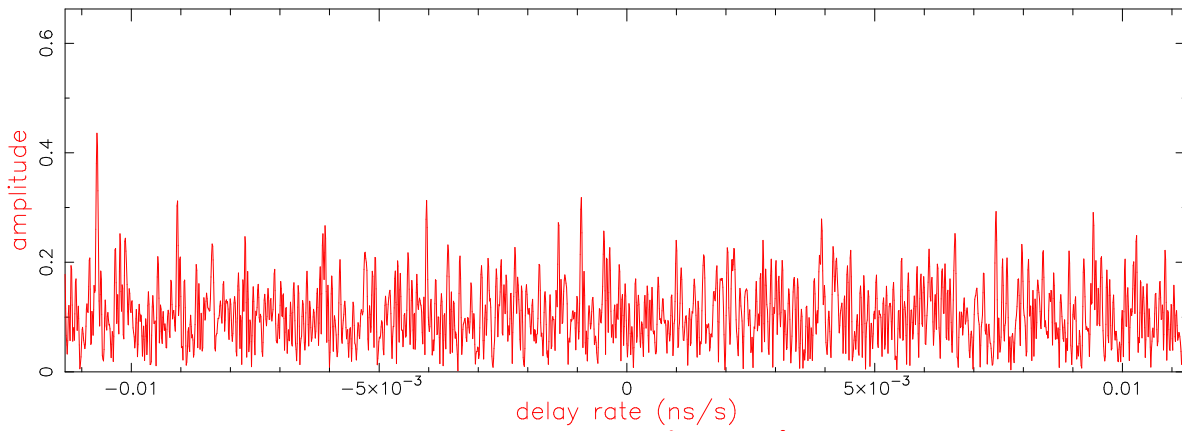
86204.00
-126.0
0.6
342.2
U/L 586/0
k 1000
i 0
k:i 0:0
k:i 0:0
k 1000
i 1000
k W06UL
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56732021248E+03	Apriori delay (usec)	-6.56598583777E+03	Resid mbdelay (usec)	-5.07893E-06	+/-	3.2E-03
Sband delay (usec)	-6.56732021677E+03	Apriori clock (usec)	2.4096573E+01	Resid sbdelay (usec)	-1.33438E+00	+/-	3.2E-03
Phase delay (usec)	-6.56598584183E+03	Apriori clockrate (us/s)	1.6634000E-07	Resid phdelay (usec)	-4.06402E-06	+/-	6.9E-07
Delay rate (us/s)	1.93876145297E+00	Apriori rate (us/s)	1.93876912674E+00	Resid rate (us/s)	-7.67377E-06	+/-	4.0E-09
Total phase (deg)	354.3	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	17.8	+/-	21.3

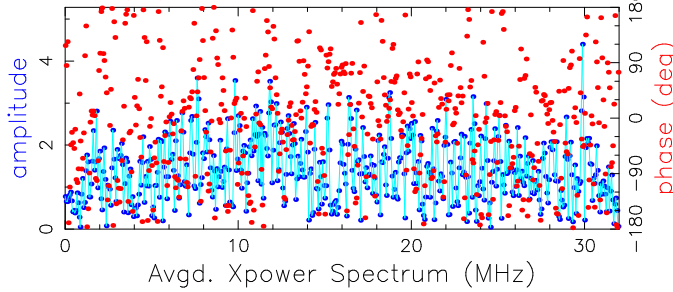
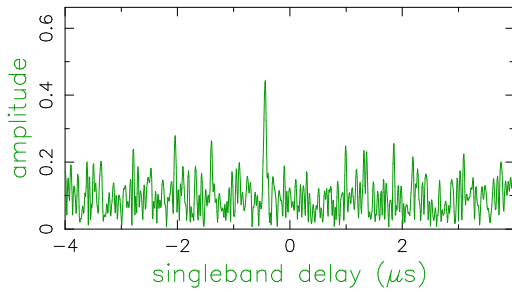
ph/seg (deg)	90.5	Theor.	182.6	Amplitude	0.563 +/- 0.105	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	356.8	Search (2048X8)	0.459	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.366	Inc. seg. avg.	0.366	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.4	Inc. frq. avg.	0.552	Inc. frq. avg.	0.552	Sample rate (MSamp/s):	64	mb window (us)	-0.000 0.000

k: az 86.3 el 25.9 pa -61.9 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ki..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ki.W.147.0QR3WR



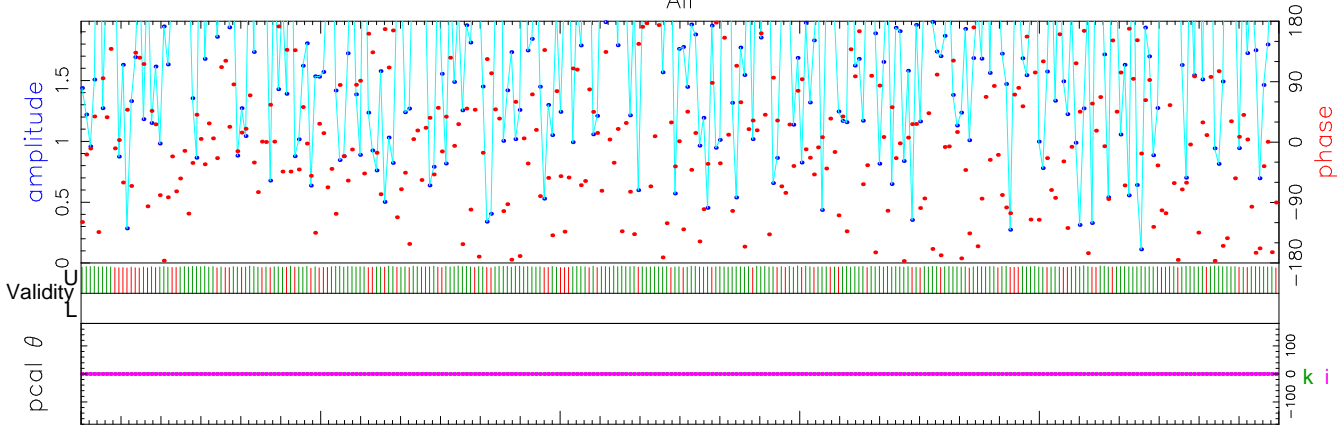
Fringe quality 0

SNR 5.2
Int time 287.867
Amp 0.663
Phase 47.4
PFD 1.0e+00
Delays (us)
SBD -0.439917
MBD -0.000006
Fringe rate (Hz)
-0.920680
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



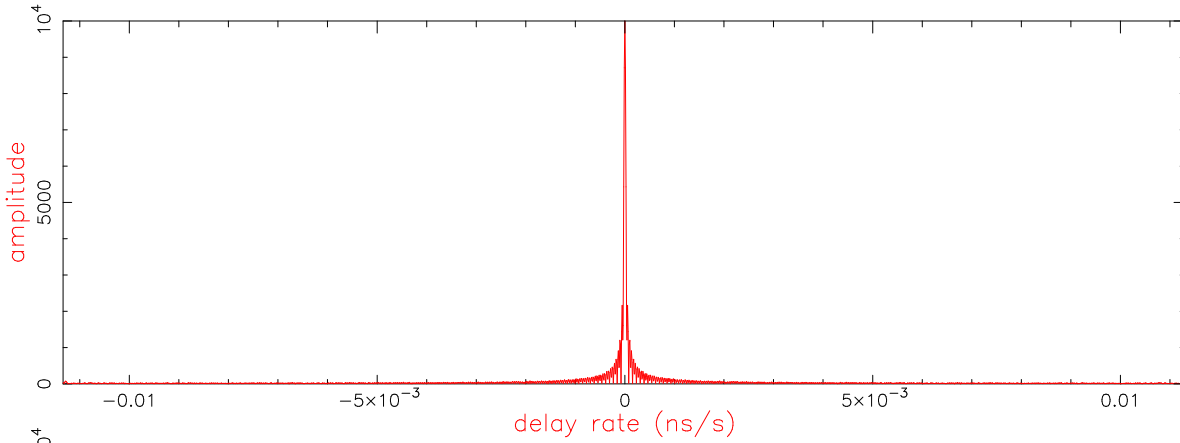
86204.00
-8.2
0.6
456.7
U/L 586/0
k 1000
i 0
k:i 0:0
k:i 0:0
k 1000
i 1000
k W06UR
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56642575352E+03	Apriori delay (usec)	-6.56598583777E+03	Resid mbdelay (usec)	-5.77041E-06	+/-	3.3E-03
Sband delay (usec)	-6.56642575477E+03	Apriori clock (usec)	2.4096573E+01	Resid sbdelay (usec)	-4.39917E-01	+/-	3.3E-03
Phase delay (usec)	-6.56598583803E+03	Apriori clockrate (us/s)	1.6634000E-07	Resid phdelay (usec)	-2.63436E-07	+/-	7.1E-07
Delay rate (us/s)	1.93875843856E+00	Apriori rate (us/s)	1.93876912674E+00	Resid rate (us/s)	-1.06882E-05	+/-	4.1E-09
Total phase (deg)	23.8	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	47.4	+/-	22.2

ph/seg (deg)	91.6	Theor.	189.7	Amplitude	0.663 +/- 0.128	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	379.6	Search (2048X8)	0.434	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.428	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.3	Inc. frq. avg.	0.636	Inc. frq. avg.	0.636	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

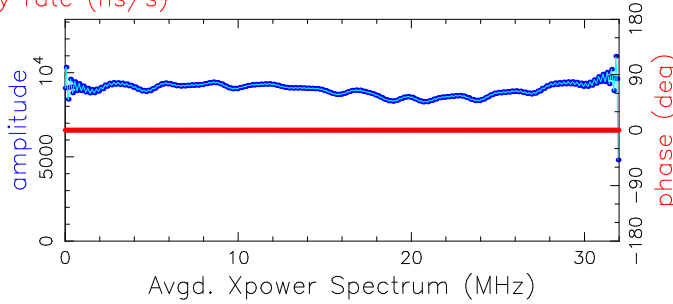
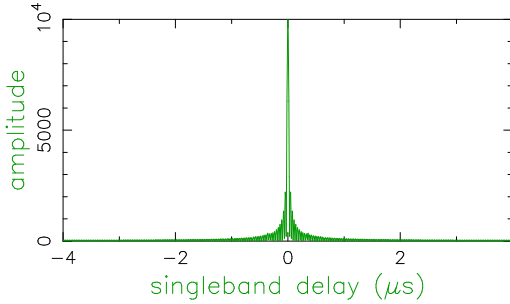
k: az 86.3 el 25.9 pa -61.9 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ki..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ki.W.158.0QR3WR



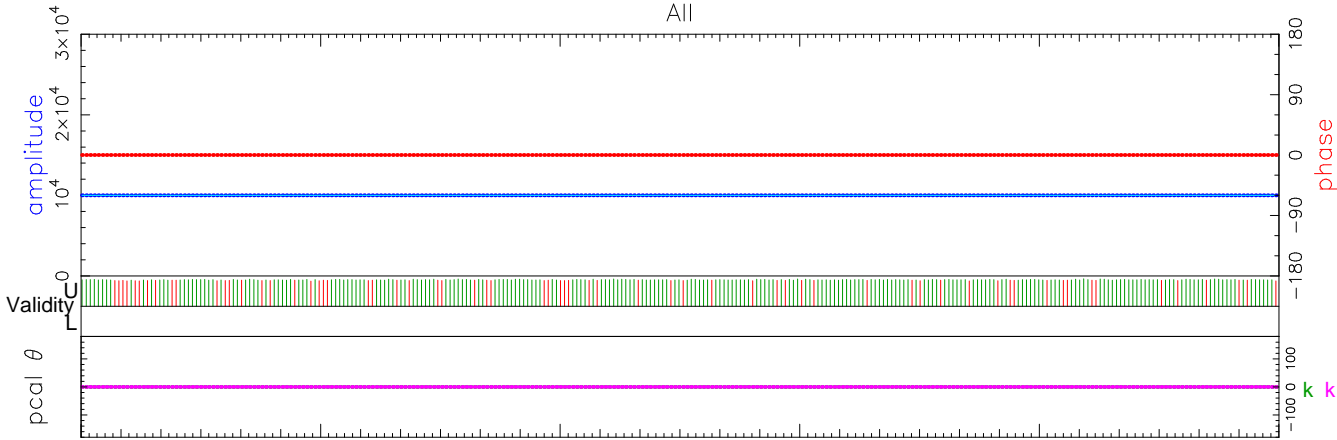
Fringe quality 9

SNR 116092.6
Int time 288.359
Amp 10000.004
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174204
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
0.2
10000.0
513.0
U/L 586/0
k 1000
k 1000
k:k 0:0
k:k 0:0
k 1000
k 1000
k W06UL
k W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	5.60363788223E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.99675E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	5.56930753737E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.56931E-09	+/- 3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.004 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0	0.0	0.0	Search (2048X8)	10000.004	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	0.0	0.0	Inc. frq. avg.	10000.004	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

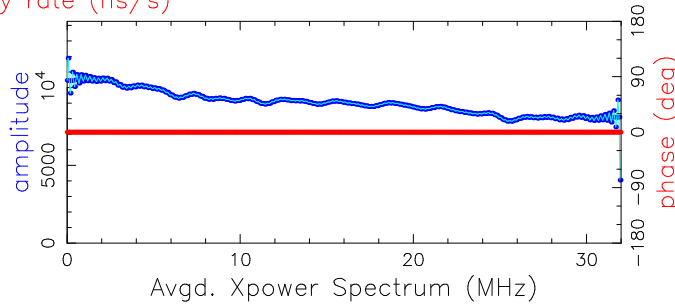
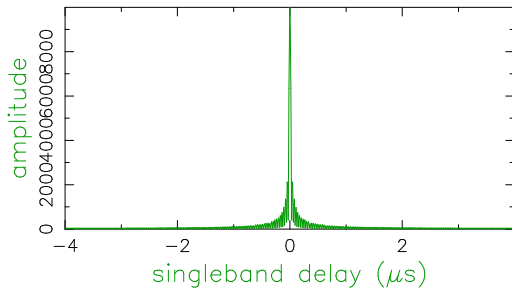
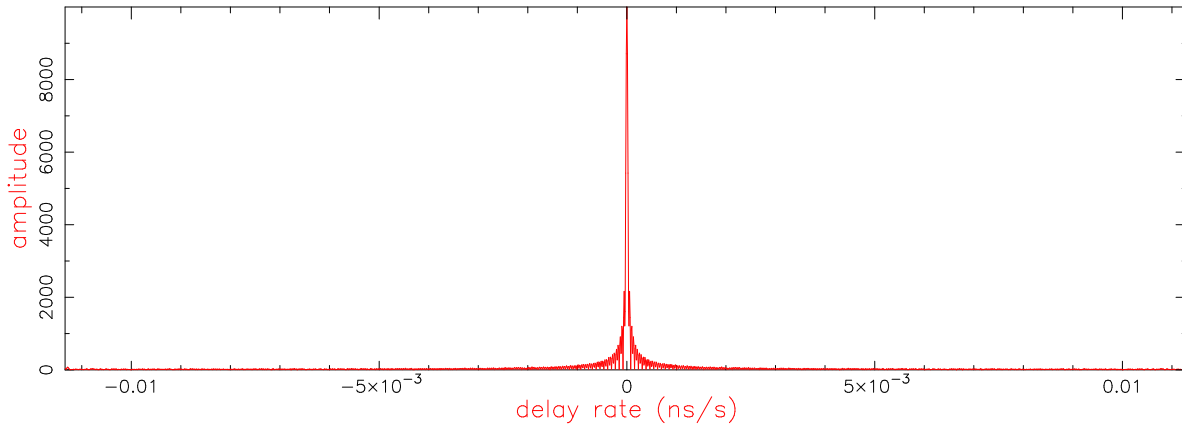
k: az 86.3 el 25.9 pa -61.9 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kk.W.137.0QR3WR

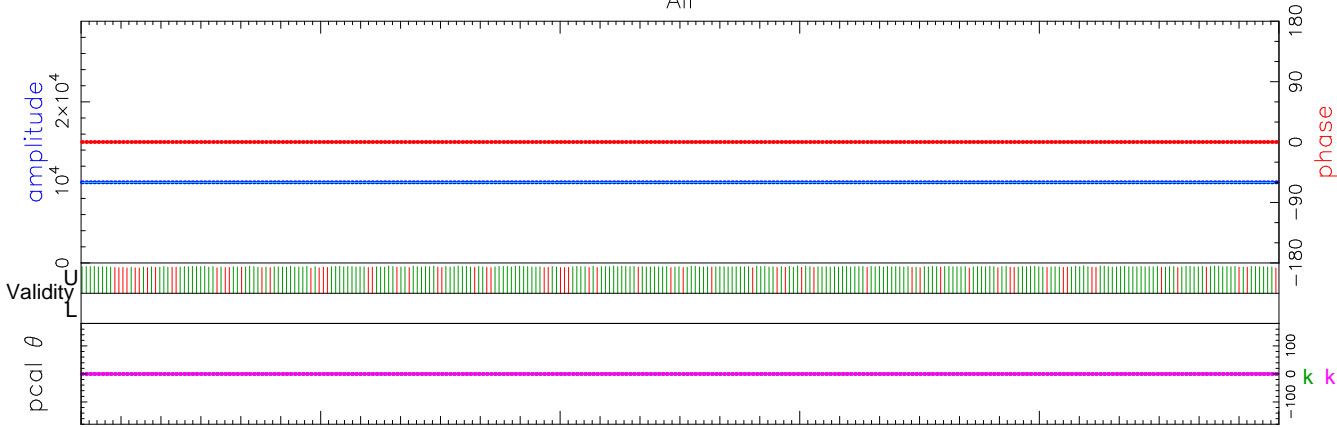
Fringe quality 9

SNR 116094.3
Int time 288.368
Amp 9999.999
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
0.2 Phase
10000.0 Ampl.
513.0 Sbd box
U/L 586/0 APs used
k 1000 PC freqs
k 1000 PC freqs
k:k 0:0 PC phase
k:k 0:0 Mani PC
k 1000 PC amp
k W06UR Chan ids
k W06UR Chan ids

Group delay (usec)(sbd) -5.65635005336E-06 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -5.65635E-06 +/- 1.5E-07
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-07
Phase delay (usec) 5.25316930890E-09 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.25317E-09 +/- 3.2E-11
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 1.8E-13
Total phase (deg) 0.2 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.2 +/- 0.0

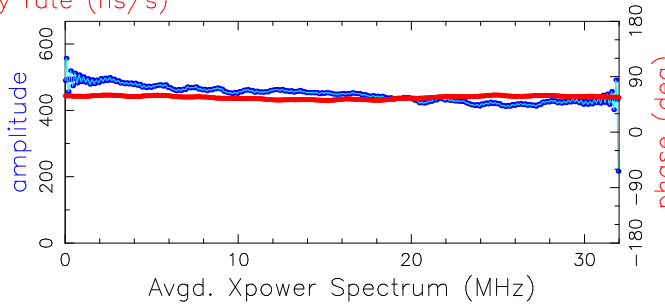
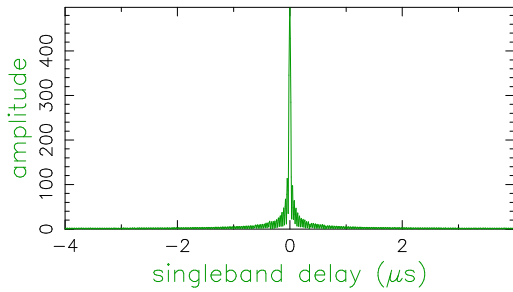
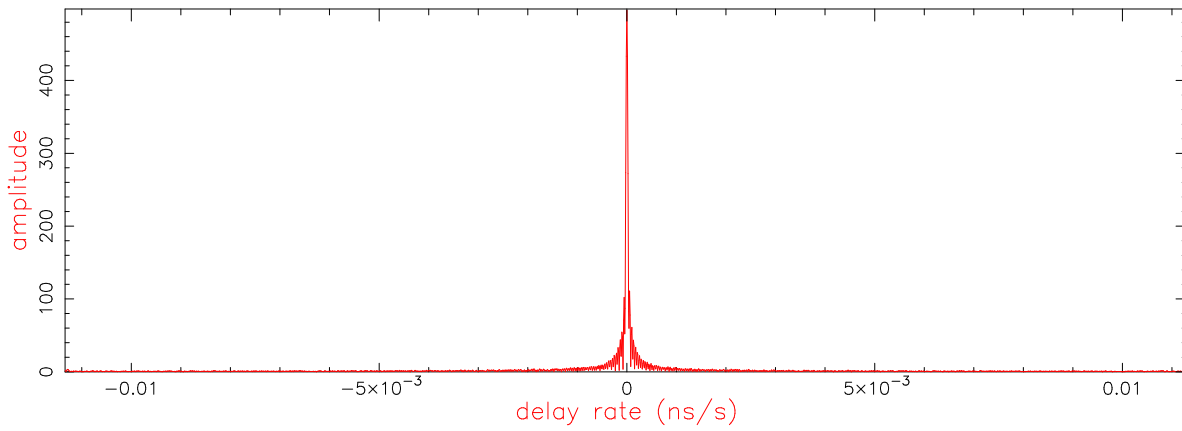
RMS Theor. Amplitude 9999.999 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X8) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 86.3 el 25.9 pa -61.9 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kk.W.146.0QR3WR

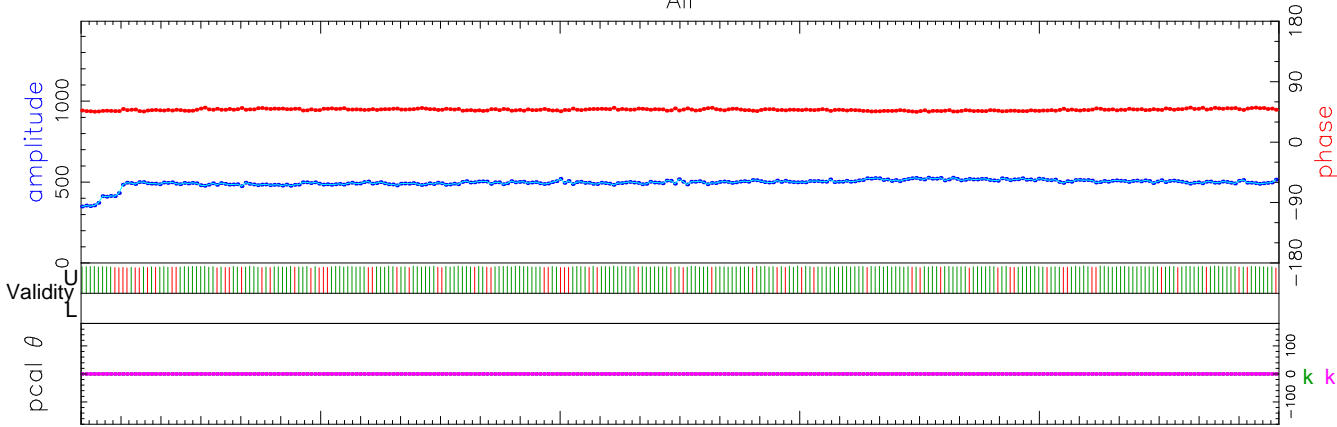
Fringe quality 9

SNR 5782.5
Int time 288.359
Amp 498.095
Phase 82.6
PFD 0.0e+00
Delays (us)
SBD -0.001503
MBD -0.000005
Fringe rate (Hz)
-0.000016
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
48.1
496.2
512.8
U/L 586/0
k 1000
k 1000
k:k 0:0
k:k 0:0
k 1000
k 1000
k W06UL
k W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.50153403554E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.08375E-06	+/-	3.0E-06
Sband delay (usec)	-1.50250000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.50250E-03	+/-	3.0E-06
Phase delay (usec)	1.55213074875E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.55213E-06	+/-	6.4E-10
Delay rate (us/s)	-1.84933538711E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-1.84934E-10	+/-	3.7E-12
Total phase (deg)	82.6	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	82.6	+/-	0.0

ph/seg (deg)	1.4	0.2	Amplitude	498.095 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	4.9	0.3	Search (2048X8)	496.176	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	0.0	Inc. seg. avg.	496.331	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011	
			Inc. frq. avg.	496.195	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00 0.00

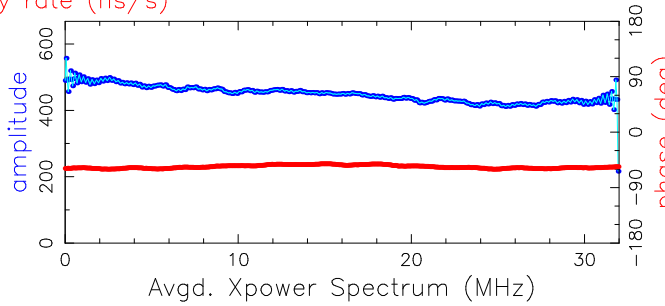
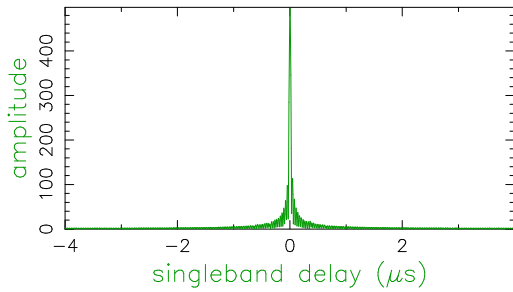
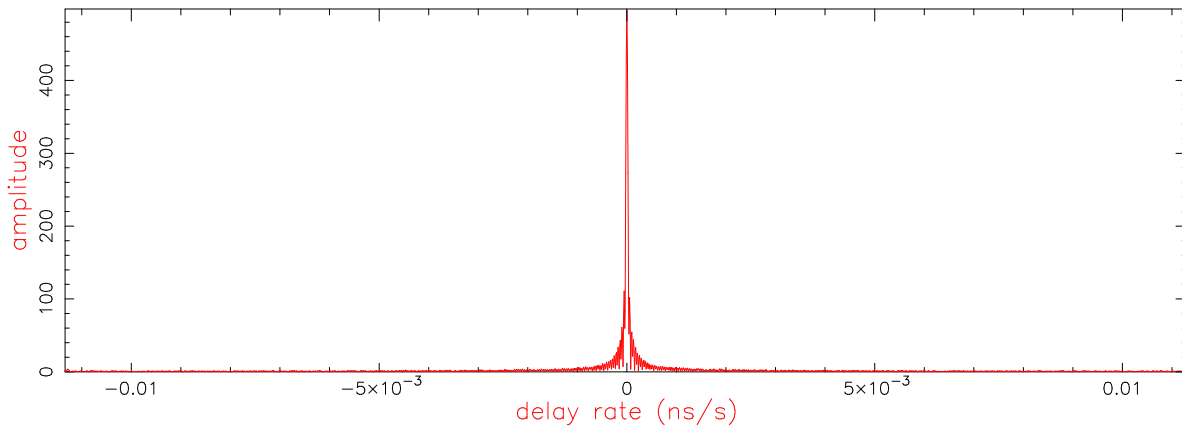
k: az 86.3 el 25.9 pa -61.9 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kk.W.160.0QR3WR

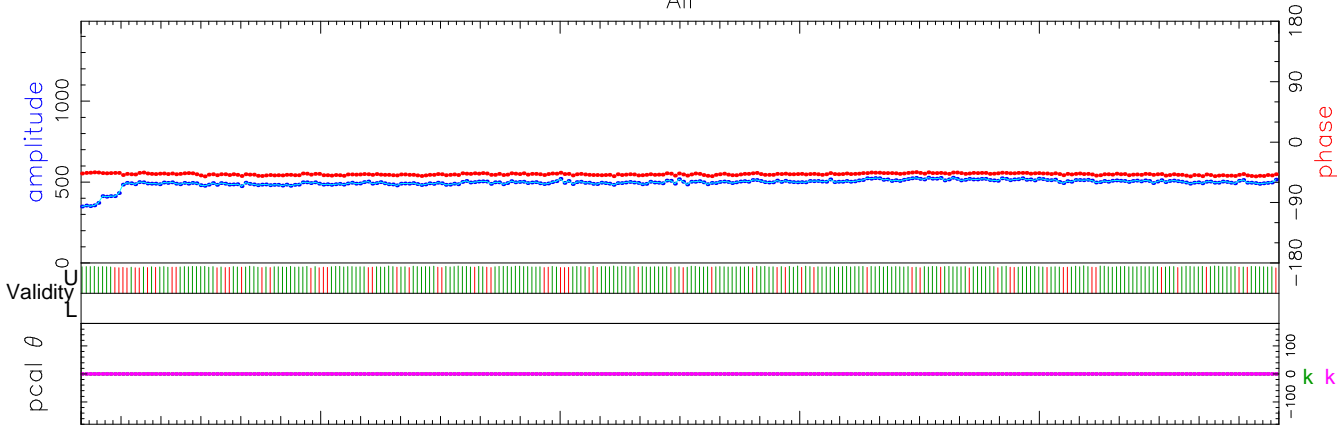
Fringe quality 9

SNR 5782.4
Int time 288.368
Amp 498.080
Phase -82.6
PFD 0.0e+00
Delays (us)
SBD 0.001503
MBD -0.000005
Fringe rate (Hz)
0.000016
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



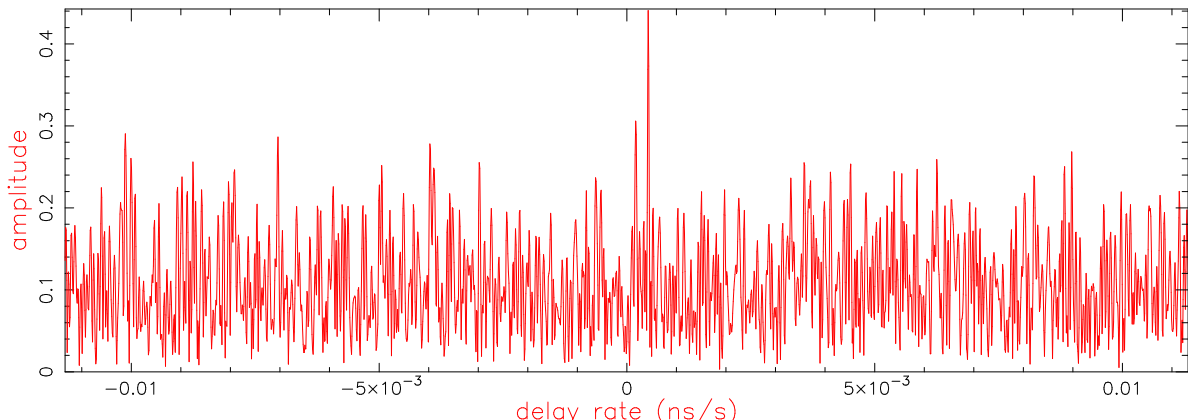
86204.00
-47.9
496.2
513.2
U/L 586/0
k 1000
k 1000
k:k 0:0
k:k 0:0
k 1000
k 1000
k W06UR
k W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

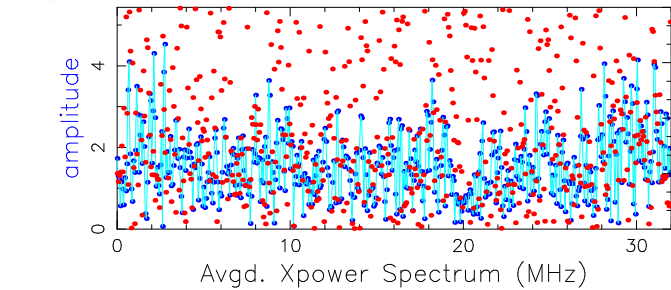
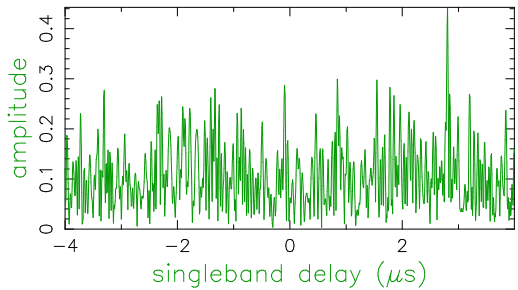
Group delay (usec)(sbd)	1.50335195583E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.69871E-06	+/-	3.0E-06
Sband delay (usec)	1.50250000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.50250E-03	+/-	3.0E-06
Phase delay (usec)	-1.54304556704E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.54305E-06	+/-	6.4E-10
Delay rate (us/s)	1.84933538711E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	1.84934E-10	+/-	3.7E-12
Total phase (deg)	-82.6	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-82.6	+/-	0.0

ph/seg (deg)	1.4	0.2	Amplitude	498.080 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	4.9	0.3	Search (2048X8)	496.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	0.0	Inc. seg. avg.	496.316	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	496.179	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00 0.00

k: az 86.3 el 25.9 pa -61.9 k: az 86.3 el 25.9 pa -61.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kk..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kk.W.171.0QR3WR



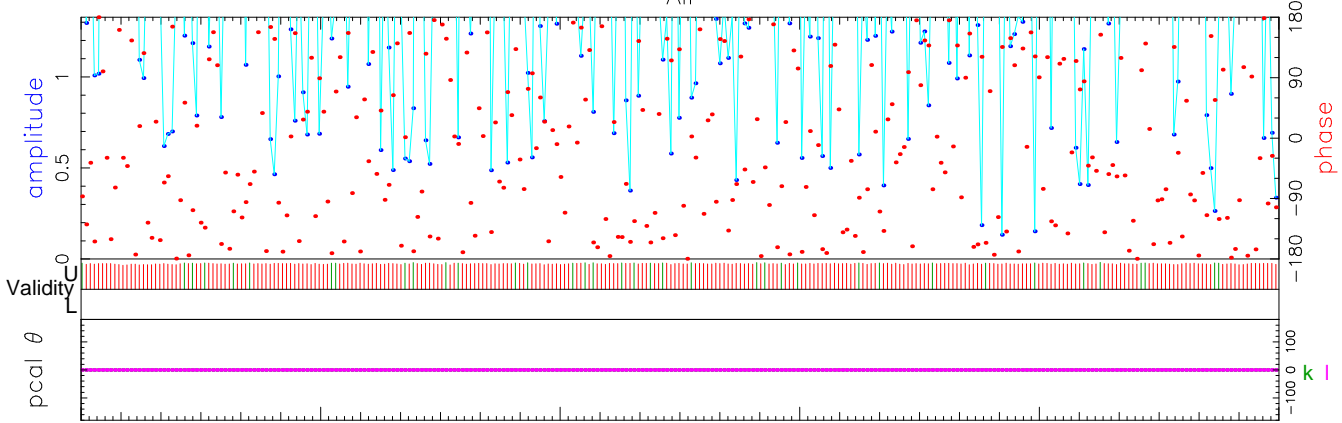
Fringe quality 0
SNR 5.1
Int time 279.111
Amp 0.443
Phase -287.3
PFD 1.0e+00
Delays (us)
SBD 2.803361
MBD 0.000006
Fringe rate (Hz)
0.036867
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174205
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



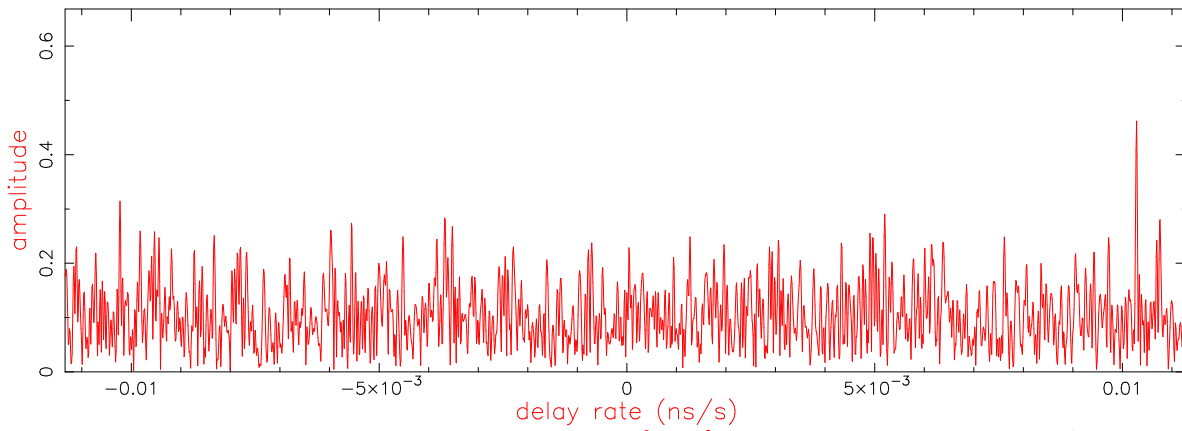
86204.00
-138.1
0.4
871.8
U/L 586/0
k 1000
l 1000
k:l 0:0
k:l 0:0
k 1000
l 1000
k W06UL
l W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.45345854878E+03	Apriori delay (usec)	-1.45626190482E+03	Resid mbdelay (usec)	5.84455E-06	+/-	3.4E-03
Sband delay (usec)	-1.45345854382E+03	Apriori clock (usec)	1.0343160E+01	Resid sbdelay (usec)	2.80336E+00	+/-	3.4E-03
Phase delay (usec)	-1.45626190927E+03	Apriori clockrate (us/s)	4.6340000E-08	Resid phdelay (usec)	-4.45278E-06	+/-	7.3E-07
Delay rate (us/s)	9.78415034575E-02	Apriori rate (us/s)	9.78410754674E-02	Resid rate (us/s)	4.27990E-07	+/-	4.2E-09
Total phase (deg)	-100.4	Apriori accel (us/s/s)	6.05269075719E-06	Resid phase (deg)	-287.3	+/-	22.7

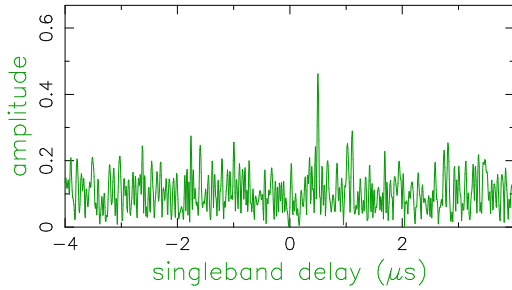
ph/seg (deg)	91.8	Theor.	194.1	Amplitude	0.443 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	386.6	Search (2048X8)	0.431	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.273	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.433	Inc. frq. avg.	0.433	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

k: az 86.3 el 25.9 pa -61.9 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -576.175 -329.119 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kl.0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kl.W.141.0QR3WR

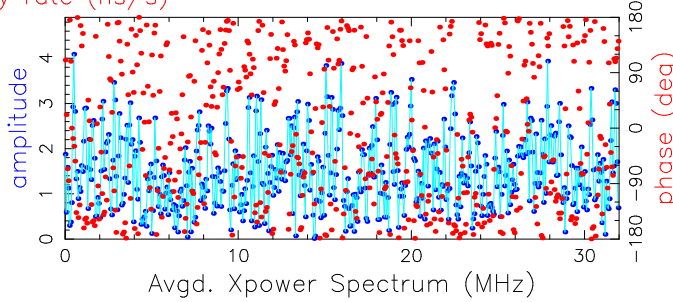


Fringe quality 0

SNR 5.3
 Int time 279.119
 Amp 0.668
 Phase -139.8
 PFD 1.0e+00
 Delays (us)
 SBD 0.498194
 MBD 0.000005
 Fringe rate (Hz)
 0.884958
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



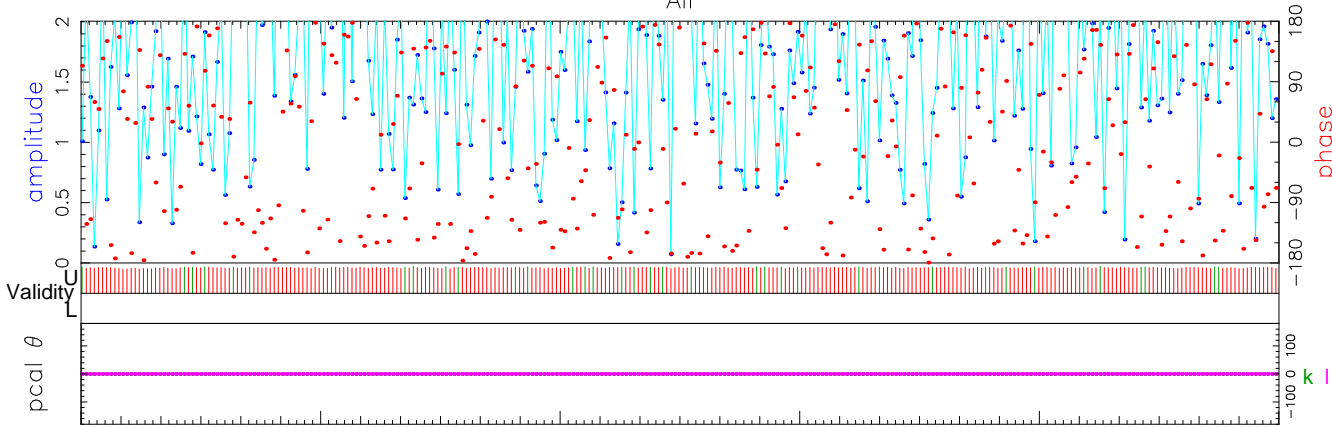
delay rate (ns/s)



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174206
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 178.5
 0.7
 576.8
 U/L 586/0
 k 1000
 l 1000
 k:l 0:0
 k:l 0:0
 k 1000
 l 1000
 k W06UR
 l W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

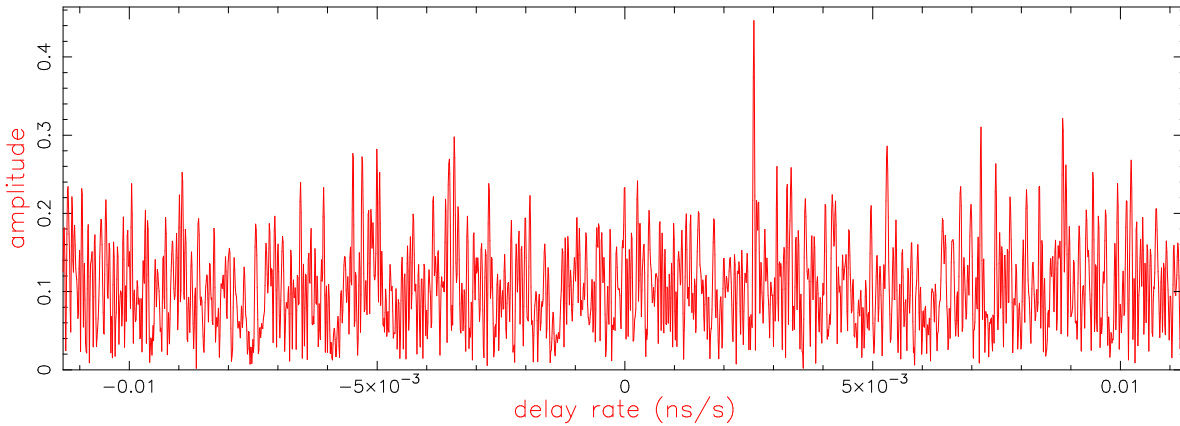
Group delay (usec)(sbd)	-1.45576370966E+03	Apriori delay (usec)	-1.45626190482E+03	Resid mbdelay (usec)	4.81360E-06	+/-	3.2E-03
Sband delay (usec)	-1.45576371082E+03	Apriori clock (usec)	1.0343160E+01	Resid sbdelay (usec)	4.98194E-01	+/-	3.2E-03
Phase delay (usec)	-1.45626189906E+03	Apriori clockrate (us/s)	4.6340000E-08	Resid phdelay (usec)	5.75738E-06	+/-	7.0E-07
Delay rate (us/s)	9.78513489499E-02	Apriori rate (us/s)	9.78410754674E-02	Resid rate (us/s)	1.02735E-05	+/-	4.0E-09
Total phase (deg)	-312.9	Apriori accel (us/s/s)	6.05269075719E-06	Resid phase (deg)	-139.8	+/-	21.6

ph/seg (deg)	RMS 90.6	Theor. 184.9	Amplitude 0.668 +/- 0.126	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	358.1	322.7	Search (2048X8) 0.459	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.6	18.8	Inc. seg. avg. 0.426	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.653	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

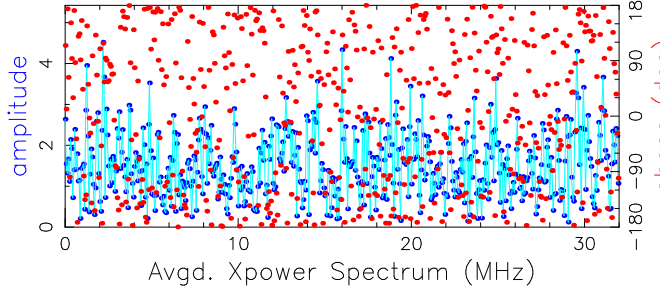
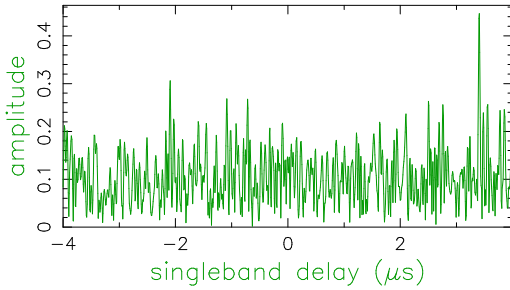
k: az 86.3 el 25.9 pa -61.9 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -576.175 -329.119 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kl..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kl.W.150.0QR3WR

Fringe quality 0



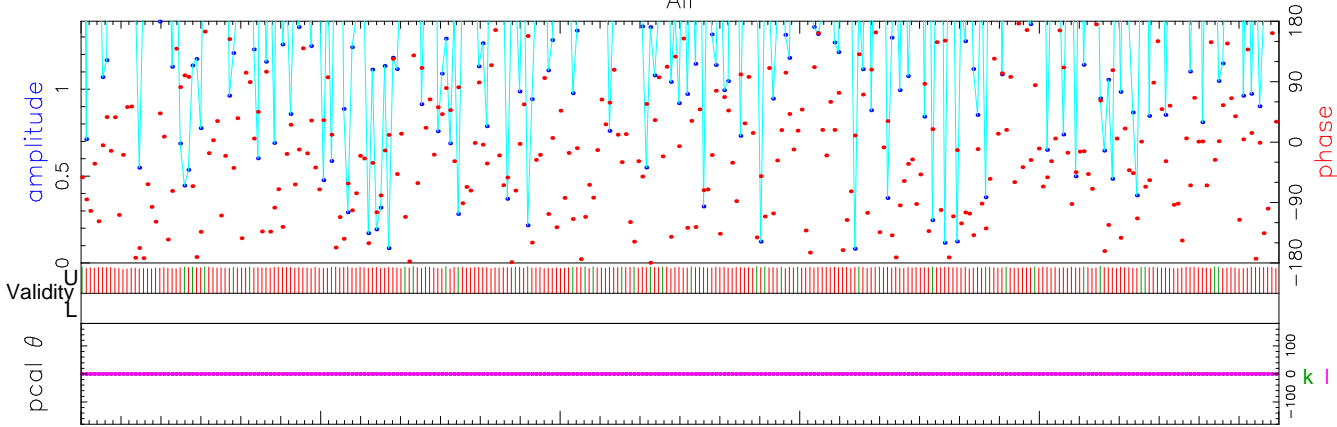
SNR 5.2
 Int time 279.114
 Amp 0.464
 Phase -326.5
 PFD 1.0e+00
 Delays (us)
 SBD 3.403164
 MBD 0.000006
 Fringe rate (Hz)
 0.223739
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174207
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -37.7
 0.5
 948.6
 U/L 586/0
 k 1000
 l 1000
 k:l 0:0
 k:l 0:0
 k 1000
 l 1000
 k W06UL
 l W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

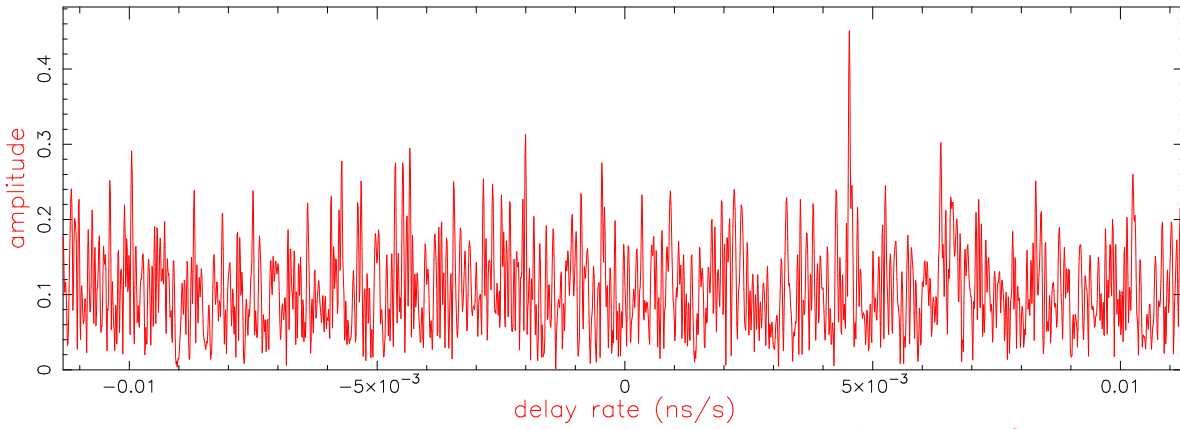
Group delay (usec)(sbd)	-1.45285873913E+03	Apriori delay (usec)	-1.45626190482E+03	Resid mbdelay (usec)	5.73727E-06	+/-	3.3E-03
Sband delay (usec)	-1.45285874082E+03	Apriori clock (usec)	1.0343160E+01	Resid sbdelay (usec)	3.40316E+00	+/-	3.3E-03
Phase delay (usec)	-1.45626190603E+03	Apriori clockrate (us/s)	4.6340000E-08	Resid phdelay (usec)	-1.21580E-06	+/-	7.1E-07
Delay rate (us/s)	9.78436728505E-02	Apriori rate (us/s)	9.78410754674E-02	Resid rate (us/s)	2.59738E-06	+/-	4.1E-09
Total phase (deg)	-139.6	Apriori accel (us/s/s)	6.05269075719E-06	Resid phase (deg)	-326.5	+/-	22.1

ph/seg (deg)	RMS 89.4	Theor. 189.2	Amplitude 0.464 +/- 0.089	Search (2048X8) 0.437	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	358.8	330.2	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.1	Inc. seg. avg. 0.283	0.448	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	1.7	19.3	Inc. frq. avg. 0.448		Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

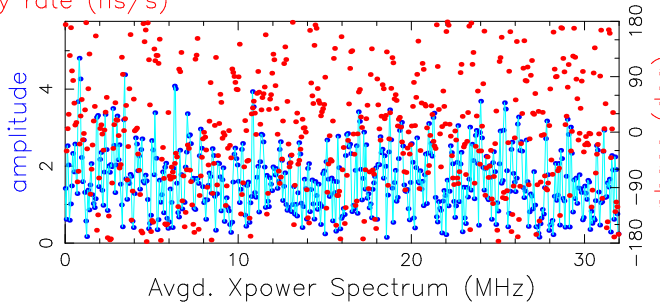
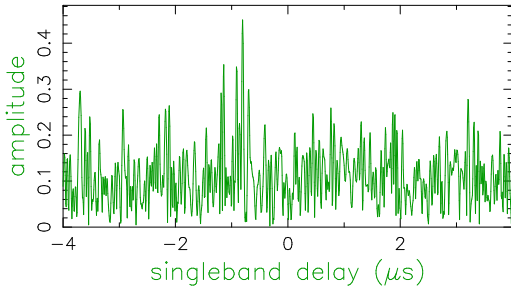
k: az 86.3 el 25.9 pa -61.9 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -576.175 -329.119 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kl..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kl.W.165.0QR3WR

Fringe quality 0

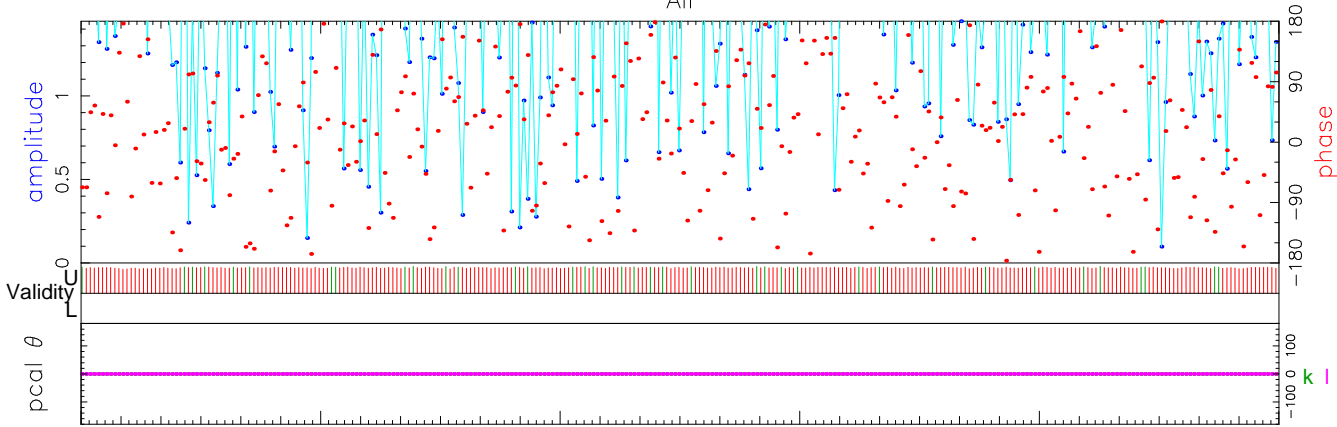


SNR 5.2
Int time 279.117
Amp 0.483
Phase 237.4
PFD 1.0e+00
Delays (us)
SBD -0.805824
MBD 0.000006
Fringe rate (Hz)
0.389681
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
31.0
0.5
409.9
U/L 586/0
k 1000
l 1000
k:l 0:0
k:l 0:0
k 1000
l 1000
k W06UR
l W06UL

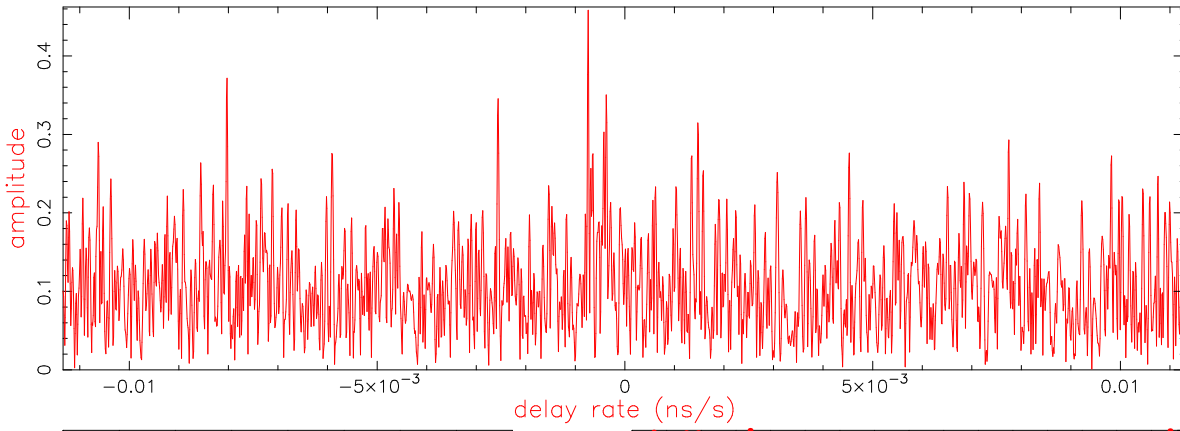
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.45706773179E+03	Apriori delay (usec)	-1.45626190482E+03	Resid mbdelay (usec)	5.70554E-06	+/-	3.3E-03
Sband delay (usec)	-1.45706772882E+03	Apriori clock (usec)	1.0343160E+01	Resid sbdelay (usec)	-8.05824E-01	+/-	3.3E-03
Phase delay (usec)	-1.45626190382E+03	Apriori clockrate (us/s)	4.6340000E-08	Resid phdelay (usec)	1.00009E-06	+/-	7.2E-07
Delay rate (us/s)	9.78455992783E-02	Apriori rate (us/s)	9.78410754674E-02	Resid rate (us/s)	4.52381E-06	+/-	4.1E-09
Total phase (deg)	64.3	Apriori accel (us/s/s)	6.05269075719E-06	Resid phase (deg)	237.4	+/-	22.2

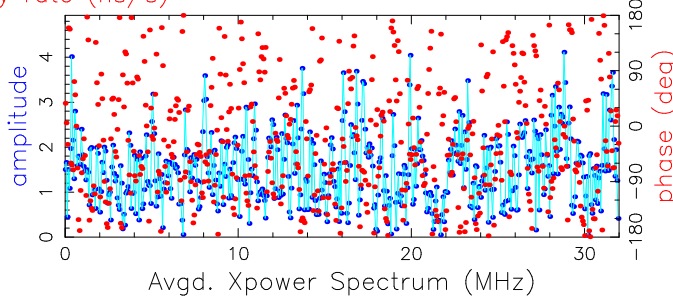
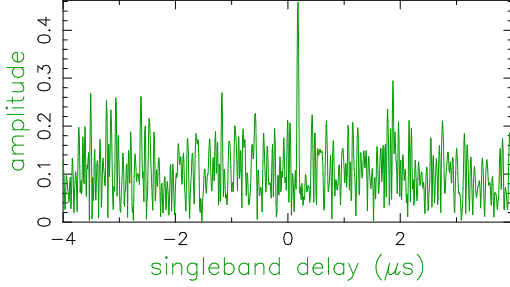
ph/seg (deg)	RMS 90.2	Theor. 190.1	Amplitude 0.483 +/- 0.094	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	381.7	331.9	Search (2048X8) 0.440	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000		
ph/frq (deg)	0.0	11.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	0.2	19.4	Inc. seg. avg. 0.308	Sample rate(MSamp/s): 64	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.473			ion window (TEC) 0.00 0.00	

k: az 86.3 el 25.9 pa -61.9 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) -576.175 -329.119 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kl..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kl.W.176.0QR3WR

Fringe quality 0

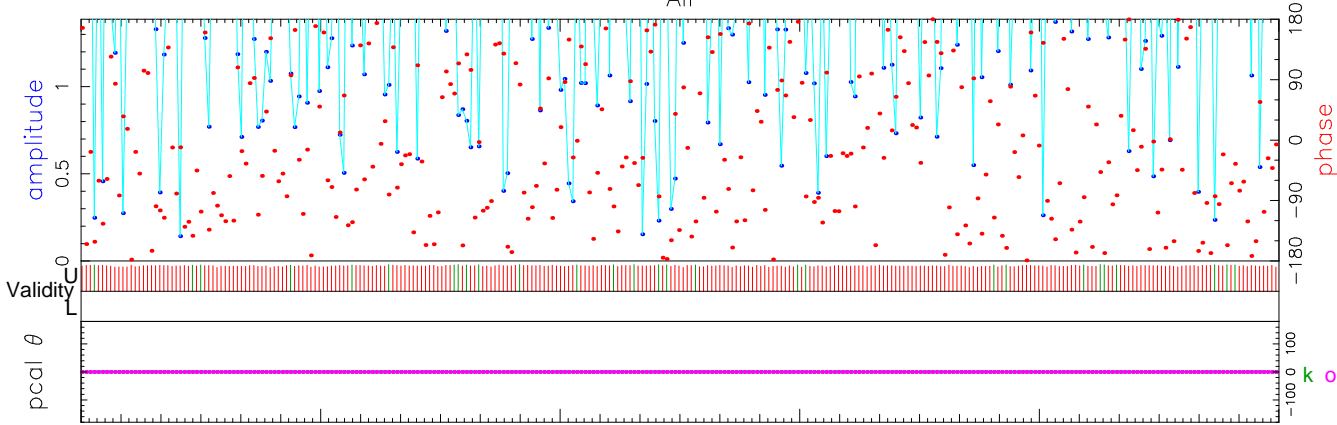


SNR 5.3
 Int time 276.986
 Amp 0.462
 Phase -237.6
 PFD 1.0e+00
 Delays (us)
 SBD 0.177500
 MBD -0.000007
 Fringe rate (Hz)
 -0.063716
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174206
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
 -107.8
 0.5
 535.7
 U/L 586/0
 k 1000
 o 1000
 k:o 0:0
 k:o 0:0
 k 1000
 o 1000
 k W06UL
 o W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	1.73542852325E+03	Apriori delay (usec)	1.73525102125E+03	Resid mbdelay (usec)	-7.16440E-06	+/- 3.3E-03
Sband delay (usec)	1.73542852125E+03	Apriori clock (usec)	-5.7908983E+00	Resid sbdelay (usec)	1.77500E-01	+/- 3.3E-03
Phase delay (usec)	1.73525101777E+03	Apriori clockrate (us/s)	-5.5021997E-07	Resid phdelay (usec)	-3.47607E-06	+/- 7.0E-07
Delay rate (us/s)	2.89946220426E-02	Apriori rate (us/s)	2.89953617271E-02	Resid rate (us/s)	-7.39685E-07	+/- 4.1E-09
Total phase (deg)	-248.3	Apriori accel (us/s/s)	-1.16458885566E-05	Resid phase (deg)	-237.6	+/- 21.8

ph/seg (deg)	RMS 93.0	Theor. 186.7	Amplitude 0.462 +/- 0.088	Search (2048X8) 0.452	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	374.6	325.9	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	10.9	Inc. seg. avg. 0.299	0.299	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.8	19.0	Inc. frq. avg. 0.451	0.451	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

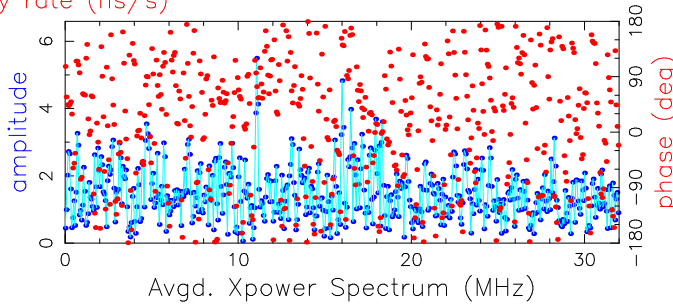
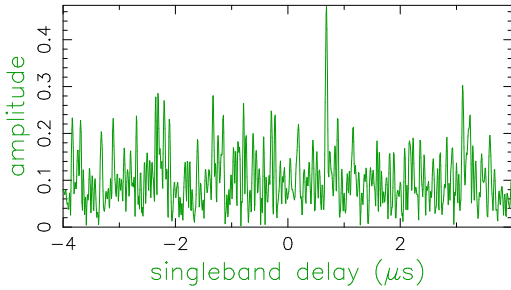
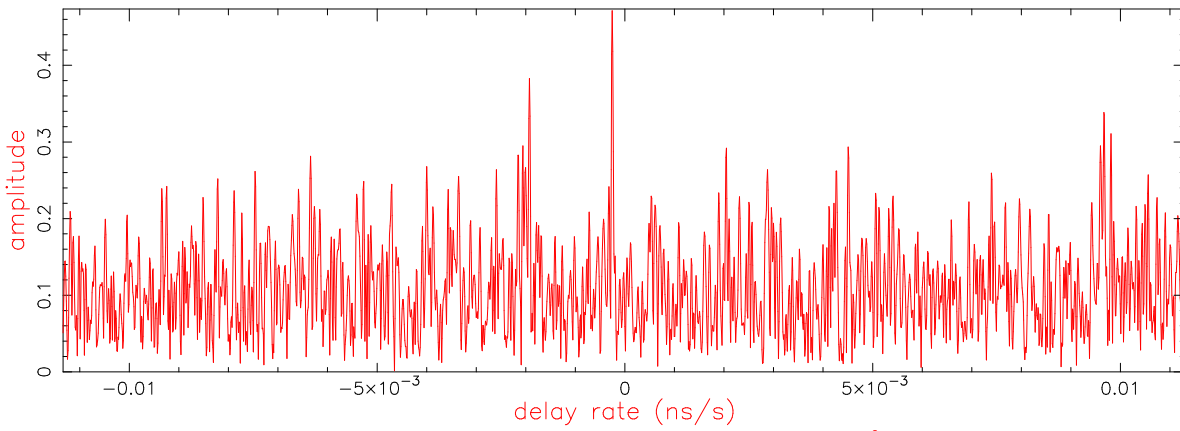
k: az 86.3 el 25.9 pa -61.9 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) -187.984 -909.343 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ko..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ko.W.151.0QR3WR

Fringe quality 0

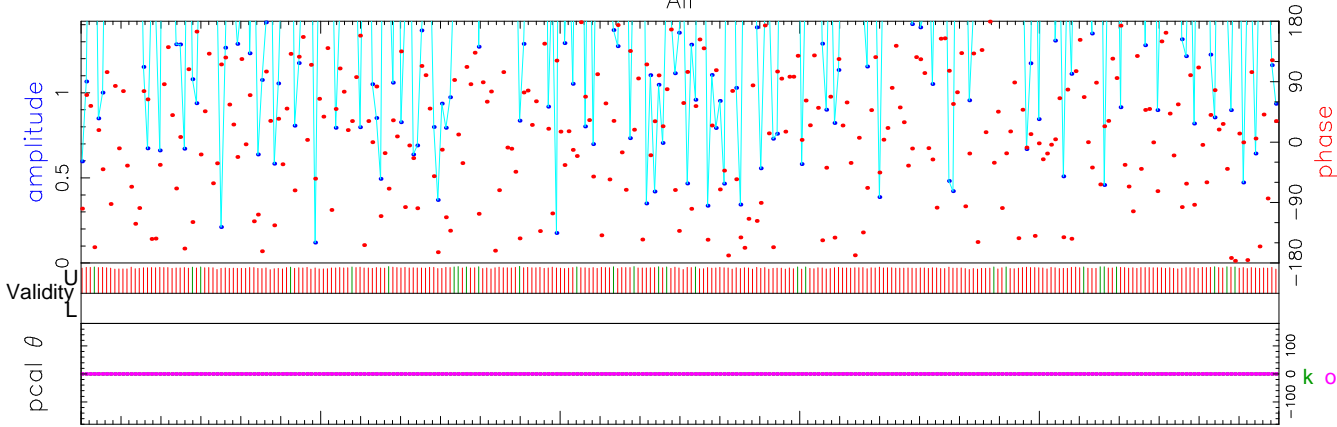
SNR 5.4
Int time 276.992
Amp 0.474
Phase -264.7
PFD 1.0e+00
Delays (us)
SBD 0.685553
MBD -0.000005
Fringe rate (Hz)
-0.021761
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
50.6
0.5
600.8
U/L 586/0
k 1000
o 1000
k:o 0:0
k:o 0:0
k 1000
o 1000
k W06UR
o W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

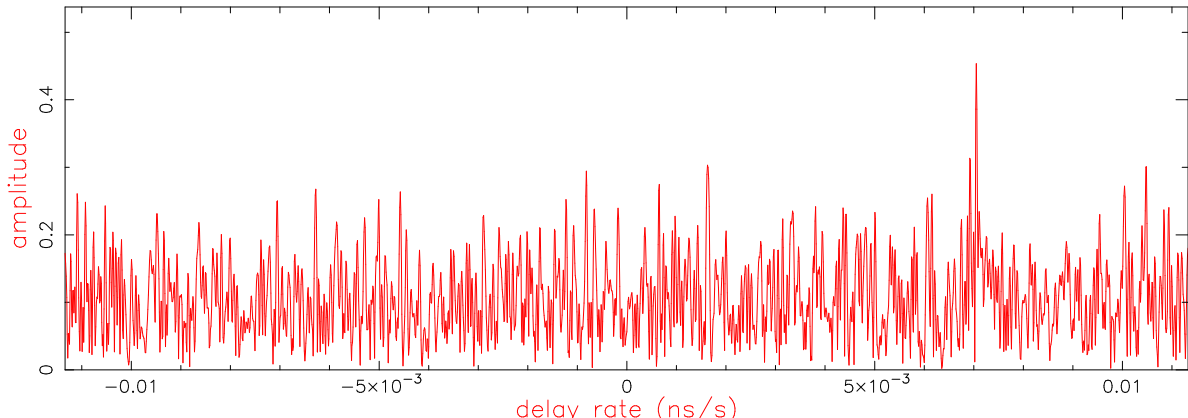
Group delay (usec)(sbd)	1.73593657631E+03	Apriori delay (usec)	1.73525102125E+03	Resid mbdelay (usec)	-4.76915E-06	+/- 3.2E-03
Sband delay (usec)	1.73593657475E+03	Apriori clock (usec)	-5.7908983E+00	Resid sbdelay (usec)	6.85553E-01	+/- 3.2E-03
Phase delay (usec)	1.73525102288E+03	Apriori clockrate (us/s)	-5.5021997E-07	Resid phdelay (usec)	1.63276E-06	+/- 6.9E-07
Delay rate (us/s)	2.89951091015E-02	Apriori rate (us/s)	2.89953617271E-02	Resid rate (us/s)	-2.52626E-07	+/- 4.0E-09
Total phase (deg)	-275.3	Apriori accel (us/s/s)	-1.16458885566E-05	Resid phase (deg)	-264.7	+/- 21.3

ph/seg (deg)	91.8	Theor.	182.1	Amplitude	0.474 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	372.3	Search (2048X8)	0.468	Search (2048X8)	0.468	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. seg. avg.	0.317	Inc. seg. avg.	0.317	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.463	Inc. frq. avg.	0.463	Data rate(Mb/s): 128	ion window (TEC)	0.00 0.00	

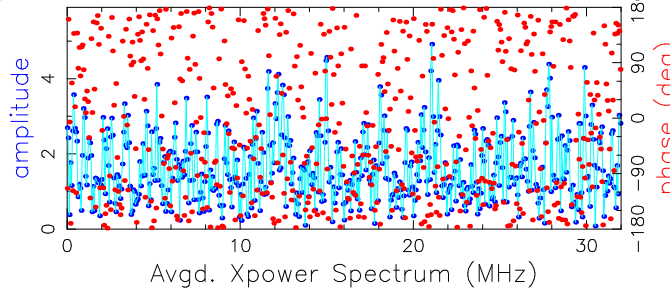
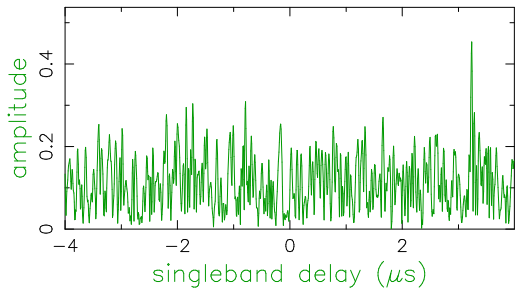
k: az 86.3 el 25.9 pa -61.9 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) -187.984 -909.343 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ko..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ko.W.163.0QR3WR

Fringe quality 0

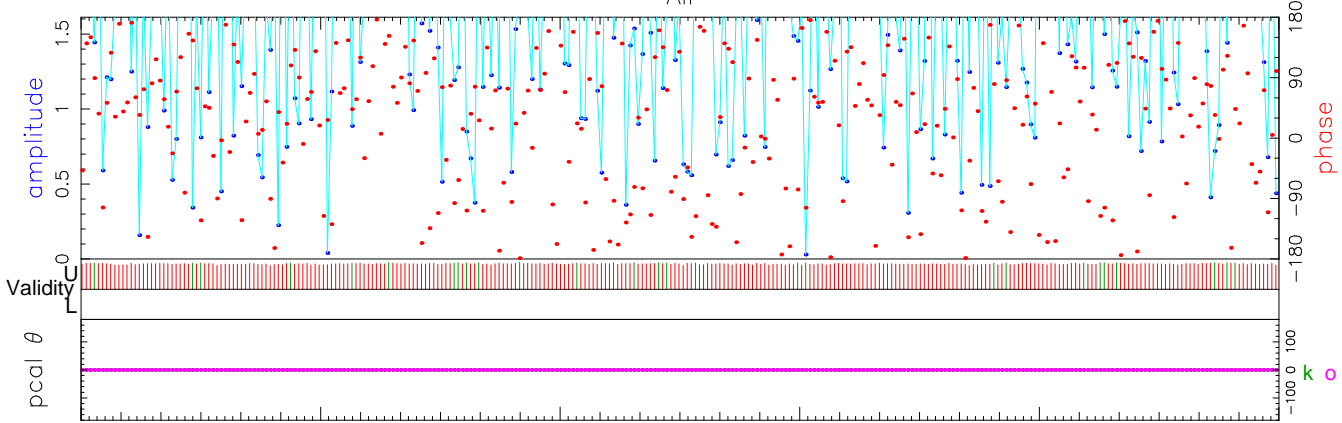


SNR 5.2
Int time 276.988
Amp 0.538
Phase -230.9
PFD 1.0e+00
Delays (us)
SBD 3.232697
MBD 0.000005
Fringe rate (Hz)
0.607446
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
90.3 Phase
0.5 Ampl.
926.8 Sbd box
U/L 586/0 APs used
k 1000 PC freqs
o 1000 PC phase
k:o 0:0 Mani PC
k:o 0:0 PC amp
k 1000
o 1000
k W06UL Chan ids
o W06UR Chan ids

Group delay (usec)(sbd)	1.73848371807E+03	Apriori delay (usec)	1.73525102125E+03	Resid mbdelay (usec)	4.60535E-06	+/-	3.3E-03
Sband delay (usec)	1.73848371875E+03	Apriori clock (usec)	-5.7908983E+00	Resid sbdelay (usec)	3.23270E+00	+/-	3.3E-03
Phase delay (usec)	1.73525102416E+03	Apriori clockrate (us/s)	-5.5021997E-07	Resid phdelay (usec)	2.91280E-06	+/-	7.1E-07
Delay rate (us/s)	2.90024135675E-02	Apriori rate (us/s)	2.89953617271E-02	Resid rate (us/s)	7.05184E-06	+/-	4.1E-09
Total phase (deg)	-241.6	Apriori accel (us/s/s)	-1.16458885566E-05	Resid phase (deg)	-230.9	+/-	22.1

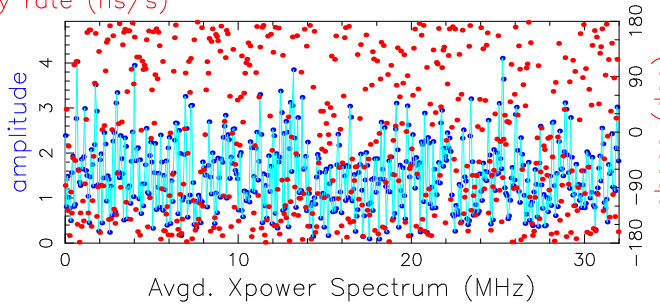
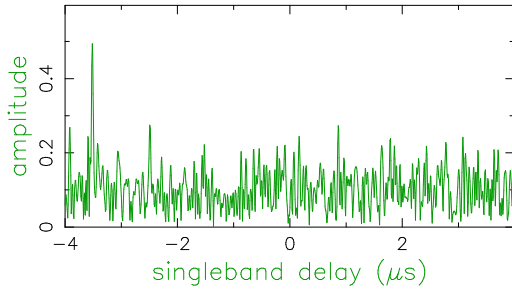
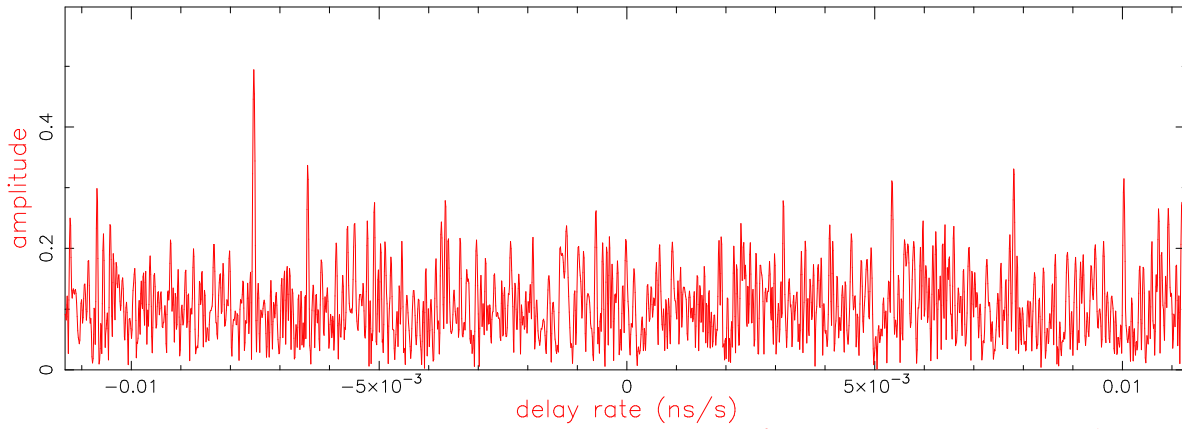
ph/seg (deg)	RMS 92.1	Theor. 189.0	Amplitude 0.538 +/- 0.104	Search (2048X8) 0.452	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	386.0	329.9	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.0	Inc. seg. avg. 0.348	0.348	Bits/sample: 2x2	ion window (TEC)	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.5	19.3	Inc. frq. avg. 0.525	0.525	Sample rate(MSamp/s): 64	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

k: az 86.3 el 25.9 pa -61.9 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) -187.984 -909.343 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ko..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ko.W.175.0QR3WR

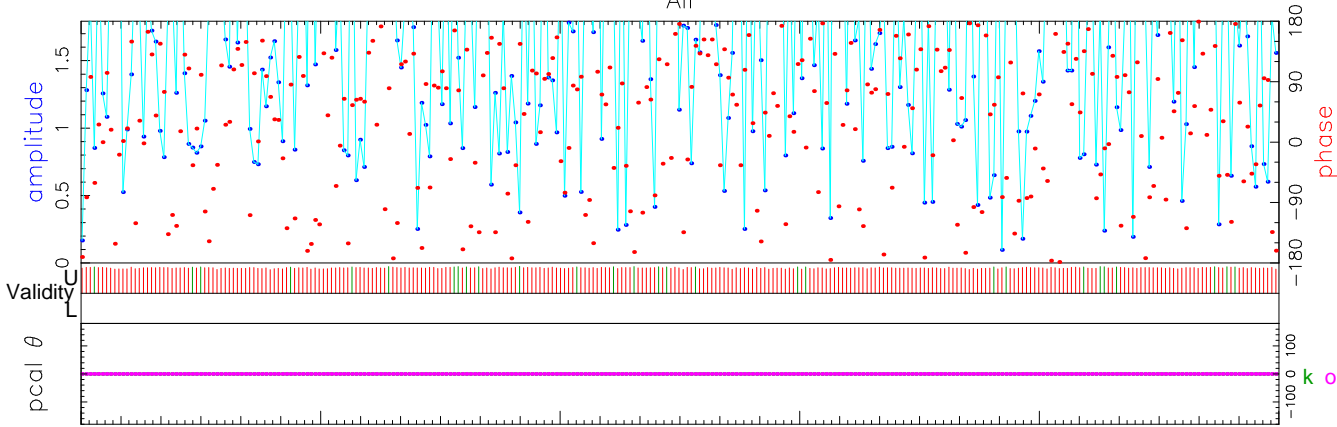
Fringe quality 0

SNR 5.6
Int time 276.990
Amp 0.598
Phase 83.9
PFD 8.8e-01
Delays (us)
SBD -3.514551
MBD -0.000005
Fringe rate (Hz)
-0.647962
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
108.8
0.6
63.1
U/L 586/0
k 1000
o 1000
k:o 0:0
k:o 0:0
k 1000
o 1000
k W06UR
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.73173646908E+03	Apriori delay (usec)	1.73525102125E+03	Resid mbdelay (usec)	-5.27799E-06	+/-	3.1E-03
Sband delay (usec)	1.73173646975E+03	Apriori clock (usec)	-5.7908983E+00	Resid sbdelay (usec)	-3.51455E+00	+/-	3.1E-03
Phase delay (usec)	1.73525102476E+03	Apriori clockrate (us/s)	-5.5021997E-07	Resid phdelay (usec)	3.50753E-06	+/-	6.6E-07
Delay rate (us/s)	2.89878395264E-02	Apriori rate (us/s)	2.89953617271E-02	Resid rate (us/s)	-7.52220E-06	+/-	3.8E-09
Total phase (deg)	73.3	Apriori accel (us/s/s)	-1.16458885566E-05	Resid phase (deg)	83.9	+/-	20.3

ph/seg (deg)	RMS 92.0	Theor. 174.1	Amplitude 0.598 +/- 0.106	Search (2048X8) 0.487	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	331.2	303.8	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	10.2	Inc. seg. avg. 0.393	0.587	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.2	17.7	Inc. frq. avg. 0.587	0.587	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

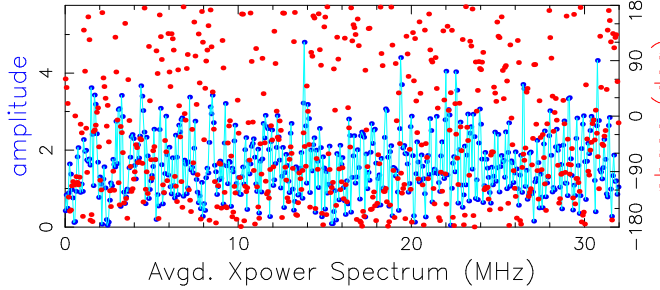
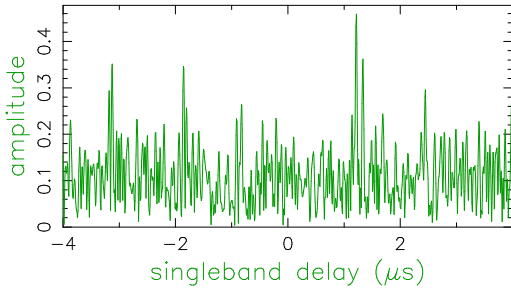
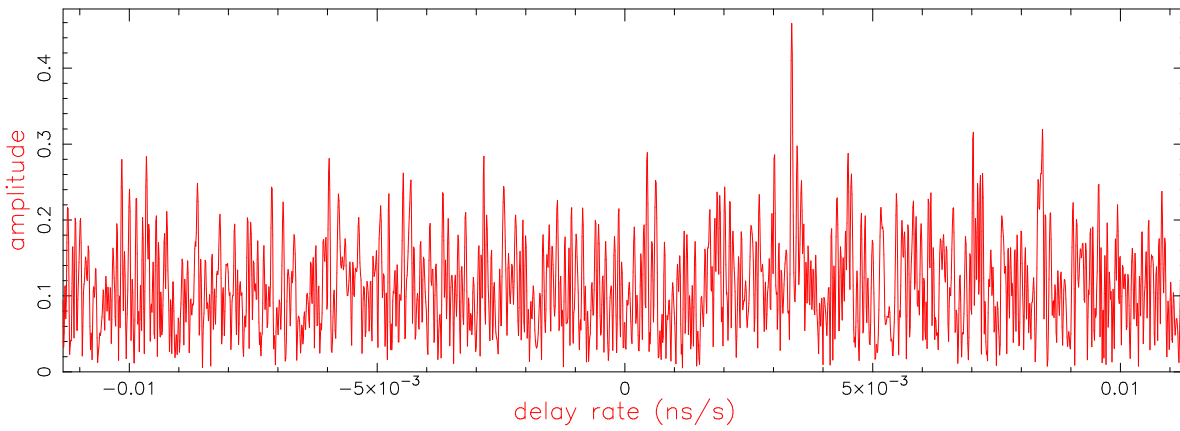
k: az 86.3 el 25.9 pa -61.9 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) -187.984 -909.343 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ko..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ko.W.198.0QR3WR

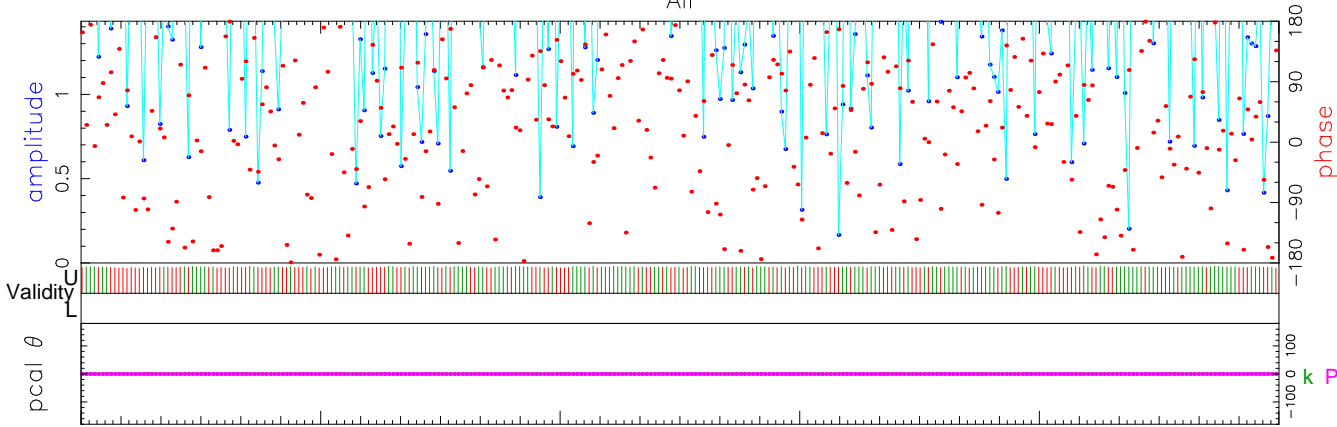
Fringe quality 0

SNR 5.3
Int time 284.921
Amp 0.478
Phase -261.5
PFD 1.0e+00
Delays (us)
SBD 1.217167
MBD 0.000006
Fringe rate (Hz)
0.290083
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
61.9
0.5
668.8
U/L 586/0
k 1000
P 0
k:P 0:0
k:P 0:0
k 1000
P 1000
k W06UL
P W06UL

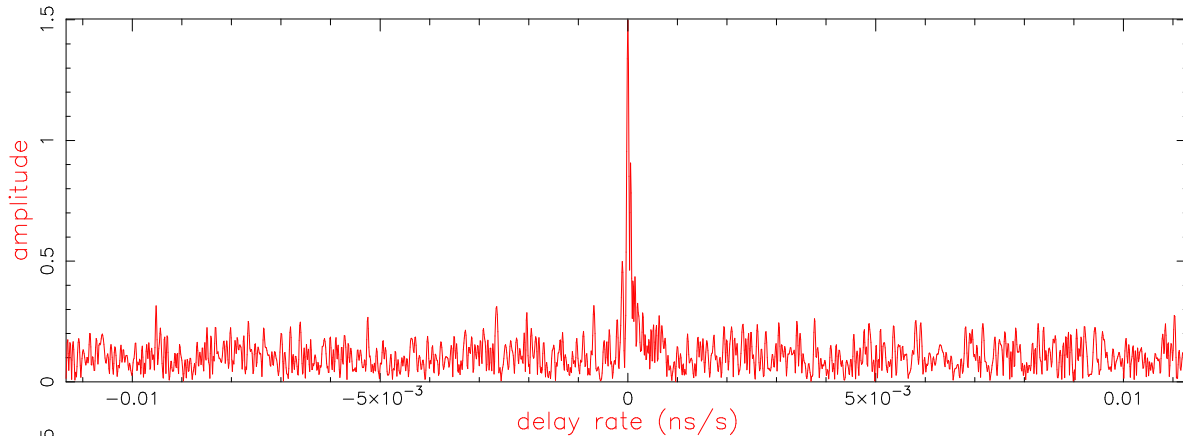
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56525298271E+03	Apriori delay (usec)	-6.56647014777E+03	Resid mbdelay (usec)	5.76038E-06	+/-	3.2E-03
Sband delay (usec)	-6.56525298027E+03	Apriori clock (usec)	2.3612265E+01	Resid sbdelay (usec)	1.21717E+00	+/-	3.2E-03
Phase delay (usec)	-6.56647014577E+03	Apriori clockrate (us/s)	3.6634001E-07	Resid phdelay (usec)	1.99507E-06	+/-	6.9E-07
Delay rate (us/s)	1.93877269431E+00	Apriori rate (us/s)	1.93876932674E+00	Resid rate (us/s)	3.36757E-06	+/-	4.0E-09
Total phase (deg)	-91.9	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	-261.5	+/-	21.5

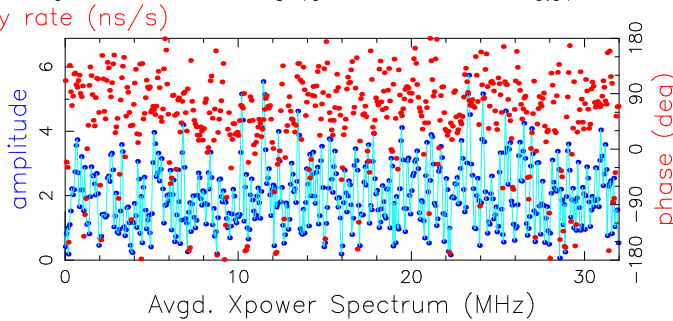
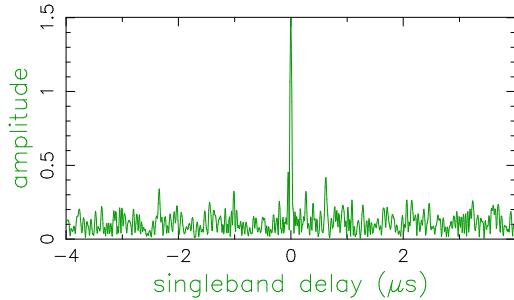
ph/seg (deg)	90.2	Theor.	184.4	Amplitude	0.478 +/- 0.090	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	404.2	Search (2048X8)	0.456	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.338	Inc. frq. avg.	0.468	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.468			Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

k: az 86.3 el 25.9 pa -61.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator

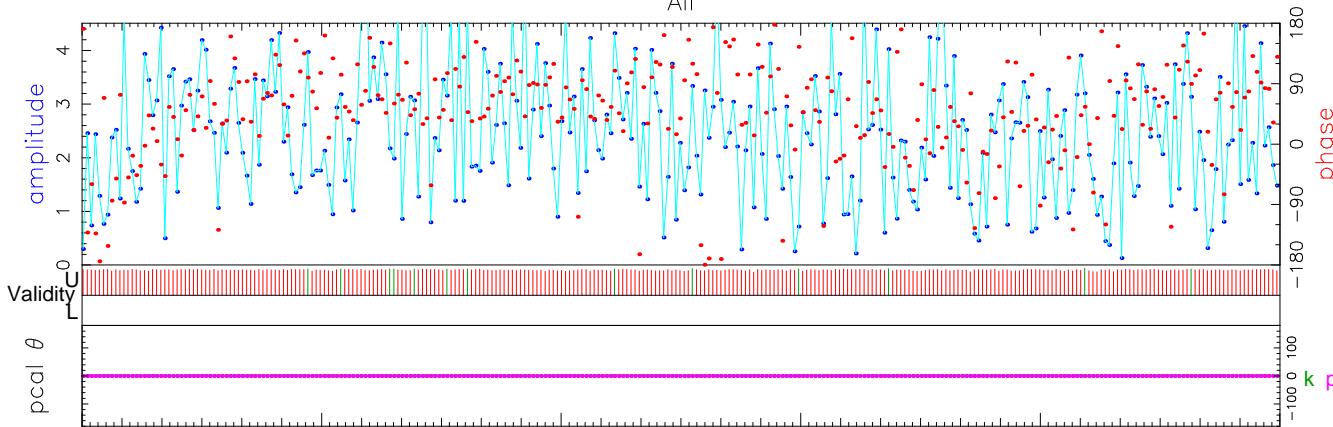
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kP.W.161.0QR3WR



Fringe quality 9
SNR 17.1
Int time 275.238
Amp 1.503
Phase 102.0
PFD 0.0e+00
Delays (us)
SBD -0.001549
MBD -0.000005
Fringe rate (Hz)
-0.000333
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

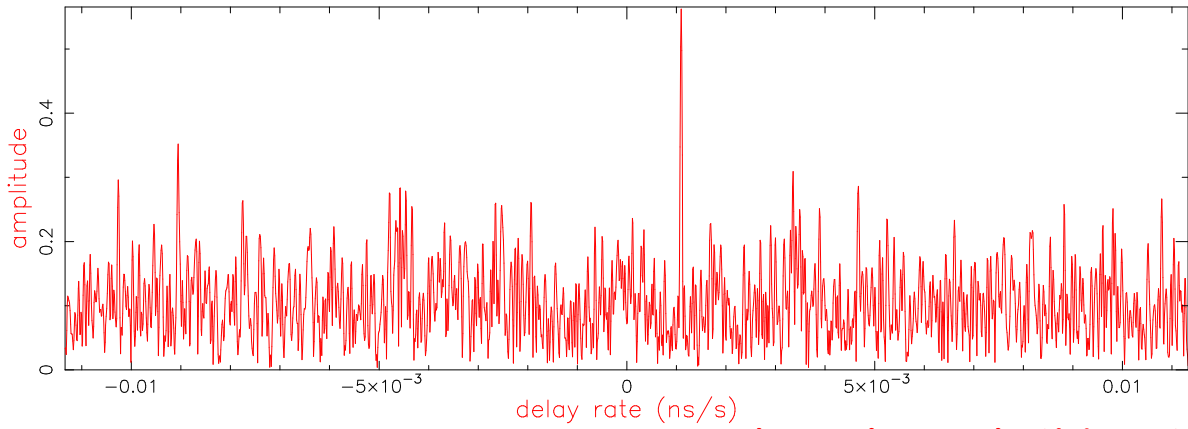


Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

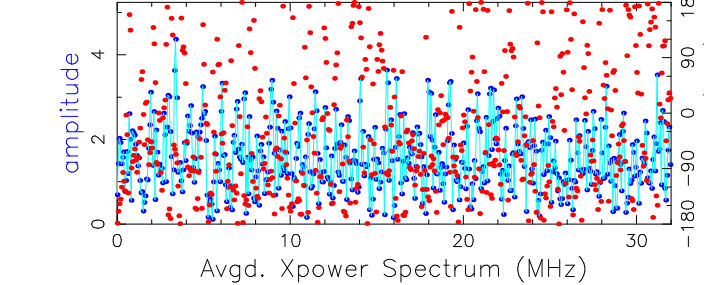
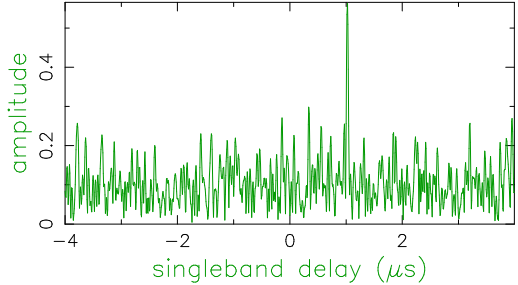


86204.00 Freq (MHz)
66.5 Phase
1.5 Ampl.
512.8 Sbd box
U/L 586/0 APs used
k 1000 PC freqs
p 1000 PC freqs
k:p 0:0 PC phase
kp 0:0 Mani PC
k 1000 PC amp
p 1000
k W06UL Chan ids
p W06UL Chan ids

Group delay (usec)(sbd)	-9.89943045302E+02	Apriori delay (usec)	-9.89941497151E+02	Resid mbdelay (usec)	-5.29906E-06	+/-	1.0E-03
Sband delay (usec)	-9.89943046151E+02	Apriori clock (usec)	-7.7702618E+00	Resid sbdelay (usec)	-1.54900E-03	+/-	1.0E-03
Phase delay (usec)	-9.89941495008E+02	Apriori clockrate (us/s)	-7.5660005E-08	Resid phdelay (usec)	2.14343E-06	+/-	2.2E-07
Delay rate (us/s)	6.05447877909E-02	Apriori rate (us/s)	6.05447916624E-02	Resid rate (us/s)	-3.87156E-09	+/-	1.3E-09
Total phase (deg)	-101.2	Apriori accel (us/s/s)	4.14029106174E-06	Resid phase (deg)	102.0	+/-	6.7
ph/seg (deg)	RMS 66.6 Theor. 57.5	Amplitude	1.503 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	104.4 100.4	Search (2048X8)	1.475	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0 3.4	Inc. seg. avg.	1.649	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.4 5.9	Inc. frq. avg.	1.495	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
				Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
				nlags:	512	ion window (TEC)	0.00 0.00
				t_cohere infinite			
k: az 86.3 el 25.9 pa -61.9				p: az 89.4 el 28.9 pa -59.3			
				u,v (fr/asec) -356.044 -195.145			
simultaneous interpolator							
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kp.W.166.0QR3WR							



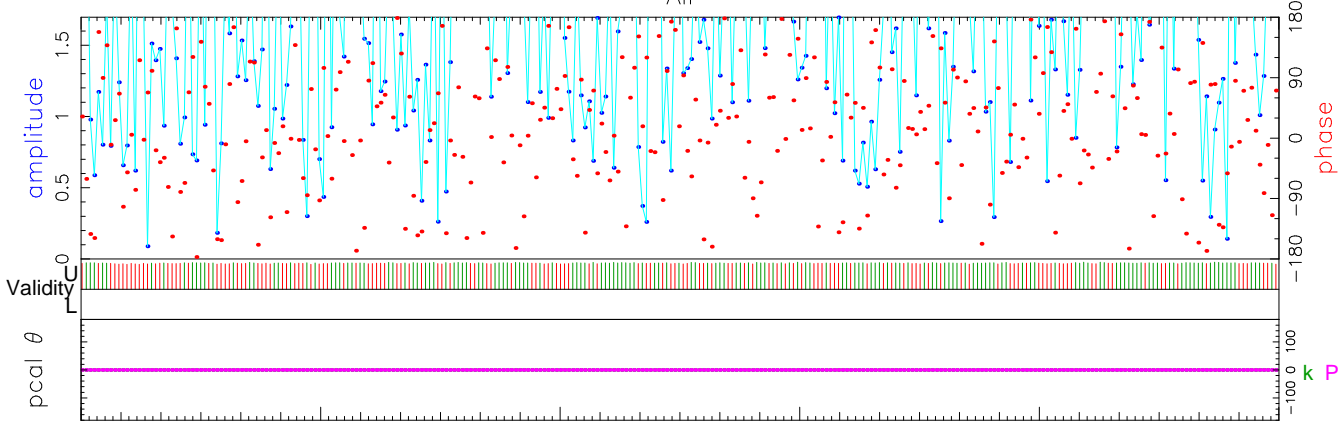
Fringe quality 0
SNR 6.5
Int time 284.926
Amp 0.566
Phase -122.4
PFD 1.1e-02
Delays (us)
SBD 1.022161
MBD 0.000004
Fringe rate (Hz)
0.094784
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
28.1
0.6
643.9
U/L 586/0
k 1000
P 0
k:P 0:0
k:P 0:0
k 1000
P 1000
k W06UR
P W06UR

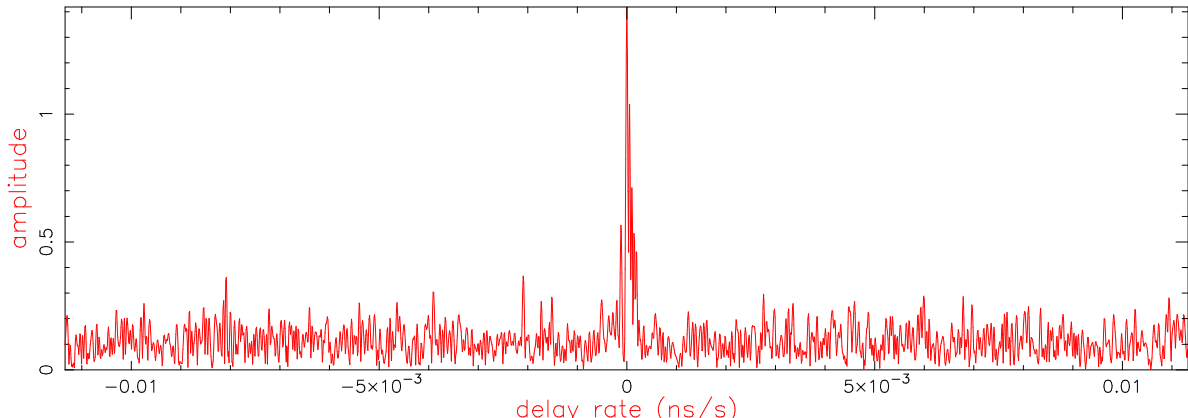
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56544798661E+03	Apriori delay (usec)	-6.56647014777E+03	Resid mbdelay (usec)	4.41492E-06	+/-	2.6E-03
Sband delay (usec)	-6.56544798677E+03	Apriori clock (usec)	2.3612265E+01	Resid sbdelay (usec)	1.02216E+00	+/-	2.6E-03
Phase delay (usec)	-6.56647014686E+03	Apriori clockrate (us/s)	3.6634001E-07	Resid phdelay (usec)	9.06504E-07	+/-	5.7E-07
Delay rate (us/s)	1.93877042709E+00	Apriori rate (us/s)	1.93876932674E+00	Resid rate (us/s)	1.10035E-06	+/-	3.3E-09
Total phase (deg)	-312.8	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	-122.4	+/-	17.6

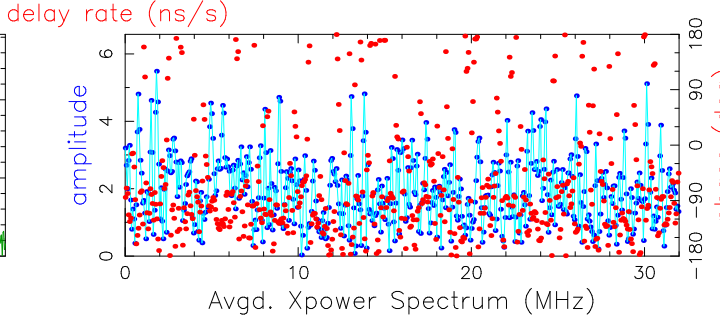
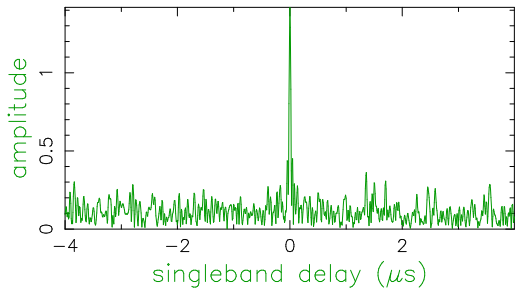
ph/seg (deg)	90.3	Theor.	150.8	Amplitude	0.566 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	287.4	Search (2048X8)	0.550	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.417	Inc. frq. avg.	0.558	Bits/sample:	2x2	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	0.2	Inc. frq. avg.	0.558			Sample rate(MSamp/s):	64	ion window (TEC)	0.00	0.00		

k: az 86.3 el 25.9 pa -61.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kP.W.173.0QR3WR

Fringe quality 9

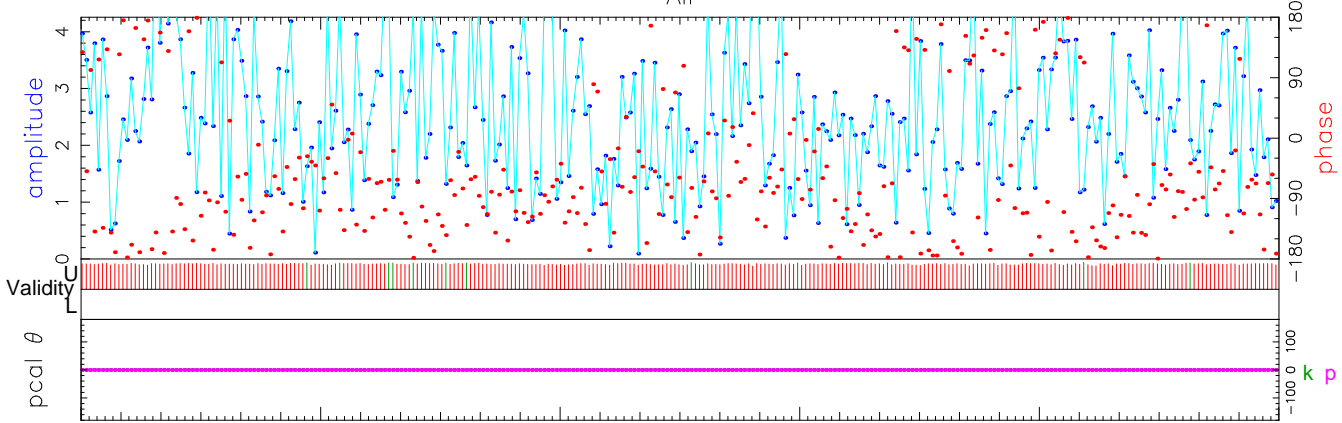


SNR 16.1
Int time 275.237
Amp 1.419
Phase -127.3
PFD 0.0e+00
Delays (us)
SBD 0.000812
MBD -0.000006
Fringe rate (Hz)
-0.000165
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



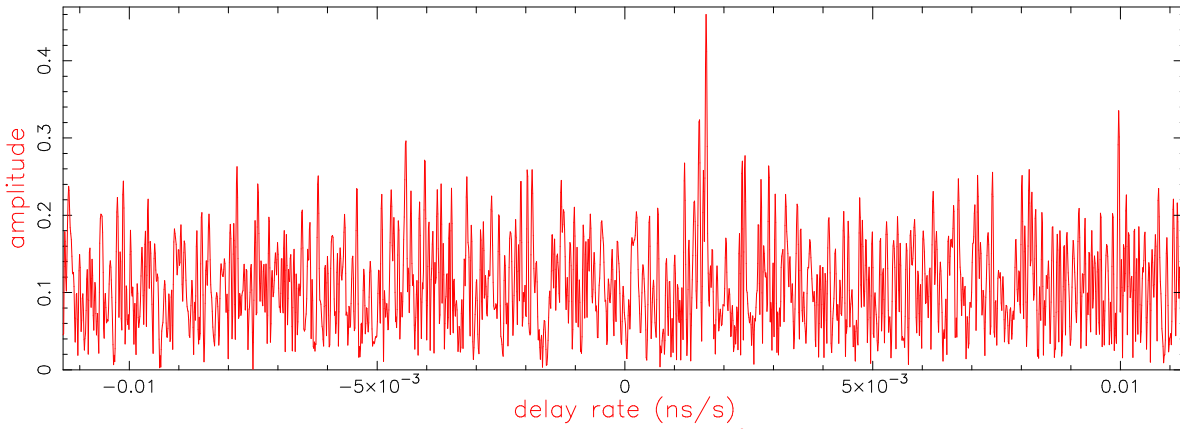
86204.00 Freq (MHz)
-108.5 Phase
1.4 Ampl.
513.1 Sbd box
U/L 586/0 APs used
k 1000 PC freqs
p 1000 PC phase
k:p 0:0 Mani PC
k:p 0:0 PC amp
k 1000
p 1000
k W06UR Chan ids
p W06UR Chan ids

Group delay (usec)(sbd)	-9.89940691047E+02	Apriori delay (usec)	-9.89941497151E+02	Resid mbdelay (usec)	-5.92316E-06	+/-	1.1E-03
Sband delay (usec)	-9.89940685651E+02	Apriori clock (usec)	-7.7702618E+00	Resid sbdelay (usec)	8.11500E-04	+/-	1.1E-03
Phase delay (usec)	-9.89941500651E+02	Apriori clockrate (us/s)	-7.5660005E-08	Resid phdelay (usec)	-3.50027E-06	+/-	2.3E-07
Delay rate (us/s)	6.05447897415E-02	Apriori rate (us/s)	6.05447916624E-02	Resid rate (us/s)	-1.92090E-09	+/-	1.3E-09
Total phase (deg)	-330.5	Apriori accel (us/s/s)	4.14029106174E-06	Resid phase (deg)	-127.3	+/-	7.1

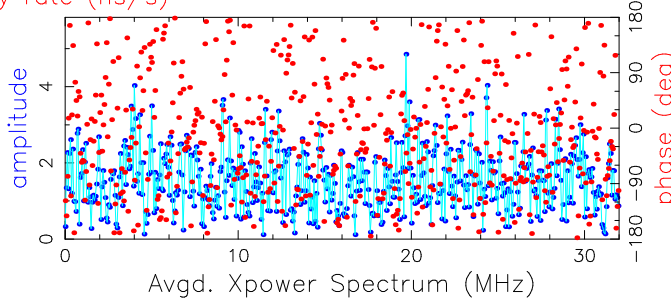
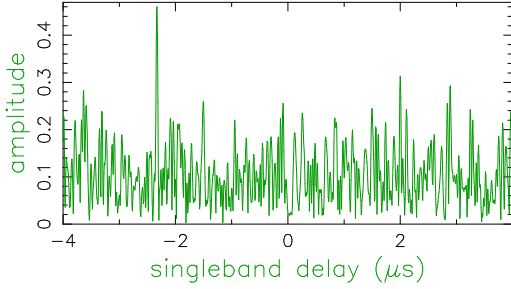
ph/seg (deg)	67.9	Theor.	60.9	Amplitude	1.419 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	120.2	Search (2048X8)	1.411	Search	1.411	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	1.629	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	1.414	Inc. seg. avg.	1.629	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

k: az 86.3 el 25.9 pa -61.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -356.044 -195.145 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kp.W.174.0QR3WR

Fringe quality 0



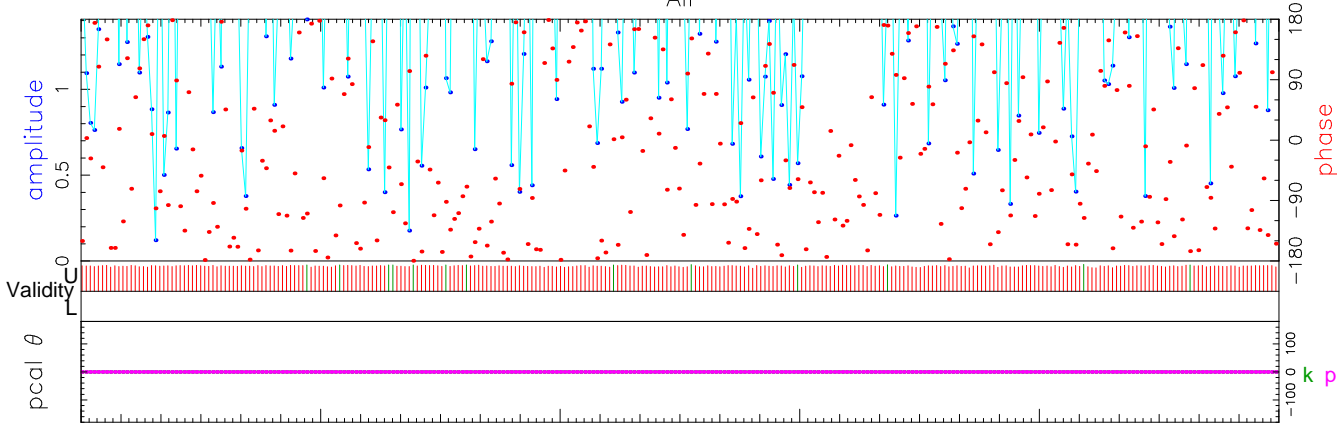
SNR 5.3
 Int time 275.231
 Amp 0.470
 Phase 284.6
 PFD 1.0e+00
 Delays (us)
 SBD -2.330890
 MBD 0.000007
 Fringe rate (Hz)
 0.141243
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174209
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -139.4
 0.5
 214.6
 U/L 586/0
 k 1000
 p 1000
 k:p 0:0
 kp 0:0
 k 1000
 p 1000
 k W06UL
 p W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

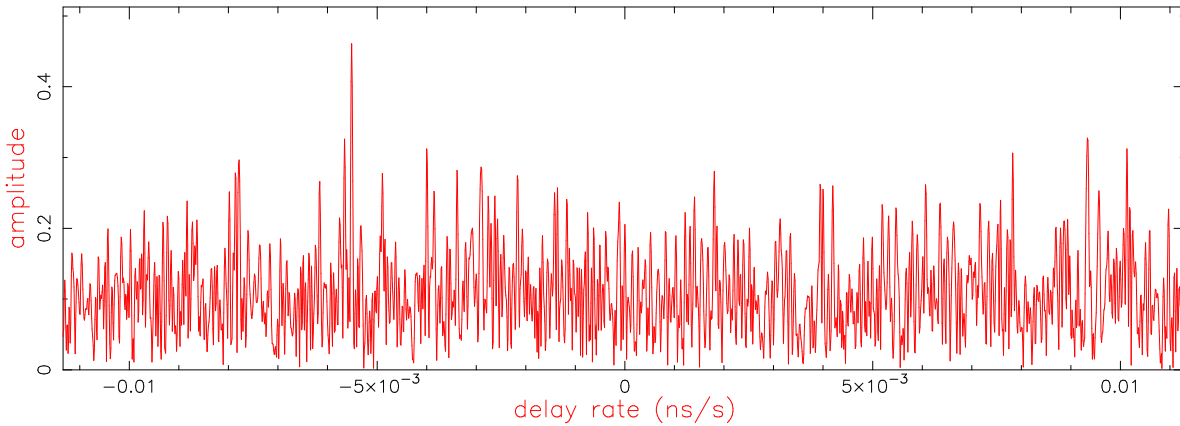
Group delay (usec)(sbd)	-9.92272391084E+02	Apriori delay (usec)	-9.89941497151E+02	Resid mbdelay (usec)	7.18551E-06	+/-	3.3E-03
Sband delay (usec)	-9.92272387151E+02	Apriori clock (usec)	-7.7702618E+00	Resid sbdelay (usec)	-2.33089E+00	+/-	3.3E-03
Phase delay (usec)	-9.89941501645E+02	Apriori clockrate (us/s)	-7.5660005E-08	Resid phdelay (usec)	-4.49391E-06	+/-	7.0E-07
Delay rate (us/s)	6.05464313519E-02	Apriori rate (us/s)	6.05447916624E-02	Resid rate (us/s)	1.63969E-06	+/-	4.0E-09
Total phase (deg)	81.3	Apriori accel (us/s/s)	4.14029106174E-06	Resid phase (deg)	284.6	+/-	21.7

ph/seg (deg)	RMS 91.0	Theor. 185.7	Amplitude 0.470 +/- 0.089	Search (2048X8)	0.456	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	389.4	324.2	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.9	Inc. seg. avg.	0.319		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.2	18.9	Inc. frq. avg.	0.456		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128		nlags: 512	t_cohere infinite	

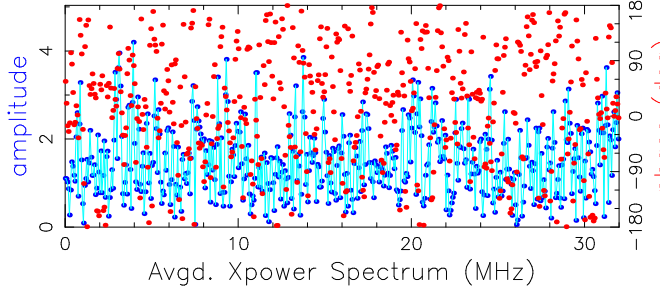
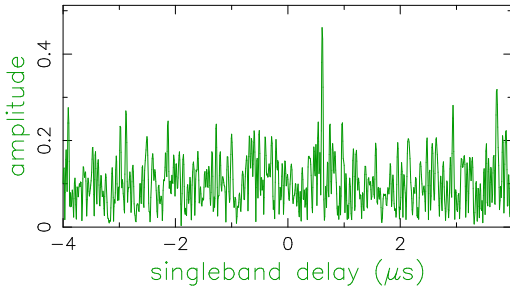
k: az 86.3 el 25.9 pa -61.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -356.044 -195.145 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kp.W.187.0QR3WR

Fringe quality 0



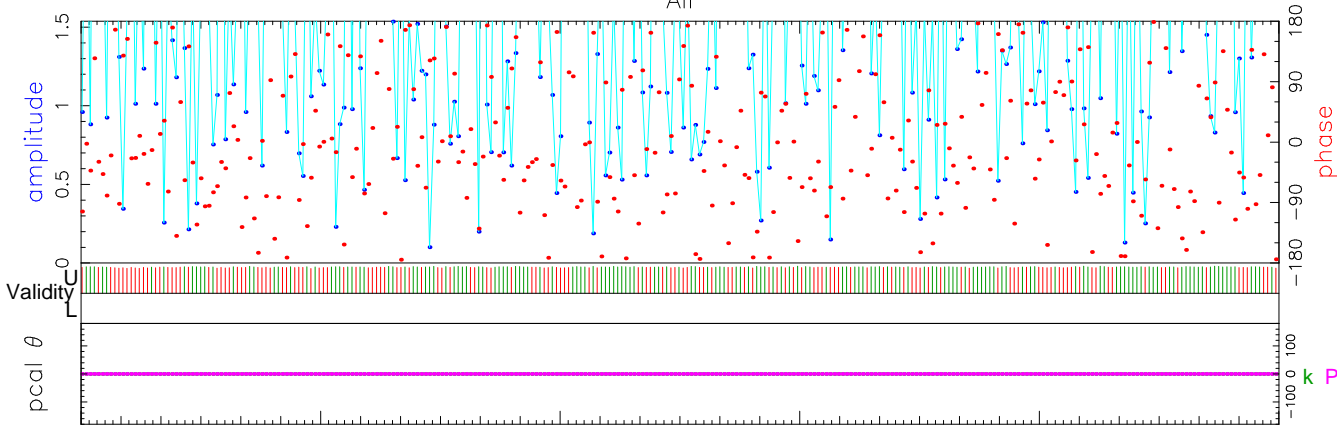
SNR 5.4
Int time 284.921
Amp 0.513
Phase -84.2
PFD 1.0e+00
Delays (us)
SBD 0.611344
MBD -0.000004
Fringe rate (Hz)
-0.474139
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-38.6
0.5
591.3
U/L 586/0
k 1000
P 0
k:P 0:0
k:P 0:0
k 1000
P 1000
k W06UL
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56585879998E+03	Apriori delay (usec)	-6.56647014777E+03	Resid mbdelay (usec)	-4.35400E-06	+/-	3.2E-03
Sband delay (usec)	-6.56585880427E+03	Apriori clock (usec)	2.3612265E+01	Resid sbdelay (usec)	6.11344E-01	+/-	3.2E-03
Phase delay (usec)	-6.56647014901E+03	Apriori clockrate (us/s)	3.6634001E-07	Resid phdelay (usec)	-1.24538E-06	+/-	6.9E-07
Delay rate (us/s)	1.93876382246E+00	Apriori rate (us/s)	1.93876932674E+00	Resid rate (us/s)	-5.50428E-06	+/-	4.0E-09
Total phase (deg)	-274.6	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	-84.2	+/-	21.4

ph/seg (deg)	94.1	183.0	RMS	94.1	Theor.	183.0	Amplitude	0.513 +/- 0.096	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	379.2	319.4	Search (2048X8)	0.455	Interp.	0.000	Search (2048X8)	0.455	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	10.7	Inc. seg. avg.	0.337	Inc. seg. avg.	0.337	Inc. seg. avg.	0.337	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	18.7	Inc. frq. avg.	0.500	Inc. frq. avg.	0.500	Inc. frq. avg.	0.500	Sample rate(MSamp/s):	64	ion window (TEC)	0.00 0.00	dr window (ns/s)	-0.011 0.011

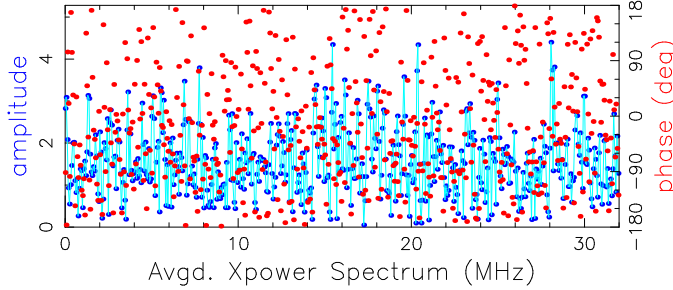
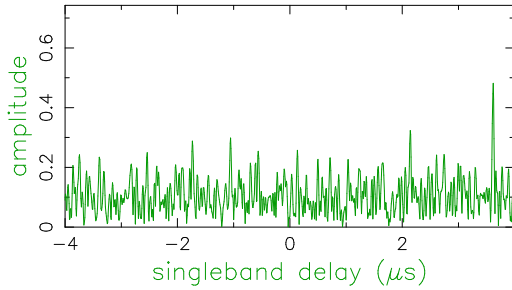
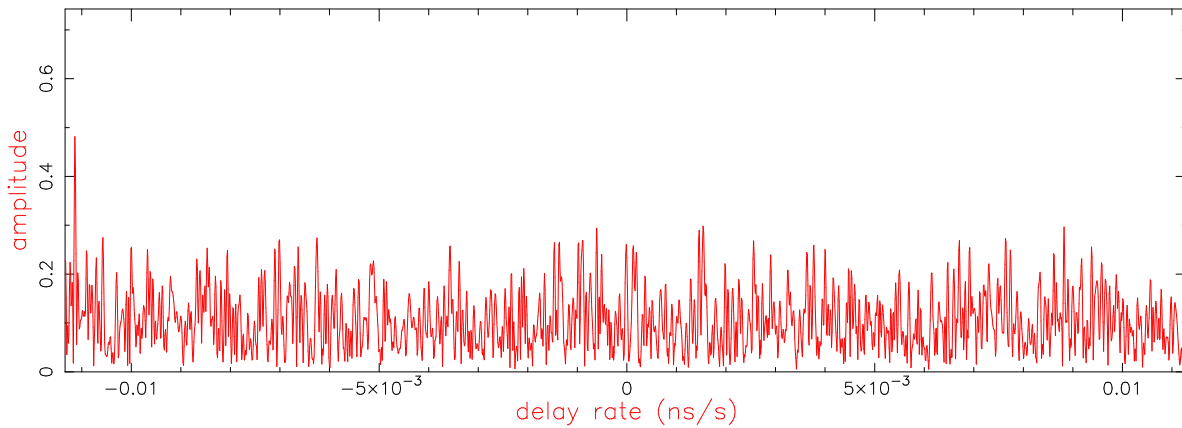
k: az 86.3 el 25.9 pa -61.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kP.W.192.0QR3WR

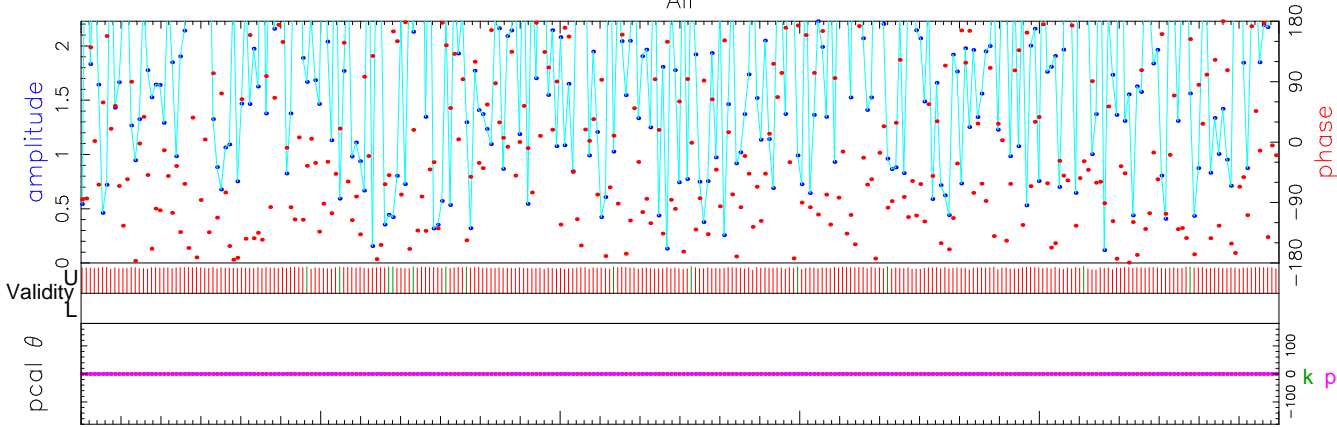
Fringe quality 0

SNR 5.5
Int time 275.243
Amp 0.743
Phase -256.7
PFD 1.0e+00
Delays (us)
SBD 3.616528
MBD -0.000005
Fringe rate (Hz)
-0.958354
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-91.6
0.7
975.9
U/L 586/0
k 1000
p 1000
k:p 0:0
kp 0:0
k 1000
p 1000
k W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.86324964399E+02	Apriori delay (usec)	-9.89941497151E+02	Resid mbdelay (usec)	-4.76321E-06	+/-	3.2E-03
Sband delay (usec)	-9.86324969651E+02	Apriori clock (usec)	-7.7702618E+00	Resid sbdelay (usec)	3.61653E+00	+/-	3.2E-03
Phase delay (usec)	-9.89941500106E+02	Apriori clockrate (us/s)	-7.5660005E-08	Resid phdelay (usec)	-2.95484E-06	+/-	6.8E-07
Delay rate (us/s)	6.05336661210E-02	Apriori rate (us/s)	6.05447916624E-02	Resid rate (us/s)	-1.11255E-05	+/-	3.9E-09
Total phase (deg)	-99.9	Apriori accel (us/s/s)	4.14029106174E-06	Resid phase (deg)	-256.7	+/-	21.0

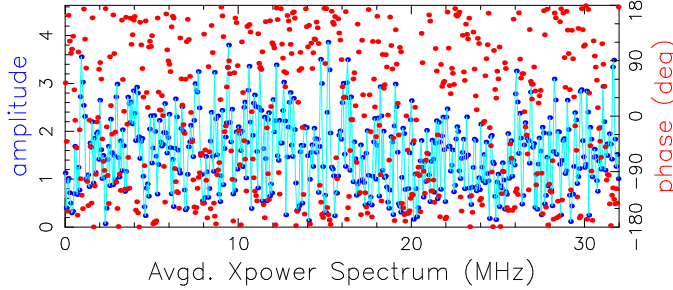
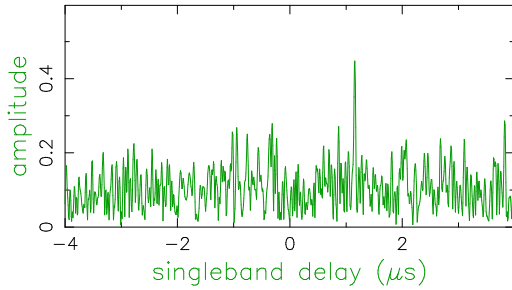
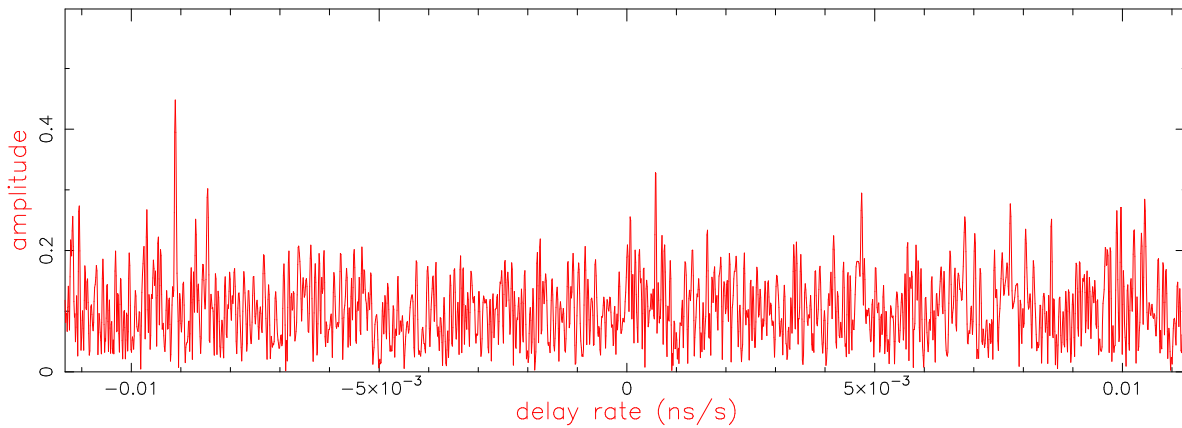
ph/seg (deg)	90.3	Theor.	179.5	Amplitude	0.743 +/- 0.136	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	360.9	Search (2048X8)	0.480	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.491	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.1	Inc. frq. avg.	0.730	Inc. frq. avg.	0.730	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000

k: az 86.3 el 25.9 pa -61.9 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -356.044 -195.145 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kp.W.207.0QR3WR

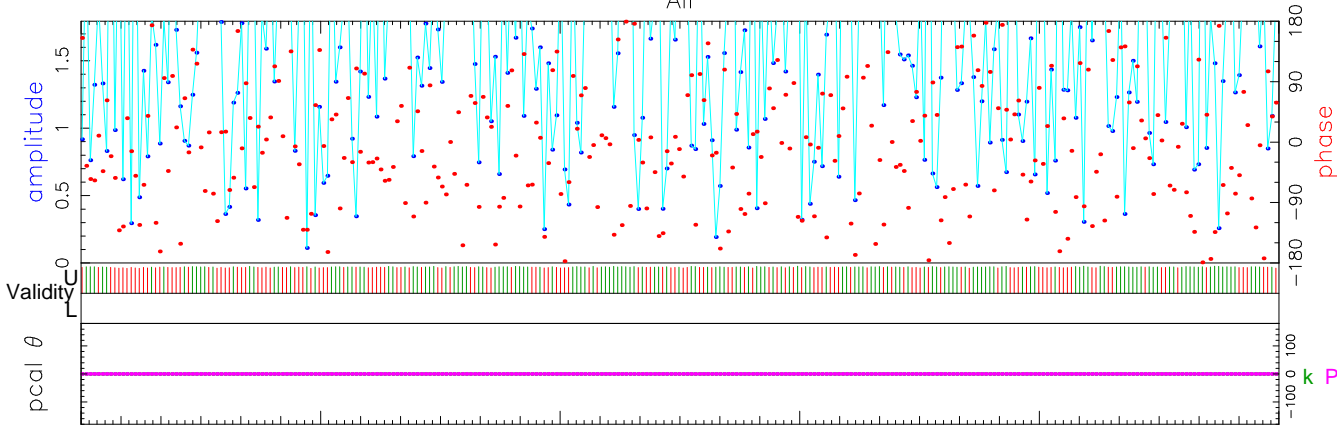
Fringe quality 0

SNR 5.2
Int time 284.926
Amp 0.598
Phase -326.3
PFD 1.0e+00
Delays (us)
SBD 1.153872
MBD -0.000004
Fringe rate (Hz)
-0.784001
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-20.9
0.6
660.7
U/L 586/0
k 1000
P 0
k:P 0:0
k:P 0:0
k 1000
P 1000
k W06UR
P W06UL

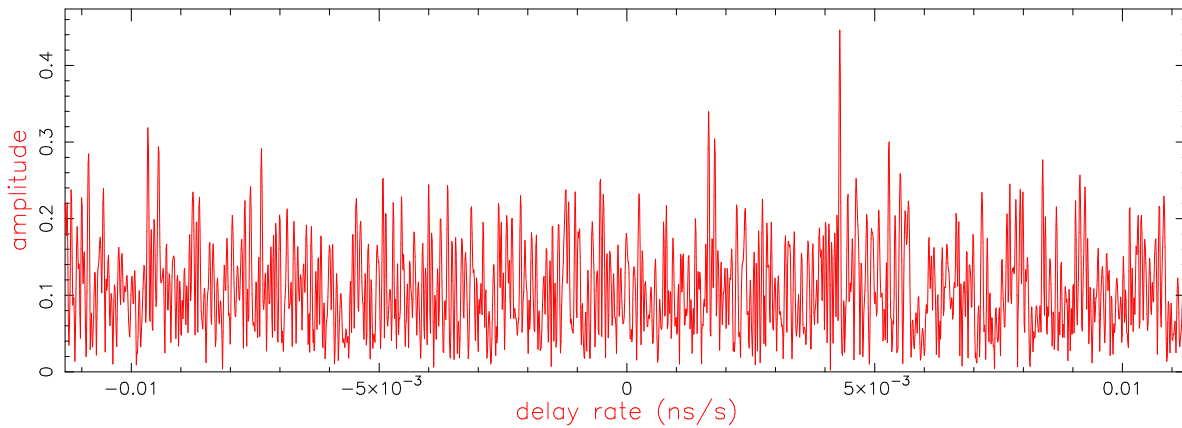
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.56531627299E+03	Apriori delay (usec)	-6.56647014777E+03	Resid mbdelay (usec)	-4.39497E-06	+/-	3.3E-03
Sband delay (usec)	-6.56531627577E+03	Apriori clock (usec)	2.3612265E+01	Resid sbdelay (usec)	1.15387E+00	+/-	3.3E-03
Phase delay (usec)	-6.56647014844E+03	Apriori clockrate (us/s)	3.6634001E-07	Resid phdelay (usec)	-6.74726E-07	+/-	7.1E-07
Delay rate (us/s)	1.93876022526E+00	Apriori rate (us/s)	1.93876932674E+00	Resid rate (us/s)	-9.10147E-06	+/-	4.1E-09
Total phase (deg)	-156.7	Apriori accel (us/s/s)	3.27217655819E-05	Resid phase (deg)	-326.3	+/-	22.0

ph/seg (deg)	88.4	Theor.	188.2	Amplitude	0.598 +/- 0.115	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	352.0	Search (2048X8)	0.445	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.363	Inc. frq. avg.	0.582	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.8	Inc. frq. avg.	0.582			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		
						nlags:	512	t_cohere	infinite		

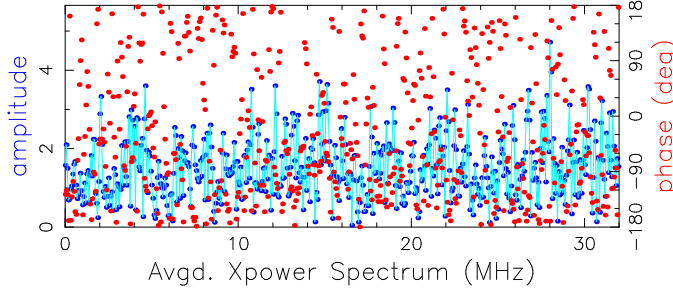
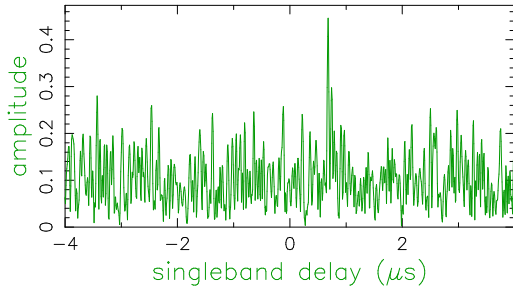
k: az 86.3 el 25.9 pa -61.9 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11522.443 179.336 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kP.W.219.0QR3WR



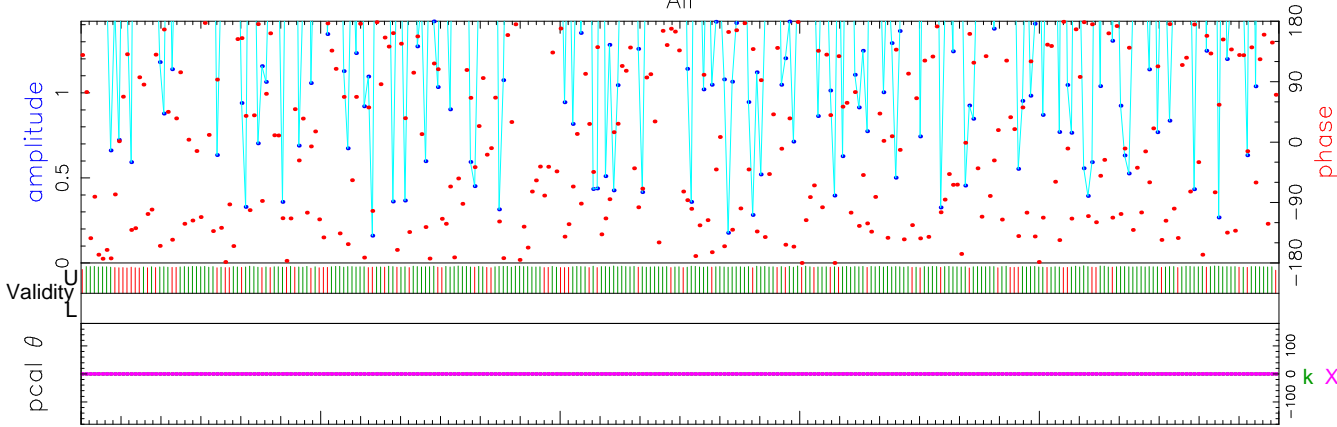
Fringe quality 0

SNR 5.2
Int time 287.683
Amp 0.474
Phase -335.7
PFD 1.0e+00
Delays (us)
SBD 0.679345
MBD 0.000007
Fringe rate (Hz)
0.370108
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-163.6
0.5
600.0
U/L 586/0
k 1000
X 0
k:X 0:0
k:X 0:0
k 1000
X 1000
k W06UL
X W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.78060249097E+03	Apriori delay (usec)	-1.78128183988E+03	Resid mbdelay (usec)	6.88349E-06	+/-	3.3E-03
Sband delay (usec)	-1.78060249488E+03	Apriori clock (usec)	-1.5334518E+00	Resid sbdelay (usec)	6.79345E-01	+/-	3.3E-03
Phase delay (usec)	-1.78128184516E+03	Apriori clockrate (us/s)	-7.1065999E-07	Resid phdelay (usec)	-5.27658E-06	+/-	7.1E-07
Delay rate (us/s)	1.83656144276E+00	Apriori rate (us/s)	1.83655714617E+00	Resid rate (us/s)	4.29659E-06	+/-	4.1E-09
Total phase (deg)	-223.1	Apriori accel (us/s/s)	-4.23864104482E-07	Resid phase (deg)	-335.7	+/-	22.1

ph/seg (deg)	91.1	Theor.	189.5	Amplitude	0.474 +/- 0.092	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	400.1	Search (2048X8)	0.443	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.312	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.465	Inc. frq. avg.	0.465	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

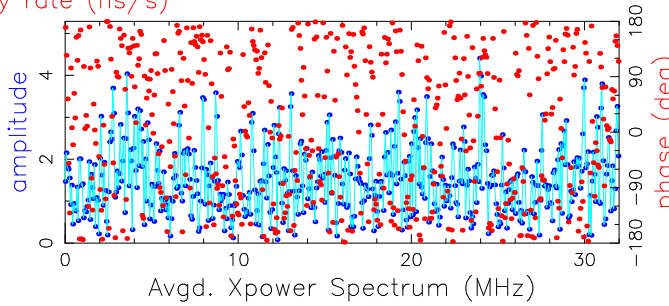
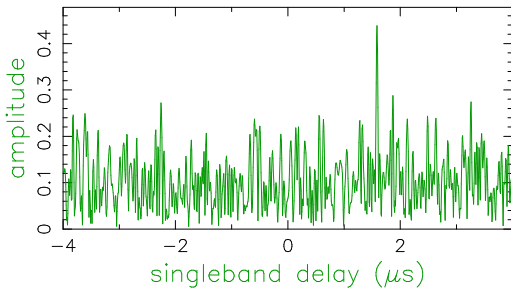
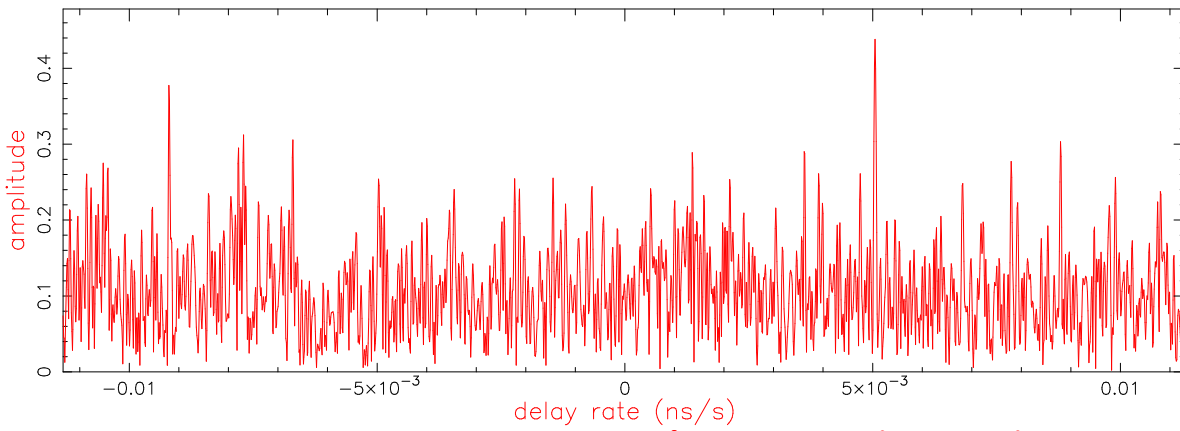
k: az 86.3 el 25.9 pa -61.9 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10955.738 -2621.372 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kX.W.155.0QR3WR

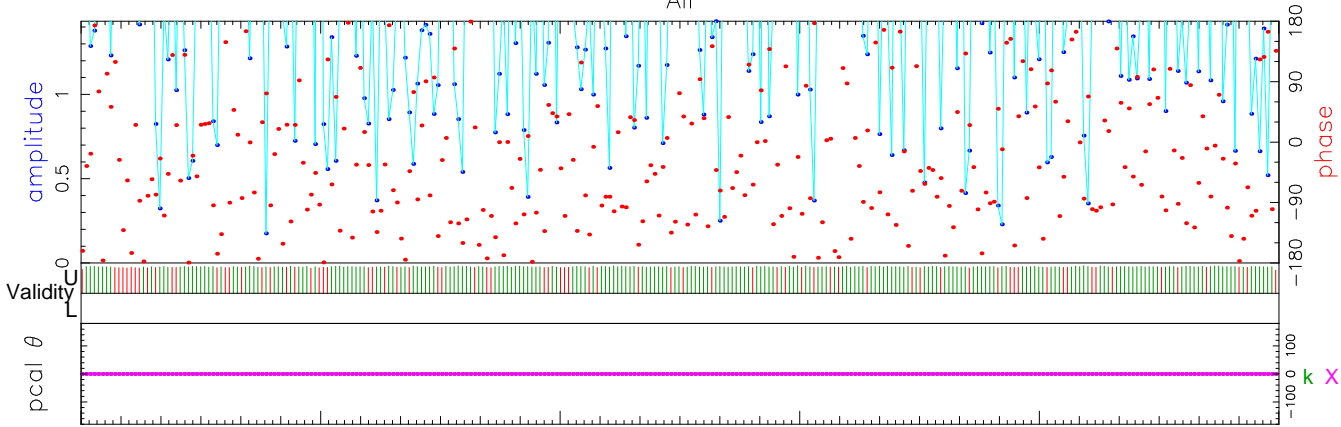
Fringe quality 0

SNR 5.1
Int time 287.689
Amp 0.478
Phase -216.2
PFD 1.0e+00
Delays (us)
SBD 1.584246
MBD 0.000004
Fringe rate (Hz)
0.434546
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-75.3
0.5
715.8
U/L 586/0
k 1000
X 0
k:X 0:0
k:X 0:0
k 1000
X 1000
k W06UR
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp

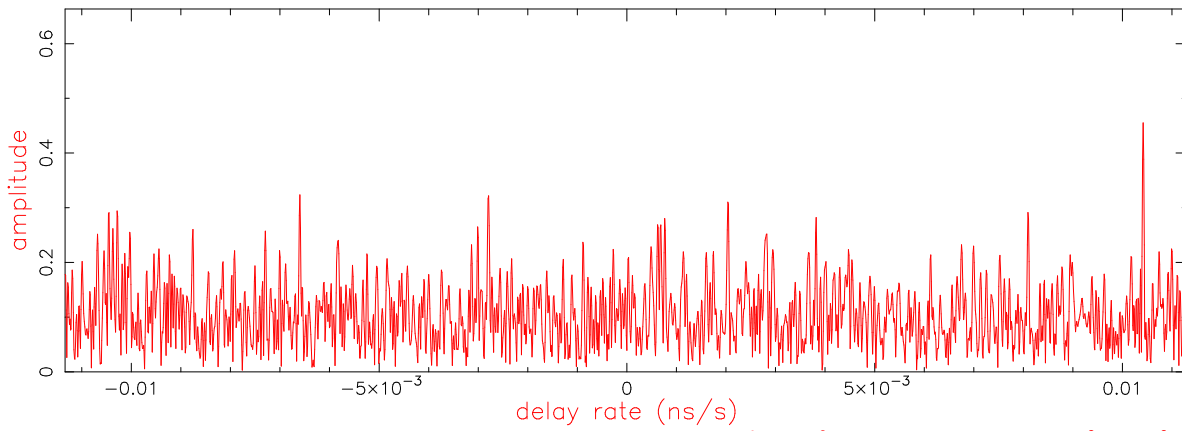
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.77969759347E+03	Apriori delay (usec)	-1.78128183988E+03	Resid mbdelay (usec)	4.38110E-06	+/-	3.4E-03
Sband delay (usec)	-1.77969759388E+03	Apriori clock (usec)	-1.5334518E+00	Resid sbdelay (usec)	1.58425E+00	+/-	3.4E-03
Phase delay (usec)	-1.78128184231E+03	Apriori clockrate (us/s)	-7.1065999E-07	Resid phdelay (usec)	-2.42815E-06	+/-	7.2E-07
Delay rate (us/s)	1.83656219082E+00	Apriori rate (us/s)	1.83655714617E+00	Resid rate (us/s)	5.04465E-06	+/-	4.2E-09
Total phase (deg)	-103.7	Apriori accel (us/s/s)	-4.23864104482E-07	Resid phase (deg)	-216.2	+/-	22.4

ph/seg (deg)	89.7	Theor.	192.1	Amplitude	0.478 +/- 0.094	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	395.0	Search (2048X8)	0.430	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.307	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.5	Inc. frq. avg.	0.467	Inc. frq. avg.	0.467	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

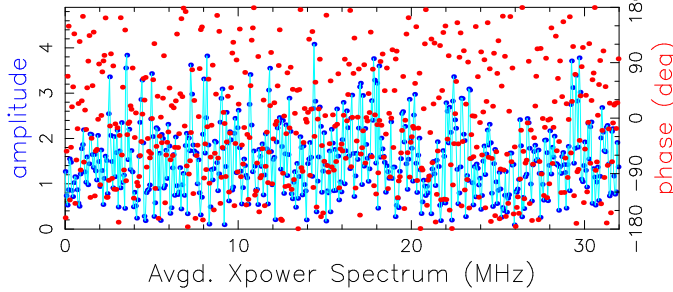
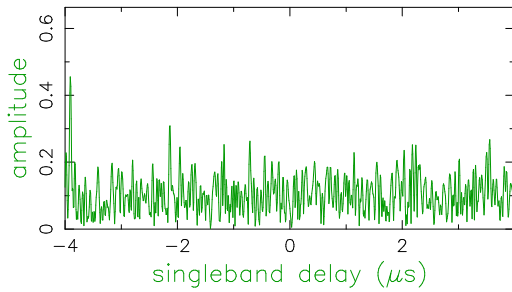
k: az 86.3 el 25.9 pa -61.9 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10955.738 -2621.372 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kX.W.167.0QR3WR



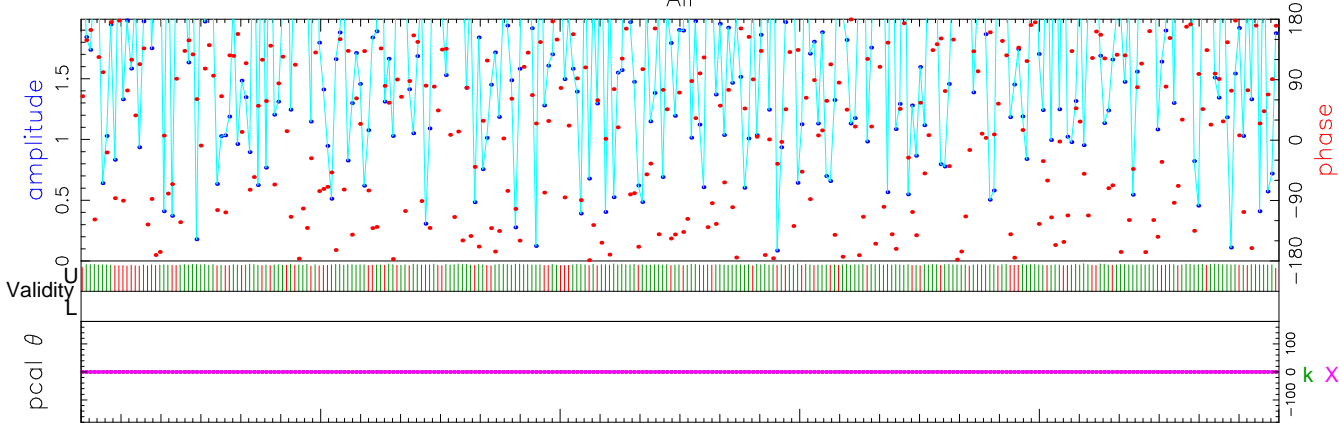
Fringe quality 0

SNR 5.3
Int time 287.683
Amp 0.663
Phase 128.4
PFD 1.0e+00
Delays (us)
SBD -3.905134
MBD 0.000007
Fringe rate (Hz)
0.896978
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
153.9
0.7
13.1
U/L 586/0
k 1000
X 0
k:X 0:0
k:X 0:0
k 1000
X 1000
k W06UL
X W06UR

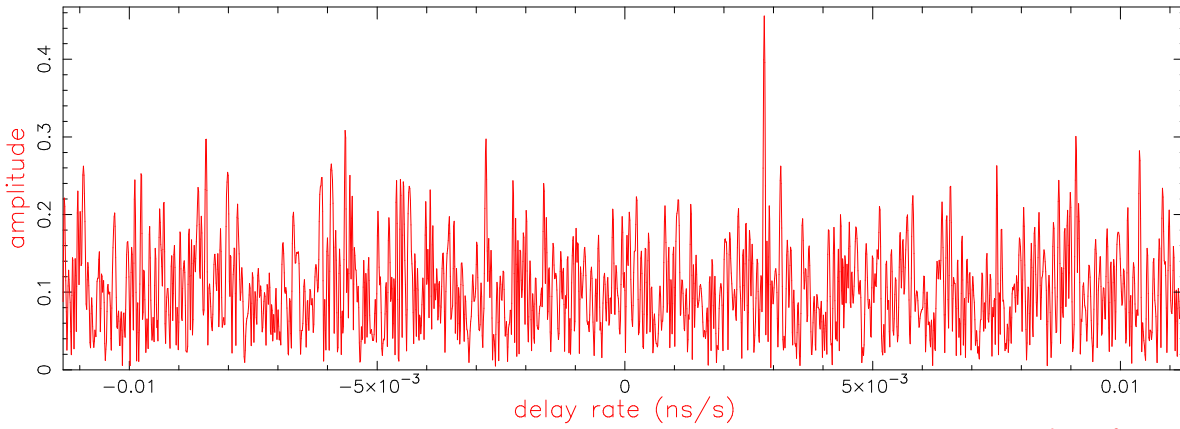
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.78518697667E+03	Apriori delay (usec)	-1.78128183988E+03	Resid mbdelay (usec)	6.82326E-06	+/-	3.3E-03
Sband delay (usec)	-1.78518697388E+03	Apriori clock (usec)	-1.5334518E+00	Resid sbdelay (usec)	-3.90513E+00	+/-	3.3E-03
Phase delay (usec)	-1.78128183492E+03	Apriori clockrate (us/s)	-7.1065999E-07	Resid phdelay (usec)	4.96293E-06	+/-	7.0E-07
Delay rate (us/s)	1.83656755919E+00	Apriori rate (us/s)	1.83655714617E+00	Resid rate (us/s)	1.04130E-05	+/-	4.0E-09
Total phase (deg)	240.9	Apriori accel (us/s/s)	-4.23864104482E-07	Resid phase (deg)	128.4	+/-	21.7

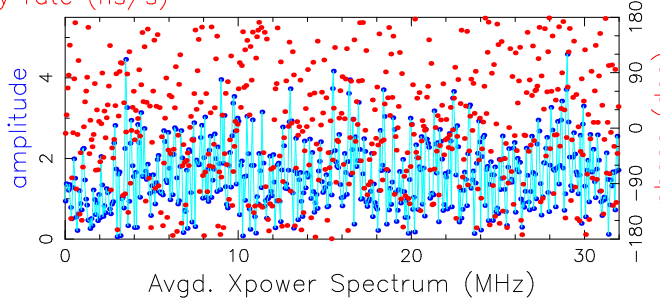
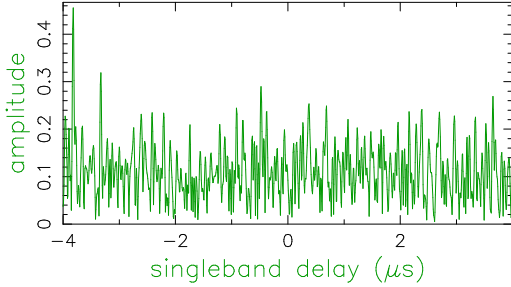
ph/seg (deg)	90.8	Theor.	185.5	Amplitude	0.663 +/- 0.125	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	367.4	Search (2048X8)	0.438	Search (2048X8)	0.438	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. seg. avg.	0.430	Inc. seg. avg.	0.430	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.651	Inc. frq. avg.	0.651	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

k: az 86.3 el 25.9 pa -61.9 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10955.738 -2621.372 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kX.W.189.0QR3WR

Fringe quality 0



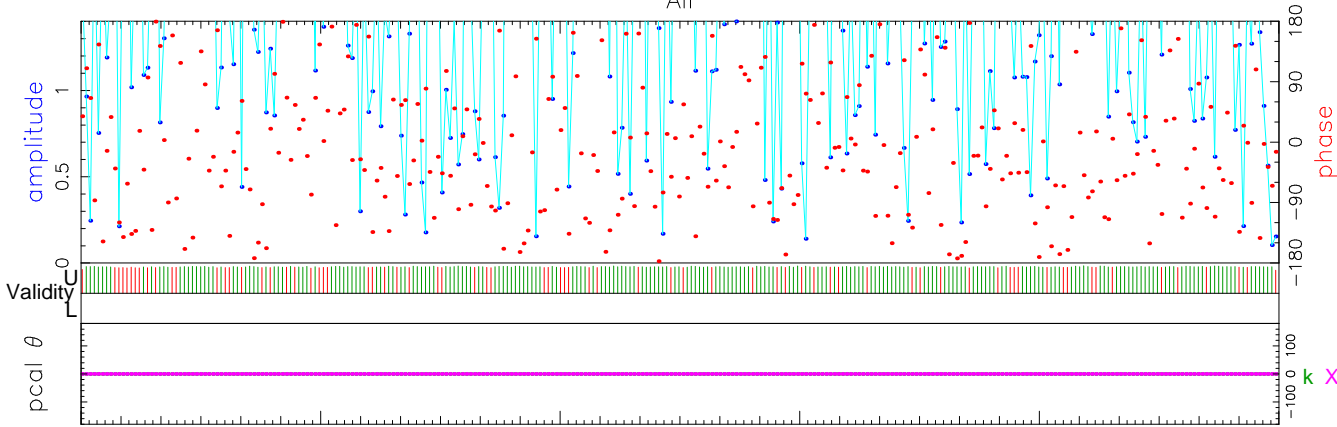
SNR 5.3
Int time 287.689
Amp 0.467
Phase 143.4
PFD 1.0e+00
Delays (us)
SBD -3.820507
MBD 0.000004
Fringe rate (Hz)
0.242039
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-41.0
0.5
24.0
U/L 586/0
k 1000
X 0
k:X 0:0
k:X 0:0
k 1000
X 1000
k W06UR
X W06UL

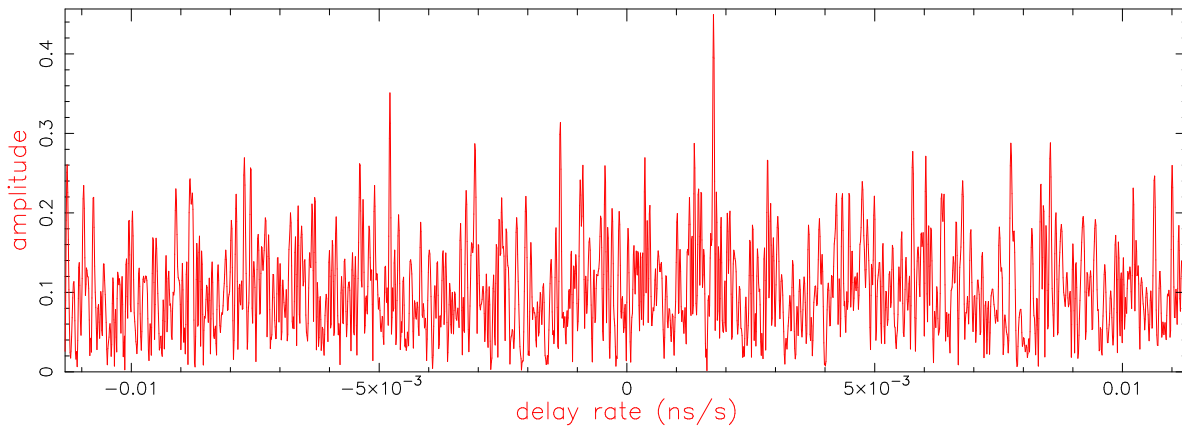
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.78510234269E+03	Apriori delay (usec)	-1.78128183988E+03	Resid mbdelay (usec)	4.35692E-06	+/-	3.3E-03
Sband delay (usec)	-1.78510234688E+03	Apriori clock (usec)	-1.5334518E+00	Resid sbdelay (usec)	-3.82051E+00	+/-	3.3E-03
Phase delay (usec)	-1.78128184121E+03	Apriori clockrate (us/s)	-7.1065999E-07	Resid phdelay (usec)	-1.32338E-06	+/-	7.0E-07
Delay rate (us/s)	1.83655995601E+00	Apriori rate (us/s)	1.83655714617E+00	Resid rate (us/s)	2.80983E-06	+/-	4.0E-09
Total phase (deg)	256.0	Apriori accel (us/s/s)	-4.23864104482E-07	Resid phase (deg)	143.4	+/-	21.7

ph/seg (deg)	90.1	Theor.	185.6	Amplitude	0.467 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	348.8	Search (2048X8)	0.450	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.285	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.459	Inc. frq. avg.	0.459	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

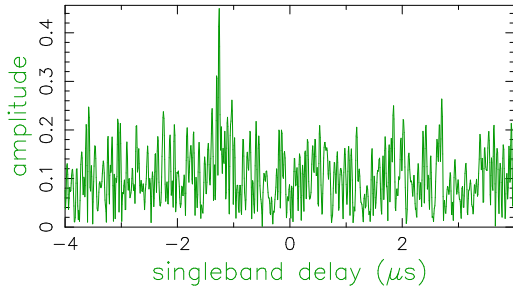
k: az 86.3 el 25.9 pa -61.9 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10955.738 -2621.372 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kX.W.217.0QR3WR

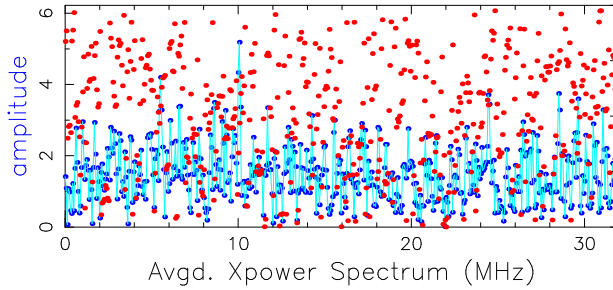


Fringe quality 0

SNR 5.1
Int time 273.921
Amp 0.457
Phase 195.3
PFD 1.0e+00
Delays (us)
SBD -1.259382
MBD 0.000006
Fringe rate (Hz)
0.150531
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



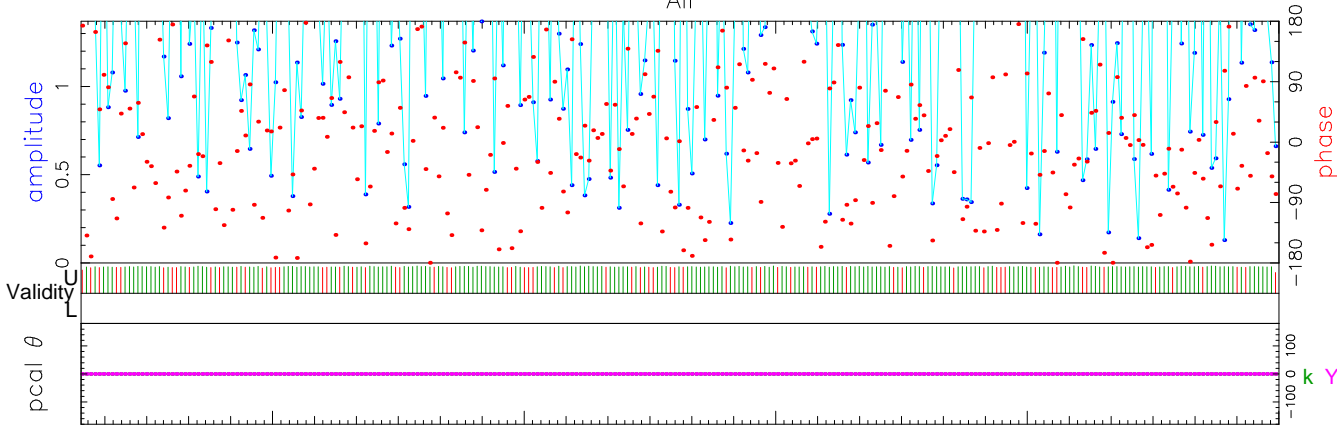
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-21.0
0.5
351.8
U/L 558/0
k 1000
Y 0
k:Y 0:0
k:Y 0:0
k 1000
Y 1000
k W06UL
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

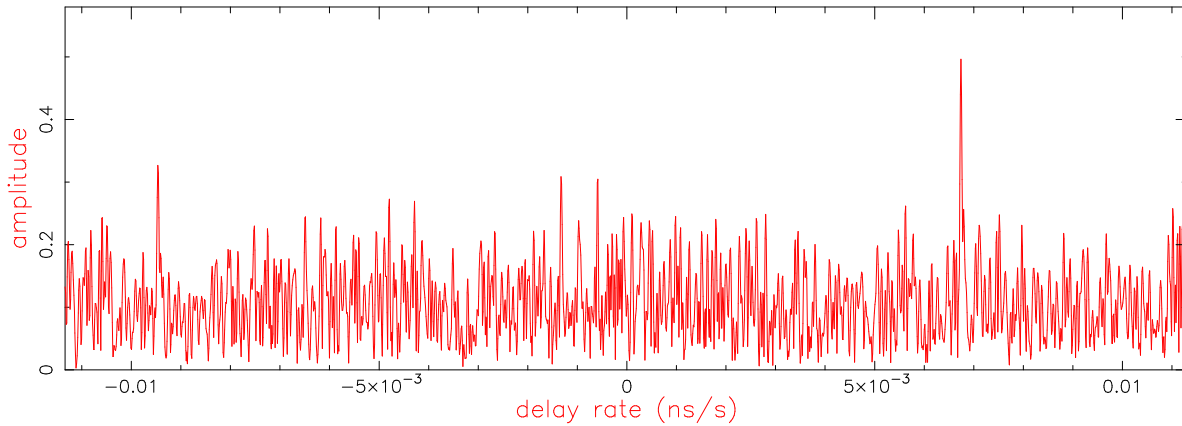
Group delay (usec)(sbd)	-6.20418202601E+03	Apriori delay (usec)	-6.20292264728E+03	Resid mbdelay (usec)	5.99063E-06	+/-	3.4E-03
Sband delay (usec)	-6.20418202978E+03	Apriori clock (usec)	1.6513575E+01	Resid sbdelay (usec)	-1.25938E+00	+/-	3.4E-03
Phase delay (usec)	-6.20292264796E+03	Apriori clockrate (us/s)	-1.2366001E-07	Resid phdelay (usec)	-6.76100E-07	+/-	7.2E-07
Delay rate (us/s)	1.90720758673E+00	Apriori rate (us/s)	1.90720583921E+00	Resid rate (us/s)	1.74752E-06	+/-	4.4E-09
Total phase (deg)	253.9	Apriori accel (us/s/s)	2.92716963624E-05	Resid phase (deg)	195.3	+/-	22.4

ph/seg (deg)	89.7	Theor.	187.1	Amplitude	0.457 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	370.9	Search (2048X8)	0.444	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.282	Inc. seg. avg.	0.282	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.6	Inc. frq. avg.	0.445	Inc. frq. avg.	0.445	Sample rate (MSamp/s):	64	mb window (us)	-0.000 0.000

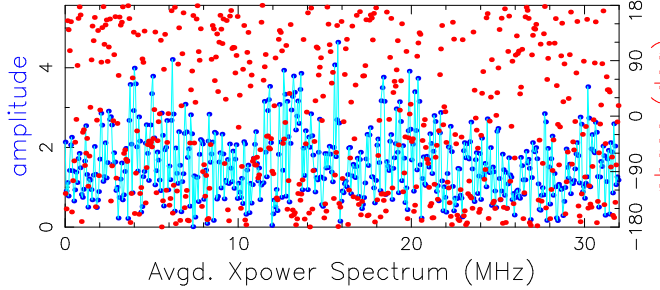
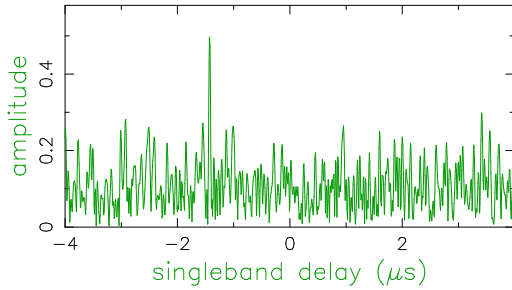
k: az 86.3 el 25.9 pa -61.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11338.761 -299.154 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//KY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//KY.W.162.0QR3WR

Fringe quality 0

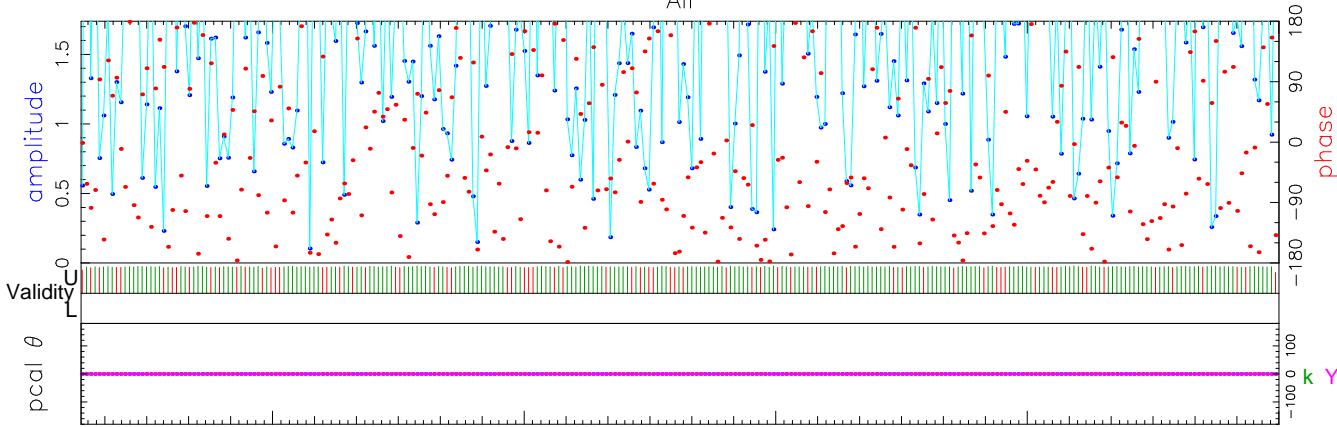


SNR 5.6
Int time 273.925
Amp 0.580
Phase 30.1
PFD 8.6e-01
Delays (us)
SBD -1.427763
MBD 0.000004
Fringe rate (Hz)
0.580125
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-105.6
0.6
330.2
U/L 558/0
k 1000
Y 0
k:Y 0:0
k:Y 0:0
k 1000
Y 1000
k W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.20435040730E+03	Apriori delay (usec)	-6.20292264728E+03	Resid mbdelay (usec)	4.35300E-06	+/-	3.1E-03
Sband delay (usec)	-6.20435041028E+03	Apriori clock (usec)	1.6513575E+01	Resid sbdelay (usec)	-1.42776E+00	+/-	3.1E-03
Phase delay (usec)	-6.20292265069E+03	Apriori clockrate (us/s)	-1.2366001E-07	Resid phdelay (usec)	-3.40607E-06	+/-	6.5E-07
Delay rate (us/s)	1.90721257389E+00	Apriori rate (us/s)	1.90720583921E+00	Resid rate (us/s)	6.73468E-06	+/-	4.0E-09
Total phase (deg)	88.7	Apriori accel (us/s/s)	2.92716963624E-05	Resid phase (deg)	30.1	+/-	20.3

ph/seg (deg)	RMS 91.6	Theor. 169.4	Amplitude Search (2048X8) 0.580 +/- 0.103	0.488	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	325.2	295.7	Interp. 0.000	0.568	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	10.1	Inc. seg. avg. 0.387		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.6	17.7	Inc. frq. avg. 0.568		Sample rate(MSamp/s): 64	mb window (us) -0.000 0.000
					Data rate(Mb/s): 128	dr window (ns/s) -0.011 0.011
					nlags: 512	t_cohere infinite
						ion window (TEC) 0.00 0.00

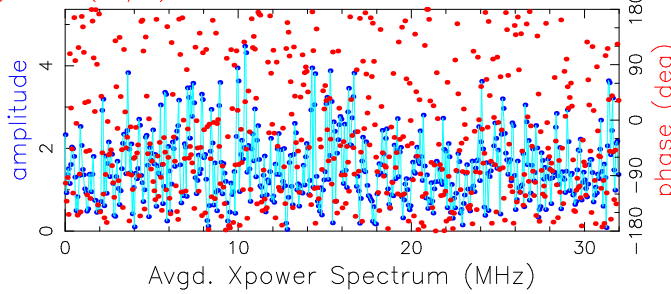
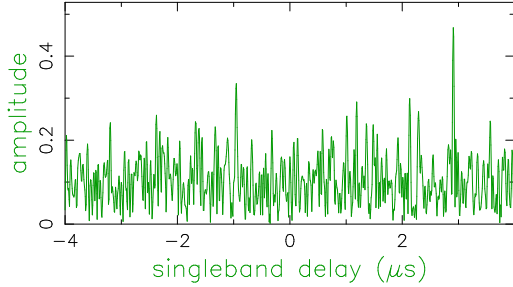
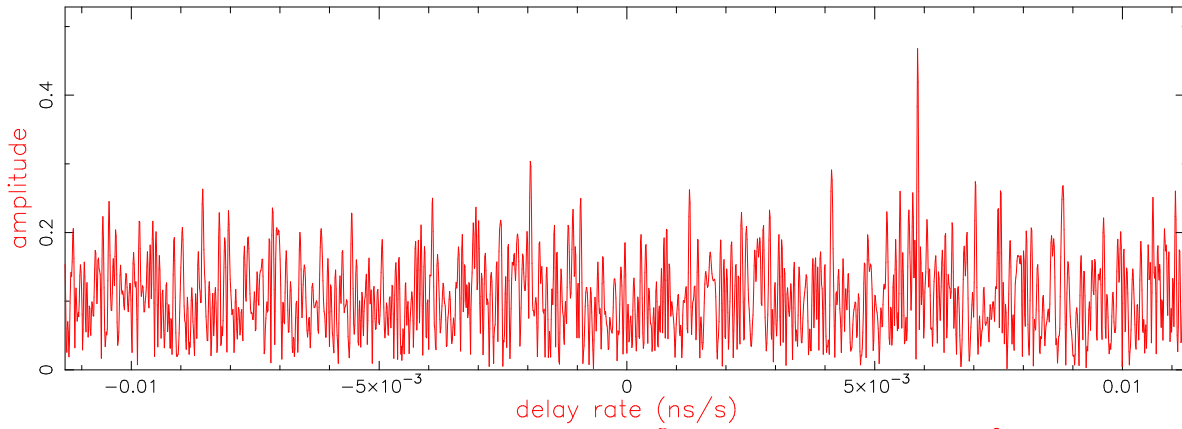
k: az 86.3 el 25.9 pa -61.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11338.761 -299.154 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//KY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//KY.W.182.0QR3WR

Fringe quality 0

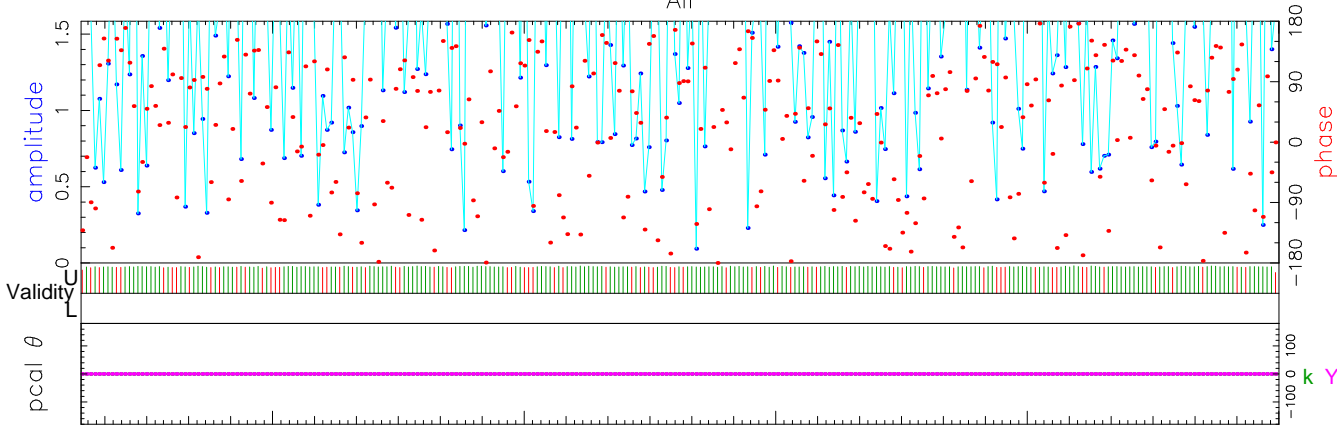
SNR 5.3
Int time 273.921
Amp 0.528
Phase -312.6
PFD 1.0e+00
Delays (us)
SBD 2.908512
MBD 0.000005
Fringe rate (Hz)
0.505323
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
99.4
0.5
885.3
U/L 558/0
k 1000
Y 0
k:Y 0:0
k:Y 0:0
k 1000
Y 1000
k W06UL
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

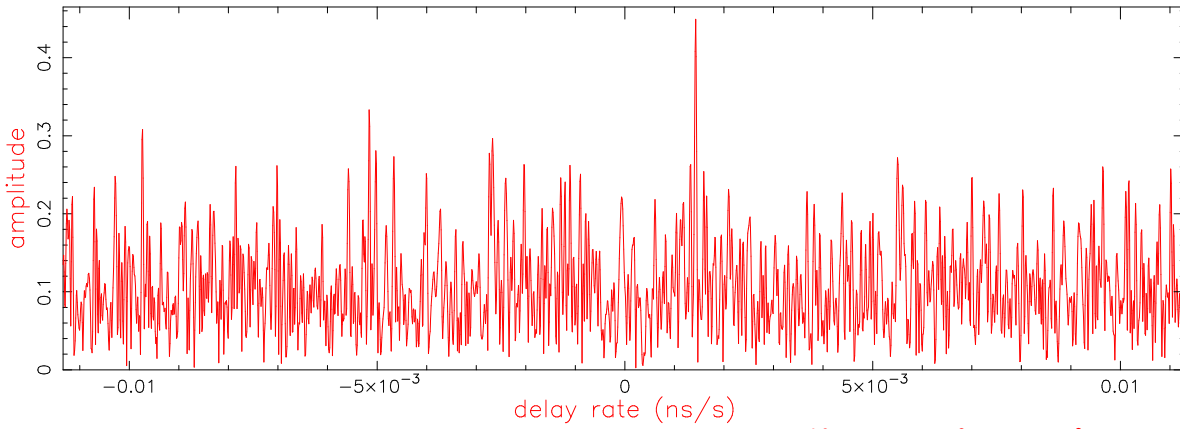
Group delay (usec)(sbd)	-6.20001413479E+03	Apriori delay (usec)	-6.20292264728E+03	Resid mbdelay (usec)	4.76730E-06	+/-	3.2E-03
Sband delay (usec)	-6.20001413528E+03	Apriori clock (usec)	1.6513575E+01	Resid sbdelay (usec)	2.90851E+00	+/-	3.2E-03
Phase delay (usec)	-6.20292264408E+03	Apriori clockrate (us/s)	-1.2366001E-07	Resid phdelay (usec)	3.20614E-06	+/-	6.9E-07
Delay rate (us/s)	1.90721170551E+00	Apriori rate (us/s)	1.90720583921E+00	Resid rate (us/s)	5.86630E-06	+/-	4.2E-09
Total phase (deg)	-253.9	Apriori accel (us/s/s)	2.92716963624E-05	Resid phase (deg)	-312.6	+/-	21.5

ph/seg (deg)	94.3	Theor.	179.1	Amplitude	0.528 +/- 0.099	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	348.4	Search (2048X8)	0.465	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.342	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.9	Inc. frq. avg.	0.515	Inc. frq. avg.	0.515	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

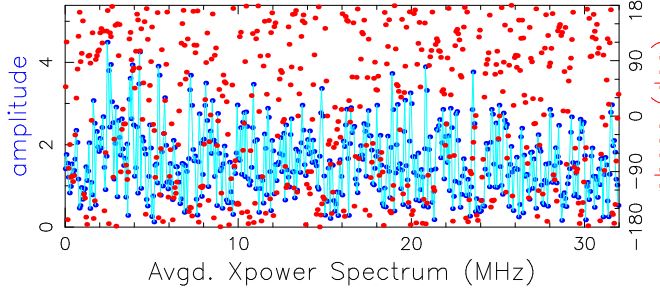
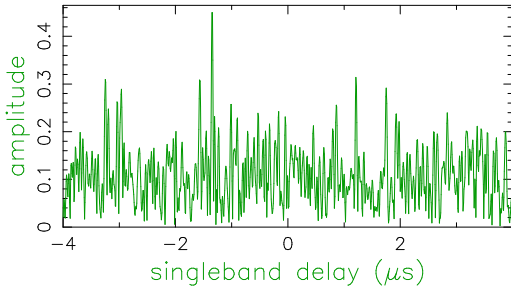
k: az 86.3 el 25.9 pa -61.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11338.761 -299.154 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//KY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//KY.W.205.0QR3WR

Fringe quality 0



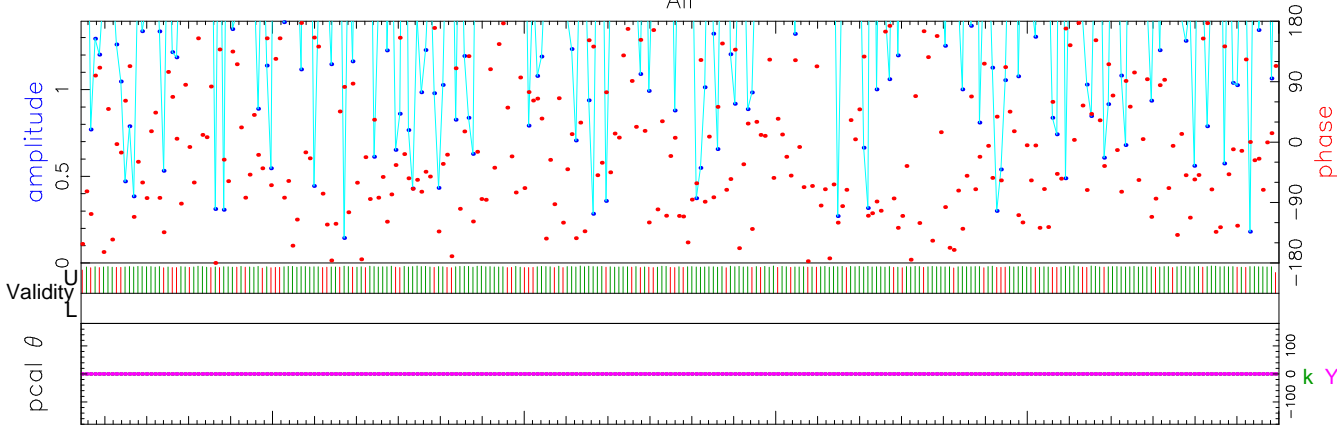
SNR 5.2
Int time 273.925
Amp 0.465
Phase 37.6
PFD 1.0e+00
Delays (us)
SBD -1.347615
MBD 0.000006
Fringe rate (Hz)
0.123185
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-51.5
0.5
340.5
U/L 558/0
k 1000
Y 0
k:Y 0:0
k:Y 0:0
k 1000
Y 1000
k W06UR
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp

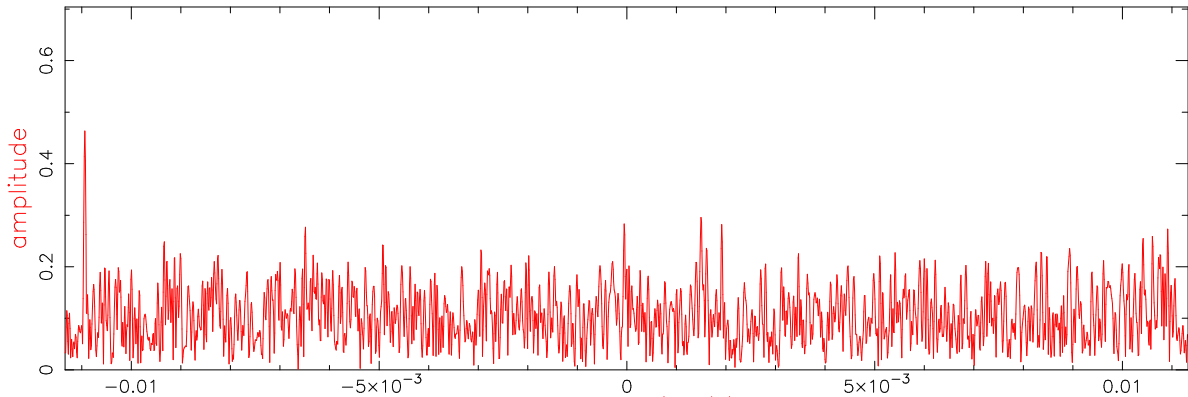
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.20427025893E+03	Apriori delay (usec)	-6.20292264728E+03	Resid mbdelay (usec)	5.63176E-06	+/-	3.3E-03
Sband delay (usec)	-6.20427026278E+03	Apriori clock (usec)	1.6513575E+01	Resid sbdelay (usec)	-1.34762E+00	+/-	3.3E-03
Phase delay (usec)	-6.20292264895E+03	Apriori clockrate (us/s)	-1.2366001E-07	Resid phdelay (usec)	-1.66068E-06	+/-	7.1E-07
Delay rate (us/s)	1.90720726927E+00	Apriori rate (us/s)	1.90720583921E+00	Resid rate (us/s)	1.43005E-06	+/-	4.3E-09
Total phase (deg)	96.3	Apriori accel (us/s/s)	2.92716963624E-05	Resid phase (deg)	37.6	+/-	21.9

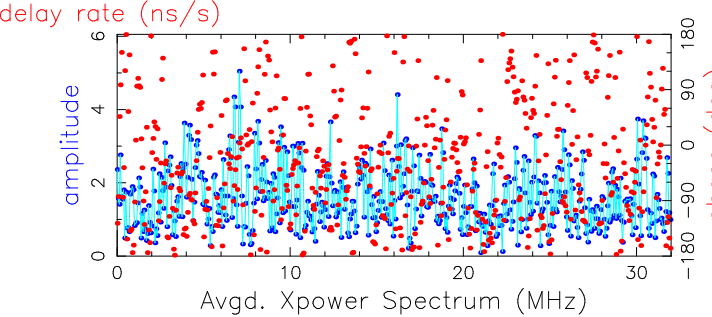
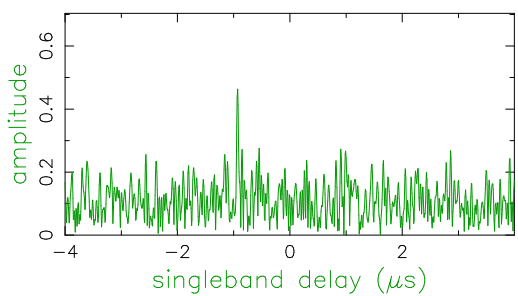
ph/seg (deg)	RMS 92.6	Theor. 183.1	Amplitude 0.465 +/- 0.089	Search (2048X8)	0.445	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	353.5	319.5	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.0	Inc. seg. avg.	0.301		Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	2.7	19.1	Inc. frq. avg.	0.444		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

k: az 86.3 el 25.9 pa -61.9 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11338.761 -299.154 simultaneous interpolator

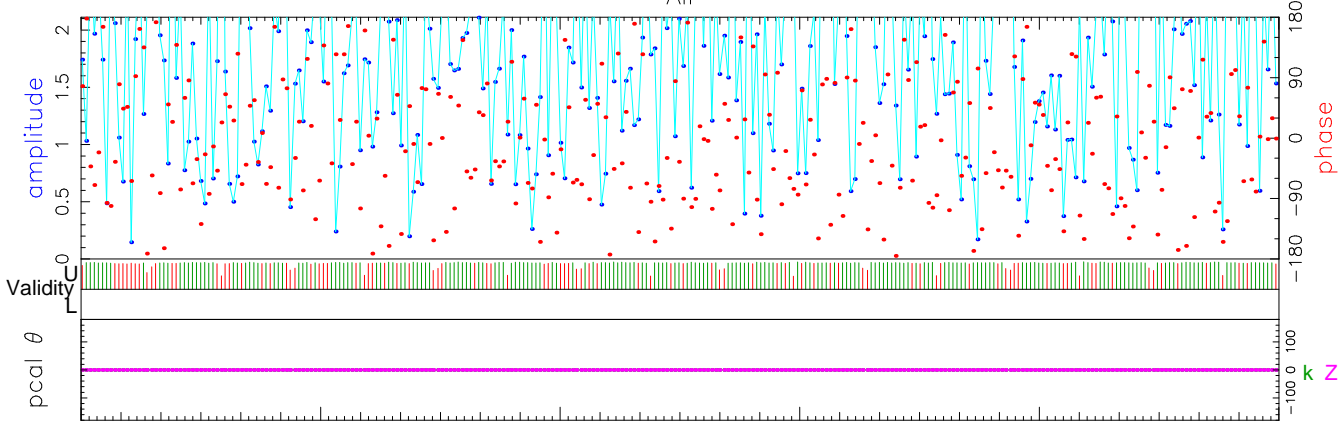
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//KY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//KY.W.218.0QR3WR



Fringe quality 0
SNR 5.3
Int time 280.020
Amp 0.704
Phase 177.9
PFD 1.0e+00
Delays (us)
SBD -0.930816
MBD -0.000006
Fringe rate (Hz)
-0.941691
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-27.8
0.7
393.9
U/L 586/0
k 1000
Z 0
k:Z 0:0
k:Z 0:0
k 1000
Z 1000
k W06UL
Z W06UL

Validity
pcal θ

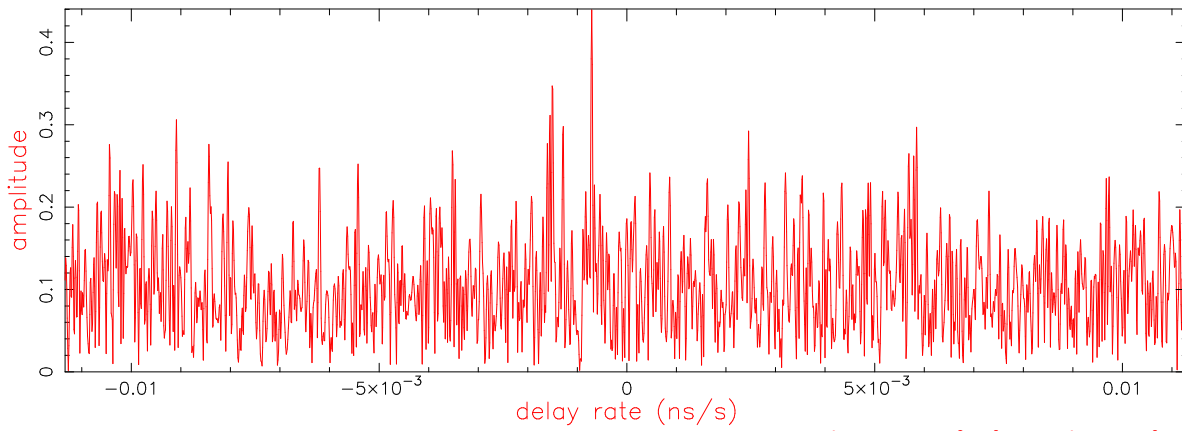
86204.00
-27.8
0.7
393.9
U/L 586/0
k 1000
Z 0
k:Z 0:0
k:Z 0:0
k 1000
Z 1000
k W06UL
Z W06UL

Chan ids
Chan ids

Group delay (usec)(sbd)	5.21645145535E+02	Apriori delay (usec)	5.22575955705E+02	Resid mbdelay (usec)	-6.49501E-06	+/-	3.2E-03
Sband delay (usec)	5.21645140205E+02	Apriori clock (usec)	2.3388342E+01	Resid sbdelay (usec)	-9.30816E-01	+/-	3.2E-03
Phase delay (usec)	5.22575954807E+02	Apriori clockrate (us/s)	-4.8066000E-07	Resid phdelay (usec)	-8.97802E-07	+/-	7.0E-07
Delay rate (us/s)	1.86221128952E+00	Apriori rate (us/s)	1.86222222162E+00	Resid rate (us/s)	-1.09321E-05	+/-	4.0E-09
Total phase (deg)	114.7	Apriori accel (us/s/s)	-1.33499067039E-05	Resid phase (deg)	177.9	+/-	21.6

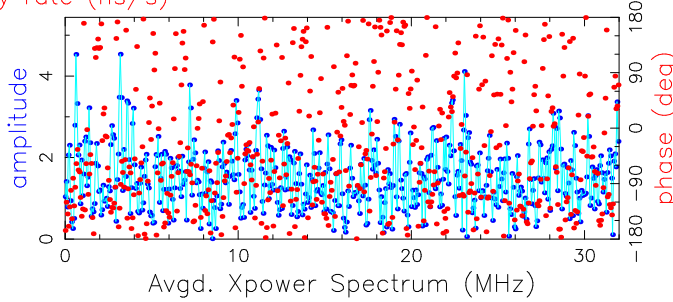
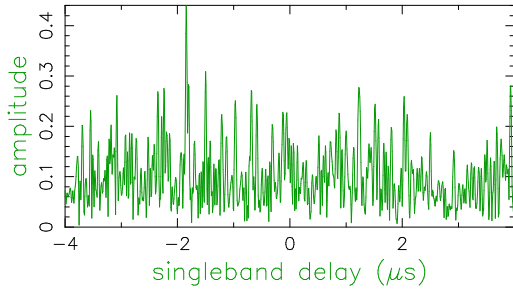
ph/seg (deg) 89.6 184.7 Search (2048X8) 0.450 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 351.5 322.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 10.8 Inc. seg. avg. 0.444 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 0.2 18.8 Inc. frq. avg. 0.691 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

k: az 86.3 el 25.9 pa -61.9 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -11125.226 -3134.190 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kZ.W.153.0QR3WR



Fringe quality 0

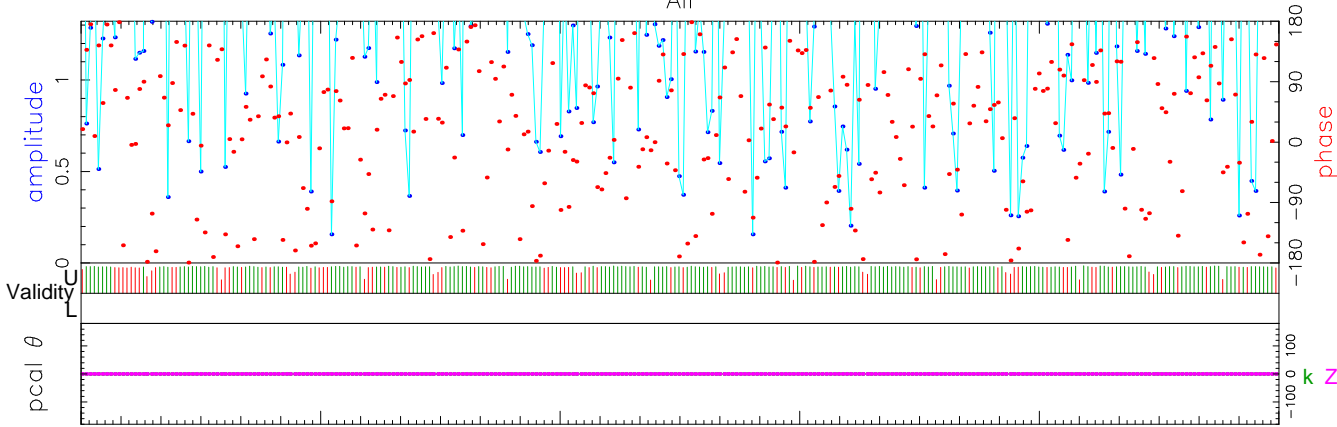
SNR 5.0
Int time 280.024
Amp 0.441
Phase 68.3
PFD 1.0e+00
Delays (us)
SBD -1.843091
MBD -0.000007
Fringe rate (Hz)
-0.061280
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
83.7
0.4
277.1
U/L 586/0
k 1000
Z 0
k:Z 0:0
k:Z 0:0
k 1000
Z 1000
k W06UR
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

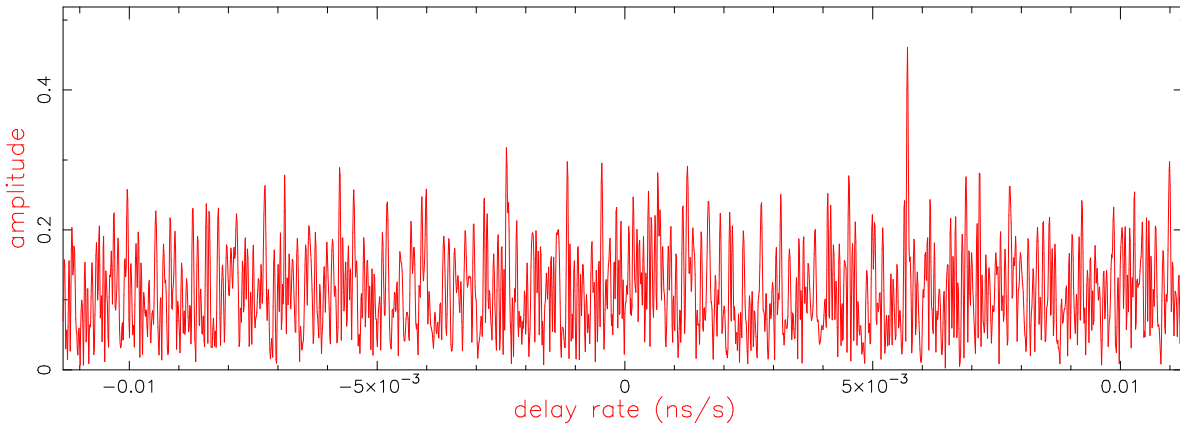
Group delay (usec)(sbd)	5.20732866931E+02	Apriori delay (usec)	5.22575955705E+02	Resid mbdelay (usec)	-7.24558E-06	+/- 3.4E-03
Sband delay (usec)	5.20732865205E+02	Apriori clock (usec)	2.3388342E+01	Resid sbdelay (usec)	-1.84309E+00	+/- 3.4E-03
Phase delay (usec)	5.22575958402E+02	Apriori clockrate (us/s)	-4.8066000E-07	Resid phdelay (usec)	2.69776E-06	+/- 7.3E-07
Delay rate (us/s)	1.86222151022E+00	Apriori rate (us/s)	1.86222222162E+00	Resid rate (us/s)	-7.11396E-07	+/- 4.2E-09
Total phase (deg)	5.0	Apriori accel (us/s/s)	-1.33499067039E-05	Resid phase (deg)	68.3	+/- 22.8

ph/seg (deg)	RMS 91.0	Theor. 194.9	Amplitude Search (2048X8)	0.441 +/- 0.088	0.433	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	393.9	340.2	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.4	Inc. seg. avg.	0.272		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1	19.9	Inc. frq. avg.	0.432		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128				
						nlags: 512	t_cohere infinite			

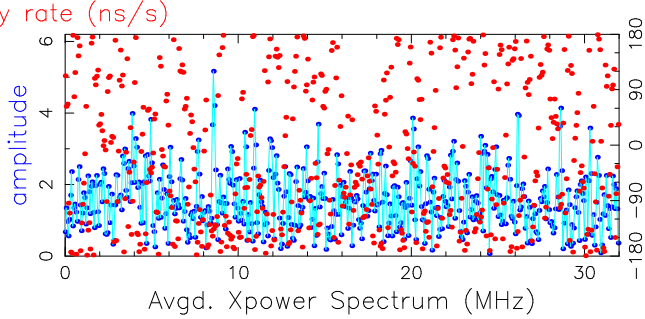
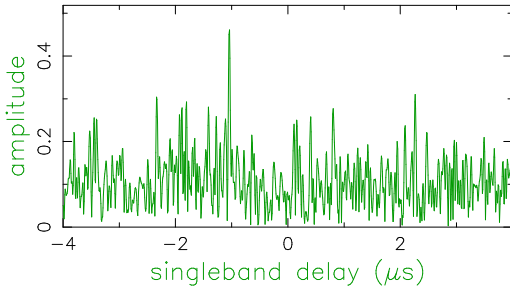
k: az 86.3 el 25.9 pa -61.9 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -11125.226 -3134.190 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kZ.W.169.0QR3WR

Fringe quality 0

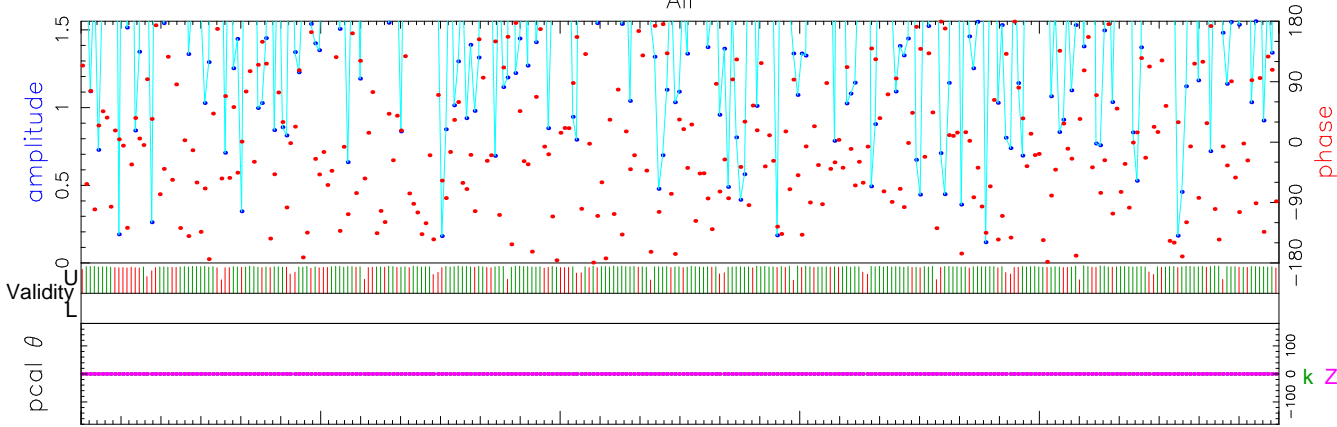


SNR 5.3
Int time 280.020
Amp 0.519
Phase 214.8
PFD 1.0e+00
Delays (us)
SBD -1.041903
MBD 0.000005
Fringe rate (Hz)
0.491071
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-30.9
0.5
379.6
U/L 586/0
k 1000
Z 0
k:Z 0:0
k:Z 0:0
k 1000
Z 1000
k W06UL
Z W06UR

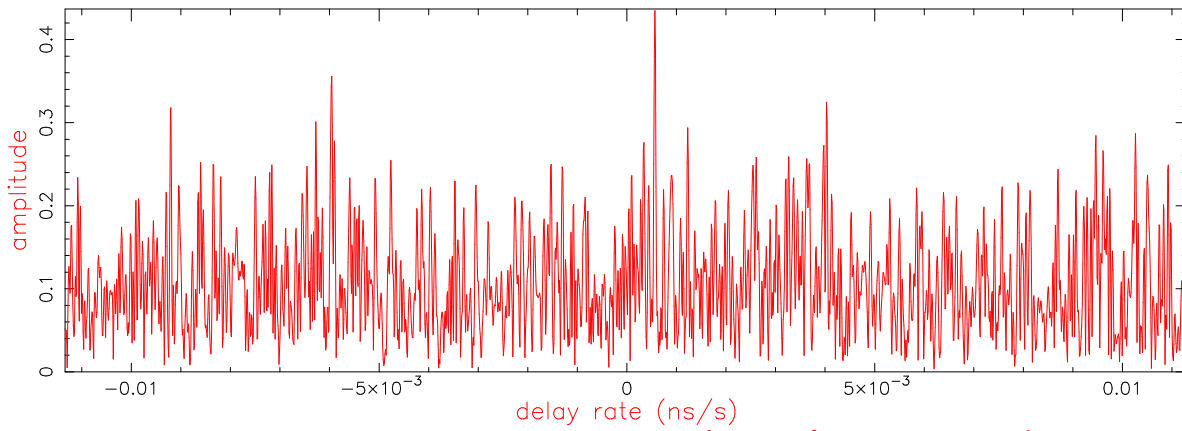
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.21534048786E+02	Apriori delay (usec)	5.22575955705E+02	Resid mbdelay (usec)	5.28941E-06	+/-	3.2E-03
Sband delay (usec)	5.21534052705E+02	Apriori clock (usec)	2.3388342E+01	Resid sbdelay (usec)	-1.04190E+00	+/-	3.2E-03
Phase delay (usec)	5.22575954709E+02	Apriori clockrate (us/s)	-4.8066000E-07	Resid phdelay (usec)	-9.95826E-07	+/-	6.9E-07
Delay rate (us/s)	1.86222792246E+00	Apriori rate (us/s)	1.86222222162E+00	Resid rate (us/s)	5.70084E-06	+/-	4.0E-09
Total phase (deg)	151.6	Apriori accel (us/s/s)	-1.33499067039E-05	Resid phase (deg)	214.8	+/-	21.5

ph/seg (deg)	92.4	Theor.	183.8	Amplitude	0.519 +/- 0.097	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	383.0	Search (2048X8)	0.457	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.352	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.1	Inc. frq. avg.	0.504	Inc. frq. avg.	0.504	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

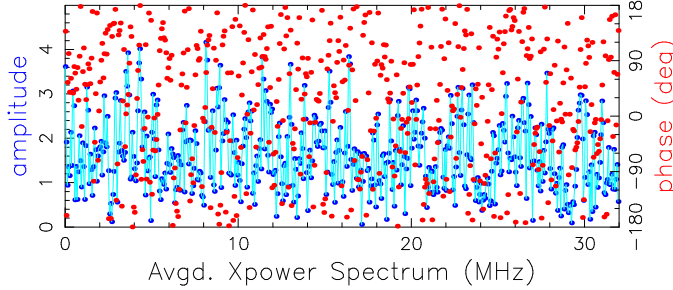
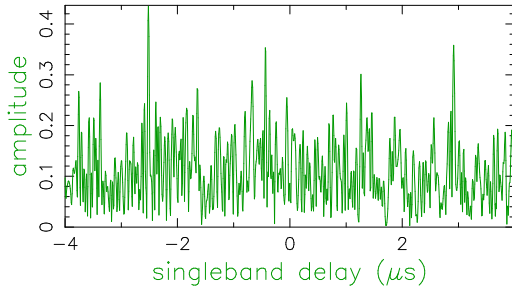
k: az 86.3 el 25.9 pa -61.9 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -11125.226 -3134.190 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kZ.W.181.0QR3WR



Fringe quality 0

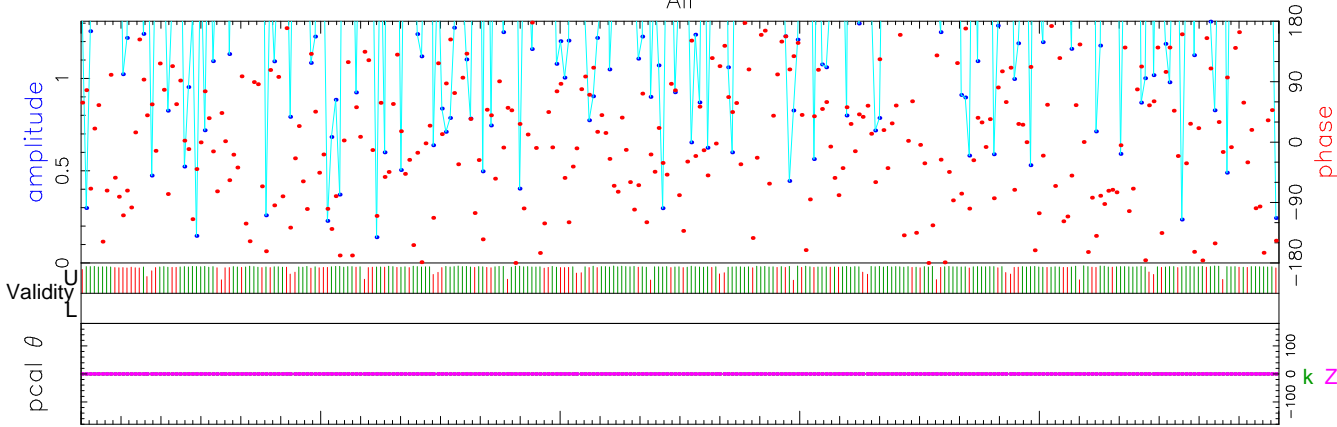
SNR 5.0
Int time 280.024
Amp 0.437
Phase 39.4
PFD 1.0e+00
Delays (us)
SBD -2.517129
MBD 0.000004
Fringe rate (Hz)
0.048702
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
4.6
0.4
190.8
U/L 586/0
k 1000
Z 0
k:Z 0:0
k:Z 0:0
k 1000
Z 1000
k W06UR
Z W06UL

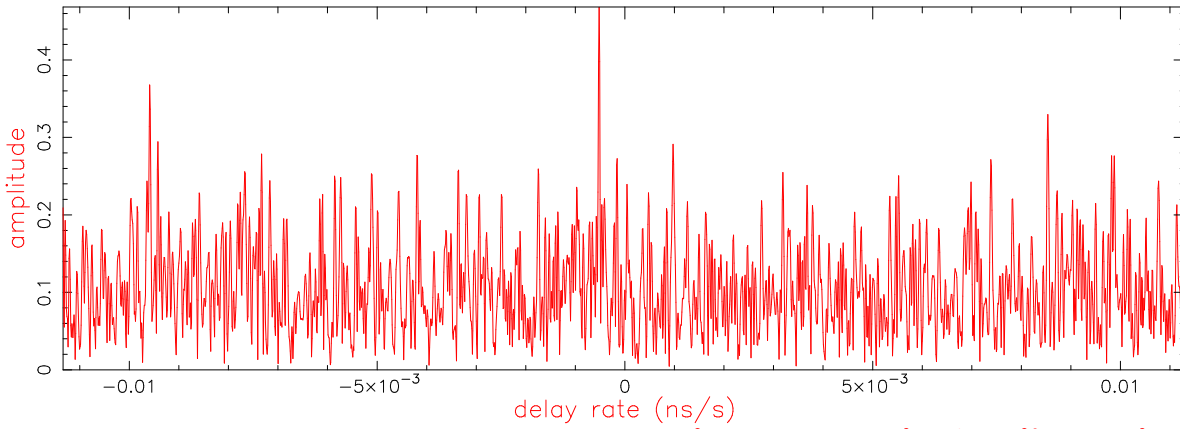
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.20058826300E+02	Apriori delay (usec)	5.22575955705E+02	Resid mbdelay (usec)	4.37149E-06	+/-	3.5E-03
Sband delay (usec)	5.20058826205E+02	Apriori clock (usec)	2.3388342E+01	Resid sbdelay (usec)	-2.51713E+00	+/-	3.5E-03
Phase delay (usec)	5.22575955853E+02	Apriori clockrate (us/s)	-4.8066000E-07	Resid phdelay (usec)	1.48702E-07	+/-	7.4E-07
Delay rate (us/s)	1.86222278700E+00	Apriori rate (us/s)	1.86222222162E+00	Resid rate (us/s)	5.65380E-07	+/-	4.3E-09
Total phase (deg)	336.2	Apriori accel (us/s/s)	-1.33499067039E-05	Resid phase (deg)	39.4	+/-	23.0

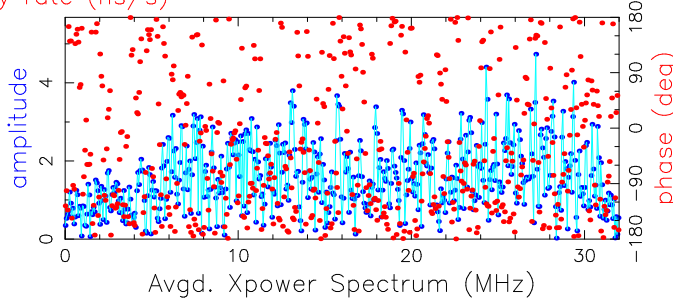
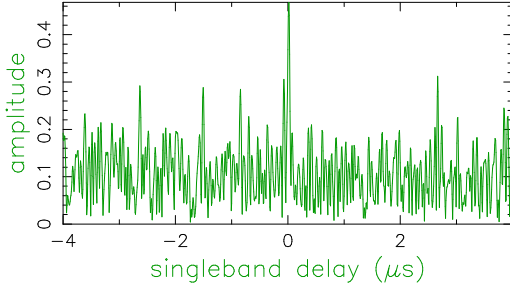
ph/seg (deg)	RMS 91.5	Theor. 196.4	Amplitude 0.437 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	398.5	342.8	Search (2048X8) 0.433	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	11.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.4	20.0	Inc. seg. avg. 0.273	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.427	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

k: az 86.3 el 25.9 pa -61.9 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -11125.226 -3134.190 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//kZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//kZ.W.191.0QR3WR

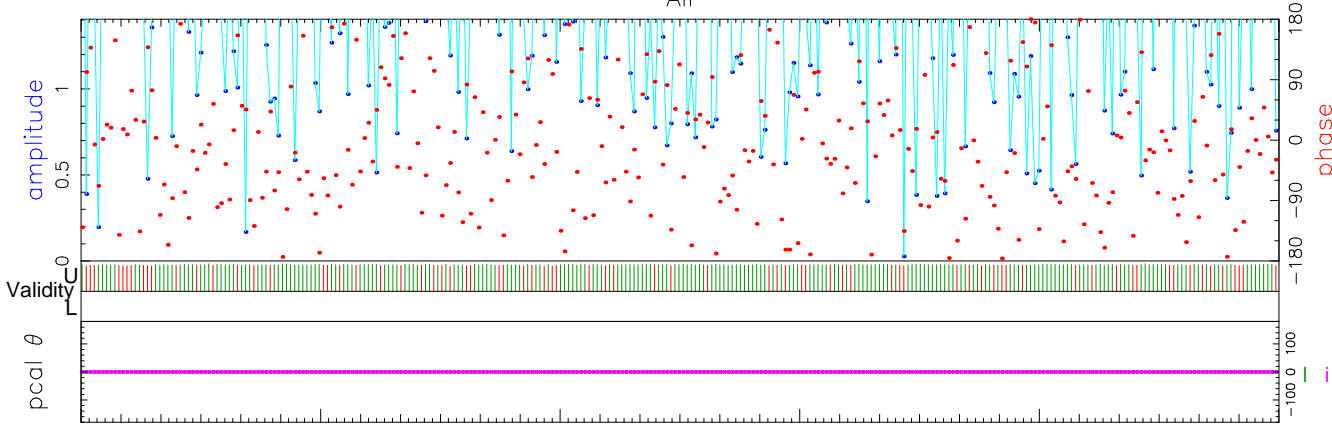


Fringe quality 0
SNR 5.4
Int time 288.134
Amp 0.468
Phase -45.4
PFD 1.0e+00
Delays (us)
SBD 0.015942
MBD -0.000005
Fringe rate (Hz)
-0.044544
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



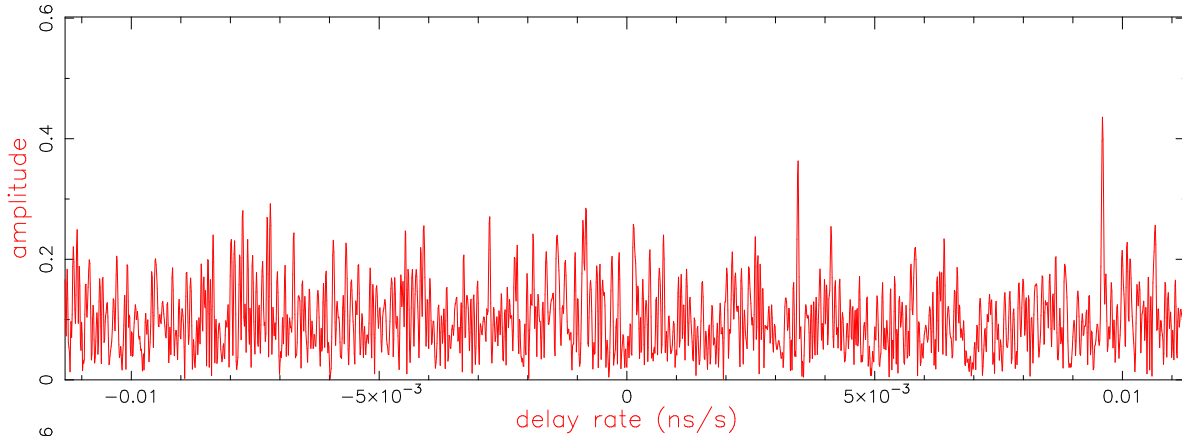
86204.00
-37.9
0.5
515.0
U/L 586/0
| 1000
i 0
l:i 0:0
l:i 0:0
| 1000
i 1000
| W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

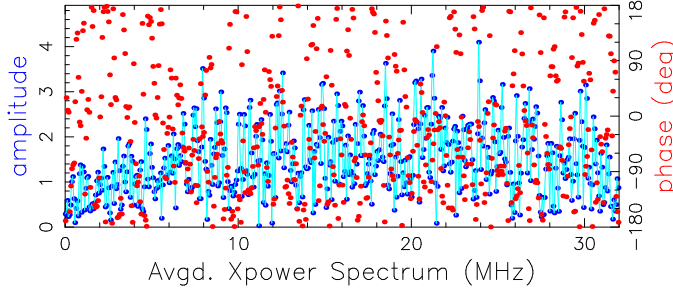
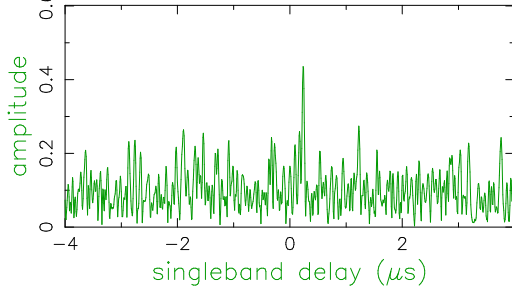
Group delay (usec)(sbd)	-5.10970798764E+03	Apriori delay (usec)	-5.10972393295E+03	Resid mbdelay (usec)	-5.21925E-06	+/-	3.2E-03
Sband delay (usec)	-5.10970799095E+03	Apriori clock (usec)	1.3753412E+01	Resid sbdelay (usec)	1.59420E-02	+/-	3.2E-03
Phase delay (usec)	-5.10972393418E+03	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	-1.22354E-06	+/-	6.8E-07
Delay rate (us/s)	1.84092753416E+00	Apriori rate (us/s)	1.84092805127E+00	Resid rate (us/s)	-5.17107E-07	+/-	3.9E-09
Total phase (deg)	-255.9	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	-45.4	+/-	21.1

ph/seg (deg)	89.6	Theor.	180.6	Amplitude	0.468 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	353.3	Search (2048X8)	0.459	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.308	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.461	Inc. frq. avg.	0.461	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

l: az 91.3 el 30.4 pa -57.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//li..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//li.W.154.0QR3WR

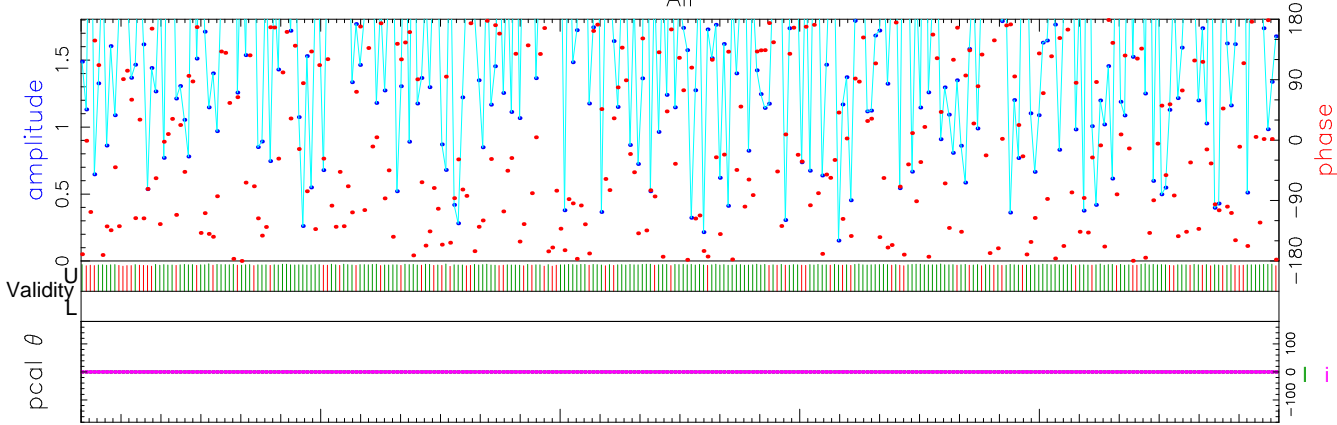


Fringe quality 0
SNR 5.1
Int time 288.141
Amp 0.602
Phase -223.4
PFD 1.0e+00
Delays (us)
SBD 0.237467
MBD 0.000004
Fringe rate (Hz)
0.826211
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

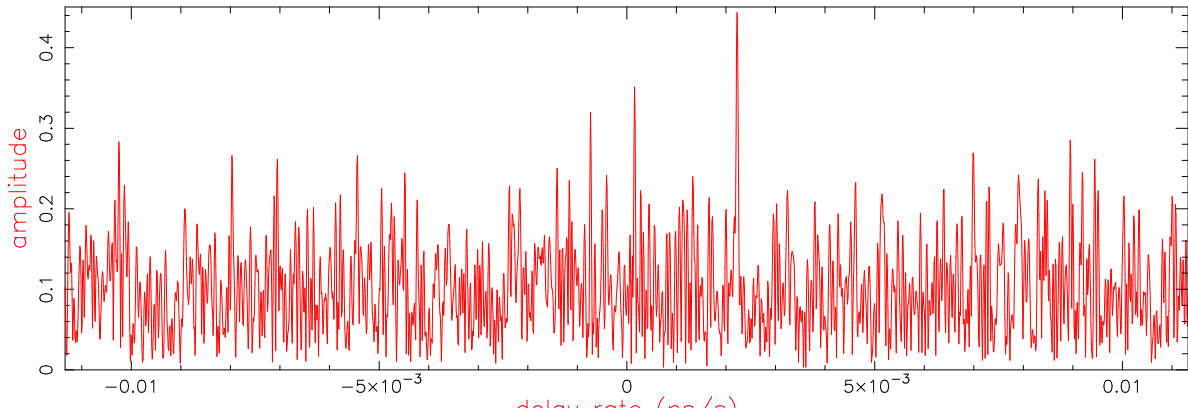


86204.00 Freq (MHz)
-152.4 Phase
0.6 Ampl.
543.4 Sbd box
U/L 586/0 APs used
| 1000 PC freqs
| 0 PC freqs
| i 0:0 PC phase
| i 0:0 Manl PC
| 1000 PC amp
| 1000
| W06UR Chan ids
| W06UR Chan ids

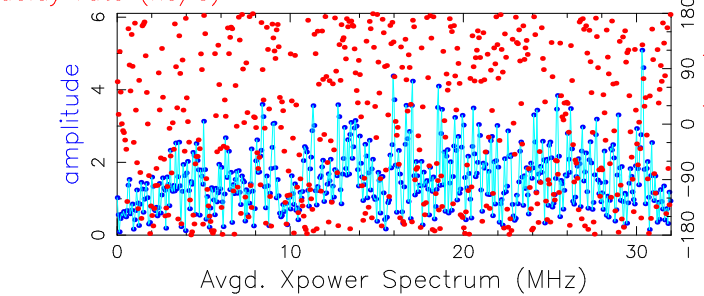
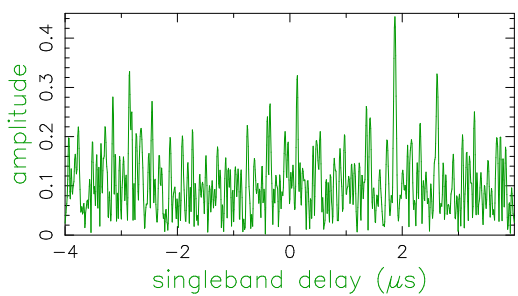
Group delay (usec)(sbd)	-5.10948646862E+03	Apriori delay (usec)	-5.10972393295E+03	Resid mbdelay (usec)	4.35476E-06	+/-	3.4E-03
Sband delay (usec)	-5.10948646545E+03	Apriori clock (usec)	1.3753412E+01	Resid sbdelay (usec)	2.37467E-01	+/-	3.4E-03
Phase delay (usec)	-5.10972393787E+03	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	-4.91354E-06	+/-	7.2E-07
Delay rate (us/s)	1.84093764276E+00	Apriori rate (us/s)	1.84092805127E+00	Resid rate (us/s)	9.59149E-06	+/-	4.2E-09
Total phase (deg)	-73.9	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	-223.4	+/-	22.5

ph/seg (deg)	89.7	Theor.	192.2	Amplitude	0.602 +/- 0.118	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	360.8	Search (2048X8)	0.428	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
ph/frq (deg)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.9	Inc. seg. avg.	0.363	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.585	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00		

l: az 91.3 el 30.4 pa -57.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//li..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//li.W.170.0QR3WR

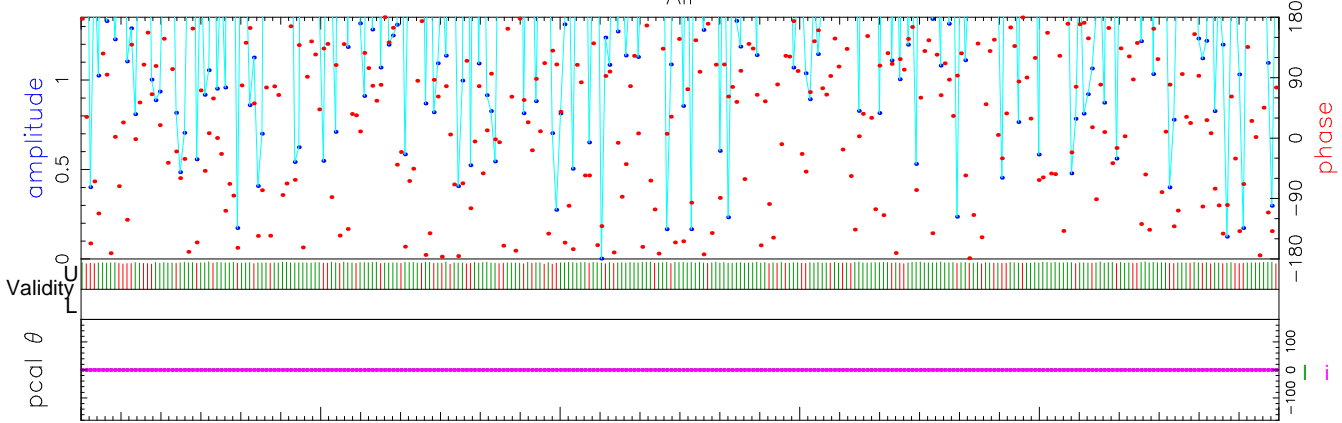


Fringe quality 0
SNR 5.1
Int time 288.134
Amp 0.451
Phase -65.6
PFD 1.0e+00
Delays (us)
SBD 1.867339
MBD 0.000004
Fringe rate (Hz)
0.191908
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
117.9 Phase
0.5 Ampl.
752.0 Sbd box
U/L 586/0 APs used
| 1000 PC freqs
| 0 PC freqs
| i 0:0 PC phase
| i 0:0 Manl PC
| 1000 PC amp
| 1000
| W06UL Chan ids
| W06UR Chan ids

Group delay (usec)(sbd)	-5.10785659065E+03	Apriori delay (usec)	-5.10972393295E+03	Resid mbdelay (usec)	4.35537E-06	+/-	3.3E-03
Sband delay (usec)	-5.10785659445E+03	Apriori clock (usec)	1.3753412E+01	Resid sbdelay (usec)	1.86734E+00	+/-	3.3E-03
Phase delay (usec)	-5.10972392915E+03	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	3.80140E-06	+/-	7.2E-07
Delay rate (us/s)	1.84093027913E+00	Apriori rate (us/s)	1.84092805127E+00	Resid rate (us/s)	2.22786E-06	+/-	4.1E-09
Total phase (deg)	-276.0	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	-65.6	+/-	22.3

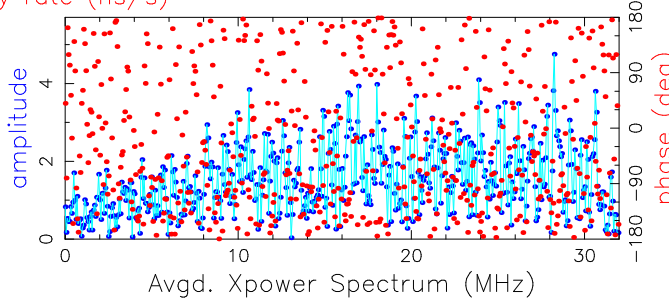
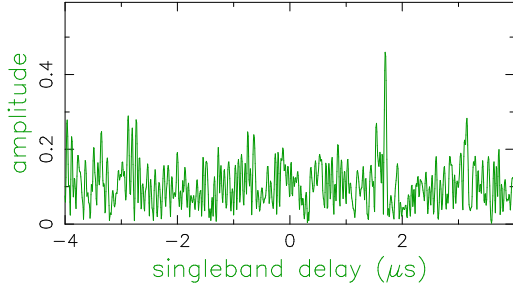
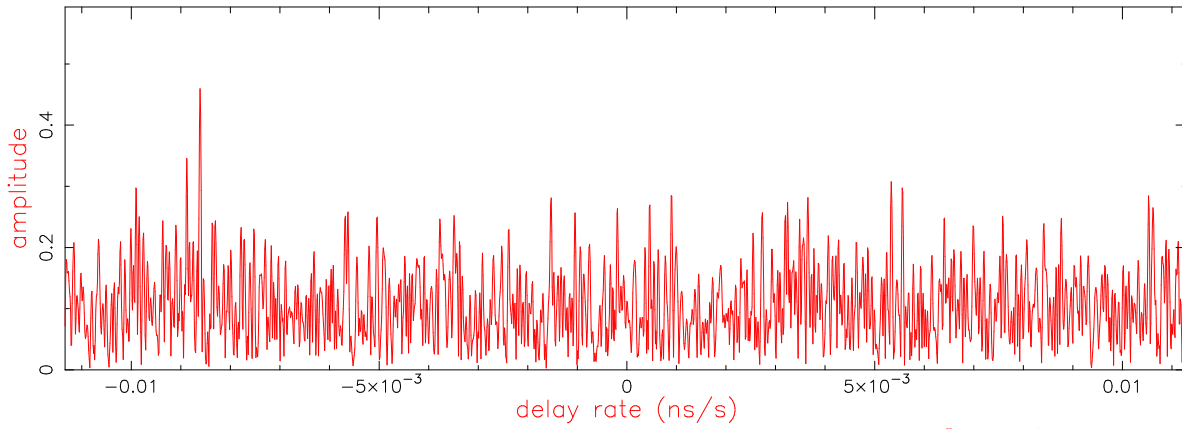
ph/seg (deg)	94.2	Theor.	190.6	Amplitude	0.451 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	381.2	Search (2048X8)	0.438	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.286	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.442	Inc. frq. avg.	0.442	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

l: az 91.3 el 30.4 pa -57.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//li..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//li.W.185.0QR3WR

Fringe quality 0

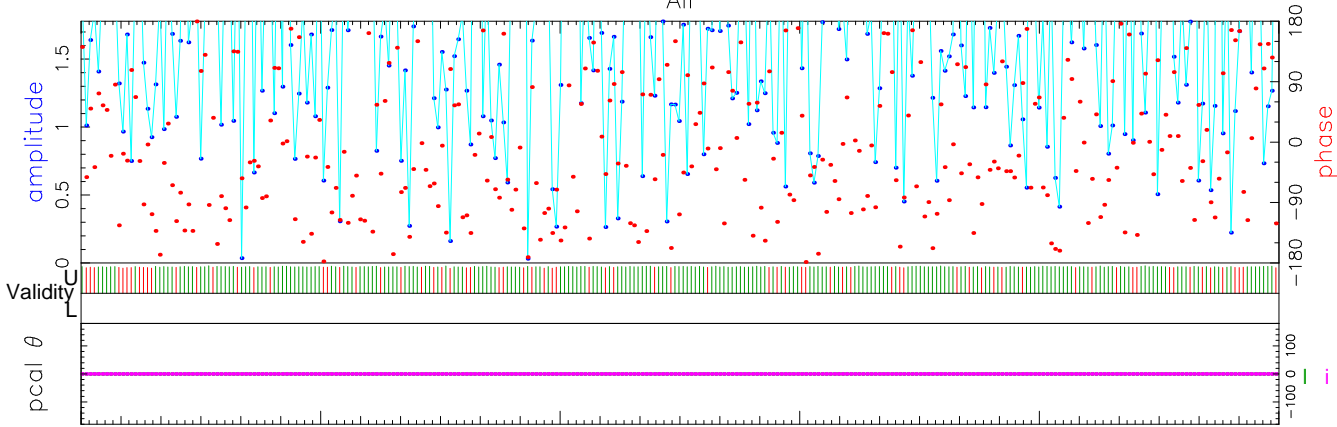
SNR 5.4
Int time 288.141
Amp 0.593
Phase -300.5
PFD 1.0e+00
Delays (us)
SBD 1.697716
MBD -0.000007
Fringe rate (Hz)
-0.741214
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-64.8
0.6
730.3
U/L 586/0
| 1000
i 0
l:i 0:0
l:i 0:0
| 1000
i 1000
| W06UR
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.10802621156E+03	Apriori delay (usec)	-5.10972393295E+03	Resid mbdelay (usec)	-7.24804E-06	+/-	3.2E-03
Sband delay (usec)	-5.10802621645E+03	Apriori clock (usec)	1.3753412E+01	Resid sbdelay (usec)	1.69772E+00	+/-	3.2E-03
Phase delay (usec)	-5.10972393504E+03	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	-2.09115E-06	+/-	6.9E-07
Delay rate (us/s)	1.84091944651E+00	Apriori rate (us/s)	1.84092805127E+00	Resid rate (us/s)	-8.60476E-06	+/-	4.0E-09
Total phase (deg)	-150.9	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	-300.5	+/-	21.4

ph/seg (deg)	93.9	Theor.	182.8	Amplitude	0.593 +/- 0.111	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	378.5	Search (2048X8)	0.456	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.396	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.6	Inc. frq. avg.	0.579	Inc. frq. avg.	0.396	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

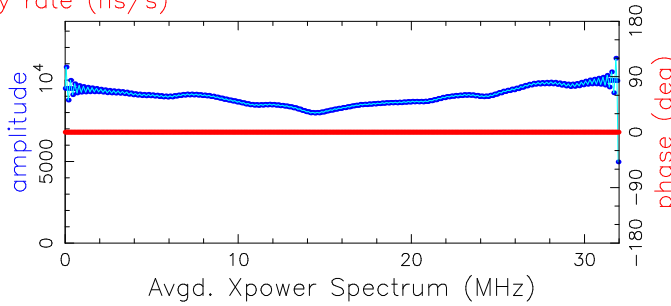
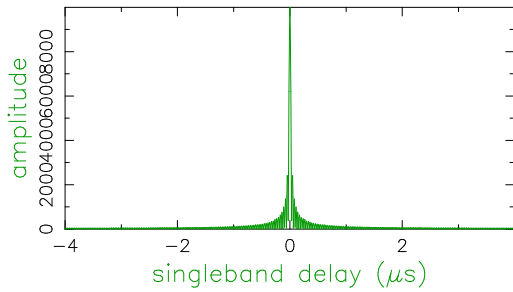
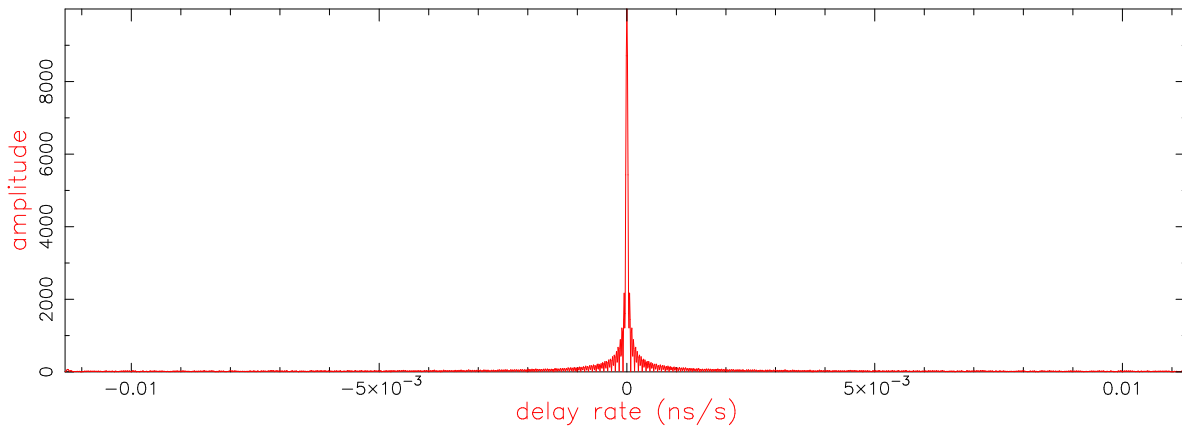
l: az 91.3 el 30.4 pa -57.6 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//li..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//li.W.209.0QR3WR

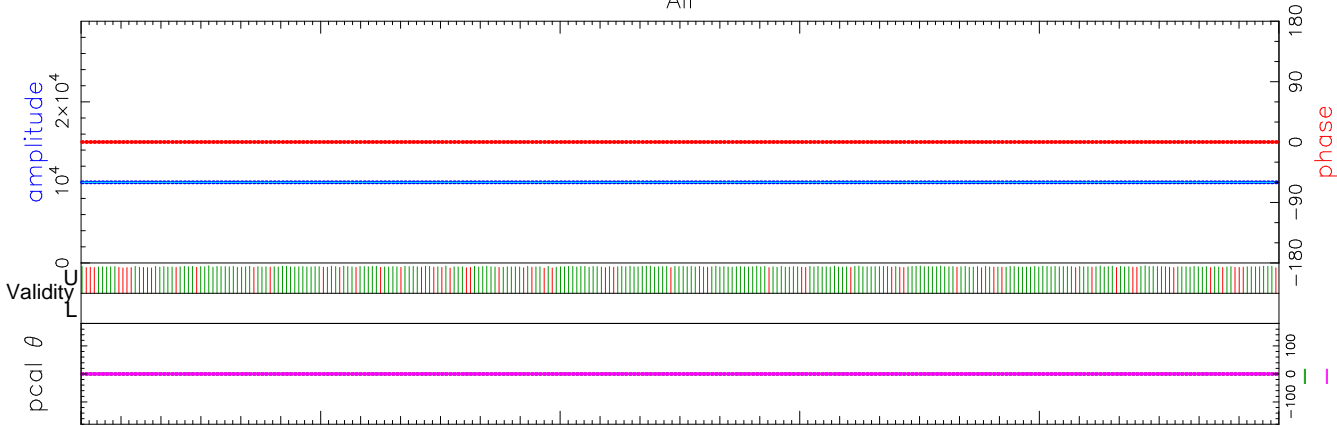
Fringe quality 9

SNR 116145.2
Int time 288.621
Amp 9999.995
Phase 0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
0.1 Phase
10000.0 Ampl.
513.0 Sbd box
U/L 586/0 APs used
| 1000 PC freqs
| 1000 PC freqs
|:| 0:0 PC phase
|:| 0:0 Mani PC
| 1000 PC amp
| 1000
| W06UL Chan ids
| W06UL Chan ids

Group delay (usec)(sbd) -4.78075263329E-06 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -4.78075E-06 +/- 1.5E-07
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-07
Phase delay (usec) 4.43998387118E-09 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 4.43998E-09 +/- 3.2E-11
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 1.8E-13
Total phase (deg) 0.1 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.1 +/- 0.0

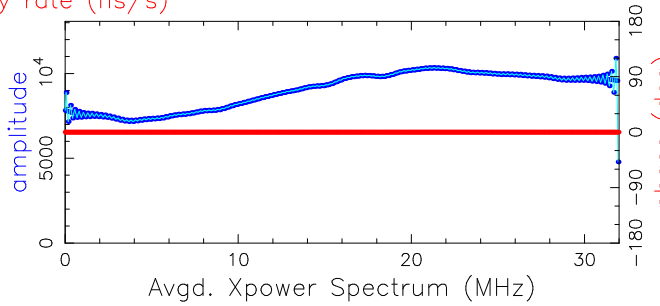
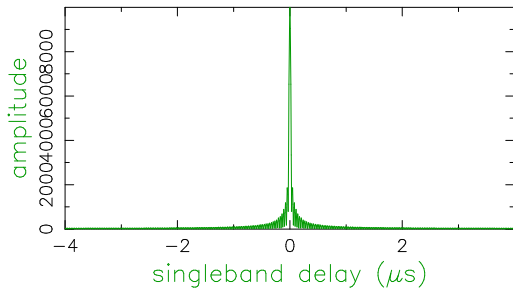
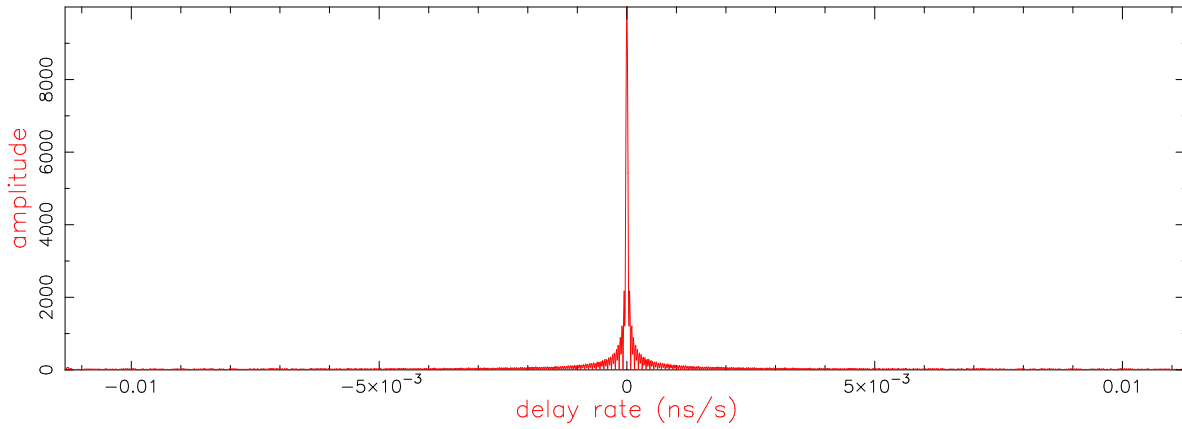
RMS Theor. Amplitude 9999.995 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X8) 9999.995 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.995 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 91.3 el 30.4 pa -57.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//II..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//II.W.164.0QR3WR

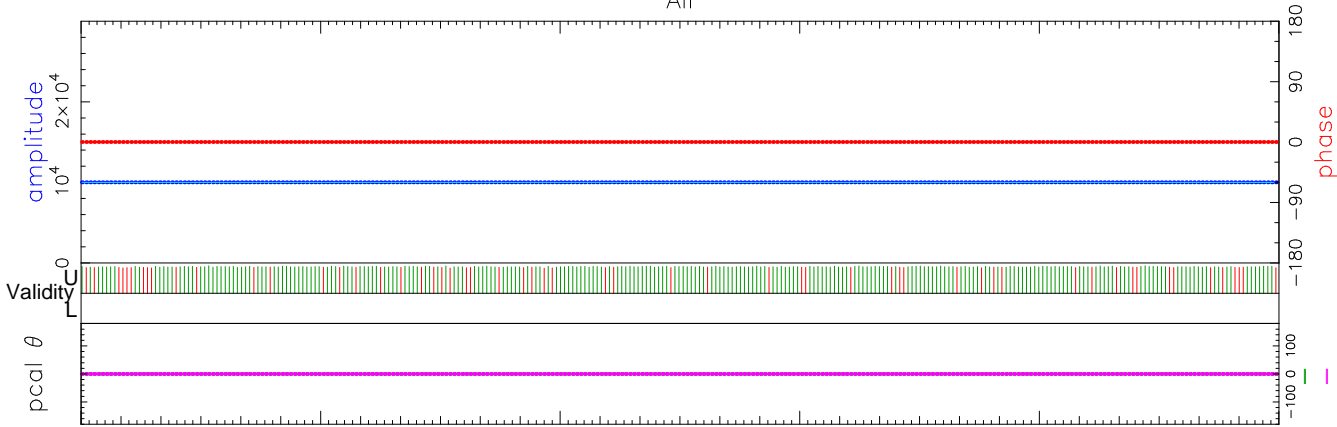
Fringe quality 9

SNR 116146.3
Int time 288.626
Amp 9999.993
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
0.2 Phase
10000.0 Ampl.
513.0 Sbd box
U/L 586/0 APs used
| 1000 PC freqs
| 1000 PC freqs
|:| 0:0 PC phase
|:| 0:0 Mani PC
| 1000 PC amp
| 1000
| W06UR Chan ids
| W06UR Chan ids

Group delay (usec)(sbd) 4.40610644518E-06 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -7.19428E-06 +/- 1.5E-07
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-07
Phase delay (usec) 6.68147975660E-09 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 6.68148E-09 +/- 3.2E-11
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 1.8E-13
Total phase (deg) -0.1 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.1 +/- 0.0

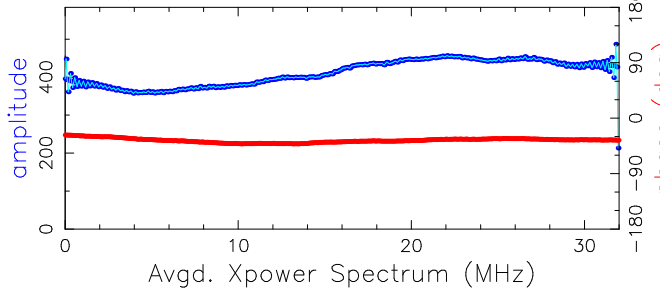
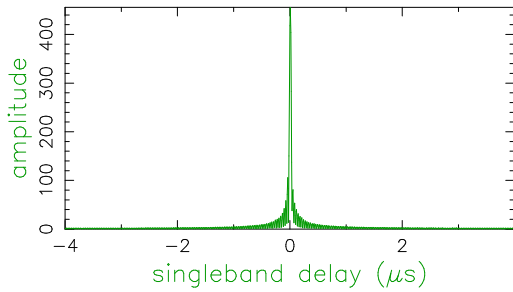
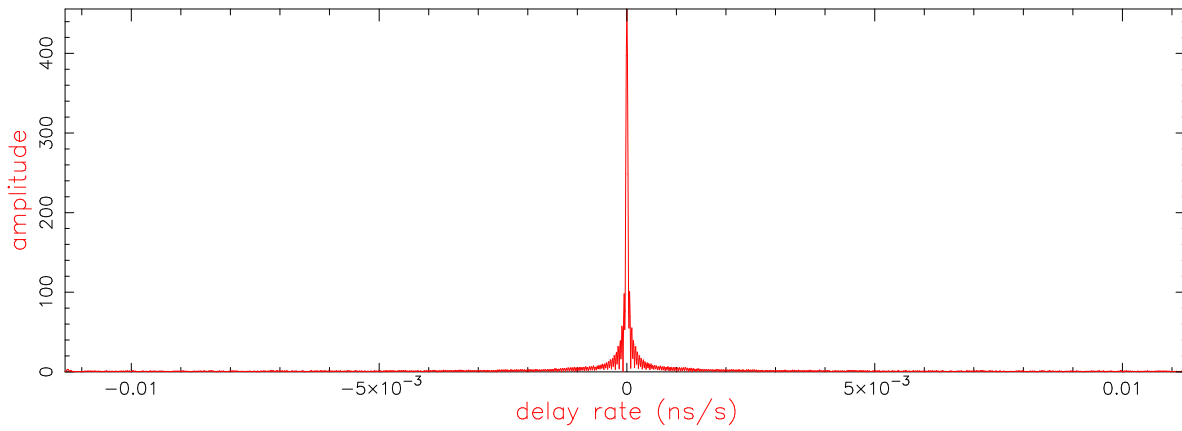
RMS Theor. Amplitude 9999.993 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X8) 9999.993 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.993 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 91.3 el 30.4 pa -57.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//II..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//II.W.172.0QR3WR

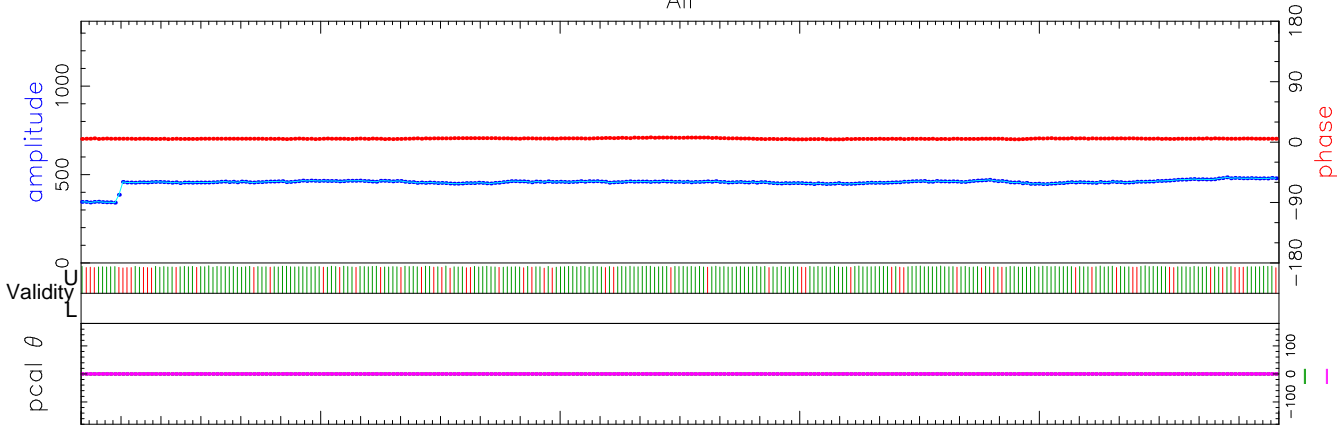
Fringe quality 9

SNR 5294.0
Int time 288.621
Amp 455.811
Phase -160.0
PFD 0.0e+00
Delays (us)
SBD 0.007166
MBD -0.000005
Fringe rate (Hz)
0.000024
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
5.2 Phase
455.5 Ampl.
513.9 Sbd box
U/L 586/0 APs used
| 1000 PC freqs
| 1000 PC freqs
|:| 0:0 PC phase
|:| 0:0 Mani PC
| 1000 PC amp
| 1000
| W06UL Chan ids
| W06UR Chan ids

Group delay (usec)(sbd)	7.16418950397E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.85138E-06	+/-	3.3E-06
Sband delay (usec)	7.16600000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	7.16600E-03	+/-	3.3E-06
Phase delay (usec)	1.66872787370E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.66873E-07	+/-	7.0E-10
Delay rate (us/s)	2.77046029257E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	2.77046E-10	+/-	4.0E-12
Total phase (deg)	-160.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-160.0	+/-	0.0

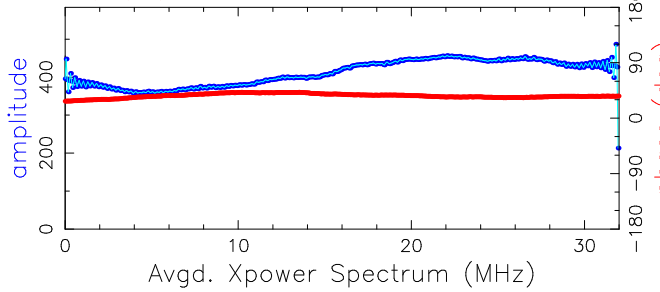
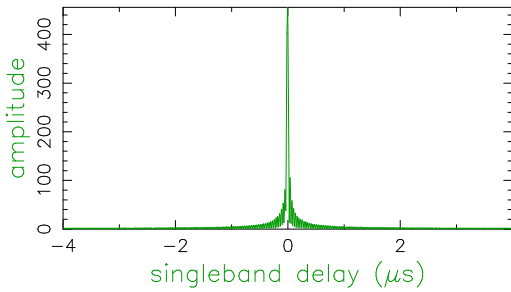
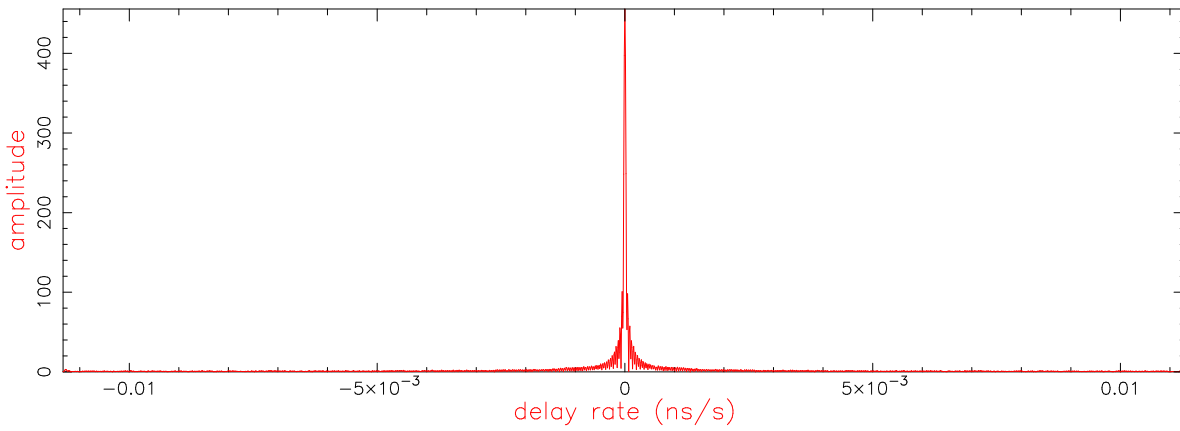
ph/seg (deg)	0.6	Theor.	0.2	Amplitude	455.811 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	4.7		0.3	Search (2048X8)	455.458	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1		0.0	Inc. seg. avg.	455.517	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	455.496	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

l: az 91.3 el 30.4 pa -57.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//II..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//II.W.185.0QR3WR

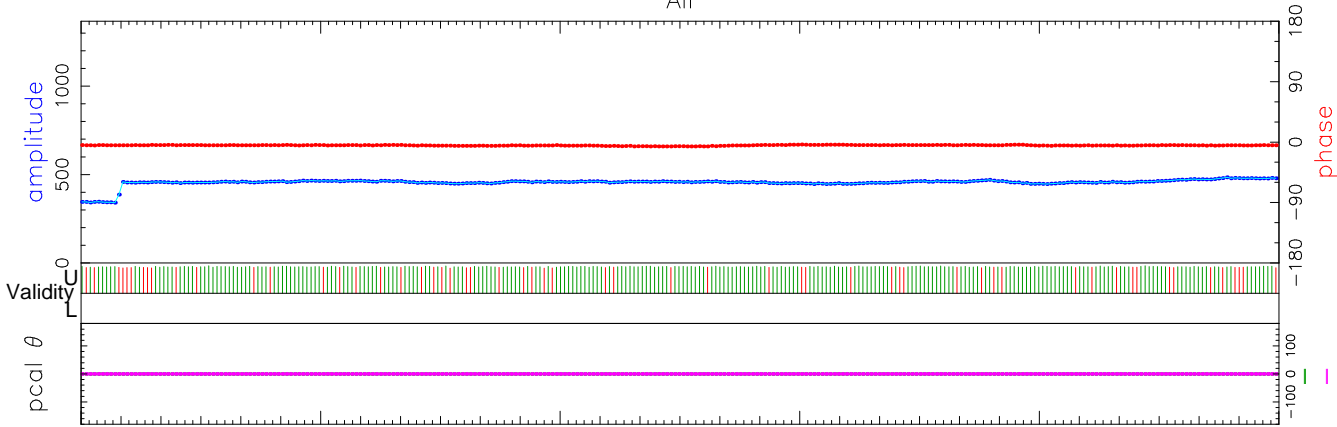
Fringe quality 9

SNR 5294.0
Int time 288.626
Amp 455.801
Phase 160.1
PFD 0.0e+00
Delays (us)
SBD -0.007166
MBD -0.000007
Fringe rate (Hz)
-0.000024
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

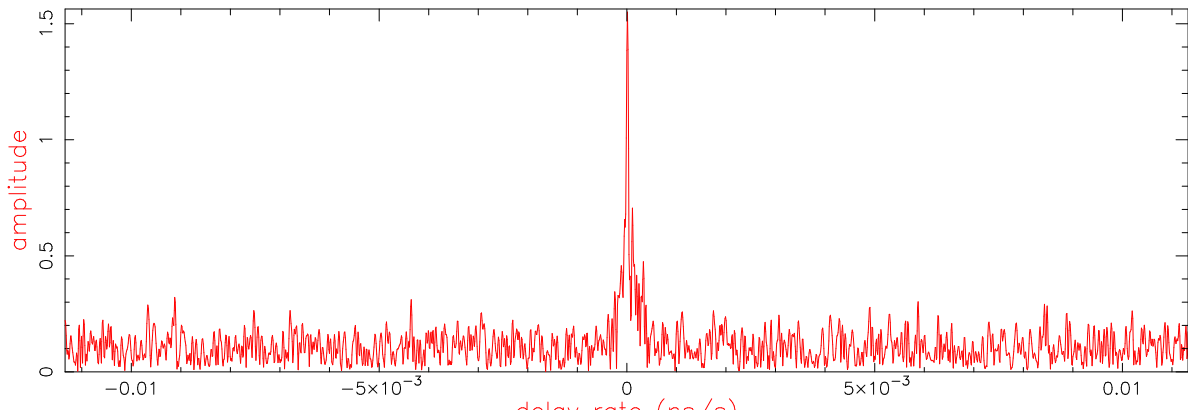


86204.00 Freq (MHz)
-4.8 Phase
455.5 Ampl.
512.1 Sbd box
U/L 586/0 APs used
| 1000 PC freqs
| 1000 PC freqs
|:| 0:0 PC phase
|:| 0:0 Mani PC
| 1000 PC amp
| 1000
| W06UR Chan ids
| W06UL Chan ids

Group delay (usec)(sbd) -7.16421623127E-03 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -6.77574E-06 +/- 3.3E-06
Sband delay (usec) -7.16600000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -7.16600E-03 +/- 3.3E-06
Phase delay (usec) -1.56074443301E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.56074E-07 +/- 7.0E-10
Delay rate (us/s) -2.77046029257E-10 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) -2.77046E-10 +/- 4.0E-12
Total phase (deg) 160.1 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 160.1 +/- 0.0

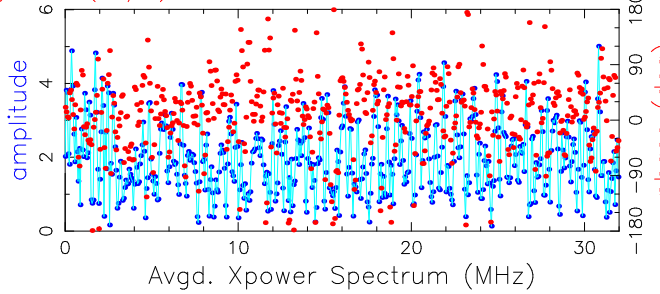
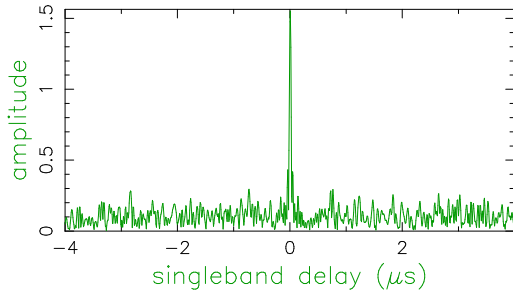
RMS Theor. Amplitude 455.801 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.6 0.2 Search (2048X8) 455.449 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 4.7 0.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 455.508 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.1 0.0 Inc. frq. avg. 455.487 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 91.3 el 30.4 pa -57.6 l: az 91.3 el 30.4 pa -57.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//II..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//II.W.195.0QR3WR



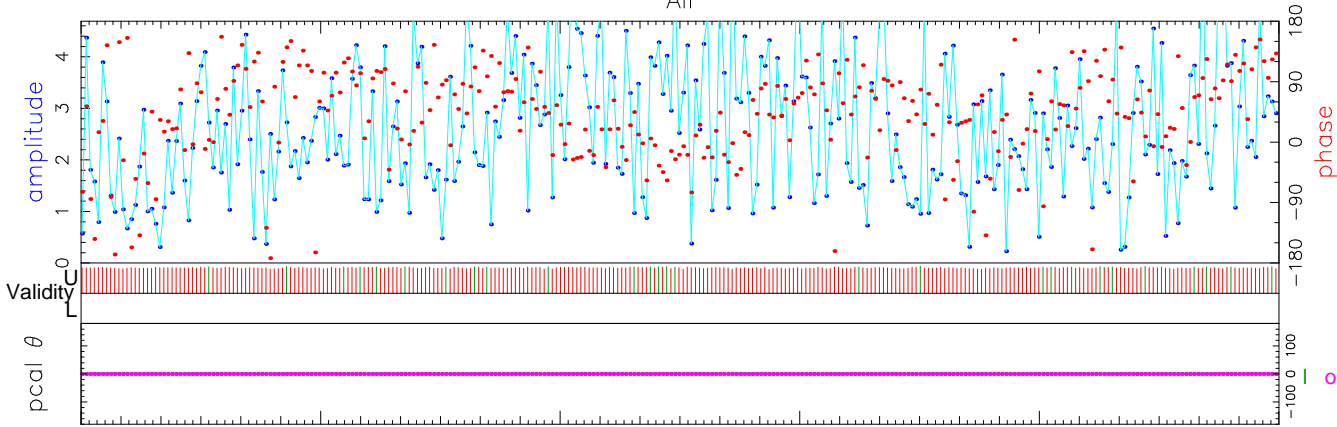
Fringe quality 9

SNR 17.8
 Int time 277.066
 Amp 1.564
 Phase -78.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.005648
 MBD -0.000005
 Fringe rate (Hz)
 0.000580
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174206
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 51.5
 1.6
 513.7
 U/L 586/0
 l 1000
 o 1000
 l:o 0:0
 l:o 0:0
 l 1000
 o 1000
 l W06UL
 o W06UL

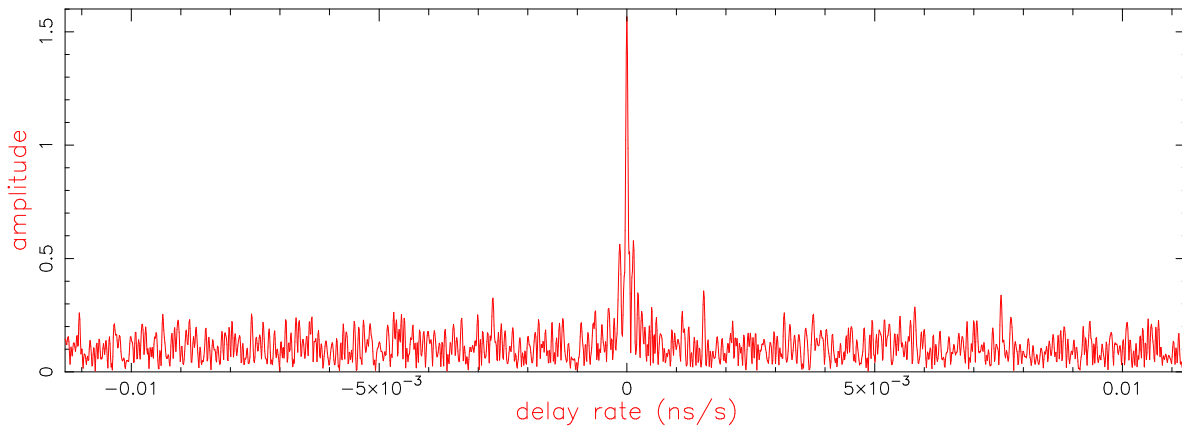
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.19151857028E+03	Apriori delay (usec)	3.19151292607E+03	Resid mbdelay (usec)	-5.17339E-06	+/- 9.7E-04
Sband delay (usec)	3.19151857357E+03	Apriori clock (usec)	-1.6134058E+01	Resid sbdelay (usec)	5.64750E-03	+/- 9.7E-04
Phase delay (usec)	3.19151292773E+03	Apriori clockrate (us/s)	-5.9655997E-07	Resid phdelay (usec)	1.66033E-06	+/- 2.1E-07
Delay rate (us/s)	-6.88457070090E-02	Apriori rate (us/s)	-6.88457137403E-02	Resid rate (us/s)	6.73130E-09	+/- 1.2E-09
Total phase (deg)	83.8	Apriori accel (us/s/s)	-1.76985793138E-05	Resid phase (deg)	-78.7	+/- 6.4

ph/seg (deg)	63.2	Theor.	55.1	Amplitude	1.564 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	110.5	Search (2048X8)	1.528	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	Inc. seg. avg.	1.806	Sample rate(MSamp/s): 64		Data rate(Mb/s): 128	nlags: 512	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.8	Inc. frq. avg.	1.548				t_cohere infinite	ion window (TEC)	0.00	0.00

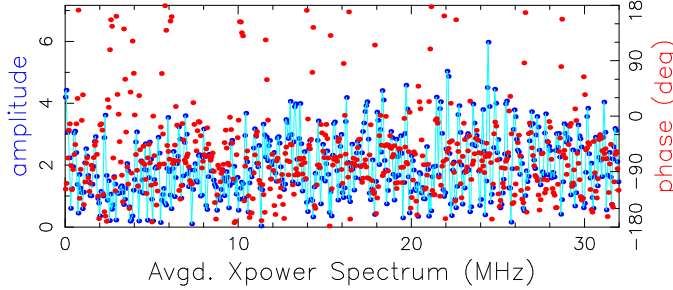
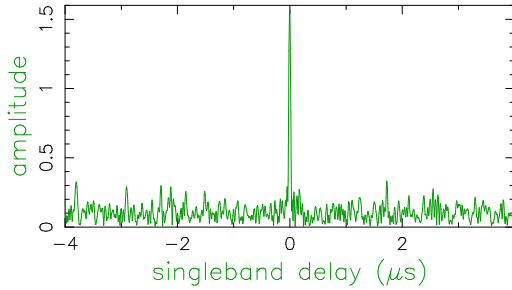
l: az 91.3 el 30.4 pa -57.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 388.191 -580.225 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lo.W.157.0QR3WR



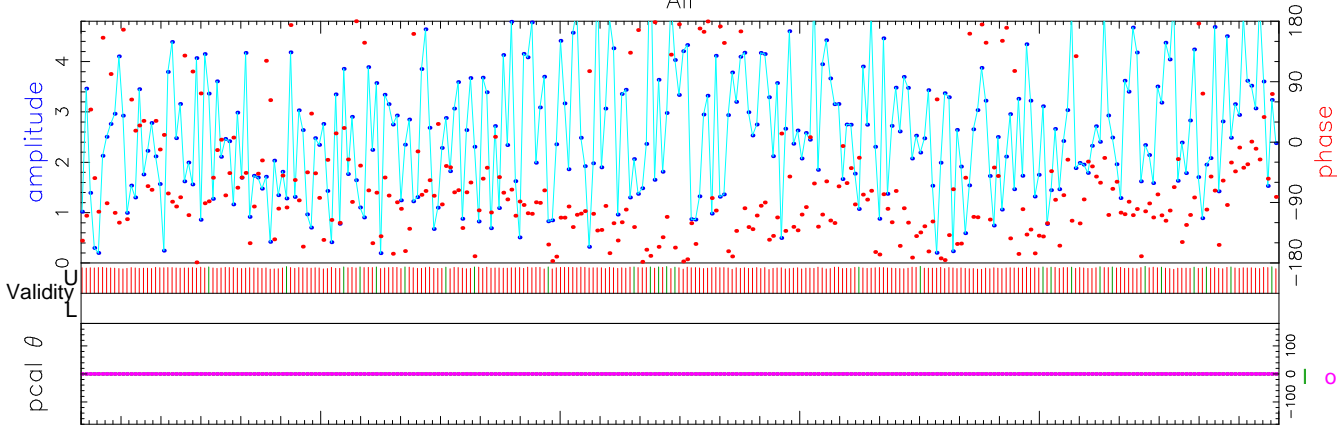
Fringe quality 9

SNR 18.2
 Int time 277.077
 Amp 1.601
 Phase -14.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.003765
 MBD -0.000004
 Fringe rate (Hz)
 0.000389
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174209
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 -101.4
 1.6
 512.5
 U/L 586/0
 l 1000
 o 1000
 l:o 0:0
 l:o 0:0
 l 1000
 o 1000
 l W06UR
 o W06UR

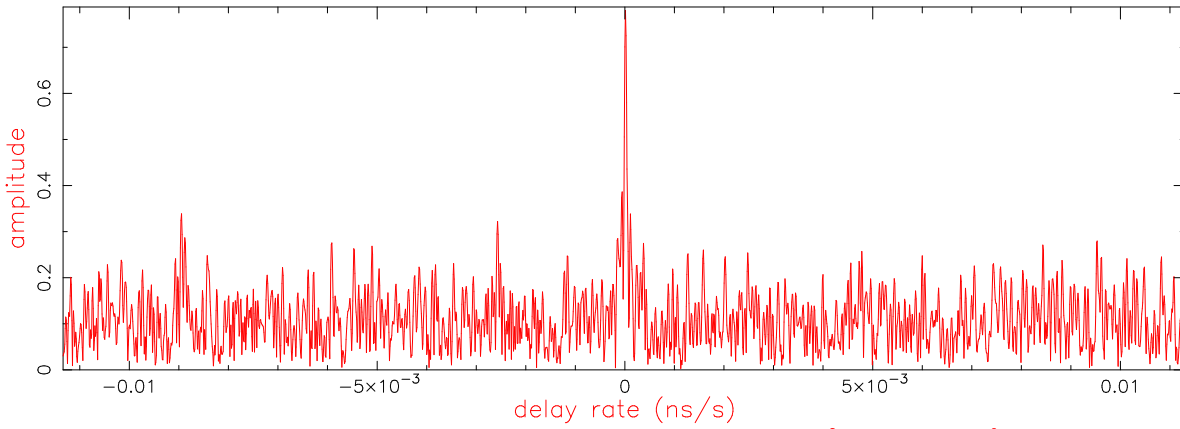
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.19150916308E+03	Apriori delay (usec)	3.19151292607E+03	Resid mbdelay (usec)	-4.46253E-06	+/- 9.5E-04
Sband delay (usec)	3.19150916107E+03	Apriori clock (usec)	-1.6134058E+01	Resid sbdelay (usec)	-3.76500E-03	+/- 9.5E-04
Phase delay (usec)	3.19151292280E+03	Apriori clockrate (us/s)	-5.9655997E-07	Resid phdelay (usec)	-3.26959E-06	+/- 2.0E-07
Delay rate (us/s)	-6.88457092204E-02	Apriori rate (us/s)	-6.88457137403E-02	Resid rate (us/s)	4.51989E-09	+/- 1.2E-09
Total phase (deg)	147.7	Apriori accel (us/s/s)	-1.76985793138E-05	Resid phase (deg)	-14.8	+/- 6.3

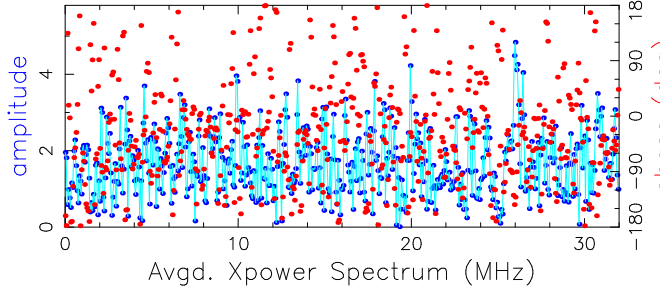
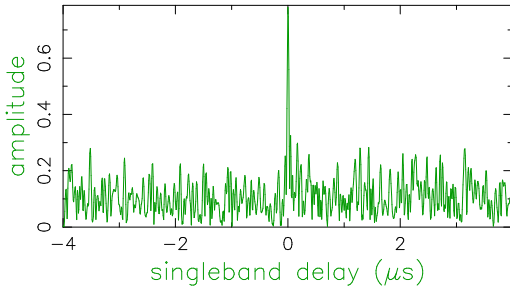
ph/seg (deg)	64.4	Theor.	53.8	Amplitude	1.601 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	98.9		94.0	Search (2048X8)	1.539	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		3.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	2.2		5.5	Inc. seg. avg.	1.790	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	1.564	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

l: az 91.3 el 30.4 pa -57.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 388.191 -580.225 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lo.W.180.0QR3WR

Fringe quality 9

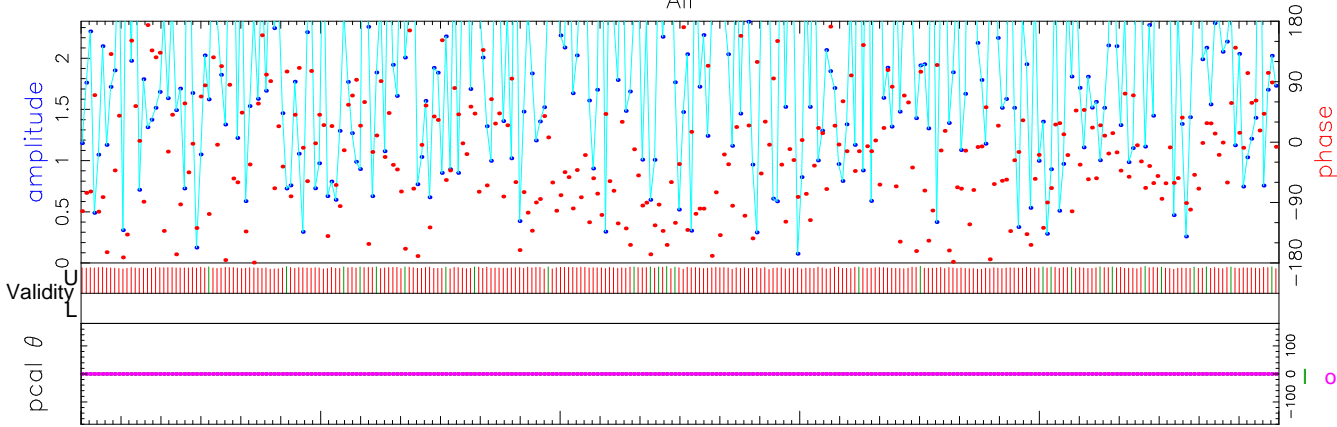


SNR 9.0
 Int time 277.068
 Amp 0.787
 Phase -84.8
 PFD 6.2e-11
 Delays (us)
 SBD 0.002348
 MBD -0.000005
 Fringe rate (Hz)
 0.000683
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174210
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



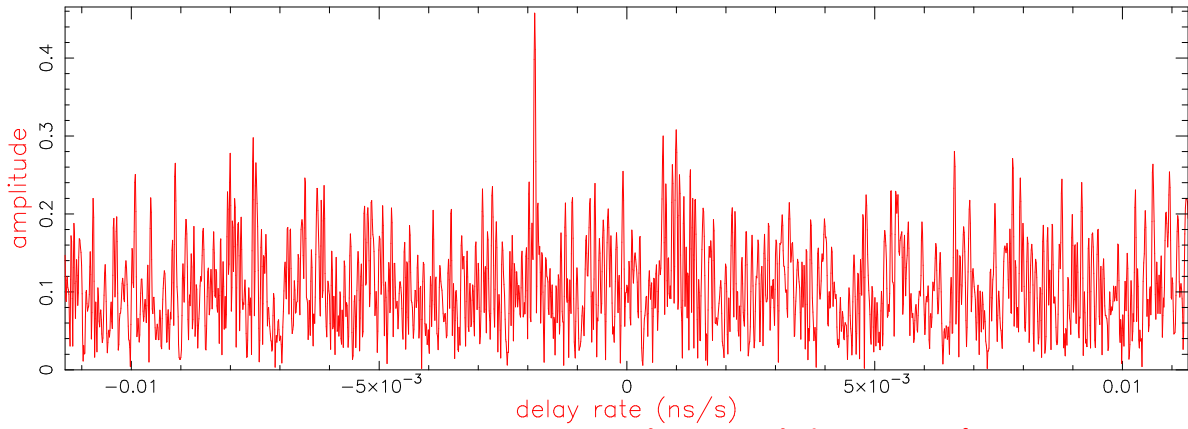
86204.00
 -30.6
 0.8
 513.3
 U/L 586/0
 | 1000
 o 1000
 l:o 0:0
 l:o 0:0
 | 1000
 o 1000
 | W06UL
 o W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

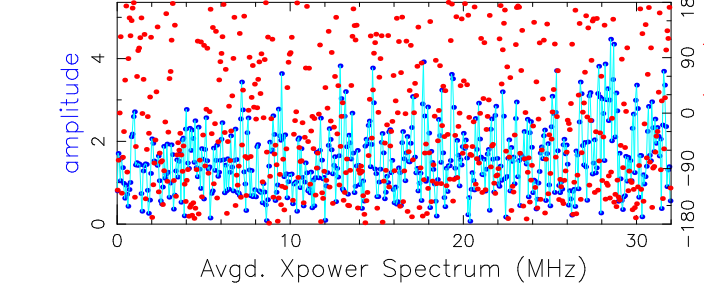
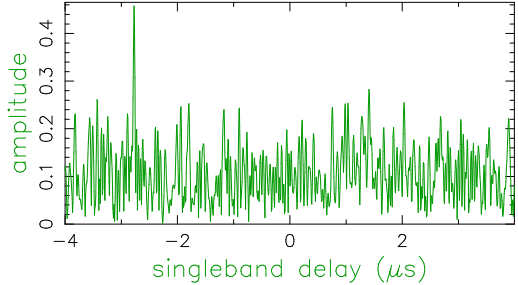
Group delay (usec)(sbd)	3.19151527579E+03	Apriori delay (usec)	3.19151292607E+03	Resid mbdelay (usec)	-5.15539E-06	+/- 1.9E-03
Sband delay (usec)	3.19151527407E+03	Apriori clock (usec)	-1.6134058E+01	Resid sbdelay (usec)	2.34800E-03	+/- 1.9E-03
Phase delay (usec)	3.19151292508E+03	Apriori clockrate (us/s)	-5.9655997E-07	Resid phdelay (usec)	-9.86007E-07	+/- 4.1E-07
Delay rate (us/s)	-6.88457058129E-02	Apriori rate (us/s)	-6.88457137403E-02	Resid rate (us/s)	7.92734E-09	+/- 2.4E-09
Total phase (deg)	77.6	Apriori accel (us/s/s)	-1.76985793138E-05	Resid phase (deg)	-84.8	+/- 12.8

ph/seg (deg)	82.3	Theor.	109.5	Amplitude	0.787 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	215.7	Search (2048X8)	0.777	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.724	Inc. frq. avg.	0.775	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.0					Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

l: az 91.3 el 30.4 pa -57.6 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 388.191 -580.225 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lo.W.190.0QR3WR

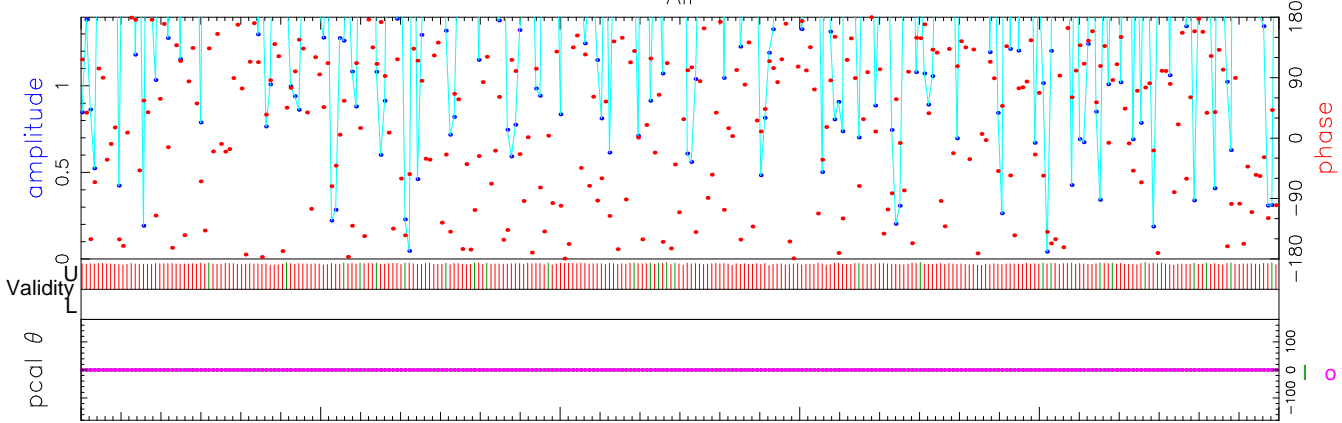


Fringe quality 0
SNR 5.2
Int time 277.074
Amp 0.466
Phase 265.8
PFD 1.0e+00
Delays (us)
SBD -2.771646
MBD -0.000006
Fringe rate (Hz)
-0.159902
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
127.0
0.5
158.2
U/L 586/0
l 1000
o 1000
l:o 0:0
l:o 0:0
l 1000
o 1000
l W06UR
o W06UL

Validity
pcal theta

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp

Chan ids
Chan ids

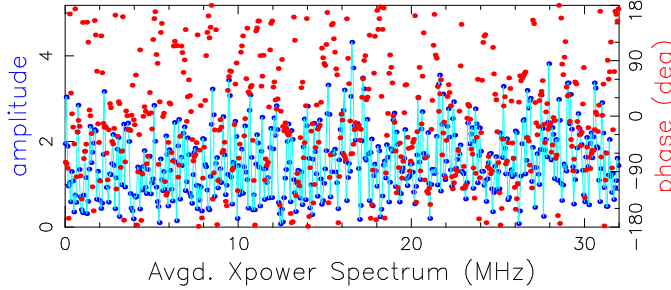
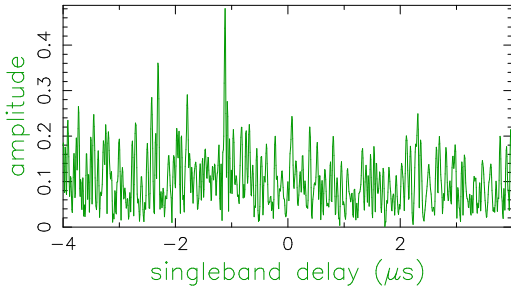
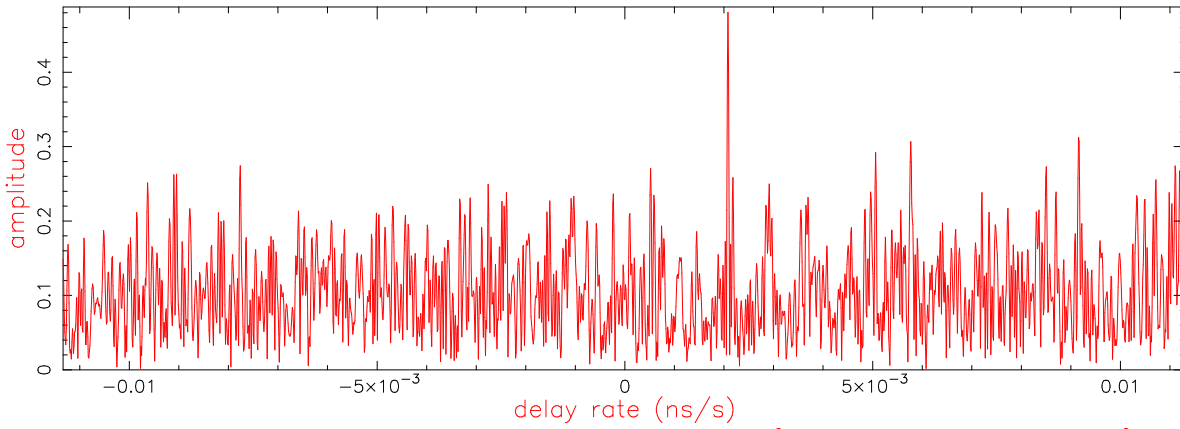
Group delay (usec)(sbd)	3.18874127402E+03	Apriori delay (usec)	3.19151292607E+03	Resid mbdelay (usec)	-5.71862E-06	+/-	3.3E-03
Sband delay (usec)	3.18874127957E+03	Apriori clock (usec)	-1.6134058E+01	Resid sbdelay (usec)	-2.77165E+00	+/-	3.3E-03
Phase delay (usec)	3.19151293016E+03	Apriori clockrate (us/s)	-5.9655997E-07	Resid phdelay (usec)	4.09659E-06	+/-	7.1E-07
Delay rate (us/s)	-6.88475700457E-02	Apriori rate (us/s)	-6.88457137403E-02	Resid rate (us/s)	-1.85631E-06	+/-	4.1E-09
Total phase (deg)	68.2	Apriori accel (us/s/s)	-1.76985793138E-05	Resid phase (deg)	265.8	+/-	21.9

ph/seg (deg)	92.5	Theor.	187.2	Amplitude	0.466 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	374.8	Search (2048X8)	0.445	Search (2048X8)	0.445	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.6	Inc. seg. avg.	0.297	Inc. seg. avg.	0.297	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.455	Inc. frq. avg.	0.455	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

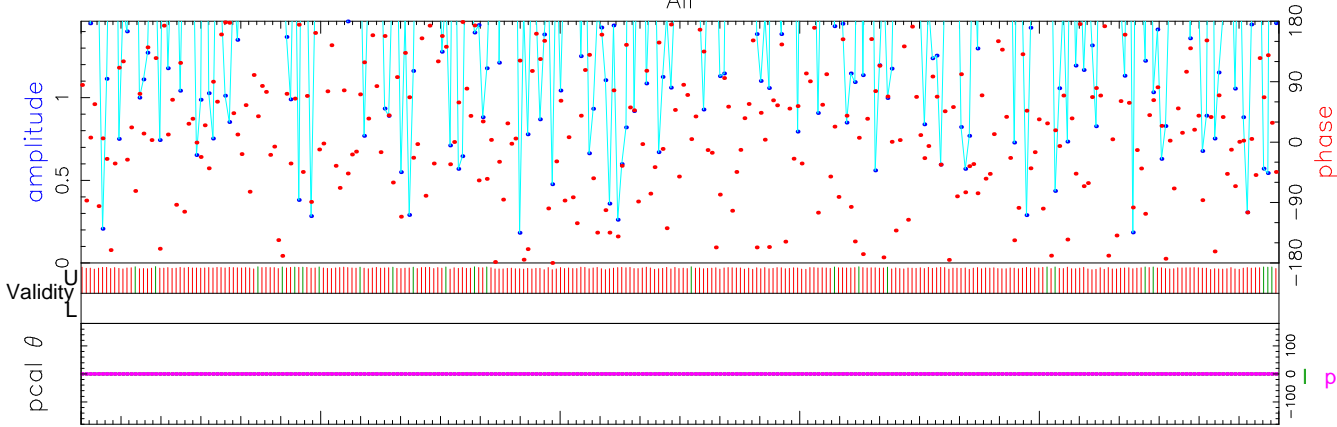
Fringe quality 0

SNR 5.5
Int time 275.432
Amp 0.488
Phase 218.8
PFD 1.0e+00
Delays (us)
SBD -1.117982
MBD 0.000005
Fringe rate (Hz)
0.179338
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174206
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



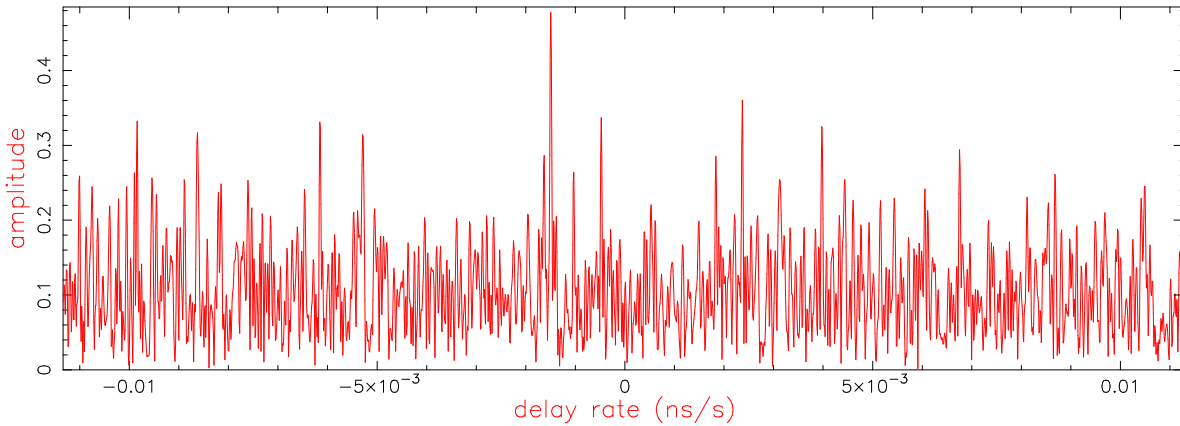
86204.00
20.4
0.5
369.9
U/L 586/0
l 1000
p 1000
l:p 0:0
l:p 0:0
l 1000
p 1000
l W06UL
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.65202424997E+02	Apriori delay (usec)	4.66320407665E+02	Resid mbdelay (usec)	4.89555E-06	+/-	3.2E-03
Sband delay (usec)	4.65202426165E+02	Apriori clock (usec)	-1.8113422E+01	Resid sbdelay (usec)	-1.11798E+00	+/-	3.2E-03
Phase delay (usec)	4.66320408322E+02	Apriori clockrate (us/s)	-1.2200001E-07	Resid phdelay (usec)	6.56632E-07	+/-	6.8E-07
Delay rate (us/s)	-3.72942018636E-02	Apriori rate (us/s)	-3.72962838050E-02	Resid rate (us/s)	2.08194E-06	+/-	3.9E-09
Total phase (deg)	188.7	Apriori accel (us/s/s)	-1.91239969545E-06	Resid phase (deg)	218.8	+/-	21.0

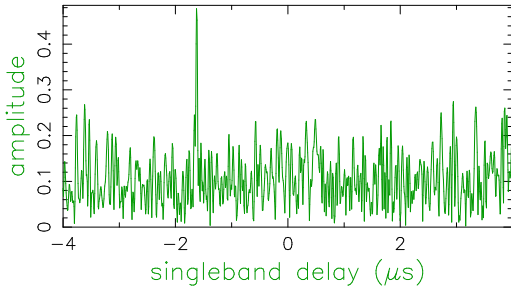
ph/seg (deg)	RMS 91.7	Theor. 179.7	Amplitude 0.488 +/- 0.089	Search (2048X8)	0.476	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	335.3	313.7	Interp. 0.000	Inc. seg. avg.	0.310	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
ph/frq (deg)	0.0	10.5	Inc. frq. avg.	0.479	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.1	18.3			Sample rate(MSamp/s): 64		dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC) 0.00 0.00

l: az 91.3 el 30.4 pa -57.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 220.131 133.973 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lp.W.156.0QR3WR

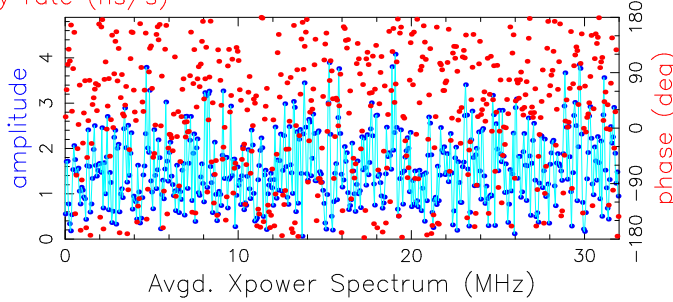


Fringe quality 0

SNR 5.5
Int time 275.434
Amp 0.485
Phase 45.3
PFD 1.0e+00
Delays (us)
SBD -1.622902
MBD -0.000004
Fringe rate (Hz)
-0.128476
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

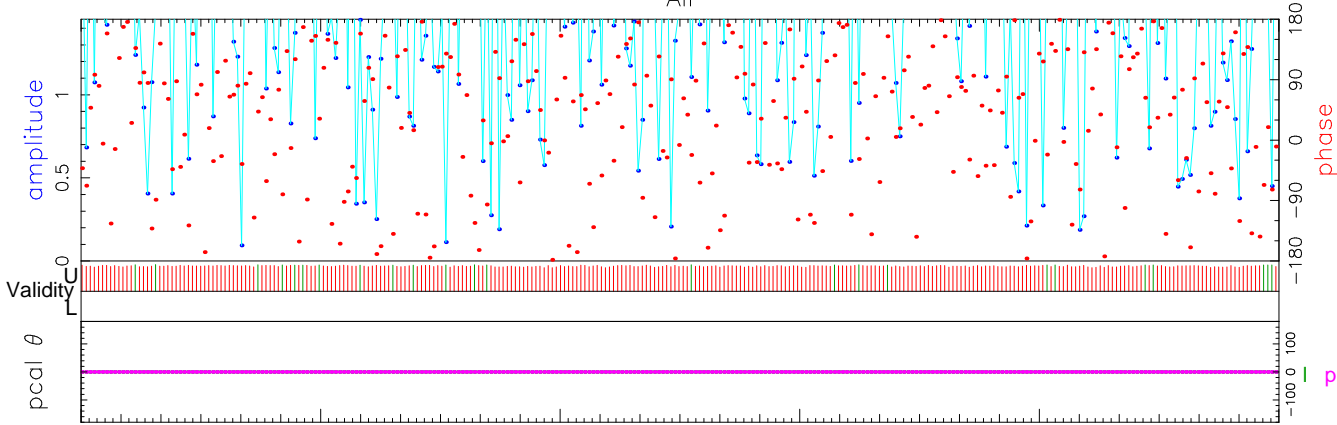


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174207
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
93.8
0.5
305.3
U/L 586/0
l 1000
p 1000
l:p 0:0
l:p 0:0
l 1000
p 1000
l W06UR
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.64697508672E+02	Apriori delay (usec)	4.66320407665E+02	Resid mbdelay (usec)	-4.46383E-06	+/-	3.2E-03
Sband delay (usec)	4.64697506165E+02	Apriori clock (usec)	-1.8113422E+01	Resid sbdelay (usec)	-1.62290E+00	+/-	3.2E-03
Phase delay (usec)	4.66320410692E+02	Apriori clockrate (us/s)	-1.2200001E-07	Resid phdelay (usec)	3.02607E-06	+/-	6.8E-07
Delay rate (us/s)	-3.72977752826E-02	Apriori rate (us/s)	-3.72962838050E-02	Resid rate (us/s)	-1.49148E-06	+/-	3.9E-09
Total phase (deg)	15.2	Apriori accel (us/s/s)	-1.91239969545E-06	Resid phase (deg)	45.3	+/-	21.0

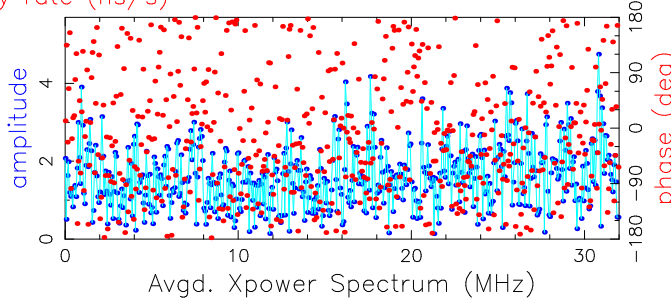
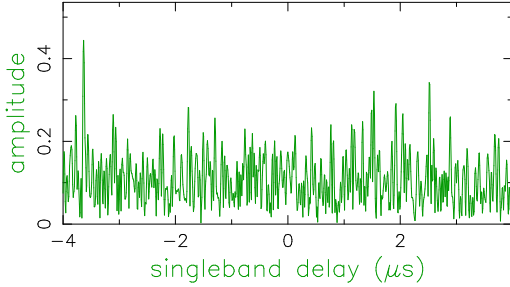
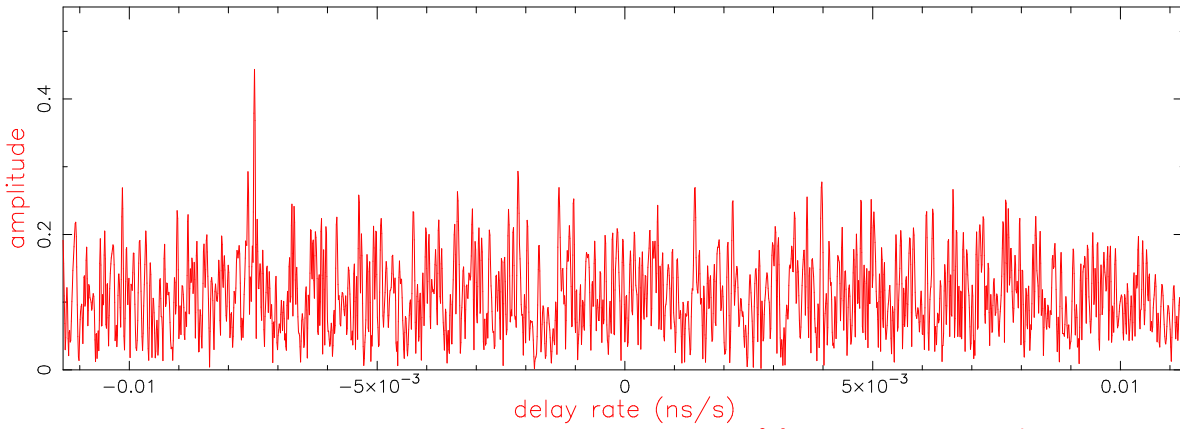
ph/seg (deg)	RMS 90.6	Theor. 179.5	Amplitude 0.485 +/- 0.089	Search (2048X8) 0.468	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	352.1	313.3	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	10.5	Inc. seg. avg. 0.315	0.473	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.8	18.3	Inc. frq. avg. 0.473		Sample rate(MSamp/s): 64	ion window (TEC)	0.00	0.00	

l: az 91.3 el 30.4 pa -57.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 220.131 133.973 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lp.W.168.0QR3WR

Fringe quality 0

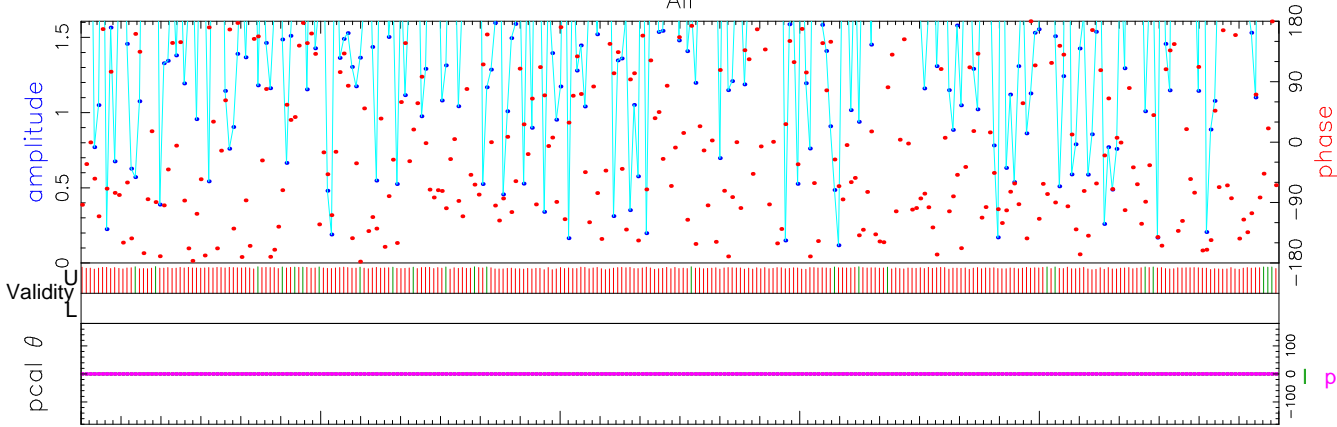
SNR 5.1
Int time 275.426
Amp 0.536
Phase 114.5
PFD 1.0e+00
Delays (us)
SBD -3.634290
MBD -0.000005
Fringe rate (Hz)
-0.642790
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



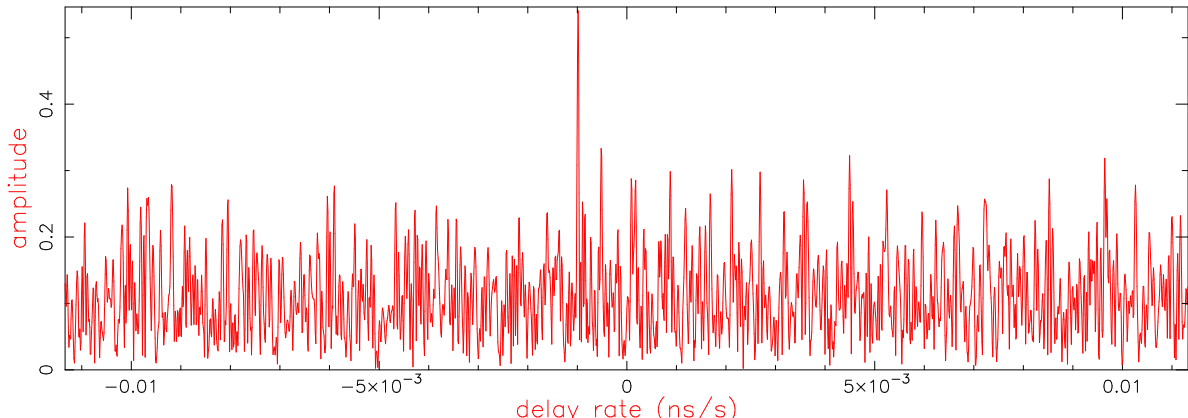
86204.00
-99.5
0.5
47.8
U/L 586/0
l 1000
p 1000
l:p 0:0
l:p 0:0
l 1000
p 1000
l W06UL
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

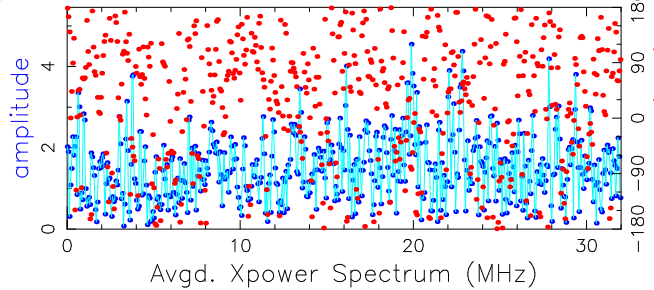
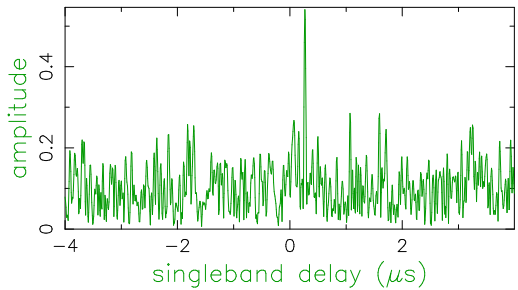
Group delay (usec)(sbd)	4.62686116542E+02	Apriori delay (usec)	4.66320407665E+02	Resid mbdelay (usec)	-5.01146E-06	+/-	3.4E-03
Sband delay (usec)	4.62686118165E+02	Apriori clock (usec)	-1.8113422E+01	Resid sbdelay (usec)	-3.63429E+00	+/-	3.4E-03
Phase delay (usec)	4.66320404458E+02	Apriori clockrate (us/s)	-1.2200001E-07	Resid phdelay (usec)	-3.20729E-06	+/-	7.3E-07
Delay rate (us/s)	-3.73037459555E-02	Apriori rate (us/s)	-3.72962838050E-02	Resid rate (us/s)	-7.46215E-06	+/-	4.2E-09
Total phase (deg)	84.4	Apriori accel (us/s/s)	-1.91239969545E-06	Resid phase (deg)	114.5	+/-	22.7

ph/seg (deg)	90.6	Theor.	194.0	Amplitude	0.536 +/- 0.106	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	388.5	Search (2048X8)	0.444	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.332	Inc. seg. avg.	0.332	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.3	Inc. frq. avg.	0.524	Inc. frq. avg.	0.524	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000

l: az 91.3 el 30.4 pa -57.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 220.131 133.973 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lp.W.177.0QR3WR



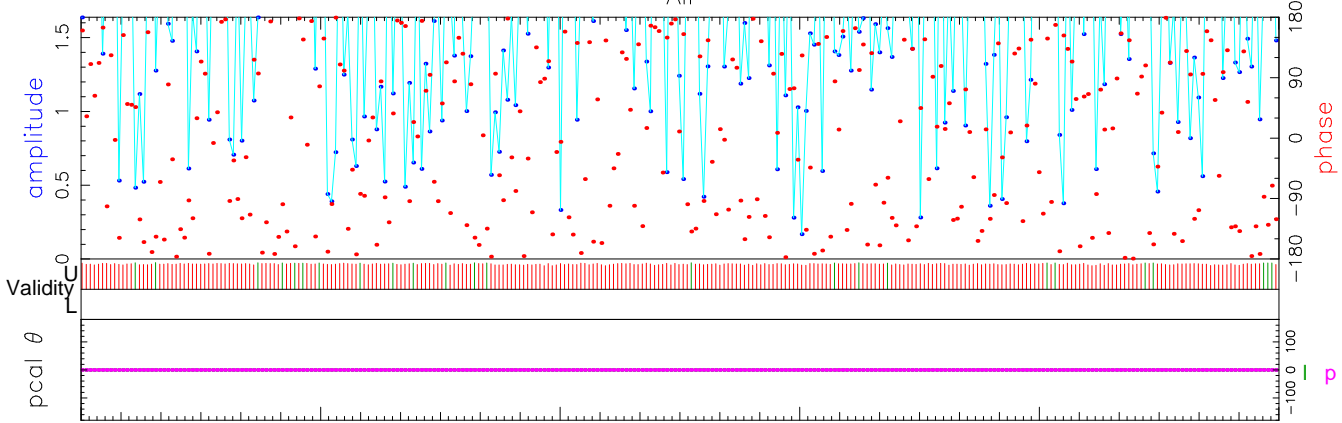
Fringe quality 0
SNR 6.2
Int time 275.439
Amp 0.546
Phase -227.4
PFD 8.2e-02
Delays (us)
SBD 0.267724
MBD -0.000007
Fringe rate (Hz)
-0.084522
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



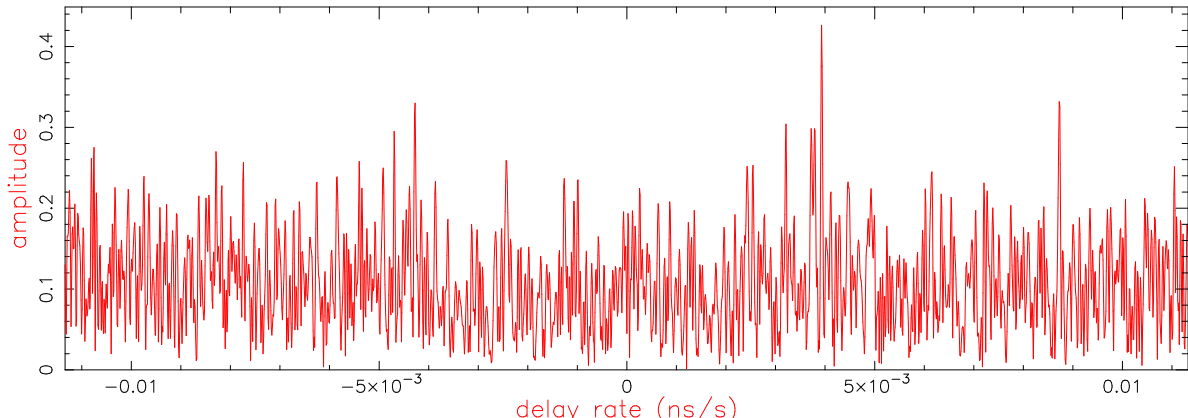
86204.00
-179.0
0.5
547.3
U/L 586/0
l 1000
p 1000
l:p 0:0
l:p 0:0
l 1000
p 1000
l W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

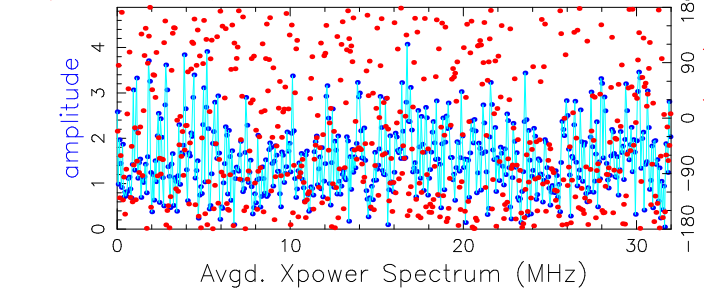
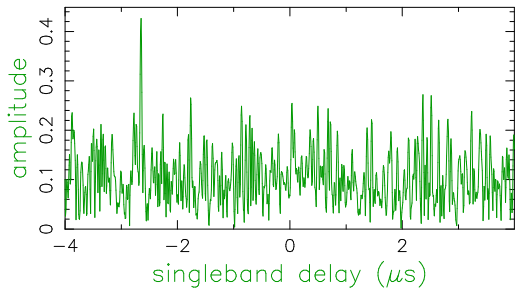
Group delay (usec)(sbd)	4.66588125835E+02	Apriori delay (usec)	4.66320407665E+02	Resid mbdelay (usec)	-7.22581E-06	+/-	2.8E-03
Sband delay (usec)	4.66588131165E+02	Apriori clock (usec)	-1.8113422E+01	Resid sbdelay (usec)	2.67724E-01	+/-	2.8E-03
Phase delay (usec)	4.66320401892E+02	Apriori clockrate (us/s)	-1.2200001E-07	Resid phdelay (usec)	-5.77385E-06	+/-	6.0E-07
Delay rate (us/s)	-3.72972650234E-02	Apriori rate (us/s)	-3.72962838050E-02	Resid rate (us/s)	-9.81218E-07	+/-	3.5E-09
Total phase (deg)	-257.6	Apriori accel (us/s/s)	-1.91239969545E-06	Resid phase (deg)	-227.4	+/-	18.5

ph/seg (deg)	88.6	Theor.	158.7	Amplitude	0.546 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	316.0	Search (2048X8)	0.527	Search (2048X8)	0.527	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. seg. avg.	0.407	Inc. seg. avg.	0.407	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.535	Inc. frq. avg.	0.535	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

l: az 91.3 el 30.4 pa -57.6 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 220.131 133.973 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//lp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//lp.W.193.0QR3WR

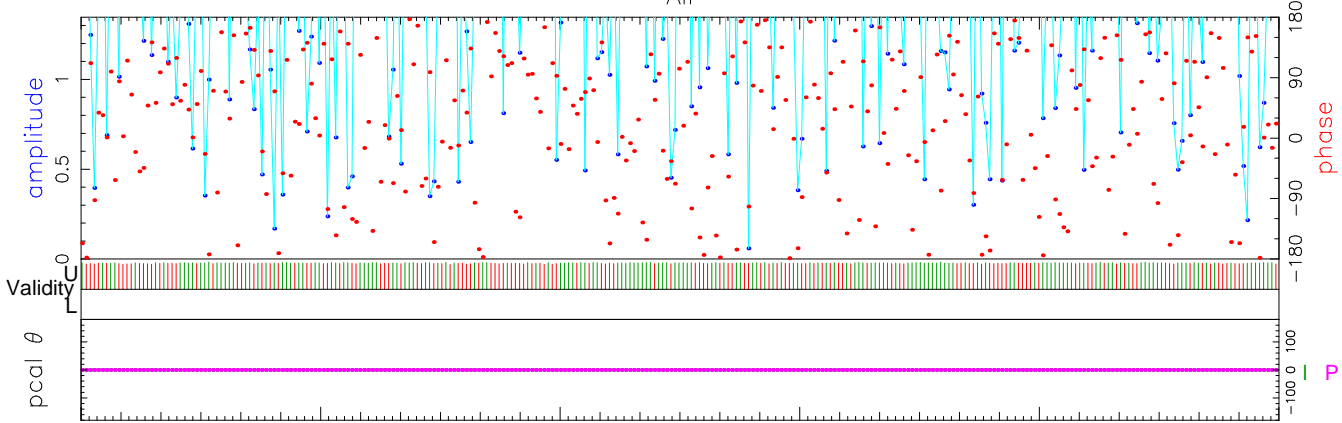


Fringe quality 0
SNR 4.9
Int time 285.200
Amp 0.449
Phase 293.6
PFD 1.0e+00
Delays (us)
SBD -2.649555
MBD 0.000006
Fringe rate (Hz) 0.338493
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
87.6 Phase
0.4 Ampl.
173.9 Sbd box
U/L 586/0 APs used
I 1000 PC freqs
P 0 PC freqs
I:P 0:0 PC phase
I:P 0:0 Mani PC
I 1000 PC amp
P 1000
I W06UL Chan ids
P W06UL Chan ids

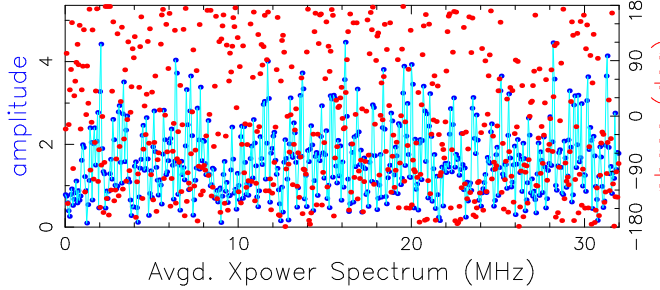
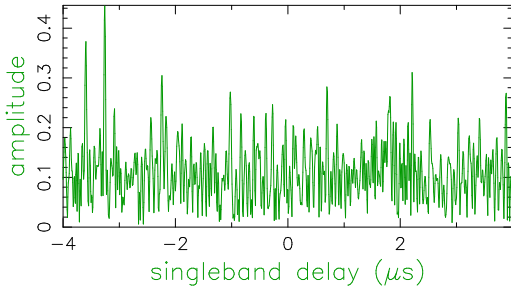
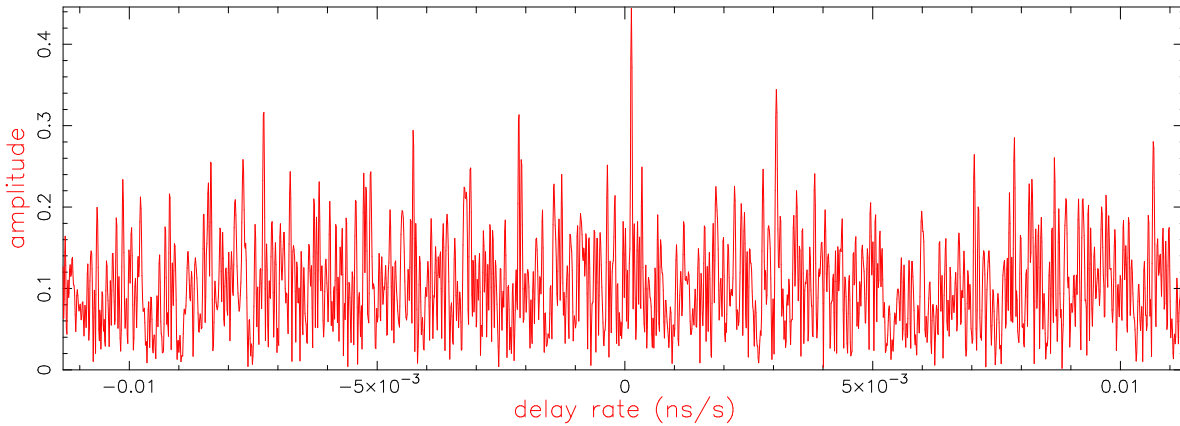
Group delay (usec)(sbd)	-5.11285780113E+03	Apriori delay (usec)	-5.11020824295E+03	Resid mbdelay (usec)	5.64967E-06	+/-	3.5E-03
Sband delay (usec)	-5.11285779845E+03	Apriori clock (usec)	1.3269104E+01	Resid sbdelay (usec)	-2.64956E+00	+/-	3.5E-03
Phase delay (usec)	-5.11020824013E+03	Apriori clockrate (us/s)	3.2000002E-07	Resid phdelay (usec)	2.82523E-06	+/-	7.5E-07
Delay rate (us/s)	1.84093218084E+00	Apriori rate (us/s)	1.84092825127E+00	Resid rate (us/s)	3.92957E-06	+/-	4.3E-09
Total phase (deg)	276.3	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	293.6	+/-	23.2

ph/seg (deg) 92.2 198.9 Search (2048X8) 0.425 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 395.2 347.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 11.6 Inc. seg. avg. 0.274 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 0.2 20.3 Inc. frq. avg. 0.439 Sample rate(MSamp/s): 64 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
I: az 91.3 el 30.4 pa -57.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IP.W.197.0QR3WR

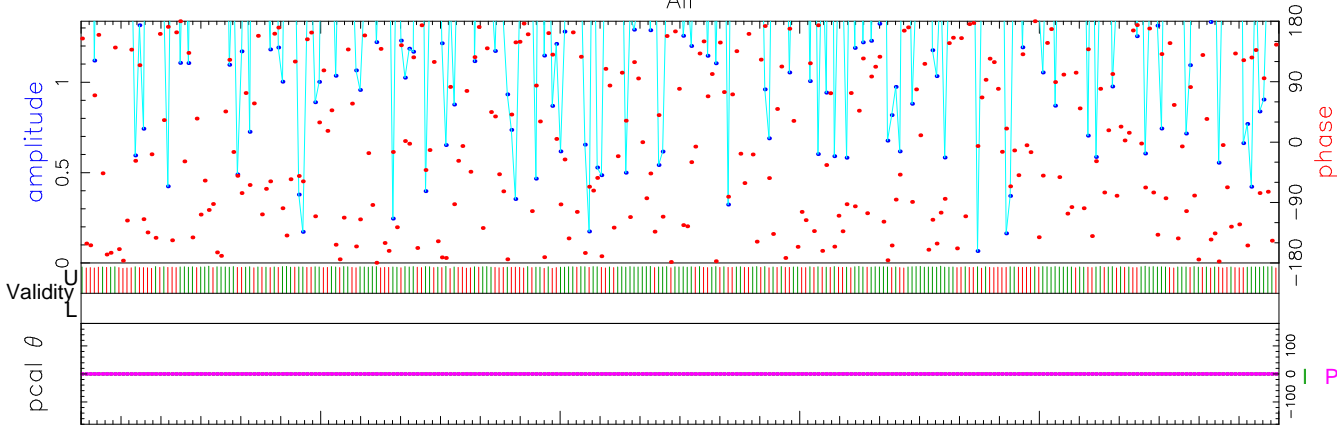
Fringe quality 0

SNR 5.1
Int time 285.208
Amp 0.446
Phase 38.6
PFD 1.0e+00
Delays (us)
SBD -3.259317
MBD 0.000007
Fringe rate (Hz)
0.011330
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-176.2
0.4
95.8
U/L 586/0
I 1000
P 0
I:P 0:0
I:P 0:0
I 1000
P 1000
I W06UR
P W06UR

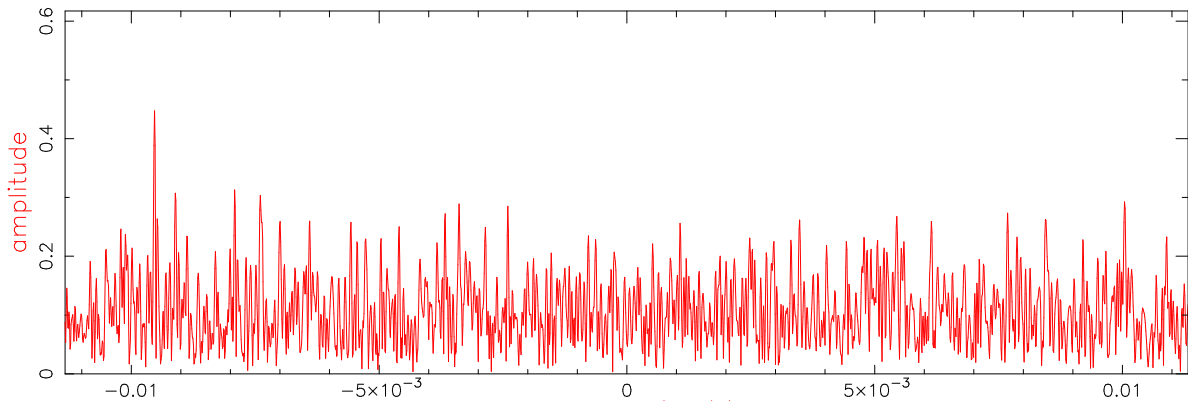
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.11346756268E+03	Apriori delay (usec)	-5.11020824295E+03	Resid mbdelay (usec)	6.98733E-06	+/-	3.3E-03
Sband delay (usec)	-5.11346755995E+03	Apriori clock (usec)	1.3269104E+01	Resid sbdelay (usec)	-3.25932E+00	+/-	3.3E-03
Phase delay (usec)	-5.11020824864E+03	Apriori clockrate (us/s)	3.2000002E-07	Resid phdelay (usec)	-5.68340E-06	+/-	7.2E-07
Delay rate (us/s)	1.84092838280E+00	Apriori rate (us/s)	1.84092825127E+00	Resid rate (us/s)	1.31533E-07	+/-	4.1E-09
Total phase (deg)	21.4	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	38.6	+/-	22.3

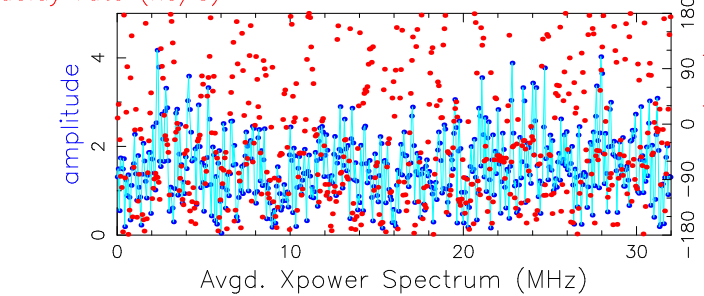
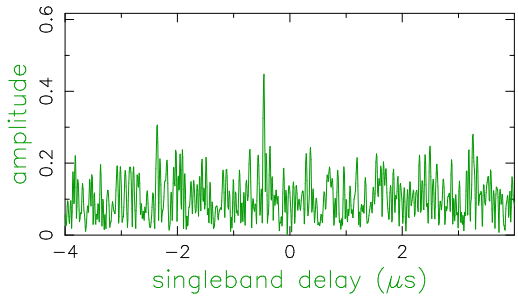
ph/seg (deg)	91.9	Theor.	190.5	Amplitude	0.446 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	379.1	Search (2048X8)	0.442	Search (2048X8)	0.442	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.4	Inc. seg. avg.	0.282	Inc. seg. avg.	0.282	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
		Inc. frq. avg.	0.436	Inc. frq. avg.	0.436	Data rate (Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

I: az 91.3 el 30.4 pa -57.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IP.W.210.0QR3WR



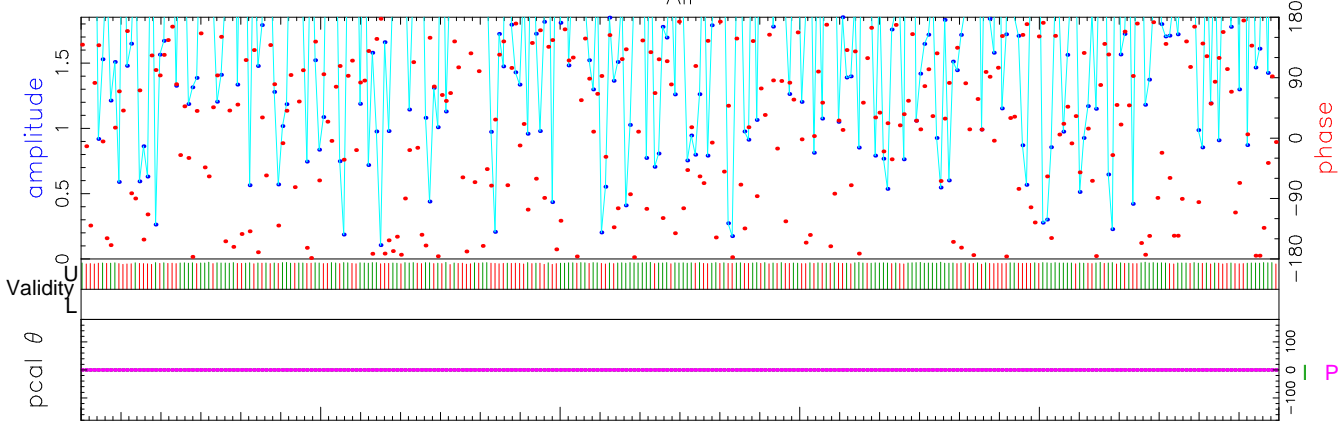
Fringe quality 0
SNR 5.2
Int time 285.200
Amp 0.617
Phase 2.5
PFD 1.0e+00
Delays (us)
SBD -0.463529
MBD -0.000007
Fringe rate (Hz)
-0.820071
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
123.1
0.6
453.7
U/L 586/0
I 1000
P 0
I:P 0:0
I:P 0:0
I 1000
P 1000
I W06UL
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.11067176677E+03	Apriori delay (usec)	-5.11020824295E+03	Resid mbdelay (usec)	-7.04524E-06	+/-	3.3E-03
Sband delay (usec)	-5.11067177245E+03	Apriori clock (usec)	1.3269104E+01	Resid sbdelay (usec)	-4.63529E-01	+/-	3.3E-03
Phase delay (usec)	-5.11020823898E+03	Apriori clockrate (us/s)	3.2000002E-07	Resid phdelay (usec)	3.96914E-06	+/-	7.1E-07
Delay rate (us/s)	1.84091873106E+00	Apriori rate (us/s)	1.84092825127E+00	Resid rate (us/s)	-9.52021E-06	+/-	4.1E-09
Total phase (deg)	345.3	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	2.5	+/-	21.9

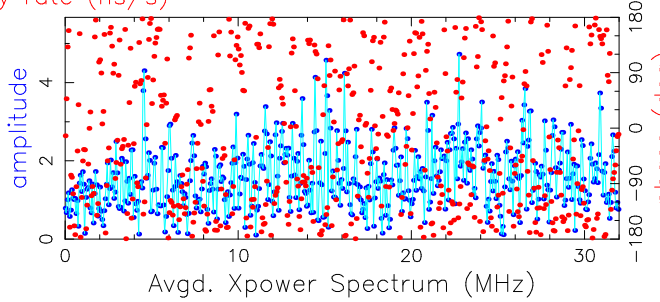
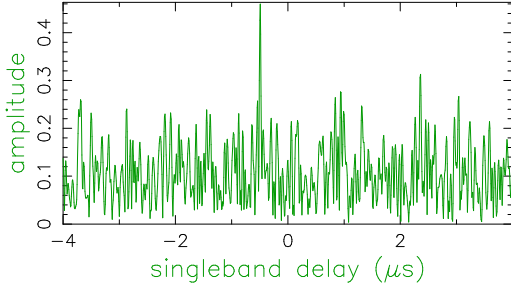
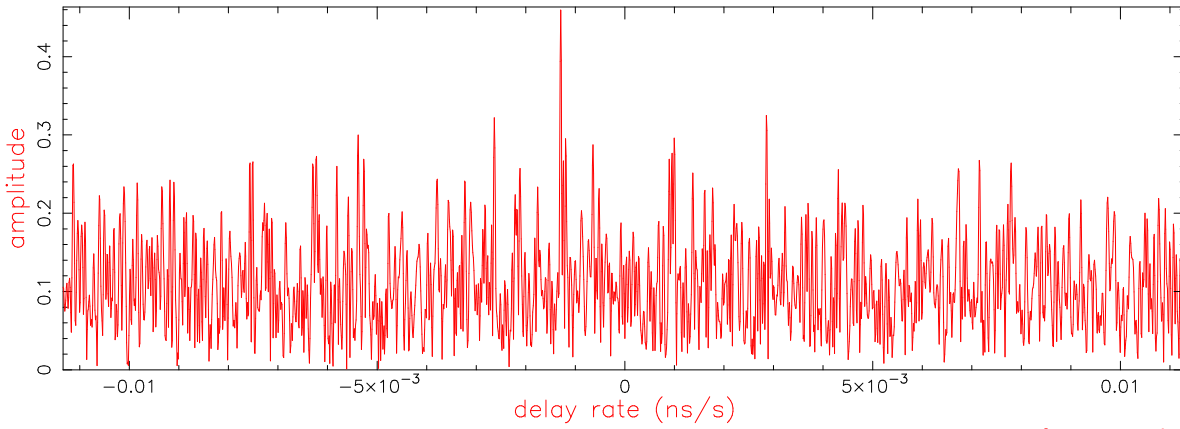
ph/seg (deg)	RMS 91.3	Theor. 187.4	Amplitude 0.617 +/- 0.118	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	386.1	327.1	Search (2048X8) 0.443	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	10.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	1.2	19.1	Inc. seg. avg. 0.408	Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011
			Inc. frq. avg. 0.599	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite

I: az 91.3 el 30.4 pa -57.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IP.W.230.0QR3WR

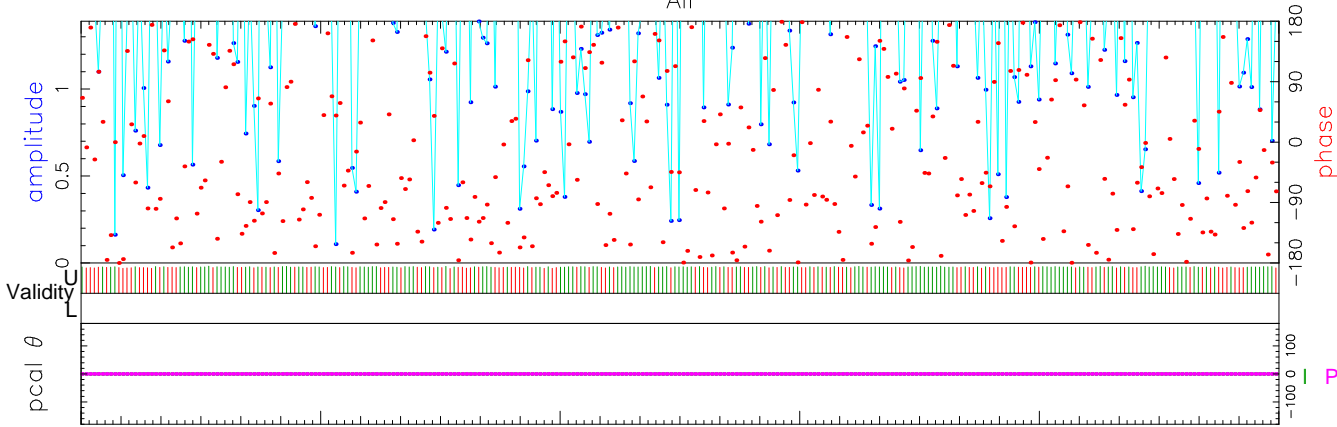
Fringe quality 0

SNR 5.3
Int time 285.208
Amp 0.463
Phase 86.0
PFD 1.0e+00
Delays (us)
SBD -0.493481
MBD -0.000005
Fringe rate (Hz)
-0.111236
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174215
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



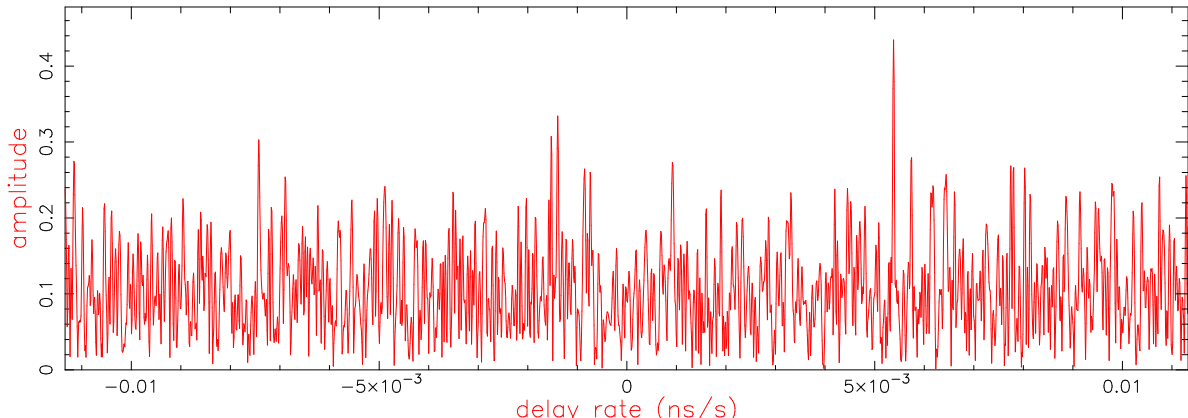
86204.00
-123.8
0.5
449.8
U/L 586/0
I 1000
P 0
I:P 0:0
I:P 0:0
I 1000
P 1000
I W06UR
P W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

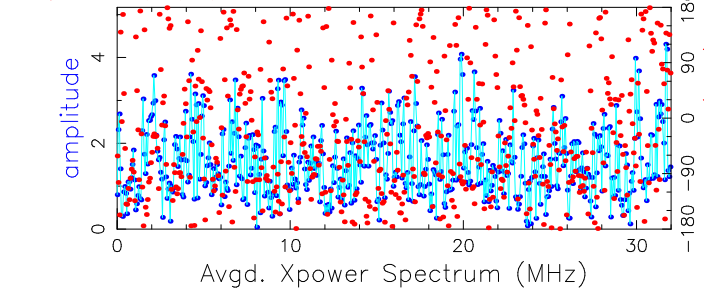
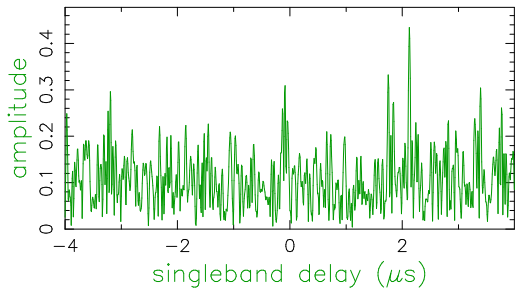
Group delay (usec)(sbd)	-5.11070172829E+03	Apriori delay (usec)	-5.11020824295E+03	Resid mbdelay (usec)	-4.75755E-06	+/-	3.2E-03
Sband delay (usec)	-5.11070172395E+03	Apriori clock (usec)	1.3269104E+01	Resid sbdelay (usec)	-4.93481E-01	+/-	3.2E-03
Phase delay (usec)	-5.11020824694E+03	Apriori clockrate (us/s)	3.2000002E-07	Resid phdelay (usec)	-3.99212E-06	+/-	6.9E-07
Delay rate (us/s)	1.84092695993E+00	Apriori rate (us/s)	1.84092825127E+00	Resid rate (us/s)	-1.29134E-06	+/-	4.0E-09
Total phase (deg)	68.7	Apriori accel (us/s/s)	2.66690748247E-05	Resid phase (deg)	86.0	+/-	21.5

ph/seg (deg)	91.1	Theor.	184.3	Amplitude	0.463 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	374.6	Search (2048X8)	0.447	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.307	Inc. seg. avg.	0.307	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.3	Inc. frq. avg.	0.454	Inc. frq. avg.	0.454	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

I: az 91.3 el 30.4 pa -57.6 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -10946.268 508.455 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IP.W.240.0QR3WR

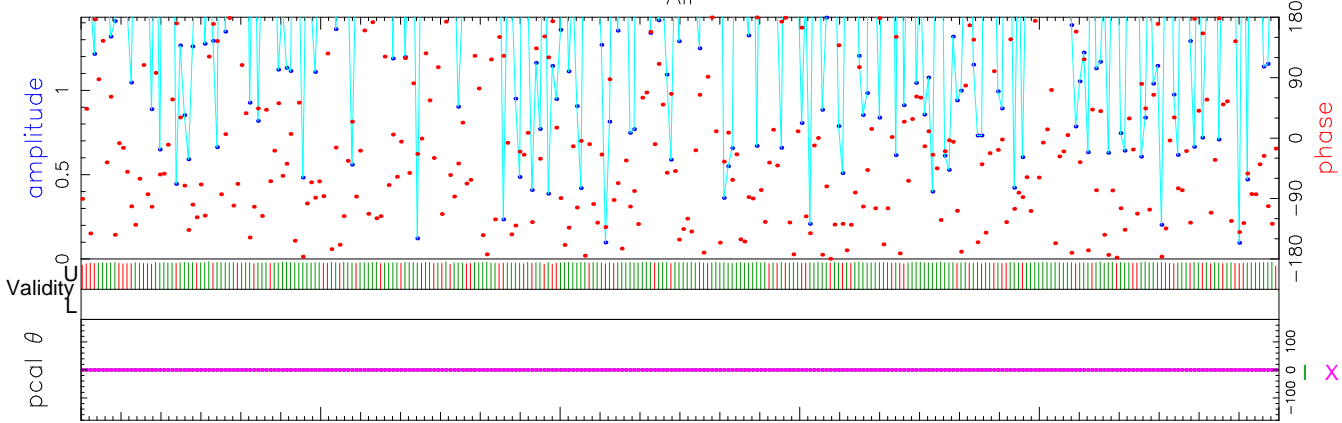


Fringe quality 0
SNR 5.0
Int time 287.952
Amp 0.478
Phase -107.2
PFD 1.0e+00
Delays (us)
SBD 2.126049
MBD 0.000005
Fringe rate (Hz)
0.463017
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-83.3
0.5
785.1
U/L 586/0
I 1000
X 0
I:X 0:0
I:X 0:0
I 1000
X 1000
I W06UL
X W06UL

Validity
pcal theta

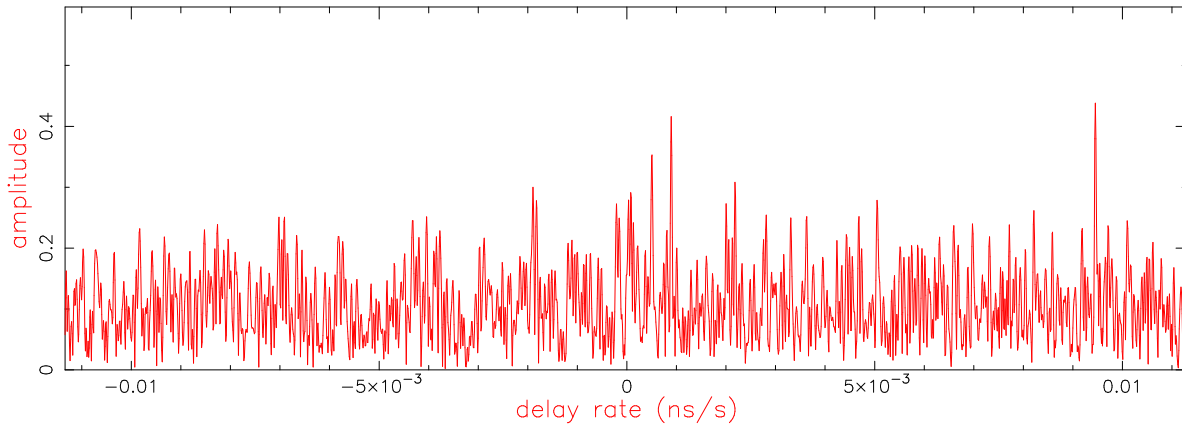
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.22893892116E+02	Apriori delay (usec)	-3.25019935065E+02	Resid mbdelay (usec)	4.71449E-06	+/-	3.4E-03
Sband delay (usec)	-3.22893886565E+02	Apriori clock (usec)	-1.1876612E+01	Resid sbdelay (usec)	2.12605E+00	+/-	3.4E-03
Phase delay (usec)	-3.25019937751E+02	Apriori clockrate (us/s)	-7.5699999E-07	Resid phdelay (usec)	-2.68543E-06	+/-	7.3E-07
Delay rate (us/s)	1.73872144587E+00	Apriori rate (us/s)	1.73871607070E+00	Resid rate (us/s)	5.37517E-06	+/-	4.2E-09
Total phase (deg)	-181.5	Apriori accel (us/s/s)	-6.47655486167E-06	Resid phase (deg)	-107.2	+/-	22.7

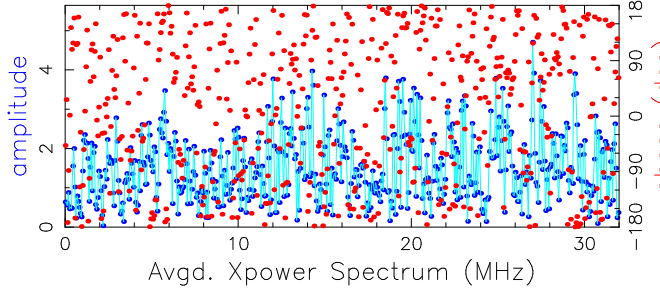
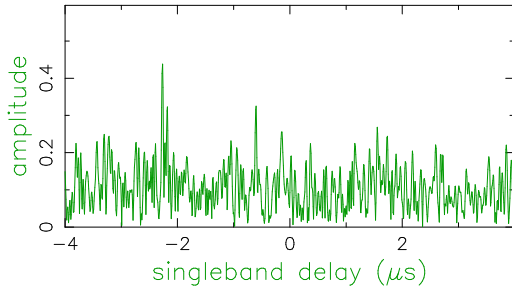
ph/seg (deg) 87.8 194.4 Search (2048X8) 0.418 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 379.1 339.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 11.4 Inc. seg. avg. 0.292 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 0.1 19.8 Inc. frq. avg. 0.468 Sample rate(MSamp/s): 64 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

I: az 91.3 el 30.4 pa -57.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10379.563 -2292.254 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IX.W.179.0QR3WR

Fringe quality 0

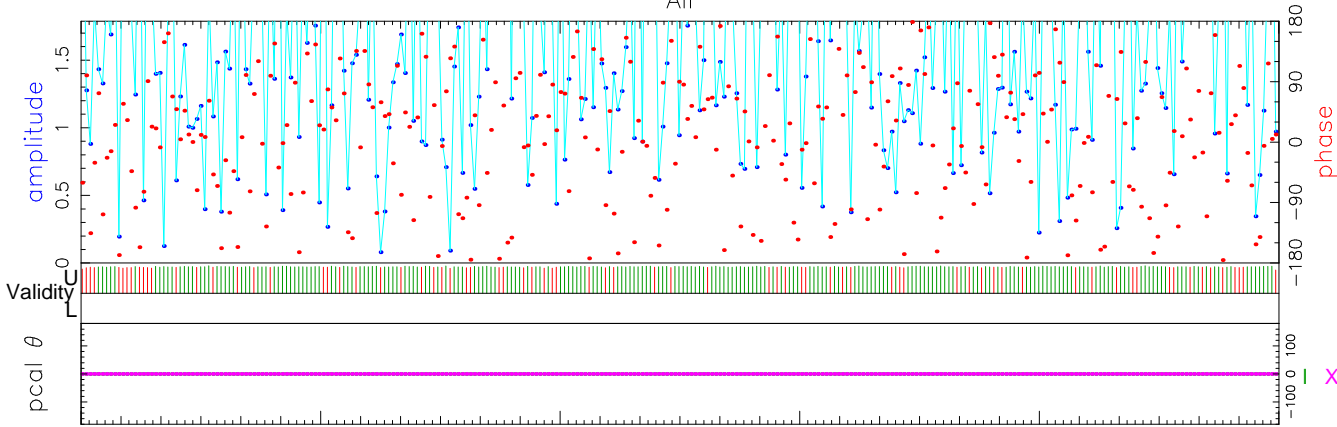


SNR 5.1
Int time 287.960
Amp 0.596
Phase 73.9
PFD 1.0e+00
Delays (us)
SBD -2.267172
MBD 0.000004
Fringe rate (Hz)
0.813696
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



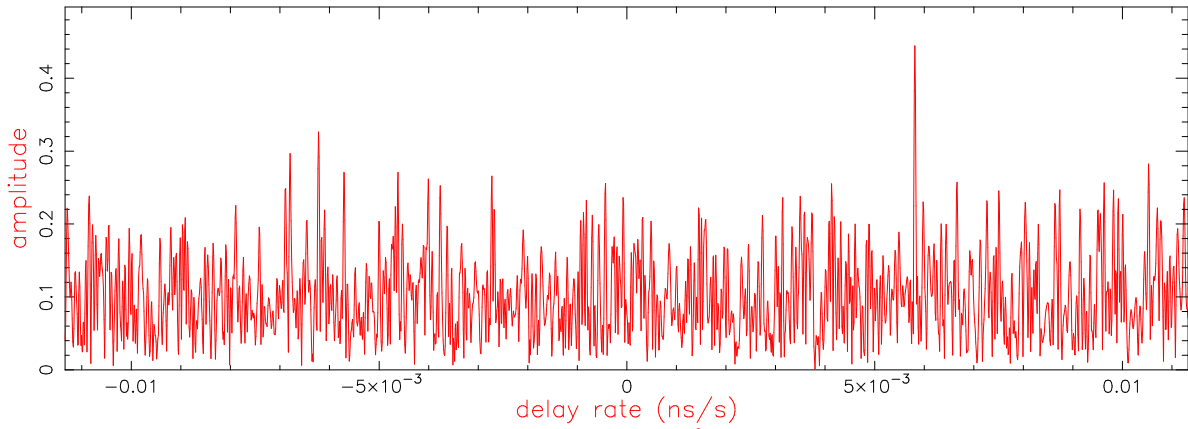
86204.00
38.0
0.6
222.8
U/L 586/0
I 1000
X 0
I:X 0:0
I:X 0:0
I 1000
X 1000
I W06UR
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.27287110892E+02	Apriori delay (usec)	-3.25019935065E+02	Resid mbdelay (usec)	4.35035E-06	+/- 3.4E-03
Sband delay (usec)	-3.27287107065E+02	Apriori clock (usec)	-1.1876612E+01	Resid sbdelay (usec)	-2.26717E+00	+/- 3.4E-03
Phase delay (usec)	-3.25019933839E+02	Apriori clockrate (us/s)	-7.5699999E-07	Resid phdelay (usec)	1.22654E-06	+/- 7.2E-07
Delay rate (us/s)	1.73872551691E+00	Apriori rate (us/s)	1.73871607070E+00	Resid rate (us/s)	9.44621E-06	+/- 4.2E-09
Total phase (deg)	359.5	Apriori accel (us/s/s)	-6.47655486167E-06	Resid phase (deg)	73.9	+/- 22.5

ph/seg (deg)	93.1	Theor.	192.2	Amplitude	0.596 +/- 0.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	383.6	Search (2048X8)	0.432	Search (2048X8)	0.432	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.4	Inc. seg. avg.	0.368	Inc. seg. avg.	0.368	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
		Inc. frq. avg.	0.582	Inc. frq. avg.	0.582	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite			

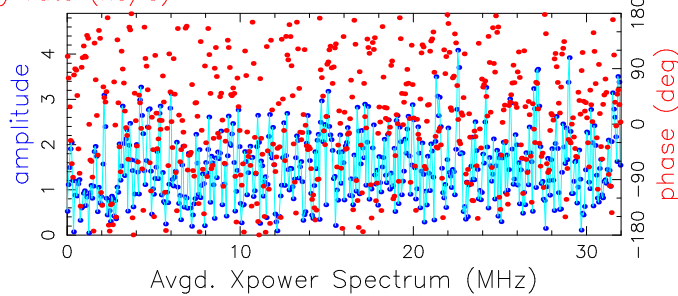
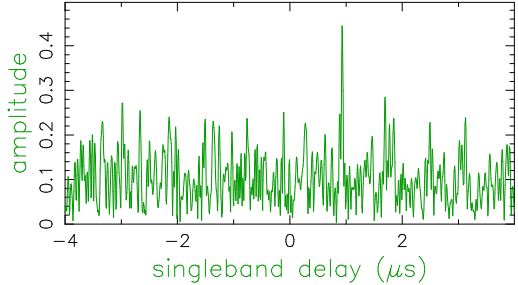
I: az 91.3 el 30.4 pa -57.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10379.563 -2292.254 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IX.W.199.0QR3WR



Fringe quality 0

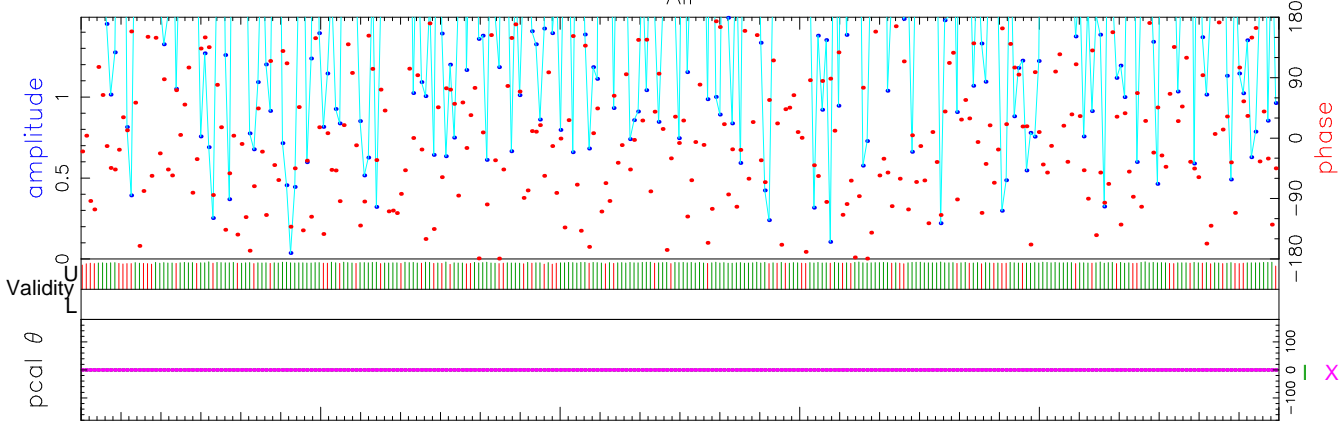
SNR 5.2
Int time 287.952
Amp 0.498
Phase -225.2
PFD 1.0e+00
Delays (us)
SBD 0.930907
MBD 0.000005
Fringe rate (Hz) 0.500566
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



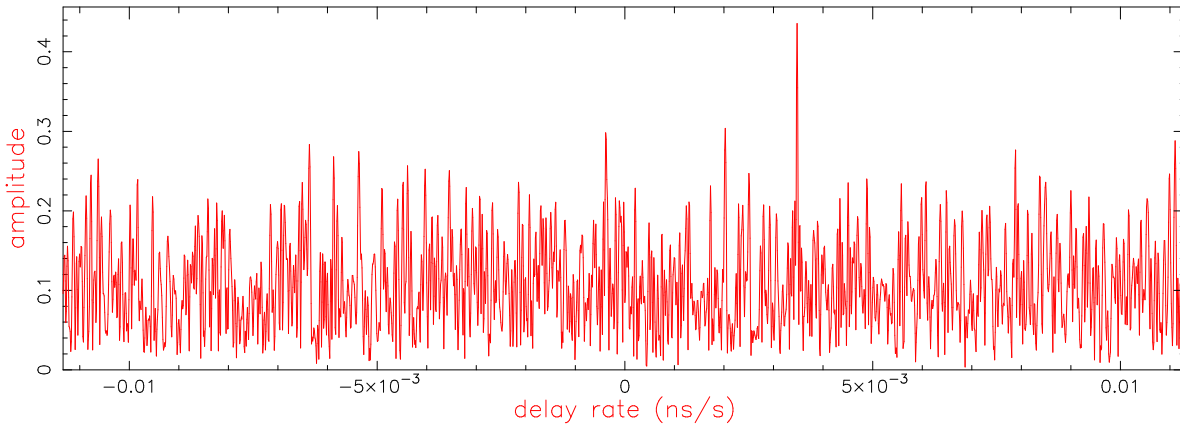
86204.00
-17.1
0.5
632.2
U/L 586/0
I 1000
X 0
I:X 0:0
I:X 0:0
I 1000
X 1000
I W06UL
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

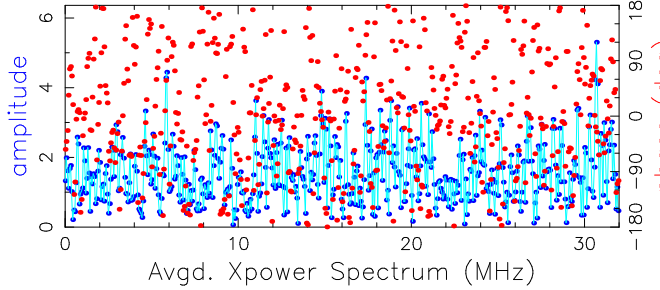
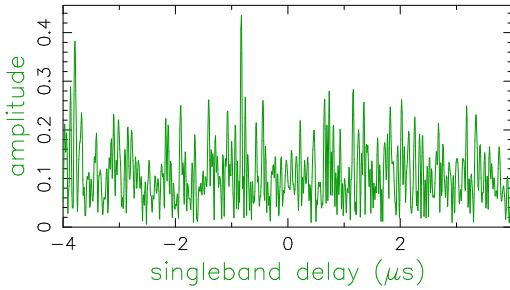
Group delay (usec)(sbd)	-3.24089022274E+02	Apriori delay (usec)	-3.25019935065E+02	Resid mbdelay (usec)	4.71282E-06	+/- 3.3E-03
Sband delay (usec)	-3.24089028065E+02	Apriori clock (usec)	-1.1876612E+01	Resid sbdelay (usec)	9.30907E-01	+/- 3.3E-03
Phase delay (usec)	-3.25019935617E+02	Apriori clockrate (us/s)	-7.5699999E-07	Resid phdelay (usec)	-5.51544E-07	+/- 7.1E-07
Delay rate (us/s)	1.73872188178E+00	Apriori rate (us/s)	1.73871607070E+00	Resid rate (us/s)	5.81108E-06	+/- 4.1E-09
Total phase (deg)	-299.6	Apriori accel (us/s/s)	-6.47655486167E-06	Resid phase (deg)	-225.2	+/- 22.2

ph/seg (deg) 92.2 189.7 Search (2048X8) 0.439 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 367.9 331.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 0.0 11.1 Inc. seg. avg. 0.305 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
 amp/frq (%) 0.3 19.3 Inc. frq. avg. 0.487 Sample rate(MSamp/s): 64 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 91.3 el 30.4 pa -57.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10379.563 -2292.254 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IX.W.220.0QR3WR

Fringe quality 0

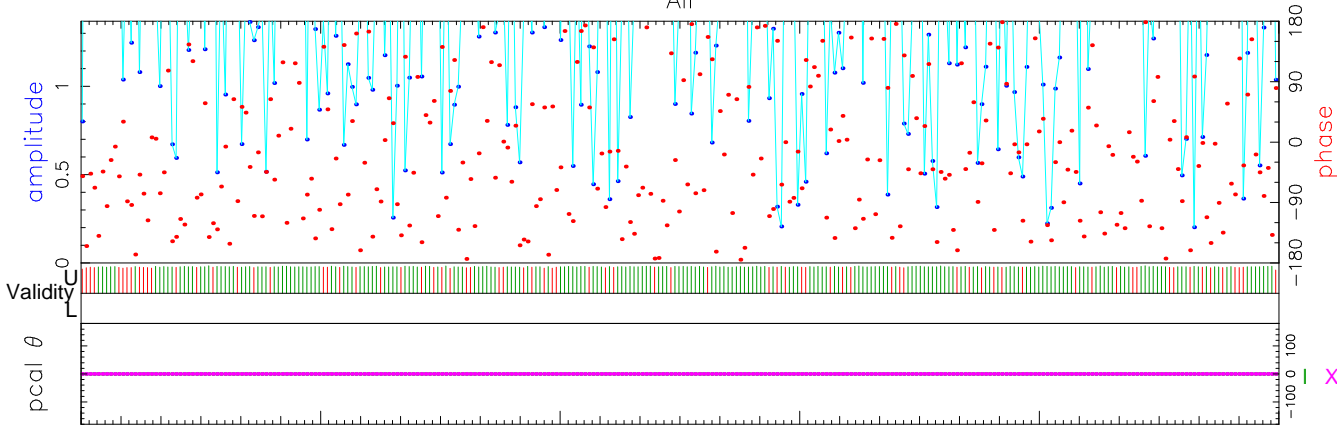


SNR 5.1
Int time 287.960
Amp 0.456
Phase 313.7
PFD 1.0e+00
Delays (us)
SBD -0.830001
MBD 0.000007
Fringe rate (Hz)
0.299305
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



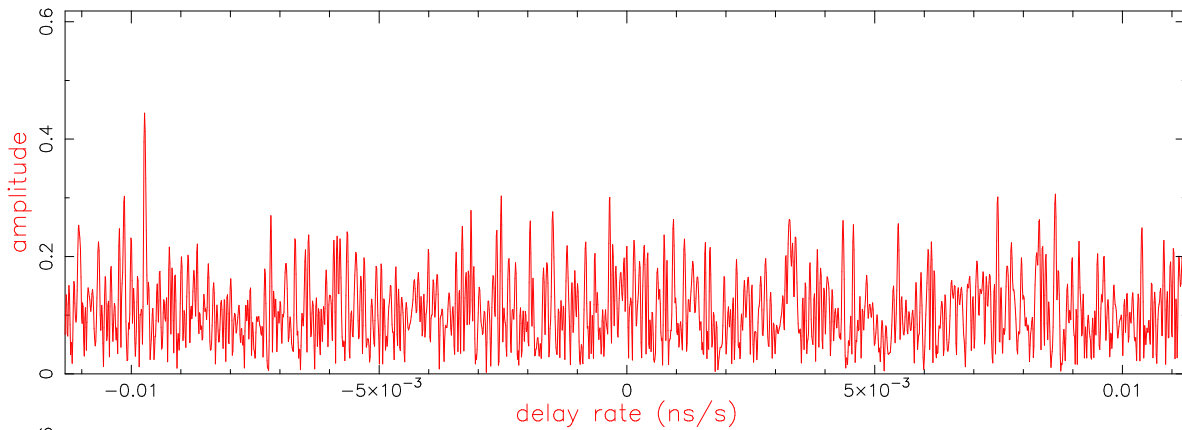
86204.00
-89.7
0.5
406.8
U/L 586/0
I 1000
X 0
I:X 0:0
I:X 0:0
I 1000
X 1000
I W06UR
X W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.25849936132E+02	Apriori delay (usec)	-3.25019935065E+02	Resid mbdelay (usec)	6.82177E-06	+/-	3.4E-03
Sband delay (usec)	-3.25849935565E+02	Apriori clock (usec)	-1.1876612E+01	Resid sbdelay (usec)	-8.30001E-01	+/-	3.4E-03
Phase delay (usec)	-3.25019937958E+02	Apriori clockrate (us/s)	-7.5699999E-07	Resid phdelay (usec)	-2.89329E-06	+/-	7.3E-07
Delay rate (us/s)	1.73871954534E+00	Apriori rate (us/s)	1.73871607070E+00	Resid rate (us/s)	3.47464E-06	+/-	4.2E-09
Total phase (deg)	239.3	Apriori accel (us/s/s)	-6.47655486167E-06	Resid phase (deg)	313.7	+/-	22.5

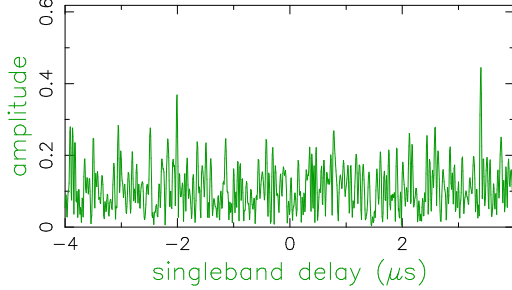
ph/seg (deg)	90.2	Theor.	192.6	Amplitude	0.456 +/- 0.090	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	378.4	Search (2048X8)	0.432	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.283	Inc. seg. avg.	0.283	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.444	Inc. frq. avg.	0.444	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

I: az 91.3 el 30.4 pa -57.6 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) -10379.563 -2292.254 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IX.W.254.0QR3WR

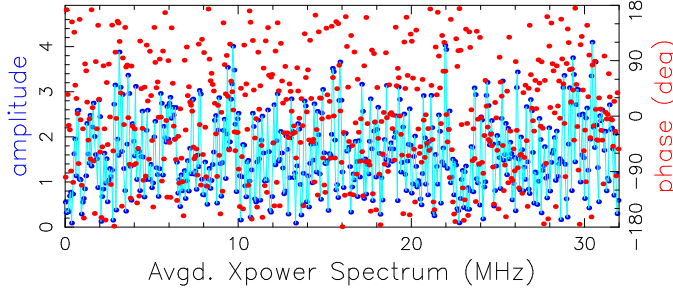


Fringe quality 0

SNR 5.1
Int time 274.193
Amp 0.618
Phase -14.6
PFD 1.0e+00
Delays (us)
SBD 3.396441
MBD -0.000005
Fringe rate (Hz)
-0.837186
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



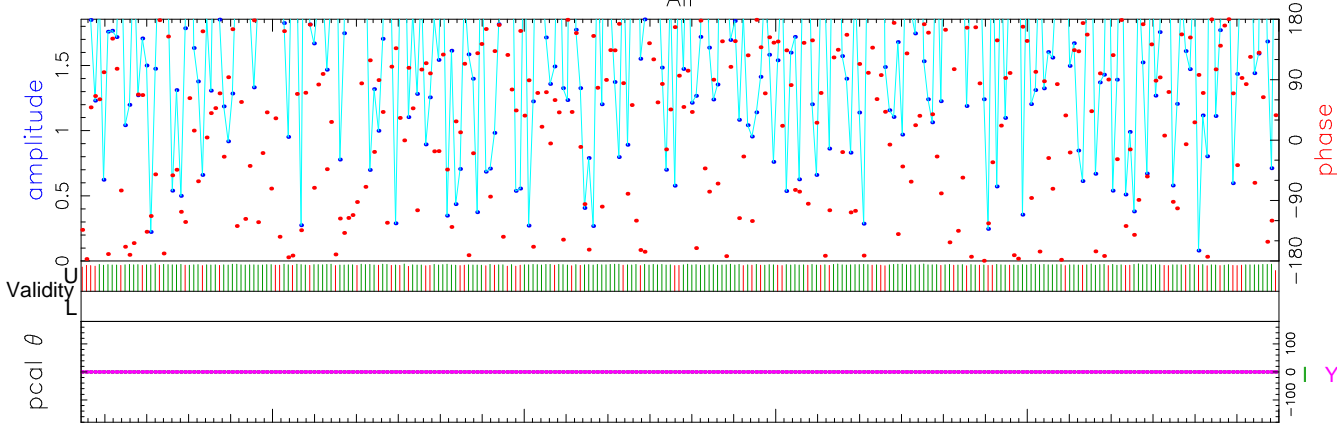
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174208
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
119.4
0.6
947.7
U/L 558/0
I 1000
Y 0
I:Y 0:0
I:Y 0:0
I 1000
Y 1000
I W06UL
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.74326430413E+03	Apriori delay (usec)	-4.74666074247E+03	Resid mbdelay (usec)	-4.97768E-06	+/-	3.4E-03
Sband delay (usec)	-4.74326430197E+03	Apriori clock (usec)	6.1704140E+00	Resid sbdelay (usec)	3.39644E+00	+/-	3.4E-03
Phase delay (usec)	-4.74666073862E+03	Apriori clockrate (us/s)	-1.7000000E-07	Resid phdelay (usec)	3.85044E-06	+/-	7.3E-07
Delay rate (us/s)	1.80935504485E+00	Apriori rate (us/s)	1.80936476375E+00	Resid rate (us/s)	-9.71889E-06	+/-	4.4E-09
Total phase (deg)	-142.9	Apriori accel (us/s/s)	2.32190056052E-05	Resid phase (deg)	-14.6	+/-	22.6

ph/seg (deg)	90.7	Theor.	188.8	Amplitude	0.618 +/- 0.122	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	371.1	Search (2048X8)	0.439	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.390	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.7	Inc. frq. avg.	0.602	Inc. frq. avg.	0.602	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

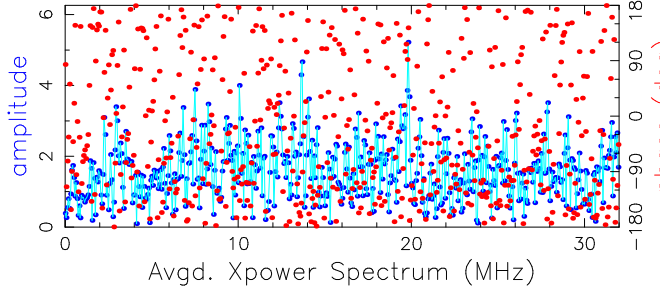
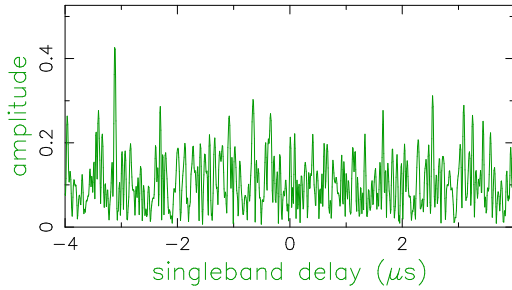
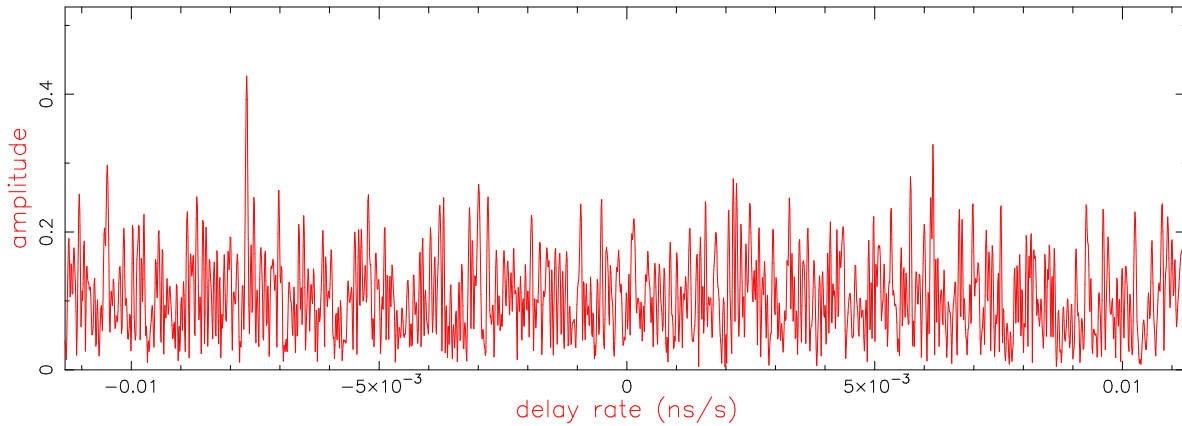
I: az 91.3 el 30.4 pa -57.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10762.586 29.965 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IY.W.178.0QR3WR

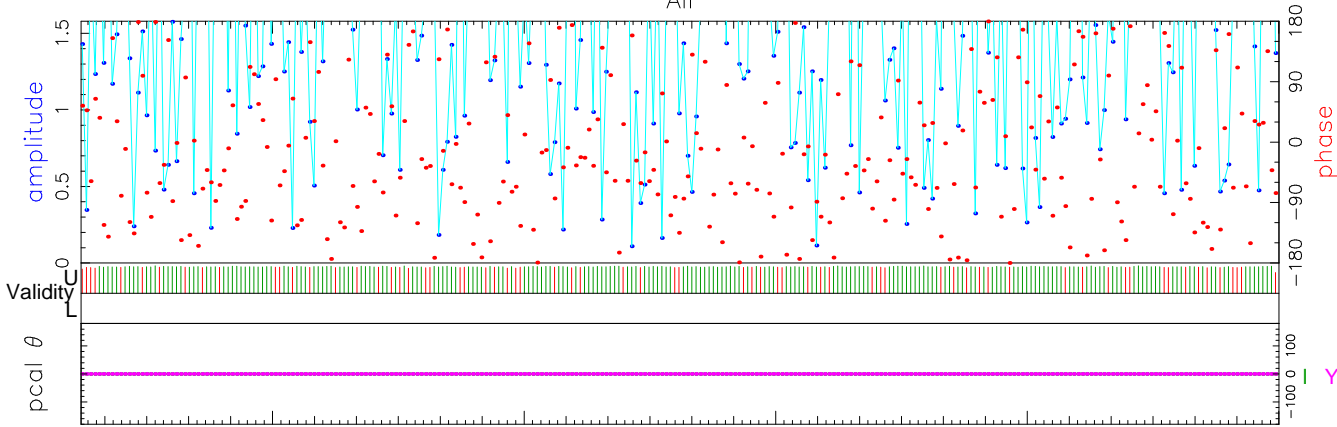
Fringe quality 0

SNR 4.9
Int time 274.201
Amp 0.527
Phase 33.7
PFD 1.0e+00
Delays (us)
SBD -3.113765
MBD -0.000005
Fringe rate (Hz)
-0.660061
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-67.2
0.5
114.4
U/L 558/0
I 1000
Y 0
I:Y 0:0
I:Y 0:0
I 1000
Y 1000
I W06UR
Y W06UR

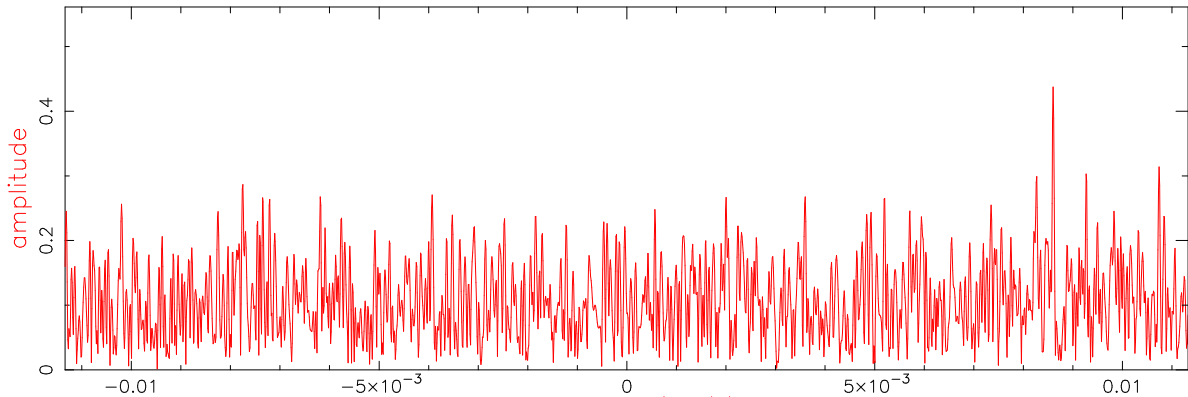
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.74977450135E+03	Apriori delay (usec)	-4.74666074247E+03	Resid mbdelay (usec)	-5.46499E-06	+/-	3.5E-03
Sband delay (usec)	-4.74977450697E+03	Apriori clock (usec)	6.1704140E+00	Resid sbdelay (usec)	-3.11376E+00	+/-	3.5E-03
Phase delay (usec)	-4.74666074464E+03	Apriori clockrate (us/s)	-1.7000000E-07	Resid phdelay (usec)	-2.16759E-06	+/-	7.5E-07
Delay rate (us/s)	1.80935710109E+00	Apriori rate (us/s)	1.80936476375E+00	Resid rate (us/s)	-7.66266E-06	+/-	4.6E-09
Total phase (deg)	265.4	Apriori accel (us/s/s)	2.32190056052E-05	Resid phase (deg)	33.7	+/-	23.4

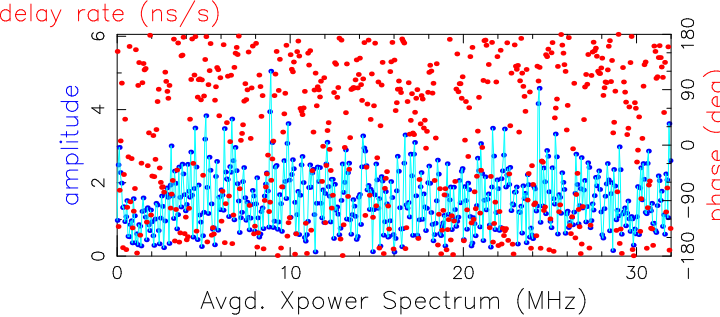
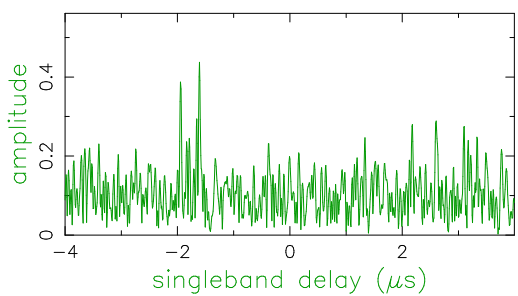
ph/seg (deg)	90.9	Theor.	195.2	Amplitude	0.527 +/- 0.107	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	387.8	Search (2048X8)	0.425	Search	0.425	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.319	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.6	Inc. frq. avg.	0.508	Inc. frq. avg.	0.508	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

I: az 91.3 el 30.4 pa -57.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10762.586 29.965 simultaneous interpolator

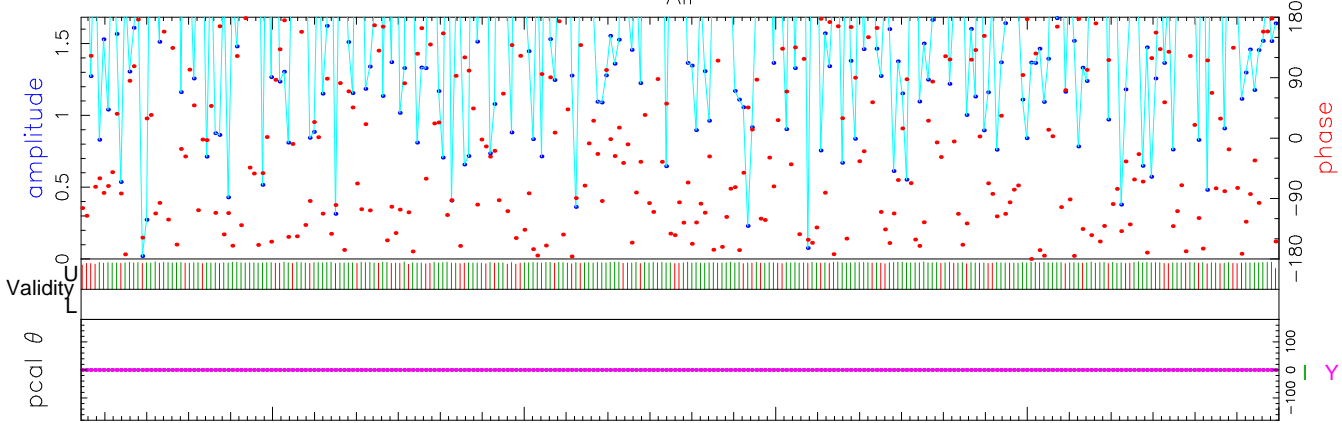
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IY.W.204.0QR3WR



Fringe quality 0
SNR 5.0
Int time 274.193
Amp 0.561
Phase 249.3
PFD 1.0e+00
Delays (us)
SBD -1.610042
MBD 0.000007
Fringe rate (Hz)
0.740633
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-126.3
0.6
306.9
U/L 558/0
I 1000
Y 0
I:Y 0:0
I:Y 0:0
I 1000
Y 1000
I W06UL
Y W06UR

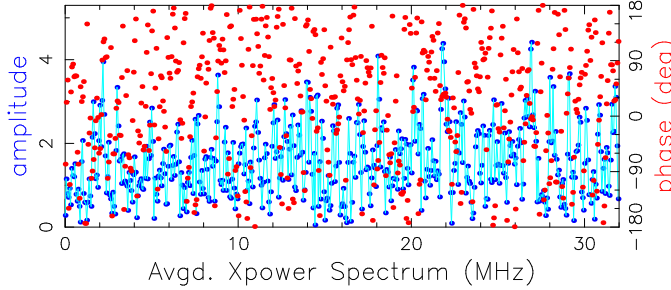
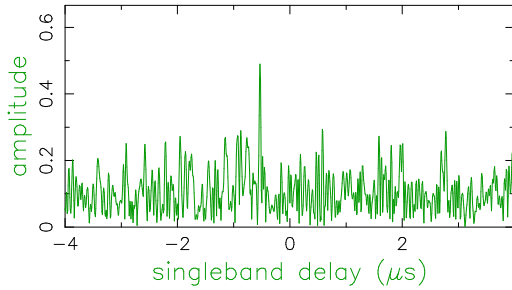
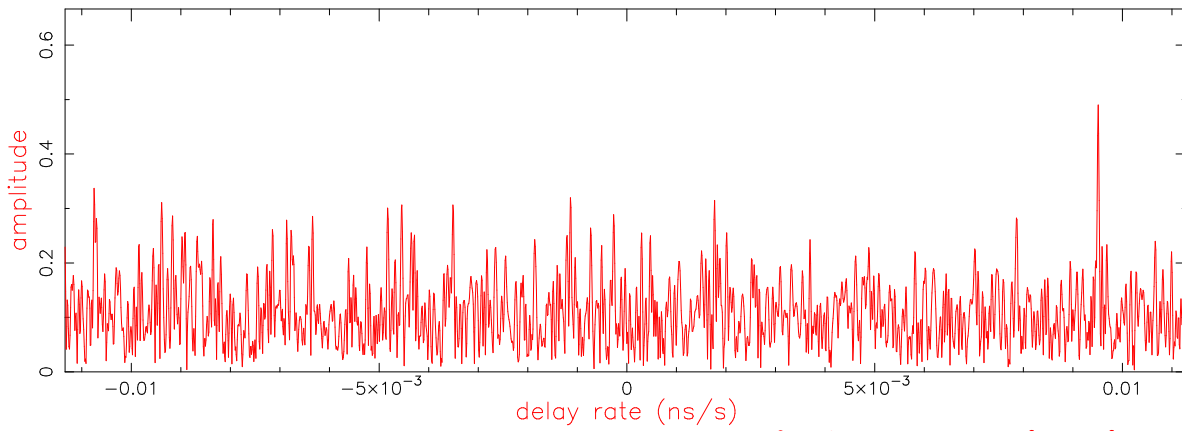
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.74827078812E+03	Apriori delay (usec)	-4.74666074247E+03	Resid mbdelay (usec)	7.24451E-06	+/-	3.5E-03
Sband delay (usec)	-4.74827078497E+03	Apriori clock (usec)	6.1704140E+00	Resid sbdelay (usec)	-1.61004E+00	+/-	3.5E-03
Phase delay (usec)	-4.74666074654E+03	Apriori clockrate (us/s)	-1.7000000E-07	Resid phdelay (usec)	-4.07428E-06	+/-	7.5E-07
Delay rate (us/s)	1.80937336176E+00	Apriori rate (us/s)	1.80936476375E+00	Resid rate (us/s)	8.59801E-06	+/-	4.5E-09
Total phase (deg)	121.1	Apriori accel (us/s/s)	2.32190056052E-05	Resid phase (deg)	249.3	+/-	23.1
ph/seg (deg)	90.1	RMS	90.1	Theor.	193.2	Amplitude	0.561 +/- 0.113
amp/seg (%)	390.7	Search (2048X8)	0.427	Interp.	0.000	Pcal mode:	MANUAL, MANUAL
ph/frq (deg)	0.0	Inc. seg. avg.	0.357	Inc. frq. avg.	0.550	PC period (AP's)	5, 5
amp/frq (%)	0.1	20.2				sb window (us)	-4.000 4.000
I: az 91.3 el 30.4 pa -57.6		Y: az 246.0 el 48.3 pa 46.5		u,v (fr/asec)	-10762.586 29.965	mb window (us)	-0.000 0.000
						dr window (ns/s)	-0.011 0.011
						ion window (TEC)	0.00 0.00

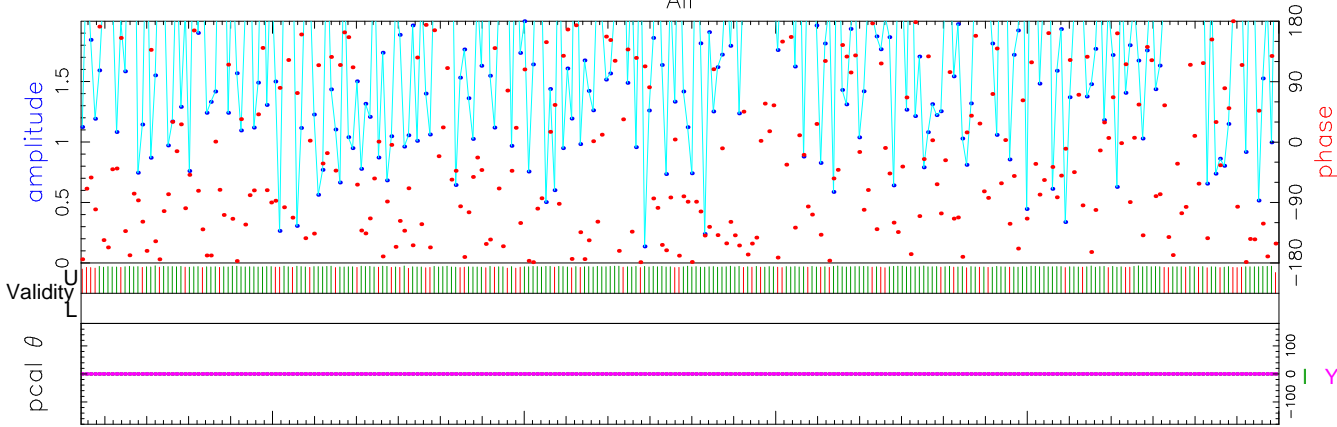
Fringe quality 0

SNR 5.5
Int time 274.201
Amp 0.666
Phase 239.5
PFD 9.7e-01
Delays (us)
SBD -0.531269
MBD 0.000005
Fringe rate (Hz)
0.818335
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-121.1
0.7
445.0
U/L 558/0
I 1000
Y 0
I:Y 0:0
I:Y 0:0
I 1000
Y 1000
I W06UR
Y W06UL

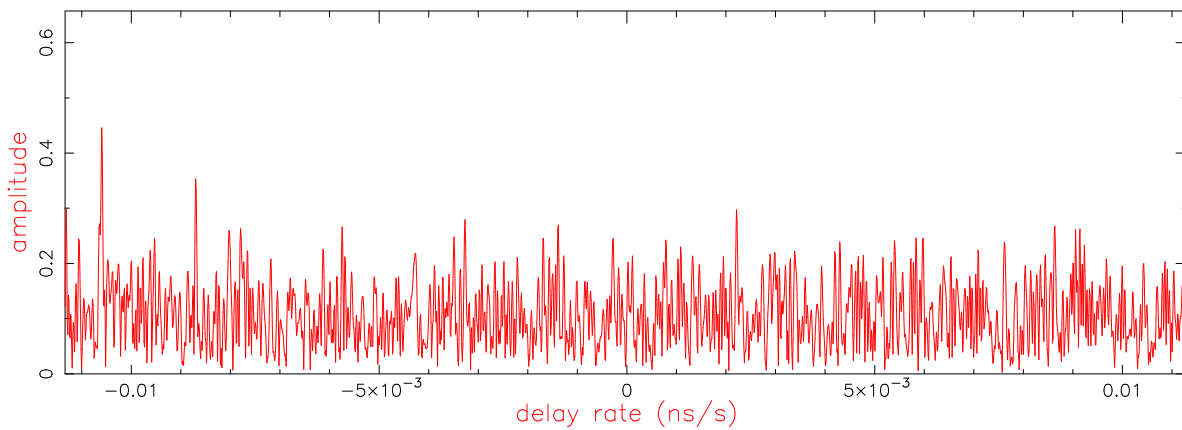
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.74719201180E+03	Apriori delay (usec)	-4.74666074247E+03	Resid mbdelay (usec)	5.32180E-06	+/-	3.1E-03
Sband delay (usec)	-4.74719201147E+03	Apriori clock (usec)	6.1704140E+00	Resid sbdelay (usec)	-5.31269E-01	+/-	3.1E-03
Phase delay (usec)	-4.74666074637E+03	Apriori clockrate (us/s)	-1.7000000E-07	Resid phdelay (usec)	-3.90414E-06	+/-	6.7E-07
Delay rate (us/s)	1.80937426380E+00	Apriori rate (us/s)	1.80936476375E+00	Resid rate (us/s)	9.50005E-06	+/-	4.0E-09
Total phase (deg)	111.3	Apriori accel (us/s/s)	2.32190056052E-05	Resid phase (deg)	239.5	+/-	20.7

ph/seg (deg)	88.0	Theor.	172.5	Amplitude	0.666 +/- 0.120	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	336.3	Search (2048X8)	0.487	Search	0.487	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.465	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.656	Inc. frq. avg.	0.656	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

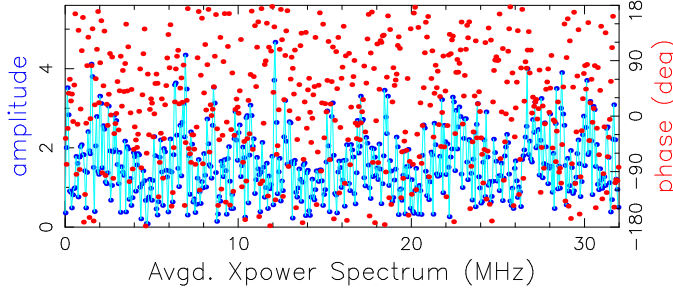
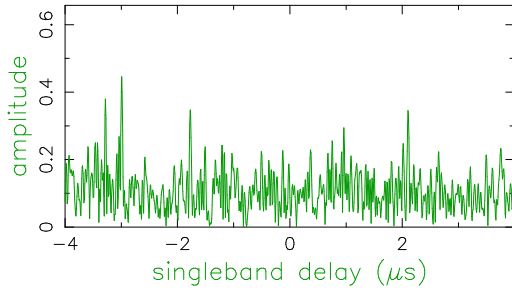
I: az 91.3 el 30.4 pa -57.6 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10762.586 29.965 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IY.W.225.0QR3WR



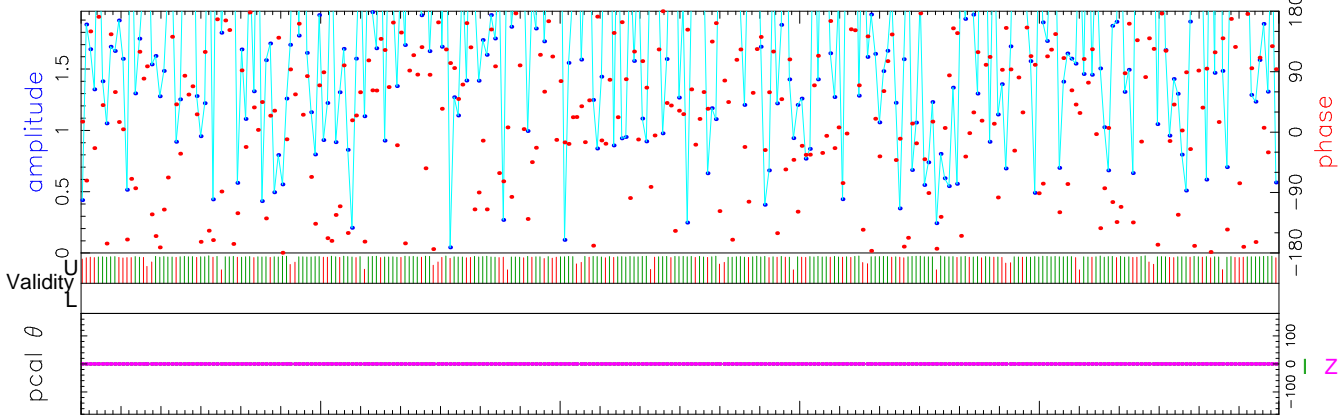
Fringe quality 0

SNR 5.1
 Int time 280.331
 Amp 0.657
 Phase 273.0
 PFD 1.0e+00
 Delays (us)
 SBD -2.992319
 MBD -0.000007
 Fringe rate (Hz)
 -0.912352
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174209
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 90.2
 0.7
 130.0
 U/L 586/0
 I 1000
 Z 0
 I:Z 0:0
 I:Z 0:0
 I 1000
 Z 1000
 I W06UL
 Z W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 ManI PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	1.97584554475E+03	Apriori delay (usec)	1.97883786052E+03	Resid mbdelay (usec)	-6.83421E-06	+/- 3.4E-03
Sband delay (usec)	1.97584554152E+03	Apriori clock (usec)	1.3045181E+01	Resid sbdelay (usec)	-2.99232E+00	+/- 3.4E-03
Phase delay (usec)	1.97883786343E+03	Apriori clockrate (us/s)	-5.2699999E-07	Resid phdelay (usec)	2.90990E-06	+/- 7.2E-07
Delay rate (us/s)	1.76437055465E+00	Apriori rate (us/s)	1.76438114615E+00	Resid rate (us/s)	-1.05915E-05	+/- 4.2E-09
Total phase (deg)	22.9	Apriori accel (us/s/s)	-1.94025974611E-05	Resid phase (deg)	273.0	+/- 22.5

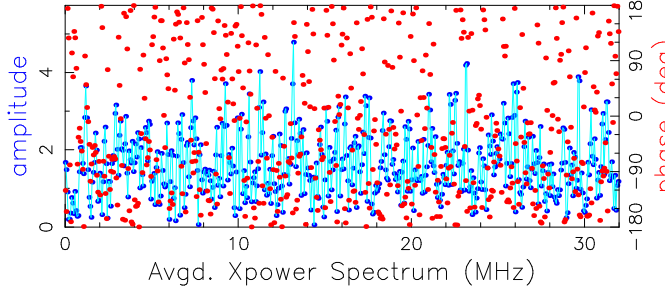
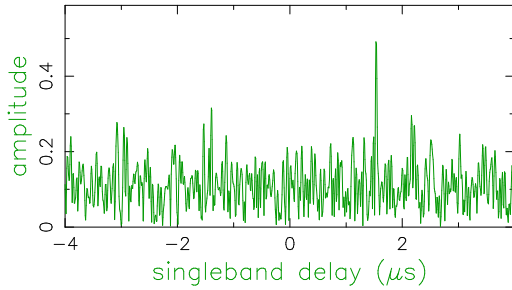
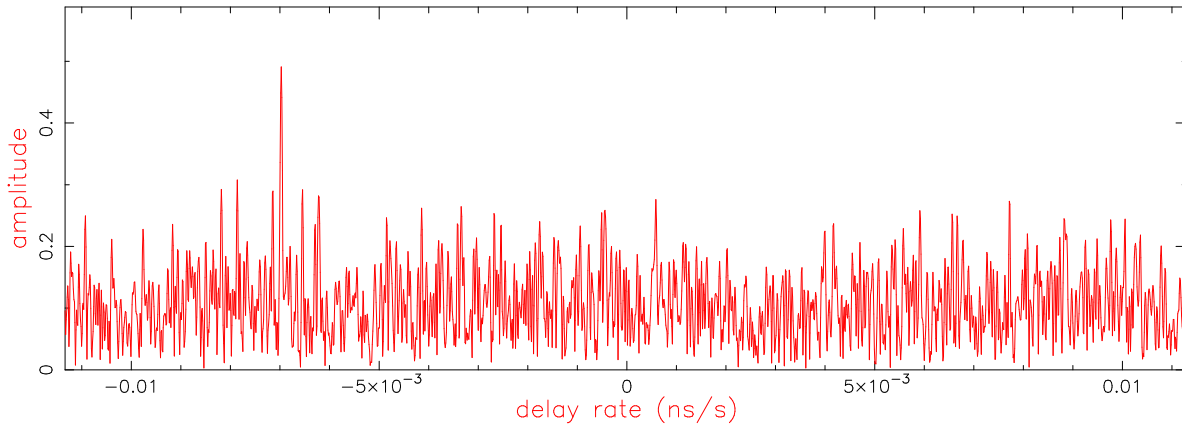
ph/seg (deg)	RMS 90.1	Theor. 192.3	Amplitude 0.657 +/- 0.129	Search (2048X8) 0.438	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	392.8	335.6	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.2	Inc. seg. avg. 0.423	0.645	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.0	19.6	Inc. frq. avg. 0.645		Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 91.3 el 30.4 pa -57.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10549.051 -2805.072 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IZ.W.184.0QR3WR

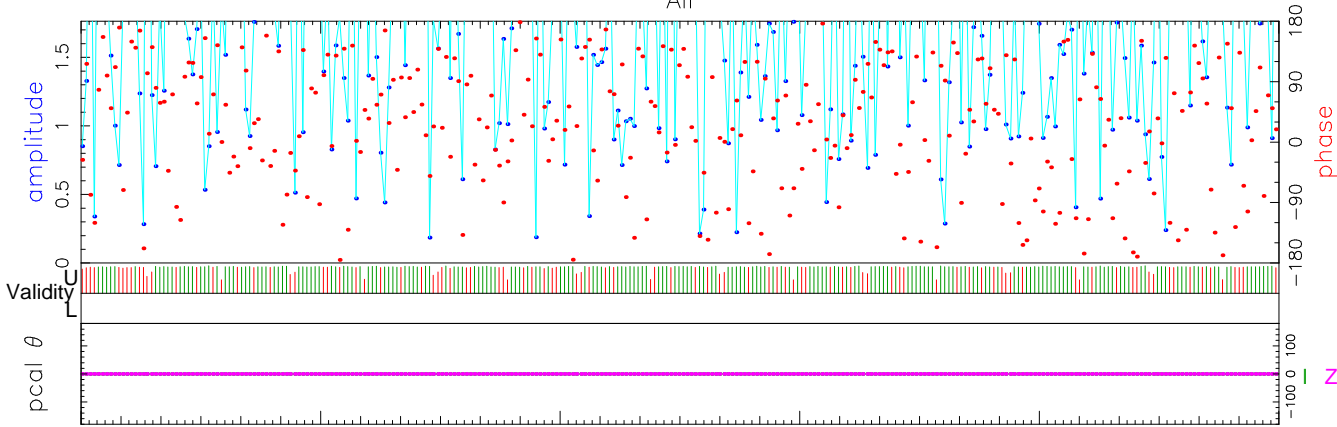
Fringe quality 0

SNR 5.7
Int time 280.339
Amp 0.588
Phase -10.2
PFD 7.0e-01
Delays (us)
SBD 1.534649
MBD -0.000004
Fringe rate (Hz)
-0.600169
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174210
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
68.1
0.6
709.4
U/L 586/0
I 1000
Z 0
I:Z 0:0
I:Z 0:0
I 1000
Z 1000
I W06UR
Z W06UR

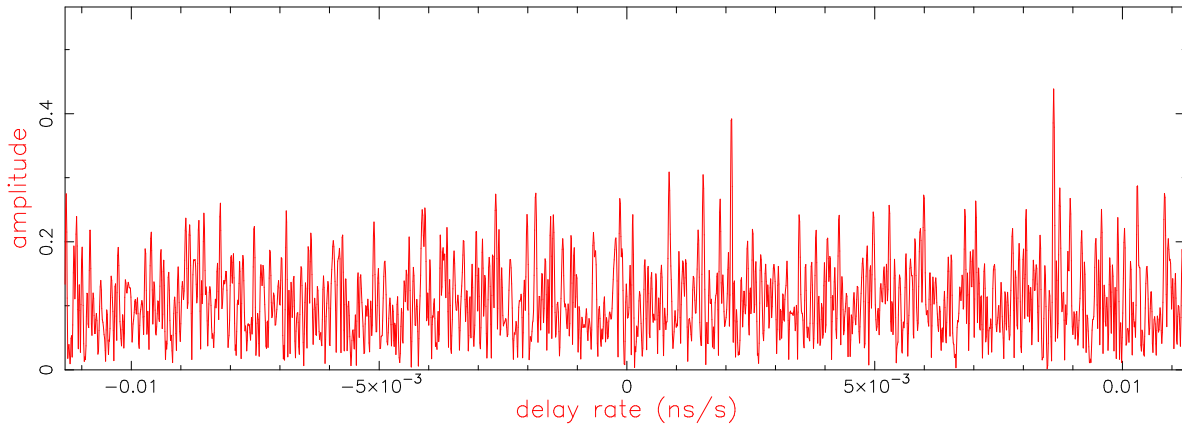
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.98037250652E+03	Apriori delay (usec)	1.97883786052E+03	Resid mbdelay (usec)	-4.36202E-06	+/-	3.0E-03
Sband delay (usec)	1.98037250952E+03	Apriori clock (usec)	1.3045181E+01	Resid sbdelay (usec)	1.53465E+00	+/-	3.0E-03
Phase delay (usec)	1.97883786272E+03	Apriori clockrate (us/s)	-5.2699999E-07	Resid phdelay (usec)	2.19674E-06	+/-	6.4E-07
Delay rate (us/s)	1.76437417878E+00	Apriori rate (us/s)	1.76438114615E+00	Resid rate (us/s)	-6.96737E-06	+/-	3.7E-09
Total phase (deg)	-260.3	Apriori accel (us/s/s)	-1.94025974611E-05	Resid phase (deg)	-10.2	+/-	20.0

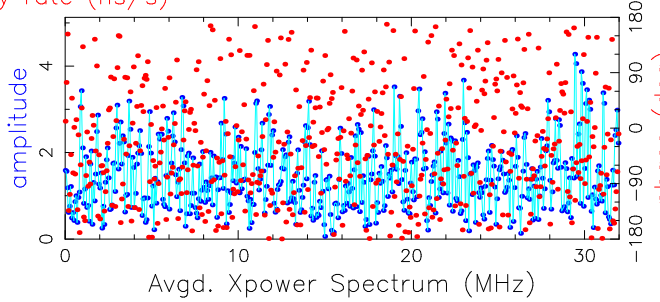
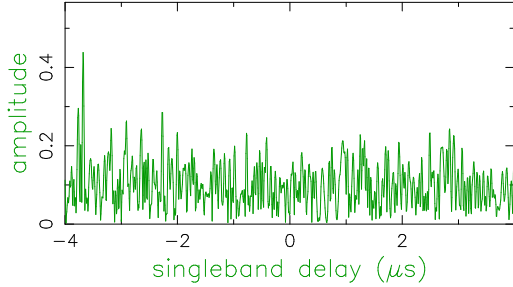
ph/seg (deg)	90.0	Theor.	171.1	Amplitude	0.588 +/- 0.103	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	345.8	Search (2048X8)	0.483	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.413	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	2.0	Inc. frq. avg.	0.568	Inc. frq. avg.	0.568	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000

I: az 91.3 el 30.4 pa -57.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10549.051 -2805.072 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IZ.W.194.0QR3WR

Fringe quality 0

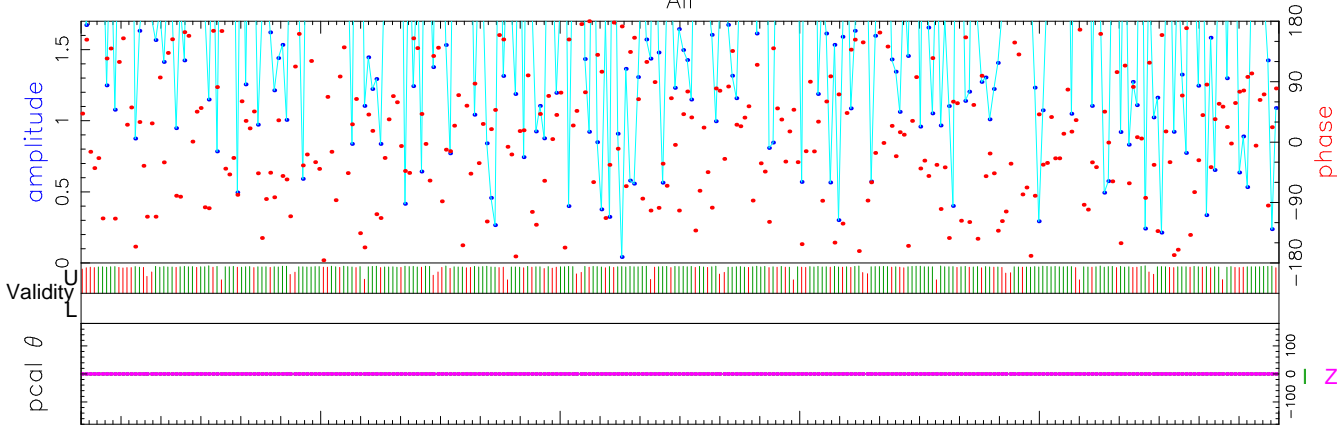


SNR 5.1
Int time 280.331
Amp 0.567
Phase 142.1
PFD 1.0e+00
Delays (us)
SBD -3.677797
MBD 0.000004
Fringe rate (Hz)
0.741118
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
5.6
0.6
42.2
U/L 586/0
I 1000
Z 0
I:Z 0:0
I:Z 0:0
I 1000
Z 1000
I W06UL
Z W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.97516006570E+03	Apriori delay (usec)	1.97883786052E+03	Resid mbdelay (usec)	4.35119E-06	+/-	3.4E-03
Sband delay (usec)	1.97516006402E+03	Apriori clock (usec)	1.3045181E+01	Resid sbdelay (usec)	-3.67780E+00	+/-	3.4E-03
Phase delay (usec)	1.97883786070E+03	Apriori clockrate (us/s)	-5.2699999E-07	Resid phdelay (usec)	1.81961E-07	+/-	7.3E-07
Delay rate (us/s)	1.76438974980E+00	Apriori rate (us/s)	1.76438114615E+00	Resid rate (us/s)	8.60365E-06	+/-	4.2E-09
Total phase (deg)	252.0	Apriori accel (us/s/s)	-1.94025974611E-05	Resid phase (deg)	142.1	+/-	22.7

ph/seg (deg)	90.3	Theor.	194.0	Amplitude	0.567 +/- 0.112	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	400.0	Search (2048X8)	0.435	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.362	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.552	Inc. frq. avg.	0.552	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

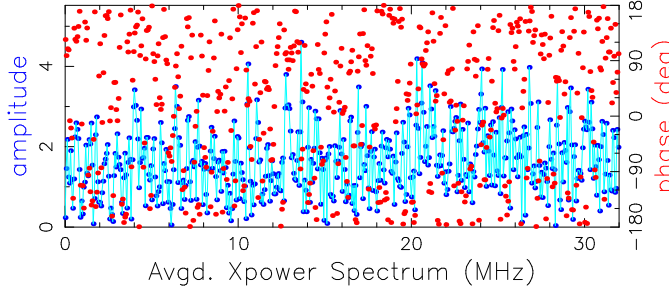
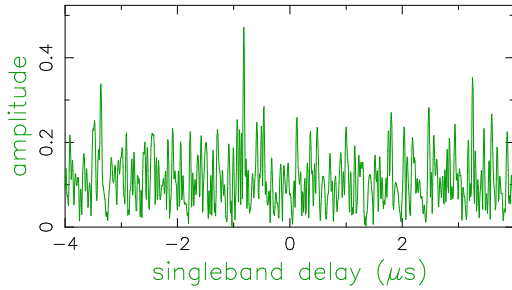
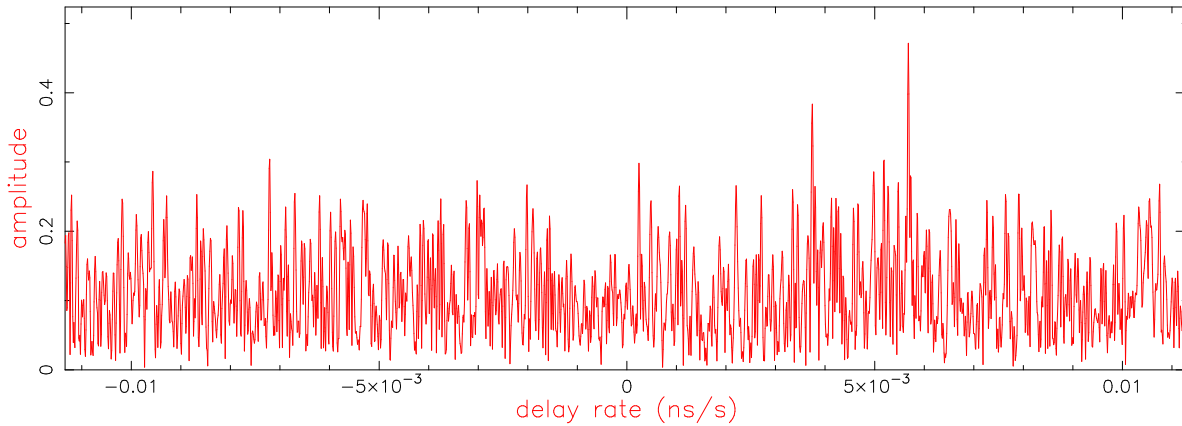
I: az 91.3 el 30.4 pa -57.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10549.051 -2805.072 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IZ.W.214.0QR3WR

Fringe quality 0

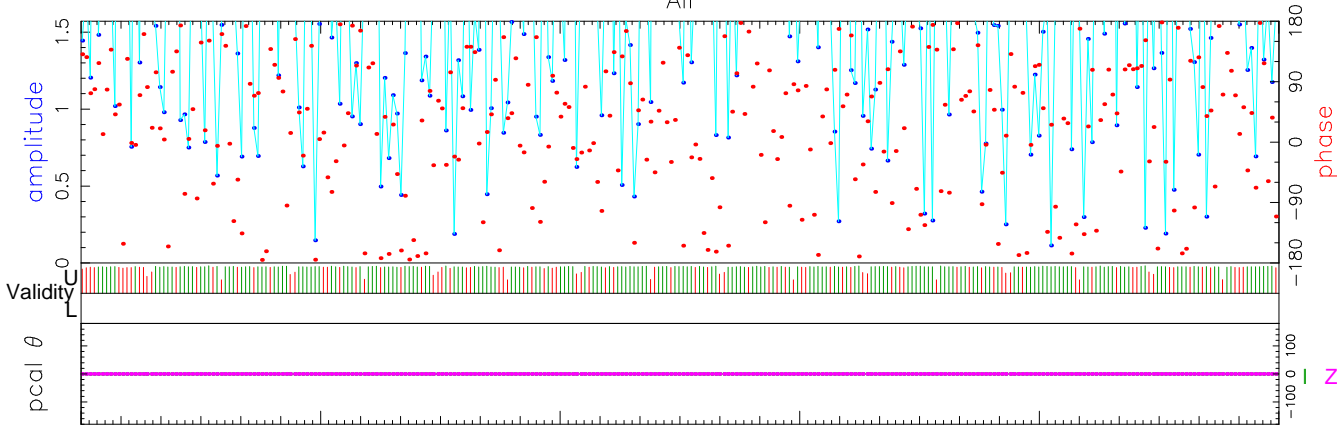
SNR 5.4
Int time 280.339
Amp 0.524
Phase 254.6
PFD 1.0e+00
Delays (us)
SBD -0.819970
MBD 0.000005
Fringe rate (Hz)
0.488858
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
82.4
0.5
408.1
U/L 586/0
I 1000
Z 0
I:Z 0:0
I:Z 0:0
I 1000
Z 1000
I W06UR
Z W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp

Chan ids
Chan ids

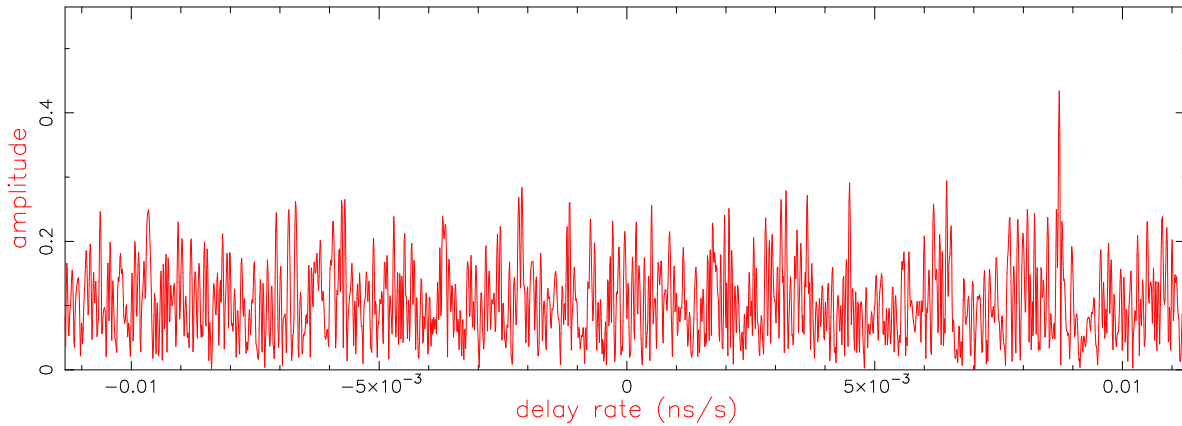
Group delay (usec)(sbd)	1.97801789152E+03	Apriori delay (usec)	1.97883786052E+03	Resid mbdelay (usec)	4.54939E-06	+/-	3.2E-03
Sband delay (usec)	1.97801789002E+03	Apriori clock (usec)	1.3045181E+01	Resid sbdelay (usec)	-8.19970E-01	+/-	3.2E-03
Phase delay (usec)	1.97883786318E+03	Apriori clockrate (us/s)	-5.2699999E-07	Resid phdelay (usec)	2.65836E-06	+/-	6.8E-07
Delay rate (us/s)	1.76438682131E+00	Apriori rate (us/s)	1.76438114615E+00	Resid rate (us/s)	5.67516E-06	+/-	4.0E-09
Total phase (deg)	4.5	Apriori accel (us/s/s)	-1.94025974611E-05	Resid phase (deg)	254.6	+/-	21.2

ph/seg (deg)	RMS 90.4	Theor. 181.7	Amplitude 0.524 +/- 0.097	Search (2048X8) 0.455	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	381.8	317.2	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	10.6	Inc. seg. avg. 0.354	0.354	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.0	18.5	Inc. frq. avg. 0.515	0.515	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

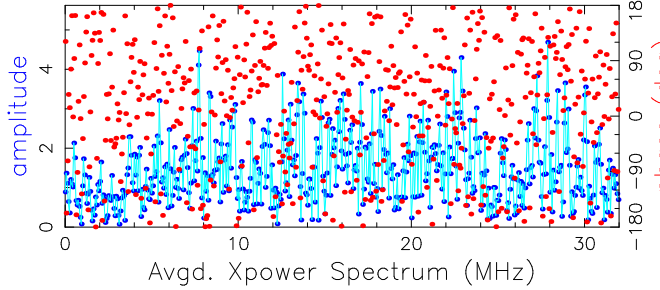
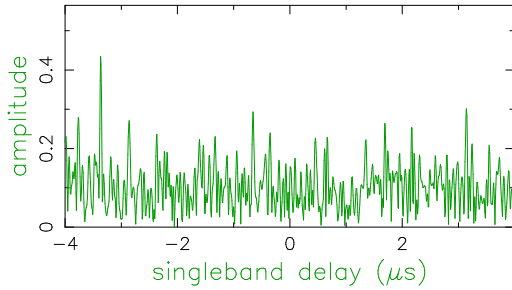
I: az 91.3 el 30.4 pa -57.6 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) -10549.051 -2805.072 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//IZ..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//IZ.W.237.0QR3WR

Fringe quality 0

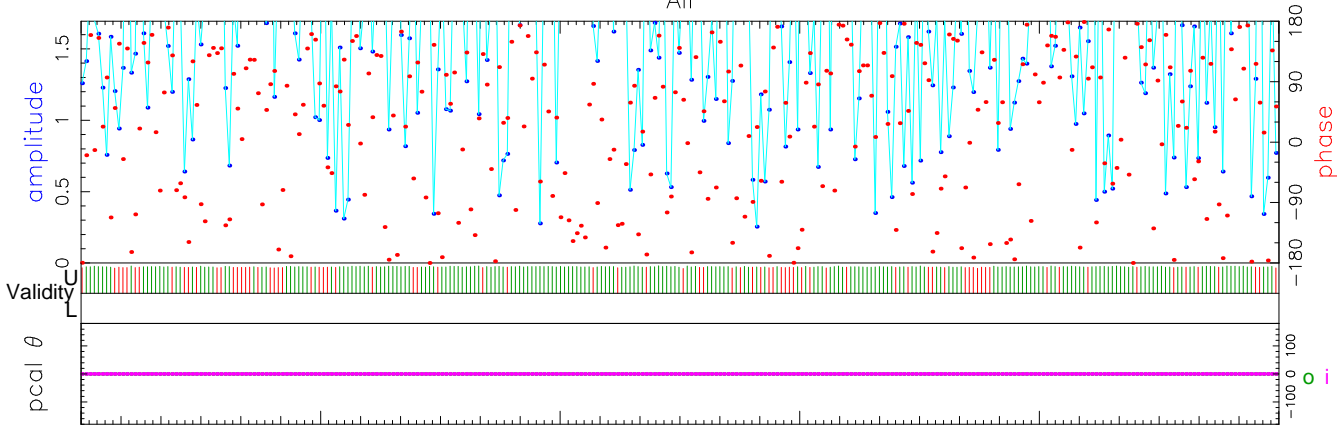


SNR 5.1
Int time 287.953
Amp 0.565
Phase 267.4
PFD 1.0e+00
Delays (us)
SBD -3.365133
MBD 0.000004
Fringe rate (Hz)
0.750656
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



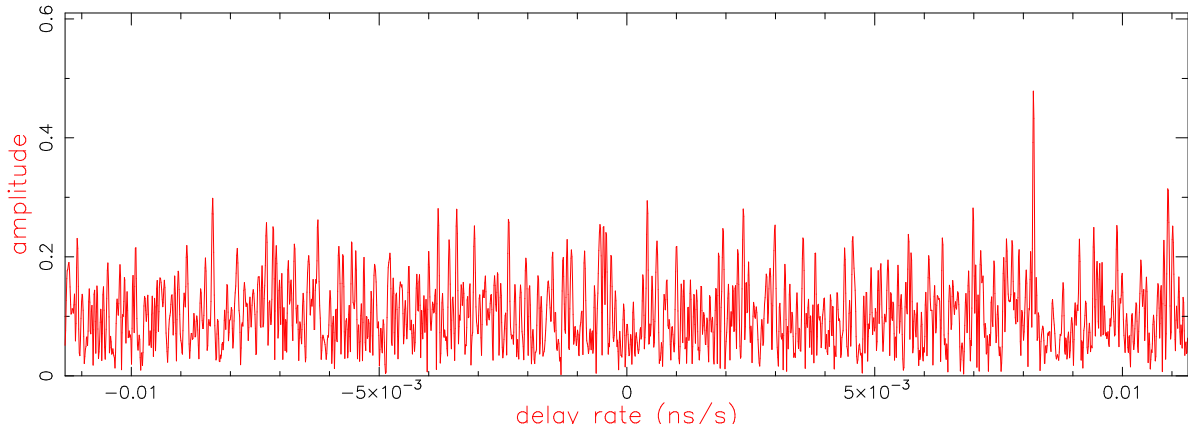
86204.00
134.7
0.6
82.3
U/L 586/0
o 1000
i 0
oi 0:0
oi 0:0
o 1000
i 1000
o W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

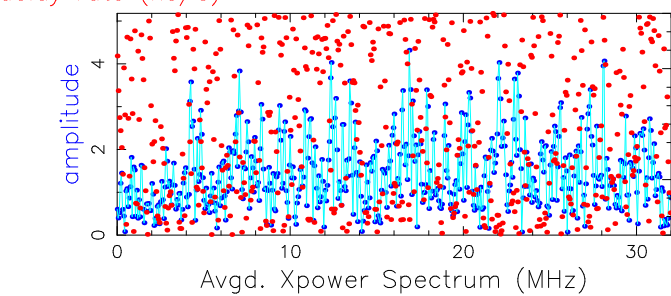
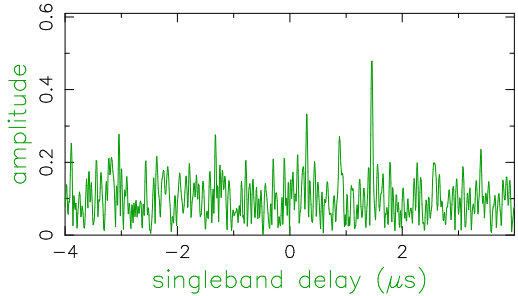
Group delay (usec)(sbd)	-8.30460198853E+03	Apriori delay (usec)	-8.30123685902E+03	Resid mbdelay (usec)	4.35606E-06	+/-	3.4E-03
Sband delay (usec)	-8.30460199152E+03	Apriori clock (usec)	2.9887470E+01	Resid sbdelay (usec)	-3.36513E+00	+/-	3.4E-03
Phase delay (usec)	-8.30123685467E+03	Apriori clockrate (us/s)	7.1655995E-07	Resid phdelay (usec)	4.34355E-06	+/-	7.3E-07
Delay rate (us/s)	1.90978247938E+00	Apriori rate (us/s)	1.90977376501E+00	Resid rate (us/s)	8.71437E-06	+/-	4.2E-09
Total phase (deg)	254.5	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	267.4	+/-	22.6

ph/seg (deg)	90.0	Theor.	193.3	Amplitude	0.565 +/- 0.111	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	382.8	Search (2048X8)	0.430	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.354	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.550	Inc. frq. avg.	0.550	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oi.W.186.0QR3WR



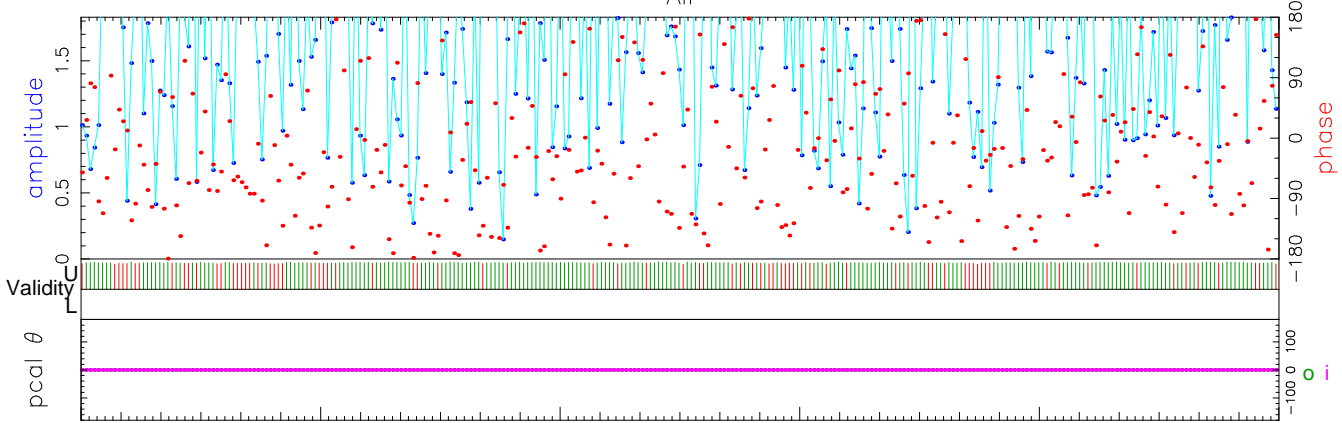
Fringe quality 0
SNR 5.6
Int time 287.955
Amp 0.610
Phase -148.6
PFD 8.6e-01
Delays (us)
SBD 1.457189
MBD 0.000005
Fringe rate (Hz)
0.706606
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-55.1
0.6
699.5
U/L 586/0
o 1000
i 0
oi 0:0
oi 0:0
o 1000
i 1000
o W06UR
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

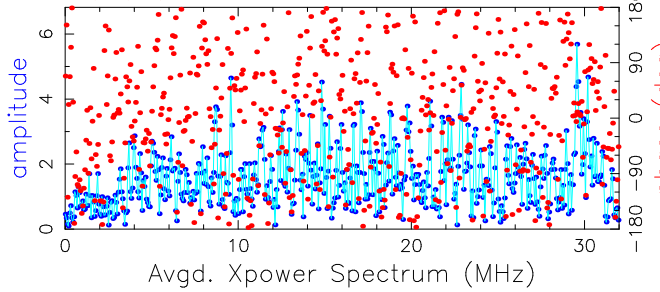
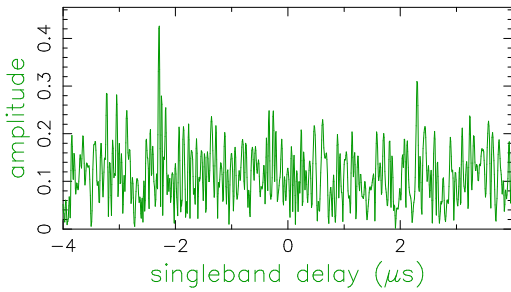
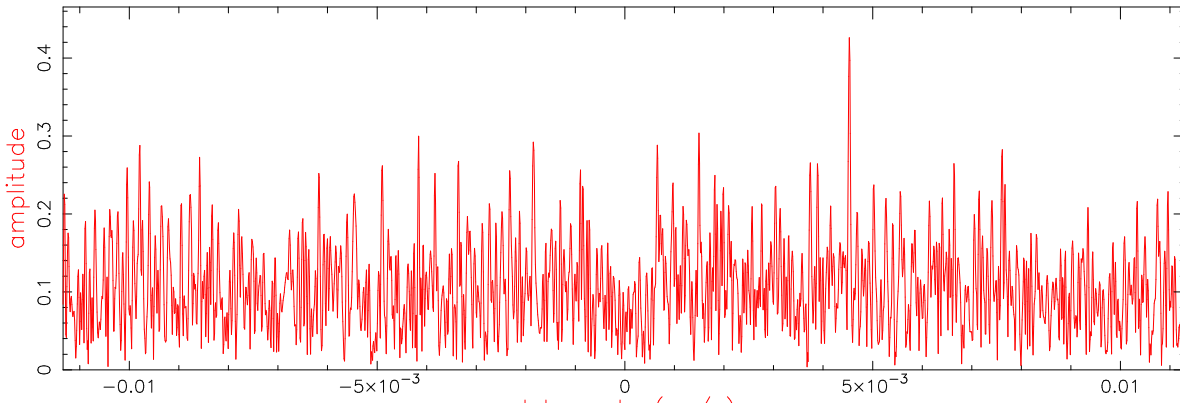
Group delay (usec)(sbd)	-8.29977967072E+03	Apriori delay (usec)	-8.30123685902E+03	Resid mbdelay (usec)	5.33562E-06	+/-	3.1E-03					
Sband delay (usec)	-8.29977967002E+03	Apriori clock (usec)	2.9887470E+01	Resid sbdelay (usec)	1.45719E+00	+/-	3.1E-03					
Phase delay (usec)	-8.30123686079E+03	Apriori clockrate (us/s)	7.1655995E-07	Resid phdelay (usec)	-1.77664E-06	+/-	6.5E-07					
Delay rate (us/s)	1.90978196801E+00	Apriori rate (us/s)	1.90977376501E+00	Resid rate (us/s)	8.20299E-06	+/-	3.8E-09					
Total phase (deg)	-161.5	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	-148.6	+/-	20.3					
RMS	86.8	Theor.	173.6	Amplitude	0.610 +/- 0.108	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
ph/seg (deg)	86.8	Search (2048X8)	0.477	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000				
amp/seg (%)	334.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.409	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011				
amp/frq (%)	1.7	Inc. frq. avg.	0.590	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00	0.00

o: az 85.0 el 20.8 pa -55.7 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oi.W.206.0QR3WR

Fringe quality 0

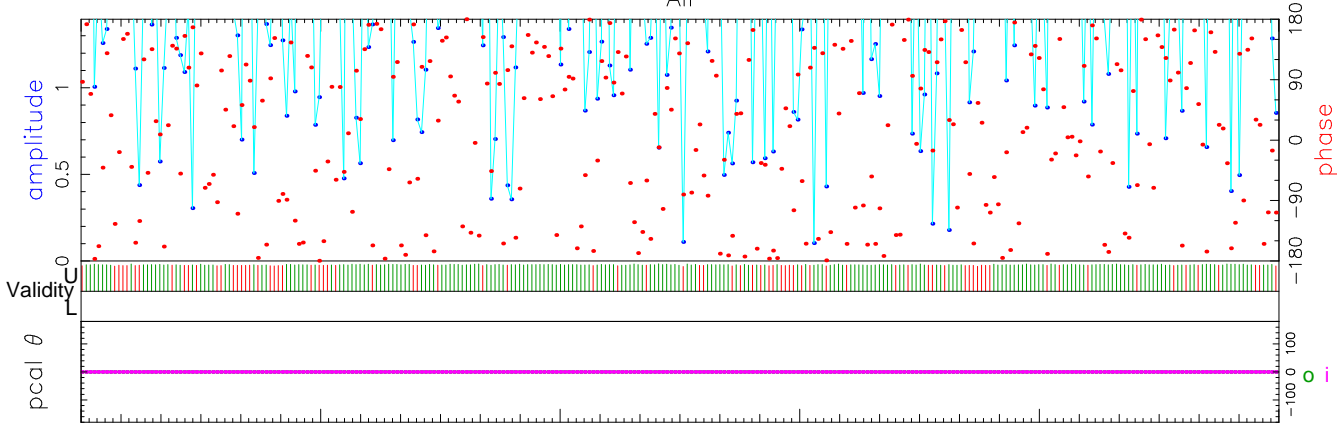
SNR 5.1
Int time 287.953
Amp 0.465
Phase 47.9
PFD 1.0e+00
Delays (us)
SBD -2.292481
MBD 0.000004
Fringe rate (Hz)
0.390066
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



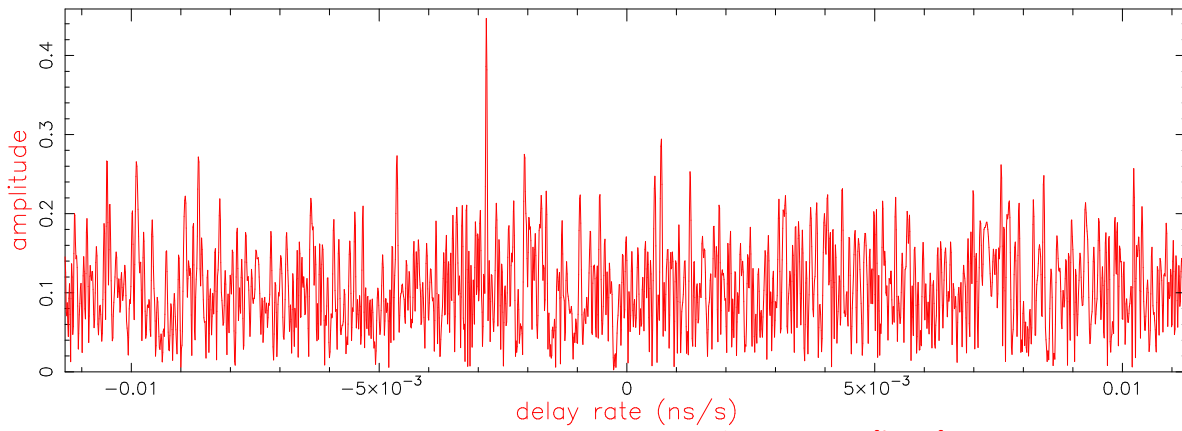
86204.00
149.2
0.5
219.6
U/L 586/0
o 1000
i 0
oi 0:0
oi 0:0
o 1000
i 1000
o W06UL
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.30352933529E+03	Apriori delay (usec)	-8.30123685902E+03	Resid mbdelay (usec)	4.35532E-06	+/-	3.4E-03
Sband delay (usec)	-8.30352934052E+03	Apriori clock (usec)	2.9887470E+01	Resid sbdelay (usec)	-2.29248E+00	+/-	3.4E-03
Phase delay (usec)	-8.30123685421E+03	Apriori clockrate (us/s)	7.1655995E-07	Resid phdelay (usec)	4.81009E-06	+/-	7.3E-07
Delay rate (us/s)	1.90977829329E+00	Apriori rate (us/s)	1.90977376501E+00	Resid rate (us/s)	4.52828E-06	+/-	4.2E-09
Total phase (deg)	35.0	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	47.9	+/-	22.7

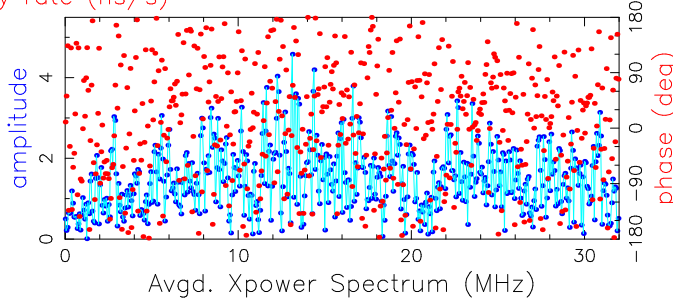
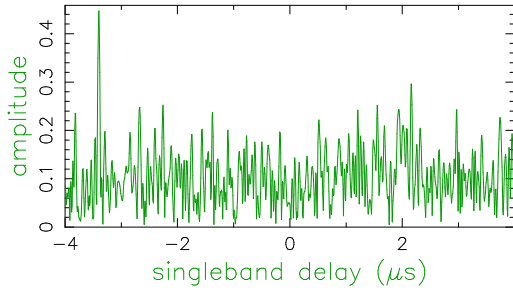
ph/seg (deg)	92.2	Theor.	194.1	Amplitude	0.465 +/- 0.092	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	398.9	Search (2048X8)	0.424	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.301	Inc. seg. avg.	0.301	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.2	Inc. frq. avg.	0.446	Inc. frq. avg.	0.446	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oi.W.228.0QR3WR



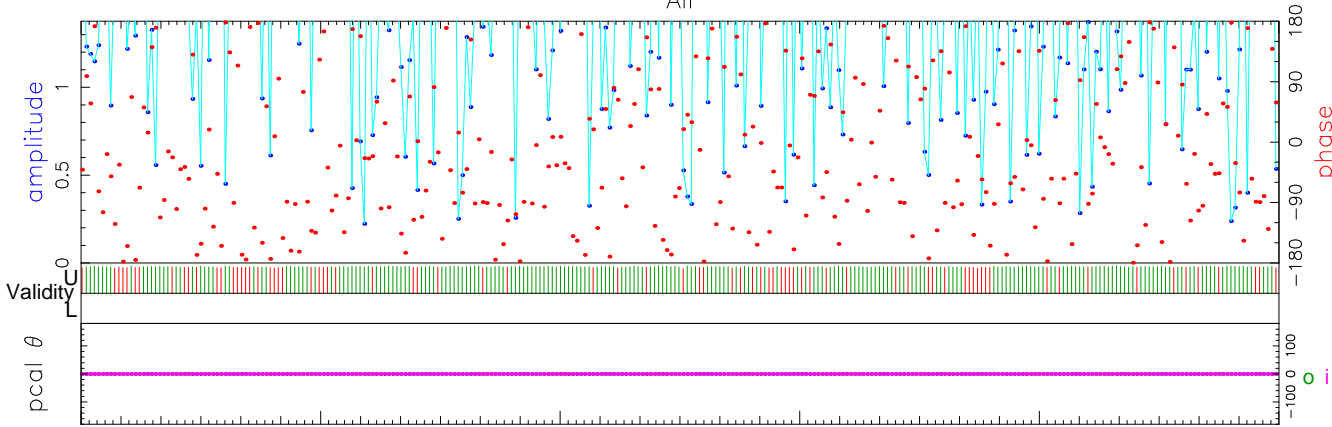
Fringe quality 0

SNR 5.2
 Int time 287.955
 Amp 0.459
 Phase 89.0
 PFD 1.0e+00
 Delays (us)
 SBD -3.398889
 MBD -0.000006
 Fringe rate (Hz)
 -0.244247
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174215
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



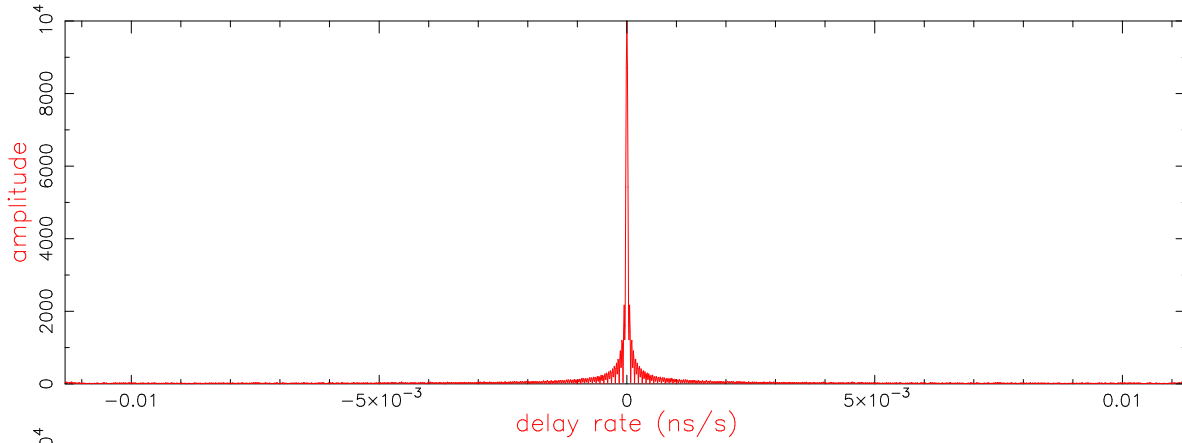
86204.00
 -101.2
 0.5
 77.9
 U/L 586/0
 o 1000
 i 0
 oi 0:0
 oi 0:0
 o 1000
 i 1000
 o W06UR
 i W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-8.30463574400E+03	Apriori delay (usec)	-8.30123685902E+03	Resid mbdelay (usec)	-5.58072E-06	+/- 3.3E-03
Sband delay (usec)	-8.30463574802E+03	Apriori clock (usec)	2.9887470E+01	Resid sbdelay (usec)	-3.39889E+00	+/- 3.3E-03
Phase delay (usec)	-8.30123686228E+03	Apriori clockrate (us/s)	7.1655995E-07	Resid phdelay (usec)	-3.26305E-06	+/- 7.1E-07
Delay rate (us/s)	1.90977092955E+00	Apriori rate (us/s)	1.90977376501E+00	Resid rate (us/s)	-2.83546E-06	+/- 4.1E-09
Total phase (deg)	76.1	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	89.0	+/- 22.1

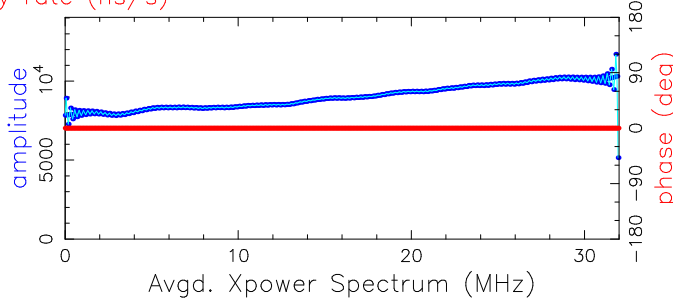
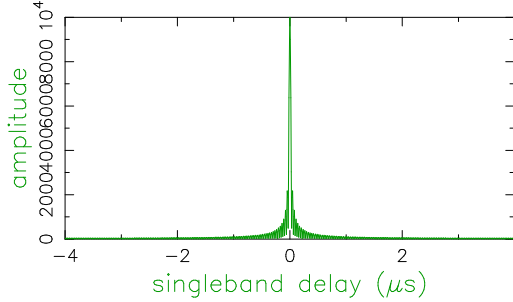
ph/seg (deg)	RMS 92.5	Theor. 189.1	Amplitude 0.459 +/- 0.088	Search (2048X8)	0.443	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	368.9	330.0	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.0	Inc. seg. avg.	0.283		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	19.3	Inc. frq. avg.	0.450		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

o: az 85.0 el 20.8 pa -55.7 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oi.W.238.0QR3WR



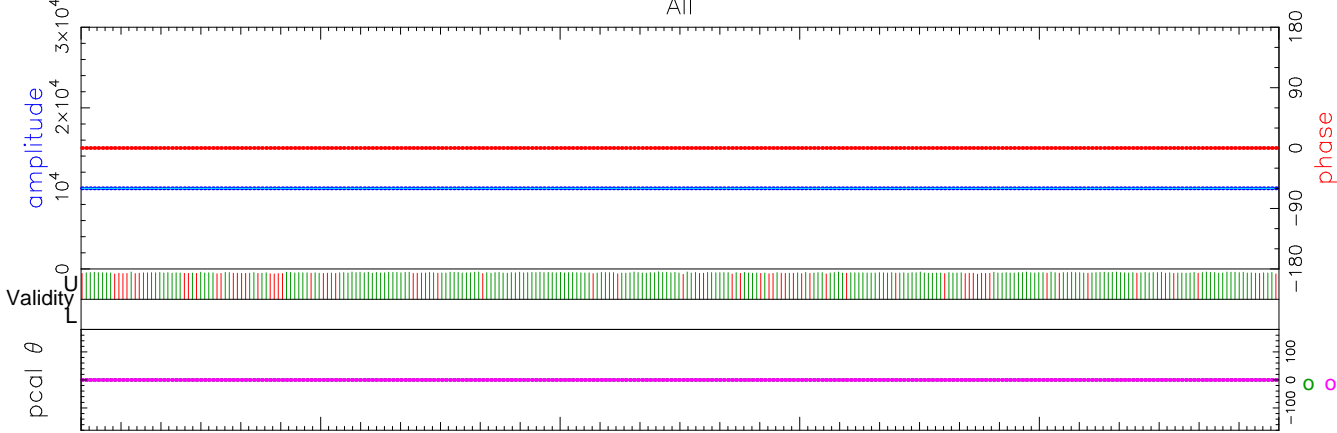
Fringe quality 9

SNR 116111.1
 Int time 288.451
 Amp 10000.000
 Phase -0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000007
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174210
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



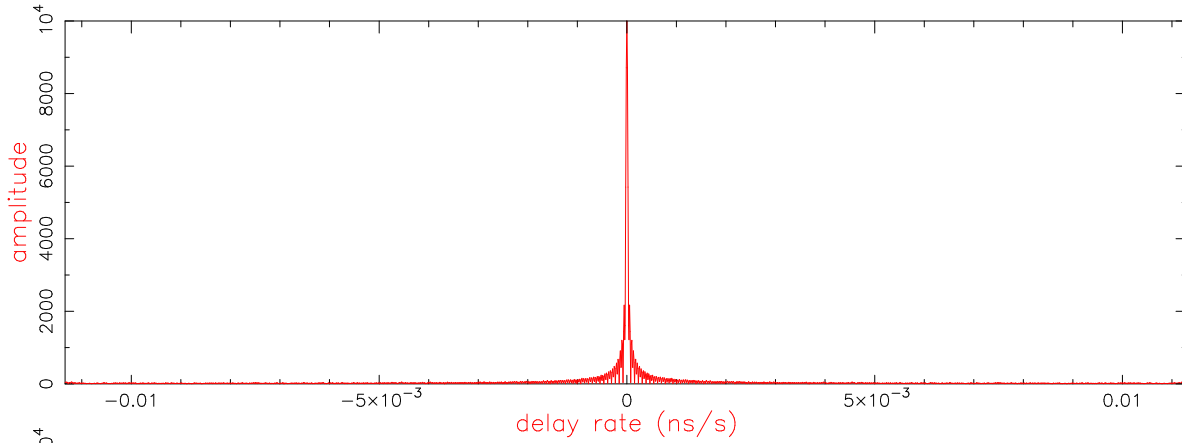
86204.00
 0.2
 10000.0
 513.0
 U/L 586/0
 o 1000
 o 1000
 o: 0:0
 o: 0:0
 o 1000
 o 1000
 o W06UL
 o W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	4.70326202960E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.89713E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.40550521801E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.40551E-09	+/- 3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

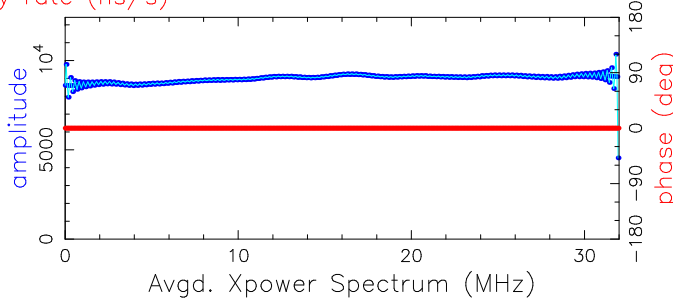
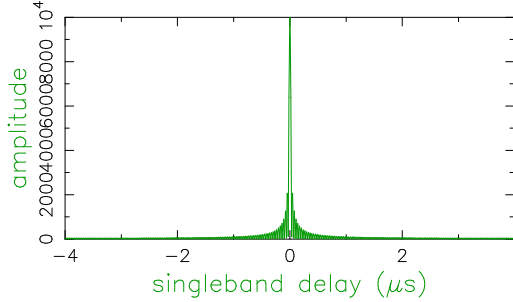
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0		0.0	Search (2048X8)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	10000.000	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

o: az 85.0 el 20.8 pa -55.7 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oo.W.196.0QR3WR



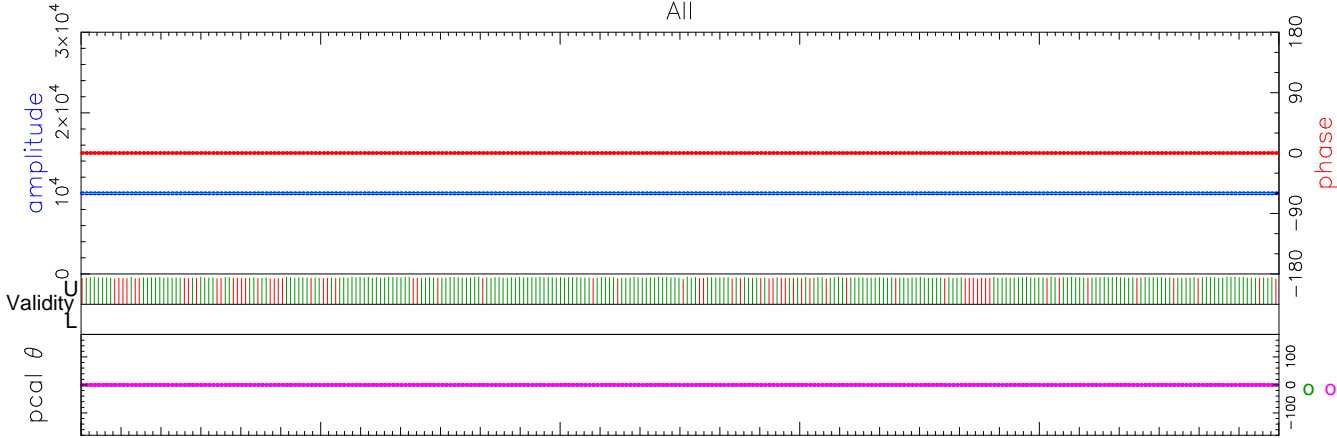
Fringe quality 9

SNR 116110.5
 Int time 288.448
 Amp 10000.000
 Phase 0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000005
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174211
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 0.1
 10000.0
 513.0
 U/L 586/0
 o 1000
 o 1000
 o: 0:0
 o: 0:0
 o 1000
 o 1000
 o W06UR
 o W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-5.01322444434E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.01322E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	4.65588525130E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.65589E-09	+/- 3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.8E-13
Total phase (deg)	0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0		0.0	Search (2048X8)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	10000.000	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

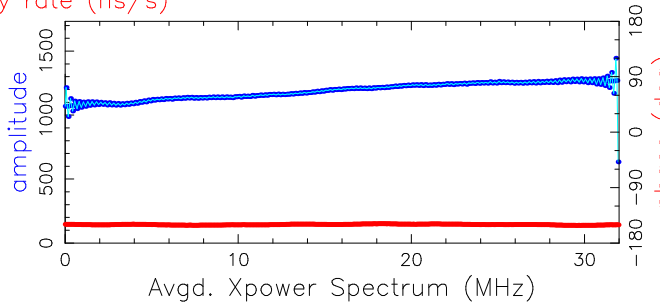
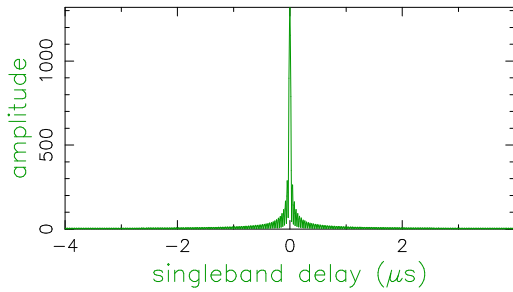
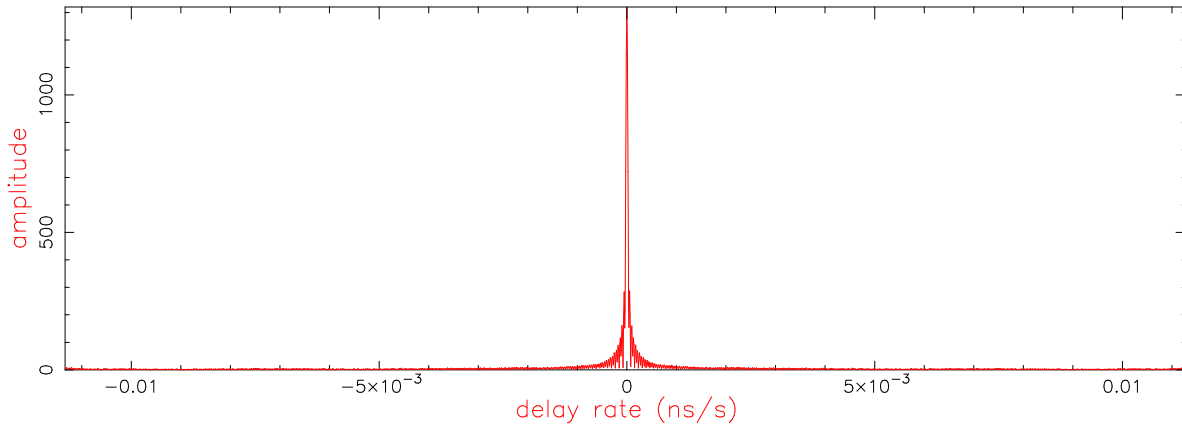
o: az 85.0 el 20.8 pa -55.7 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/oo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/oo.W.208.0QR3WR

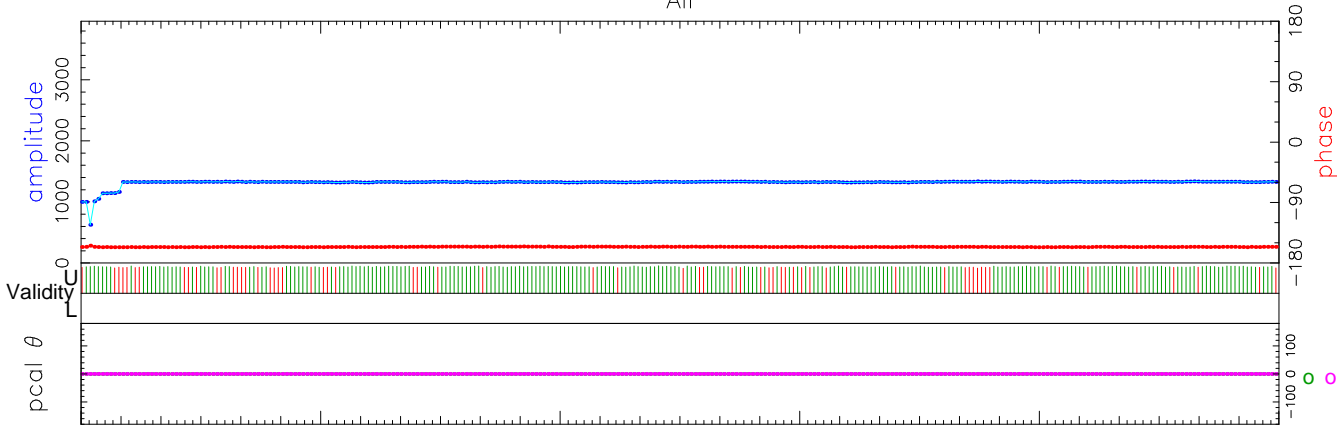
Fringe quality 9

SNR 15329.2
Int time 288.451
Amp 1320.215
Phase -132.5
PFD 0.0e+00
Delays (us)
SBD -0.001027
MBD -0.000007
Fringe rate (Hz)
0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00		Freq (MHz)
-156.0		Phase
1317.9		Ampl.
512.9		Sbd box
U/L 586/0		APs used
o 1000		PC freqs
o 1000		PC freqs
o:0 0:0		PC phase
o:0 0:0		Mani PC
o 1000		PC amp
o 1000		
o W06UL		Chan ids
o		
o W06UR		Chan ids

Group delay (usec)(sbd)	-1.02808419563E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.24990E-06	+/-	1.1E-06
Sband delay (usec)	-1.02650000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.02650E-03	+/-	1.1E-06
Phase delay (usec)	-5.03064042330E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.03064E-06	+/-	2.4E-10
Delay rate (us/s)	8.50269143501E-12	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	8.50269E-12	+/-	1.4E-12
Total phase (deg)	-132.5	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-132.5	+/-	0.0

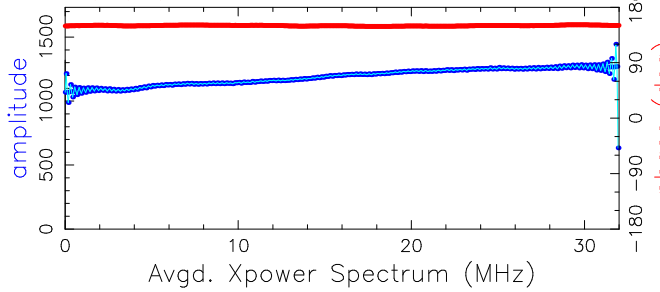
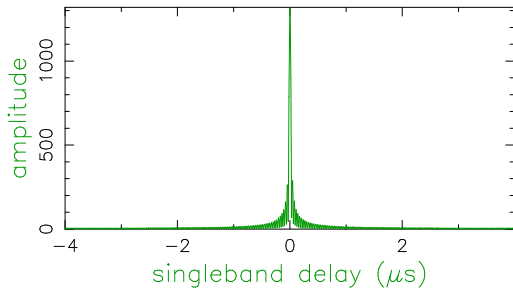
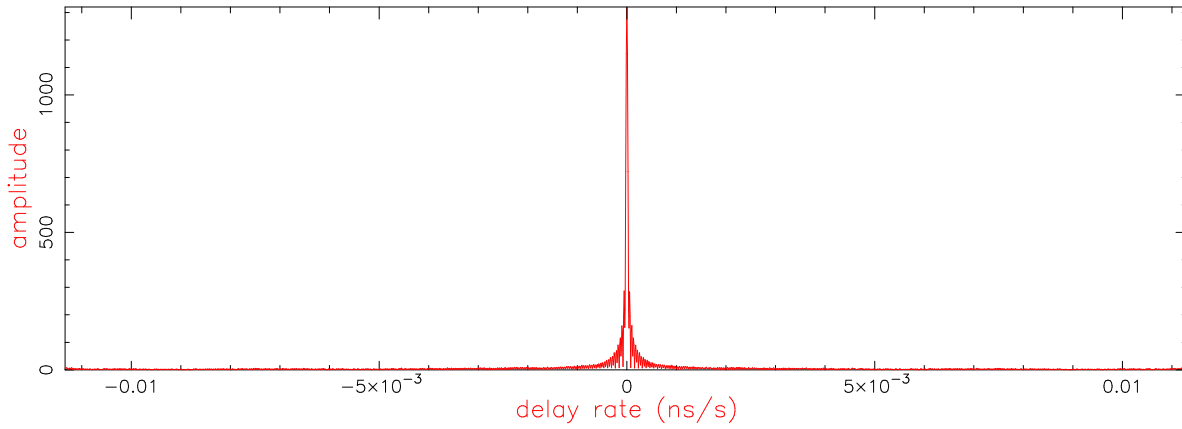
ph/seg (deg)	0.3	0.1	Amplitude	1320.215 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	4.5	0.1	Search (2048X8)	1317.900	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000	
amp/frq (%)	0.2	0.0	Inc. seg. avg.	1317.912	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	1317.900	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 85.0 el 20.8 pa -55.7 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oo.W.227.0QR3WR

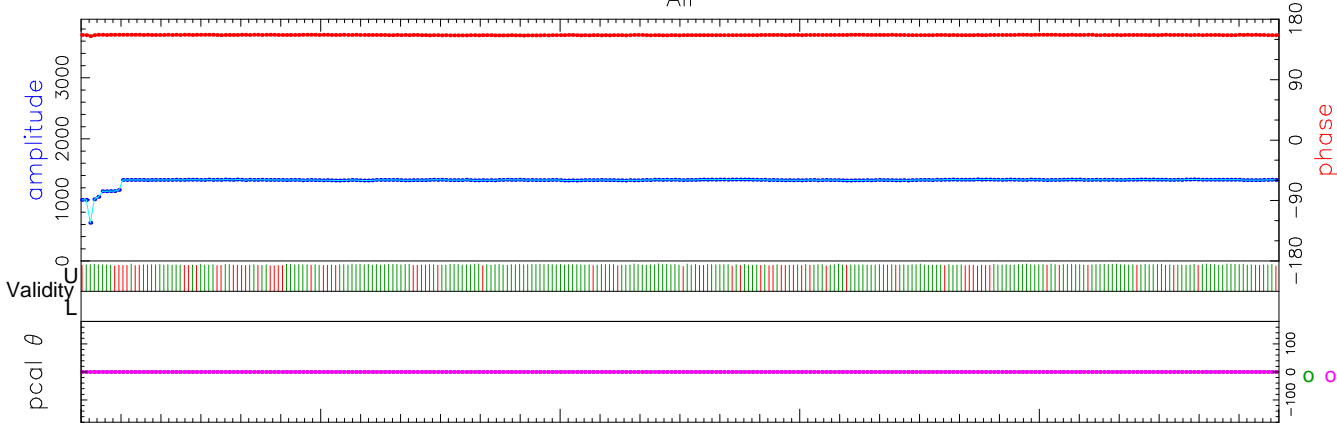
Fringe quality 9

SNR 15329.3
Int time 288.448
Amp 1320.230
Phase 132.6
PFD 0.0e+00
Delays (us)
SBD 0.001027
MBD -0.000005
Fringe rate (Hz)
-0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174215
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

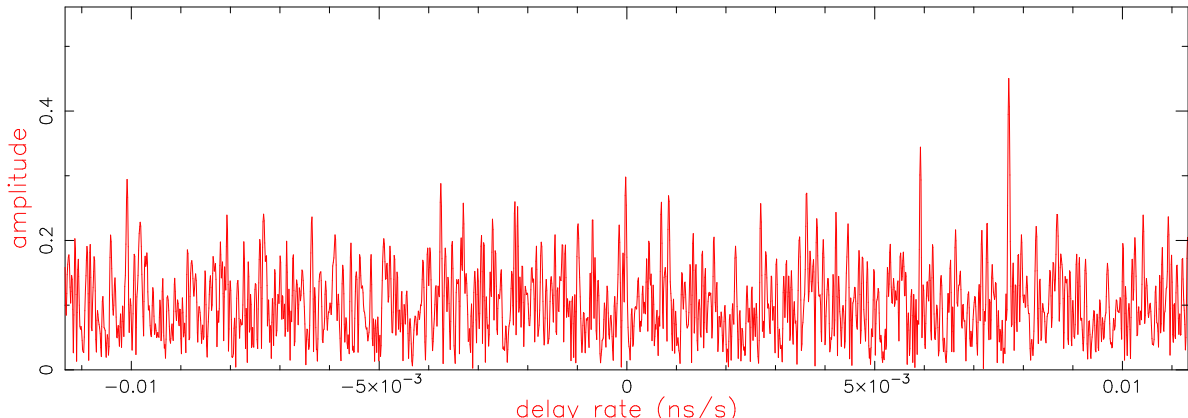


86204.00 Freq (MHz)
156.3 Phase
1317.9 Ampl.
513.1 Sbd box
U/L 586/0 APs used
o 1000 PC freqs
o 1000 PC freqs
o:0 0:0 PC phase
o:0 1000 Mani PC
o 1000 PC amp
o W06UR Chan ids
o W06UL Chan ids

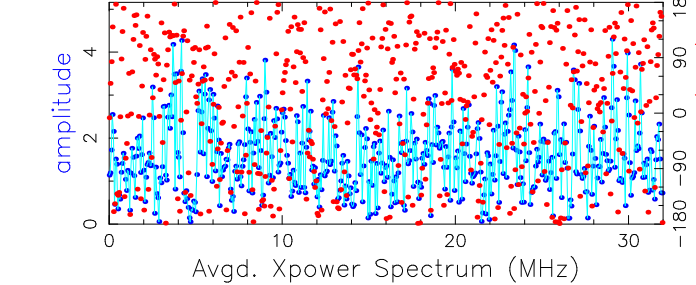
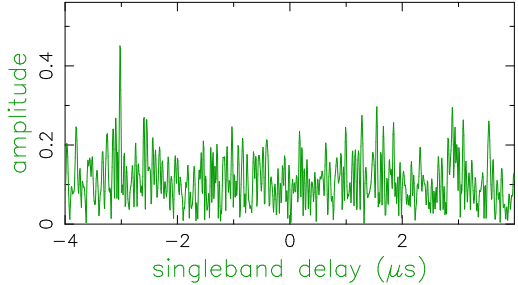
Group delay (usec)(sbd) 1.02766655840E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -4.76813E-06 +/- 1.1E-06
Sband delay (usec) 1.02650000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 1.02650E-03 +/- 1.1E-06
Phase delay (usec) 5.04180181374E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.04180E-06 +/- 2.4E-10
Delay rate (us/s) -8.50269143501E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -8.50269E-12 +/- 1.4E-12
Total phase (deg) 132.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 132.6 +/- 0.0

RMS Theor. Amplitude 1320.230 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.3 0.1 Search (2048X8) 1317.915 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 4.5 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 1317.926 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.2 0.0 Inc. frq. avg. 1317.915 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 85.0 el 20.8 pa -55.7 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oo.W.241.0QR3WR

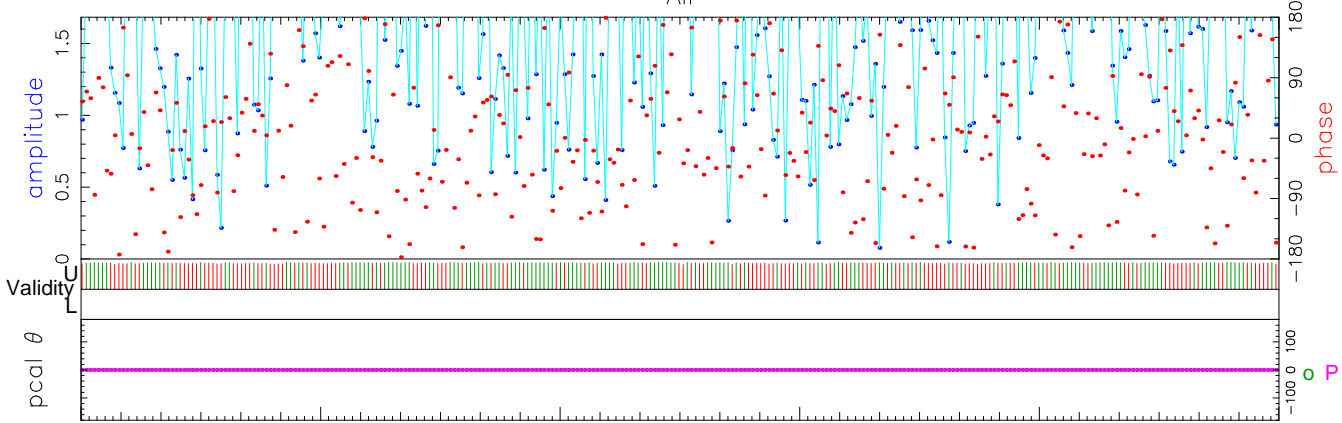


Fringe quality 0
SNR 5.3
Int time 285.012
Amp 0.561
Phase 90.4
PFD 1.0e+00
Delays (us)
SBD -3.020102
MBD 0.000005
Fringe rate (Hz)
0.662796
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174209
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

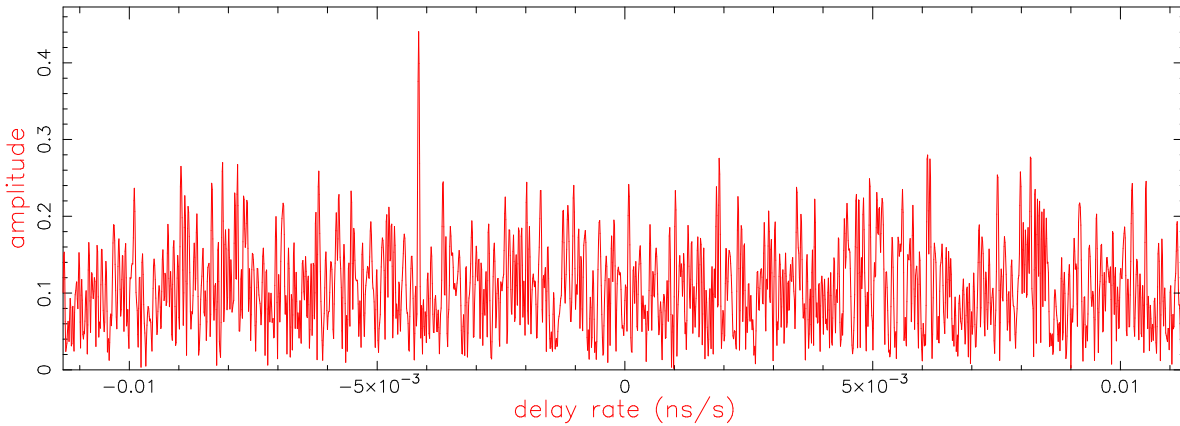


86204.00
-12.8
0.5
126.4
U/L 586/0
o 1000
P 0
o:P 0:0
o:P 0:0
P o 1000
P 1000
o W06UL
P W06UL

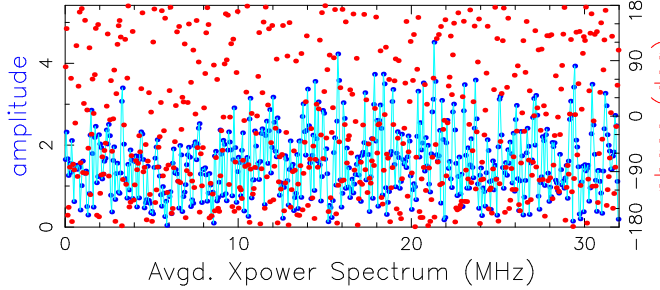
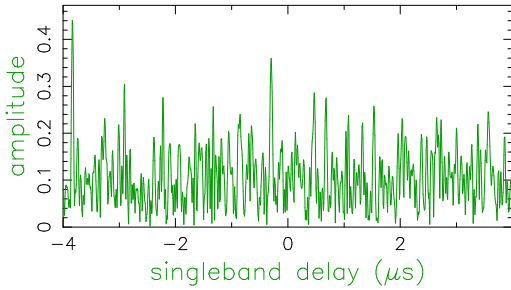
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.30474126718E+03	Apriori delay (usec)	-8.30172116902E+03	Resid mbdelay (usec)	5.31270E-06	+/-	3.2E-03
Sband delay (usec)	-8.30474127052E+03	Apriori clock (usec)	2.9403162E+01	Resid sbdelay (usec)	-3.02010E+00	+/-	3.2E-03
Phase delay (usec)	-8.30172116943E+03	Apriori clockrate (us/s)	9.1656001E-07	Resid phdelay (usec)	-4.11176E-07	+/-	7.0E-07
Delay rate (us/s)	1.90978165942E+00	Apriori rate (us/s)	1.90977396501E+00	Resid rate (us/s)	7.69441E-06	+/-	4.0E-09
Total phase (deg)	270.7	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	90.4	+/-	21.6
ph/seg (deg)	RMS 90.6	Theor. 184.5	Amplitude 0.561 +/- 0.106	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000 4.000
amp/seg (%)	355.8	322.0	Search (2048X8) 0.450	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	mb window (us)	-0.000 0.000	
ph/frq (deg)	0.0	10.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
amp/frq (%)	2.2	18.8	Inc. seg. avg. 0.357	Sample rate(MSamp/s): 64	Data rate(Mb/s): 128	ion window (TEC)	0.00 0.00
				nlags: 512	t_cohere infinite		
o: az 85.0 el 20.8 pa -55.7				P: az 249.4 el 49.9 pa 50.8		u,v (fr/asec) -11334.459 1088.680	
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oP.W.183.0QR3WR							

Fringe quality 0

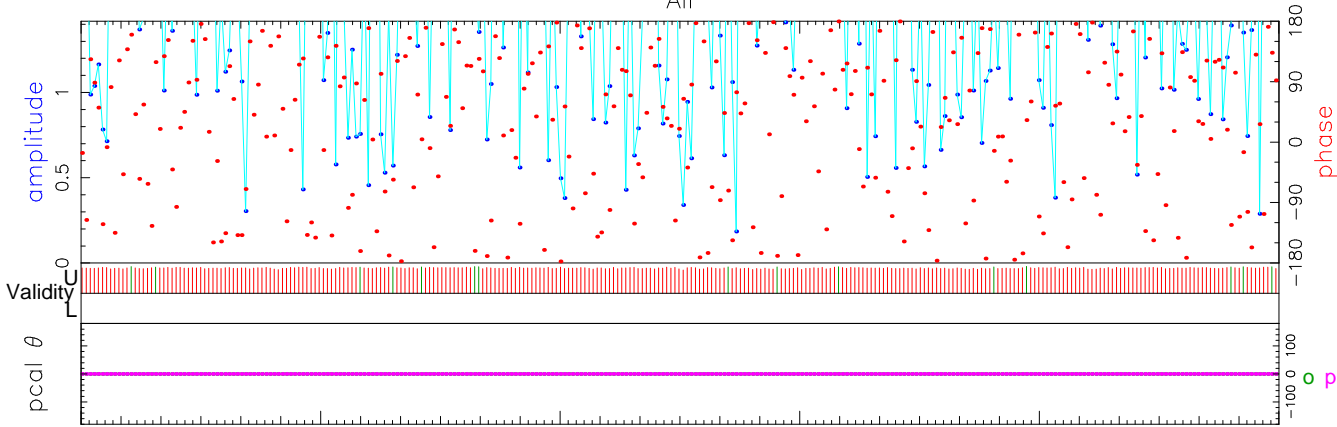


SNR 5.1
 Int time 275.474
 Amp 0.473
 Phase 239.5
 PFD 1.0e+00
 Delays (us)
 SBD -3.832661
 MBD -0.000005
 Fringe rate (Hz)
 -0.358633
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174209
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



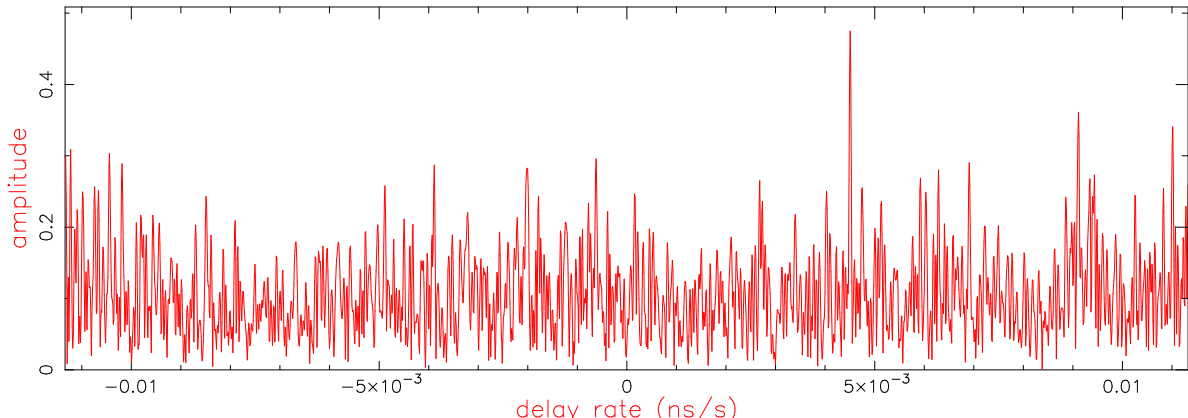
86204.00
 135.2
 0.5
 22.4
 U/L 586/0
 o 1000
 p 1000
 o:p 0:0
 o:p 0:0
 o 1000
 p 1000
 o W06UL
 p W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

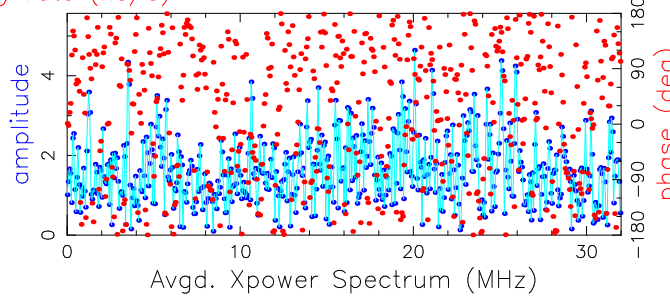
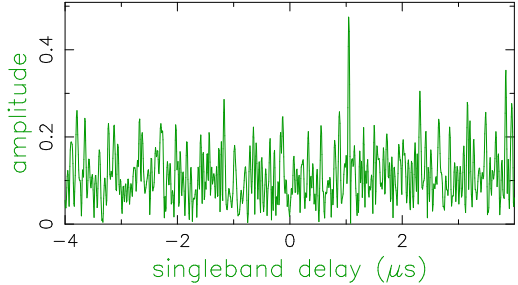
Group delay (usec)(sbd)	-2.72902517652E+03	Apriori delay (usec)	-2.72519251840E+03	Resid mbdelay (usec)	-5.34667E-06	+/-	3.4E-03
Sband delay (usec)	-2.72902517990E+03	Apriori clock (usec)	-1.9793634E+00	Resid sbdelay (usec)	-3.83266E+00	+/-	3.4E-03
Phase delay (usec)	-2.72519251404E+03	Apriori clockrate (us/s)	4.7455995E-07	Resid phdelay (usec)	4.35947E-06	+/-	7.3E-07
Delay rate (us/s)	3.15452665598E-02	Apriori rate (us/s)	3.15494299353E-02	Resid rate (us/s)	-4.16338E-06	+/-	4.2E-09
Total phase (deg)	46.9	Apriori accel (us/s/s)	1.57861796184E-05	Resid phase (deg)	239.5	+/-	22.6

ph/seg (deg)	RMS 90.7	Theor. 193.4	Amplitude 0.473 +/- 0.093	Search (2048X8)	0.439	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	375.3	337.5	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.3	Inc. seg. avg.	0.294		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	1.4	19.7	Inc. frq. avg.	0.457		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00	
				u,v (fr/asec)	-168.059 714.198	Data rate(Mb/s): 128	nlags: 512	t_cohere	infinite	simultaneous interpolator	

o: az 85.0 el 20.8 pa -55.7 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -168.059 714.198 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//op..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//op.W.188.0QR3WR



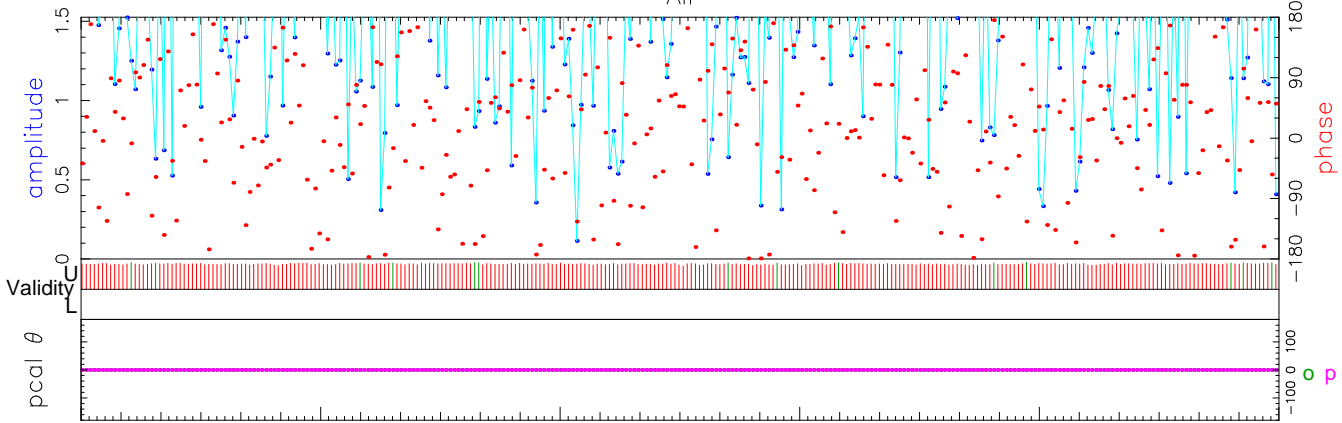
Fringe quality 0
SNR 5.4
Int time 275.469
Amp 0.509
Phase -352.9
PFD 1.0e+00
Delays (us)
SBD 1.048254
MBD 0.000007
Fringe rate (Hz)
0.388306
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



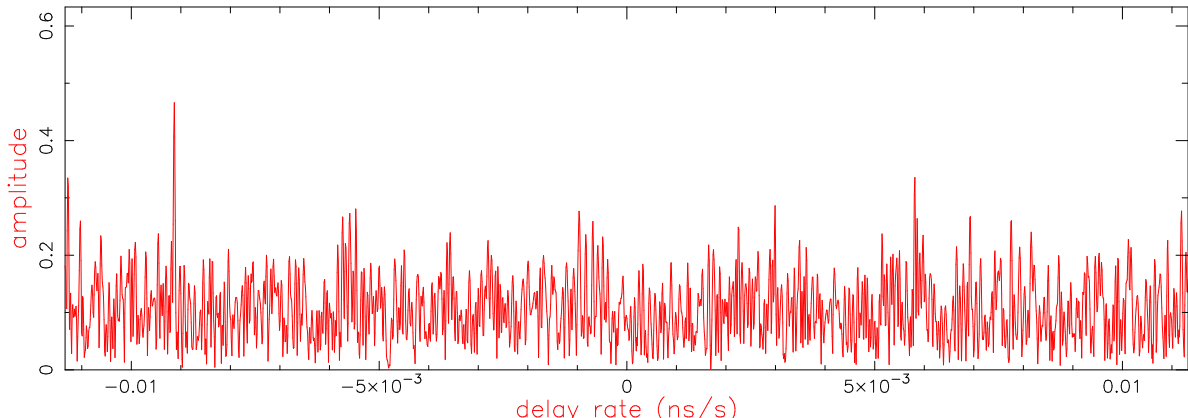
86204.00
38.7
0.5
647.2
U/L 586/0
o 1000
p 1000
o:p 0:0
o:p 0:0
o 1000
p 1000
o W06UR
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

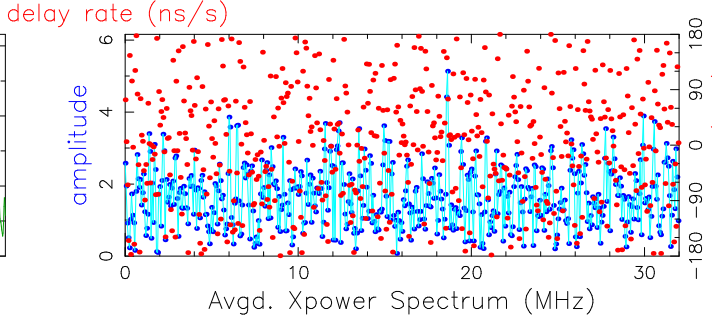
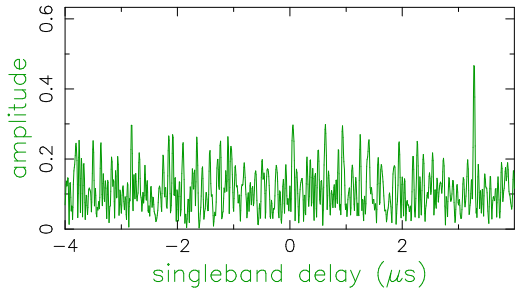
Group delay (usec)(sbd)	-2.72414426513E+03	Apriori delay (usec)	-2.72519251840E+03	Resid mbdelay (usec)	7.24734E-06	+/-	3.2E-03
Sband delay (usec)	-2.72414426390E+03	Apriori clock (usec)	-1.9793634E+00	Resid sbdelay (usec)	1.04825E+00	+/-	3.2E-03
Phase delay (usec)	-2.72519251715E+03	Apriori clockrate (us/s)	4.7455995E-07	Resid phdelay (usec)	1.24746E-06	+/-	6.8E-07
Delay rate (us/s)	3.15539377824E-02	Apriori rate (us/s)	3.15494299353E-02	Resid rate (us/s)	4.50785E-06	+/-	3.9E-09
Total phase (deg)	-185.5	Apriori accel (us/s/s)	1.57861796184E-05	Resid phase (deg)	-352.9	+/-	21.2

ph/seg (deg)	92.0	Theor.	181.5	Amplitude	0.509 +/- 0.094	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	373.7	Search (2048X8)	0.469	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.347	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.3	Inc. frq. avg.	0.498	Inc. frq. avg.	0.498	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -168.059 714.198 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//op..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//op.W.203.0QR3WR



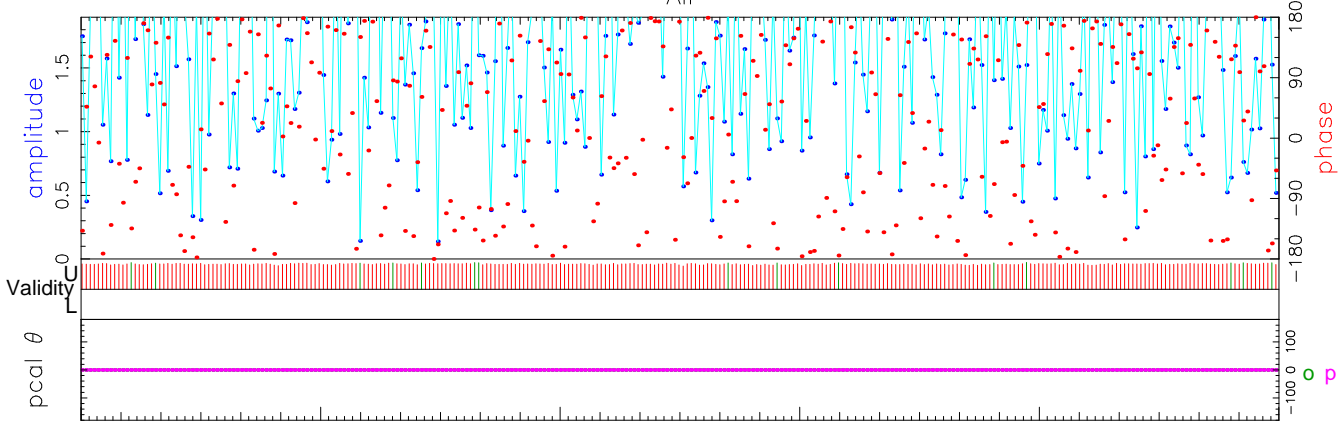
Fringe quality 0
SNR 5.4
Int time 275.466
Amp 0.633
Phase -100.3
PFD 1.0e+00
Delays (us)
SBD 3.277195
MBD -0.000005
Fringe rate (Hz)
-0.786623
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
166.5
0.6
932.5
U/L 586/0
o 1000
p 1000
o:p 0:0
o:p 0:0
o 1000
p 1000
o W06UL
p W06UR

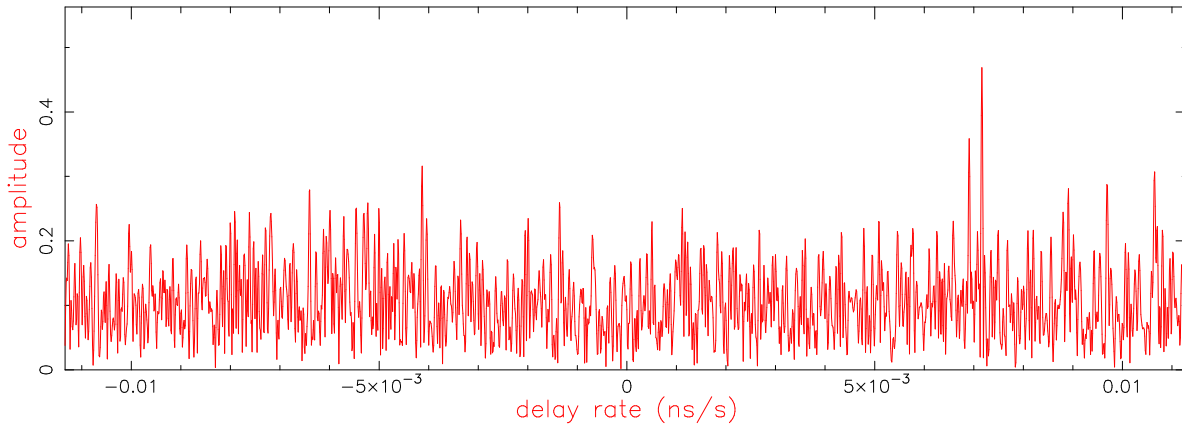
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.72191532094E+03	Apriori delay (usec)	-2.72519251840E+03	Resid mbdelay (usec)	-5.44931E-06	+/-	3.2E-03
Sband delay (usec)	-2.72191532290E+03	Apriori clock (usec)	-1.9793634E+00	Resid sbdelay (usec)	3.27720E+00	+/-	3.2E-03
Phase delay (usec)	-2.72519251303E+03	Apriori clockrate (us/s)	4.7455995E-07	Resid phdelay (usec)	5.36803E-06	+/-	6.8E-07
Delay rate (us/s)	3.15402980270E-02	Apriori rate (us/s)	3.15494299353E-02	Resid rate (us/s)	-9.13191E-06	+/-	3.9E-09
Total phase (deg)	-292.9	Apriori accel (us/s/s)	1.57861796184E-05	Resid phase (deg)	-100.3	+/-	21.2

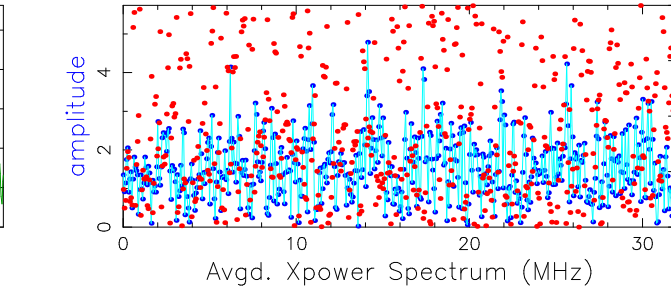
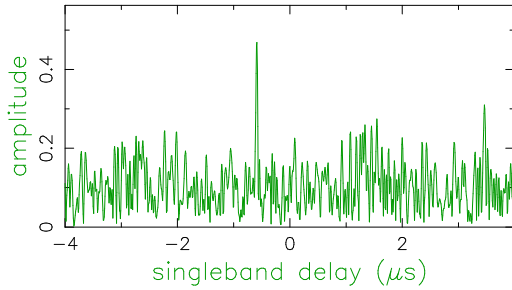
ph/seg (deg)	90.6	Theor.	181.1	Amplitude	0.633 +/- 0.117	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	338.7	Search (2048X8)	0.461	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.398	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.3	Inc. frq. avg.	0.608	Inc. frq. avg.	0.608	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -168.059 714.198 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/op..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/op.W.213.0QR3WR

Fringe quality 0

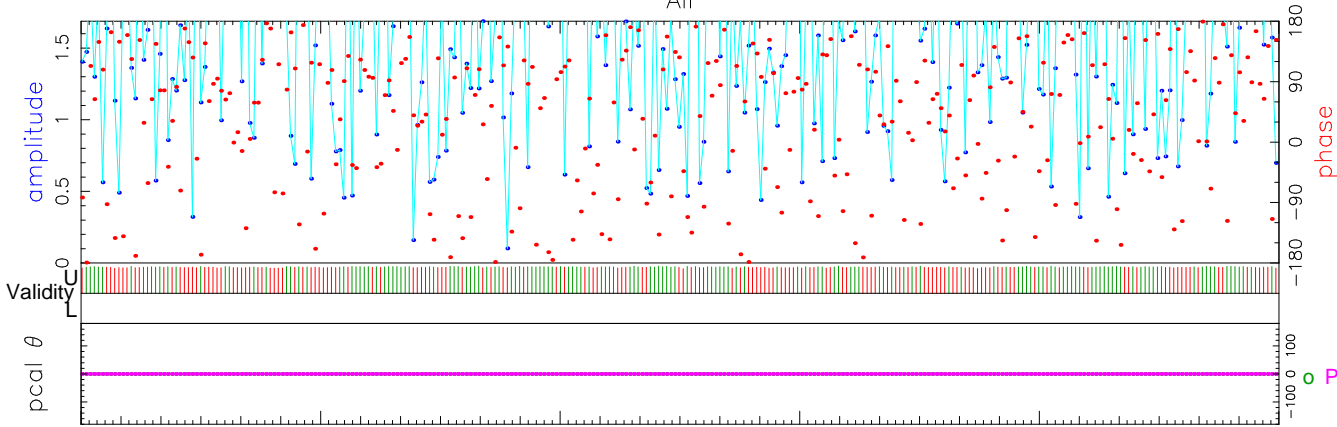


SNR 5.5
Int time 285.014
Amp 0.563
Phase 359.8
PFD 9.9e-01
Delays (us)
SBD -0.589019
MBD 0.000006
Fringe rate (Hz)
0.616708
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
108.8
0.6
437.6
U/L 586/0
o 1000
P 0
o:P 0:0
o:P 0:0
o 1000
P 1000
o W06UR
P W06UR

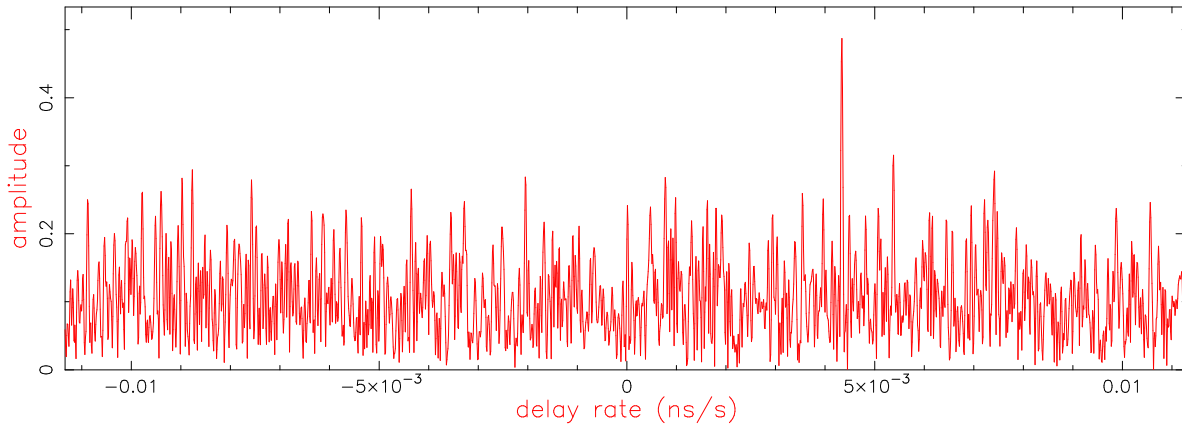
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.30231018488E+03	Apriori delay (usec)	-8.30172116902E+03	Resid mbdelay (usec)	5.53162E-06	+/-	3.1E-03
Sband delay (usec)	-8.30231018852E+03	Apriori clock (usec)	2.9403162E+01	Resid sbdelay (usec)	-5.89019E-01	+/-	3.1E-03
Phase delay (usec)	-8.30172116551E+03	Apriori clockrate (us/s)	9.1656001E-07	Resid phdelay (usec)	3.50793E-06	+/-	6.7E-07
Delay rate (us/s)	1.90978112438E+00	Apriori rate (us/s)	1.90977396501E+00	Resid rate (us/s)	7.15937E-06	+/-	3.9E-09
Total phase (deg)	180.1	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	359.8	+/-	20.9

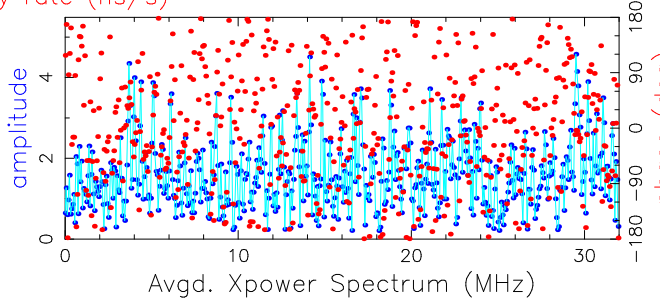
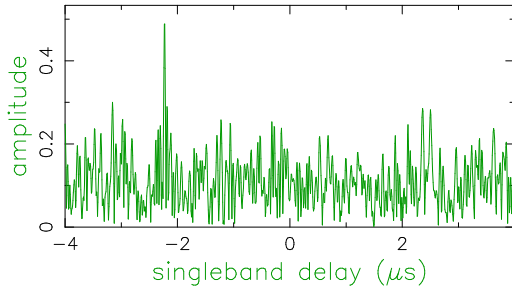
ph/seg (deg)	90.0	Theor.	178.9	Amplitude	0.563 +/- 0.103	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	339.5	Search (2048X8)	0.460	Search (2048X8)	0.460	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.3	Inc. seg. avg.	0.365	Inc. seg. avg.	0.365	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.546	Inc. frq. avg.	0.546	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

o: az 85.0 el 20.8 pa -55.7 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oP.W.216.0QR3WR

Fringe quality 0



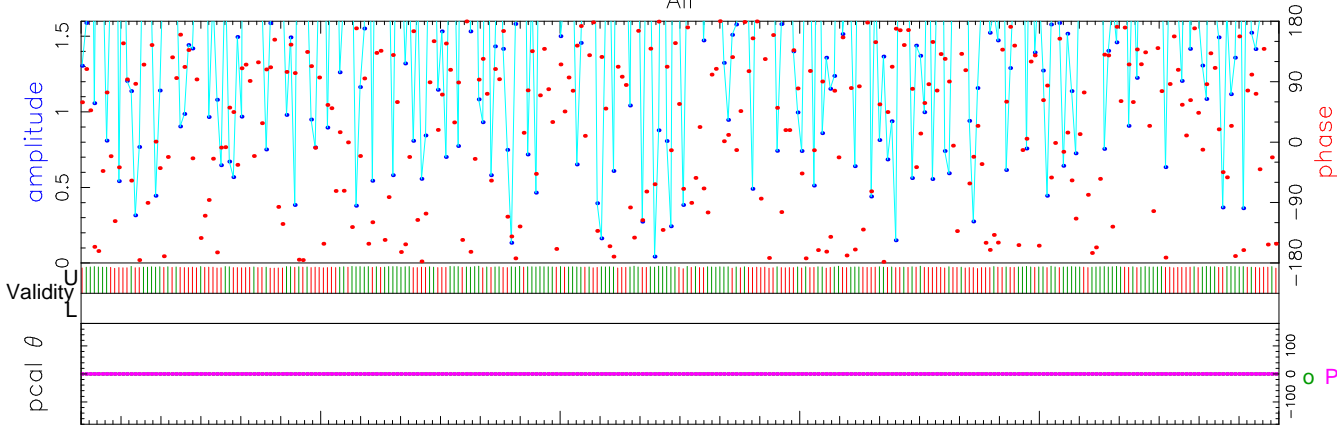
SNR 5.8
Int time 285.012
Amp 0.533
Phase 43.3
PFD 5.8e-01
Delays (us)
SBD -2.230341
MBD 0.000007
Fringe rate (Hz)
0.373148
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
136.1
0.5
227.5
U/L 586/0
o 1000
P 0
o:P 0:0
o:P 0:0
o 1000
P 1000
o W06UL
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.30395151081E+03	Apriori delay (usec)	-8.30172116902E+03	Resid mbdelay (usec)	7.15155E-06	+/-	3.0E-03
Sband delay (usec)	-8.30395151052E+03	Apriori clock (usec)	2.9403162E+01	Resid sbdelay (usec)	-2.23034E+00	+/-	3.0E-03
Phase delay (usec)	-8.30172116463E+03	Apriori clockrate (us/s)	9.1656001E-07	Resid phdelay (usec)	4.38848E-06	+/-	6.4E-07
Delay rate (us/s)	1.90977829689E+00	Apriori rate (us/s)	1.90977396501E+00	Resid rate (us/s)	4.33188E-06	+/-	3.7E-09
Total phase (deg)	223.6	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	43.3	+/-	19.8

ph/seg (deg)	RMS 90.4	Theor. 169.3	Amplitude 0.533 +/- 0.092	Search (2048X8) 0.486	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	331.6	295.5	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	9.9	Inc. seg. avg. 0.362	0.362	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	3.0	17.3	Inc. frq. avg. 0.510	0.510	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

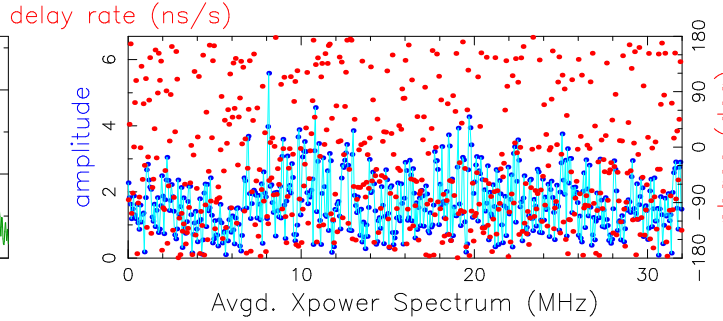
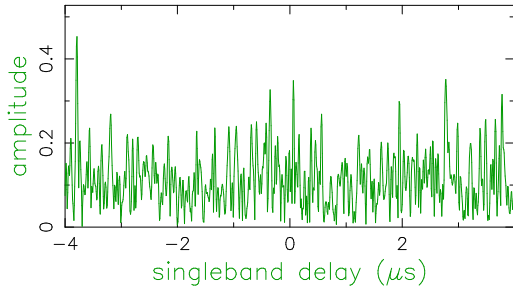
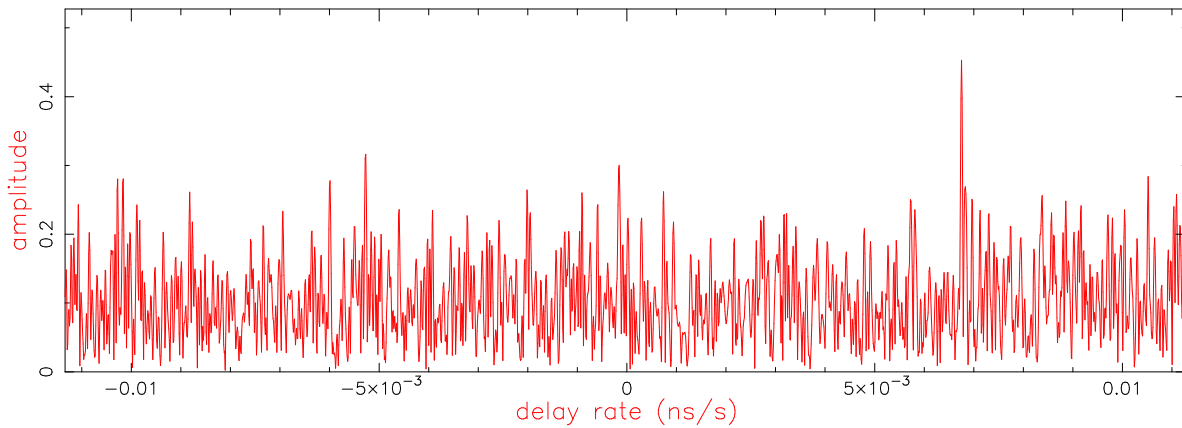
o: az 85.0 el 20.8 pa -55.7 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oP.W.231.0QR3WR

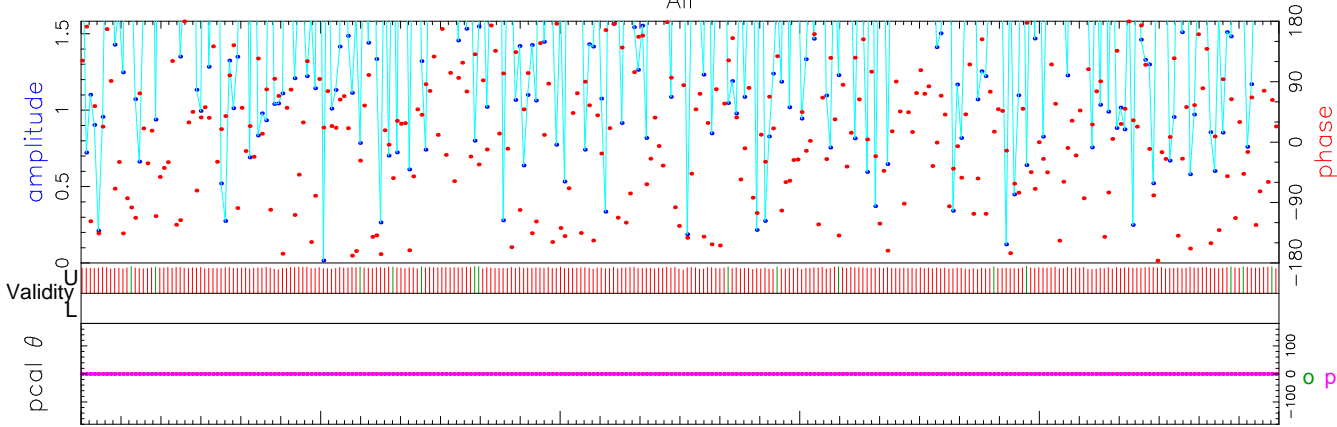
Fringe quality 0

SNR 5.2
Int time 275.477
Amp 0.527
Phase 237.3
PFD 1.0e+00
Delays (us)
SBD -3.790329
MBD 0.000004
Fringe rate (Hz)
0.580888
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174215
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
28.0
0.5
27.8
U/L 586/0
o 1000
p 1000
o:p 0:0
o:p 0:0
o 1000
p 1000
o W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.72898284860E+03	Apriori delay (usec)	-2.72519251840E+03	Resid mbdelay (usec)	4.35038E-06	+/-	3.3E-03
Sband delay (usec)	-2.72898284790E+03	Apriori clock (usec)	-1.9793634E+00	Resid sbdelay (usec)	-3.79033E+00	+/-	3.3E-03
Phase delay (usec)	-2.72519251750E+03	Apriori clockrate (us/s)	4.7455995E-07	Resid phdelay (usec)	9.01492E-07	+/-	7.2E-07
Delay rate (us/s)	3.15561734688E-02	Apriori rate (us/s)	3.15494299353E-02	Resid rate (us/s)	6.74353E-06	+/-	4.1E-09
Total phase (deg)	44.7	Apriori accel (us/s/s)	1.57861796184E-05	Resid phase (deg)	237.3	+/-	22.2

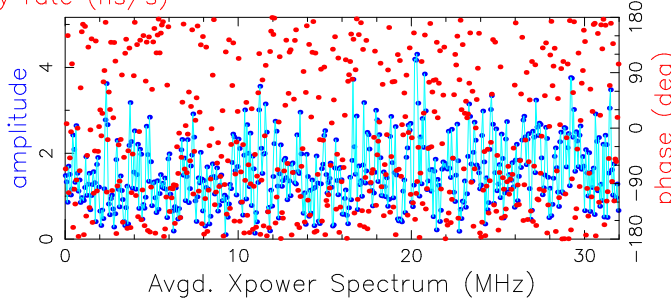
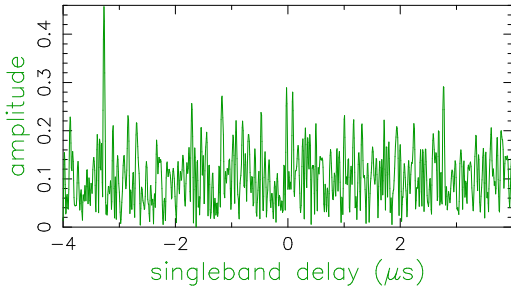
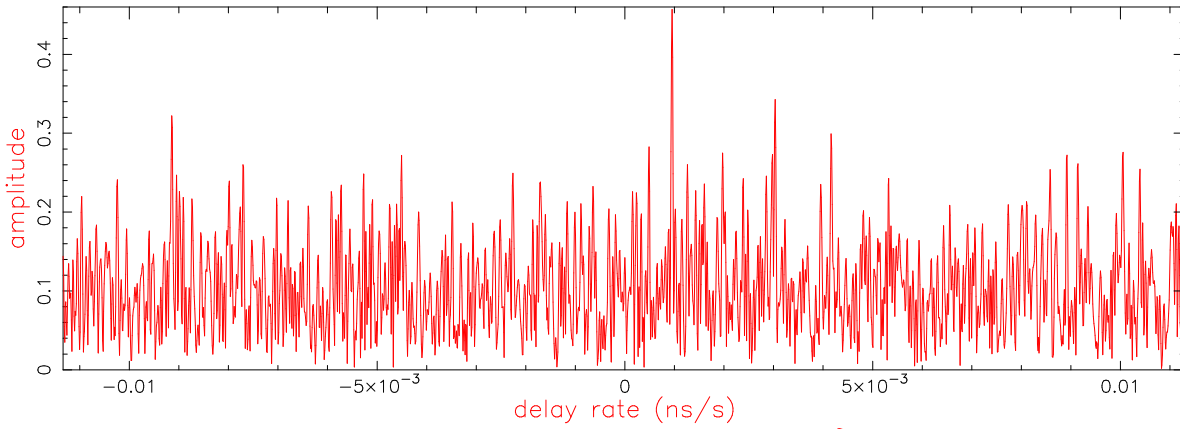
ph/seg (deg)	92.8	Theor.	190.4	Amplitude	0.527 +/- 0.102	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	371.6	Search (2048X8)	0.450	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.328	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.517	Inc. frq. avg.	0.517	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) -168.059 714.198 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//op..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//op.W.239.0QR3WR

Fringe quality 0

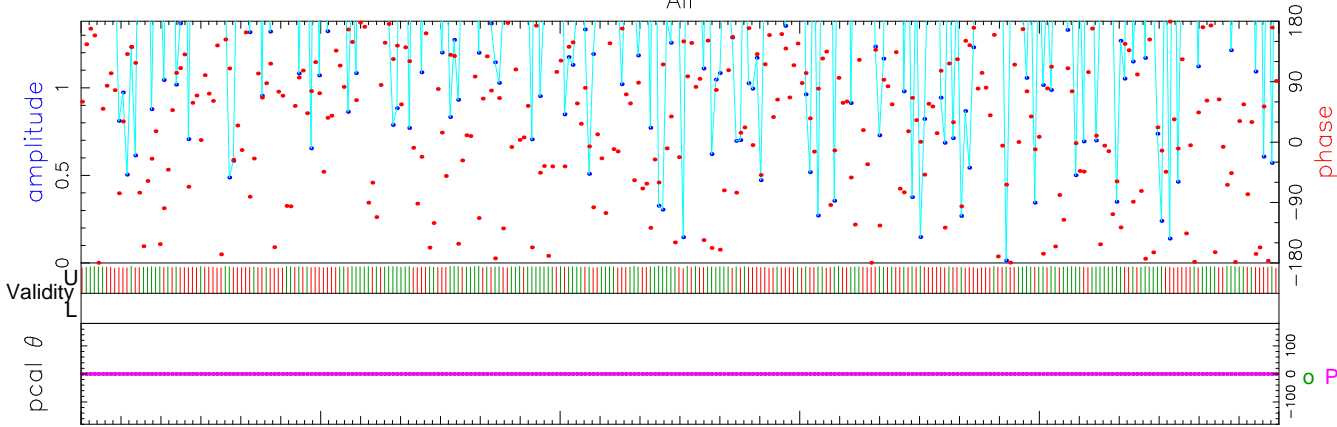
SNR 5.3
Int time 285.014
Amp 0.460
Phase 236.8
PFD 1.0e+00
Delays (us)
SBD -3.271970
MBD 0.000007
Fringe rate (Hz)
0.081968
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
90.6
0.5
94.2
U/L 586/0
o 1000
P 0
o:P 0:0
o:P 0:0
o 1000
P 1000
o W06UR
P W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.30499313332E+03	Apriori delay (usec)	-8.30172116902E+03	Resid mbdelay (usec)	6.83226E-06	+/-	3.3E-03
Sband delay (usec)	-8.30499313852E+03	Apriori clock (usec)	2.9403162E+01	Resid sbdelay (usec)	-3.27197E+00	+/-	3.3E-03
Phase delay (usec)	-8.30172116610E+03	Apriori clockrate (us/s)	9.1656001E-07	Resid phdelay (usec)	2.92135E-06	+/-	7.0E-07
Delay rate (us/s)	1.90977491658E+00	Apriori rate (us/s)	1.90977396501E+00	Resid rate (us/s)	9.51567E-07	+/-	4.0E-09
Total phase (deg)	57.1	Apriori accel (us/s/s)	4.43676541386E-05	Resid phase (deg)	236.8	+/-	21.6

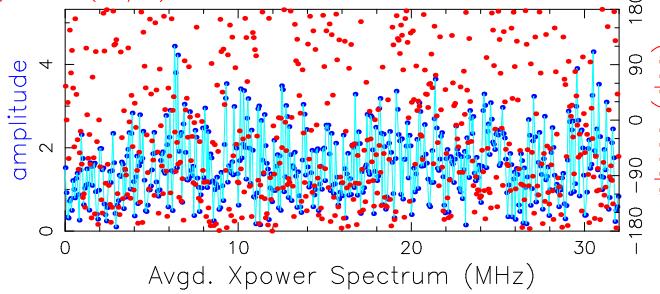
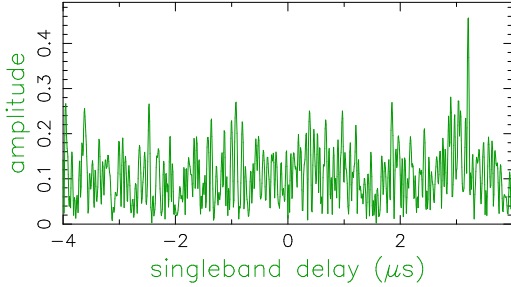
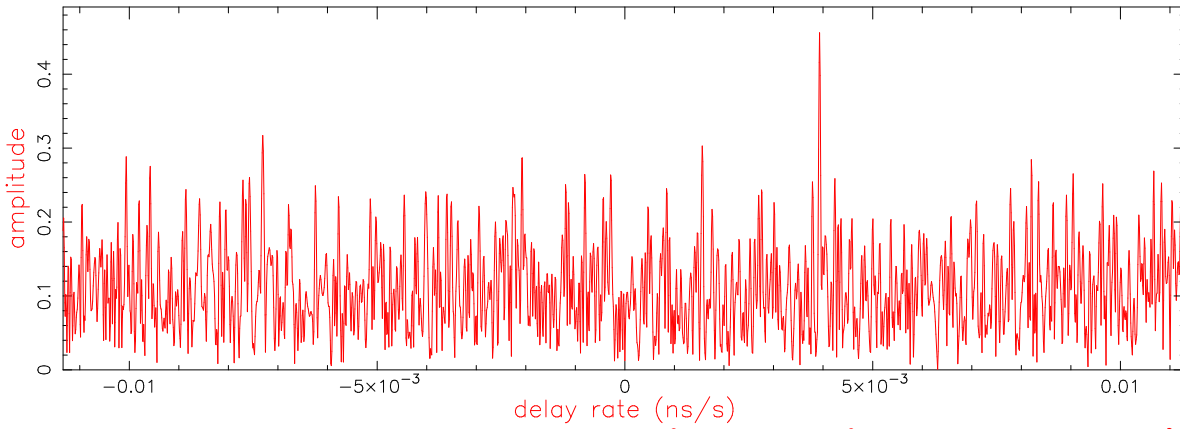
ph/seg (deg)	90.4	Theor.	185.2	Amplitude	0.460 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	365.2	Search (2048X8)	0.454	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.297	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.450	Inc. frq. avg.	0.450	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11334.459 1088.680 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oP.W.252.0QR3WR

Fringe quality 0

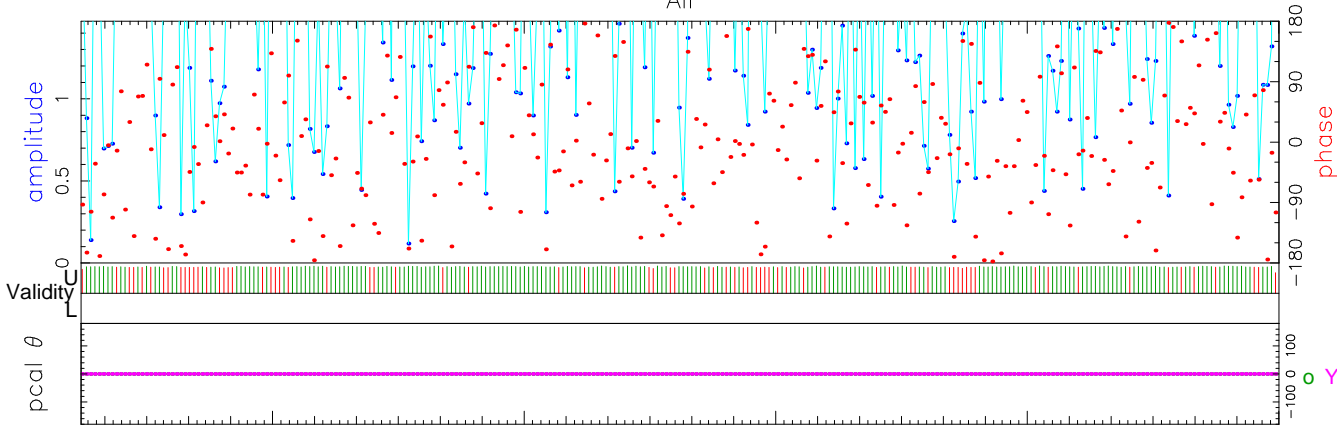
SNR 5.3
Int time 273.957
Amp 0.491
Phase -88.1
PFD 1.0e+00
Delays (us)
SBD 3.207197
MBD 0.000007
Fringe rate (Hz)
0.338763
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
5.6
0.5
923.5
U/L 558/0
o 1000
Y 0
o:Y 0:0
o:Y 0:0
o 1000
Y 1000
o W06UL
Y W06UL

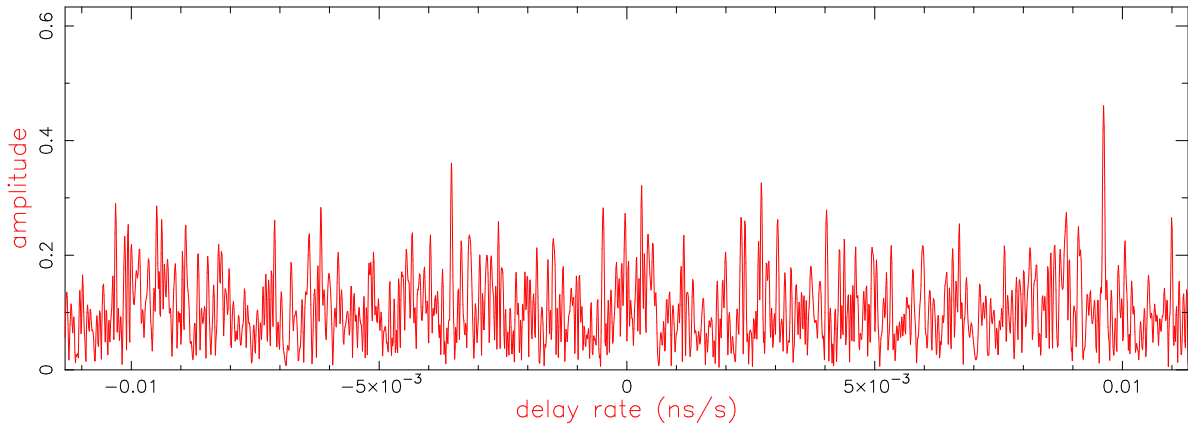
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.93496646715E+03	Apriori delay (usec)	-7.93817366853E+03	Resid mbdelay (usec)	6.82446E-06	+/-	3.3E-03
Sband delay (usec)	-7.93496647153E+03	Apriori clock (usec)	2.2304472E+01	Resid sbdelay (usec)	3.20720E+00	+/-	3.3E-03
Phase delay (usec)	-7.93817366835E+03	Apriori clockrate (us/s)	4.2655996E-07	Resid phdelay (usec)	1.81203E-07	+/-	7.0E-07
Delay rate (us/s)	1.87821441019E+00	Apriori rate (us/s)	1.87821047749E+00	Resid rate (us/s)	3.93271E-06	+/-	4.2E-09
Total phase (deg)	-18.8	Apriori accel (us/s/s)	4.09175849190E-05	Resid phase (deg)	-88.1	+/-	21.7

ph/seg (deg)	92.5	Theor.	181.1	Amplitude	0.491 +/- 0.093	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	367.4	Search (2048X8)	0.455	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.330	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.3	Inc. frq. avg.	0.471	Inc. frq. avg.	0.471	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11150.777 610.190 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oY.W.201.0QR3WR



Fringe quality 0

SNR 5.2

Int time 273.960

Amp 0.633

Phase 168.2

PFD 1.0e+00

Delays (us)

SBD -3.053832

MBD 0.000005

Fringe rate (Hz)

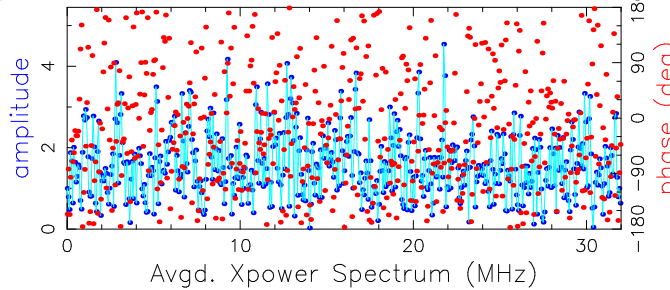
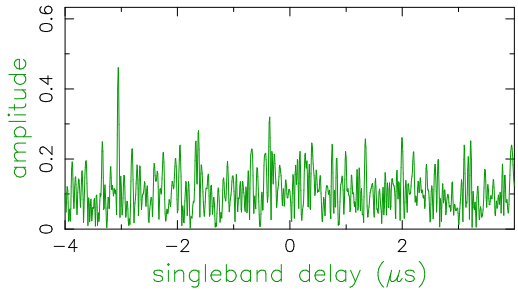
0.828542

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512



Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125514.34

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

2019:212:174212

2018:249:082454

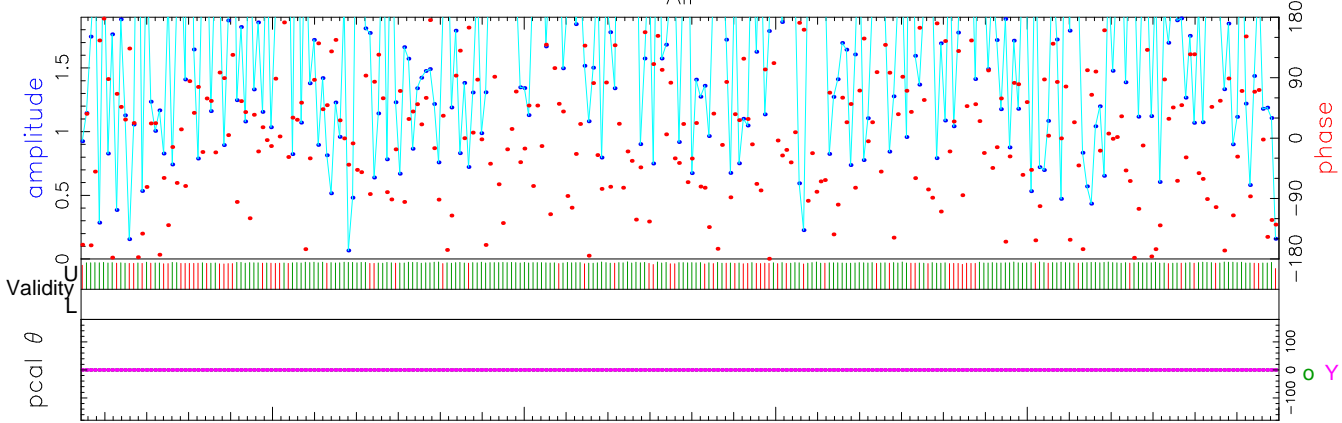
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00

7.8

0.6

122.1

U/L 558/0

o 1000

Y 0

o:Y 0:0

o:Y 0:0

o 1000

Y 1000

o W06UR

Y W06UR

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC phase

Manl PC

PC amp

Chan ids

Chan ids

Group delay (usec)(sbd)	-7.94122750064E+03	Apriori delay (usec)	-7.93817366853E+03	Resid mbdelay (usec)	5.30008E-06	+/-	3.3E-03
Sband delay (usec)	-7.94122750003E+03	Apriori clock (usec)	2.2304472E+01	Resid sbdelay (usec)	-3.05383E+00	+/-	3.3E-03
Phase delay (usec)	-7.93817366828E+03	Apriori clockrate (us/s)	4.2655996E-07	Resid phdelay (usec)	2.50052E-07	+/-	7.1E-07
Delay rate (us/s)	1.87822009603E+00	Apriori rate (us/s)	1.87821047749E+00	Resid rate (us/s)	9.61855E-06	+/-	4.3E-09
Total phase (deg)	237.5	Apriori accel (us/s/s)	4.09175849190E-05	Resid phase (deg)	168.2	+/-	21.9

ph/seg (deg)	89.6	Theor.	183.2	Amplitude	0.633 +/- 0.121	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	357.5	Search (2048X8)	0.456	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.406	Inc. seg. avg.	0.406	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.1	Inc. frq. avg.	0.621	Inc. frq. avg.	0.621	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011

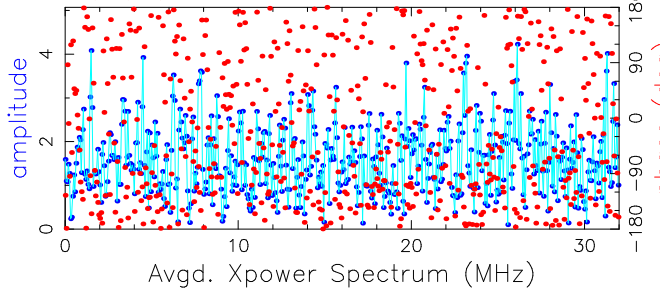
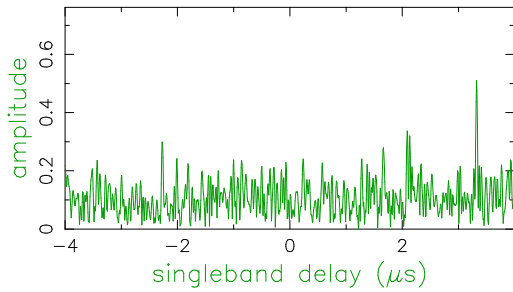
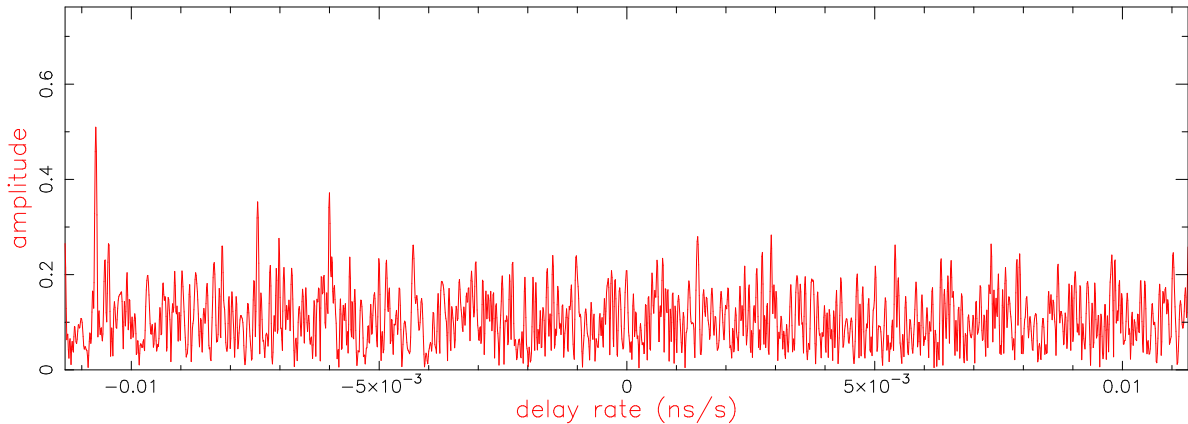
o: az 85.0 el 20.8 pa -55.7 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11150.777 610.190 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oY.W.211.0QR3WR

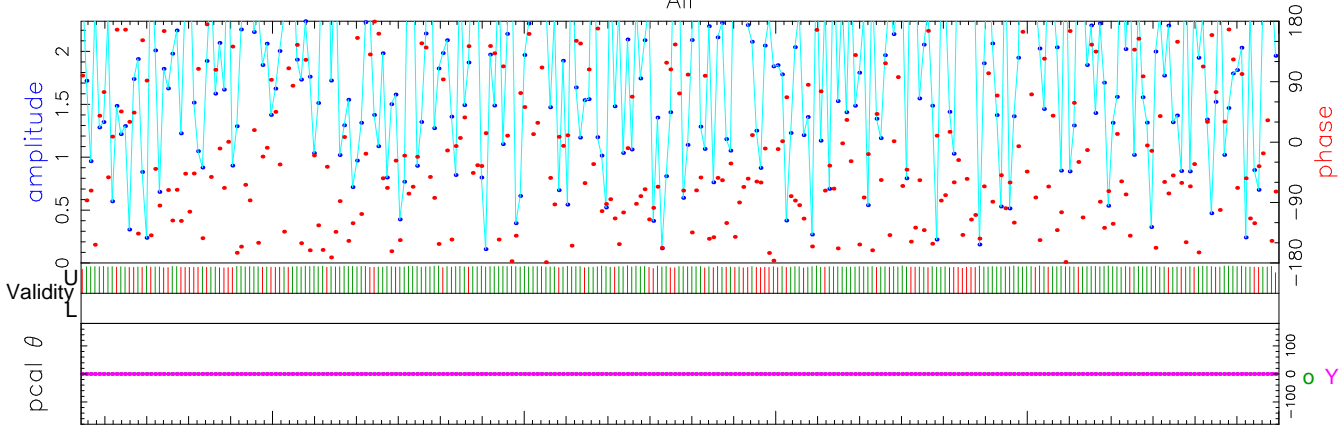
Fringe quality 0

SNR 5.8
Int time 273.957
Amp 0.762
Phase -307.2
PFD 5.9e-01
Delays (us)
SBD 3.321847
MBD -0.000005
Fringe rate (Hz)
-0.922500
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



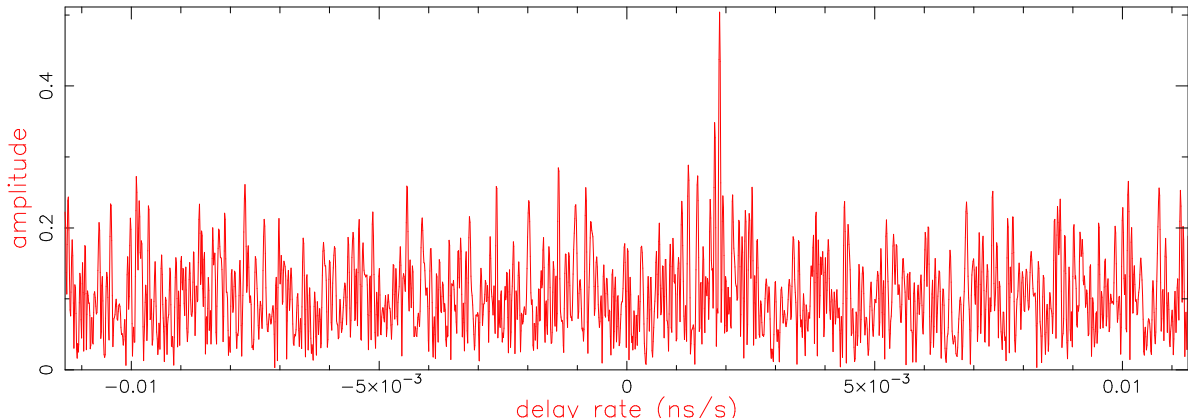
Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



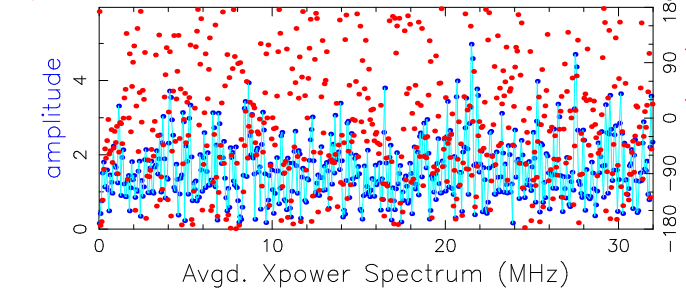
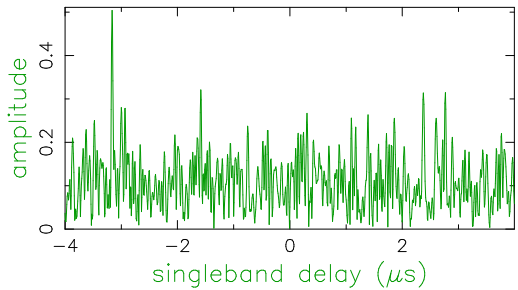
Validity
pcal θ
86204.00
-91.7
0.8
938.2
U/L 558/0
o 1000
Y 0
o:Y 0:0
o:Y 0:0
o 1000
Y 1000
o W06UL
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.93485182118E+03	Apriori delay (usec)	-7.93817366853E+03	Resid mbdelay (usec)	-5.46007E-06	+/-	3.0E-03		
Sband delay (usec)	-7.93485182103E+03	Apriori clock (usec)	2.2304472E+01	Resid sbdelay (usec)	3.32185E+00	+/-	3.0E-03		
Phase delay (usec)	-7.93817367149E+03	Apriori clockrate (us/s)	4.2655996E-07	Resid phdelay (usec)	-2.95782E-06	+/-	6.4E-07		
Delay rate (us/s)	1.87819976818E+00	Apriori rate (us/s)	1.87821047749E+00	Resid rate (us/s)	-1.07093E-05	+/-	3.9E-09		
Total phase (deg)	-237.9	Apriori accel (us/s/s)	4.09175849190E-05	Resid phase (deg)	-307.2	+/-	19.8		
ph/seg (deg)	88.9	RMS	165.3	Theor.	Amplitude	0.762 +/- 0.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	318.2	Search (2048X8)	0.503	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.540	Inc. frq. avg.	0.748	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	Inc. frq. avg.	0.748	Sample rate(MSamp/s): 64	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	dr window (ns/s)	-0.011 0.011
o: az 85.0 el 20.8 pa -55.7		Y: az 246.0 el 48.3 pa 46.5		u,v (fr/asec) -11150.777 610.190		ion window (TEC) 0.00 0.00			

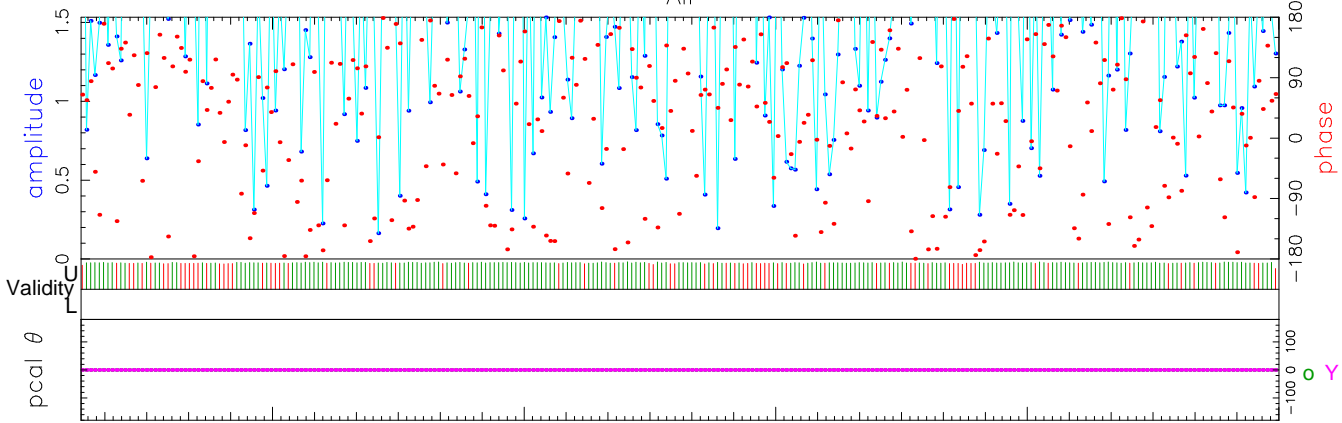


Fringe quality 0
SNR 5.7
Int time 273.960
Amp 0.511
Phase 252.9
PFD 7.3e-01
Delays (us)
SBD -3.162759
MBD 0.000004
Fringe rate (Hz)
0.161483
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

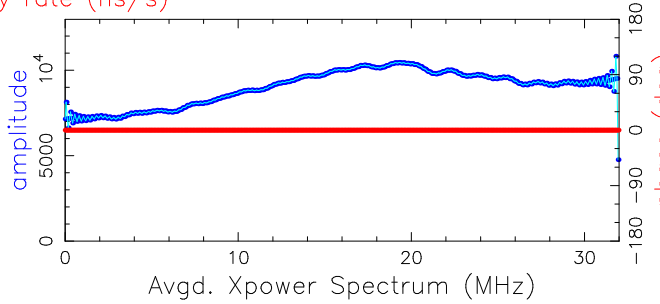
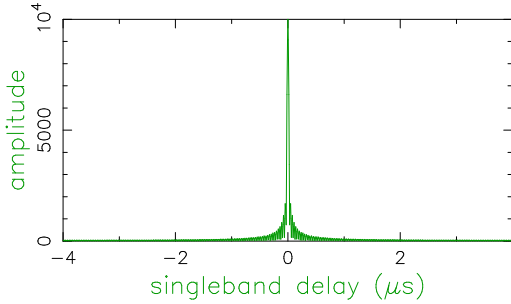
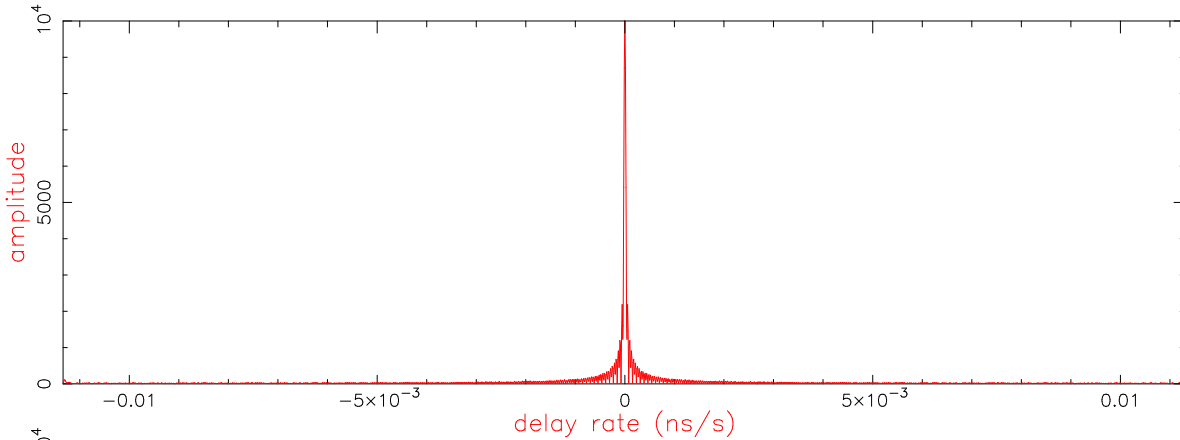


86204.00 Freq (MHz)
102.8 Phase
0.5 Ampl.
108.2 Sbd box
U/L 558/0 APs used
o 1000 PC freqs
Y 0 PC freqs
o:Y 0:0 PC phase
o:Y 0:0 Mani PC
o 1000 PC amp
Y 1000
o W06UR Chan ids
Y W06UL Chan ids

Group delay (usec)(sbd)	-7.94133642918E+03	Apriori delay (usec)	-7.93817366853E+03	Resid mbdelay (usec)	4.42058E-06	+/-	3.0E-03
Sband delay (usec)	-7.94133642703E+03	Apriori clock (usec)	2.2304472E+01	Resid sbdelay (usec)	-3.16276E+00	+/-	3.0E-03
Phase delay (usec)	-7.93817366522E+03	Apriori clockrate (us/s)	4.2655996E-07	Resid phdelay (usec)	3.31379E-06	+/-	6.5E-07
Delay rate (us/s)	1.87821235215E+00	Apriori rate (us/s)	1.87821047749E+00	Resid rate (us/s)	1.87466E-06	+/-	3.9E-09
Total phase (deg)	322.2	Apriori accel (us/s/s)	4.09175849190E-05	Resid phase (deg)	252.9	+/-	20.0

ph/seg (deg)	89.6	Theor.	167.3	Amplitude	0.511 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	321.0	Search (2048X8)	0.494	Search	0.494	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.351	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.3	Inc. frq. avg.	0.502	Inc. frq. avg.	0.502	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

o: az 85.0 el 20.8 pa -55.7 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -11150.777 610.190 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//oY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//oY.W.233.0QR3WR

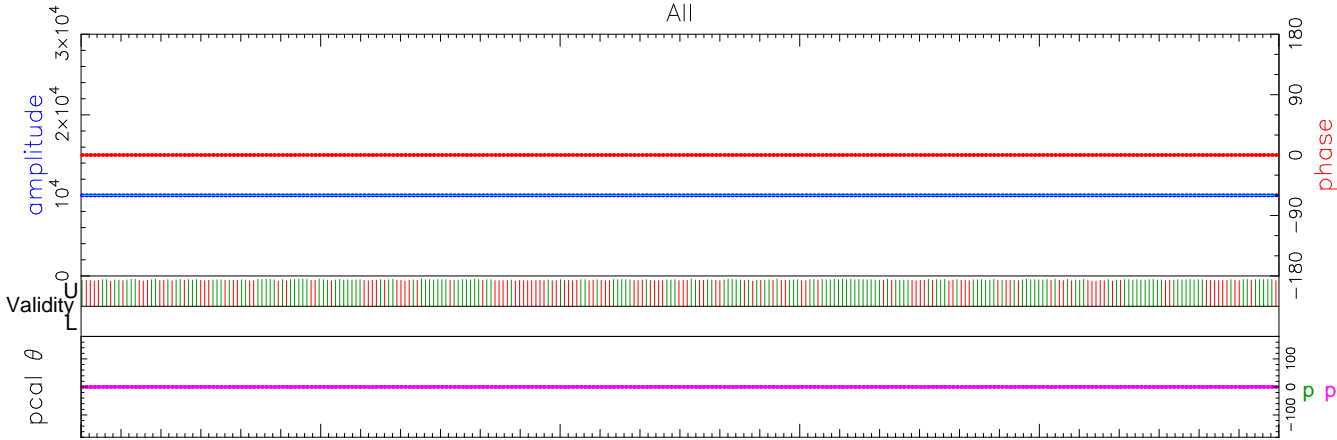


Fringe quality 9

SNR 115705.1
Int time 286.437
Amp 10000.002
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174211
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00		Freq (MHz)
0.2		Phase
10000.0		Ampl.
513.0		Sbd box
U/L 586/0		APs used
p 1000		PC freqs
p 1000		PC freqs
p:p 0:0		PC phase
p:p 0:0		Mani PC
p 1000		PC amp
p 1000		
p W06UL		Chan ids
p		
p W06UL		Chan ids

Group delay (usec)(sbd)	5.65922695003E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.94116E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	5.51768082013E-09	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	5.51768E-09	+/-	3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	0.0	Amplitude	10000.002 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0	0.0	Search (2048X8)	10000.002	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00
			Inc. frq. avg.	10000.002	nlags:	512	t_cohere	infinite			

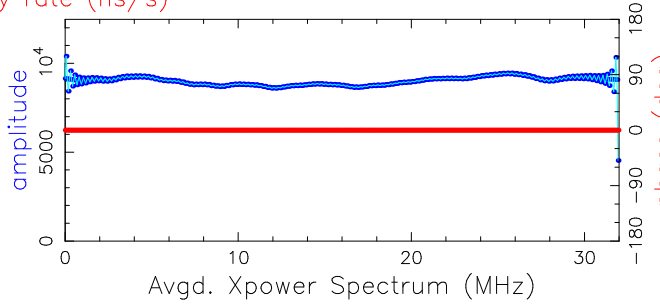
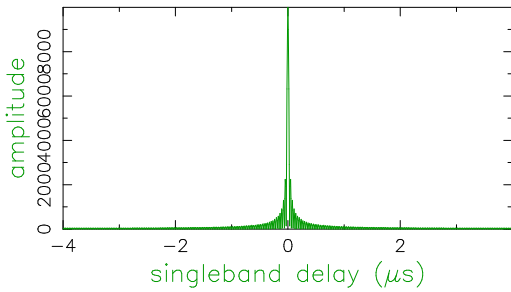
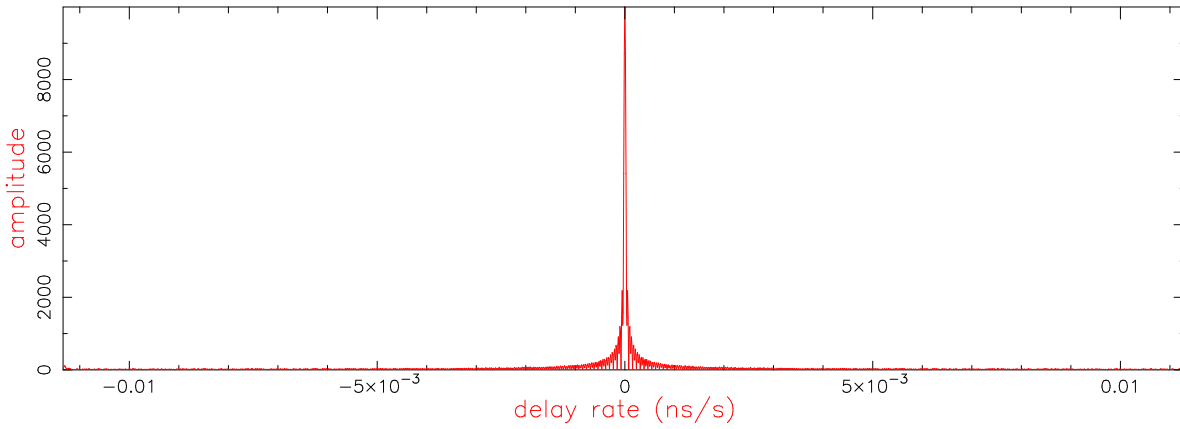
p: az 89.4 el 28.9 pa -59.3 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pp.W.202.0QR3WR

Fringe quality 9

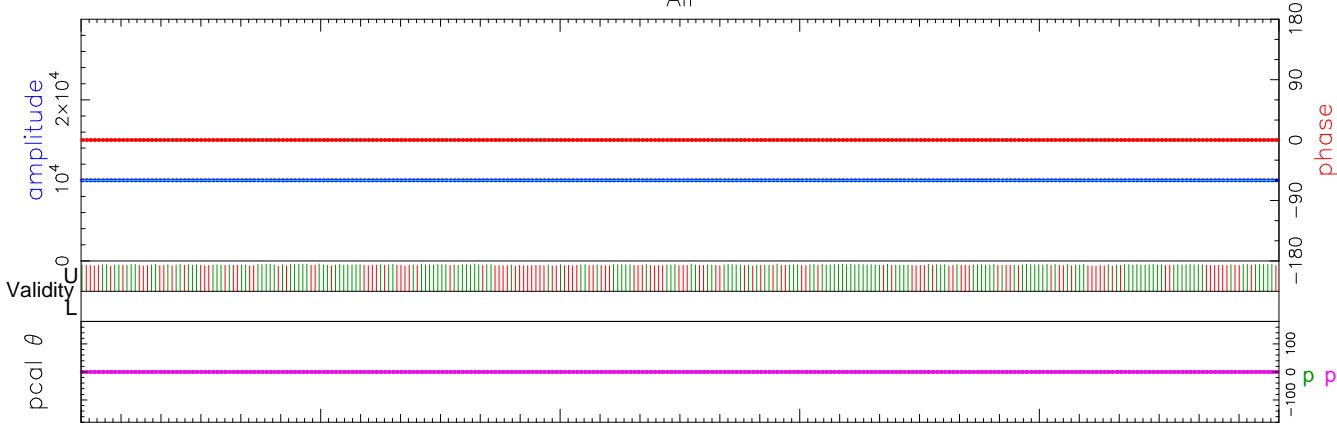
SNR 115703.5
Int time 286.429
Amp 9999.999
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174212
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



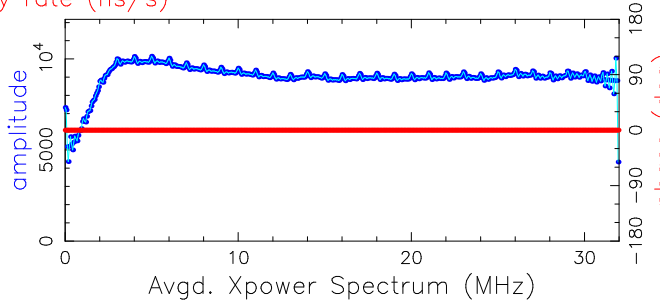
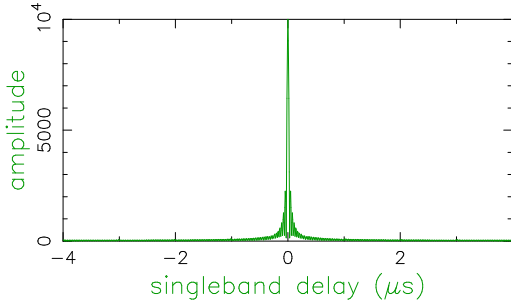
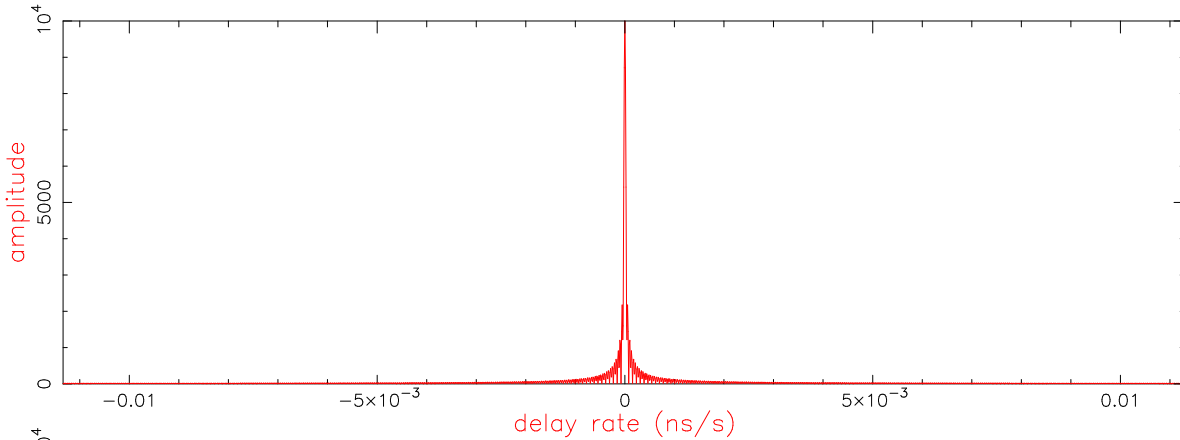
86204.00 Freq (MHz)
0.2 Phase
10000.0 Ampl.
513.0 Sbd box
U/L 586/0 APs used
p 1000 PC freqs
p 1000 PC freqs
p:p 0:0 PC phase
p:p 0:0 Mani PC
p 1000 PC amp
p 1000
p W06UR Chan ids
p W06UR Chan ids

Group delay (usec)(sbd) 4.75476776020E-06 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -6.84562E-06 +/- 1.5E-07
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-07
Phase delay (usec) 6.35767078050E-09 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 6.35767E-09 +/- 3.2E-11
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 1.8E-13
Total phase (deg) -0.1 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.1 +/- 0.0

RMS Theor. Amplitude 9999.999 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X8) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

p: az 89.4 el 28.9 pa -59.3 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pp.W.212.0QR3WR

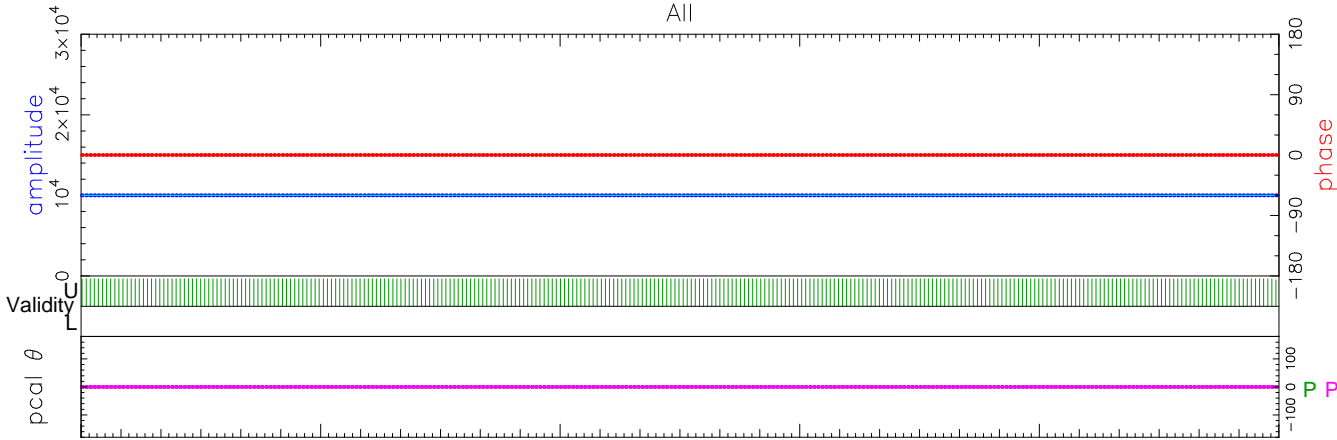


Fringe quality 9

SNR 118345.4
 Int time 299.659
 Amp 10000.004
 Phase 0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000004
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174213
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



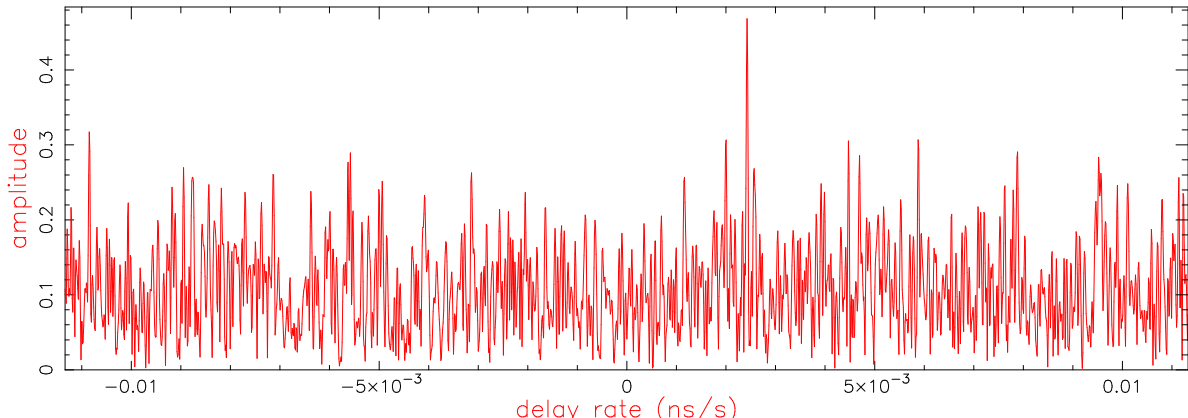
86204.00
 0.1
 10000.0
 513.0
 U/L 586/0
 P 0
 P 0
 P:P 0:0
 P:P 0:0
 P 1000
 P 1000
 P W06UL
 P W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

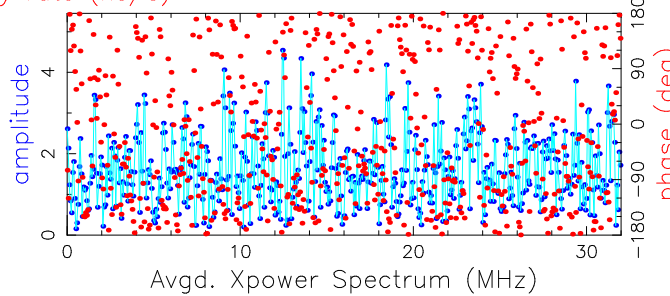
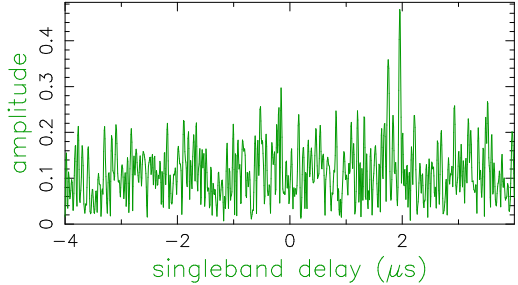
Group delay (usec)(sbd)	-4.41232425409E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.41232E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	4.09781681365E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.09782E-09	+/-	3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.004 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X8)	10000.003	Search	10000.003	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	10000.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	10000.003	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	10000.003	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

P: az 249.4 el 49.9 pa 50.8 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//PP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//PP.W.221.0QR3WR



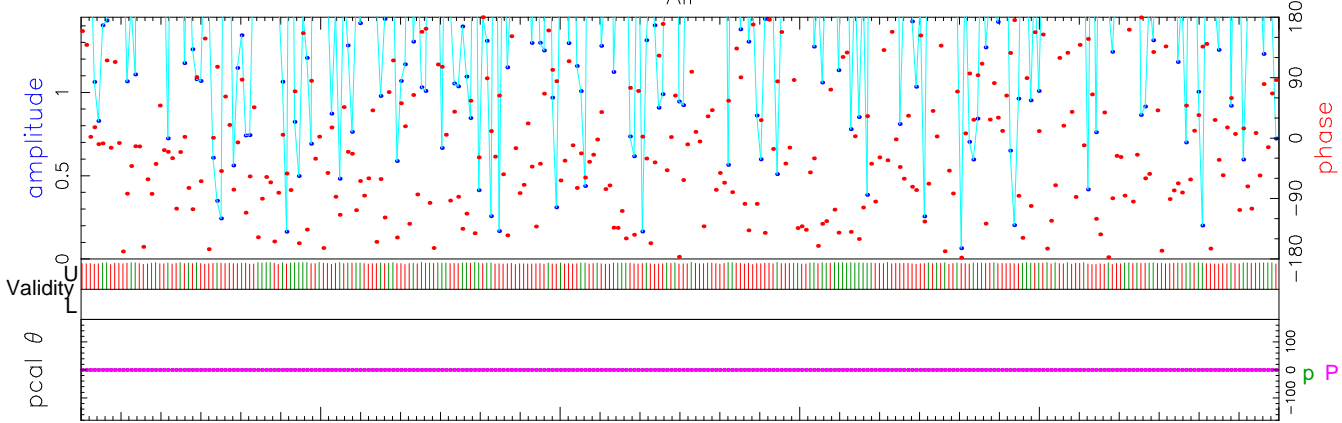
Fringe quality 0
SNR 5.5
Int time 282.949
Amp 0.484
Phase -116.3
PFD 1.0e+00
Delays (us)
SBD 1.956320
MBD 0.000007
Fringe rate (Hz) 0.209124
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-42.9
0.5
763.4
U/L 586/0
p 1000
P 0
p:P 0:0
p:P 0:0
p 1000
P 1000
p W06UL
p W06UL

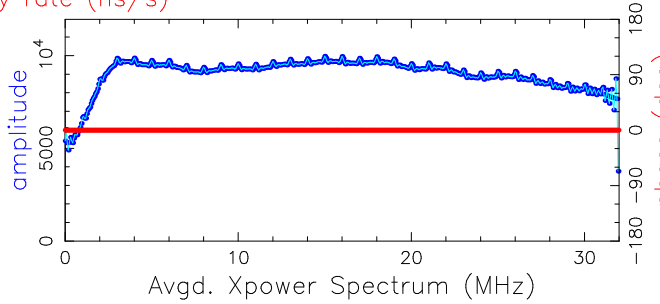
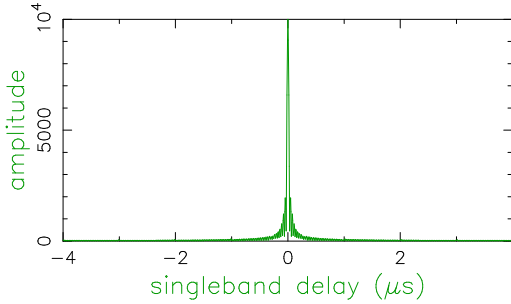
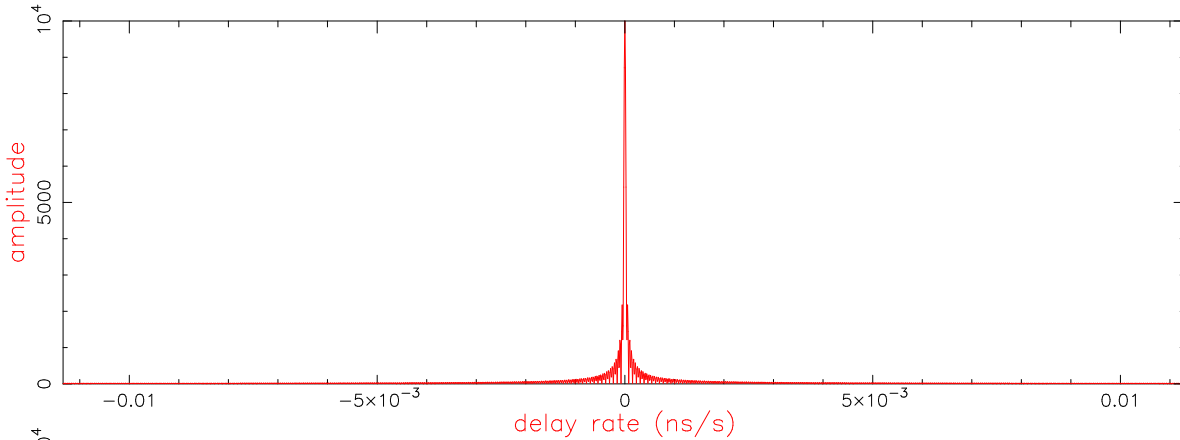
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.57457233107E+03	Apriori delay (usec)	-5.57652865062E+03	Resid mbdelay (usec)	6.61231E-06	+/-	3.2E-03
Sband delay (usec)	-5.57457233062E+03	Apriori clock (usec)	3.1382526E+01	Resid sbdelay (usec)	1.95632E+00	+/-	3.2E-03
Phase delay (usec)	-5.57652865200E+03	Apriori clockrate (us/s)	4.4200001E-07	Resid phdelay (usec)	-1.38240E-06	+/-	6.8E-07
Delay rate (us/s)	1.87822696280E+00	Apriori rate (us/s)	1.87822453508E+00	Resid rate (us/s)	2.42772E-06	+/-	3.9E-09
Total phase (deg)	-103.4	Apriori accel (us/s/s)	2.85814745202E-05	Resid phase (deg)	-116.3	+/-	21.0

ph/seg (deg)	92.0	Theor.	179.6	Amplitude	0.484 +/- 0.089	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	361.2	Search (2048X8)	0.458	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.320	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.4	Inc. frq. avg.	0.469	Inc. frq. avg.	0.469	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

p: az 89.4 el 28.9 pa -59.3 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11166.399 374.481 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pP.W.229.0QR3WR

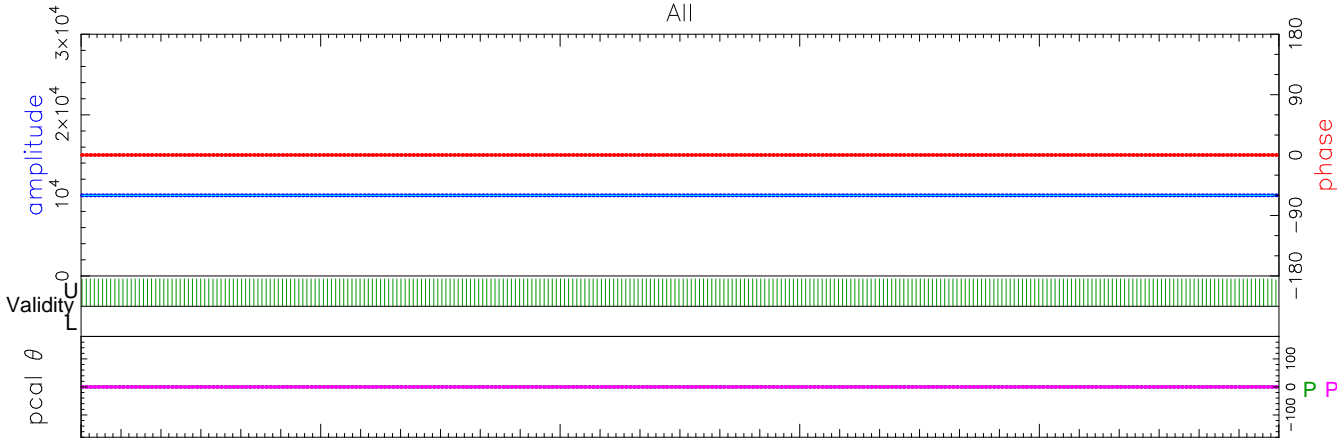


Fringe quality 9

SNR 118345.4
Int time 299.659
Amp 10000.004
Phase 0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000004
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
0.1
10000.0
513.0
U/L 586/0
P 0
P 0
P:P 0:0
P:P 0:0
P 1000
P 1000
P W06UR
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	-4.35304626235E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.35305E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	4.04276411642E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.04276E-09	+/-	3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.1	+/-	0.0

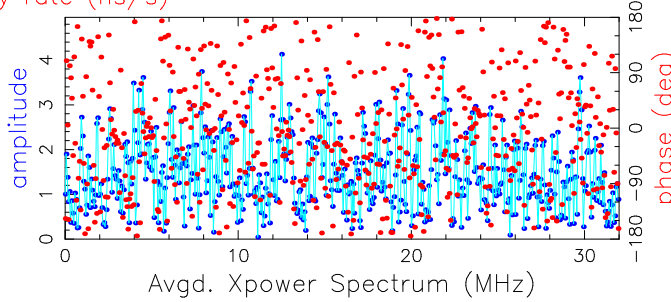
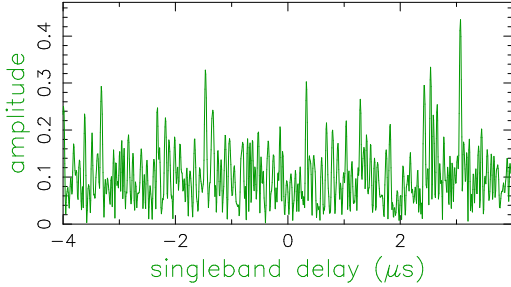
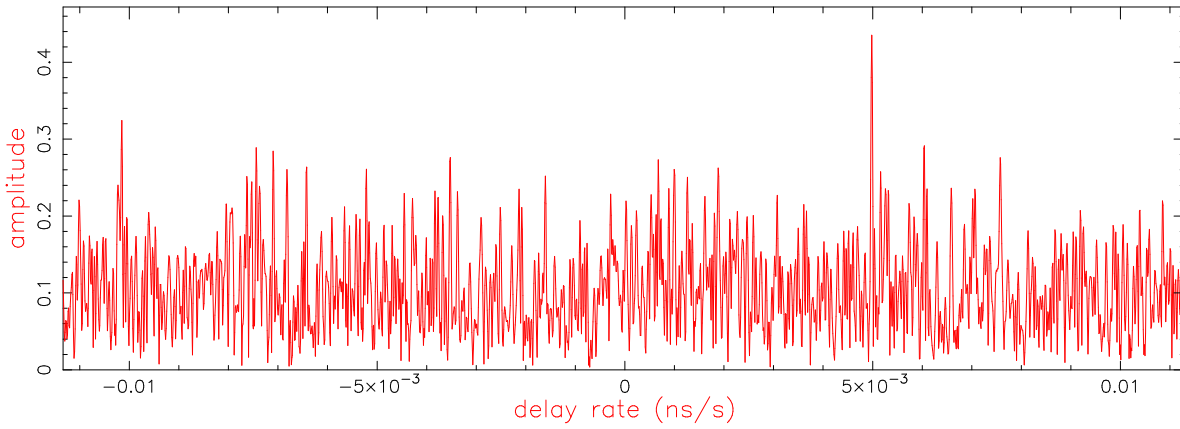
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.004 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X8)	10000.003	Search	10000.003	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	10000.003	Inc. frq. avg.	10000.003	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00
						nlags:	512	t_cohere	infinite

P: az 249.4 el 49.9 pa 50.8 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//PP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//PP.W.234.0QR3WR

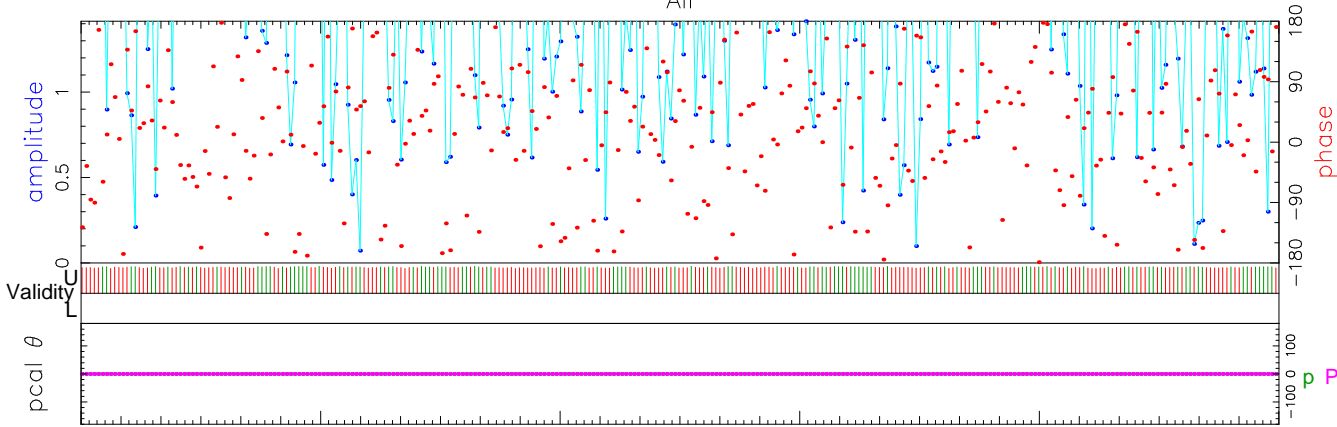
Fringe quality 0

SNR 5.0
Int time 282.943
Amp 0.472
Phase -129.7
PFD 1.0e+00
Delays (us)
SBD 3.069530
MBD 0.000004
Fringe rate (Hz)
0.428547
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174215
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
32.1
0.5
905.9
U/L 586/0
p 1000
P 0
p:P 0:0
p:P 0:0
p 1000
P 1000
p W06UR
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.57345912513E+03	Apriori delay (usec)	-5.57652865062E+03	Resid mbdelay (usec)	4.35031E-06	+/-	3.4E-03
Sband delay (usec)	-5.57345912112E+03	Apriori clock (usec)	3.1382526E+01	Resid sbdelay (usec)	3.06953E+00	+/-	3.4E-03
Phase delay (usec)	-5.57652864958E+03	Apriori clockrate (us/s)	4.4200001E-07	Resid phdelay (usec)	1.03484E-06	+/-	7.4E-07
Delay rate (us/s)	1.87822951008E+00	Apriori rate (us/s)	1.87822453508E+00	Resid rate (us/s)	4.97500E-06	+/-	4.3E-09
Total phase (deg)	-116.8	Apriori accel (us/s/s)	2.85814745202E-05	Resid phase (deg)	-129.7	+/-	22.9

ph/seg (deg)	90.4	Theor.	195.9	Amplitude	0.472 +/- 0.094	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	386.3	Search (2048X8)	0.424	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.289	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.1	Inc. frq. avg.	0.462	Inc. frq. avg.	0.462	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

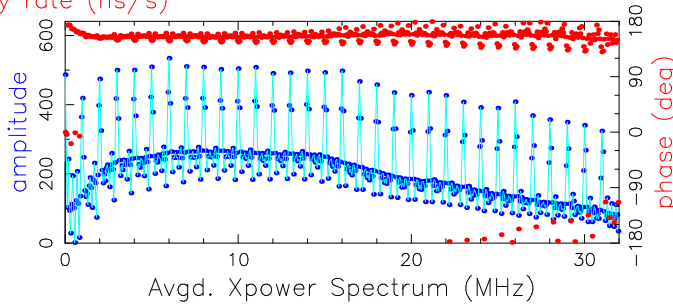
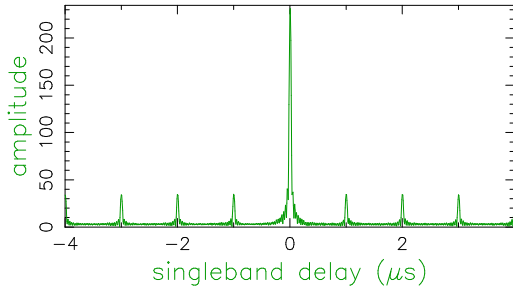
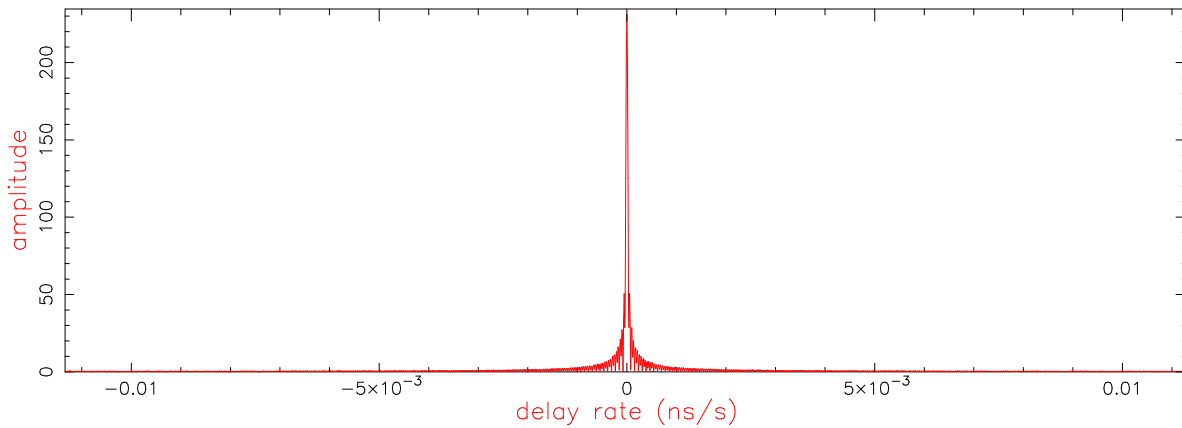
p: az 89.4 el 28.9 pa -59.3 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11166.399 374.481 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pP.W.244.0QR3WR

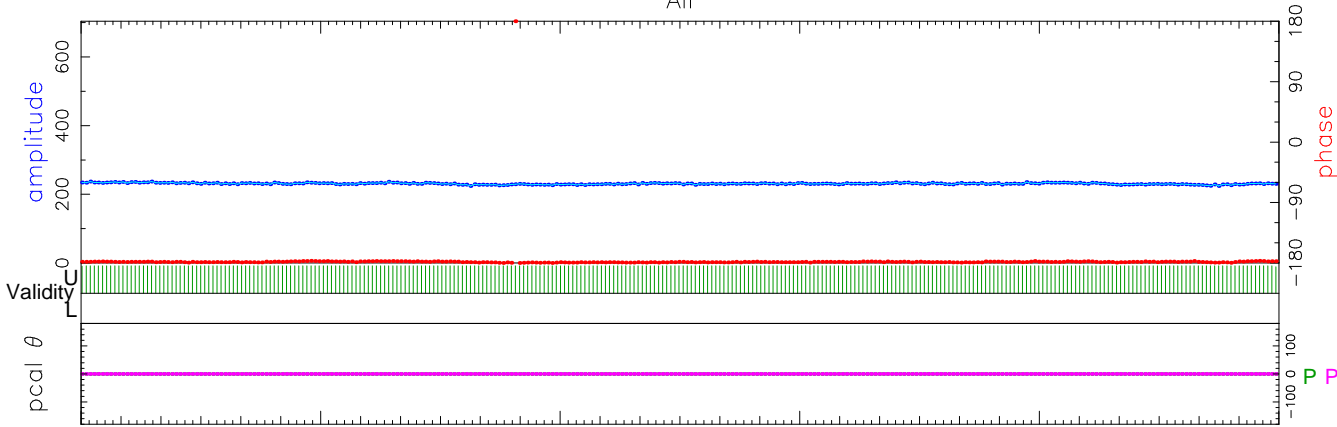
Fringe quality 9

SNR 2776.9
 Int time 299.659
 Amp 234.642
 Phase -280.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.004412
 MBD -0.000005
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174215
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 -178.3
 231.1
 513.6
 U/L 586/0
 P 0
 P 0
 P:P 0:0
 P:P 0:0
 P 1000
 P 1000
 P W06UL
 P W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

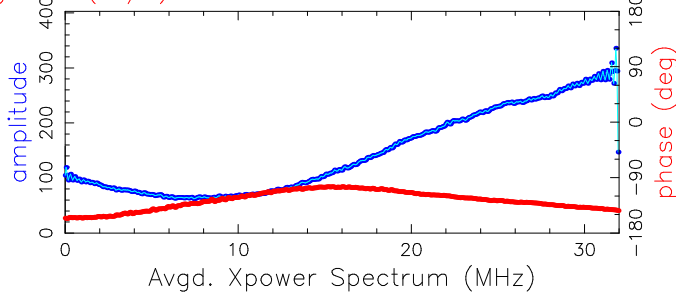
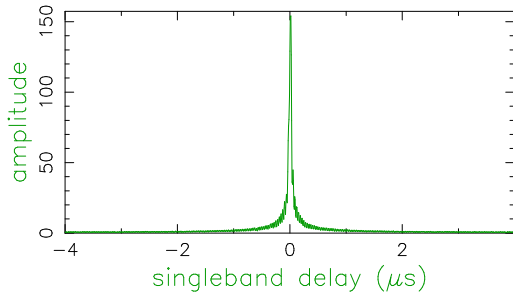
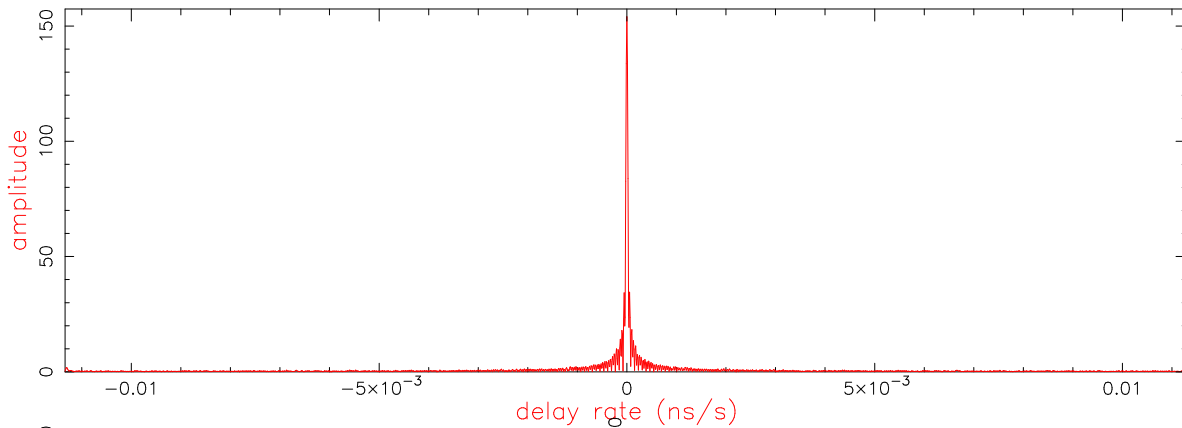
Group delay (usec)(sbd)	4.41474363139E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.00487E-06	+/- 6.2E-06
Sband delay (usec)	4.4120000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	4.41200E-03	+/- 6.2E-06
Phase delay (usec)	-5.75049089918E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.75049E-06	+/- 1.3E-09
Delay rate (us/s)	-1.06283642938E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-1.06284E-11	+/- 7.7E-12
Total phase (deg)	-280.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-280.2	+/- 0.0

ph/seg (deg)	0.7	Theor.	0.4	Amplitude	234.642 +/- 0.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	1.8		0.6	Search (2048X8)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Inc. seg. avg.	231.067	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.5		0.0	Inc. frq. avg.	231.056	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

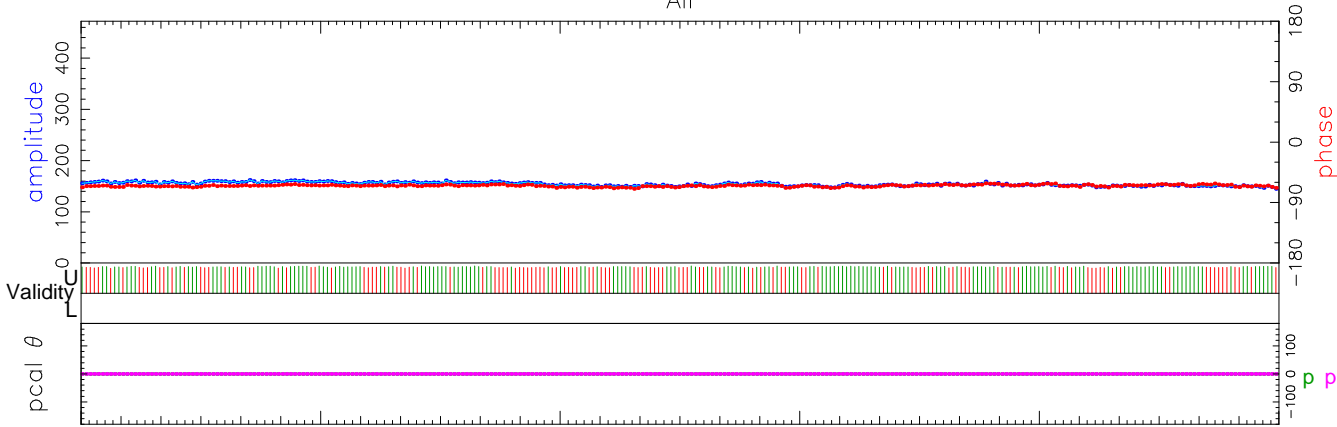
Fringe quality 9

SNR 1821.1
Int time 286.437
Amp 157.393
Phase -339.2
PFD 0.0e+00
Delays (us)
SBD 0.011894
MBD -0.000007
Fringe rate (Hz)
-0.000088
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
-65.0 Phase
154.1 Ampl.
514.5 Sbd box
U/L 586/0 APs used
p 1000 PC freqs
p 1000 PC freqs
p:p 0:0 PC phase
p:p 0:0 Mani PC
p 1000 PC amp
p 1000
p W06UL Chan ids
p W06UR Chan ids

Group delay (usec)(sbd)	1.18951115029E-02	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88840E-06	+/-	9.5E-06
Sband delay (usec)	1.18940000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.18940E-02	+/-	9.5E-06
Phase delay (usec)	-2.09466559618E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.09467E-06	+/-	2.0E-09
Delay rate (us/s)	-1.02599143316E-09	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-1.02599E-09	+/-	1.2E-11
Total phase (deg)	-339.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-339.2	+/-	0.1

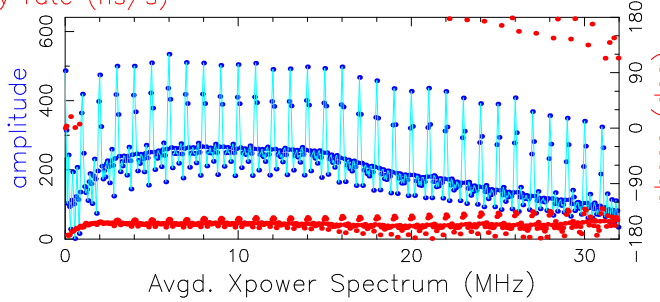
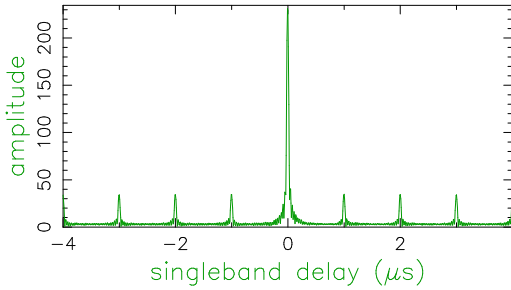
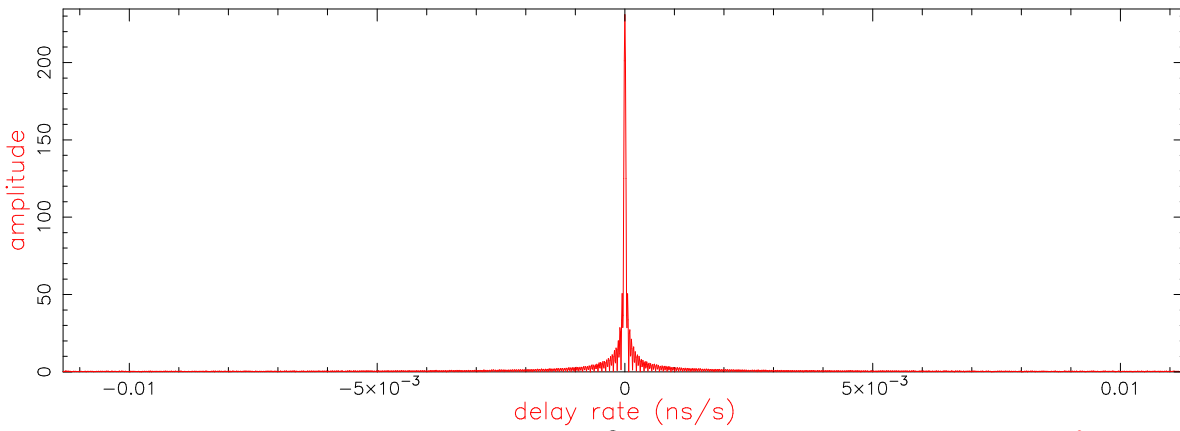
ph/seg (deg)	1.5	0.5	Amplitude	157.393 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	3.1	0.9	Search (2048X8)	153.914	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.1	0.1	Inc. seg. avg.	154.098	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	154.053	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

p: az 89.4 el 28.9 pa -59.3 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/pp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/pp.W.250.0QR3WR

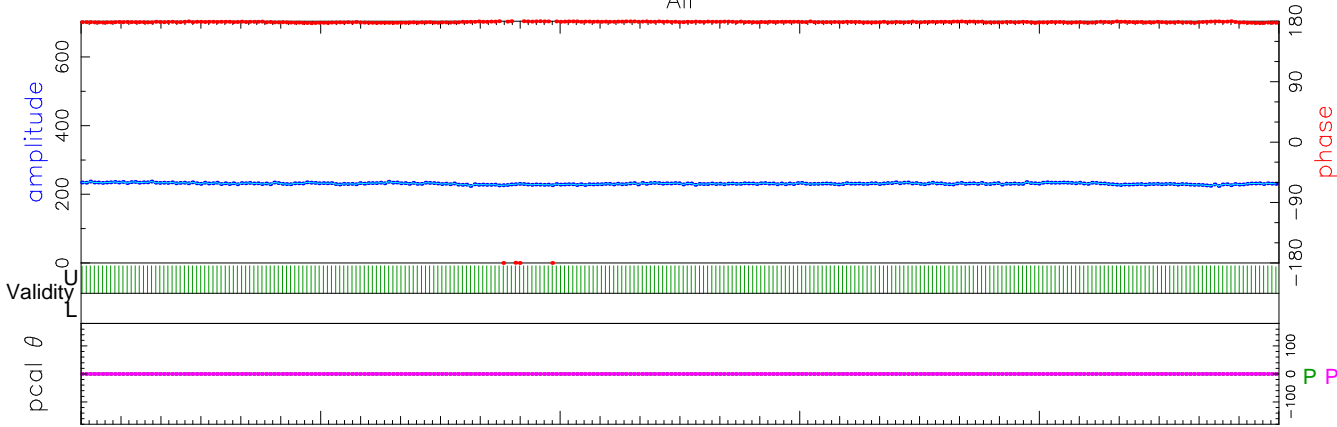
Fringe quality 9

SNR 2776.9
Int time 299.659
Amp 234.642
Phase 280.2
PFD 0.0e+00
Delays (us)
SBD -0.004412
MBD -0.000005
Fringe rate (Hz)
0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



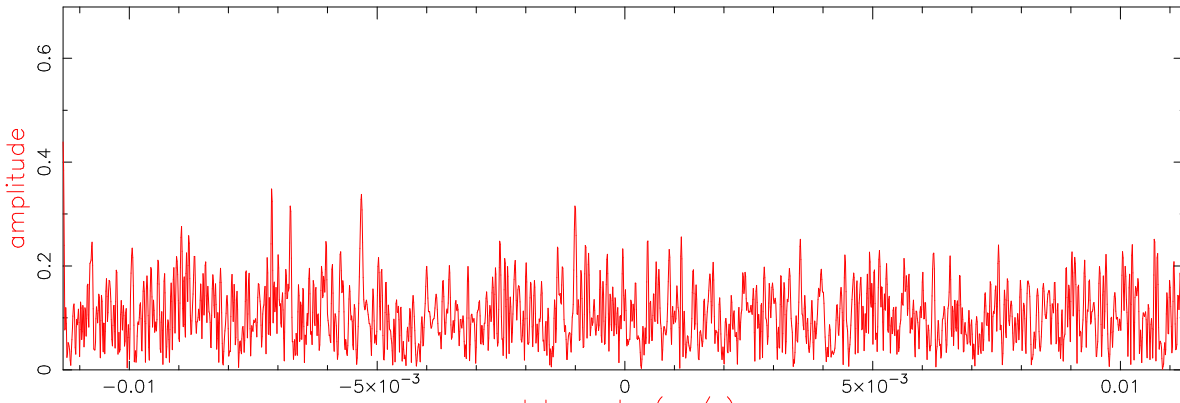
86204.00
178.6
231.1
512.4
U/L 586/0
P 0
P 0
P:P 0:0
P:P 0:0
P 1000
P 1000
P W06UR
P W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

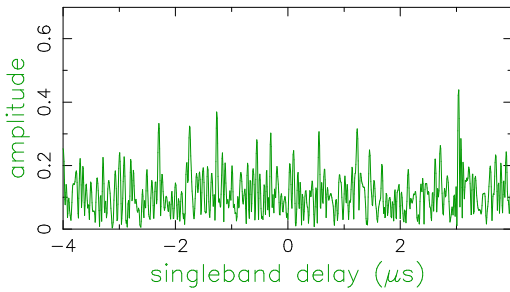
Group delay (usec)(sbd)	-4.41292747436E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.77936E-06	+/-	6.2E-06
Sband delay (usec)	-4.41200000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-4.41200E-03	+/-	6.2E-06
Phase delay (usec)	5.75957771854E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.75958E-06	+/-	1.3E-09
Delay rate (us/s)	1.06283642938E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.06284E-11	+/-	7.7E-12
Total phase (deg)	280.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	280.2	+/-	0.0

ph/seg (deg)	0.7	0.4	Amplitude	234.642 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	1.8	0.6	Search (2048X8)	231.056	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	1.5	0.0	Inc. seg. avg.	231.067	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
			Inc. frq. avg.	231.056	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

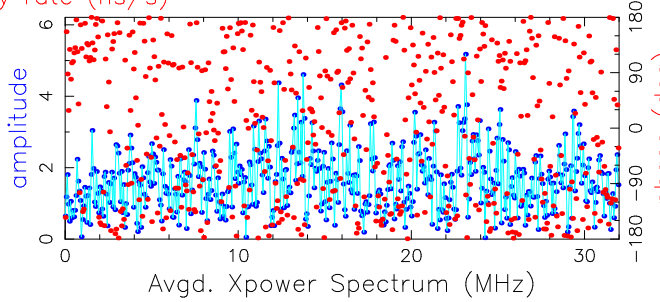
Fringe quality 0



SNR 5.1
Int time 282.949
Amp 0.699
Phase -106.9
PFD 1.0e+00
Delays (us)
SBD 3.036402
MBD 0.000004
Fringe rate (Hz)
0.975791
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

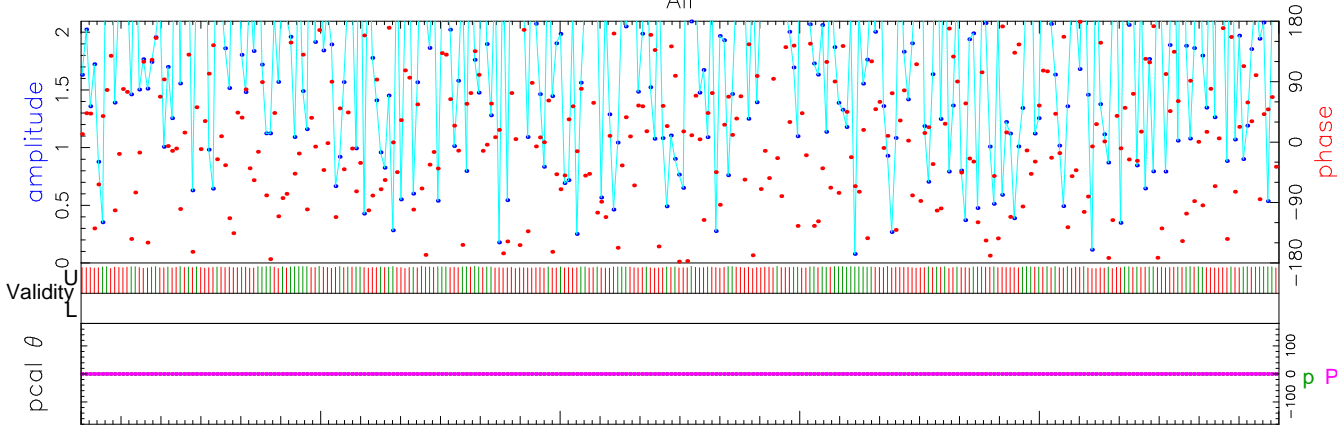


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



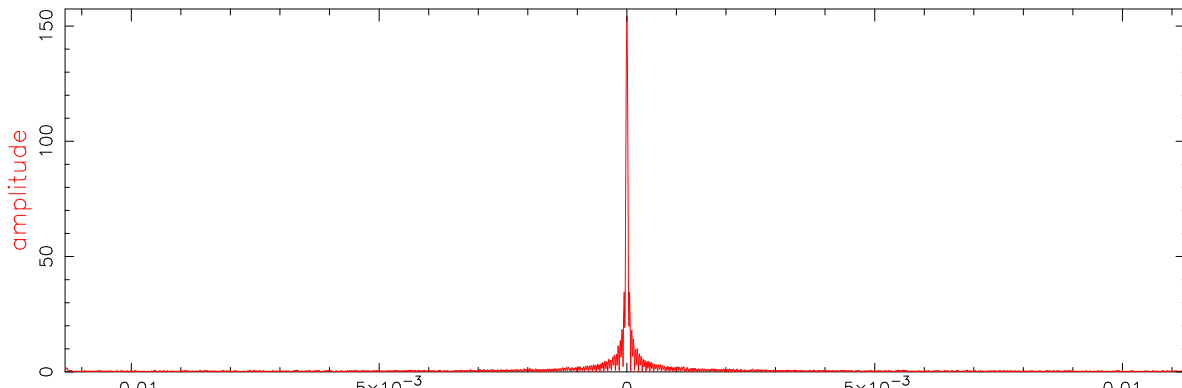
86204.00
11.8
0.7
901.7
U/L 586/0
p 1000
P 0
p:P 0:0
p:P 0:0
p 1000
P 1000
p W06UL
P W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.57349224424E+03	Apriori delay (usec)	-5.57652865062E+03	Resid mbdelay (usec)	4.35024E-06	+/-	3.4E-03
Sband delay (usec)	-5.57349224862E+03	Apriori clock (usec)	3.1382526E+01	Resid sbdelay (usec)	3.03640E+00	+/-	3.4E-03
Phase delay (usec)	-5.57652865024E+03	Apriori clockrate (us/s)	4.4200001E-07	Resid phdelay (usec)	3.80743E-07	+/-	7.2E-07
Delay rate (us/s)	1.87823586305E+00	Apriori rate (us/s)	1.87822453508E+00	Resid rate (us/s)	1.13280E-05	+/-	4.2E-09
Total phase (deg)	-94.0	Apriori accel (us/s/s)	2.85814745202E-05	Resid phase (deg)	-106.9	+/-	22.4

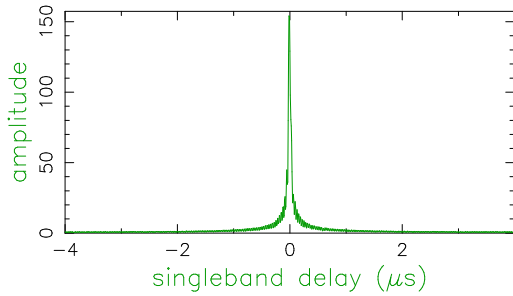
ph/seg (deg)	RMS 91.0	Theor. 191.6	Amplitude 0.699 +/- 0.136	Search (2048X8) 0.436	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	389.3	334.3	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.2	Inc. seg. avg. 0.450	0.450	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.5	19.5	Inc. frq. avg. 0.676	0.676	Data rate(Mb/s): 128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

p: az 89.4 el 28.9 pa -59.3 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11166.399 374.481 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pP.W.266.0QR3WR

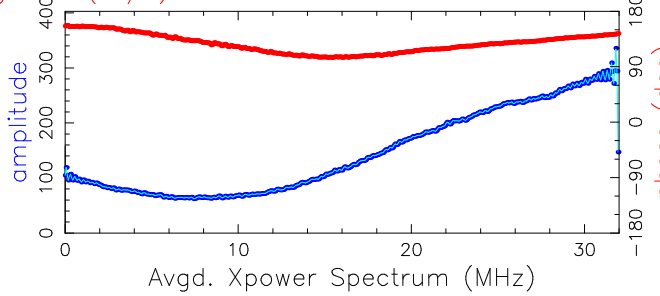


Fringe quality 9

SNR 1821.1
Int time 286.429
Amp 157.398
Phase 339.3
PFD 0.0e+00
Delays (us)
SBD -0.011894
MBD -0.000007
Fringe rate (Hz)
0.000088
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



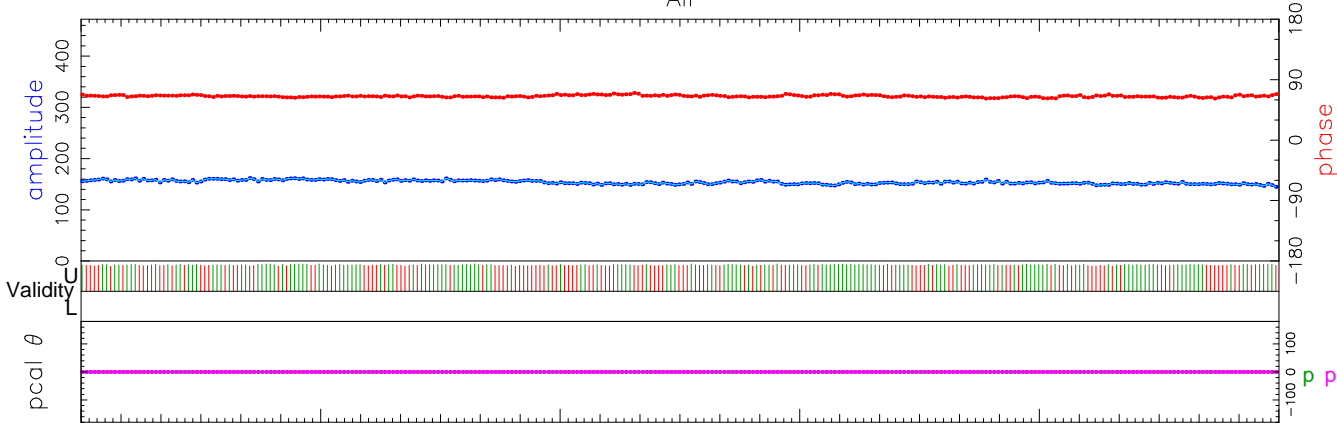
delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174218
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



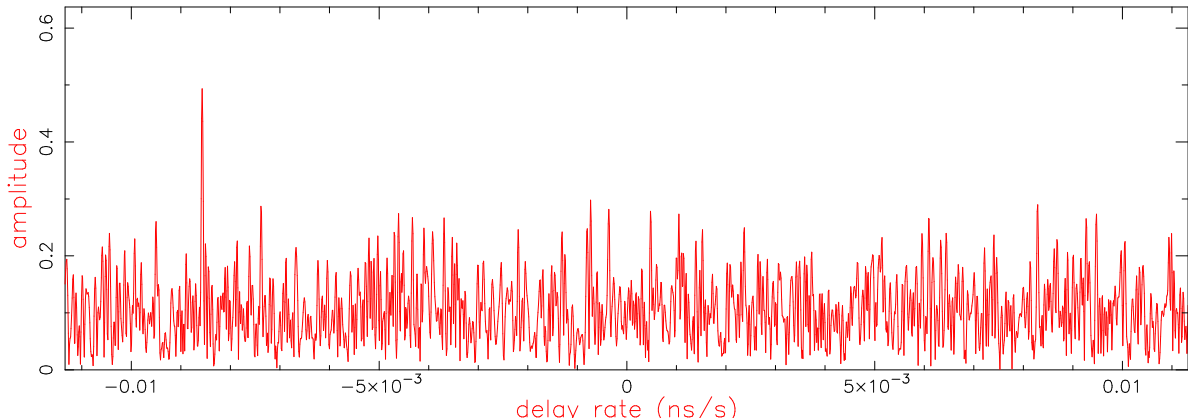
86204.00 Freq (MHz)
65.4 Phase
154.1 Ampl.
511.5 Sbd box
U/L 586/0 APs used
p 1000 PC freqs
p 1000 PC freqs
p:p 0:0 PC phase
p:p 0:0 Mani PC
p 1000 PC amp
p 1000
p W06UR Chan ids
p W06UL Chan ids

Group delay (usec)(sbd) -1.18976434040E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -7.24389E-06 +/- 9.5E-06
Sband delay (usec) -1.18940000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -1.18940E-02 +/- 9.5E-06
Phase delay (usec) 2.10779054723E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.10779E-06 +/- 2.0E-09
Delay rate (us/s) 1.02599143316E-09 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 1.02599E-09 +/- 1.2E-11
Total phase (deg) 339.3 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 339.3 +/- 0.1

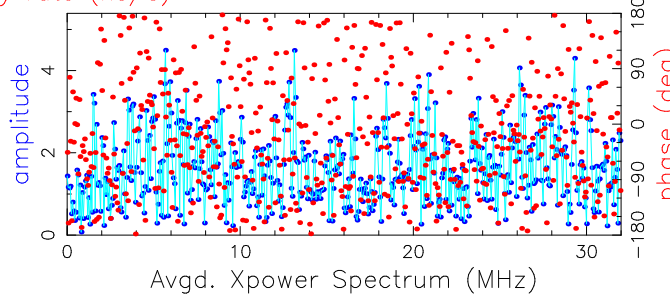
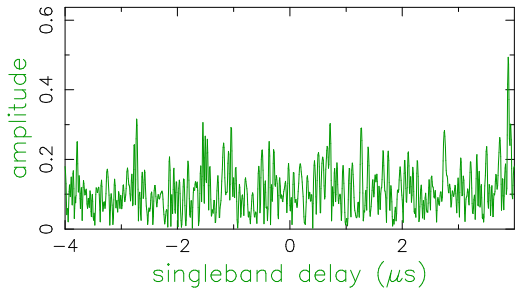
RMS Theor. Amplitude 157.398 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 1.5 0.5 Search (2048X8) 153.918 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
amp/seg (%) 3.1 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 154.102 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 2.1 0.1 Inc. frq. avg. 154.058 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

p: az 89.4 el 28.9 pa -59.3 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

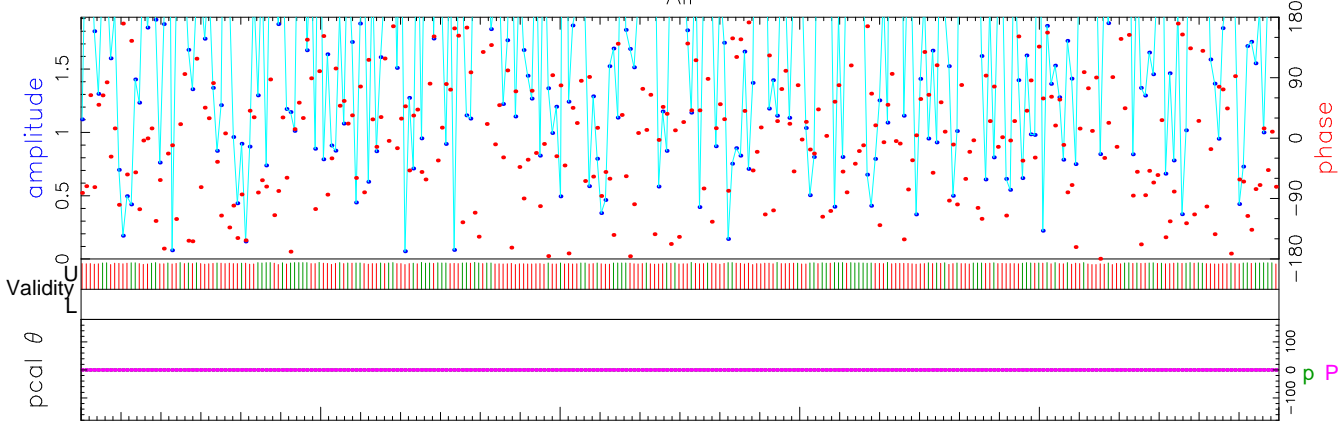
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/pp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/pp.W.268.0QR3WR



Fringe quality 0
SNR 5.7
Int time 282.943
Amp 0.637
Phase -221.9
PFD 7.3e-01
Delays (us)
SBD 3.885086
MBD -0.000005
Fringe rate (Hz)
-0.737773
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



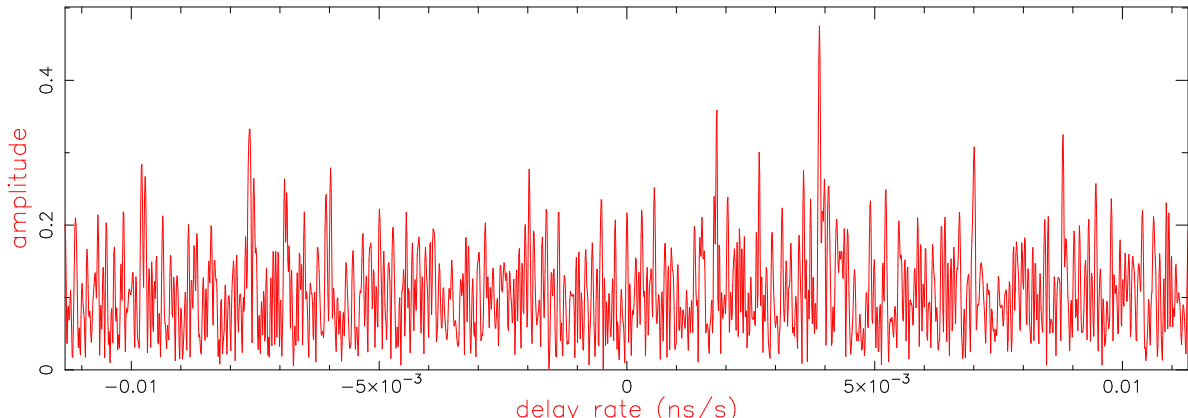
86204.00
10.5
0.6
1010.3
U/L 586/0
p 1000
P 0
p:P 0:0
p:P 0:0
p 1000
P 1000
p W06UR
P W06UL

Validity
pca1 theta

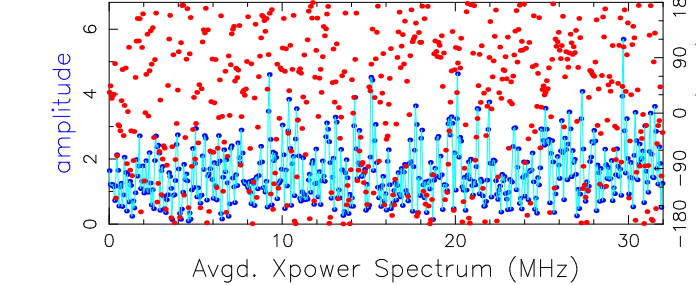
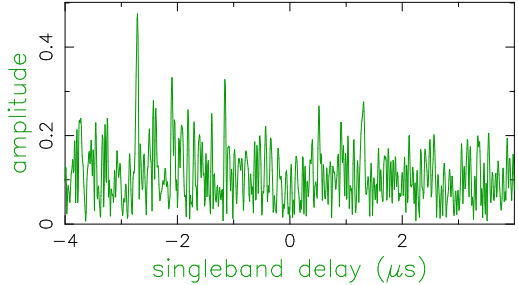
86204.00
10.5
0.6
1010.3
U/L 586/0
p 1000
P 0
p:P 0:0
p:P 0:0
p 1000
P 1000
p W06UR
P W06UL

Group delay (usec)(sbd)	-5.57264356932E+03	Apriori delay (usec)	-5.57652865062E+03	Resid mbdelay (usec)	-5.24310E-06	+/-	3.0E-03
Sband delay (usec)	-5.57264356512E+03	Apriori clock (usec)	3.1382526E+01	Resid sbdelay (usec)	3.88509E+00	+/-	3.0E-03
Phase delay (usec)	-5.57652865028E+03	Apriori clockrate (us/s)	4.4200001E-07	Resid phdelay (usec)	3.37356E-07	+/-	6.5E-07
Delay rate (us/s)	1.87821597026E+00	Apriori rate (us/s)	1.87822453508E+00	Resid rate (us/s)	-8.56482E-06	+/-	3.7E-09
Total phase (deg)	-209.1	Apriori accel (us/s/s)	2.85814745202E-05	Resid phase (deg)	-221.9	+/-	20.0

ph/seg (deg) 88.9 171.4 Search (2048X8) 0.483 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 337.8 299.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 10.0 Inc. seg. avg. 0.429 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 0.9 17.5 Inc. frq. avg. 0.622 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
p: az 89.4 el 28.9 pa -59.3 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -11166.399 374.481 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/pP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/pP.W.291.0QR3WR



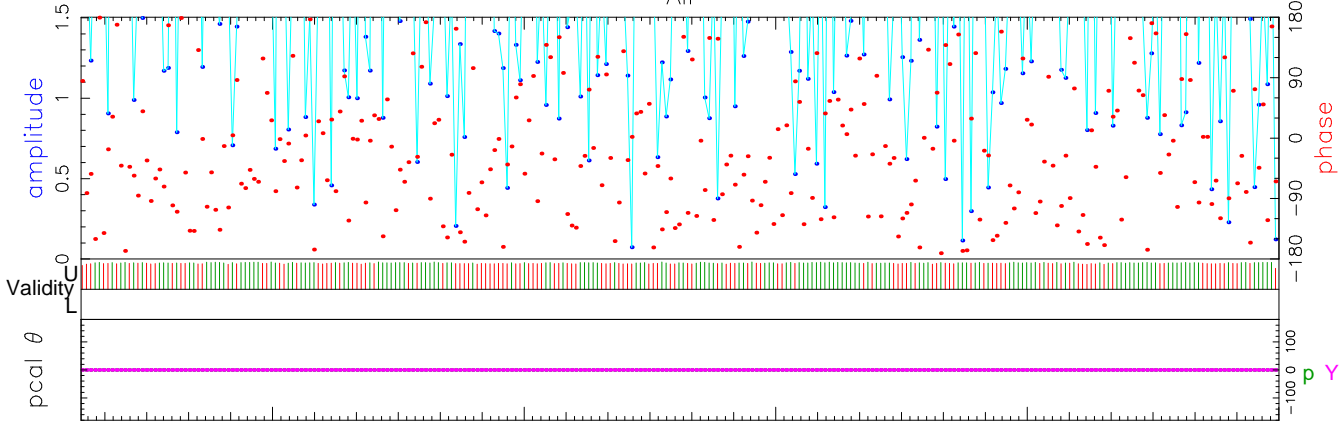
Fringe quality 0
SNR 5.4
Int time 271.915
Amp 0.501
Phase 178.3
PFD 1.0e+00
Delays (us)
SBD -2.713102
MBD 0.000007
Fringe rate (Hz)
0.334495
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-51.7
0.5
165.7
U/L 558/0
p 1000
Y 0
p:Y 0:0
p:Y 0:0
p 1000
Y 1000
p W06UL
Y W06UL

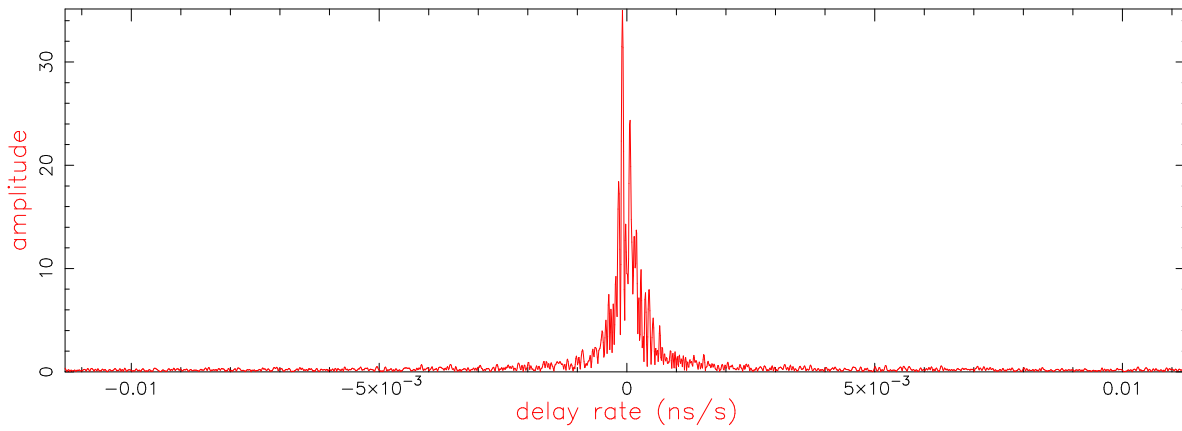
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.21569425366E+03	Apriori delay (usec)	-5.21298115013E+03	Resid mbdelay (usec)	7.23488E-06	+/-	3.2E-03
Sband delay (usec)	-5.21569425213E+03	Apriori clock (usec)	2.4283836E+01	Resid sbdelay (usec)	-2.71310E+00	+/-	3.2E-03
Phase delay (usec)	-5.21298115180E+03	Apriori clockrate (us/s)	-4.8000002E-08	Resid phdelay (usec)	-1.66848E-06	+/-	6.9E-07
Delay rate (us/s)	1.84666493071E+00	Apriori rate (us/s)	1.84666104755E+00	Resid rate (us/s)	3.88316E-06	+/-	4.2E-09
Total phase (deg)	80.2	Apriori accel (us/s/s)	2.51314053007E-05	Resid phase (deg)	178.3	+/-	21.3

ph/seg (deg)	88.8	Theor.	177.8	Amplitude	0.501 +/- 0.093	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	359.0	Search (2048X8)	0.471	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.344	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.5	Inc. frq. avg.	0.490	Inc. frq. avg.	0.490	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

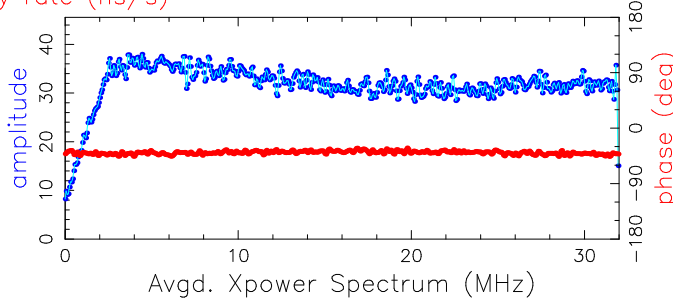
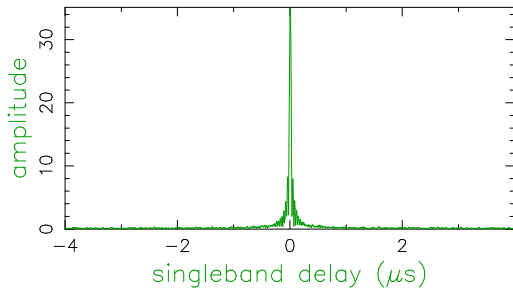
p: az 89.4 el 28.9 pa -59.3 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10982.717 -104.008 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/pY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/pY.W.222.0QR3WR



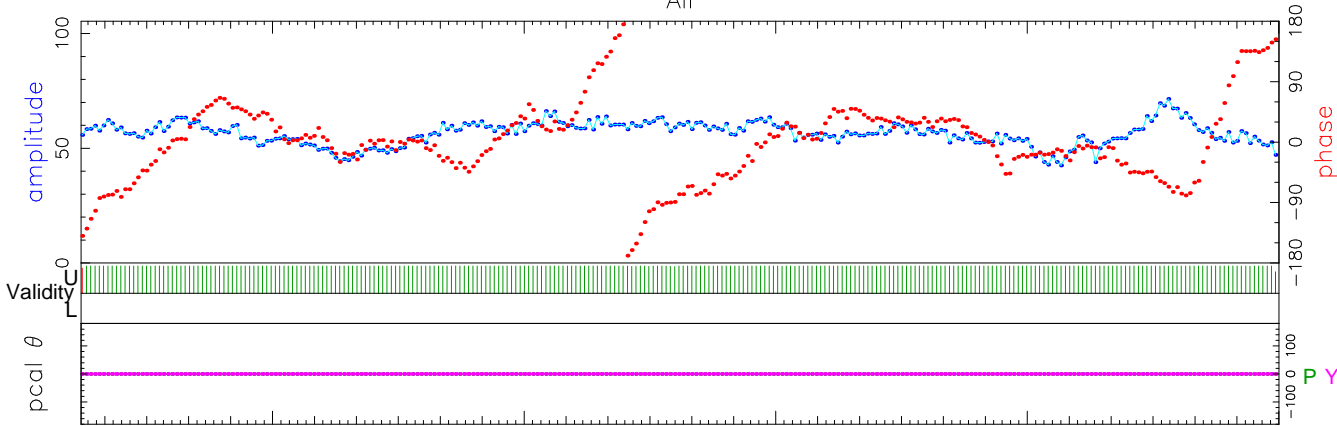
Fringe quality 5

SNR 403.5
 Int time 282.288
 Amp 35.132
 Phase -149.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.006324
 MBD -0.000006
 Fringe rate (Hz)
 -0.007823
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174213
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 -3.2
 35.0
 513.8
 U/L 558/0
 P 0
 Y 0
 P:Y 0:0
 P:Y 0:0
 P 1000
 Y 1000
 P W06UL
 Y W06UL

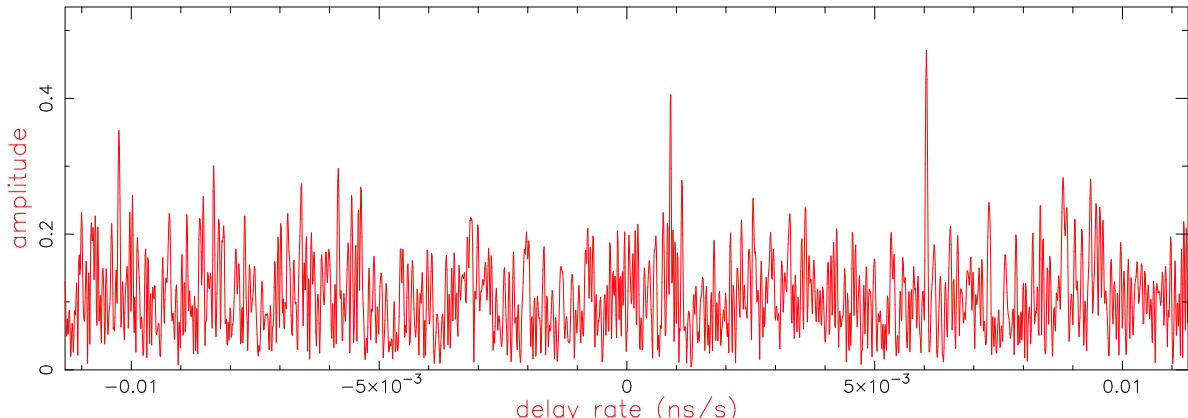
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.63553828393E+02	Apriori delay (usec)	3.63547500485E+02	Resid mbdelay (usec)	-5.90413E-06	+/-	4.3E-05
Sband delay (usec)	3.63553824985E+02	Apriori clock (usec)	-7.0986900E+00	Resid sbdelay (usec)	6.32450E-03	+/-	4.3E-05
Phase delay (usec)	3.63547500380E+02	Apriori clockrate (us/s)	-4.9000002E-07	Resid phdelay (usec)	-1.04506E-07	+/-	9.2E-09
Delay rate (us/s)	-3.15635783368E-02	Apriori rate (us/s)	-3.15634875252E-02	Resid rate (us/s)	-9.08116E-08	+/-	5.6E-11
Total phase (deg)	99.9	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-149.2	+/-	0.3

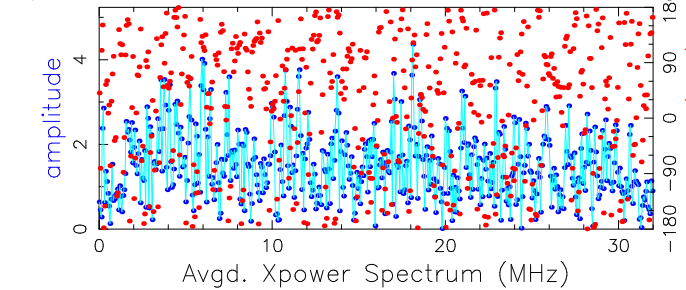
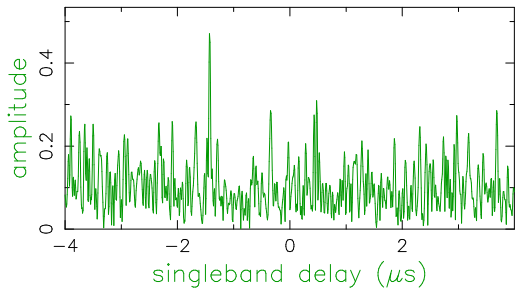
ph/seg (deg)	58.0	Theor.	2.4	Amplitude	35.132 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	62.7		4.1	Search (2048X8)	34.833	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.4		0.2	Inc. seg. avg.	56.545	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
				Inc. frq. avg.	35.006	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

P: az 249.4 el 49.9 pa 50.8 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//PY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//PY.W.226.0QR3WR

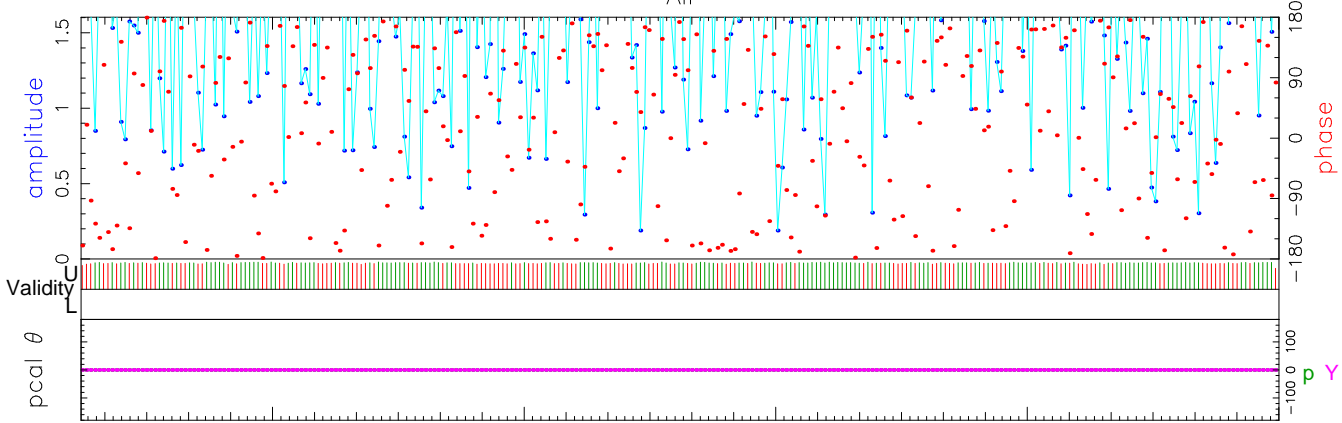


Fringe quality 0
SNR 5.3
Int time 271.909
Amp 0.535
Phase 292.0
PFD 1.0e+00
Delays (us)
SBD -1.427594
MBD 0.000006
Fringe rate (Hz)
0.520750
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
160.0 Phase
0.5 Ampl.
330.3 Sbd box
U/L 558/0 APs used
p 1000 PC freqs
Y 0 PC freqs
p:Y 0:0 PC phase
p:Y 0:0 Mani PC
p 1000 PC amp
Y 1000
p W06UR Chan ids
Y W06UR Chan ids

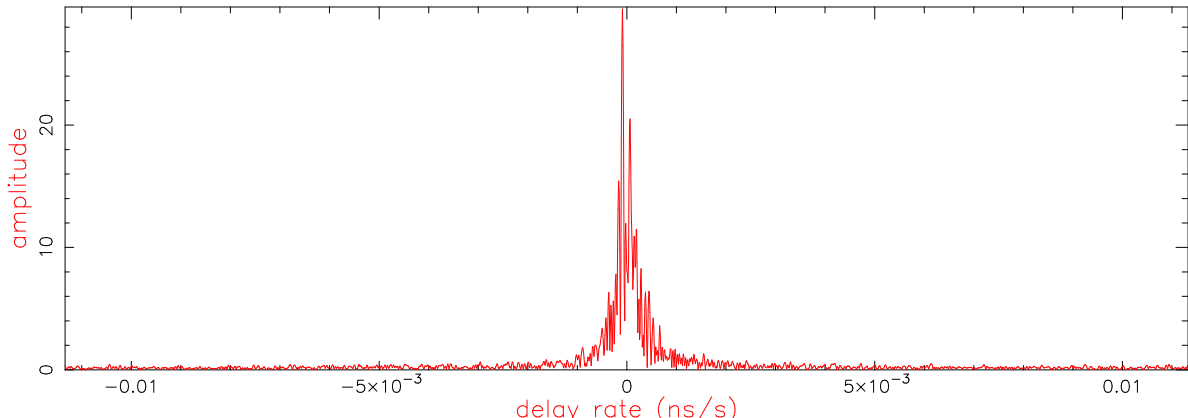
Group delay (usec)(sbd)	-5.21440874634E+03	Apriori delay (usec)	-5.21298115013E+03	Resid mbdelay (usec)	5.76307E-06	+/-	3.2E-03
Sband delay (usec)	-5.21440874413E+03	Apriori clock (usec)	2.4283836E+01	Resid sbdelay (usec)	-1.42759E+00	+/-	3.2E-03
Phase delay (usec)	-5.21298114497E+03	Apriori clockrate (us/s)	-4.8000002E-08	Resid phdelay (usec)	5.16030E-06	+/-	6.9E-07
Delay rate (us/s)	1.84666709294E+00	Apriori rate (us/s)	1.84666104755E+00	Resid rate (us/s)	6.04539E-06	+/-	4.2E-09
Total phase (deg)	193.9	Apriori accel (us/s/s)	2.51314053007E-05	Resid phase (deg)	292.0	+/-	21.4

ph/seg (deg)	92.7	Theor.	179.0	Amplitude	0.535 +/- 0.100	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	351.5	Search (2048X8)	0.467	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.356	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.522	Inc. frq. avg.	0.522	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

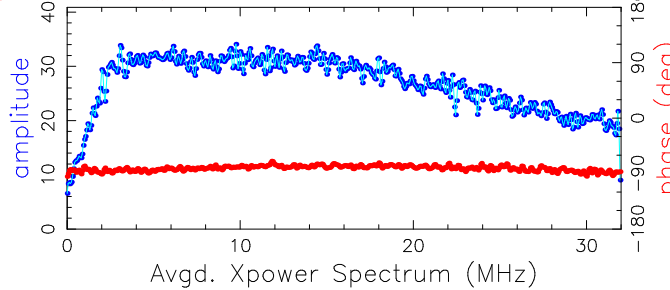
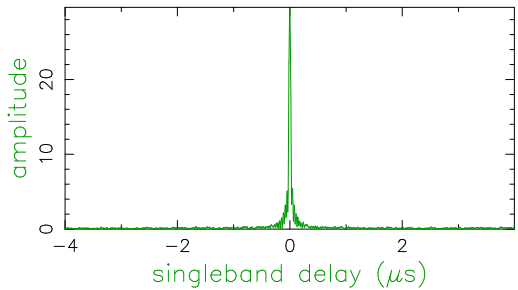
p: az 89.4 el 28.9 pa -59.3 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10982.717 -104.008 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/pY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/pY.W.232.0QR3WR

Fringe quality 5

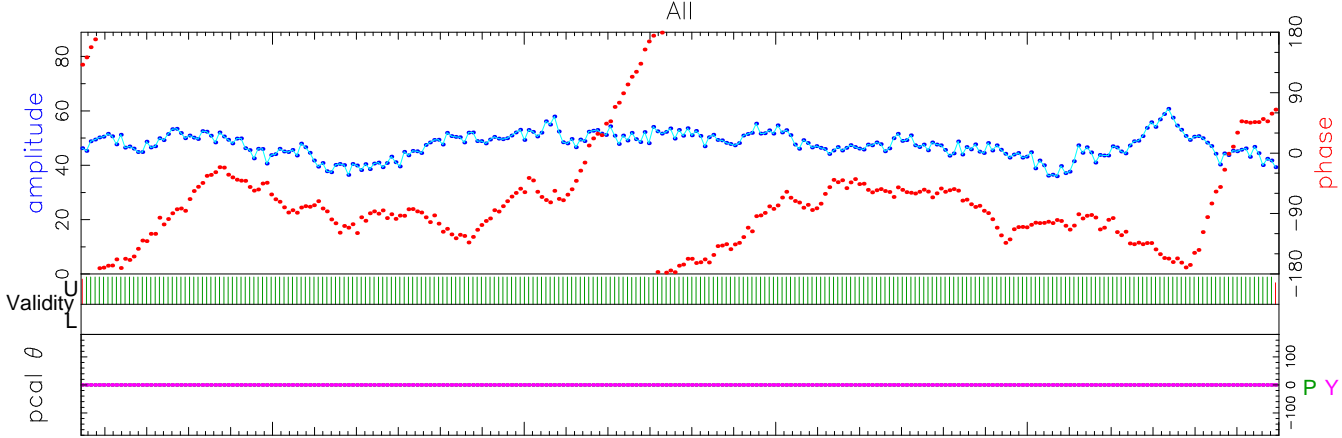


SNR 340.6
 Int time 282.288
 Amp 29.652
 Phase -45.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.002033
 MBD -0.000007
 Fringe rate (Hz)
 -0.007832
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174214
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

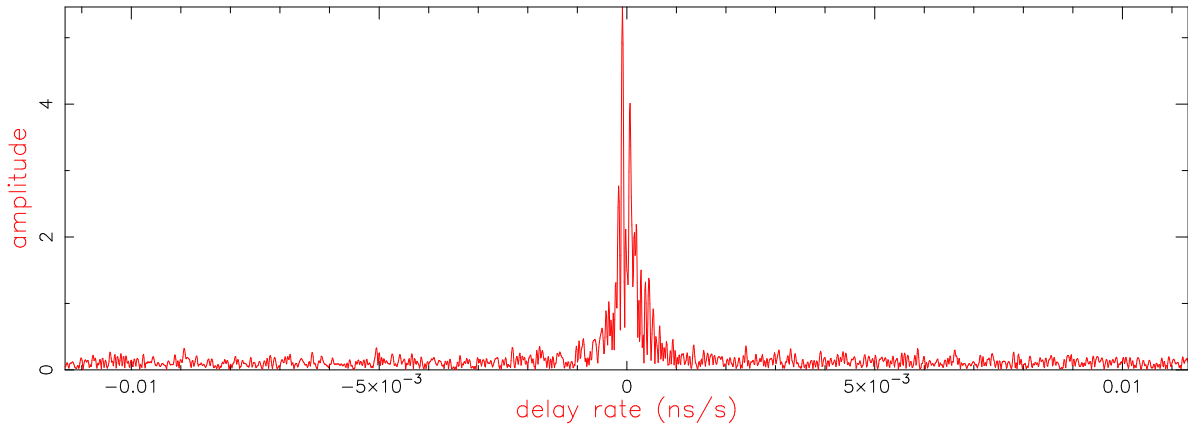
Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00	-92.1	29.5	512.7	U/L 558/0	P 0	Y 0	P:Y 0:0	P:Y 0:0	P 1000	Y 1000	P W06UR	Y W06UR	Freq (MHz)	Phase	Ampl.	Sbd box	APs used	PC freqs	PC phase	Mani PC	PC amp	Chan ids	Chan ids
----------	-------	------	-------	-----------	-----	-----	---------	---------	--------	--------	---------	---------	------------	-------	-------	---------	----------	----------	----------	---------	--------	----------	----------

Group delay (usec)(sbd)	3.63545463348E+02	Apriori delay (usec)	3.63547500485E+02	Resid mbdelay (usec)	-7.06881E-06	+/-	5.1E-05
Sband delay (usec)	3.63545467485E+02	Apriori clock (usec)	-7.0986900E+00	Resid sbdelay (usec)	-2.03300E-03	+/-	5.1E-05
Phase delay (usec)	3.63547497515E+02	Apriori clockrate (us/s)	-4.9000002E-07	Resid phdelay (usec)	-2.97016E-06	+/-	1.1E-08
Delay rate (us/s)	-3.15635784494E-02	Apriori rate (us/s)	-3.15634875252E-02	Resid rate (us/s)	-9.09242E-08	+/-	6.6E-11
Total phase (deg)	203.7	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-45.3	+/-	0.3

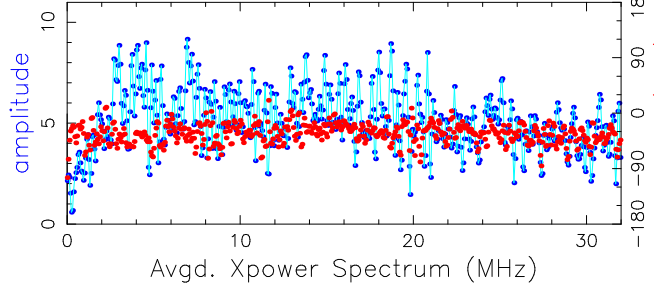
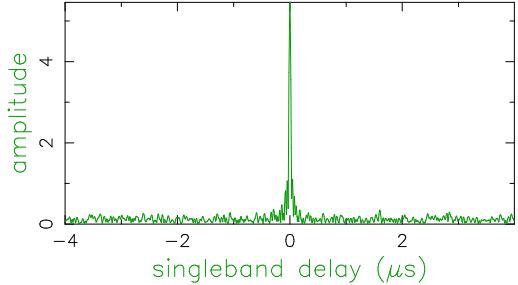
ph/seg (deg)	58.1	RMS	2.8	Theor.	2.8	Amplitude	29.652 +/- 0.087	Search (2048X8)	29.315	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	62.2	Interp.	0.000	Inc. seg. avg.	47.484	Inc. frq. avg.	29.472	u, (fr/asec)	183.682 -478.490	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	47.484	Inc. frq. avg.	29.472	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000	dr window (ns/s)	-0.011 0.011
amp/frq (%)	0.6	Inc. frq. avg.	29.472	Data rate (Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00	simultaneous interpolator	



Fringe quality 9

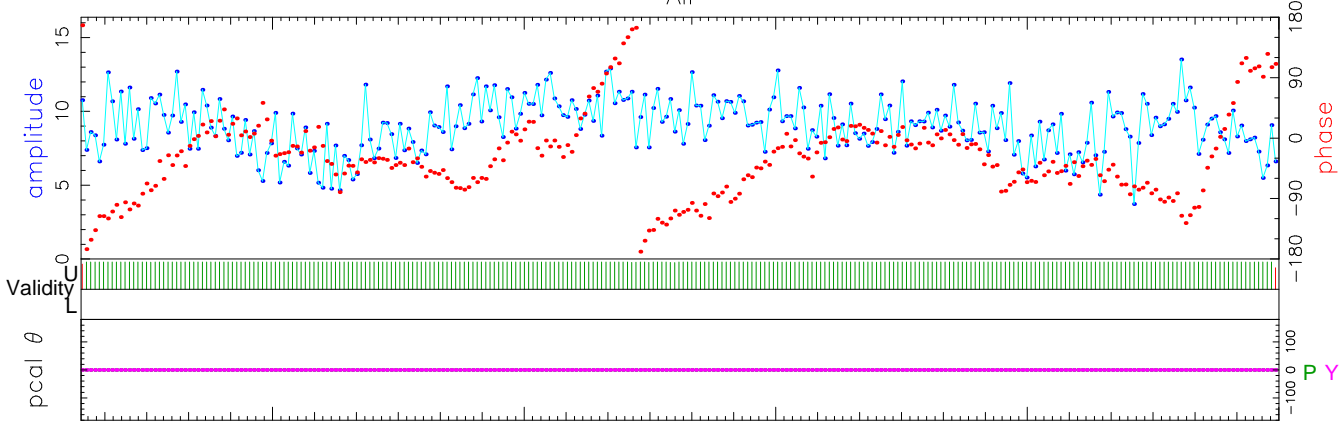
SNR 62.7
Int time 282.288
Amp 5.461
Phase -24.9
PFD 0.0e+00
Delays (us)
SBD -0.000484
MBD -0.000006
Fringe rate (Hz)
-0.007756
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp

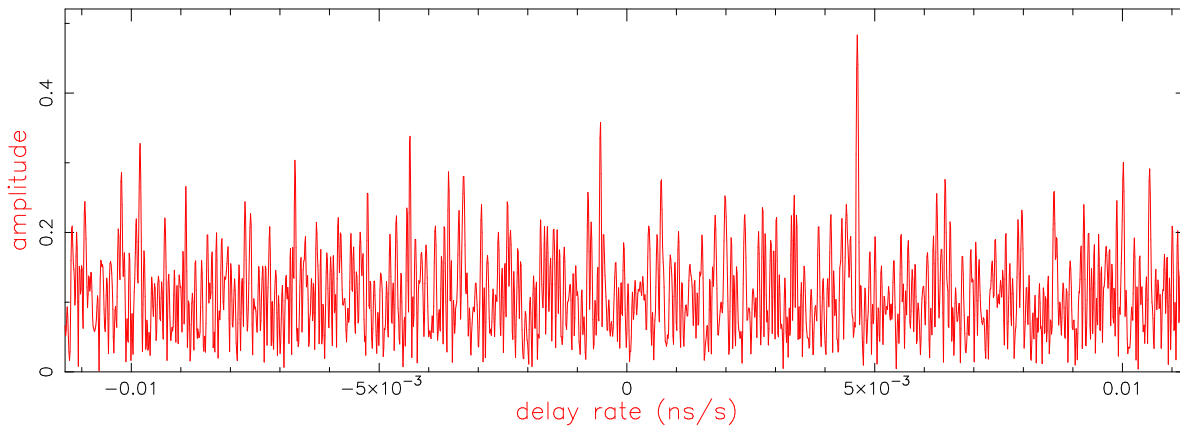
Chan ids
Chan ids

86204.00
-35.8
5.5
512.9
U/L 558/0
P 0
Y 0
P:Y 0:0
P:Y 0:0
P 1000
Y 1000
P W06UL
Y W06UR

Group delay (usec)(sbd)	3.63547019143E+02	Apriori delay (usec)	3.63547500485E+02	Resid mbdelay (usec)	-5.72558E-06	+/-	2.7E-04
Sband delay (usec)	3.63547015985E+02	Apriori clock (usec)	-7.0986900E+00	Resid sbdelay (usec)	-4.84500E-04	+/-	2.7E-04
Phase delay (usec)	3.63547499330E+02	Apriori clockrate (us/s)	-4.9000002E-07	Resid phdelay (usec)	-1.15494E-06	+/-	5.9E-08
Delay rate (us/s)	-3.15635775651E-02	Apriori rate (us/s)	-3.15634875252E-02	Resid rate (us/s)	-9.00400E-08	+/-	3.6E-10
Total phase (deg)	224.2	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-24.9	+/-	1.8

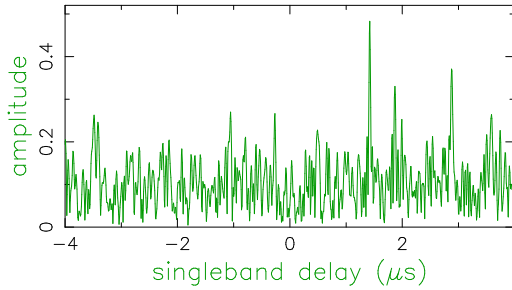
ph/seg (deg)	59.1	Theor.	15.3	Amplitude	5.461 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	73.0	RMS	26.6	Search (2048X8)	5.446	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.9	Inc. seg. avg.	8.719	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	1.6	Inc. frq. avg.	5.459	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

P: az 249.4 el 49.9 pa 50.8 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//PY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//PY.W.251.0QR3WR

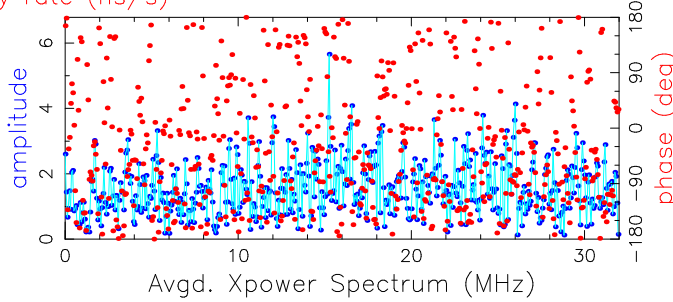


Fringe quality 0

SNR 5.5
Int time 271.915
Amp 0.521
Phase -153.1
PFD 9.9e-01
Delays (us)
SBD 1.420215
MBD 0.000007
Fringe rate (Hz)
0.399861
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

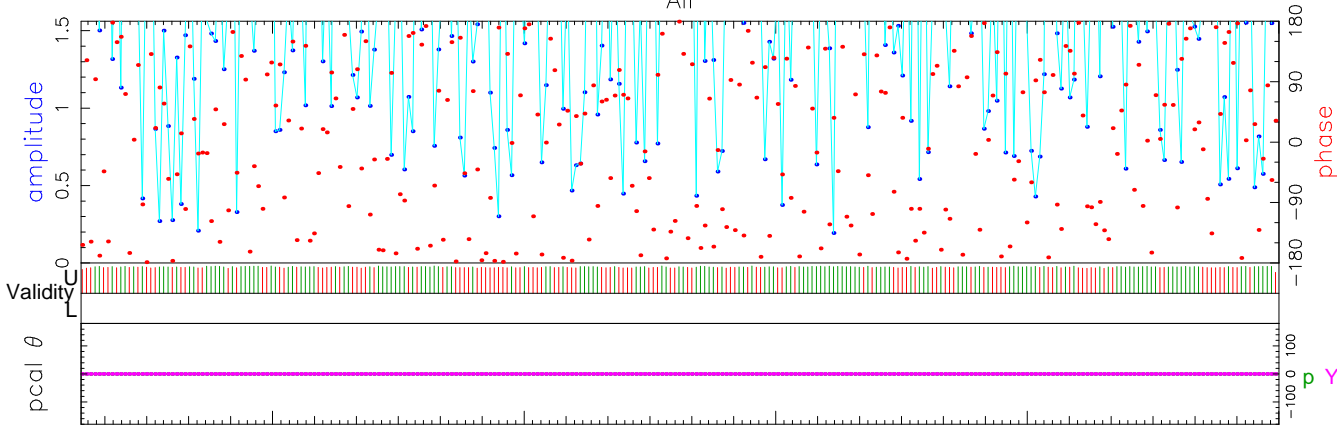


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
168.6
0.5
694.8
U/L 558/0
p 1000
Y 0
p:Y 0:0
p:Y 0:0
p 1000
Y 1000
p W06UL
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

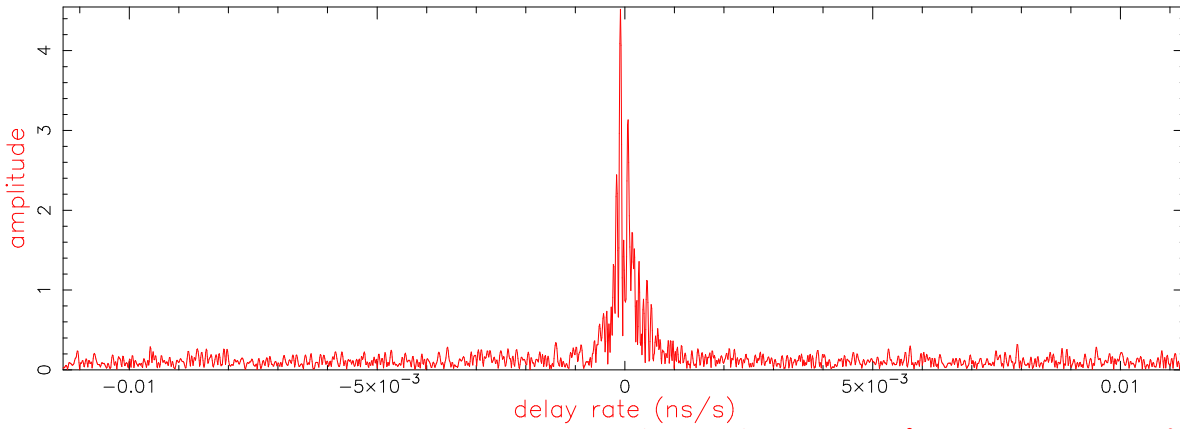
Group delay (usec)(sbd)	-5.21156093038E+03	Apriori delay (usec)	-5.21298115013E+03	Resid mbdelay (usec)	7.23632E-06	+/-	3.1E-03
Sband delay (usec)	-5.21156093513E+03	Apriori clock (usec)	2.4283836E+01	Resid sbdelay (usec)	1.42022E+00	+/-	3.1E-03
Phase delay (usec)	-5.21298114470E+03	Apriori clockrate (us/s)	-4.8000002E-08	Resid phdelay (usec)	5.43735E-06	+/-	6.8E-07
Delay rate (us/s)	1.84666568954E+00	Apriori rate (us/s)	1.84666104755E+00	Resid rate (us/s)	4.64199E-06	+/-	4.1E-09
Total phase (deg)	-251.2	Apriori accel (us/s/s)	2.51314053007E-05	Resid phase (deg)	-153.1	+/-	20.9

ph/seg (deg)	93.1	Theor.	174.9	Amplitude	0.521 +/- 0.095	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	342.8		305.2	Search (2048X8)	0.477	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		10.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.5		18.3	Inc. seg. avg.	0.349	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.510	nlags:	512	t_cohere	infinite			

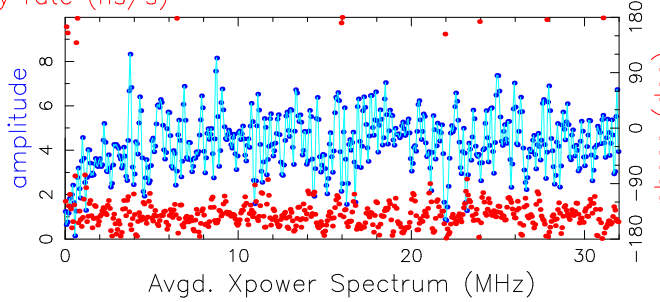
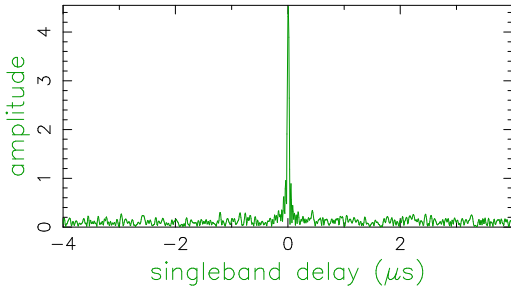
p: az 89.4 el 28.9 pa -59.3 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -10982.717 -104.008 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pY.W.256.0QR3WR

Fringe quality 9

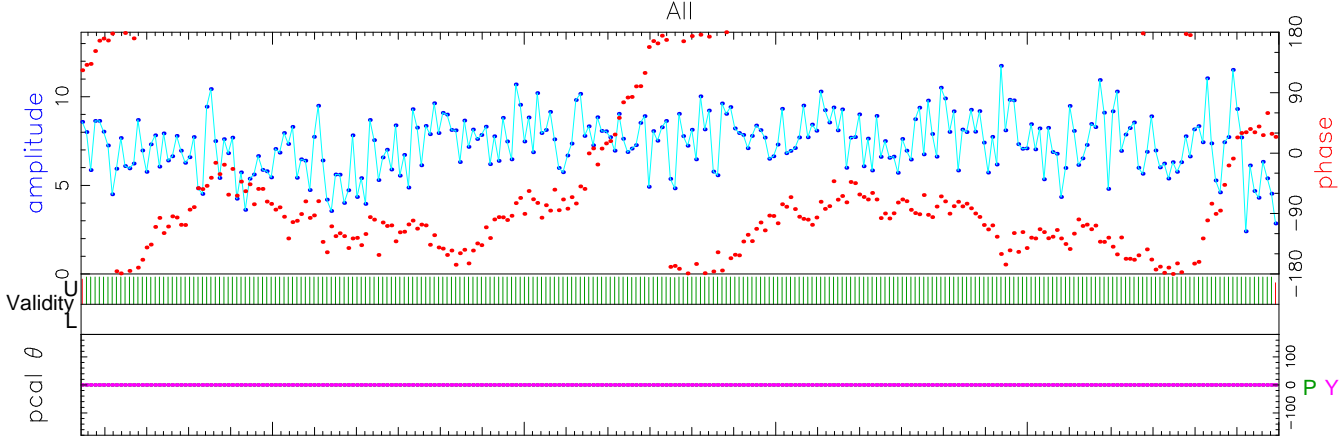


SNR 52.2
 Int time 282.288
 Amp 4.547
 Phase -243.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.005790
 MBD -0.000007
 Fringe rate (Hz)
 -0.007733
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174217
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 -110.0
 4.5
 513.7
 U/L 558/0
 P 0
 Y 0
 P:Y 0:0
 P:Y 0:0
 P 1000
 Y 1000
 P W06UR
 Y W06UL

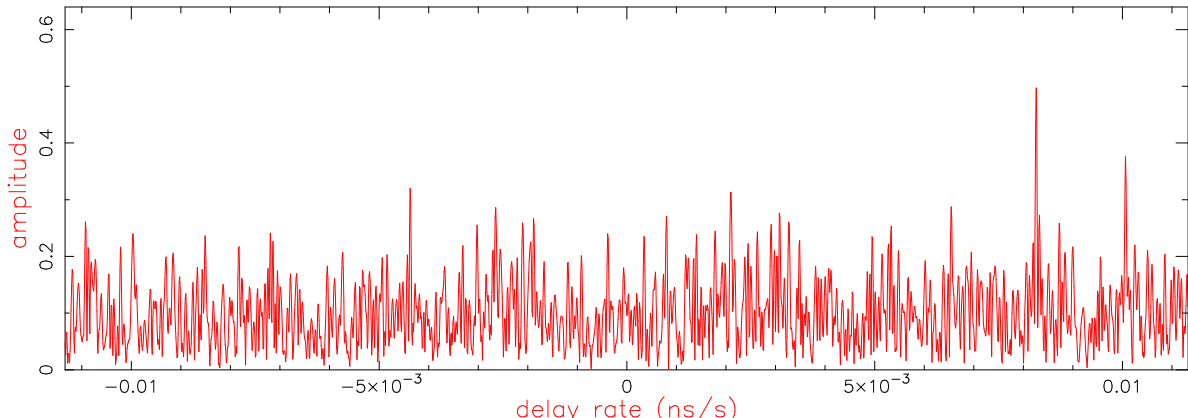
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	3.63553293463E+02	Apriori delay (usec)	3.63547500485E+02	Resid mbdelay (usec)	-7.21651E-06	+/-	3.3E-04
Sband delay (usec)	3.63553289985E+02	Apriori clock (usec)	-7.0986900E+00	Resid sbdelay (usec)	5.78950E-03	+/-	3.3E-04
Phase delay (usec)	3.63547496938E+02	Apriori clockrate (us/s)	-4.9000002E-07	Resid phdelay (usec)	-3.54692E-06	+/-	7.1E-08
Delay rate (us/s)	-3.15635772973E-02	Apriori rate (us/s)	-3.15634875252E-02	Resid rate (us/s)	-8.97721E-08	+/-	4.3E-10
Total phase (deg)	5.4	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-243.6	+/-	2.2

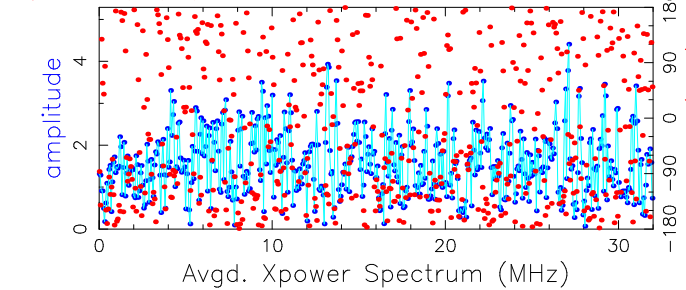
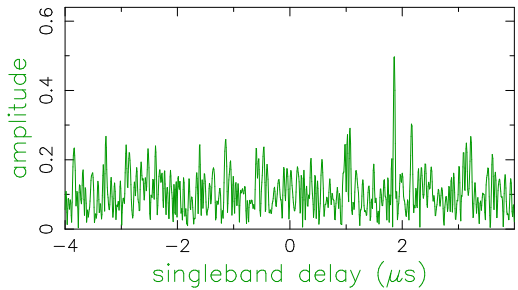
ph/seg (deg)	59.5	Theor.	18.3	Amplitude	4.547 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	70.9	Search (2048X8)	4.510	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	6.995	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.6	Inc. frq. avg.	4.518	Inc. frq. avg.	4.518	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

P: az 249.4 el 49.9 pa 50.8 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//PY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//PY.W.261.0QR3WR

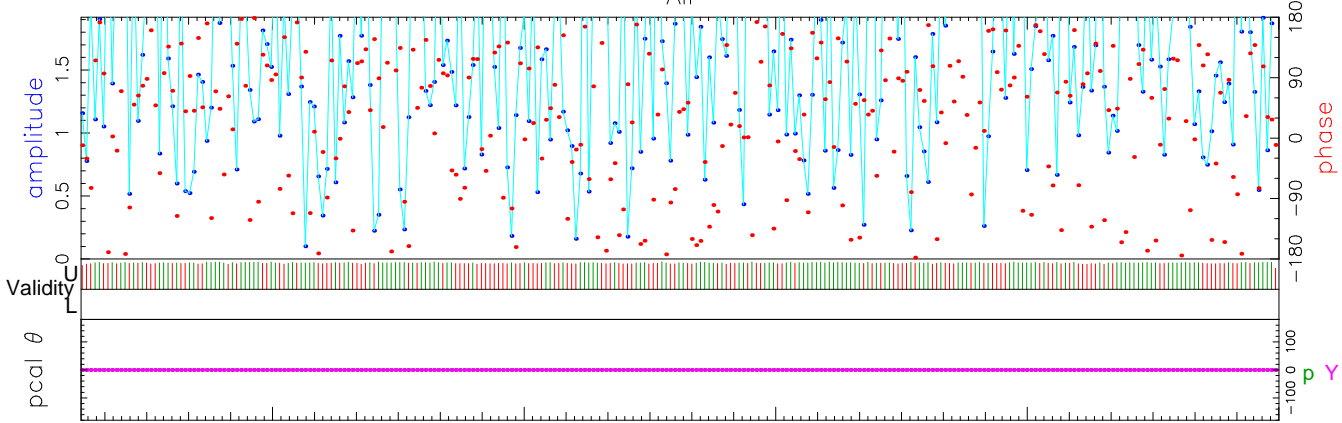


Fringe quality 0
SNR 5.7
Int time 271.909
Amp 0.640
Phase -173.7
PFD 6.9e-01
Delays (us)
SBD 1.855649
MBD 0.000007
Fringe rate (Hz)
0.710478
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



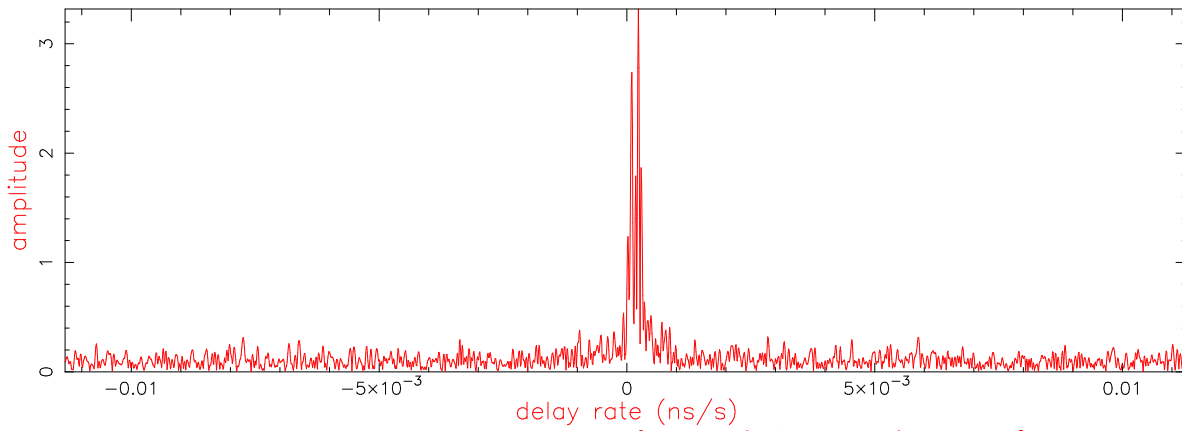
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00 Freq (MHz)
100.3 Phase
0.6 Ampl.
750.5 Sbd box
U/L 558/0 APs used
p 1000 PC freqs
Y 0 PC freqs
p:Y 0:0 PC phase
p:Y 0:0 Mani PC
p 1000 PC amp
Y 1000
p W06UR Chan ids
Y W06UL Chan ids

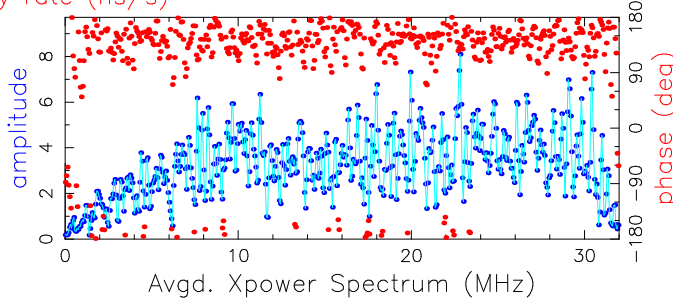
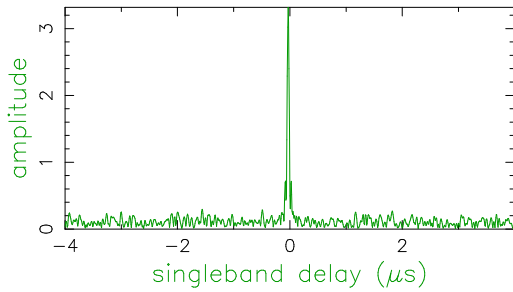
Group delay (usec)(sbd)	-5.21112549815E+03	Apriori delay (usec)	-5.21298115013E+03	Resid mbdelay (usec)	7.23400E-06	+/-	3.0E-03	
Sband delay (usec)	-5.21112550113E+03	Apriori clock (usec)	2.4283836E+01	Resid sbdelay (usec)	1.85565E+00	+/-	3.0E-03	
Phase delay (usec)	-5.21298114690E+03	Apriori clockrate (us/s)	-4.8000002E-08	Resid phdelay (usec)	3.23589E-06	+/-	6.4E-07	
Delay rate (us/s)	1.84666929550E+00	Apriori rate (us/s)	1.84666104755E+00	Resid rate (us/s)	8.24794E-06	+/-	3.9E-09	
Total phase (deg)	-271.8	Apriori accel (us/s/s)	2.51314053007E-05	Resid phase (deg)	-173.7	+/-	20.0	
RMS	Theor.	Amplitude	0.640 +/- 0.111	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
ph/seg (deg)	90.7	Search (2048X8)	0.494	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
amp/seg (%)	301.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	
ph/frq (deg)	0.0	Inc. seg. avg.	0.419	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000	
amp/frq (%)	2.4	Inc. frq. avg.	0.615	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011	
p: az 89.4 el 28.9 pa -59.3	Y: az 246.0 el 48.3 pa 46.5	u,v (fr/asec)	-10982.717 -104.008	nlags:	512	t_cohere	infinite	
				ion window (TEC)				0.00 0.00
simultaneous interpolator								
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//pY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//pY.W.267.0QR3WR								



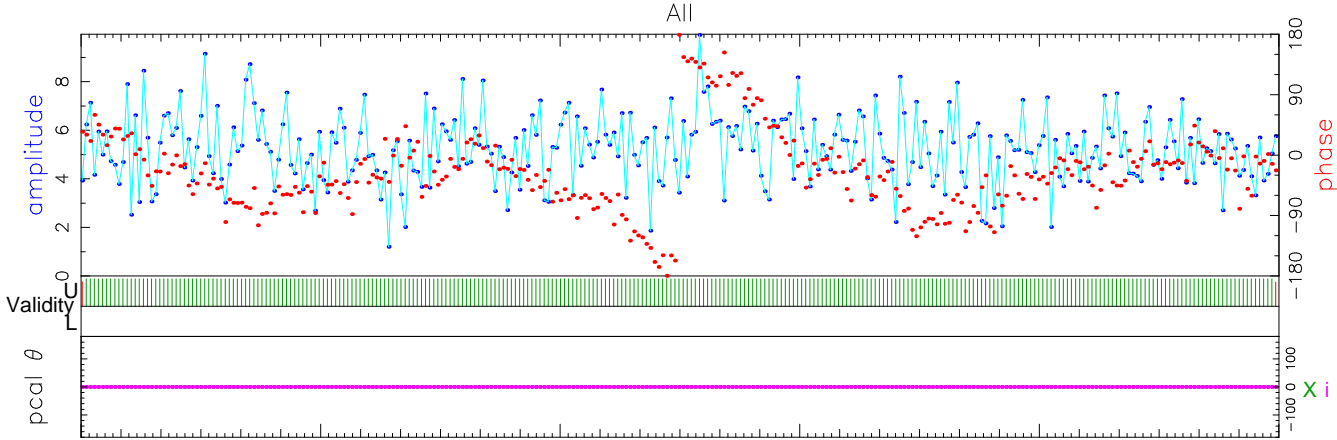
Fringe quality 9

SNR 39.3
Int time 299.796
Amp 3.319
Phase 317.3
PFD 0.0e+00
Delays (us)
SBD -0.030752
MBD 0.000006
Fringe rate (Hz)
0.020222
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174213
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
-31.3
3.3
509.1
U/L 586/0
X 0
i 0
X:i 0:0
X:i 0:0
X 1000
i 1000
X W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp

Chan ids
Chan ids

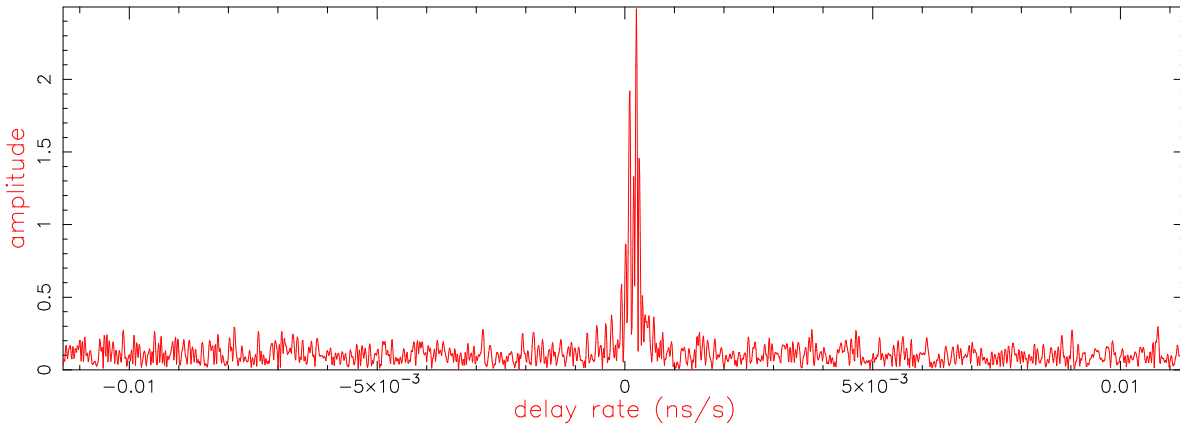
Group delay (usec)(sbd)	-4.78473474433E+03	Apriori delay (usec)	-4.78470399789E+03	Resid mbdelay (usec)	6.18876E-06	+/-	4.4E-04
Sband delay (usec)	-4.78473474989E+03	Apriori clock (usec)	2.5630024E+01	Resid sbdelay (usec)	-3.07520E-02	+/-	4.4E-04
Phase delay (usec)	-4.78470399890E+03	Apriori clockrate (us/s)	8.7699997E-07	Resid phdelay (usec)	-1.00782E-06	+/-	9.4E-08
Delay rate (us/s)	1.02212215329E-01	Apriori rate (us/s)	1.02211980568E-01	Resid rate (us/s)	2.34761E-07	+/-	5.4E-10
Total phase (deg)	181.2	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	317.3	+/-	2.9

ph/seg (deg)	58.2	Theor.	25.0	Amplitude	3.319 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	72.5	Search (2048X8)	3.287	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	4.802	Inc. seg. avg.	4.802	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	3.316	Inc. frq. avg.	3.316	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

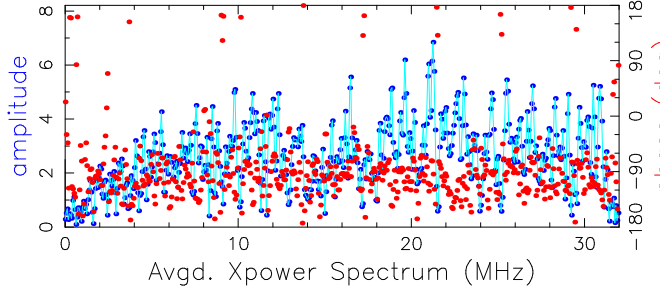
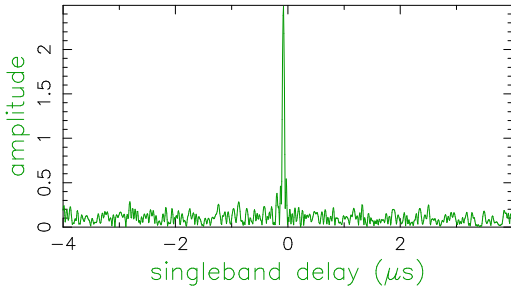
X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xi.W.224.0QR3WR

Fringe quality 9



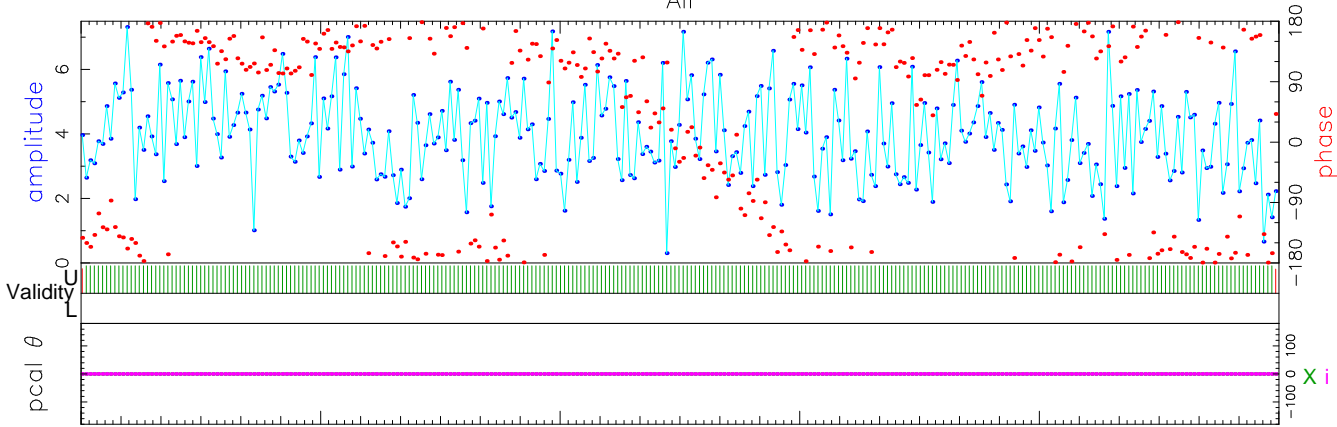
SNR 29.6
Int time 299.796
Amp 2.498
Phase 202.0
PFD 0.0e+00
Delays (us)
SBD -0.080100
MBD 0.000004
Fringe rate (Hz)
0.020276
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174214
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
156.5
2.5
502.8
U/L 586/0
X 0
i 0
X:i 0:0
X:i 0:0
X 1000
i 1000
X W06UR
i W06UR

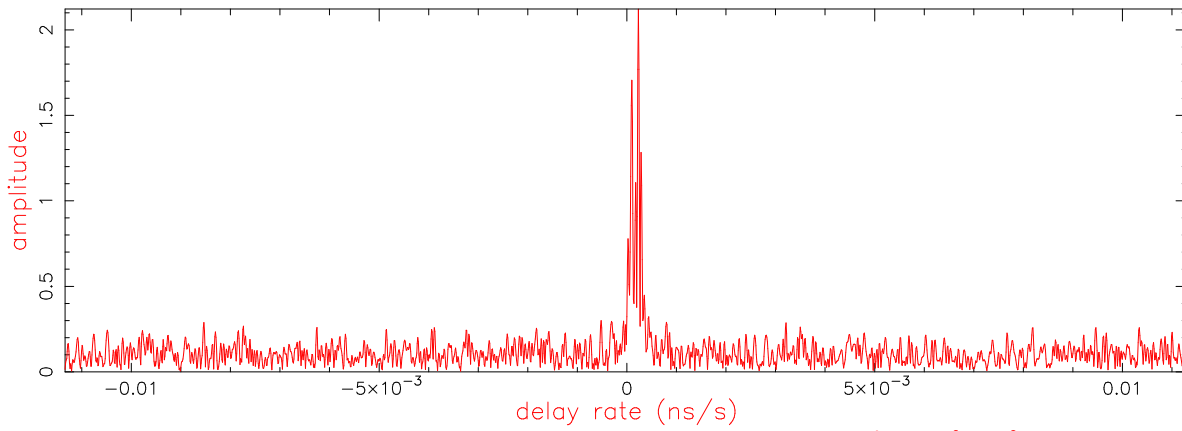
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.78478409421E+03	Apriori delay (usec)	-4.78470399789E+03	Resid mbdelay (usec)	4.36787E-06	+/-	5.8E-04
Sband delay (usec)	-4.78478409739E+03	Apriori clock (usec)	2.5630024E+01	Resid sbdelay (usec)	-8.00995E-02	+/-	5.8E-04
Phase delay (usec)	-4.78470399284E+03	Apriori clockrate (us/s)	8.7699997E-07	Resid phdelay (usec)	5.04729E-06	+/-	1.2E-07
Delay rate (us/s)	1.02212215954E-01	Apriori rate (us/s)	1.02211980568E-01	Resid rate (us/s)	2.35386E-07	+/-	7.2E-10
Total phase (deg)	66.0	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	202.0	+/-	3.9

ph/seg (deg)	59.2	Theor.	33.2	Amplitude	2.498 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	79.8		57.9	Search (2048X8)	2.451	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0		1.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.5		3.4	Inc. seg. avg.	3.402	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	2.484	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

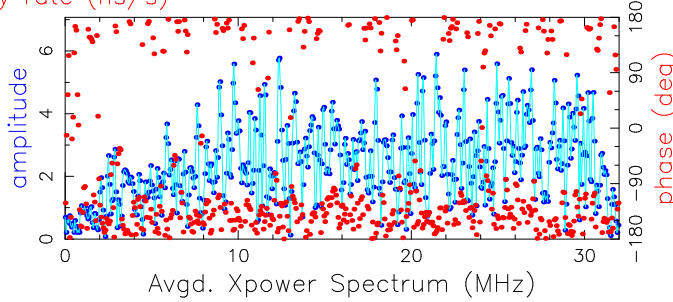
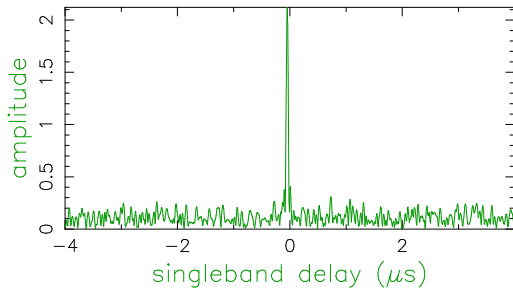
X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xi.W.236.0QR3WR



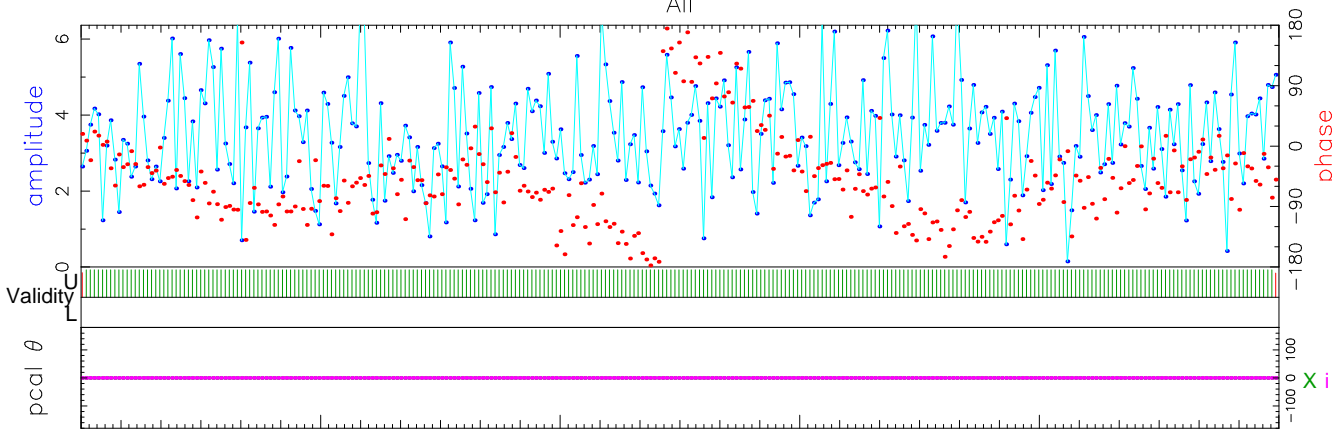
Fringe quality 9

SNR 25.1
 Int time 299.796
 Amp 2.122
 Phase 307.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.047386
 MBD 0.000004
 Fringe rate (Hz)
 0.020190
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174216
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 -64.4
 2.1
 506.9
 U/L 586/0
 X 0
 i 0
 Xi 0:0
 Xi 0:0
 X 1000
 i 1000
 X W06UL
 i W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp

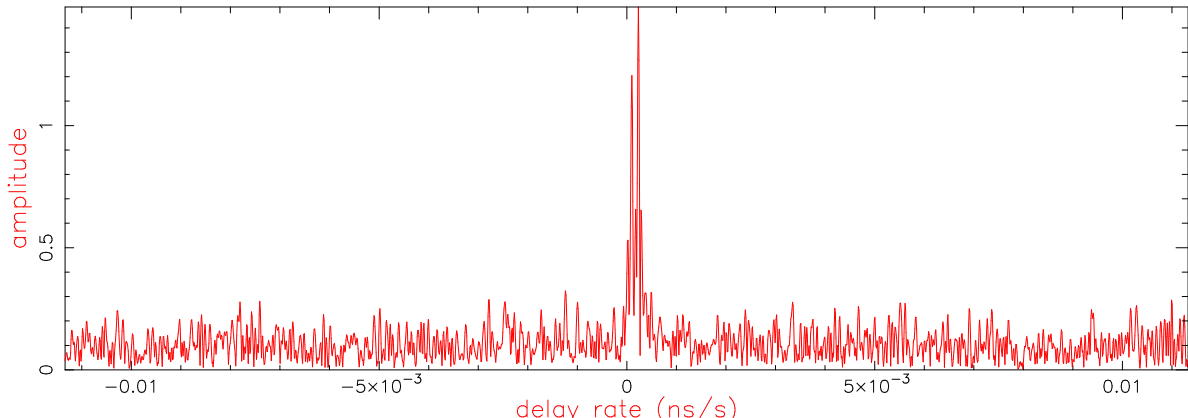
Chan ids
 Chan ids

Group delay (usec)(sbd)	-4.78475138106E+03	Apriori delay (usec)	-4.78470399789E+03	Resid mbdelay (usec)	4.41673E-06	+/- 6.9E-04
Sband delay (usec)	-4.78475138389E+03	Apriori clock (usec)	2.5630024E+01	Resid sbdelay (usec)	-4.73860E-02	+/- 6.9E-04
Phase delay (usec)	-4.78470399996E+03	Apriori clockrate (us/s)	8.7699997E-07	Resid phdelay (usec)	-2.07712E-06	+/- 1.5E-07
Delay rate (us/s)	1.02212214959E-01	Apriori rate (us/s)	1.02211980568E-01	Resid rate (us/s)	2.34392E-07	+/- 8.5E-10
Total phase (deg)	171.3	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	307.4	+/- 4.6

ph/seg (deg)	61.3	Theor.	39.0	Amplitude	2.122 +/- 0.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	90.3		68.2	Search (2048X8)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		2.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		4.0	Inc. seg. avg.	2.826	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	2.120	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

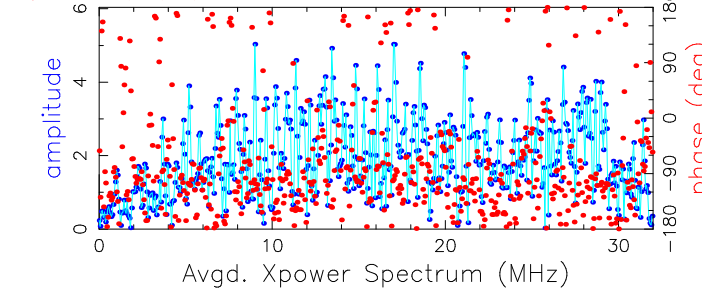
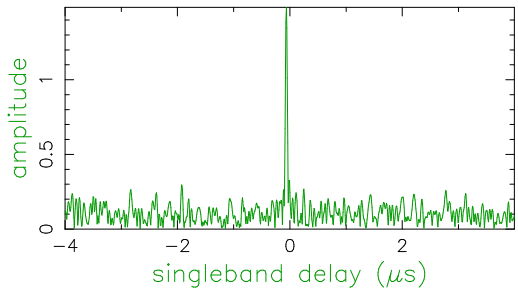
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xi.W.255.0QR3WR



Fringe quality 9

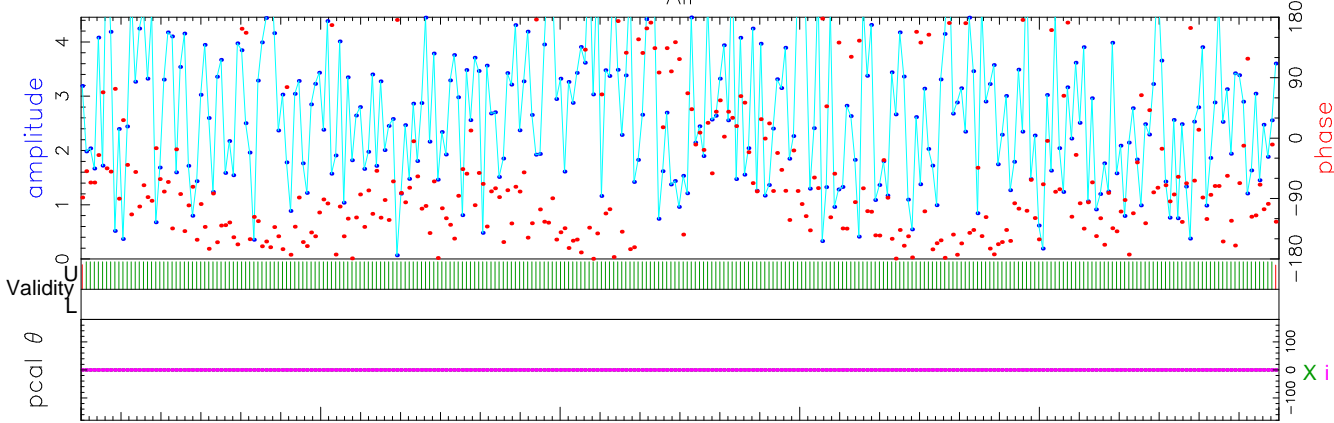
SNR 17.6
 Int time 299.796
 Amp 1.486
 Phase 262.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.063193
 MBD 0.000005
 Fringe rate (Hz)
 0.020084
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174218
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



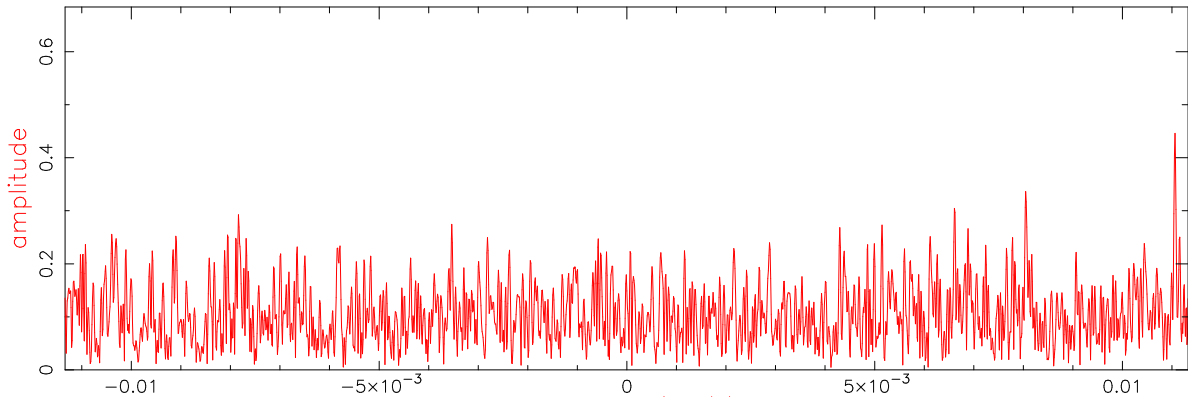
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp

Chan ids
 Chan ids

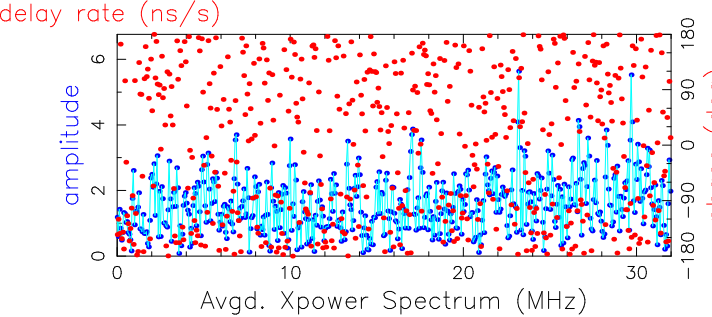
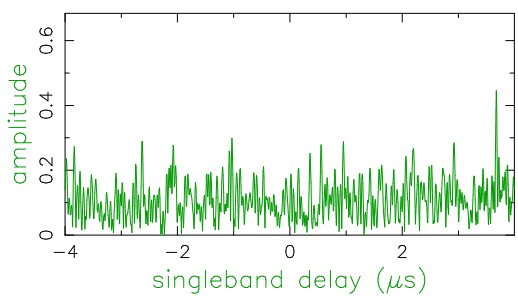
86204.00
 -113.6
 1.5
 504.9
 U/L 586/0
 X 0
 i 0
 Xi 0:0
 Xi 0:0
 X 1000
 i 1000
 X W06UR
 i W06UL

Group delay (usec)(sbd)	-4.78476719196E+03	Apriori delay (usec)	-4.78470399789E+03	Resid mbdelay (usec)	4.84989E-06	+/-	9.8E-04
Sband delay (usec)	-4.78476719039E+03	Apriori clock (usec)	2.5630024E+01	Resid sbdelay (usec)	-6.31925E-02	+/-	9.8E-04
Phase delay (usec)	-4.78470400155E+03	Apriori clockrate (us/s)	8.7699997E-07	Resid phdelay (usec)	-3.66312E-06	+/-	2.1E-07
Delay rate (us/s)	1.02212213724E-01	Apriori rate (us/s)	1.02211980568E-01	Resid rate (us/s)	2.33156E-07	+/-	1.2E-09
Total phase (deg)	126.4	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	262.5	+/-	6.5

ph/seg (deg)	RMS 69.0	Theor. 55.8	Amplitude Search (2048X8)	1.486 +/- 0.084	1.481	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	119.0	97.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	3.3	Inc. seg. avg.	1.824	1.824	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.1	5.7	Inc. frq. avg.	1.482	1.482	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00



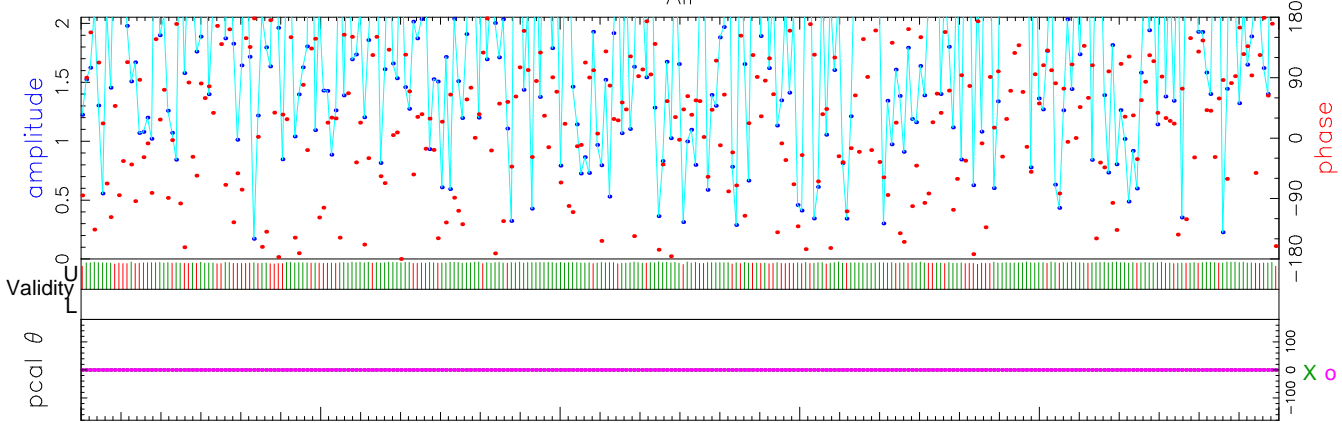
Fringe quality 0
SNR 5.2
Int time 287.772
Amp 0.684
Phase -302.2
PFD 1.0e+00
Delays (us)
SBD 3.672657
MBD 0.000006
Fringe rate (Hz)
0.951623
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174215
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



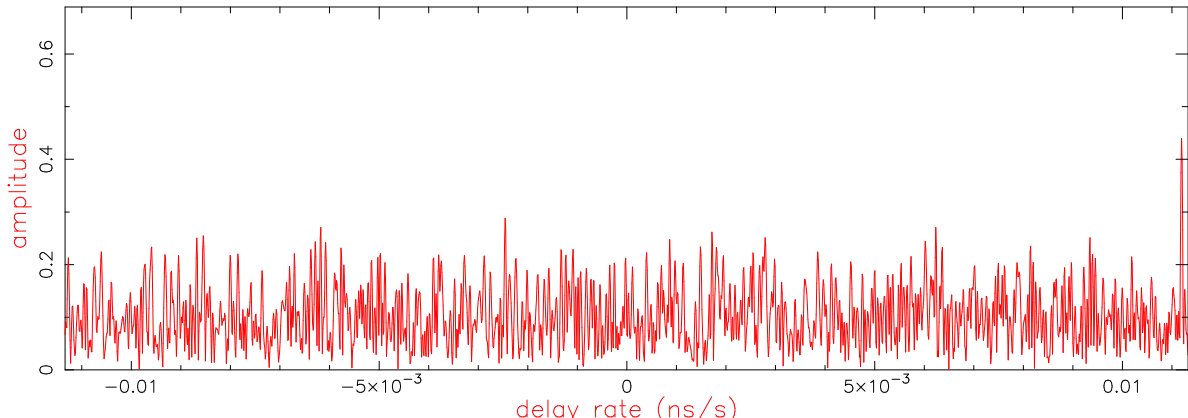
86204.00
75.7
0.7
983.1
U/L 586/0
X 0
o 1000
X:o 0:0
X:o 0:0
X 1000
o 1000
X W06UL
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

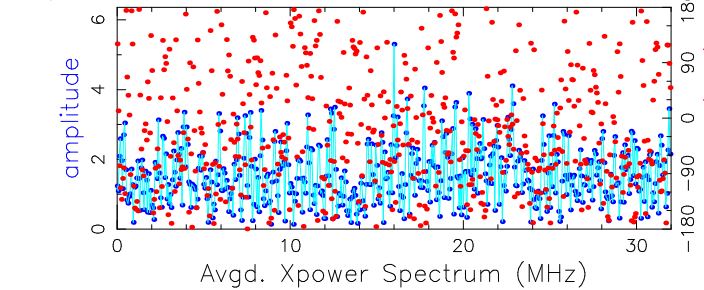
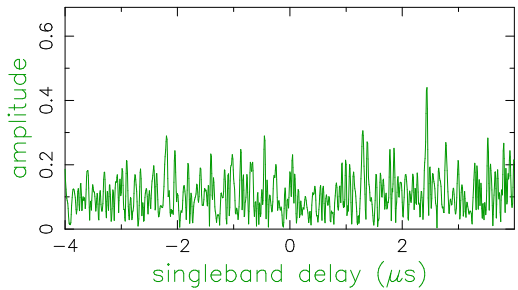
Group delay (usec)(sbd)	3.52020551541E+03	Apriori delay (usec)	3.51653286113E+03	Resid mbdelay (usec)	5.67797E-06	+/-	3.3E-03
Sband delay (usec)	3.52020551763E+03	Apriori clock (usec)	-4.2574463E+00	Resid sbdelay (usec)	3.67266E+00	+/-	3.3E-03
Phase delay (usec)	3.51653286357E+03	Apriori clockrate (us/s)	1.6044002E-07	Resid phdelay (usec)	2.43971E-06	+/-	7.1E-07
Delay rate (us/s)	-1.80755073705E+00	Apriori rate (us/s)	-1.80756178444E+00	Resid rate (us/s)	1.10474E-05	+/-	4.1E-09
Total phase (deg)	-65.4	Apriori accel (us/s/s)	-1.12220244521E-05	Resid phase (deg)	-302.2	+/-	22.1

ph/seg (deg)	RMS 91.3	Theor. 189.3	Amplitude Search (2048X8)	0.684 +/- 0.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	381.7	330.4	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000	
ph/frq (deg)	0.0	11.1	Inc. seg. avg.	0.445	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	0.1	19.3	Inc. frq. avg.	0.671	Sample rate(MSamp/s): 64	ion window (TEC)	dr window (ns/s) -0.011 0.011

X: az 247.6 el 32.5 pa 31.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10767.754 1712.029 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xo.W.242.0QR3WR

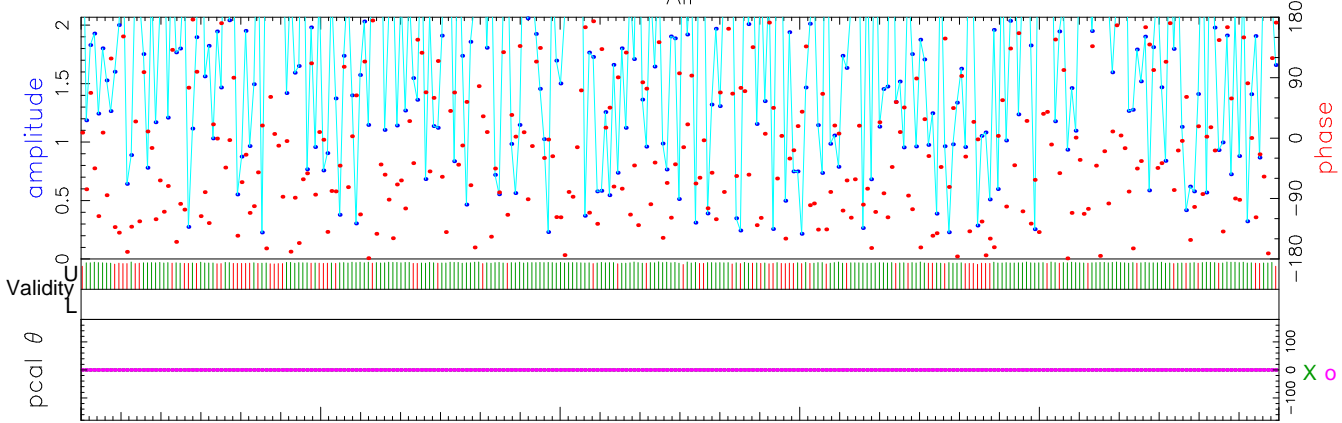


Fringe quality 0
SNR 5.2
Int time 287.774
Amp 0.690
Phase -1.6
PFD 1.0e+00
Delays (us)
SBD 2.434639
MBD 0.000007
Fringe rate (Hz) 0.963373
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



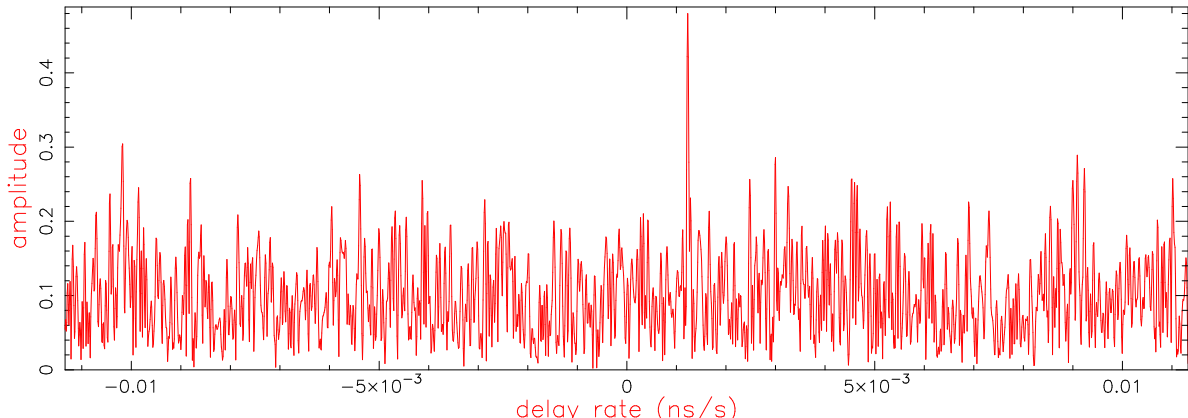
Validity
pcal θ
86204.00
-67.7
0.7
824.6
U/L 586/0
X 0
o 1000
X:o 0:0
X:o 0:0
X 1000
o 1000
X W06UR
o W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

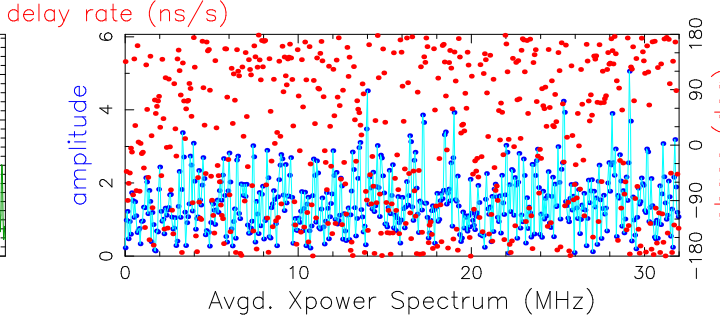
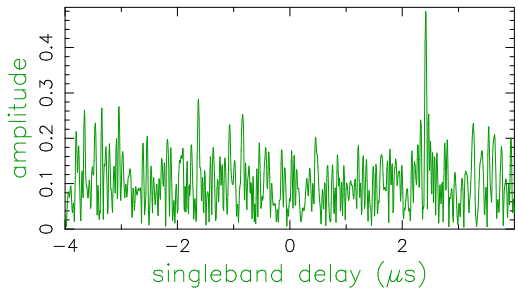
Group delay (usec)(sbd)	3.51896749996E+03	Apriori delay (usec)	3.51653286113E+03	Resid mbdelay (usec)	7.02668E-06	+/-	3.3E-03
Sband delay (usec)	3.51896749963E+03	Apriori clock (usec)	-4.2574463E+00	Resid sbdelay (usec)	2.43464E+00	+/-	3.3E-03
Phase delay (usec)	3.51653285895E+03	Apriori clockrate (us/s)	1.6044002E-07	Resid phdelay (usec)	-2.18363E-06	+/-	7.2E-07
Delay rate (us/s)	-1.80755060064E+00	Apriori rate (us/s)	-1.80756178444E+00	Resid rate (us/s)	1.11838E-05	+/-	4.1E-09
Total phase (deg)	-124.8	Apriori accel (us/s/s)	-1.12220244521E-05	Resid phase (deg)	-1.6	+/-	22.2

ph/seg (deg)	90.1	Theor.	190.1	Amplitude	0.690 +/- 0.134	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	364.3	Search (2048X8)	0.436	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.425	Inc. seg. avg.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	1.2	Inc. frq. avg.	0.669	Inc. frq. avg.	0.669	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000

X: az 247.6 el 32.5 pa 31.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10767.754 1712.029 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xo.W.253.0QR3WR

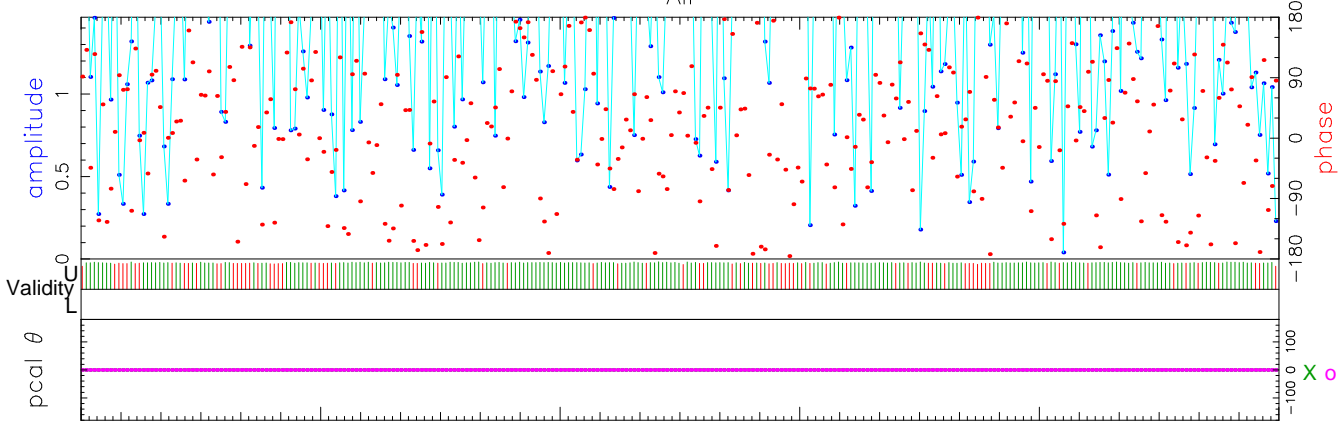


Fringe quality 0
SNR 5.6
Int time 287.774
Amp 0.489
Phase -201.2
PFD 8.7e-01
Delays (us)
SBD 2.417227
MBD 0.000007
Fringe rate (Hz)
0.105375
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
51.6
0.5
822.4
U/L 586/0
X 0
o 1000
X:o 0:0
X:o 0:0
X 1000
o 1000
X W06UL
o W06UR

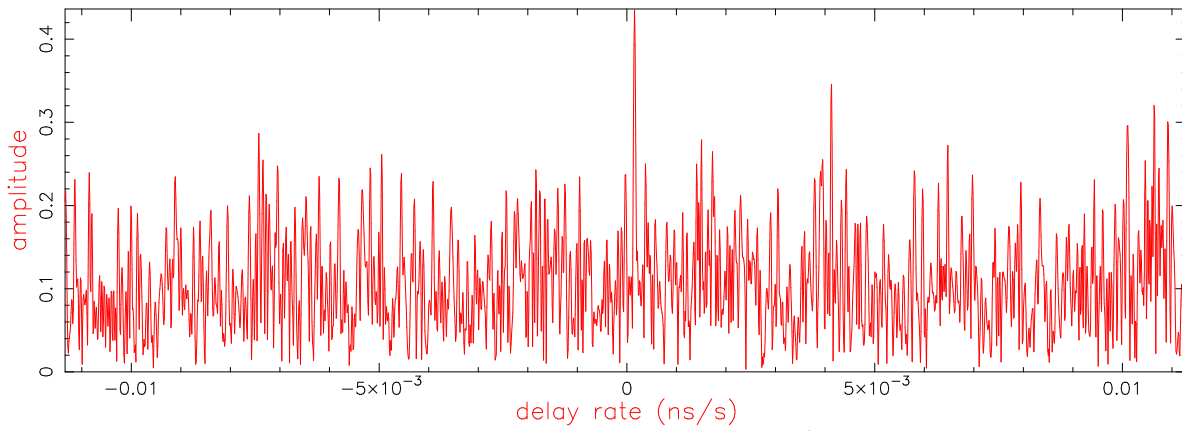
Validity
pcal θ

822.4
586/0
0
0:0
0:0
1000
1000
W06UL
W06UR

Chan ids
Chan ids

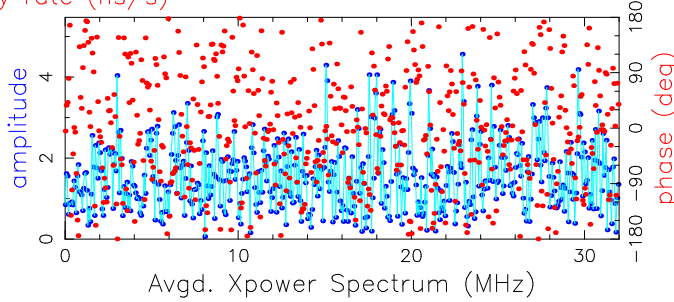
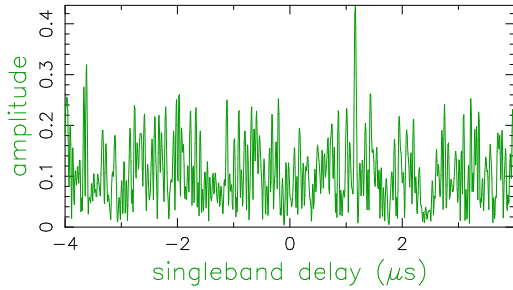
Group delay (usec)(sbd)	3.51895008740E+03	Apriori delay (usec)	3.51653286113E+03	Resid mbdelay (usec)	6.64712E-06	+/-	3.1E-03
Sband delay (usec)	3.51895008763E+03	Apriori clock (usec)	-4.2574463E+00	Resid sbdelay (usec)	2.41723E+00	+/-	3.1E-03
Phase delay (usec)	3.51653286279E+03	Apriori clockrate (us/s)	1.6044002E-07	Resid phdelay (usec)	1.66319E-06	+/-	6.6E-07
Delay rate (us/s)	-1.80756056114E+00	Apriori rate (us/s)	-1.80756178444E+00	Resid rate (us/s)	1.22330E-06	+/-	3.8E-09
Total phase (deg)	-324.4	Apriori accel (us/s/s)	-1.12220244521E-05	Resid phase (deg)	-201.2	+/-	20.3

ph/seg (deg) 92.6 173.9 Search (2048X8) 0.462 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 317.6 303.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 0.0 10.2 Inc. seg. avg. 0.313 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 1.3 17.7 Inc. frq. avg. 0.475 Data rate(Mb/s): 128 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
X: az 247.6 el 32.5 pa 31.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10767.754 1712.029 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xo.W.263.0QR3WR



Fringe quality 0

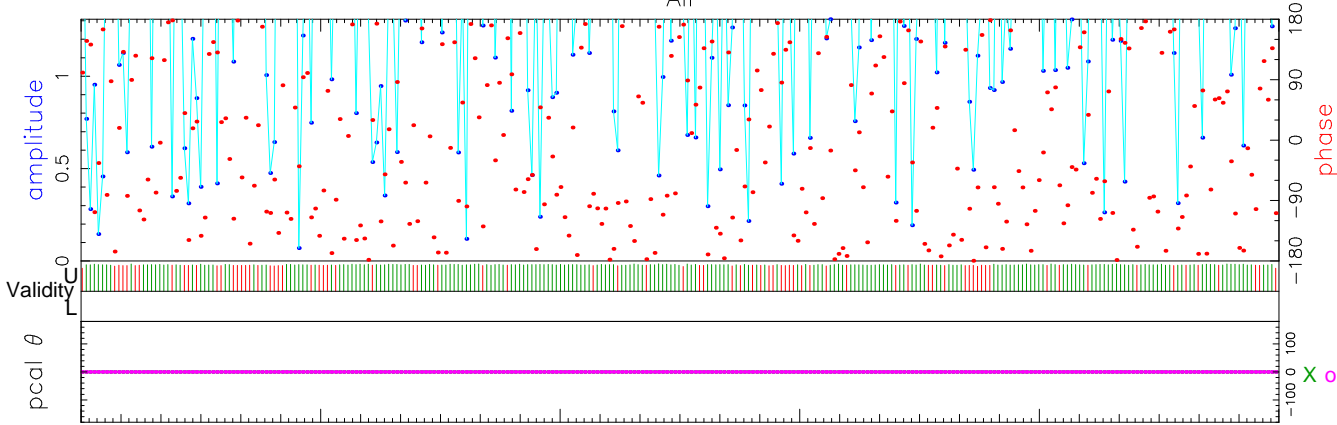
SNR 5.1
Int time 287.772
Amp 0.436
Phase -282.3
PFD 1.0e+00
Delays (us)
SBD 1.162383
MBD 0.000005
Fringe rate (Hz)
0.012957
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174218
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-141.0
0.4
661.8
U/L 586/0
X 0
o 1000
X:o 0:0
X:o 0:0
X 1000
o 1000
X W06UR
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

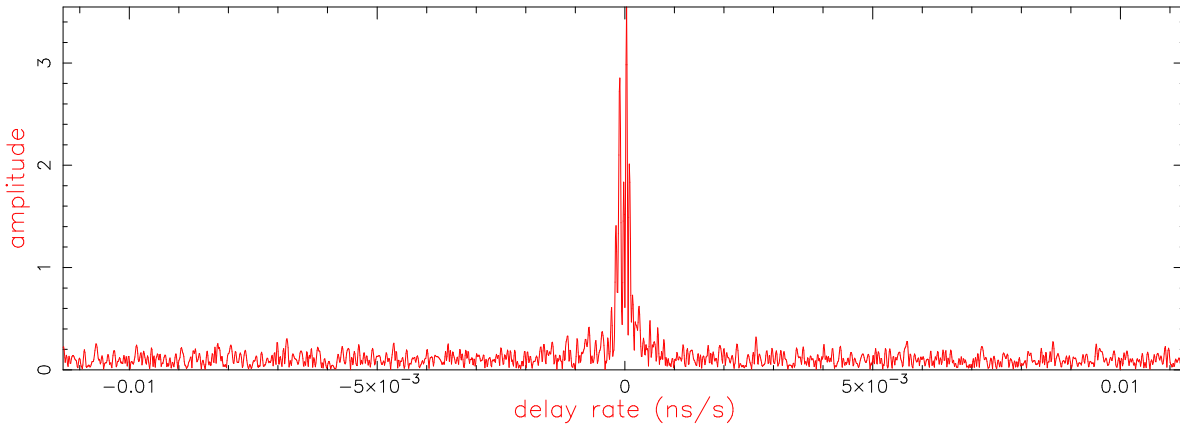
Group delay (usec)(sbd)	3.51769524797E+03	Apriori delay (usec)	3.51653286113E+03	Resid mbdelay (usec)	4.58591E-06	+/- 3.4E-03
Sband delay (usec)	3.51769524413E+03	Apriori clock (usec)	-4.2574463E+00	Resid sbdelay (usec)	1.16238E+00	+/- 3.4E-03
Phase delay (usec)	3.51653285658E+03	Apriori clockrate (us/s)	1.6044002E-07	Resid phdelay (usec)	-4.54658E-06	+/- 7.3E-07
Delay rate (us/s)	-1.80756163403E+00	Apriori rate (us/s)	-1.80756178444E+00	Resid rate (us/s)	1.50414E-07	+/- 4.2E-09
Total phase (deg)	-45.5	Apriori accel (us/s/s)	-1.12220244521E-05	Resid phase (deg)	-282.3	+/- 22.6

ph/seg (deg)	RMS 90.7	Theor. 193.8	Amplitude 0.436 +/- 0.086	Search (2048X8) 0.426	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000	
amp/seg (%)	388.5	338.3	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	11.3	Inc. seg. avg. 0.274	0.274	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.3	19.8	Inc. frq. avg. 0.427	0.427	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

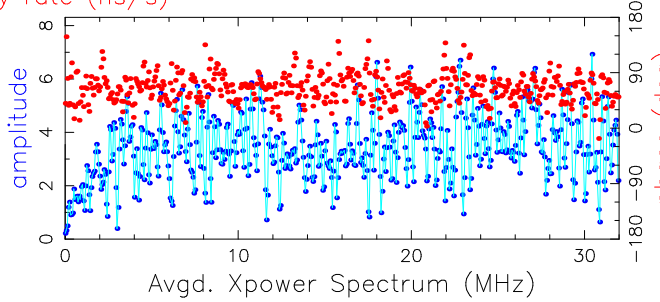
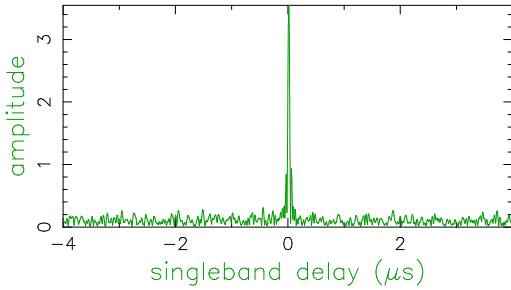
X: az 247.6 el 32.5 pa 31.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10767.754 1712.029 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xo.W.273.0QR3WR

Fringe quality 9

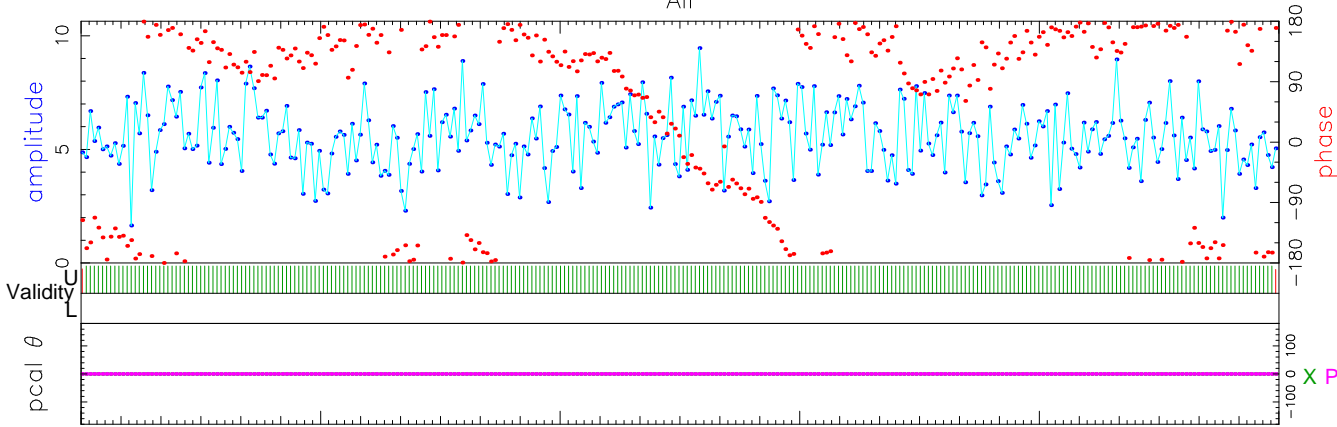


SNR 41.8
 Int time 296.612
 Amp 3.547
 Phase -202.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.015491
 MBD 0.000001
 Fringe rate (Hz)
 0.003050
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174215
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 154.2
 3.5
 515.0
 U/L 586/0
 X 0
 P 0
 X:P 0:0
 X:P 0:0
 X 1000
 P 1000
 X W06UL
 P W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-4.78517282075E+03	Apriori delay (usec)	-4.78518830789E+03	Resid mbdelay (usec)	6.16901E-07	+/-	4.1E-04
Sband delay (usec)	-4.78517281639E+03	Apriori clock (usec)	2.5145716E+01	Resid sbdelay (usec)	1.54915E-02	+/-	4.1E-04
Phase delay (usec)	-4.78518830291E+03	Apriori clockrate (us/s)	1.0770000E-06	Resid phdelay (usec)	4.97316E-06	+/-	8.8E-08
Delay rate (us/s)	1.02212215975E-01	Apriori rate (us/s)	1.02212180568E-01	Resid rate (us/s)	3.54073E-08	+/-	5.1E-10
Total phase (deg)	-145.5	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	-202.6	+/-	2.7

ph/seg (deg)	57.6	Theor.	23.5	Amplitude	3.547 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	69.8		41.0	Search (2048X8)	3.523	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		1.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0		2.4	Inc. seg. avg.	5.145	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
				Inc. frq. avg.	3.546	Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

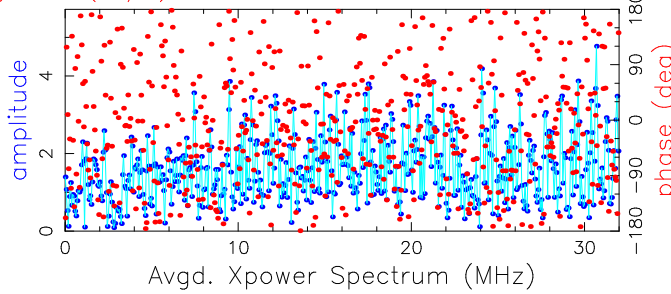
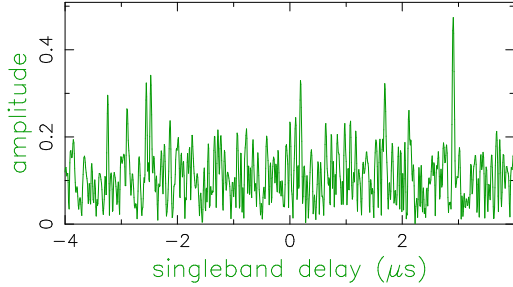
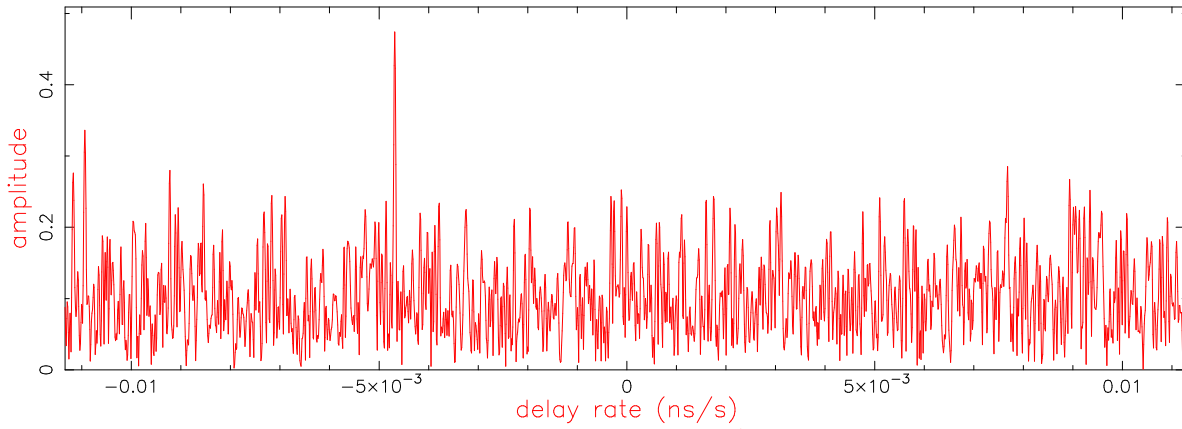
X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XP.W.243.0QR3WR

Fringe quality 0

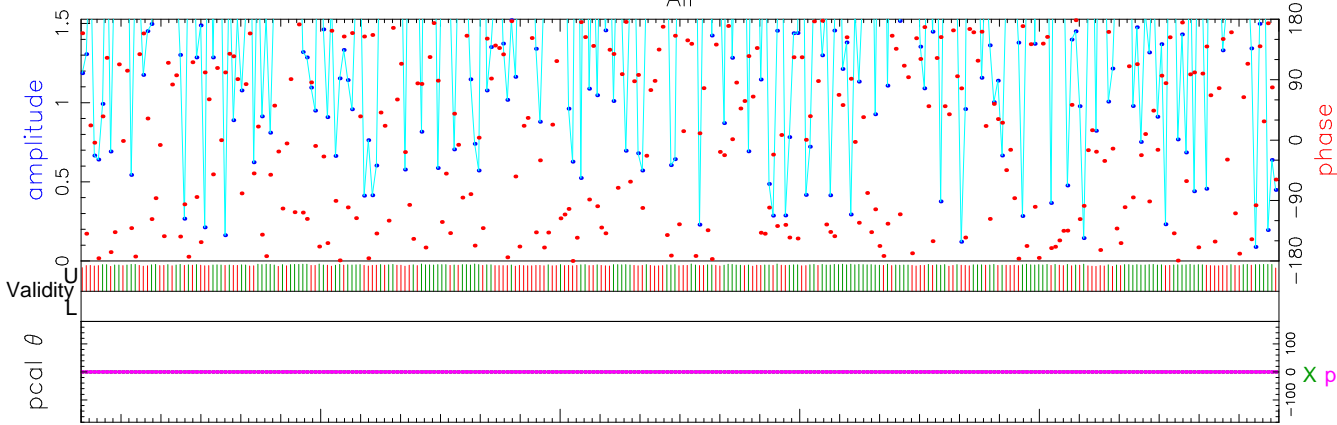
SNR 5.5
Int time 285.684
Amp 0.509
Phase -191.8
PFD 9.9e-01
Delays (us)
SBD 2.905845
MBD -0.000005
Fringe rate (Hz)
-0.403316
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174215
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
159.0
0.5
885.0
U/L 586/0
X 0
p 1000
X:p 0:0
X:p 0:0
X 1000
p 1000
X W06UL
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp

Chan ids
Chan ids

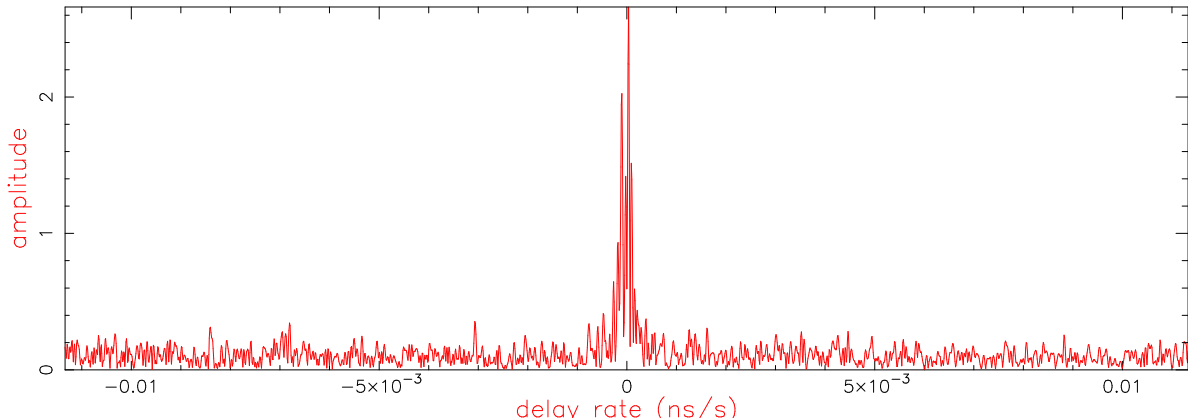
Group delay (usec)(sbd)	7.94246188766E+02	Apriori delay (usec)	7.91340342731E+02	Resid mbdelay (usec)	-5.20161E-06	+/-	3.1E-03
Sband delay (usec)	7.94246187731E+02	Apriori clock (usec)	-6.2368097E+00	Resid sbdelay (usec)	2.90584E+00	+/-	3.1E-03
Phase delay (usec)	7.91340347858E+02	Apriori clockrate (us/s)	6.3499997E-07	Resid phdelay (usec)	5.12710E-06	+/-	6.7E-07
Delay rate (us/s)	-1.77601703661E+00	Apriori rate (us/s)	-1.77601235451E+00	Resid rate (us/s)	-4.68210E-06	+/-	3.9E-09
Total phase (deg)	-147.6	Apriori accel (us/s/s)	4.56415516622E-06	Resid phase (deg)	-191.8	+/-	20.9

ph/seg (deg)	89.2	Theor.	179.0	Amplitude	0.509 +/- 0.093	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	321.8	Search (2048X8)	0.470	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.313	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.0	Inc. frq. avg.	0.501	Inc. frq. avg.	0.501	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

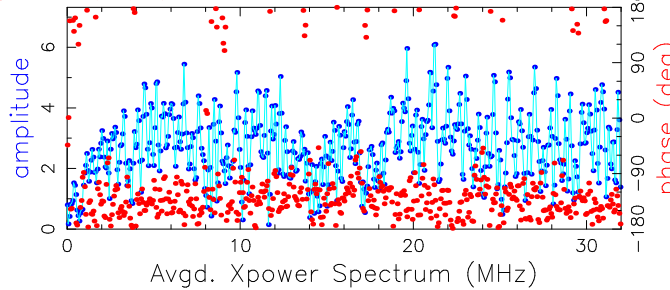
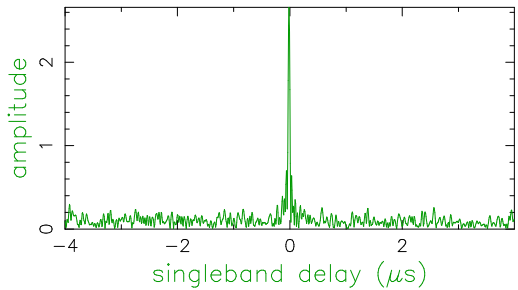
X: az 247.6 el 32.5 pa 31.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10599.694 2426.227 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xp.W.246.0QR3WR

Fringe quality 9

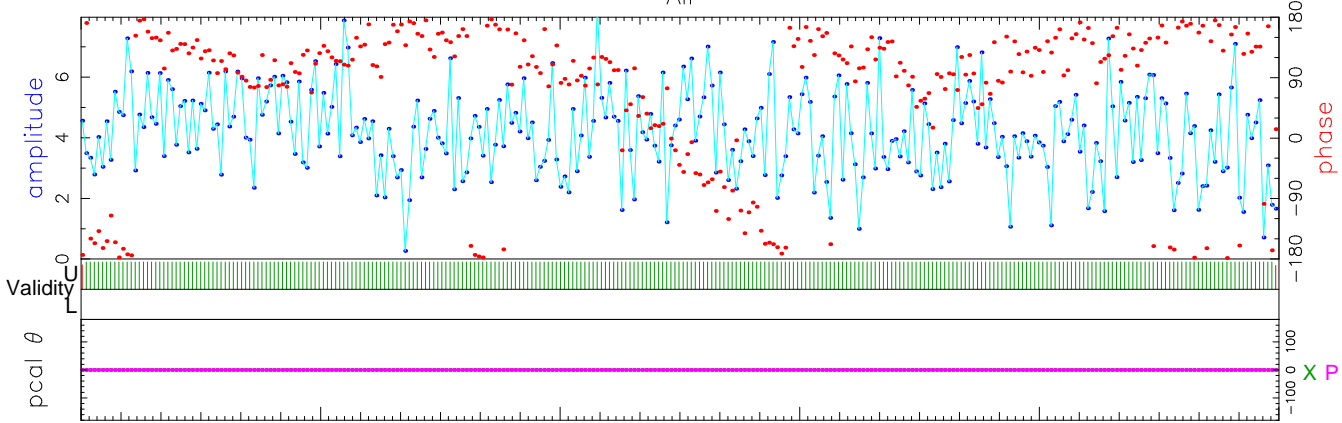


SNR 31.3
 Int time 296.612
 Amp 2.660
 Phase 142.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.016166
 MBD -0.000002
 Fringe rate (Hz)
 0.003097
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174217
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 130.4
 2.7
 510.9
 U/L 586/0
 X 0
 P 0
 X:P 0:0
 X:P 0:0
 X 1000
 P 1000
 X W06UR
 P W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

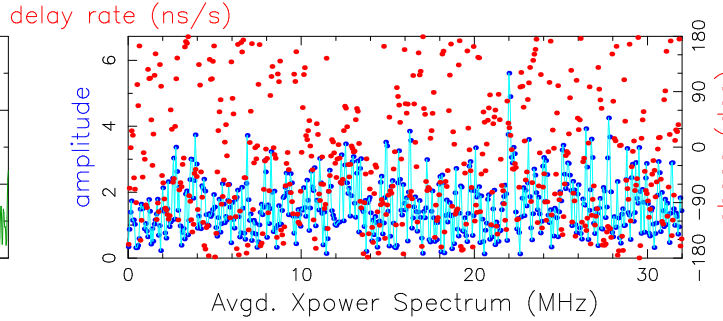
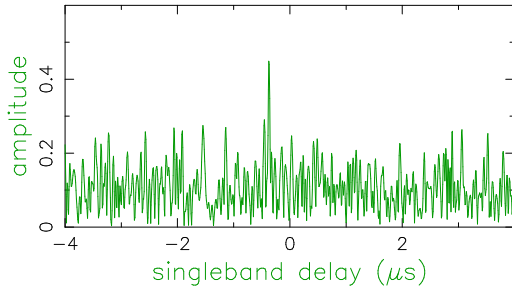
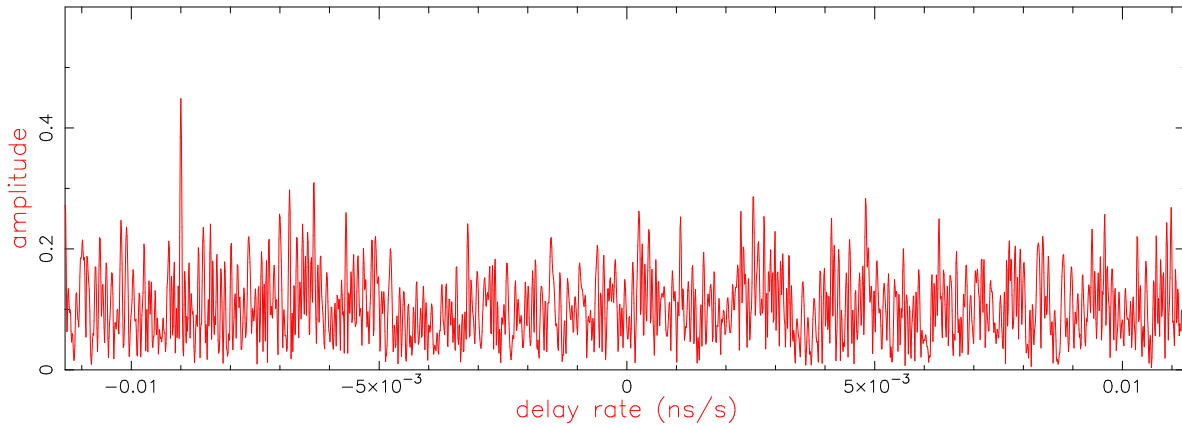
Group delay (usec)(sbd)	-4.78520446932E+03	Apriori delay (usec)	-4.78518830789E+03	Resid mbdelay (usec)	-2.08868E-06	+/-	5.5E-04
Sband delay (usec)	-4.78520447339E+03	Apriori clock (usec)	2.5145716E+01	Resid sbdelay (usec)	-1.61655E-02	+/-	5.5E-04
Phase delay (usec)	-4.78518830368E+03	Apriori clockrate (us/s)	1.0770000E-06	Resid phdelay (usec)	4.20456E-06	+/-	1.2E-07
Delay rate (us/s)	1.02212216521E-01	Apriori rate (us/s)	1.02212180568E-01	Resid rate (us/s)	3.59536E-08	+/-	6.8E-10
Total phase (deg)	199.8	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	142.7	+/-	3.7

ph/seg (deg)	58.8	Theor.	31.3	Amplitude	2.660 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	78.4	Search (2048X8)	2.631	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	3.645	Inc. frq. avg.	2.658	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	2.658	u,v (fr/asec)	-566.705 2800.708	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011

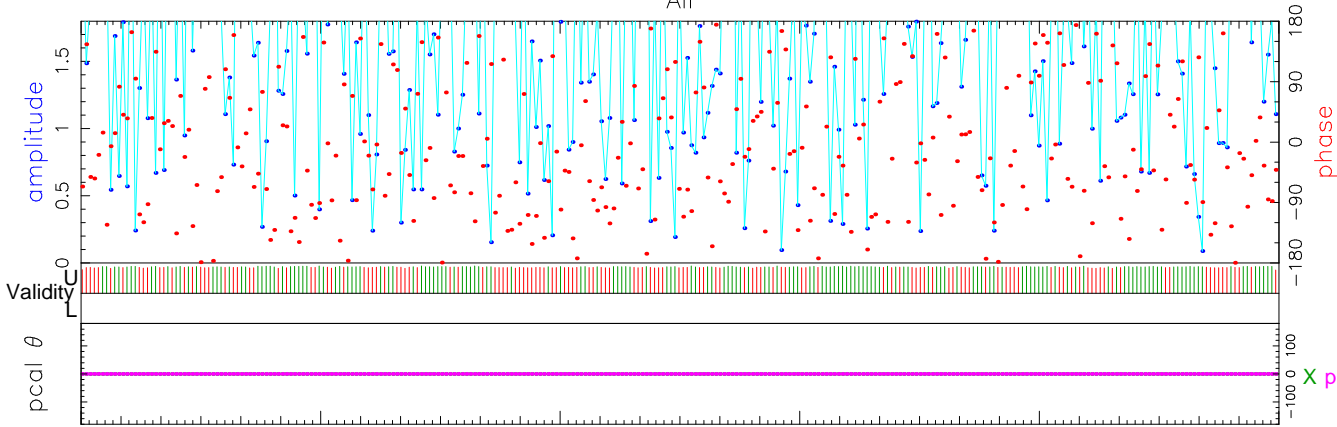
Fringe quality 0

SNR 5.3
Int time 285.678
Amp 0.600
Phase 235.0
PFD 1.0e+00
Delays (us)
SBD -0.371826
MBD -0.000004
Fringe rate (Hz)
-0.775224
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-51.9
0.6
465.4
U/L 586/0
X 0
p 1000
X:p 0:0
X:p 0:0
X 1000
p 1000
X W06UR
p W06UR

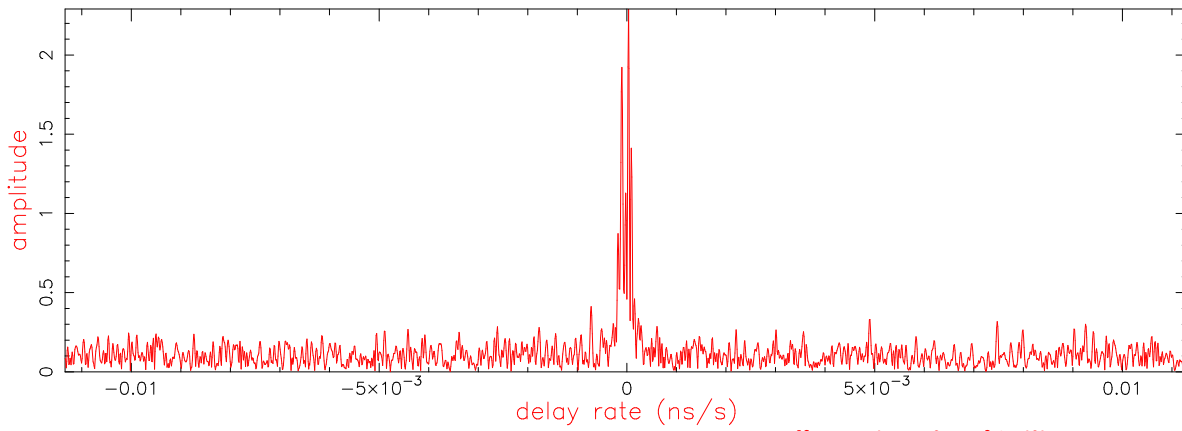
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.90968511083E+02	Apriori delay (usec)	7.91340342731E+02	Resid mbdelay (usec)	-4.35437E-06	+/-	3.3E-03
Sband delay (usec)	7.90968516731E+02	Apriori clock (usec)	-6.2368097E+00	Resid sbdelay (usec)	-3.71826E-01	+/-	3.3E-03
Phase delay (usec)	7.91340341056E+02	Apriori clockrate (us/s)	6.3499997E-07	Resid phdelay (usec)	-1.67422E-06	+/-	7.0E-07
Delay rate (us/s)	-1.77602135409E+00	Apriori rate (us/s)	-1.77601235451E+00	Resid rate (us/s)	-8.99958E-06	+/-	4.0E-09
Total phase (deg)	279.2	Apriori accel (us/s/s)	4.56415516622E-06	Resid phase (deg)	235.0	+/-	21.7

ph/seg (deg)	93.6	Theor.	186.1	Amplitude	0.600 +/- 0.114	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	365.6	Search (2048X8)	0.444	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.378	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.6	Inc. frq. avg.	0.580	Inc. frq. avg.	0.580	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

X: az 247.6 el 32.5 pa 31.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10599.694 2426.227 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xp.W.262.0QR3WR



Fringe quality 9

SNR 27.0

Int time 296.612

Amp 2.290

Phase -113.4

PFD 0.0e+00

Delays (us)

SBD 0.016469

MBD 0.000001

Fringe rate (Hz)

0.003033

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

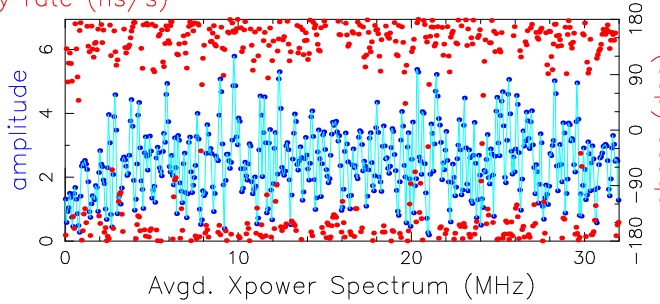
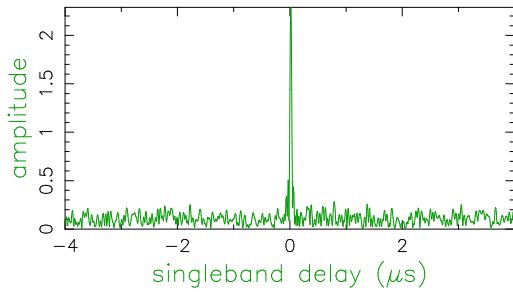
2019:212:174218

2018:249:082454

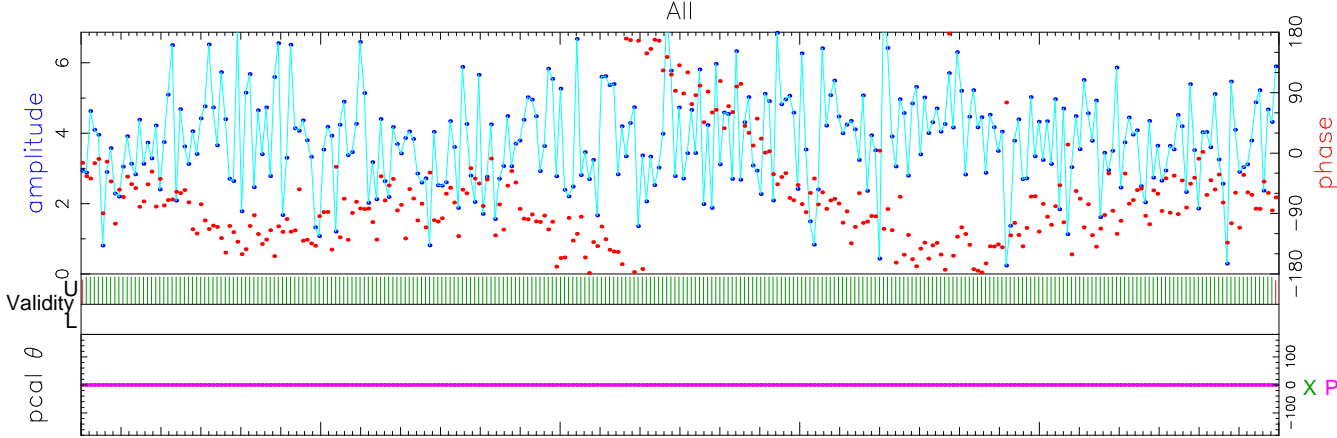
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00

-93.9

2.3

515.1

U/L 586/0

X 0

P 0

X:P 0:0

X:P 0:0

X 1000

P 1000

X W06UL

P W06UR

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC phase

Manl PC

PC amp

Chan ids

Chan ids

Group delay (usec)(sbd)	-4.78517183474E+03	Apriori delay (usec)	-4.78518830789E+03	Resid mbdelay (usec)	5.91473E-07	+/- 6.4E-04
Sband delay (usec)	-4.78517183939E+03	Apriori clock (usec)	2.5145716E+01	Resid sbdelay (usec)	1.64685E-02	+/- 6.4E-04
Phase delay (usec)	-4.78518831091E+03	Apriori clockrate (us/s)	1.0770000E-06	Resid phdelay (usec)	-3.02657E-06	+/- 1.4E-07
Delay rate (us/s)	1.02212215780E-01	Apriori rate (us/s)	1.02212180568E-01	Resid rate (us/s)	3.52118E-08	+/- 7.9E-10
Total phase (deg)	-56.3	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	-113.4	+/- 4.2

ph/seg (deg)	62.5	Theor.	36.4	Amplitude	2.290 +/- 0.085	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	88.0		63.5	Search (2048X8)	2.275	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		2.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1		3.7	Inc. seg. avg.	3.156	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	2.286	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

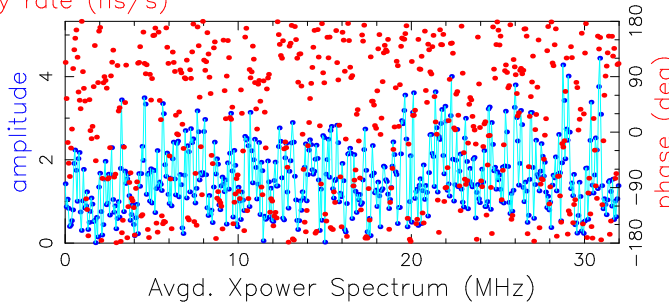
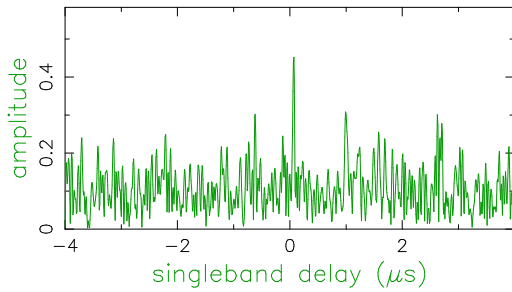
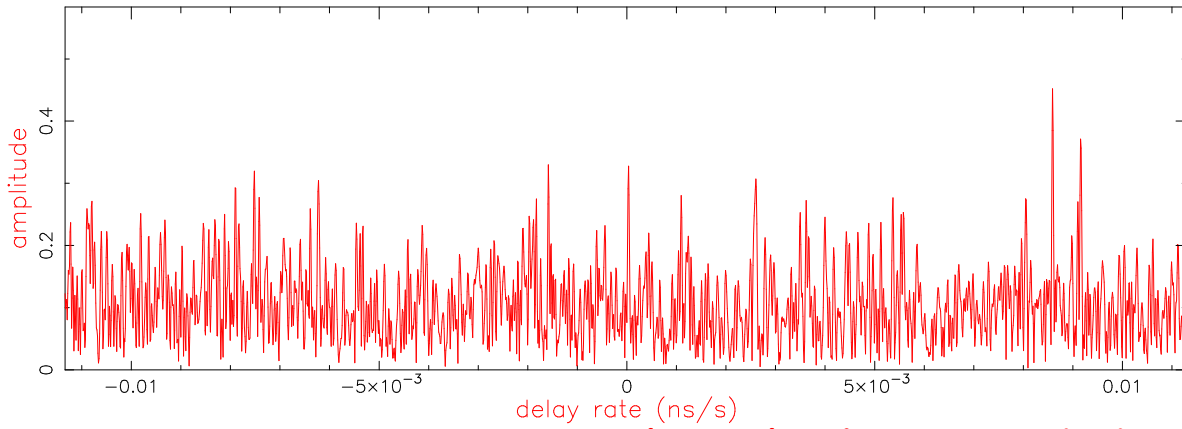
X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XP.W.271.0QR3WR

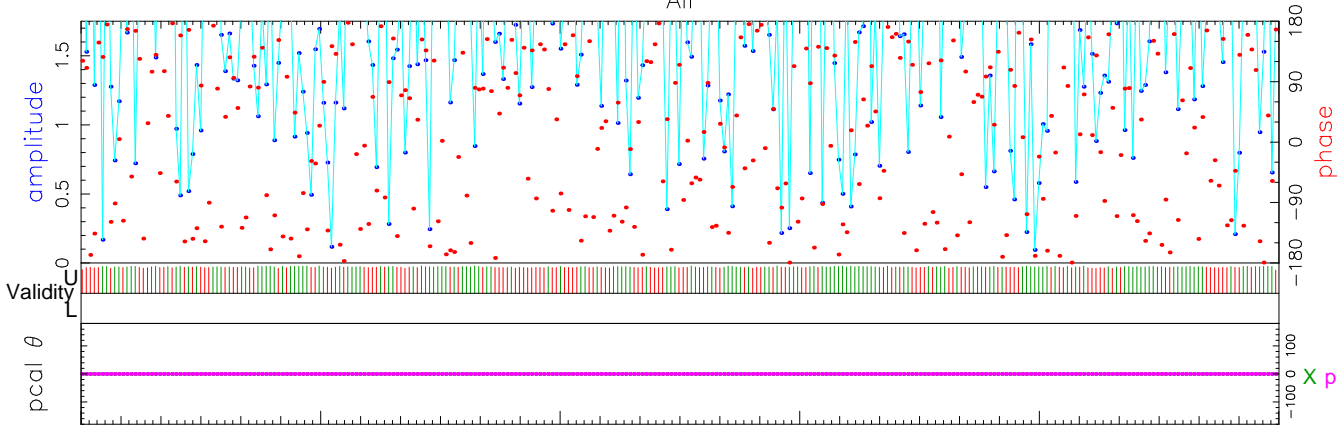
Fringe quality 0

SNR 5.3
Int time 285.678
Amp 0.584
Phase -314.2
PFD 1.0e+00
Delays (us)
SBD 0.067992
MBD 0.000006
Fringe rate (Hz)
0.739457
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174218
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
172.3
0.6
521.7
U/L 586/0
X 0
p 1000
X:p 0:0
X:p 0:0
X 1000
p 1000
X W06UL
p W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

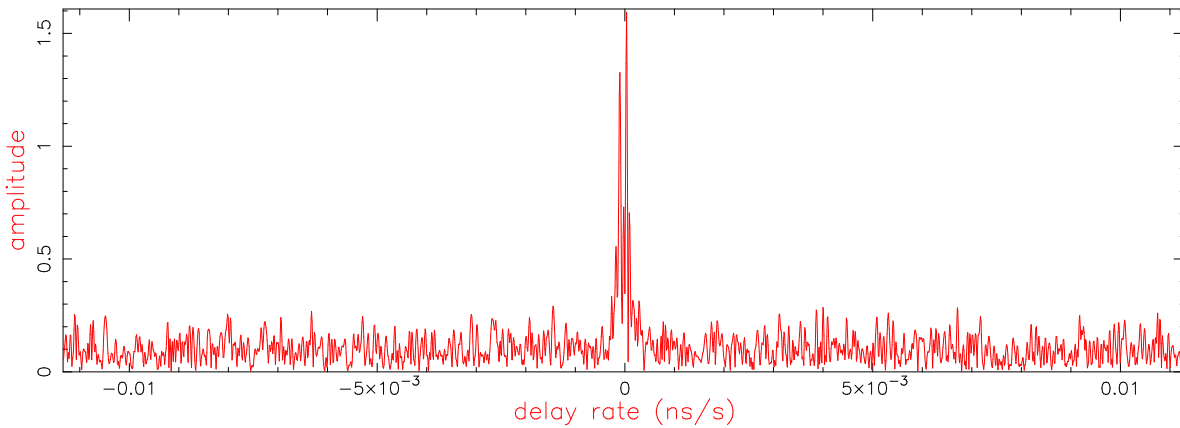
Group delay (usec)(sbd)	7.91408338466E+02	Apriori delay (usec)	7.91340342731E+02	Resid mbdelay (usec)	5.85124E-06	+/-	3.3E-03
Sband delay (usec)	7.91408334231E+02	Apriori clock (usec)	-6.2368097E+00	Resid sbdelay (usec)	6.79915E-02	+/-	3.3E-03
Phase delay (usec)	7.91340348285E+02	Apriori clockrate (us/s)	6.3499997E-07	Resid phdelay (usec)	5.55476E-06	+/-	7.0E-07
Delay rate (us/s)	-1.77600377015E+00	Apriori rate (us/s)	-1.77601235451E+00	Resid rate (us/s)	8.58436E-06	+/-	4.1E-09
Total phase (deg)	-270.0	Apriori accel (us/s/s)	4.56415516622E-06	Resid phase (deg)	-314.2	+/-	21.8

ph/seg (deg)	90.8	Theor.	186.4	Amplitude	0.584 +/- 0.111	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	374.5	Search (2048X8)	0.439	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.384	Inc. seg. avg.	0.384	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.8	Inc. frq. avg.	0.569	Inc. frq. avg.	0.569	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

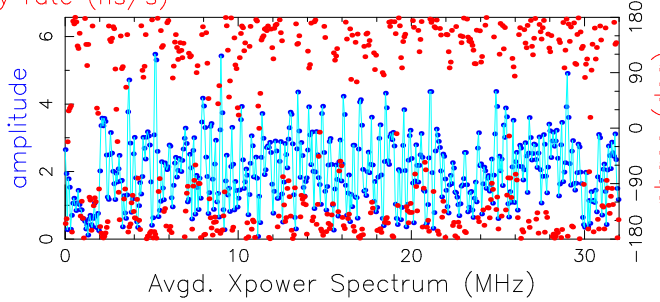
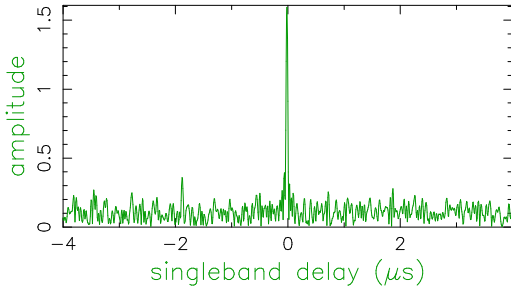
X: az 247.6 el 32.5 pa 31.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10599.694 2426.227 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xp.W.272.0QR3WR

Fringe quality 9

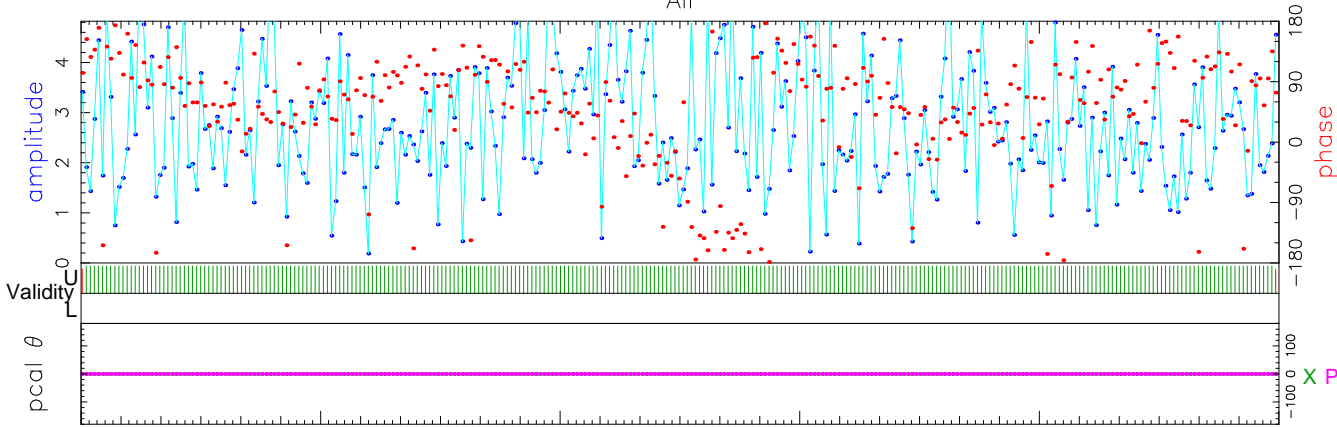


SNR 18.9
 Int time 296.612
 Amp 1.608
 Phase 131.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.018028
 MBD -0.000002
 Fringe rate (Hz)
 0.002938
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174219
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 76.4
 1.6
 510.7
 U/L 586/0
 X 0
 P 0
 X:P 0:0
 X:P 0:0
 X 1000
 P 1000
 X W06UR
 P W06UL

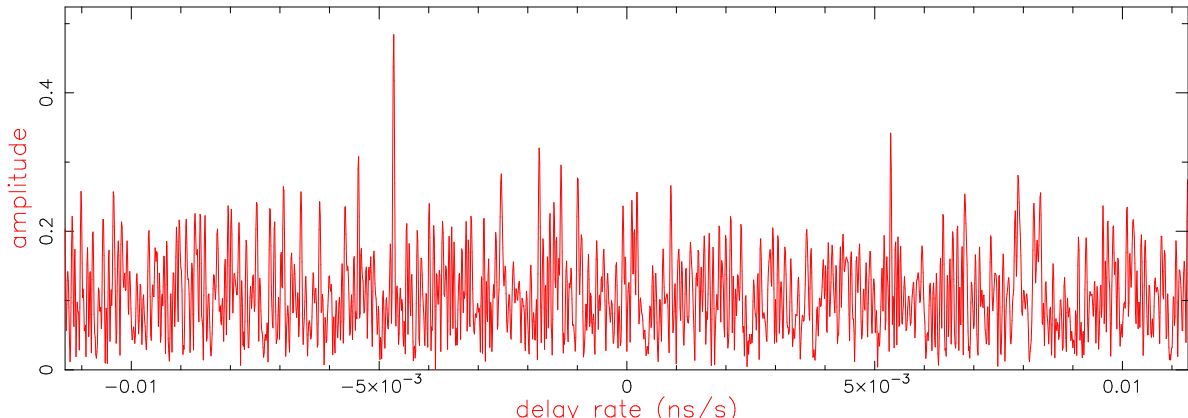
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-4.78520633717E+03	Apriori delay (usec)	-4.78518830789E+03	Resid mbdelay (usec)	-2.27422E-06	+/-	9.1E-04
Sband delay (usec)	-4.78520633589E+03	Apriori clock (usec)	2.5145716E+01	Resid sbdelay (usec)	-1.80280E-02	+/-	9.1E-04
Phase delay (usec)	-4.78518830542E+03	Apriori clockrate (us/s)	1.0770000E-06	Resid phdelay (usec)	2.46366E-06	+/-	2.0E-07
Delay rate (us/s)	1.02212214679E-01	Apriori rate (us/s)	1.02212180568E-01	Resid rate (us/s)	3.41107E-08	+/-	1.1E-09
Total phase (deg)	188.8	Apriori accel (us/s/s)	3.31456296864E-05	Resid phase (deg)	131.7	+/-	6.1

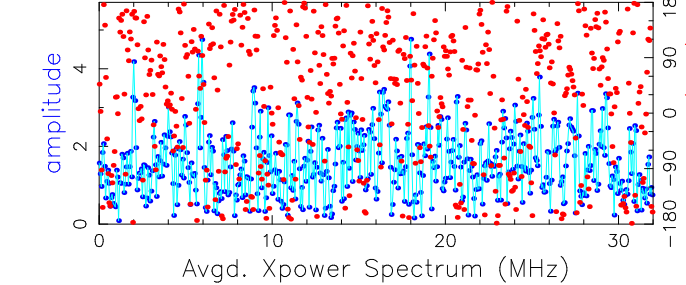
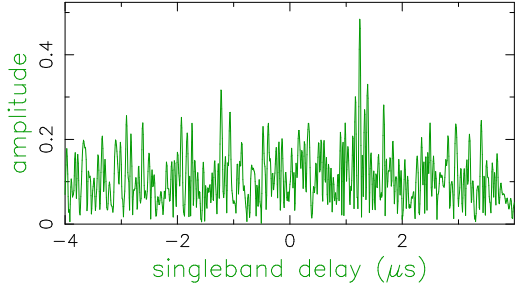
ph/seg (deg)	65.6	Theor.	51.8	Amplitude	1.608 +/- 0.085	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	109.0	Search (2048X8)	1.592	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	1.994	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.9	Inc. frq. avg.	1.592	Inc. frq. avg.	1.592	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XP.W.281.0QR3WR



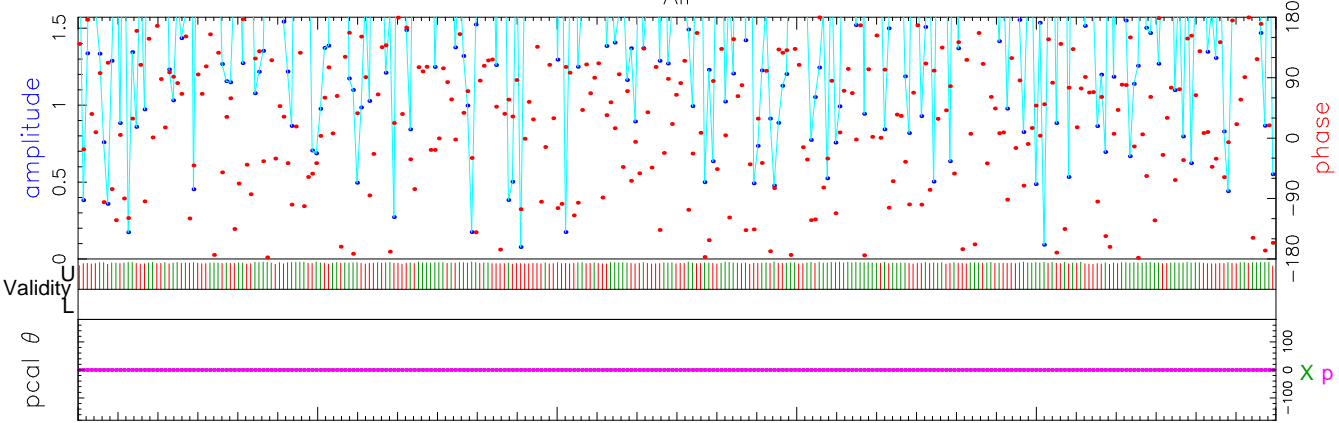
Fringe quality 0
SNR 5.6
Int time 285.684
Amp 0.524
Phase -156.7
PFD 8.8e-01
Delays (us)
SBD 1.244334
MBD -0.000005
Fringe rate (Hz)
-0.405257
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



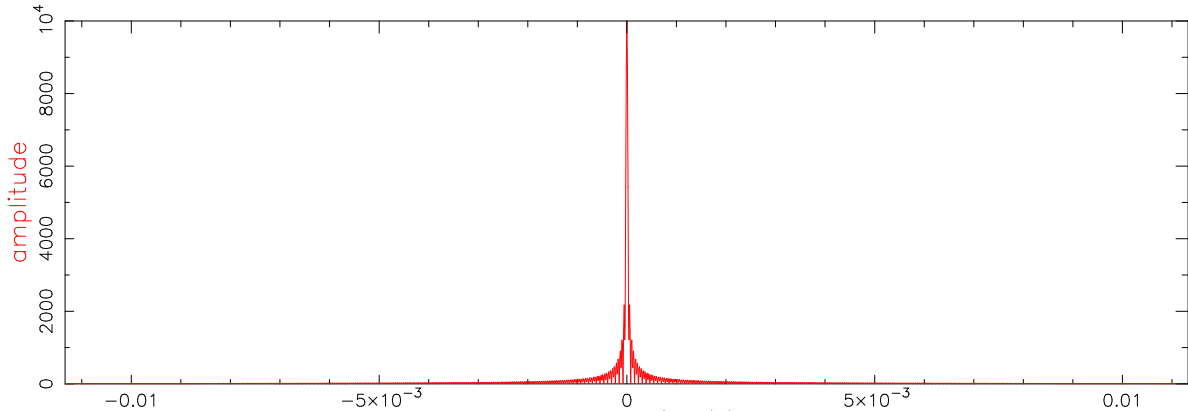
86204.00
72.9
0.5
672.3
U/L 586/0
X 0
p 1000
X:p 0:0
X:p 0:0
X 1000
p 1000
X W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

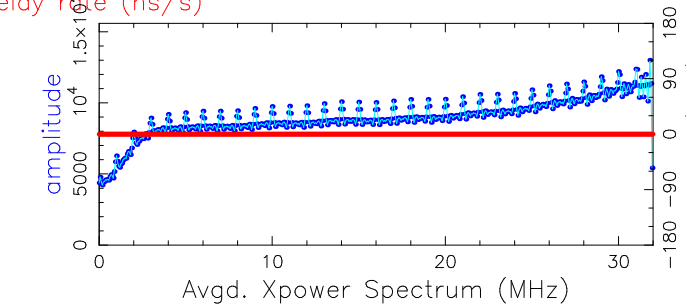
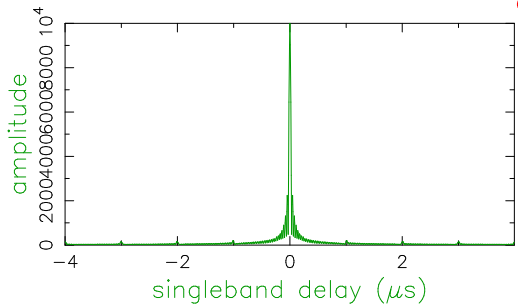
Group delay (usec)(sbd)	7.92584676301E+02	Apriori delay (usec)	7.91340342731E+02	Resid mbdelay (usec)	-5.43928E-06	+/-	3.1E-03
Sband delay (usec)	7.92584676231E+02	Apriori clock (usec)	-6.2368097E+00	Resid sbdelay (usec)	1.24433E+00	+/-	3.1E-03
Phase delay (usec)	7.91340345081E+02	Apriori clockrate (us/s)	6.3499997E-07	Resid phdelay (usec)	2.35087E-06	+/-	6.6E-07
Delay rate (us/s)	-1.77601705914E+00	Apriori rate (us/s)	-1.77601235451E+00	Resid rate (us/s)	-4.70463E-06	+/-	3.8E-09
Total phase (deg)	-112.5	Apriori accel (us/s/s)	4.56415516622E-06	Resid phase (deg)	-156.7	+/-	20.3

ph/seg (deg)	90.7	Theor.	174.0	Amplitude	0.524 +/- 0.093	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	351.5	Search (2048X8)	0.481	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.365	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.7	Inc. frq. avg.	0.512	Inc. frq. avg.	0.512	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

X: az 247.6 el 32.5 pa 31.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10599.694 2426.227 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Xp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Xp.W.282.0QR3WR

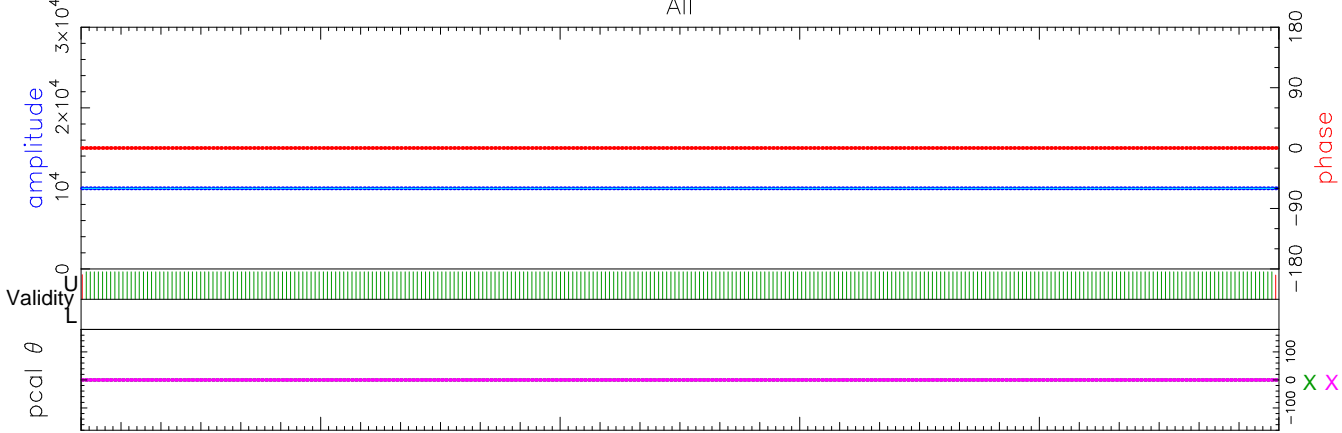


Fringe quality 9
 SNR 118372.4
 Int time 299.796
 Amp 10000.000
 Phase -0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000007
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174215
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All

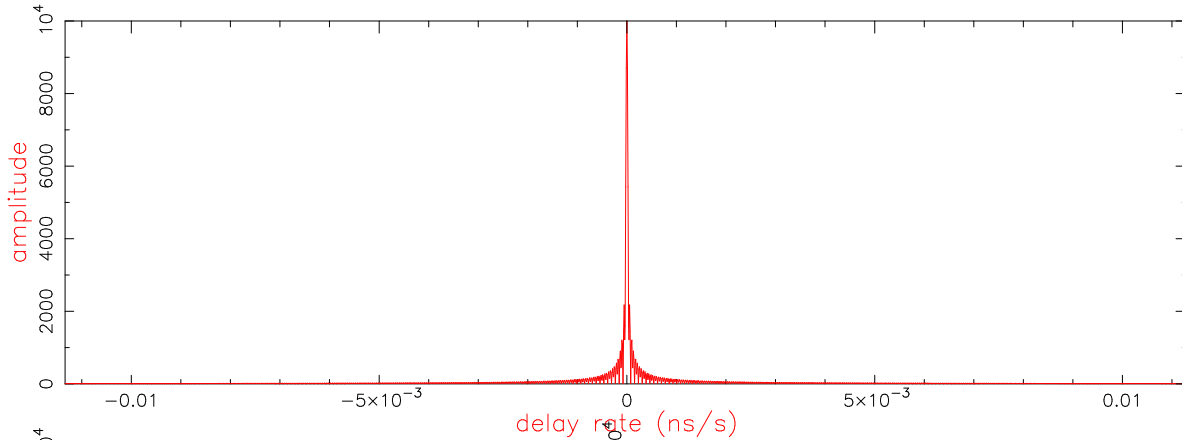


86204.00		Freq (MHz)
0.2		Phase
10000.0		Ampl.
513.0		Sbd box
U/L 586/0		APs used
X 0		PC freqs
X 0		PC freqs
X:X 0:0		PC phase
X:X 0:0		Mani PC
X 1000		PC amp
X 1000		
X W06UL		Chan ids
X W06UL		Chan ids

Group delay (usec)(sbd)	4.66799684469E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.93239E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.43825672478E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.43826E-09	+/-	3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

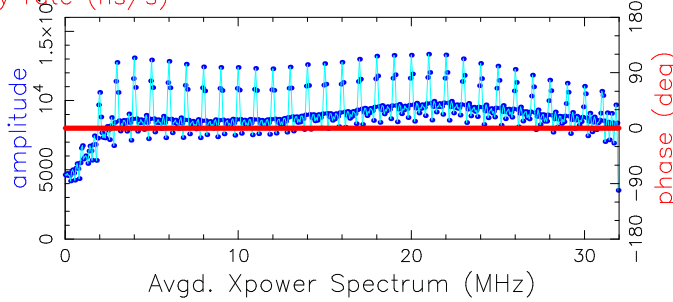
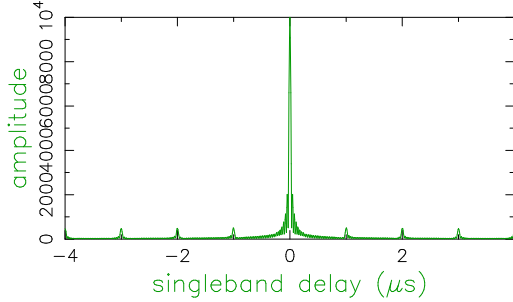
ph/seg (deg)	0.0	0.0	Amplitude	10000.000 +/- 0.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	0.0	0.0	Search (2048X8)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000	
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011	0.011
			Inc. frq. avg.	10000.000	Data rate(Mb/s): 128	nlags: 512	ion window (TEC)	0.00	0.00

X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XX.W.248.0QR3WR



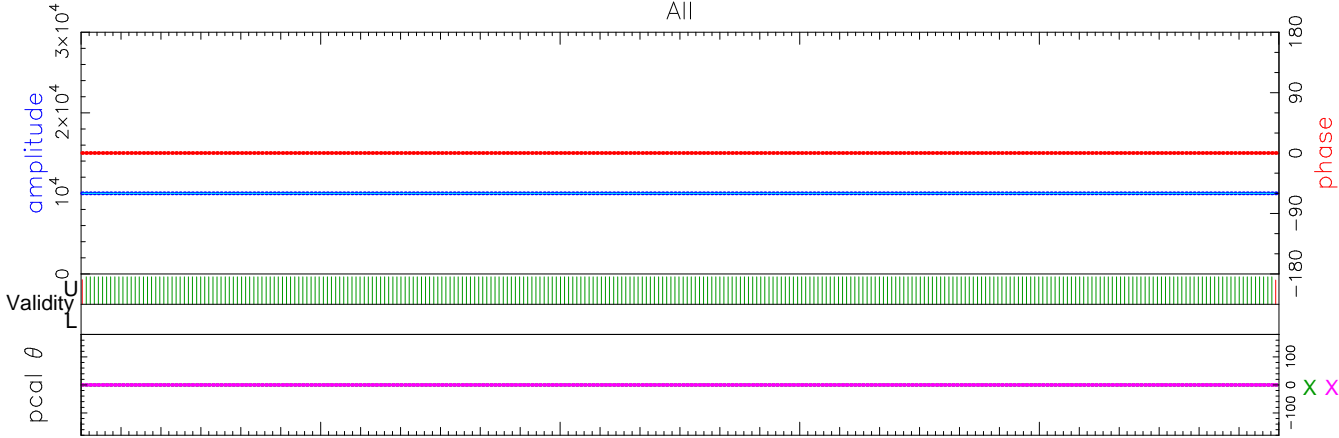
Fringe quality 9

SNR 118372.4
 Int time 299.796
 Amp 10000.000
 Phase -0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000007
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174216
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
 0.2
 10000.0
 513.0
 U/L 586/0
 X 0
 X 0
 X:X 0:0
 X:X 0:0
 X 1000
 X 1000
 X W06UR
 X W06UR

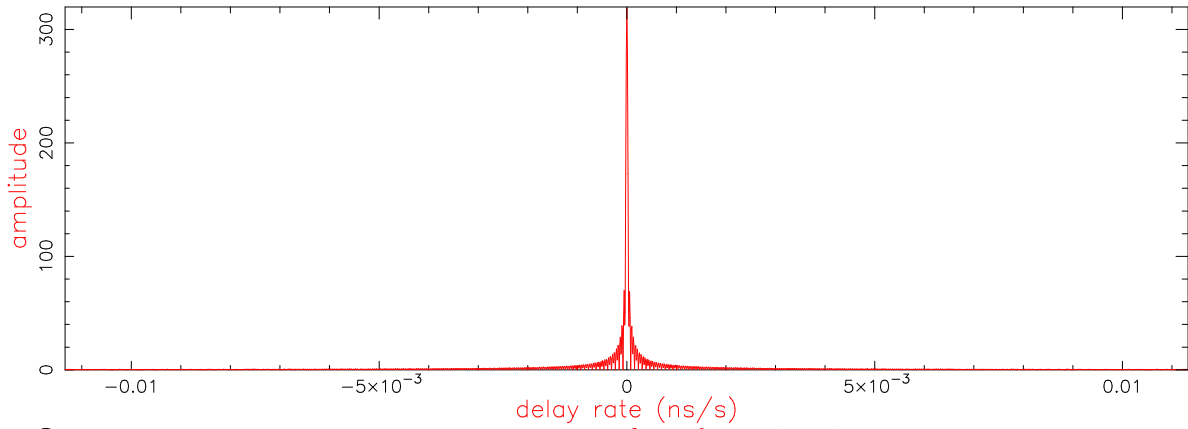
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	4.70790218551E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.89249E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.40119580922E-09	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	6.40120E-09	+/-	3.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0		0.0	Search (2048X8)	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.0	Inc. seg. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0		0.0	Inc. frq. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00
						nlags:	512	t_cohere	infinite

X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

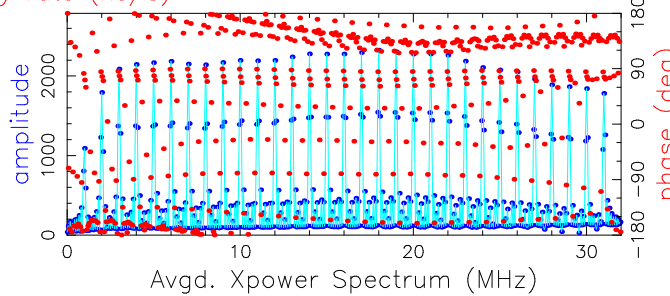
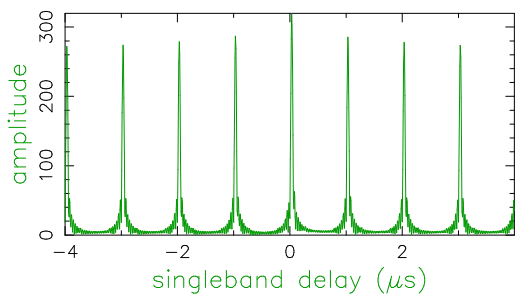
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XX.W.258.0QR3WR



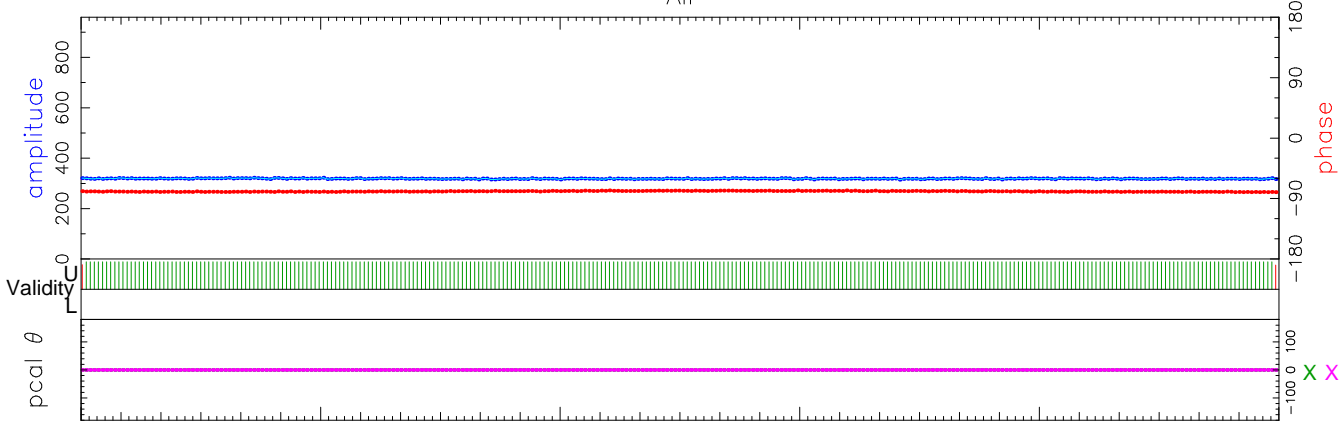
Fringe quality 9

SNR 3785.8
 Int time 299.796
 Amp 319.824
 Phase -113.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.032731
 MBD -0.000006
 Fringe rate (Hz)
 0.000056
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174218
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 -79.3
 318.8
 517.2
 U/L 586/0
 X 0
 X 0
 X:X 0:0
 X:X 0:0
 X 1000
 X 1000
 X W06UL
 X W06UR

Group delay (usec)(sbd)	3.27305101387E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.78980E-06	+/-	4.6E-06
Sband delay (usec)	3.27310000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.27310E-02	+/-	4.6E-06
Phase delay (usec)	-2.55584575694E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.55585E-06	+/-	9.8E-10
Delay rate (us/s)	6.45495991441E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	6.45496E-10	+/-	5.6E-12
Total phase (deg)	-113.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-113.5	+/-	0.0

U/L 586/0
 X 0
 X 0
 X:X 0:0
 X:X 0:0
 X 1000
 X 1000
 X W06UL
 X W06UR

ph/seg (deg)	0.6	Theor.	0.3	Amplitude	319.824 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.5	Interp.	0.000	Search (2048X8)	318.685	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	318.850	Inc. frq. avg.	318.834	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.3	Inc. frq. avg.	318.834	Data rate (Mb/s):	128	nlags:	512	t_cohere	infinite

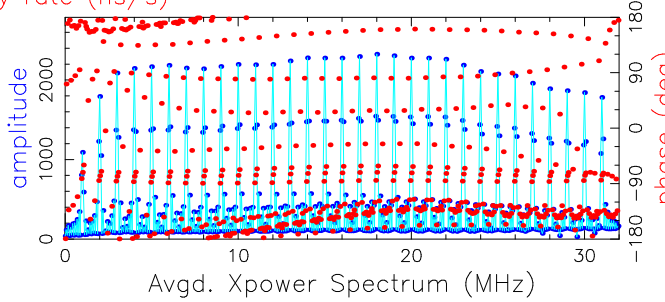
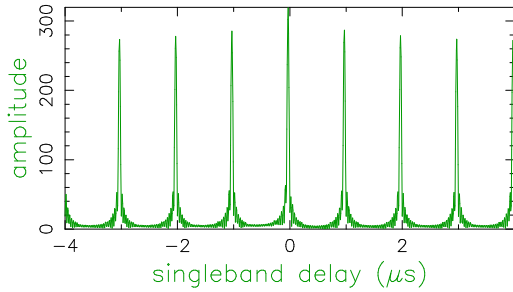
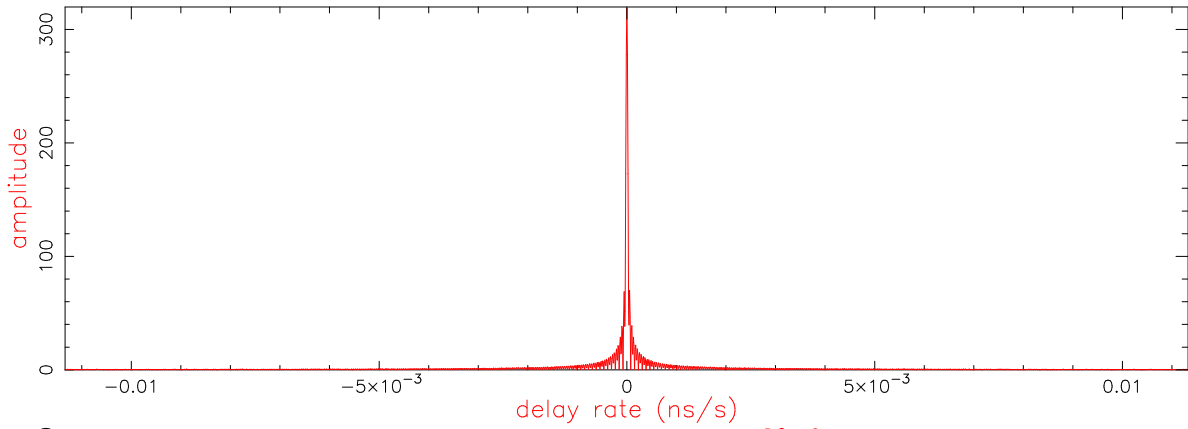
X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/XX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/XX.W.270.0QR3WR

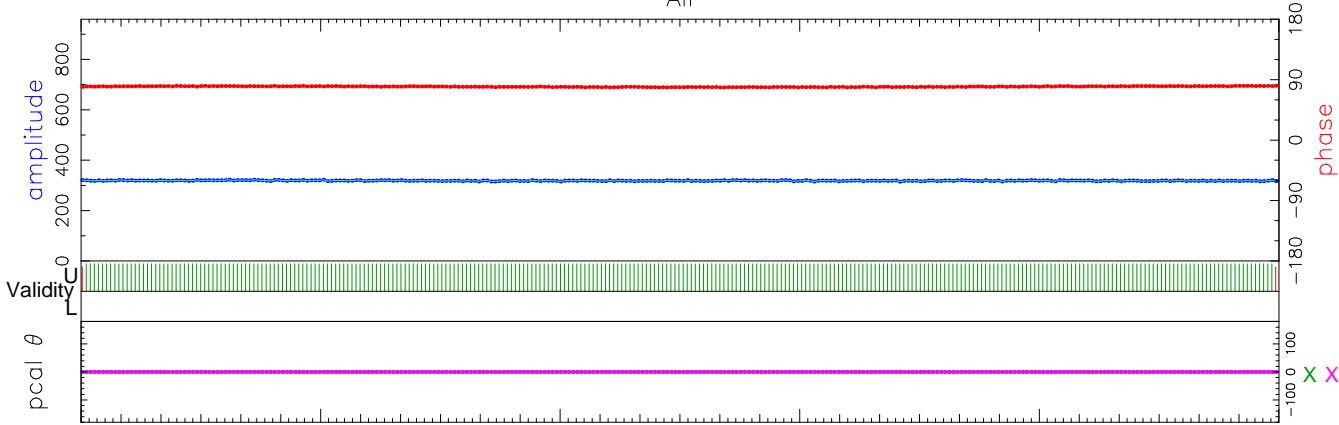
Fringe quality 9

SNR 3785.8
 Int time 299.796
 Amp 319.824
 Phase 113.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.032731
 MBD -0.000007
 Fringe rate (Hz)
 -0.000056
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174219
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



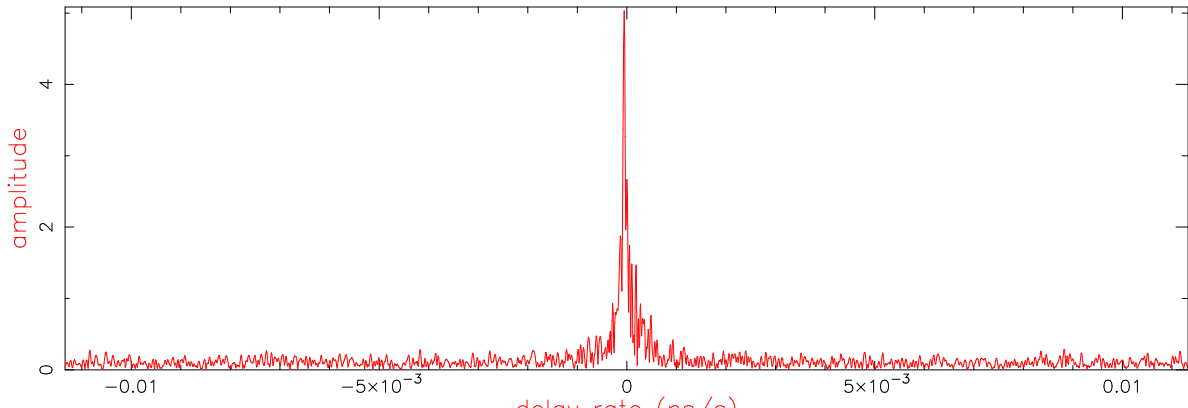
86204.00	Freq (MHz)
79.6	Phase
318.8	Ampl.
508.8	Sbd box
U/L 586/0	APs used
X 0	PC freqs
X 0	PC freqs
X:X 0:0	PC phase
X:X 0:0	Mani PC
X 1000	PC amp
X 1000	
X W06UR	Chan ids
X W06UL	Chan ids

Group delay (usec)(sbd)	-3.27315190942E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.81954E-06	+/-	4.6E-06
Sband delay (usec)	-3.27310000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.27310E-02	+/-	4.6E-06
Phase delay (usec)	2.56755631639E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.56756E-06	+/-	9.8E-10
Delay rate (us/s)	-6.45495991441E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-6.45496E-10	+/-	5.6E-12
Total phase (deg)	113.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	113.6	+/-	0.0

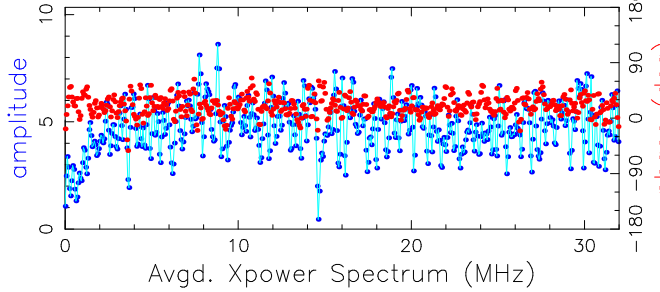
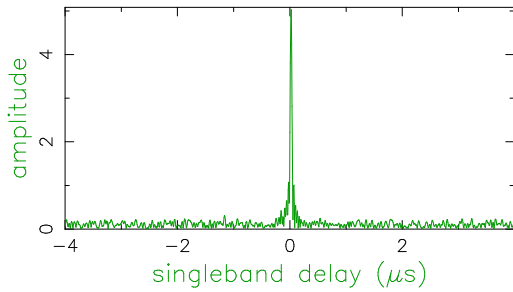
ph/seg (deg)	0.6	Theor.	0.3	Amplitude	319.824 +/- 0.084	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.5		0.5	Search (2048X8)	318.685	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.3		0.0	Inc. seg. avg.	318.850	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	318.834	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XX.W.280.0QR3WR

Fringe quality 9



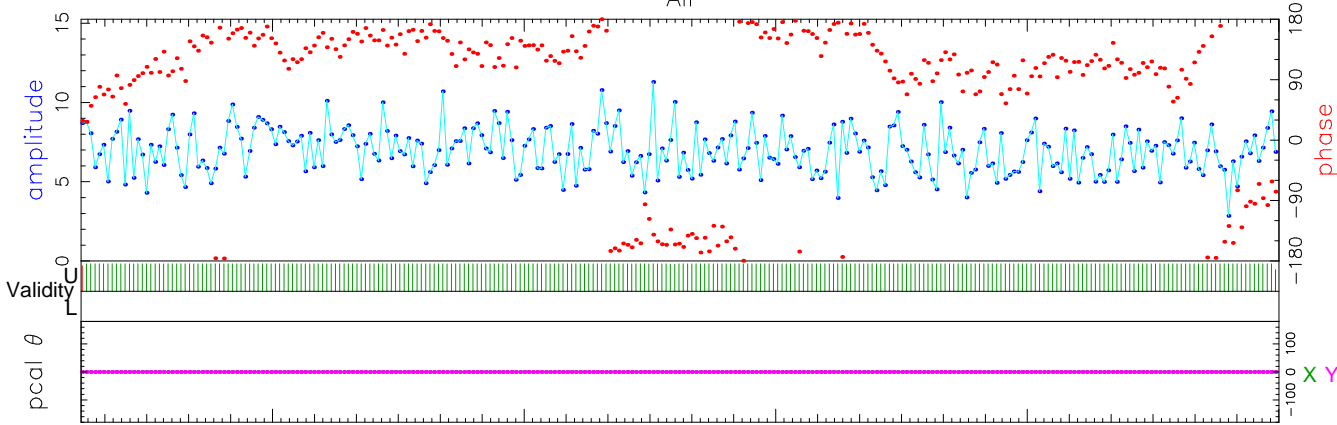
SNR 58.7
 Int time 285.318
 Amp 5.085
 Phase -341.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.020875
 MBD -0.000007
 Fringe rate (Hz)
 -0.004697
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174215
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 139.6
 5.0
 515.7
 U/L 558/0
 X 0
 Y 0
 X:Y 0:0
 X:Y 0:0
 X 1000
 Y 1000
 X W06UL
 Y W06UL

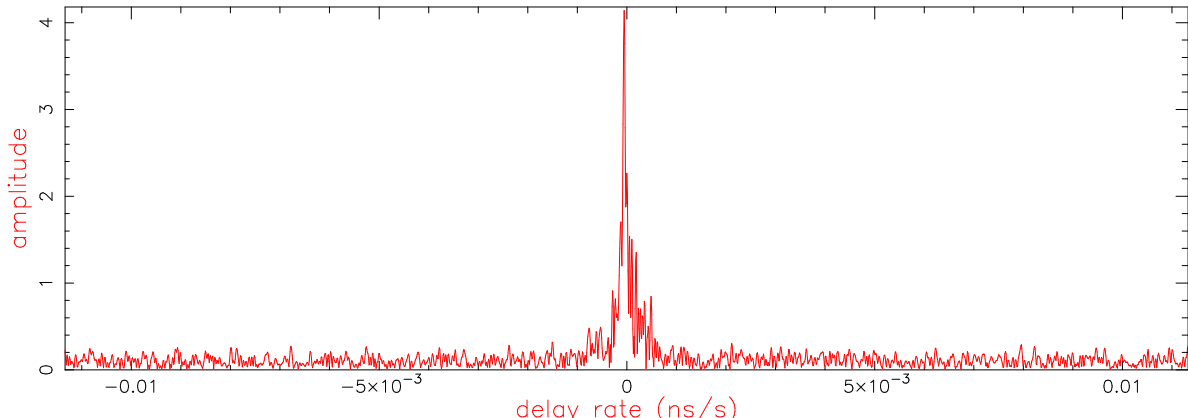
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-4.42161993394E+03	Apriori delay (usec)	-4.42164080740E+03	Resid mbdelay (usec)	-7.23860E-06	+/-	2.9E-04
Sband delay (usec)	-4.42161993240E+03	Apriori clock (usec)	1.8047026E+01	Resid sbdelay (usec)	2.08750E-02	+/-	2.9E-04
Phase delay (usec)	-4.42164080290E+03	Apriori clockrate (us/s)	5.8699996E-07	Resid phdelay (usec)	4.50331E-06	+/-	6.3E-08
Delay rate (us/s)	7.06486385135E-02	Apriori rate (us/s)	7.06486930427E-02	Resid rate (us/s)	-5.45292E-08	+/-	3.8E-10
Total phase (deg)	-35.3	Apriori accel (us/s/s)	2.96955604669E-05	Resid phase (deg)	-341.4	+/-	2.0

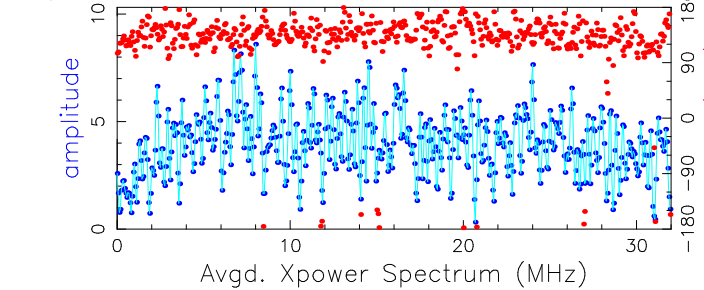
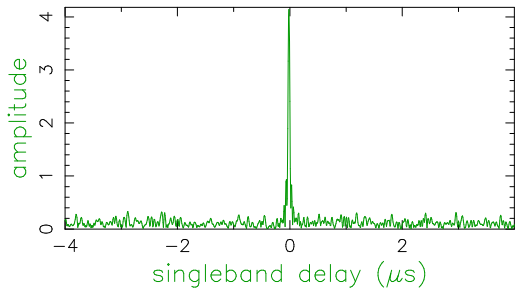
ph/seg (deg)	48.0	RMS	16.3	Theor.	48.0	Amplitude	5.085 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	46.9	Search (2048X8)	5.027	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	6.729	Inc. frq. avg.	5.031	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000
amp/frq (%)	1.0	u,v (fr/asec)	-383.023	2322.219		Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011		
						Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00		

X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XY.W.247.0QR3WR



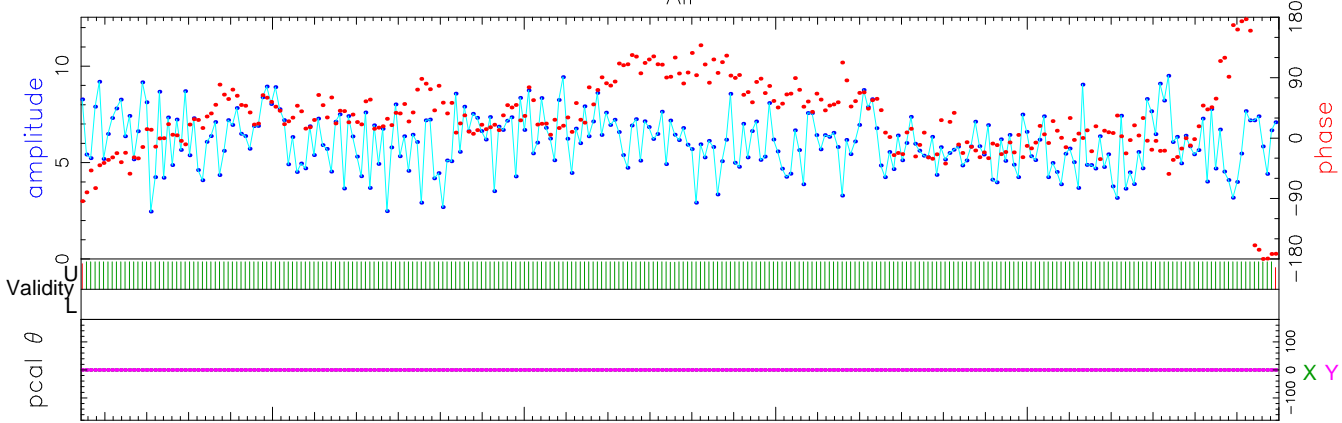
Fringe quality 9
SNR 48.3
Int time 285.318
Amp 4.181
Phase 90.3
PFD 0.0e+00
Delays (us)
SBD -0.018131
MBD -0.000005
Fringe rate (Hz)
-0.004692
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



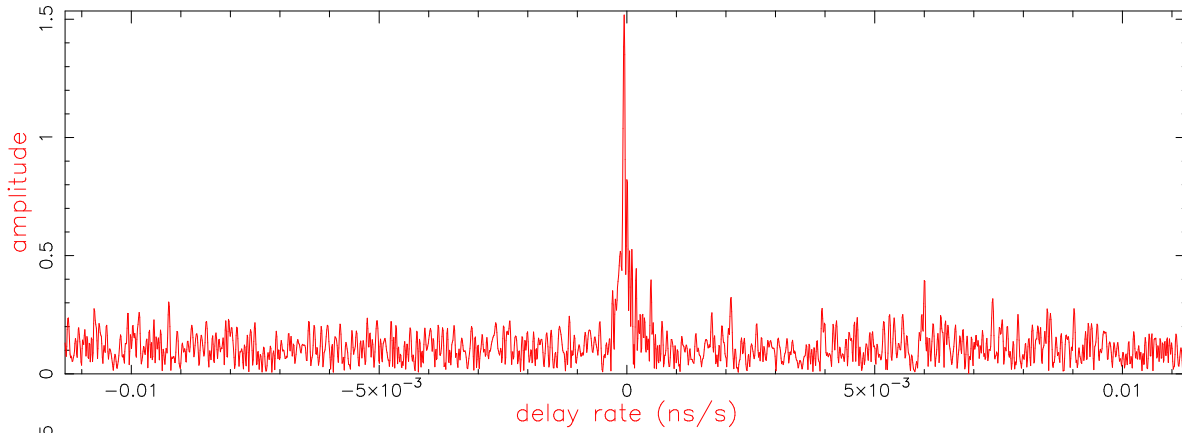
86204.00
32.5
4.1
510.7
U/L 558/0
X 0
Y 0
X:Y 0:0
X:Y 0:0
X 1000
Y 1000
X W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

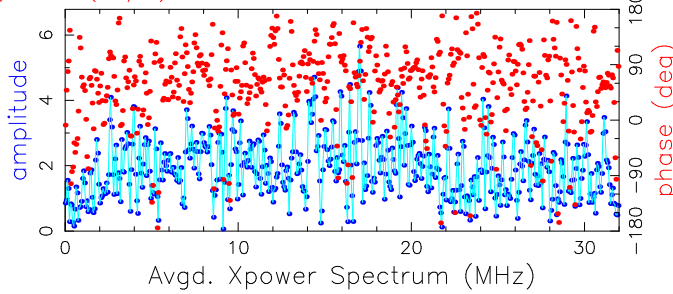
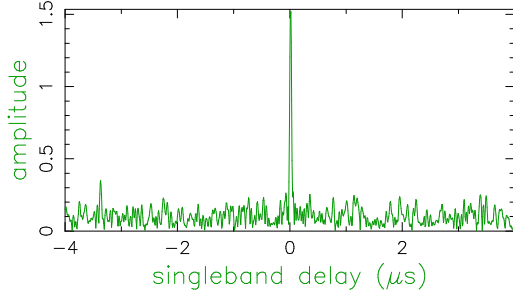
Group delay (usec)(sbd)	-4.42165894335E+03	Apriori delay (usec)	-4.42164080740E+03	Resid mbdelay (usec)	-4.54090E-06	+/-	3.6E-04
Sband delay (usec)	-4.42165893840E+03	Apriori clock (usec)	1.8047026E+01	Resid sbdelay (usec)	-1.81310E-02	+/-	3.6E-04
Phase delay (usec)	-4.42164080635E+03	Apriori clockrate (us/s)	5.8699996E-07	Resid phdelay (usec)	1.04887E-06	+/-	7.7E-08
Delay rate (us/s)	7.06486385787E-02	Apriori rate (us/s)	7.06486930427E-02	Resid rate (us/s)	-5.44640E-08	+/-	4.6E-10
Total phase (deg)	36.4	Apriori accel (us/s/s)	2.96955604669E-05	Resid phase (deg)	90.3	+/-	2.4

ph/seg (deg)	51.7	Theor.	19.8	Amplitude	4.181 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	57.2	Search (2048X8)	4.138	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	5.744	Inc. frq. avg.	4.141	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.9	Inc. frq. avg.	4.141			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

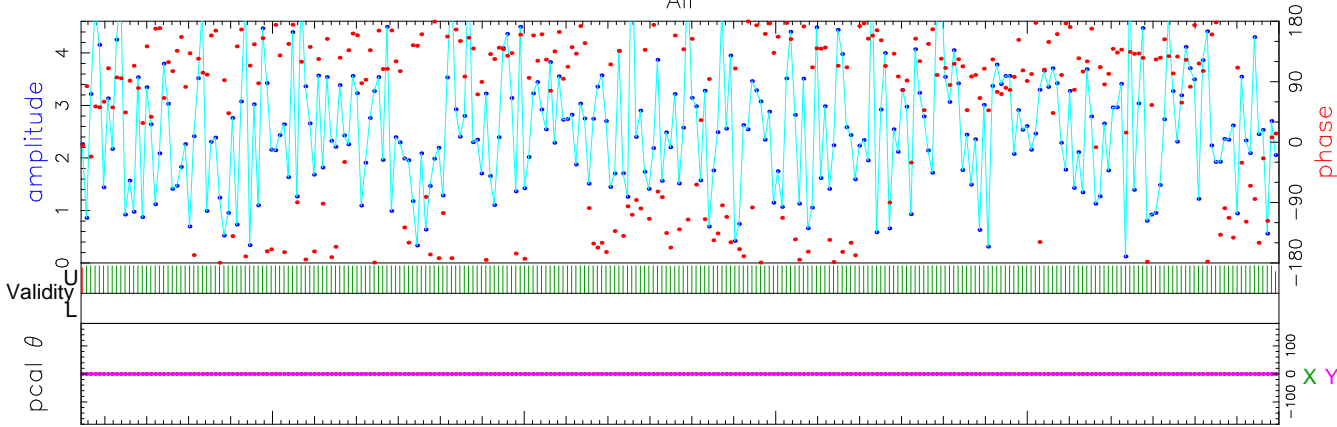
X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XY.W.257.0QR3WR



Fringe quality 9
SNR 17.7
Int time 285.318
Amp 1.535
Phase -150.2
PFD 0.0e+00
Delays (us)
SBD 0.012838
MBD -0.000006
Fringe rate (Hz)
-0.004845
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
145.7
1.5
514.6
U/L 558/0
X 0
Y 0
X:Y 0:0
X:Y 0:0
X 1000
Y 1000
X W06UL
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.42162797186E+03	Apriori delay (usec)	-4.42164080740E+03	Resid mbdelay (usec)	-6.08853E-06	+/-	9.7E-04
Sband delay (usec)	-4.42162796940E+03	Apriori clock (usec)	1.8047026E+01	Resid sbdelay (usec)	1.28380E-02	+/-	9.7E-04
Phase delay (usec)	-4.42164080270E+03	Apriori clockrate (us/s)	5.8699996E-07	Resid phdelay (usec)	4.69896E-06	+/-	2.1E-07
Delay rate (us/s)	7.06486368023E-02	Apriori rate (us/s)	7.06486930427E-02	Resid rate (us/s)	-5.62403E-08	+/-	1.3E-09
Total phase (deg)	-204.0	Apriori accel (us/s/s)	2.96955604669E-05	Resid phase (deg)	-150.2	+/-	6.5

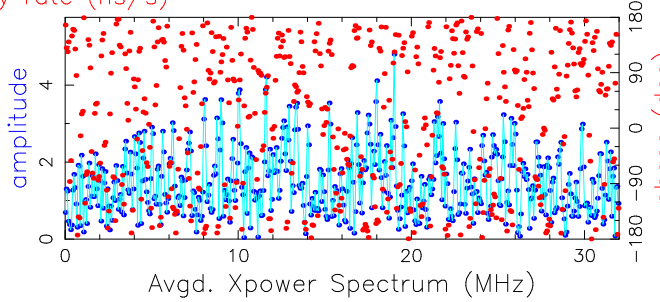
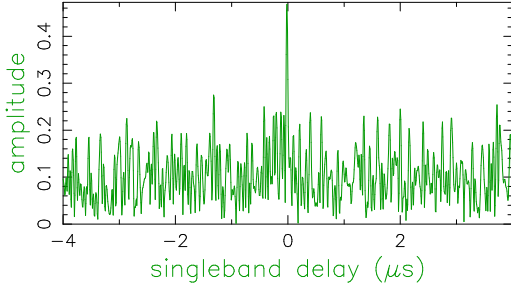
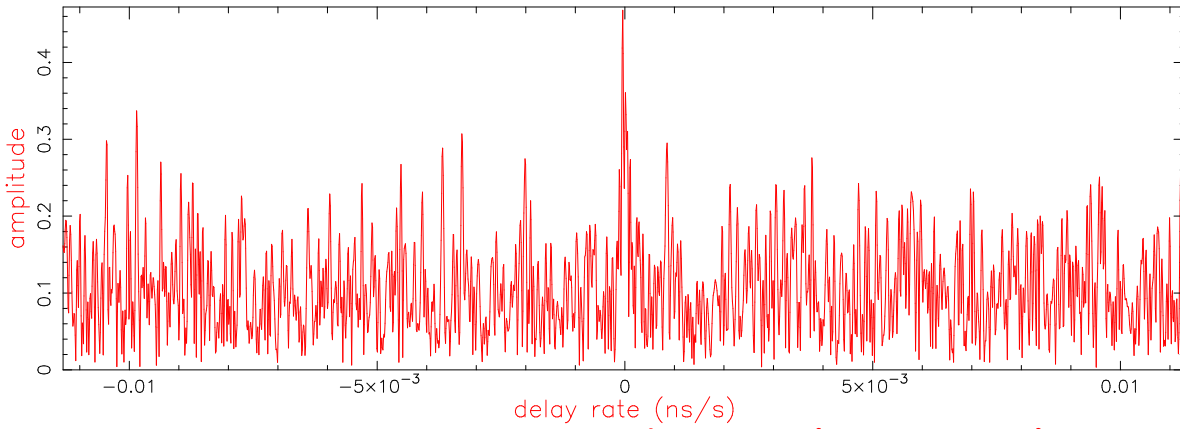
ph/seg (deg)	63.6	Theor.	54.0	Amplitude	1.535 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	103.8	Search (2048X8)	1.516	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	1.793	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.1	Inc. frq. avg.	1.516	Inc. frq. avg.	1.516	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XY.W.284.0QR3WR

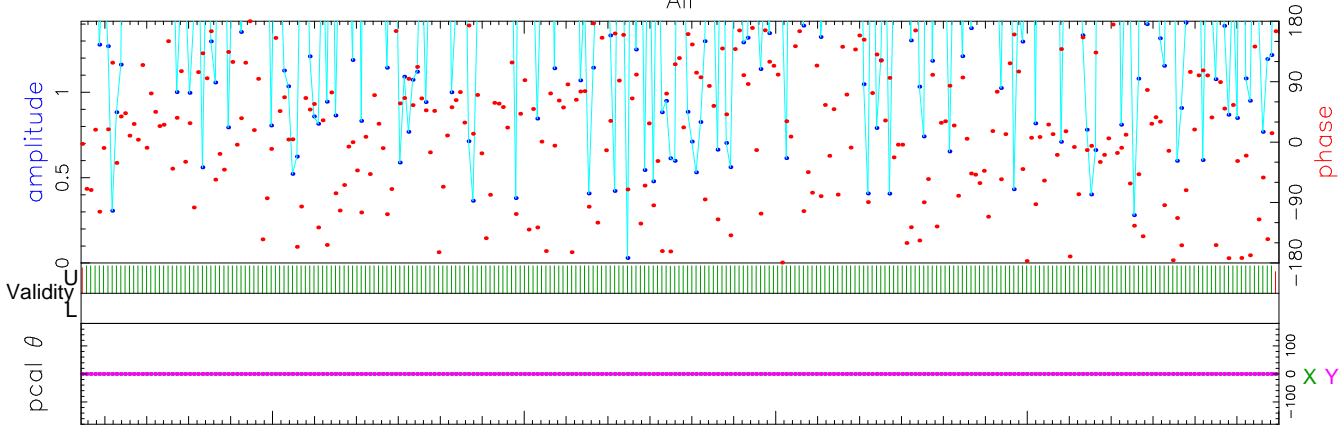
Fringe quality 0

SNR 5.5
Int time 285.318
Amp 0.472
Phase 93.3
PFD 1.0e+00
Delays (us)
SBD -0.018228
MBD -0.000005
Fringe rate (Hz)
-0.004091
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
33.4
0.5
510.7
U/L 558/0
X 0
Y 0
X:Y 0:0
X:Y 0:0
X 1000
Y 1000
X W06UR
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.42165903660E+03	Apriori delay (usec)	-4.42164080740E+03	Resid mbdelay (usec)	-4.98009E-06	+/-	3.2E-03
Sband delay (usec)	-4.42165903540E+03	Apriori clock (usec)	1.8047026E+01	Resid sbdelay (usec)	-1.82280E-02	+/-	3.2E-03
Phase delay (usec)	-4.42164080633E+03	Apriori clockrate (us/s)	5.8699996E-07	Resid phdelay (usec)	1.07733E-06	+/-	6.8E-07
Delay rate (us/s)	7.06486455544E-02	Apriori rate (us/s)	7.06486930427E-02	Resid rate (us/s)	-4.74882E-08	+/-	4.1E-09
Total phase (deg)	39.4	Apriori accel (us/s/s)	2.96955604669E-05	Resid phase (deg)	93.3	+/-	21.0

ph/seg (deg)	91.3	Theor.	175.5	Amplitude	0.472 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	350.6	Search (2048X8)	0.462	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Inc. seg. avg.	0.323	Inc. frq. avg.	0.460	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.9	Inc. frq. avg.	0.460			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

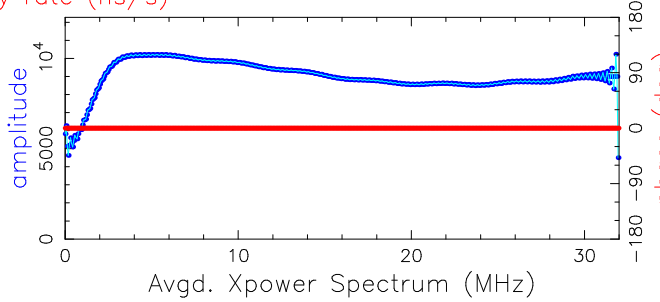
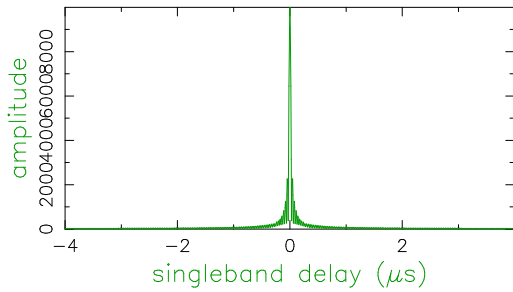
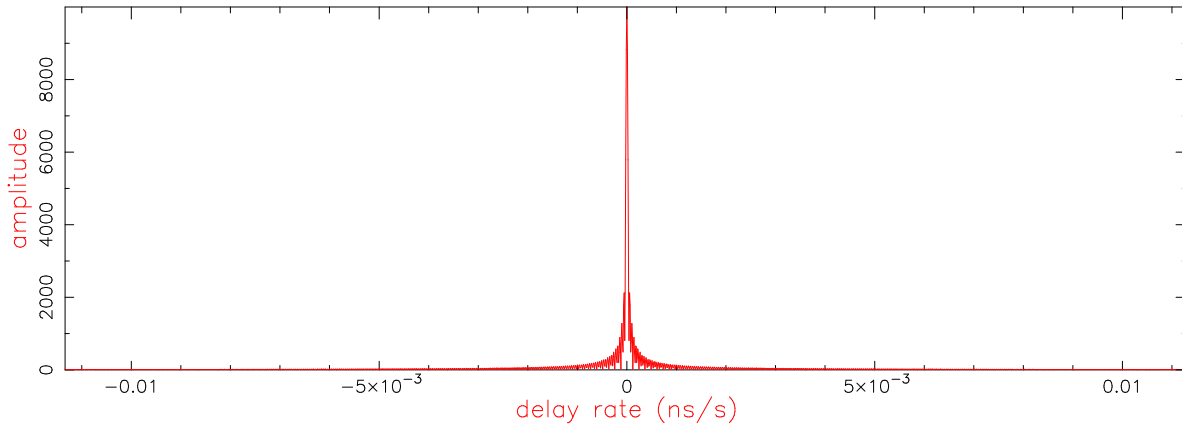
X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//XY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//XY.W.294.0QR3WR

Fringe quality 9

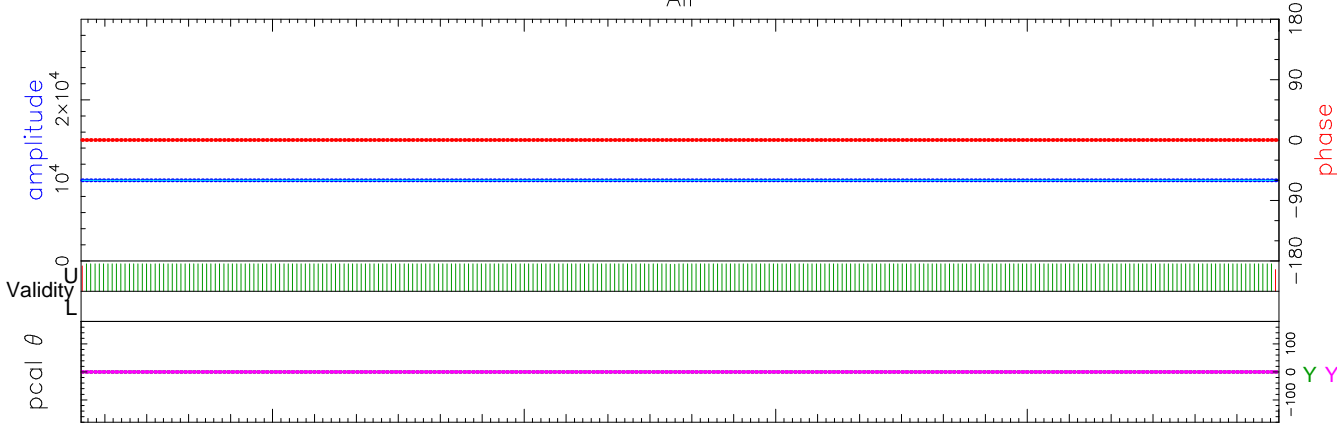
SNR 115479.5
Int time 285.322
Amp 9999.999
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174216
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
0.2
10000.0
513.0
U/L 558/0
Y 0
Y 0
Y:Y 0:0
Y:Y 0:0
Y 1000
Y 1000
Y W06UL
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.61509906733E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.98529E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.48738398492E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.48738E-09	+/- 3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9999.999 +/- 0.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0		0.0	Search (2048X8)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	9999.999	Data rate(Mb/s): 128	nlags: 512	t_cohere	infinite	

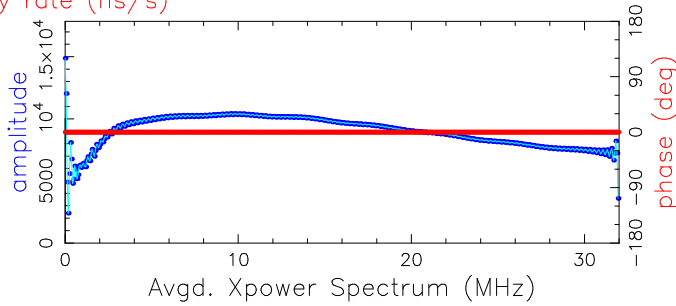
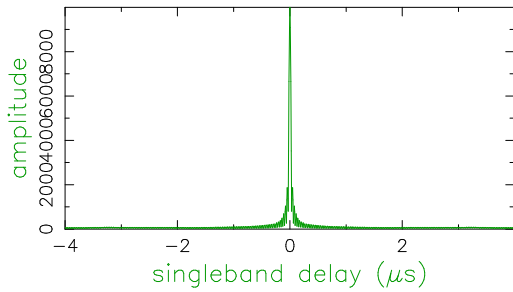
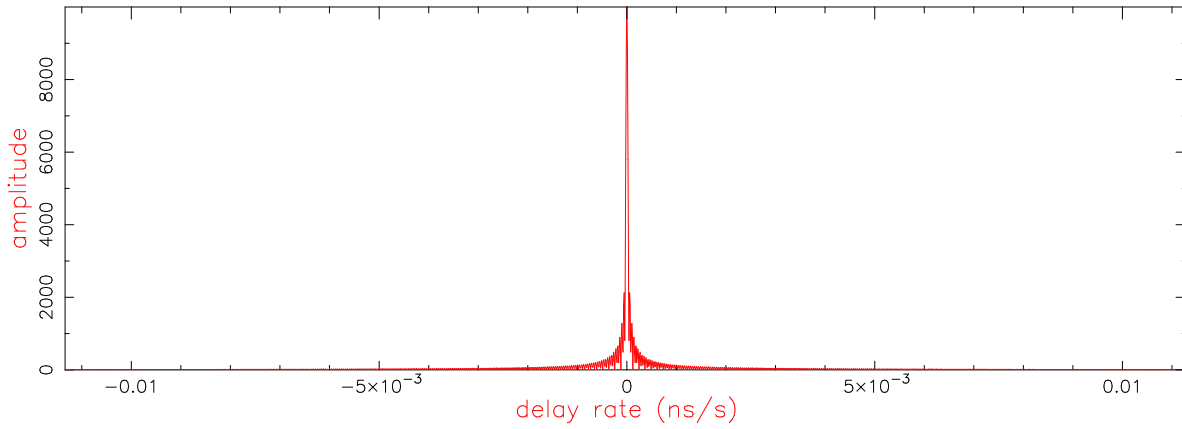
Y: az 246.0 el 48.3 pa 46.5 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//YY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//YY.W.249.0QR3WR

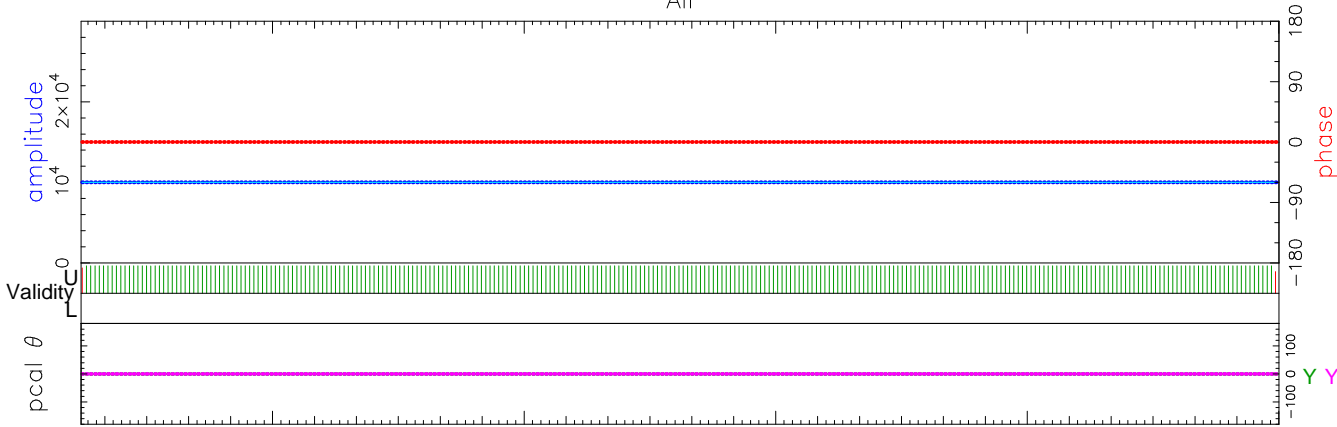
Fringe quality 9

SNR 115479.5
Int time 285.322
Amp 9999.999
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
0.2
10000.0
513.0
U/L 558/0
Y 0
Y 0
Y:Y 0:0
Y:Y 0:0
Y 1000
Y 1000
Y W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

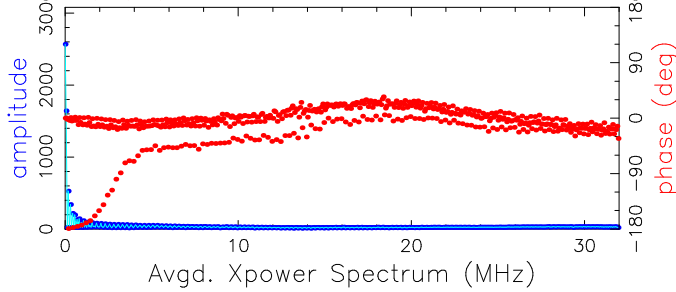
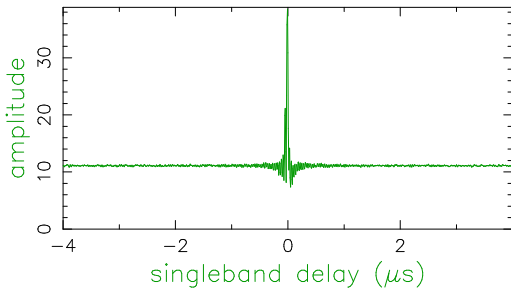
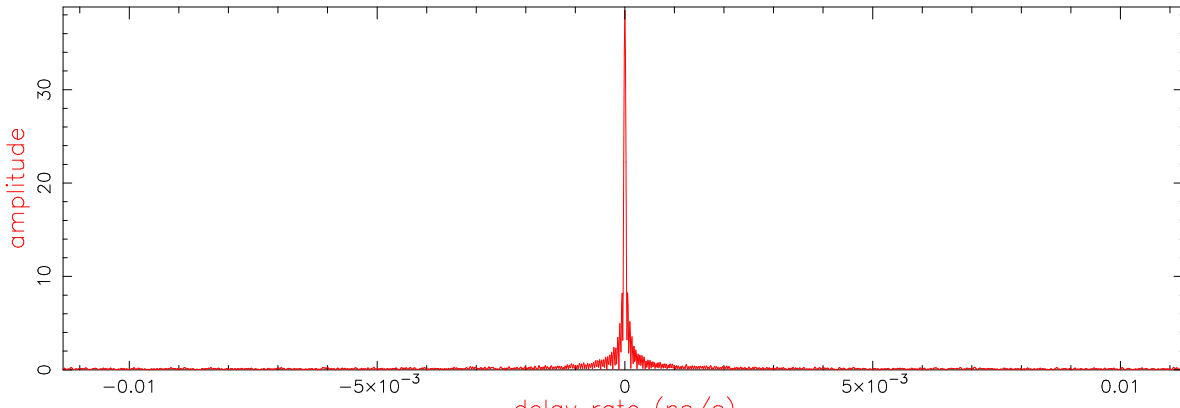
Group delay (usec)(sbd)	4.70975824788E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.89063E-06	+/- 1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 1.5E-07
Phase delay (usec)	6.39947204571E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.39947E-09	+/- 3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 1.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9999.999 +/- 0.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.0		0.0	Search (2048X8)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	9999.999	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

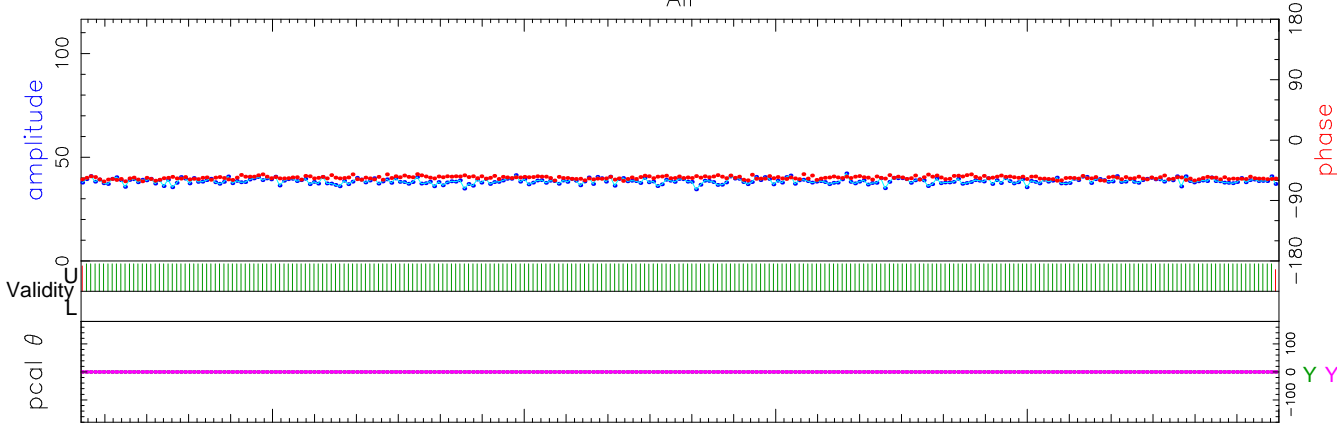
Y: az 246.0 el 48.3 pa 46.5 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//YY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//YY.W.264.0QR3WR

Fringe quality 9

SNR 448.7
Int time 285.322
Amp 38.854
Phase 169.8
PFD 0.0e+00
Delays (us)
SBD -0.009811
MBD -0.000006
Fringe rate (Hz)
0.000014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174218
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-56.0
38.5
511.8
U/L 558/0
Y 0
Y 0
Y:Y 0:0
Y:Y 0:0
Y 1000
Y 1000
Y W06UL
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.80863096840E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.30161E-06	+/-	3.8E-05
Sband delay (usec)	-9.81100000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-9.81100E-03	+/-	3.8E-05
Phase delay (usec)	-1.80624195654E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.80624E-06	+/-	8.2E-09
Delay rate (us/s)	1.62259694885E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.62260E-10	+/-	5.0E-11
Total phase (deg)	169.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	169.8	+/-	0.3

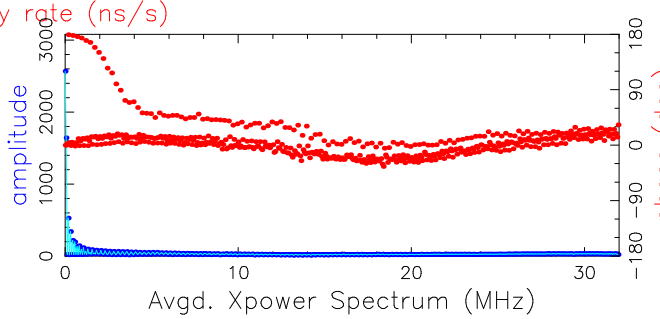
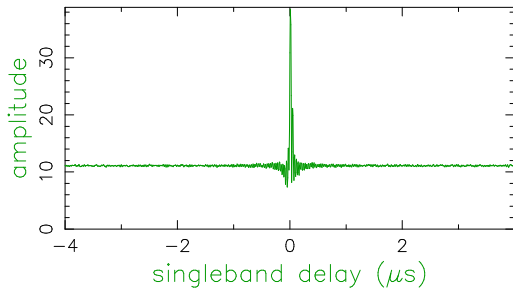
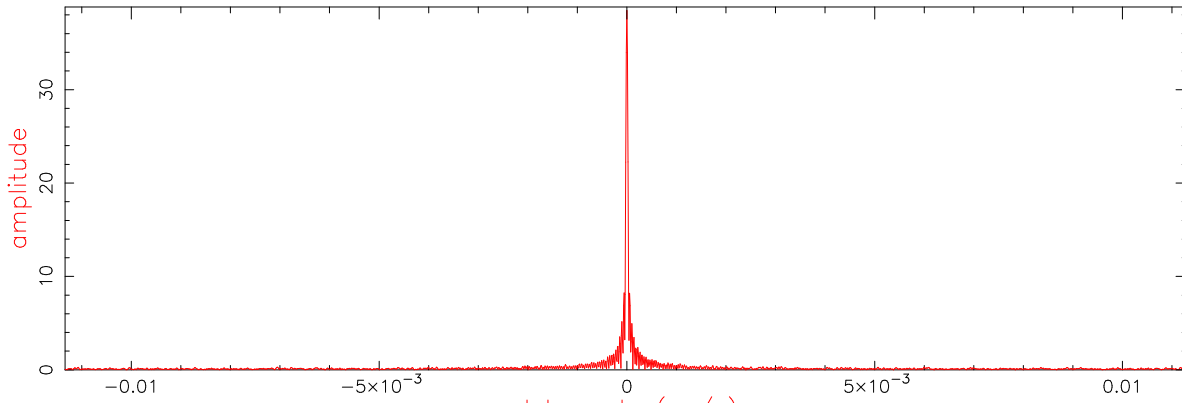
ph/seg (deg)	2.1	Theor.	2.1	Amplitude	38.854 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	3.3		3.7	Search (2048X8)	38.492	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0		0.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.9		0.2	Inc. seg. avg.	38.493	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	38.493	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00

Y: az 246.0 el 48.3 pa 46.5 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//YY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//YY.W.274.0QR3WR

Fringe quality 9

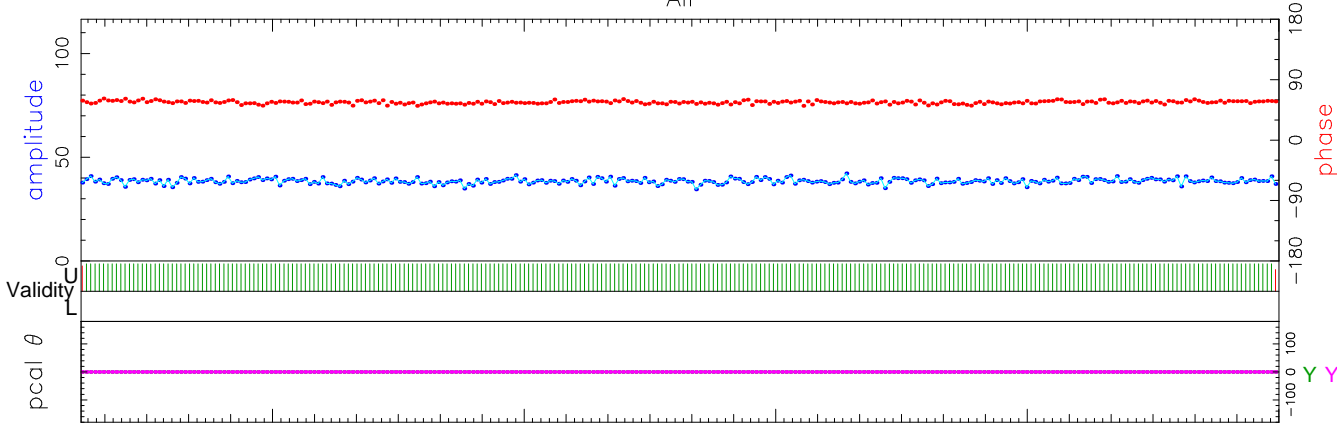
SNR 448.7
Int time 285.322
Amp 38.854
Phase -169.8
PFD 0.0e+00
Delays (us)
SBD 0.009811
MBD -0.000006
Fringe rate (Hz)
-0.000014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
56.4
38.5
514.2
U/L 558/0
Y 0
Y 0
Y:Y 0:0
Y:Y 0:0
Y 1000
Y 1000
Y W06UR
Y W06UL

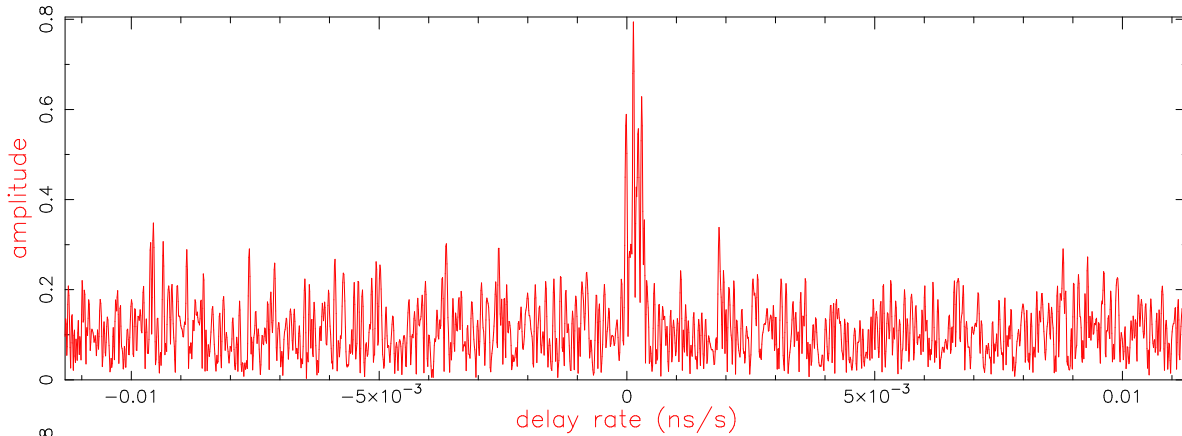
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.80830773514E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.62201E-06	+/-	3.8E-05
Sband delay (usec)	9.81100000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	9.81100E-03	+/-	3.8E-05
Phase delay (usec)	1.81731567220E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.81732E-06	+/-	8.2E-09
Delay rate (us/s)	-1.62259694885E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.62260E-10	+/-	5.0E-11
Total phase (deg)	-169.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-169.8	+/-	0.3

ph/seg (deg)	2.1	Theor.	2.1	Amplitude	38.854 +/- 0.087	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	3.3		3.7	Search (2048X8)	38.492	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0		0.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.9		0.2	Inc. seg. avg.	38.493	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
				Inc. frq. avg.	38.493	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

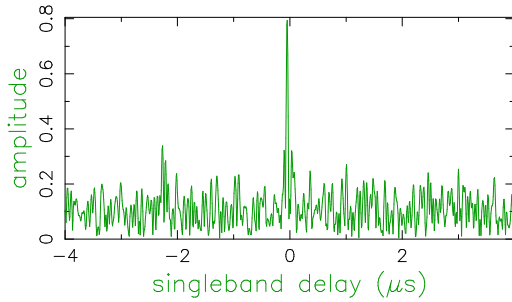
Y: az 246.0 el 48.3 pa 46.5 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//YY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//YY.W.292.0QR3WR

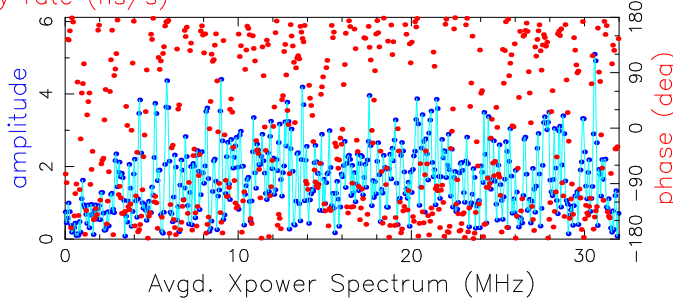


Fringe quality 9

SNR 9.4
Int time 291.861
Amp 0.805
Phase 335.3
PFD 1.0e-12
Delays (us)
SBD -0.049878
MBD 0.000005
Fringe rate (Hz)
0.011231
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

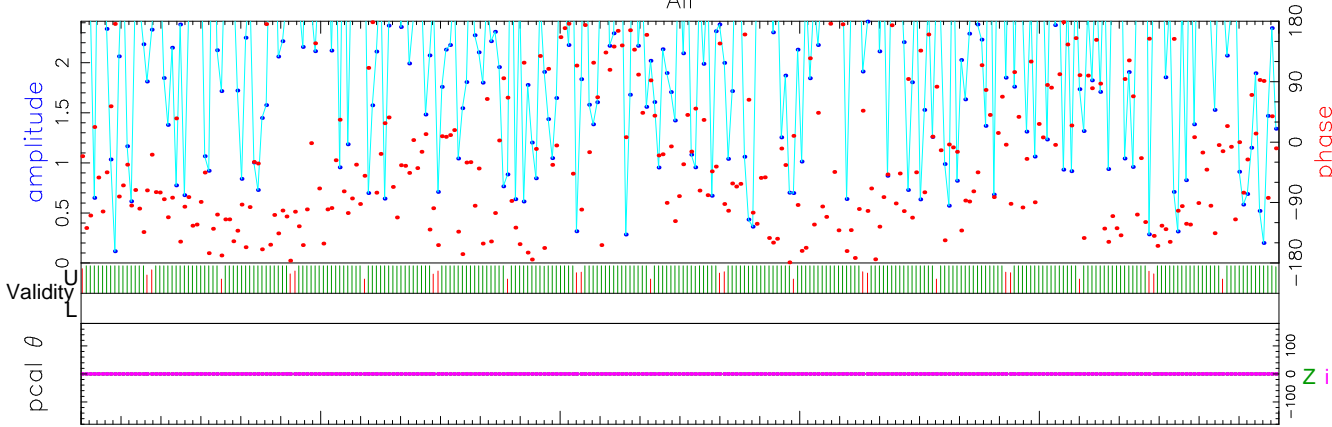


delay rate (ns/s)



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174217
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-94.0
0.8
506.6
U/L 586/0
Z 0
i 0
Z:i 0:0
Z:i 0:0
Z 1000
i 1000
Z W06UL
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.08861167025E+03	Apriori delay (usec)	-7.08856179347E+03	Resid mbdelay (usec)	4.89778E-06	+/-	1.8E-03
Sband delay (usec)	-7.08861167147E+03	Apriori clock (usec)	7.0823097E-01	Resid sbdelay (usec)	-4.98780E-02	+/-	1.8E-03
Phase delay (usec)	-7.08856179650E+03	Apriori clockrate (us/s)	6.4699998E-07	Resid phdelay (usec)	-3.03049E-06	+/-	3.9E-07
Delay rate (us/s)	7.65470355065E-02	Apriori rate (us/s)	7.65469051213E-02	Resid rate (us/s)	1.30385E-07	+/-	2.3E-09
Total phase (deg)	15.0	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	335.3	+/-	12.2

ph/seg (deg)	85.7	Theor.	104.3	Amplitude	0.805 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	222.9	Search (2048X8)	0.789	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.848	Inc. frq. avg.	0.790	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.4	Inc. frq. avg.	0.790			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		
						nlags:	512	t_cohere	infinite		

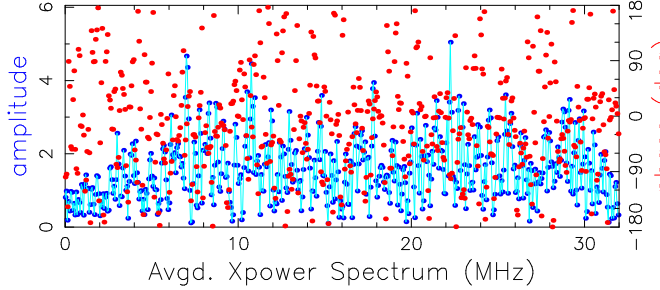
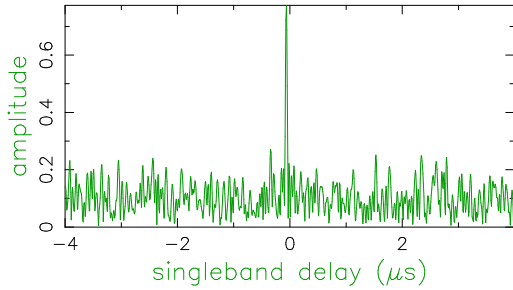
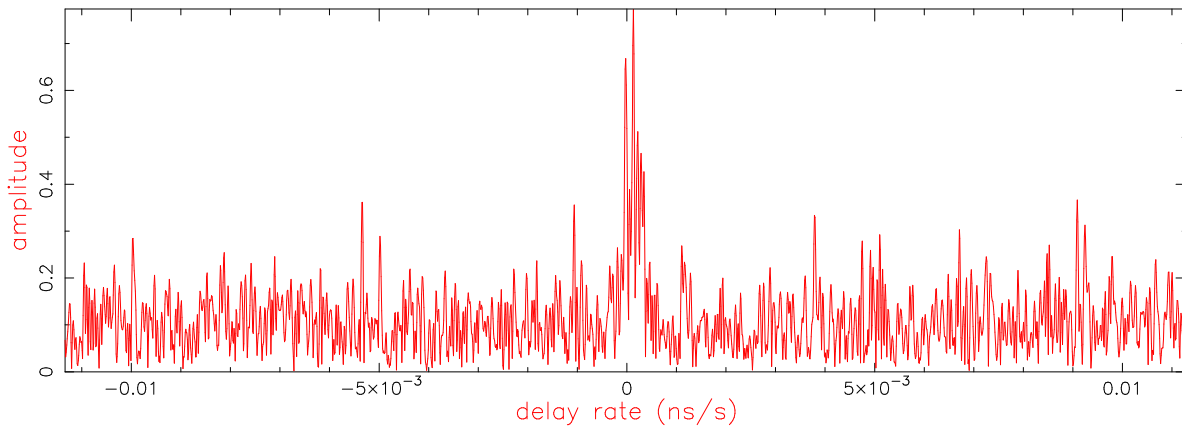
Z: az 257.8 el 25.5 pa 30.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zi.W.265.0QR3WR

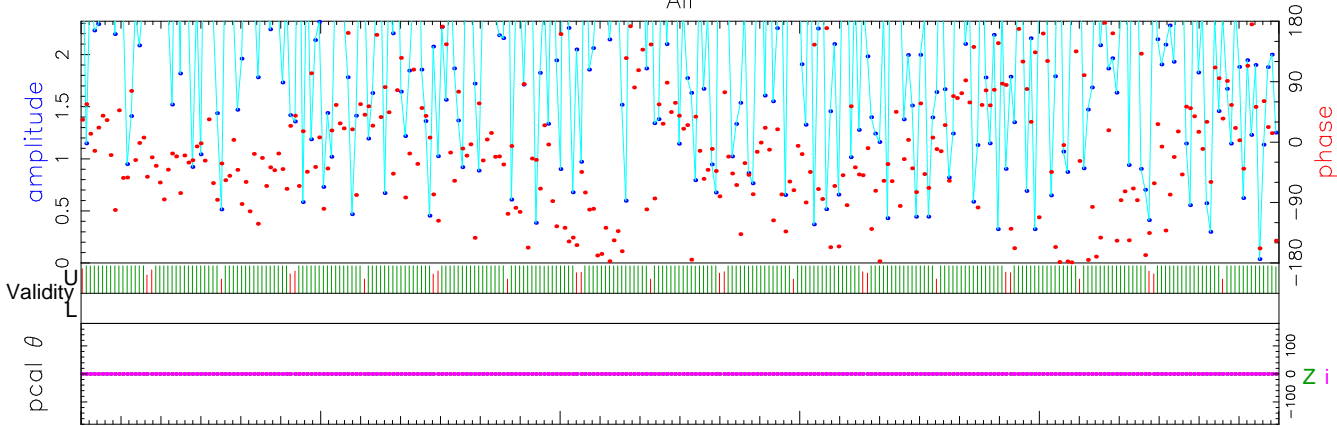
Fringe quality 9

SNR 9.0
Int time 291.861
Amp 0.774
Phase 358.5
PFD 3.2e-11
Delays (us)
SBD -0.063538
MBD 0.000007
Fringe rate (Hz)
0.011655
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-25.7
0.8
504.9
U/L 586/0
Z 0
i 0
Z:i 0:0
Z:i 0:0
Z 1000
i 1000
Z W06UR
i W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

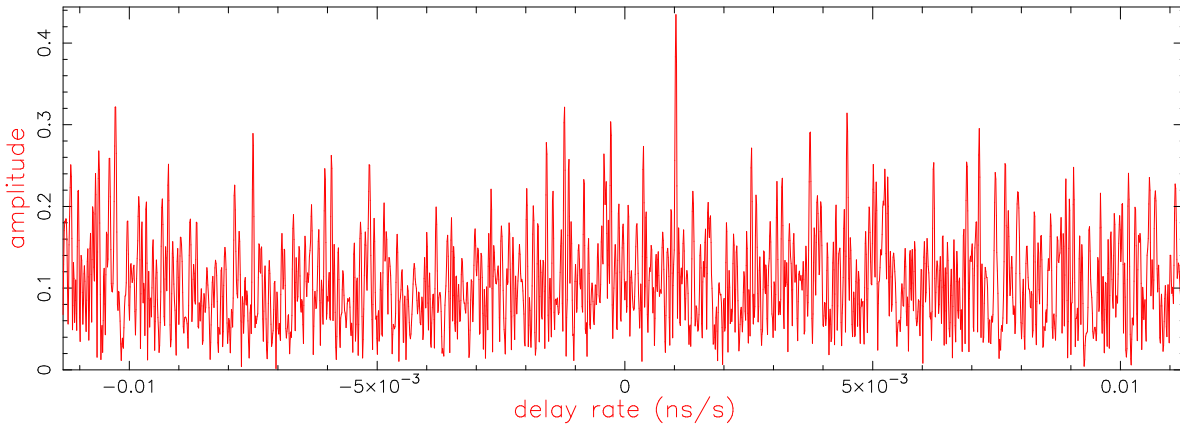
Group delay (usec)(sbd)	-7.08862533319E+03	Apriori delay (usec)	-7.08856179347E+03	Resid mbdelay (usec)	7.22036E-06	+/-	1.9E-03
Sband delay (usec)	-7.08862533147E+03	Apriori clock (usec)	7.0823097E-01	Resid sbdelay (usec)	-6.35380E-02	+/-	1.9E-03
Phase delay (usec)	-7.08856179430E+03	Apriori clockrate (us/s)	6.4699998E-07	Resid phdelay (usec)	-8.27526E-07	+/-	4.1E-07
Delay rate (us/s)	7.65470404289E-02	Apriori rate (us/s)	7.65469051213E-02	Resid rate (us/s)	1.35308E-07	+/-	2.4E-09
Total phase (deg)	38.1	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	358.5	+/-	12.7

ph/seg (deg)	83.7	Theor.	108.5	Amplitude	0.774 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	228.1	Search (2048X8)	0.768	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.774	Inc. frq. avg.	0.768	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.768			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		
						nlags:	512	t_cohere	infinite		

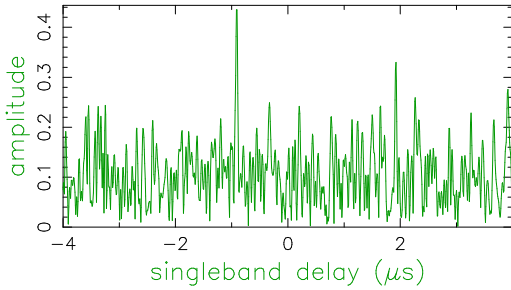
Z: az 257.8 el 25.5 pa 30.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zi.W.278.0QR3WR

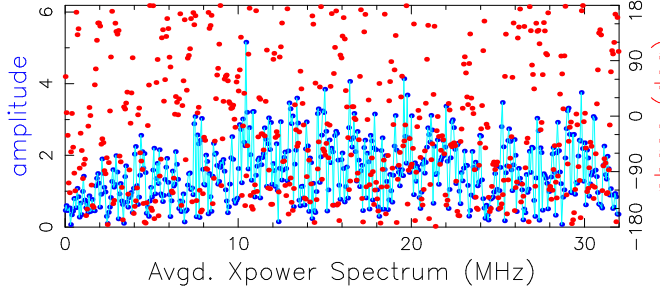
Fringe quality 0



SNR 5.2
 Int time 291.861
 Amp 0.444
 Phase 146.1
 PFD 1.0e+00
 Delays (us)
 SBD -0.910159
 MBD 0.000006
 Fringe rate (Hz)
 0.088842
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



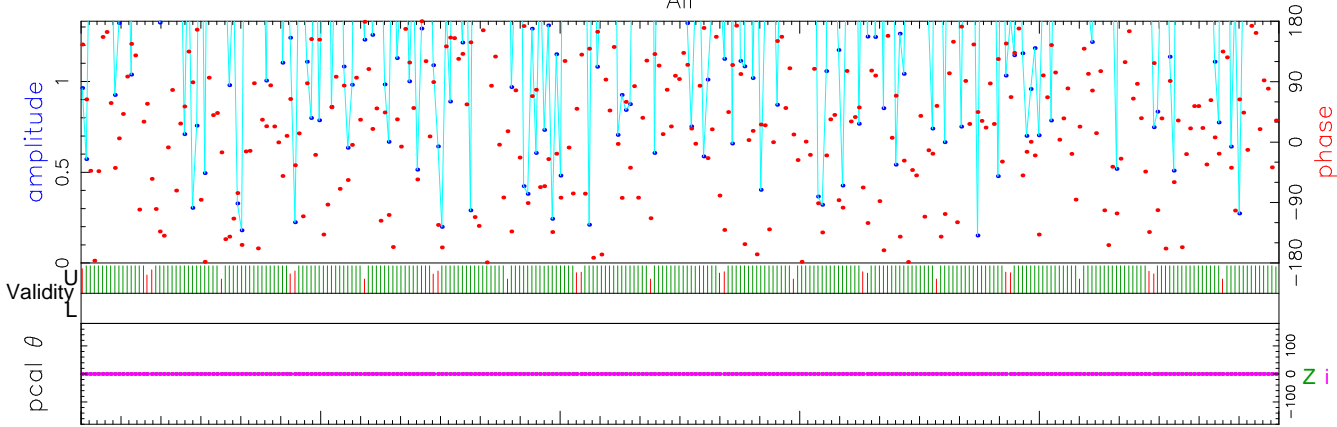
delay rate (ns/s)



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174220
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 55.8
 0.4
 396.5
 U/L 586/0
 Z 0
 i 0
 Z:i 0:0
 Z:i 0:0
 Z 1000
 i 1000
 Z W06UL
 i W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-7.08947195434E+03	Apriori delay (usec)	-7.08856179347E+03	Resid mbdelay (usec)	5.71806E-06	+/- 3.3E-03
Sband delay (usec)	-7.08947195247E+03	Apriori clock (usec)	7.0823097E-01	Resid sbdelay (usec)	-9.10159E-01	+/- 3.3E-03
Phase delay (usec)	-7.08856179167E+03	Apriori clockrate (us/s)	6.4699998E-07	Resid phdelay (usec)	1.79980E-06	+/- 7.1E-07
Delay rate (us/s)	7.65479364893E-02	Apriori rate (us/s)	7.65469051213E-02	Resid rate (us/s)	1.03137E-06	+/- 4.1E-09
Total phase (deg)	185.7	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	146.1	+/- 22.2

ph/seg (deg)	93.2	Theor.	189.7	Amplitude	0.444 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	393.8	Search (2048X8)	0.430	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.290	Inc. frq. avg.	0.428	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.8	Inc. frq. avg.	0.428			Sample rate(MSamp/s): 64	ion window (TEC)	-0.011 0.011	

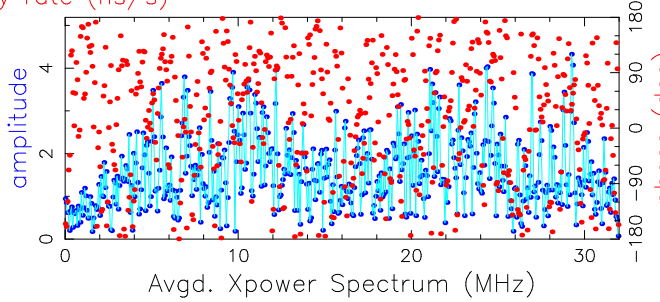
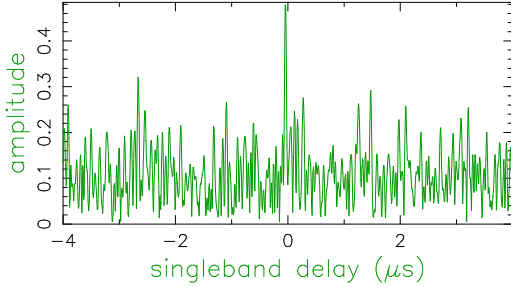
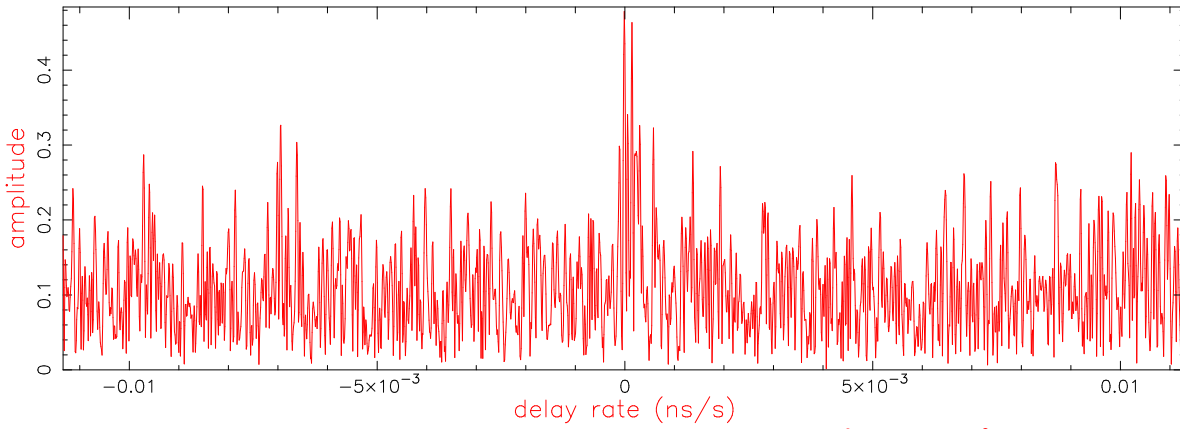
Z: az 257.8 el 25.5 pa 30.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zi.W.290.0QR3WR

Fringe quality 0

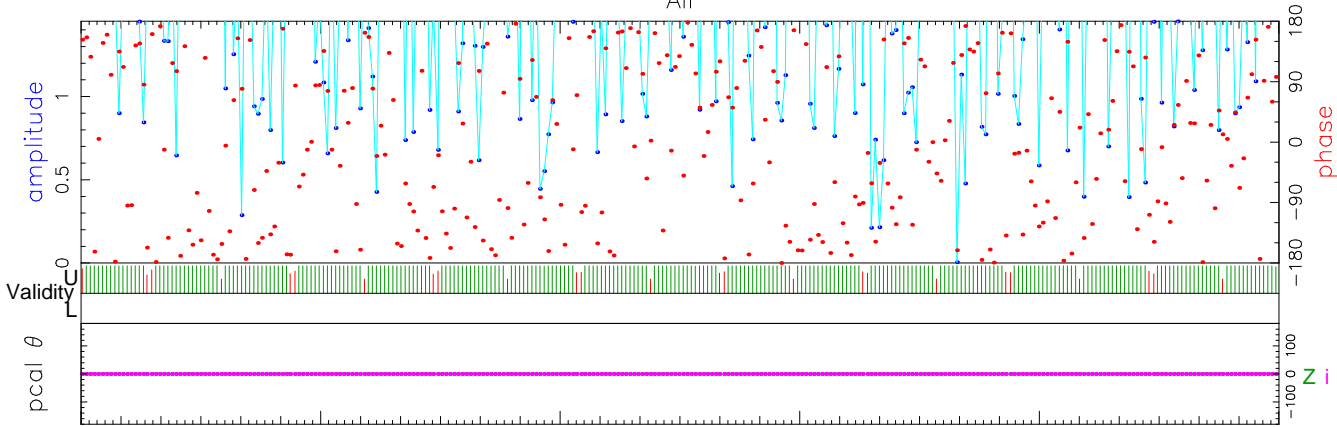
SNR 5.7
Int time 291.861
Amp 0.484
Phase 114.1
PFD 8.5e-01
Delays (us)
SBD -0.043805
MBD -0.000007
Fringe rate (Hz)
-0.001147
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174221
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
-175.1
0.5
507.4
U/L 586/0
Z 0
i 0
Z:i 0:0
Z:i 0:0
Z 1000
i 1000
Z W06UR
i W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

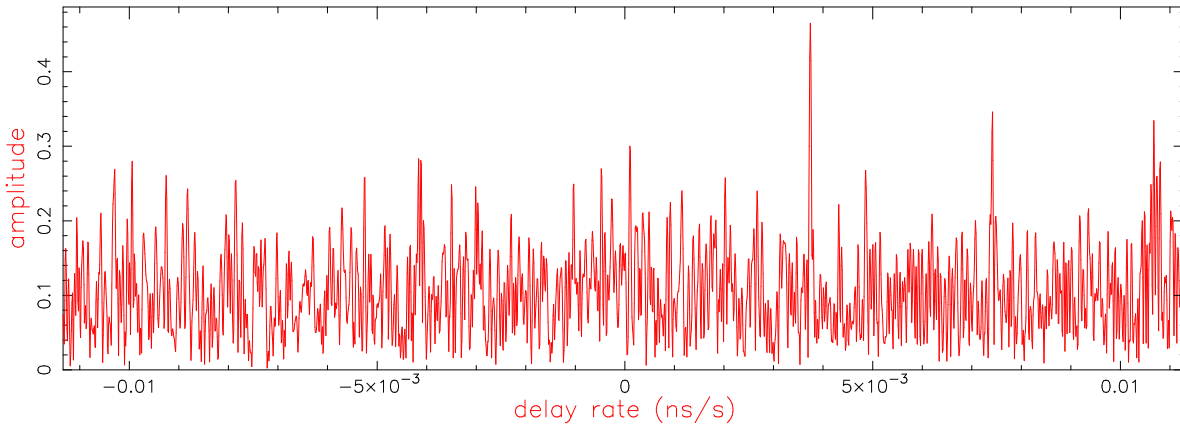
Group delay (usec)(sbd)	-7.08860560343E+03	Apriori delay (usec)	-7.08856179347E+03	Resid mbdelay (usec)	-6.88599E-06	+/-	3.0E-03
Sband delay (usec)	-7.08860559897E+03	Apriori clock (usec)	7.0823097E-01	Resid sbdelay (usec)	-4.38055E-02	+/-	3.0E-03
Phase delay (usec)	-7.08856179912E+03	Apriori clockrate (us/s)	6.4699998E-07	Resid phdelay (usec)	-5.64572E-06	+/-	6.5E-07
Delay rate (us/s)	7.65468918032E-02	Apriori rate (us/s)	7.65469051213E-02	Resid rate (us/s)	-1.33180E-08	+/-	3.8E-09
Total phase (deg)	153.8	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	114.1	+/-	20.3

ph/seg (deg)	91.6	Theor.	173.4	Amplitude	0.484 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	362.4	Search (2048X8)	0.477	Search (2048X8)	0.477	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.2	Inc. seg. avg.	0.347	Inc. seg. avg.	0.347	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.471	Inc. frq. avg.	0.471	Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

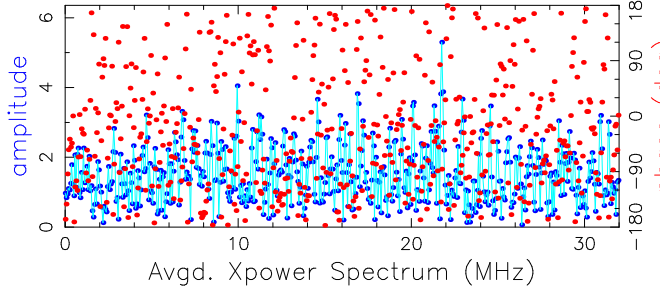
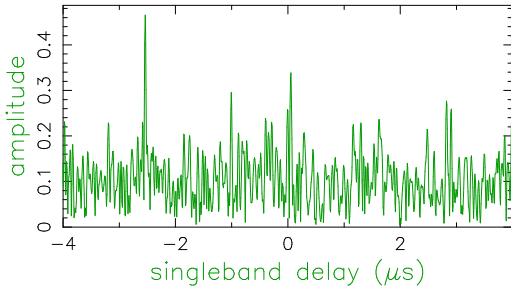
Z: az 257.8 el 25.5 pa 30.4 i: az 249.4 el 49.9 pa 50.9 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zi..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zi.W.300.0QR3WR

Fringe quality 0

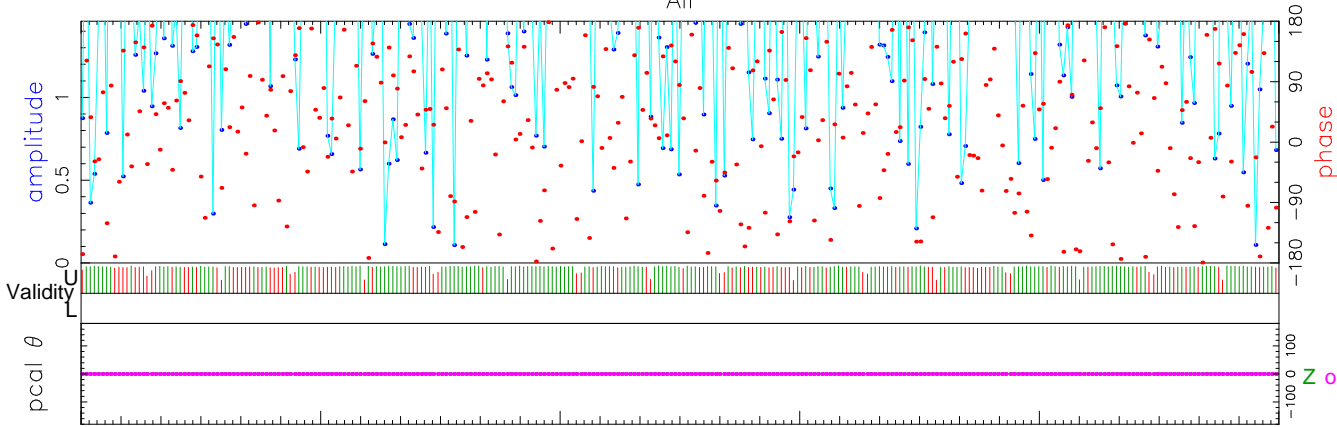


SNR 5.3
Int time 280.121
Amp 0.487
Phase 230.8
PFD 1.0e+00
Delays (us)
SBD -2.538424
MBD 0.000004
Fringe rate (Hz)
0.321798
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
65.4
0.5
188.1
U/L 586/0
Z 0
o 1000
Z:0 0:0
Z:0 0:0
Z 1000
o 1000
Z W06UL
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.21013663783E+03	Apriori delay (usec)	1.21267506554E+03	Resid mbdelay (usec)	4.37933E-06	+/-	3.2E-03
Sband delay (usec)	1.21013664104E+03	Apriori clock (usec)	-2.9179239E+01	Resid sbdelay (usec)	-2.53842E+00	+/-	3.2E-03
Phase delay (usec)	1.21267506765E+03	Apriori clockrate (us/s)	-6.9559972E-08	Resid phdelay (usec)	2.10796E-06	+/-	6.9E-07
Delay rate (us/s)	-1.83322312413E+00	Apriori rate (us/s)	-1.83322685989E+00	Resid rate (us/s)	3.73576E-06	+/-	4.0E-09
Total phase (deg)	283.4	Apriori accel (us/s/s)	1.70401814732E-06	Resid phase (deg)	230.8	+/-	21.5

ph/seg (deg)	RMS 90.9	Theor. 184.1	Amplitude 0.487 +/- 0.091	Search (2048X8)	0.457	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	352.7	321.4	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	10.8	Inc. seg. avg.	0.311		Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1	18.8	Inc. frq. avg.	0.478		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

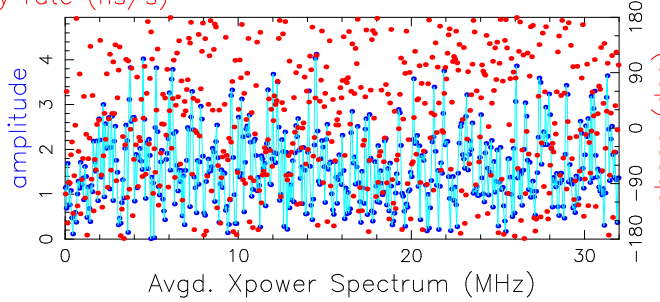
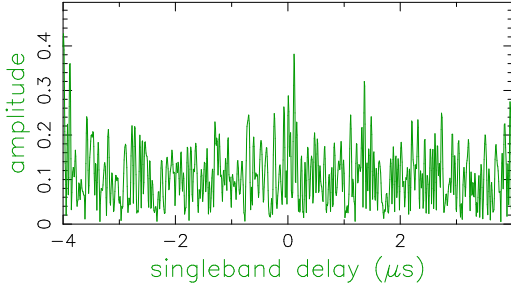
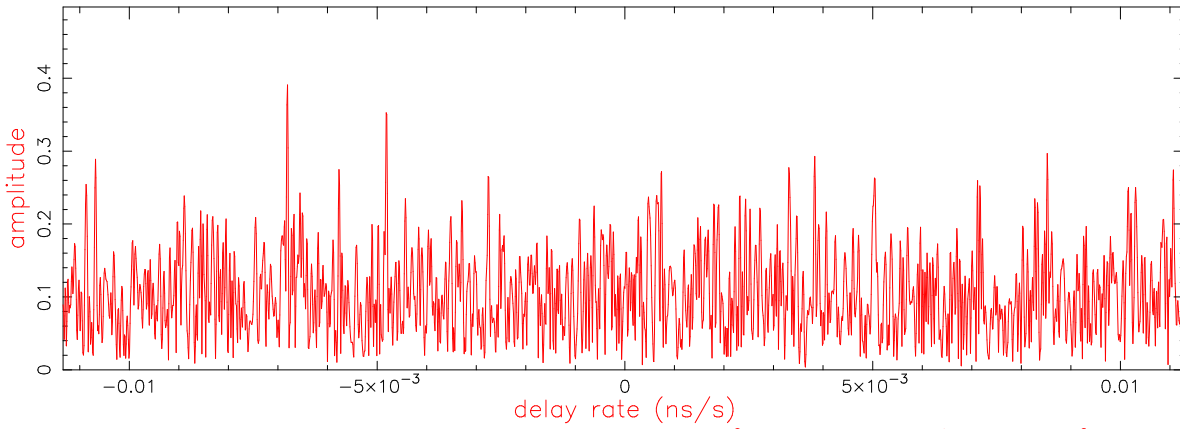
Z: az 257.8 el 25.5 pa 30.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10937.241 2224.847 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zo.W.283.0QR3WR

Fringe quality 0

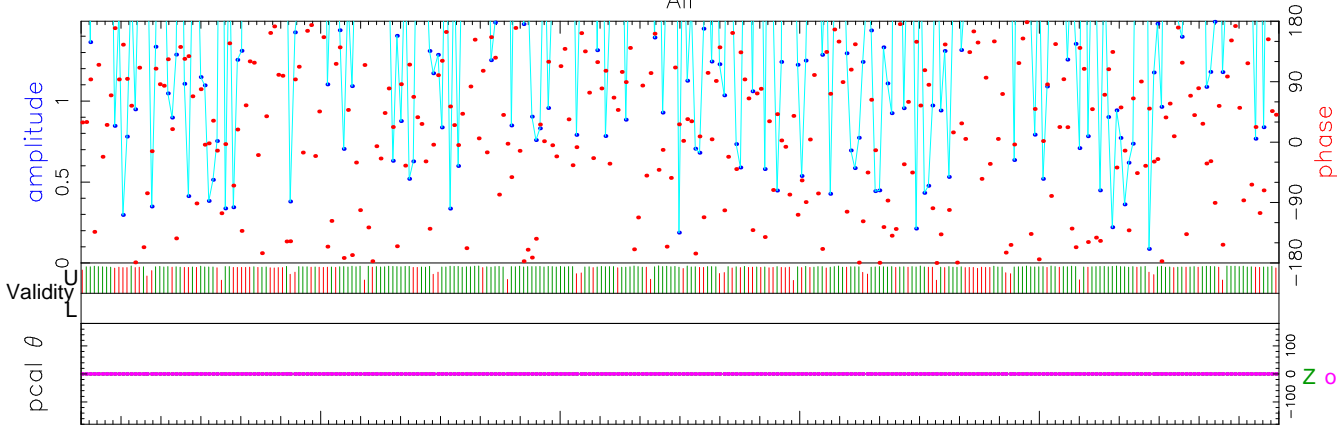
SNR 4.9
Int time 280.123
Amp 0.498
Phase 274.9
PFD 1.0e+00
Delays (us)
SBD -3.992728
MBD -0.000006
Fringe rate (Hz)
-0.586542
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
82.5
0.5
1.9
U/L 586/0
Z 0
o 1000
Z:o 0:0
Z:o 0:0
Z 1000
o 1000
Z W06UR
o W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.20868233336E+03	Apriori delay (usec)	1.21267506554E+03	Resid mbdelay (usec)	-5.62665E-06	+/-	3.5E-03
Sband delay (usec)	1.20868233804E+03	Apriori clock (usec)	-2.9179239E+01	Resid sbdelay (usec)	-3.99273E+00	+/-	3.5E-03
Phase delay (usec)	1.21267506820E+03	Apriori clockrate (us/s)	-6.9559972E-08	Resid phdelay (usec)	2.66000E-06	+/-	7.6E-07
Delay rate (us/s)	-1.83323366906E+00	Apriori rate (us/s)	-1.83322685989E+00	Resid rate (us/s)	-6.80917E-06	+/-	4.4E-09
Total phase (deg)	327.5	Apriori accel (us/s/s)	1.70401814732E-06	Resid phase (deg)	274.9	+/-	23.4

ph/seg (deg)	91.2	Theor.	200.7	Amplitude	0.498 +/- 0.102	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	397.3	Search (2048X8)	0.425	Search (2048X8)	0.425	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	8.5	Inc. seg. avg.	0.298	Inc. seg. avg.	0.298	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.446	Inc. frq. avg.	0.446	Data rate (Mb/s):	128	ion window (TEC)	0.00 0.00		

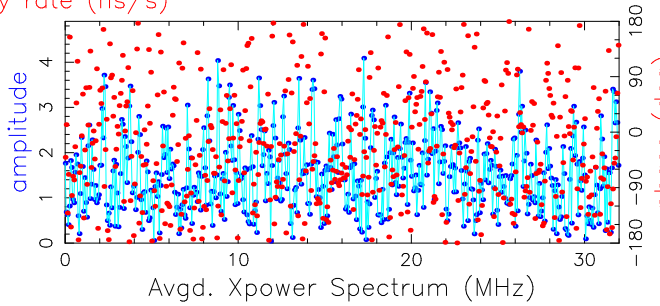
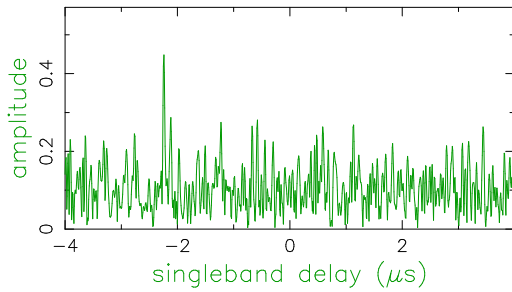
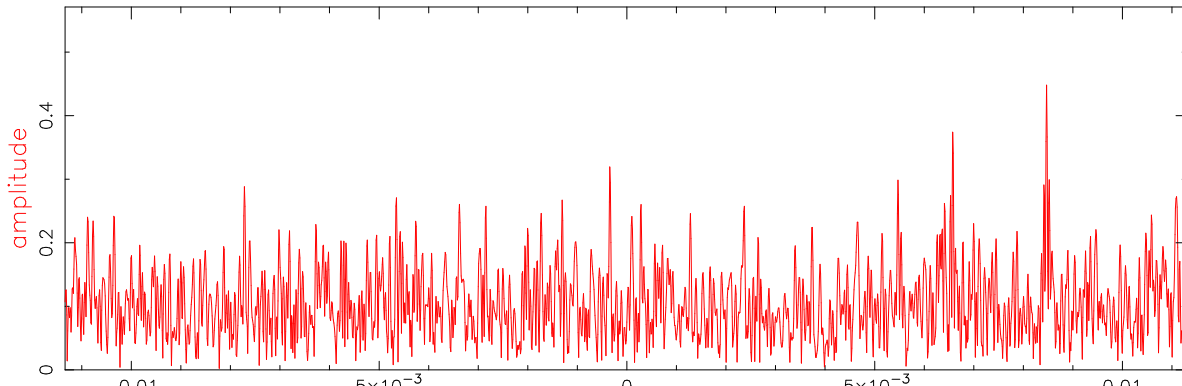
Z: az 257.8 el 25.5 pa 30.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10937.241 2224.847 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zo.W.293.0QR3WR

Fringe quality 0

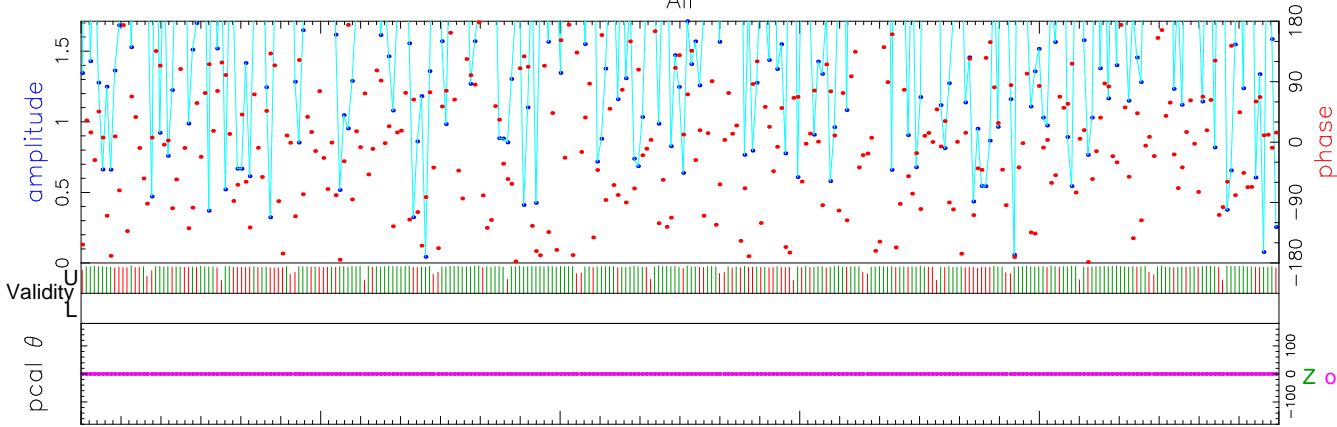
SNR 5.1
Int time 280.123
Amp 0.571
Phase 205.6
PFD 1.0e+00
Delays (us)
SBD -2.243233
MBD 0.000004
Fringe rate (Hz)
0.729386
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174221
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
1.5
0.6
225.9
U/L 586/0
Z 0
o 1000
Z:0 0:0
Z:0 0:0
Z 1000
o 1000
Z W06UL
o W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.21043183292E+03	Apriori delay (usec)	1.21267506554E+03	Resid mbdelay (usec)	4.35121E-06	+/-	3.4E-03
Sband delay (usec)	1.21043183204E+03	Apriori clock (usec)	-2.9179239E+01	Resid sbdelay (usec)	-2.24323E+00	+/-	3.4E-03
Phase delay (usec)	1.21267506559E+03	Apriori clockrate (us/s)	-6.9559972E-08	Resid phdelay (usec)	4.68874E-08	+/-	7.2E-07
Delay rate (us/s)	-1.83321839244E+00	Apriori rate (us/s)	-1.83322685989E+00	Resid rate (us/s)	8.46745E-06	+/-	4.2E-09
Total phase (deg)	258.2	Apriori accel (us/s/s)	1.70401814732E-06	Resid phase (deg)	205.6	+/-	22.3

ph/seg (deg)	90.7	Theor.	191.0	Amplitude	0.571 +/- 0.111	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	373.3	Search (2048X8)	0.442	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.358	Inc. frq. avg.	0.559	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.2	Inc. frq. avg.	0.559			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

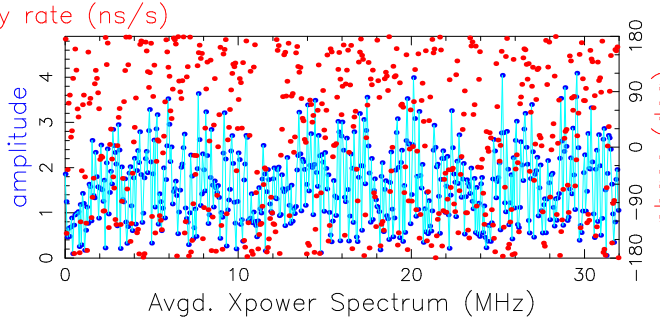
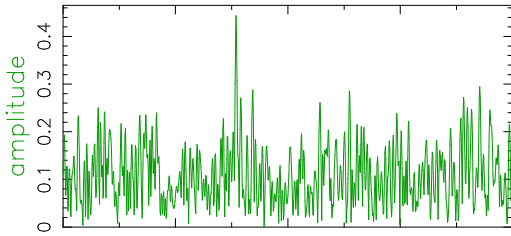
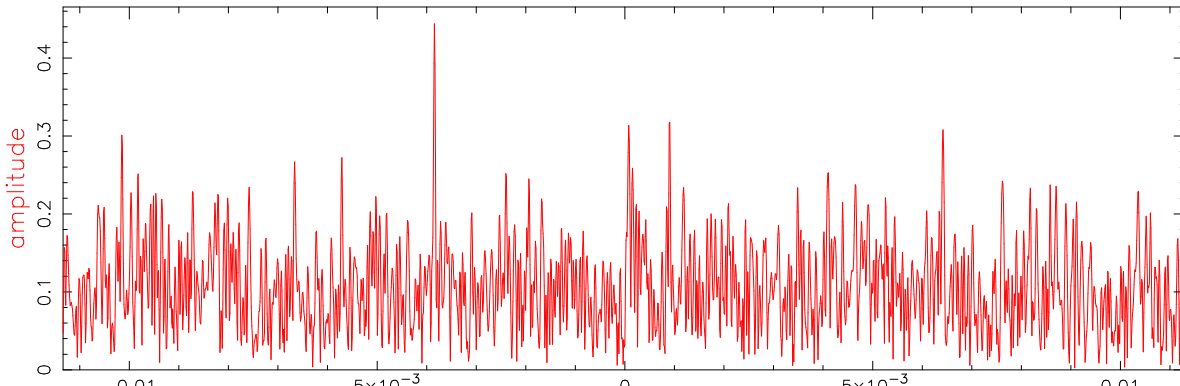
Z: az 257.8 el 25.5 pa 30.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10937.241 2224.847 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zo.W.301.0QR3WR

Fringe quality 0

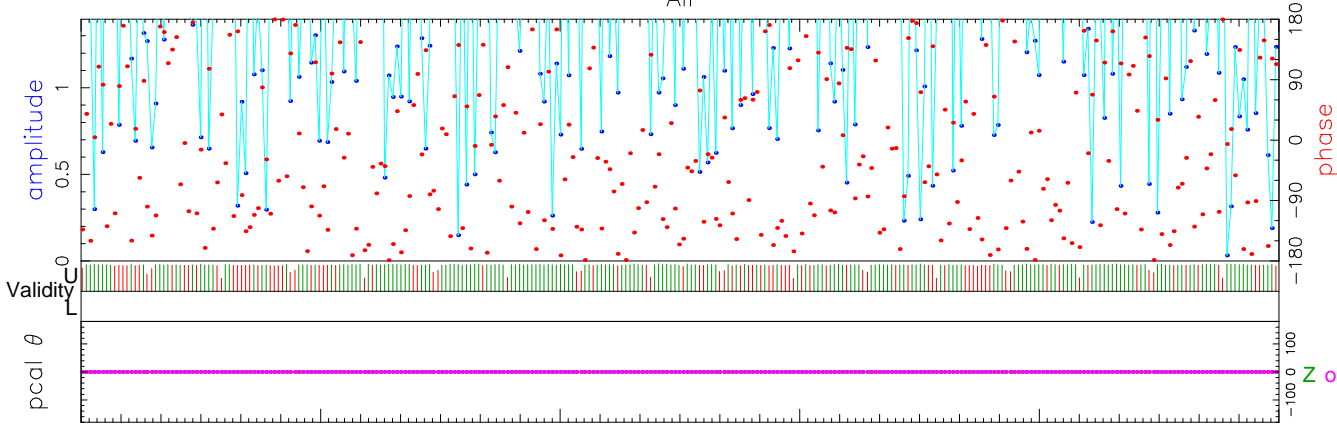
SNR 5.1
Int time 280.121
Amp 0.465
Phase 240.3
PFD 1.0e+00
Delays (us)
SBD -0.922036
MBD -0.000005
Fringe rate (Hz)
-0.330811
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174222
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



Validity
pcal θ
86204.00
-123.3
0.5
395.0
U/L 586/0
Z 0
o 1000
Z:o 0:0
Z:o 0:0
Z 1000
o 1000
Z W06UR
o W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.21175302721E+03	Apriori delay (usec)	1.21267506554E+03	Resid mbdelay (usec)	-4.55088E-06	+/-	3.4E-03
Sband delay (usec)	1.21175303004E+03	Apriori clock (usec)	-2.9179239E+01	Resid sbdelay (usec)	-9.22036E-01	+/-	3.4E-03
Phase delay (usec)	1.21267506157E+03	Apriori clockrate (us/s)	-6.9559972E-08	Resid phdelay (usec)	-3.97733E-06	+/-	7.3E-07
Delay rate (us/s)	-1.83323070028E+00	Apriori rate (us/s)	-1.83322685989E+00	Resid rate (us/s)	-3.84039E-06	+/-	4.2E-09
Total phase (deg)	292.9	Apriori accel (us/s/s)	1.70401814732E-06	Resid phase (deg)	240.3	+/-	22.6

ph/seg (deg)	RMS 91.6	Theor. 193.1	Amplitude 0.465 +/- 0.092	Search (2048X8)	0.443	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	384.5	337.1	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	11.3	Inc. seg. avg.	0.284		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	19.7	Inc. frq. avg.	0.457		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

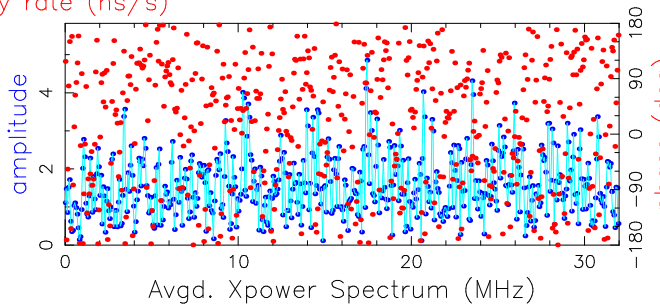
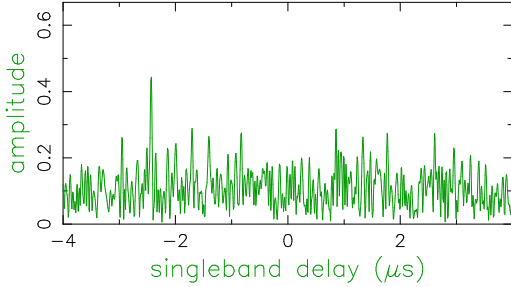
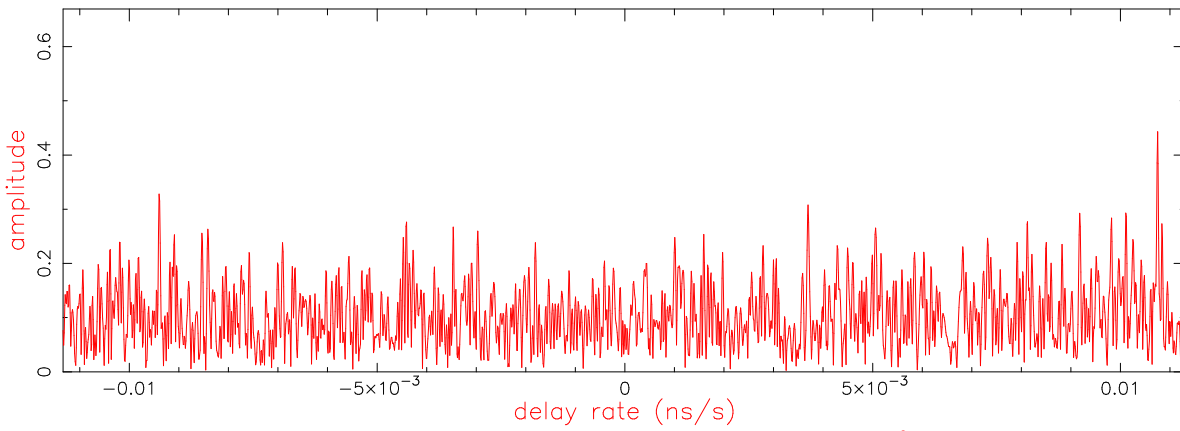
Z: az 257.8 el 25.5 pa 30.4 o: az 85.0 el 20.8 pa -55.7 u,v (fr/asec) 10937.241 2224.847 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zo..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zo.W.307.0QR3WR

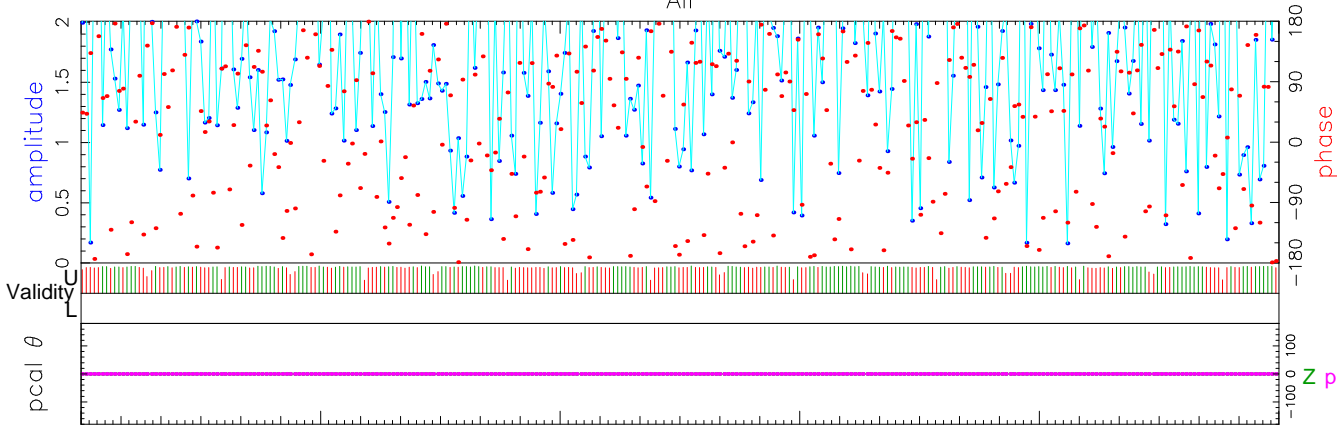
Fringe quality 0

SNR 5.1
Int time 278.166
Amp 0.669
Phase 13.5
PFD 1.0e+00
Delays (us)
SBD -2.432619
MBD 0.000006
Fringe rate (Hz)
0.924890
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174218
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
125.8
0.7
201.6
U/L 586/0
Z 0
p 1000
Z:p 0:0
Z:p 0:0
Z 1000
p 1000
Z W06UL
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp

Chan ids

Chan ids

Group delay (usec)(sbd)	-1.51495007202E+03	Apriori delay (usec)	-1.51251745286E+03	Resid mbdelay (usec)	5.76966E-06	+/-	3.4E-03
Sband delay (usec)	-1.51495007186E+03	Apriori clock (usec)	-3.1158604E+01	Resid sbdelay (usec)	-2.43262E+00	+/-	3.4E-03
Phase delay (usec)	-1.51251744880E+03	Apriori clockrate (us/s)	4.0499998E-07	Resid phdelay (usec)	4.05676E-06	+/-	7.2E-07
Delay rate (us/s)	-1.80166669290E+00	Apriori rate (us/s)	-1.80167742996E+00	Resid rate (us/s)	1.07371E-05	+/-	4.2E-09
Total phase (deg)	233.4	Apriori accel (us/s/s)	1.74901977657E-05	Resid phase (deg)	13.5	+/-	22.4

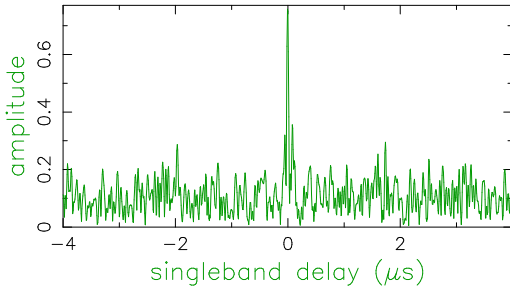
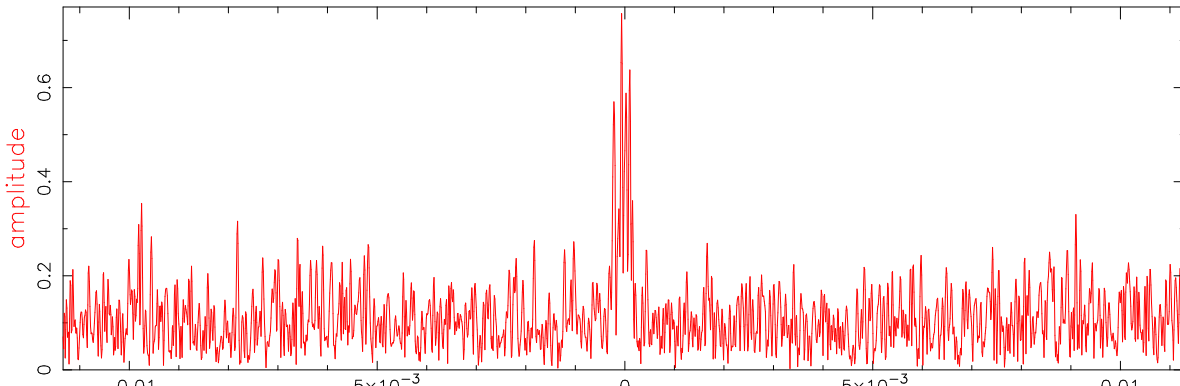
ph/seg (deg)	92.3	Theor.	191.8	Amplitude	0.669 +/- 0.131	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	387.8	Search (2048X8)	0.439	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.429	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.2	Inc. frq. avg.	0.649	Inc. frq. avg.	0.649	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

Z: az 257.8 el 25.5 pa 30.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10769.182 2939.045 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//Zp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//Zp.W.275.0QR3WR

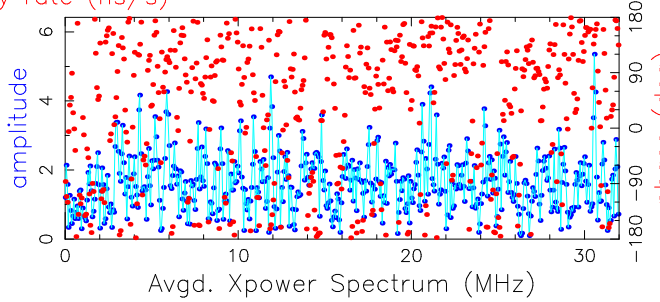
Fringe quality 9

SNR 9.0
Int time 288.761
Amp 0.771
Phase 204.1
PFD 6.2e-11
Delays (us)
SBD -0.004395
MBD -0.000005
Fringe rate (Hz)
-0.005861
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

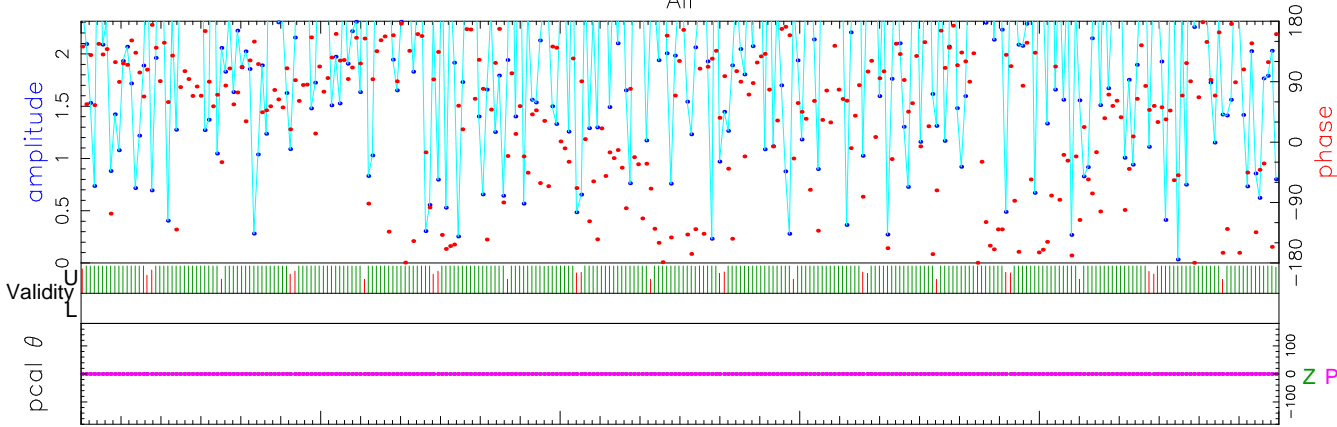


delay rate (ns/s)



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
103.1
0.8
512.4
U/L 586/0
Z 0
P 0
Z:P 0:0
Z:P 0:0
Z 1000
P 1000
Z W06UL
P W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.08905049350E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	-5.08283E-06	+/-	1.9E-03
Sband delay (usec)	-7.08905049847E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	-4.39500E-03	+/-	1.9E-03
Phase delay (usec)	-7.08904610015E+03	Apriori clockrate (us/s)	8.4699999E-07	Resid phdelay (usec)	3.32365E-06	+/-	4.1E-07
Delay rate (us/s)	7.65470370785E-02	Apriori rate (us/s)	7.65471051213E-02	Resid rate (us/s)	-6.80428E-08	+/-	2.4E-09
Total phase (deg)	76.9	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	204.1	+/-	12.8

ph/seg (deg)	83.1	Theor.	109.5	Amplitude	0.771 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	227.1	Search (2048X8)	0.755	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Inc. seg. avg.	0.769	Inc. frq. avg.	0.753	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.8	Inc. frq. avg.	0.753			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

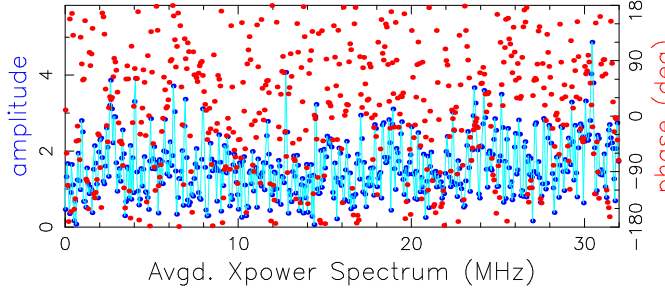
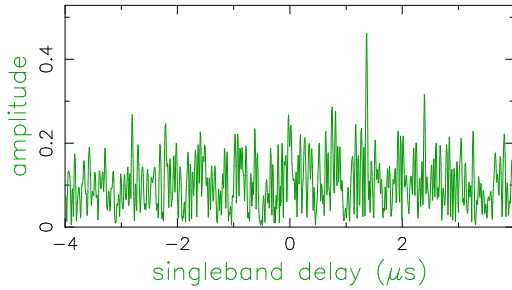
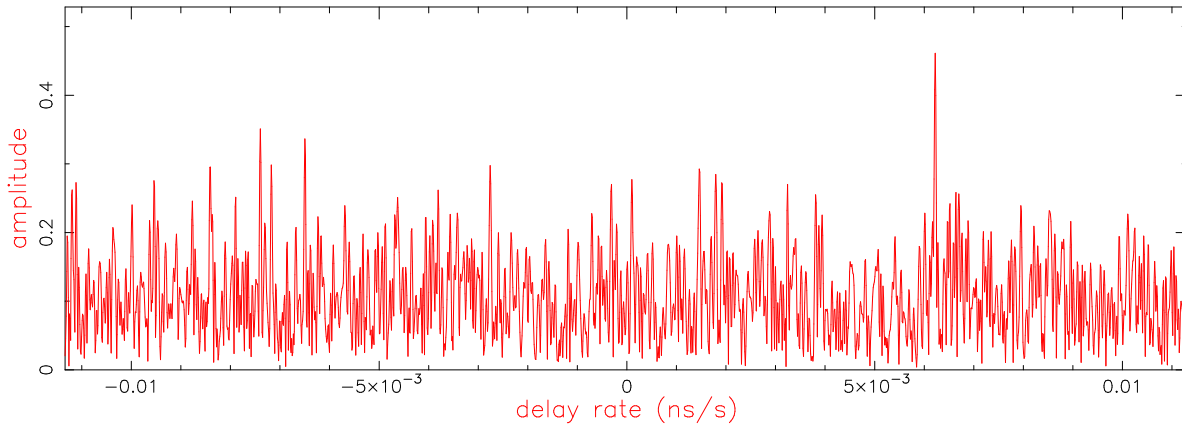
Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZP.W.279.0QR3WR

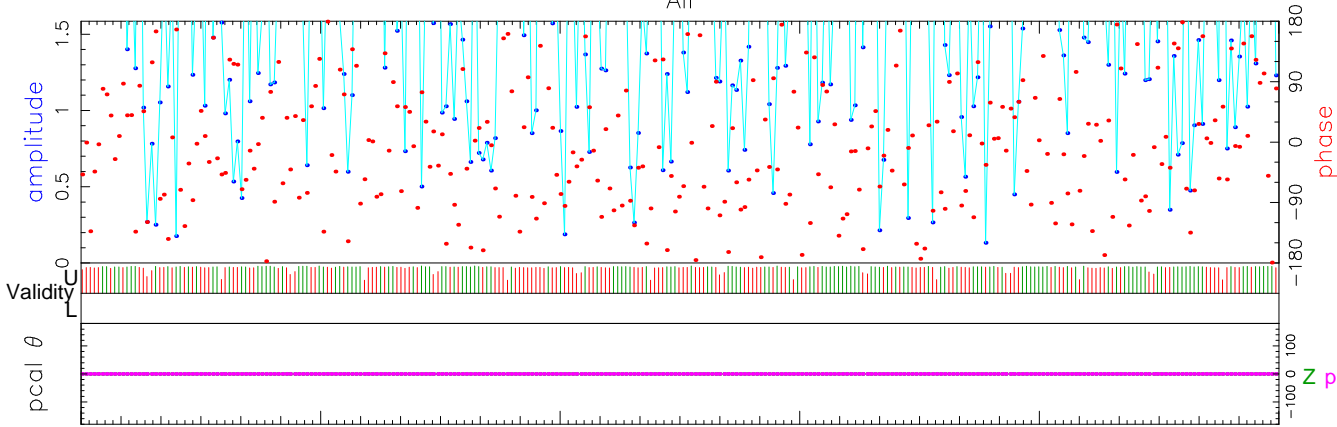
Fringe quality 0

SNR 5.3
Int time 278.162
Amp 0.529
Phase -144.1
PFD 1.0e+00
Delays (us)
SBD 1.364688
MBD 0.000005
Fringe rate (Hz)
0.535533
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-21.9
0.5
687.7
U/L 586/0
Z 0
p 1000
Z:p 0:0
Z:p 0:0
Z 1000
p 1000
Z W06UR
p W06UR

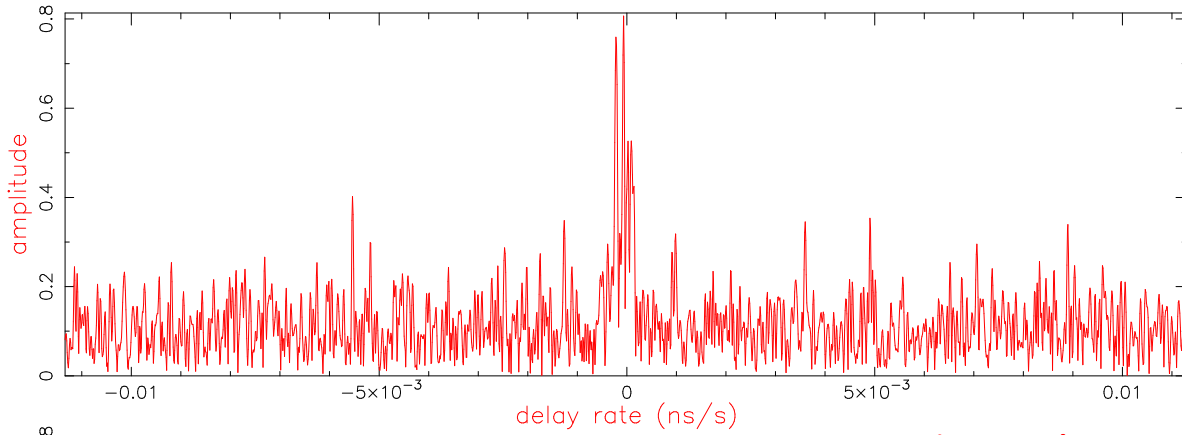
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	-1.51115276646E+03	Apriori delay (usec)	-1.51251745286E+03	Resid mbdelay (usec)	4.94390E-06	+/-	3.2E-03
Sband delay (usec)	-1.51115276486E+03	Apriori clock (usec)	-3.1158604E+01	Resid sbdelay (usec)	1.36469E+00	+/-	3.2E-03
Phase delay (usec)	-1.51251745356E+03	Apriori clockrate (us/s)	4.0499998E-07	Resid phdelay (usec)	-7.04901E-07	+/-	7.0E-07
Delay rate (us/s)	-1.80167121295E+00	Apriori rate (us/s)	-1.80167742996E+00	Resid rate (us/s)	6.21700E-06	+/-	4.0E-09
Total phase (deg)	-284.2	Apriori accel (us/s/s)	1.74901977657E-05	Resid phase (deg)	-144.1	+/-	21.6

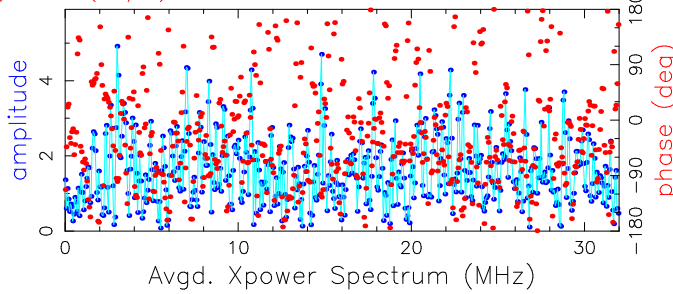
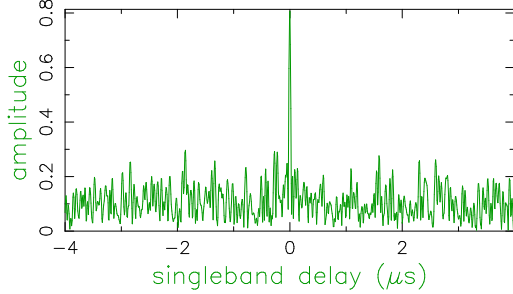
ph/seg (deg)	89.7	Theor.	184.7	Amplitude	0.529 +/- 0.100	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	357.8	Search (2048X8)	0.445	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.341	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.0	Inc. frq. avg.	0.514	Inc. frq. avg.	0.514	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

Z: az 257.8 el 25.5 pa 30.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10769.182 2939.045 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/Zp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/Zp.W.285.0QR3WR



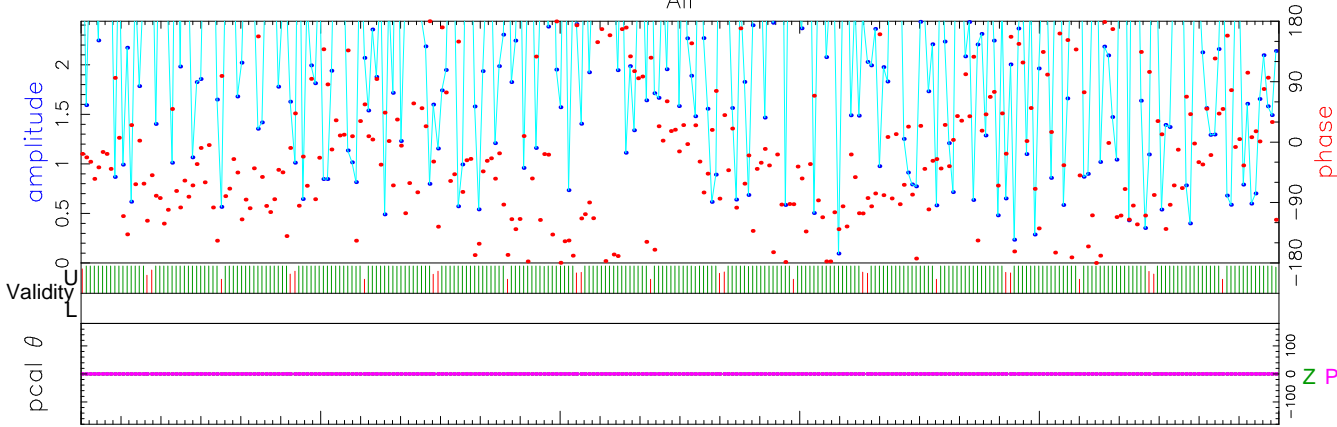
Fringe quality 9

SNR 9.5
Int time 288.761
Amp 0.813
Phase -5.3
PFD 6.8e-13
Delays (us)
SBD -0.002284
MBD -0.000007
Fringe rate (Hz)
-0.005829
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-57.7
0.8
512.7
U/L 586/0
Z 0
P 0
Z:P 0:0
Z:P 0:0
Z 1000
P 1000
Z W06UR
P W06UR

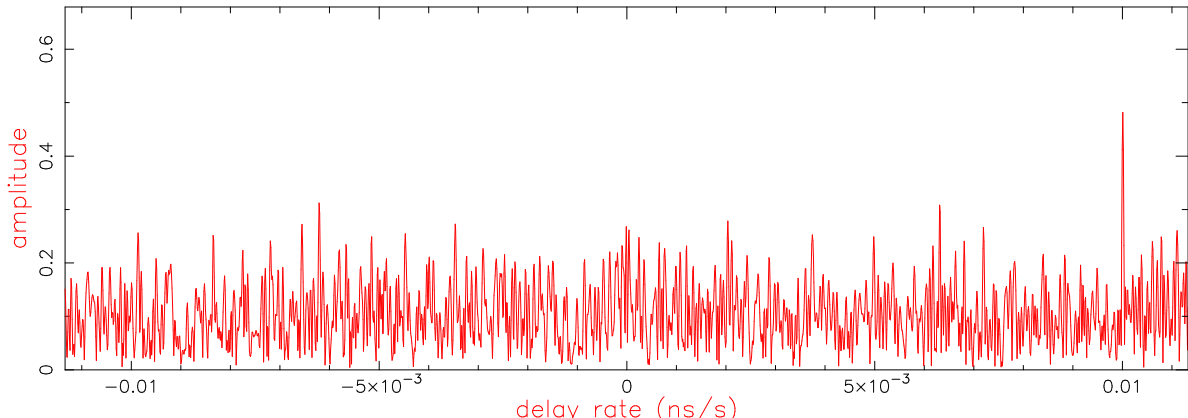
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.08904838412E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	-6.97378E-06	+/-	1.8E-03
Sband delay (usec)	-7.08904838747E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	-2.28400E-03	+/-	1.8E-03
Phase delay (usec)	-7.08904610533E+03	Apriori clockrate (us/s)	8.4699999E-07	Resid phdelay (usec)	-1.85944E-06	+/-	3.9E-07
Delay rate (us/s)	7.65470374562E-02	Apriori rate (us/s)	7.65471051213E-02	Resid rate (us/s)	-6.76651E-08	+/-	2.3E-09
Total phase (deg)	-132.4	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	-5.3	+/-	12.1

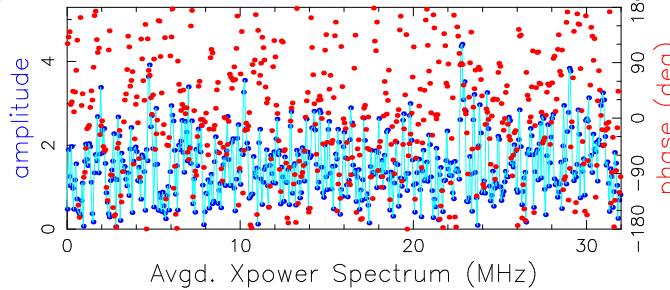
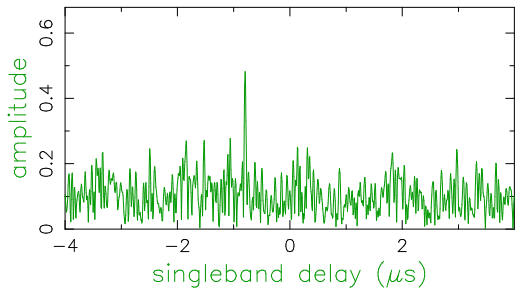
ph/seg (deg)	85.5	Theor.	103.8	Amplitude	0.813 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	239.6	Search (2048X8)	0.805	Search	0.805	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.889	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.8	Inc. frq. avg.	0.802	Inc. frq. avg.	0.802	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

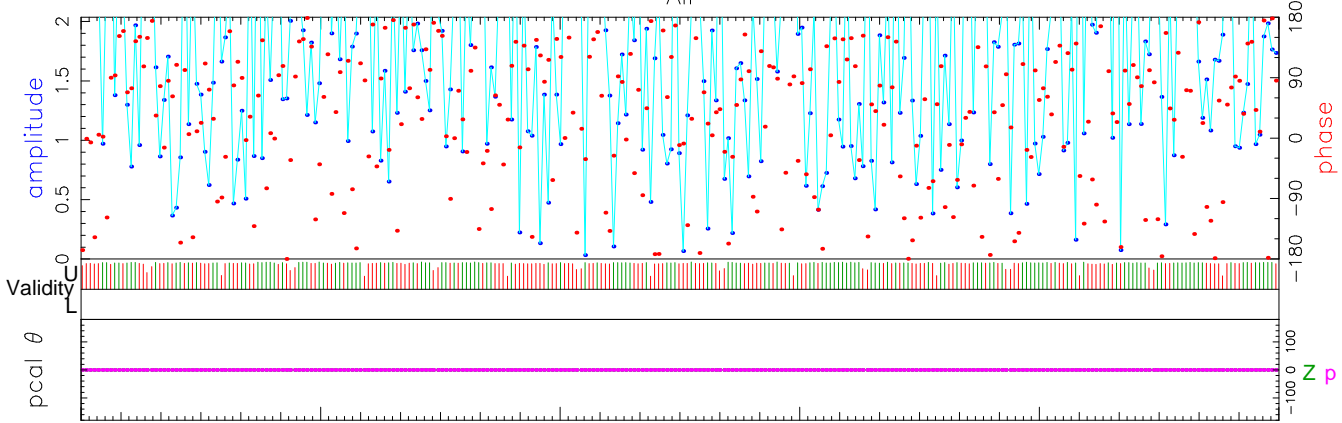
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZP.W.289.0QR3WR



Fringe quality 0
SNR 5.5
Int time 278.162
Amp 0.679
Phase 101.1
PFD 9.9e-01
Delays (us)
SBD -0.797010
MBD 0.000005
Fringe rate (Hz)
0.861284
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



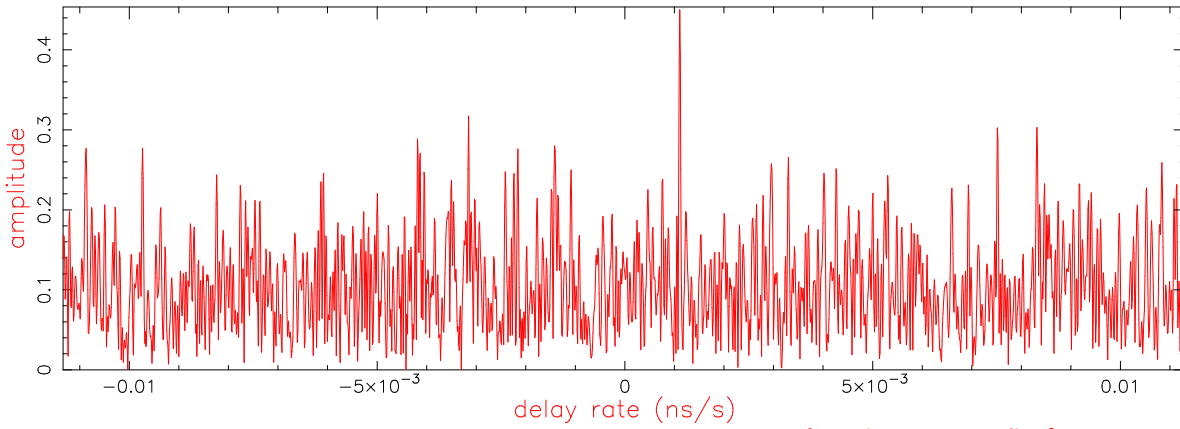
86204.00 Freq (MHz)
97.9 Phase
0.7 Ampl.
411.0 Sbd box
U/L 586/0 APs used
Z 0 PC freqs
p 1000 PC freqs
Z:p 0:0 PC phase
Z:p 0:0 Mani PC
Z 1000 PC amp
p 1000
Z W06UL Chan ids
p W06UR Chan ids

Group delay (usec)(sbd)	-1.51331446432E+03	Apriori delay (usec)	-1.51251745286E+03	Resid mbdelay (usec)	4.91402E-06	+/-	3.1E-03
Sband delay (usec)	-1.51331446286E+03	Apriori clock (usec)	-3.1158604E+01	Resid sbdelay (usec)	-7.97010E-01	+/-	3.1E-03
Phase delay (usec)	-1.51251744970E+03	Apriori clockrate (us/s)	4.0499998E-07	Resid phdelay (usec)	3.15669E-06	+/-	6.7E-07
Delay rate (us/s)	-1.80166743130E+00	Apriori rate (us/s)	-1.80167742996E+00	Resid rate (us/s)	9.99866E-06	+/-	3.9E-09
Total phase (deg)	321.1	Apriori accel (us/s/s)	1.74901977657E-05	Resid phase (deg)	101.1	+/-	20.9

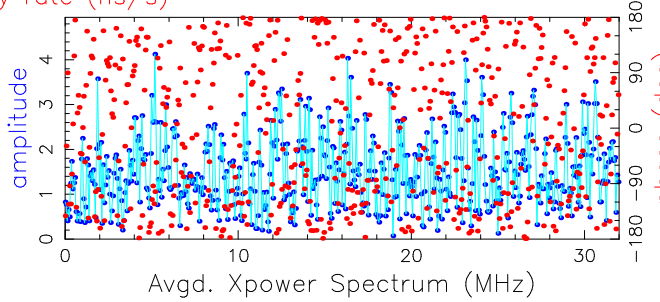
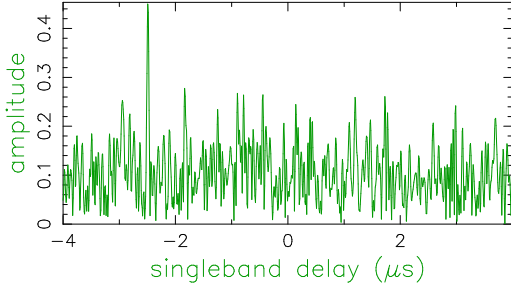
ph/seg (deg)	87.7	Theor.	178.6	Amplitude	0.679 +/- 0.124	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	340.7	Search (2048X8)	0.477	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.438	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.668	Inc. frq. avg.	0.668	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

Z: az 257.8 el 25.5 pa 30.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10769.182 2939.045 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/Zp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/Zp.W.295.0QR3WR

Fringe quality 0



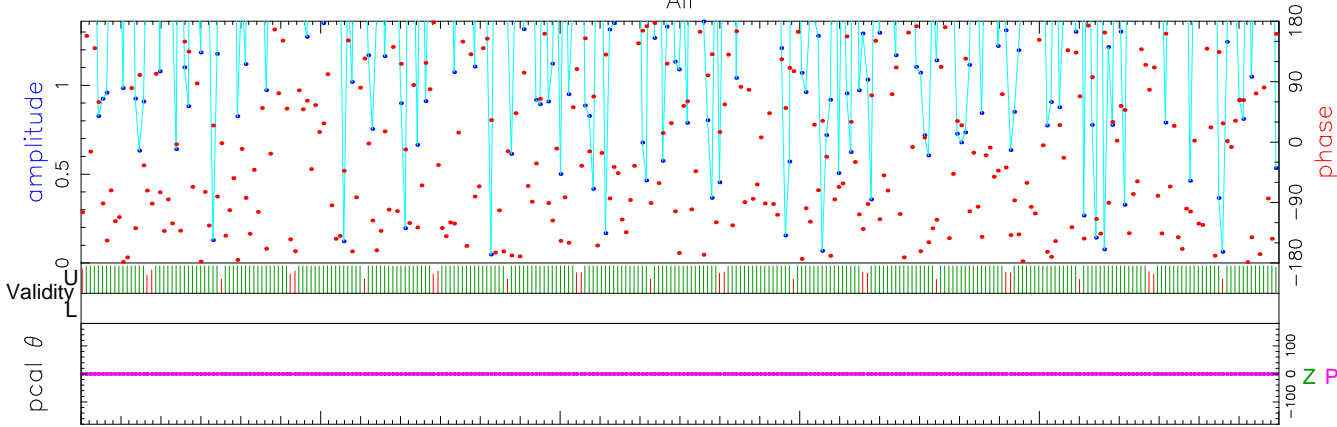
SNR 5.2
 Int time 288.761
 Amp 0.454
 Phase 19.2
 PFD 1.0e+00
 Delays (us)
 SBD -2.490342
 MBD 0.000007
 Fringe rate (Hz)
 0.095332
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174221
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 -118.5
 0.5
 194.2
 U/L 586/0
 Z 0
 P 0
 Z:P 0:0
 Z:P 0:0
 Z 1000
 P 1000
 Z W06UL
 P W06UR

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

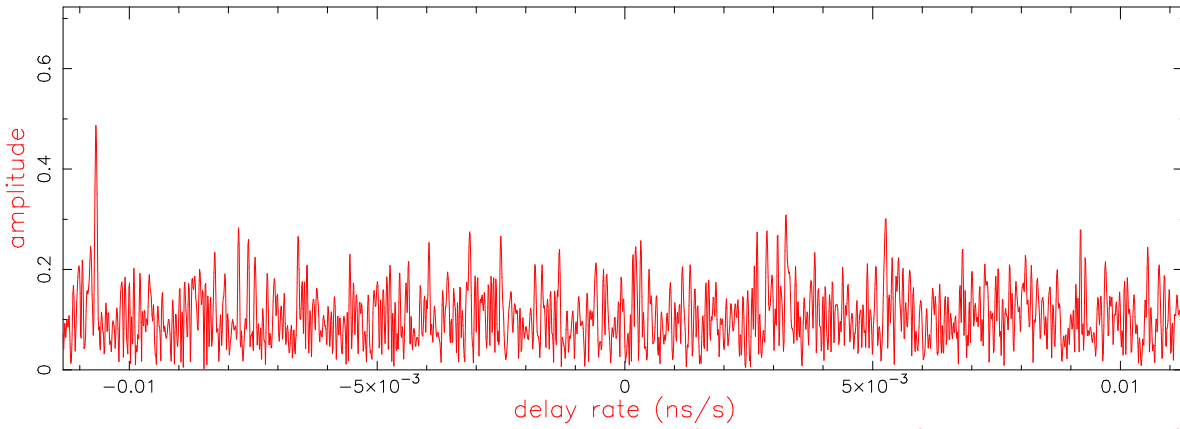
Group delay (usec)(sbd)	-7.09153644490E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	7.05341E-06	+/-	3.3E-03
Sband delay (usec)	-7.091536444547E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	-2.49034E+00	+/-	3.3E-03
Phase delay (usec)	-7.08904610729E+03	Apriori clockrate (us/s)	8.4699999E-07	Resid phdelay (usec)	-3.81989E-06	+/-	7.0E-07
Delay rate (us/s)	7.65482118330E-02	Apriori rate (us/s)	7.65471051213E-02	Resid rate (us/s)	1.10671E-06	+/-	4.1E-09
Total phase (deg)	252.0	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	19.2	+/-	21.8

ph/seg (deg)	94.2	Theor.	186.8	Amplitude	0.454 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	368.0	Search (2048X8)	0.447	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.285	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.4	Inc. frq. avg.	0.444	Inc. frq. avg.	0.444	Sample rate(MSamp/s):	64	mb window (us)	-0.000 0.000
						Data rate(Mb/s):	128	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

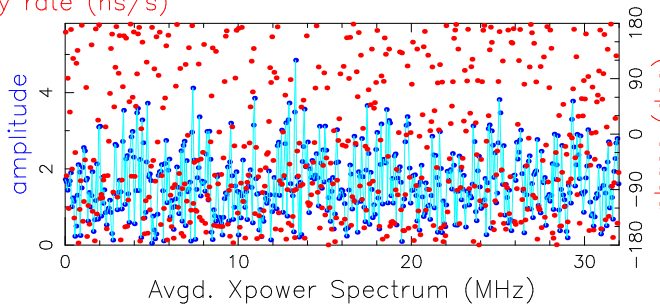
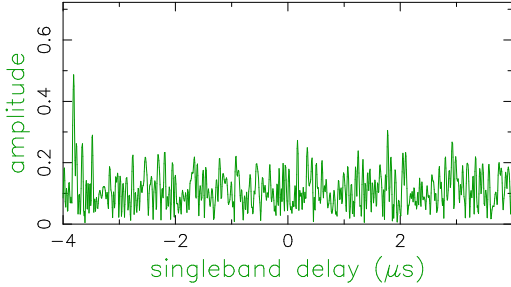
Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZP.W.298.0QR3WR

Fringe quality 0

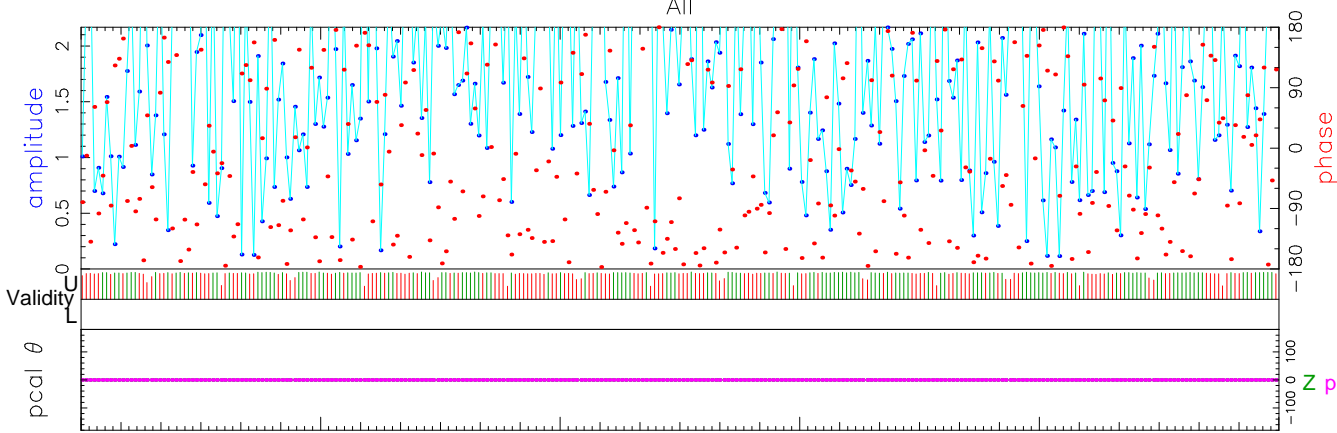


SNR 5.6
Int time 278.166
Amp 0.723
Phase 207.4
PFD 9.7e-01
Delays (us)
SBD -3.811977
MBD -0.000007
Fringe rate (Hz)
-0.918918
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174221
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86204.00
-140.4
0.7
25.1
U/L 586/0
Z 0
p 1000
Z:p 0:0
Z:p 0:0
Z 1000
p 1000
Z W06UR
p W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.51632942897E+03	Apriori delay (usec)	-1.51251745286E+03	Resid mbdelay (usec)	-6.83281E-06	+/-	3.1E-03
Sband delay (usec)	-1.51632943036E+03	Apriori clock (usec)	-3.1158604E+01	Resid sbdelay (usec)	-3.81198E+00	+/-	3.1E-03
Phase delay (usec)	-1.51251745738E+03	Apriori clockrate (us/s)	4.0499998E-07	Resid phdelay (usec)	-4.52726E-06	+/-	6.7E-07
Delay rate (us/s)	-1.80168809768E+00	Apriori rate (us/s)	-1.80167742996E+00	Resid rate (us/s)	-1.06677E-05	+/-	3.8E-09
Total phase (deg)	67.3	Apriori accel (us/s/s)	1.74901977657E-05	Resid phase (deg)	207.4	+/-	20.6

ph/seg (deg)	89.4	Theor.	176.6	Amplitude	0.723 +/- 0.130	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	334.1	Search (2048X8)	0.479	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.464	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	Inc. frq. avg.	0.711	Inc. frq. avg.	0.711	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
						Data rate(Mb/s):	128	ion window (TEC)	0.00 0.00		

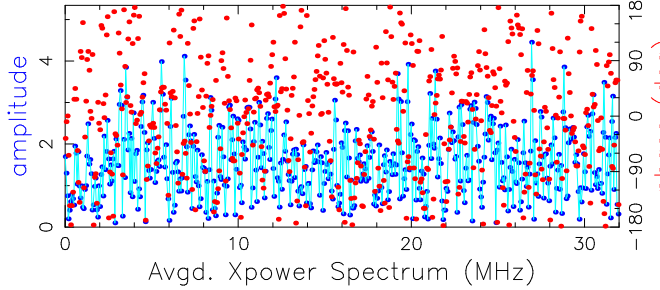
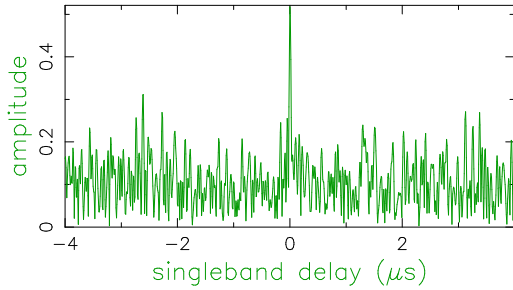
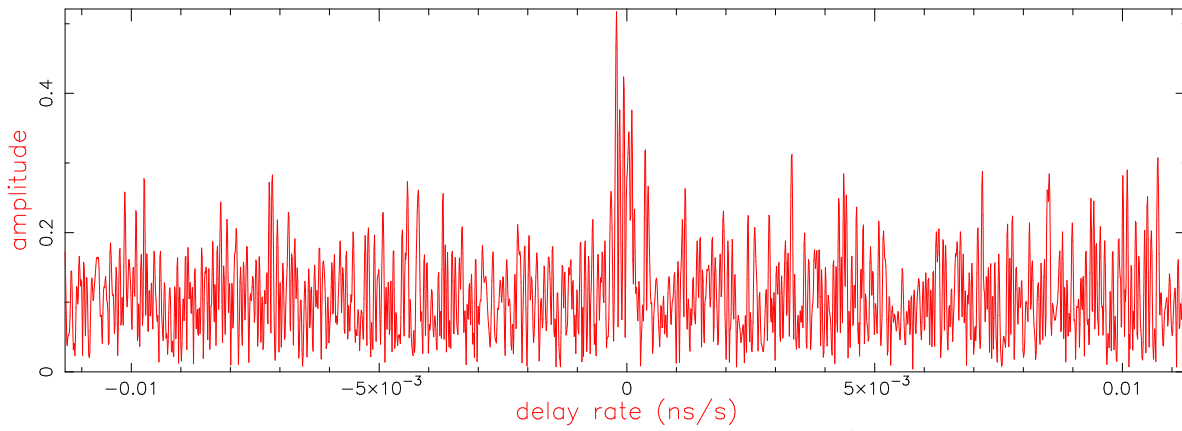
Z: az 257.8 el 25.5 pa 30.4 p: az 89.4 el 28.9 pa -59.3 u,v (fr/asec) 10769.182 2939.045 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/Zp..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/Zp.W.302.0QR3WR

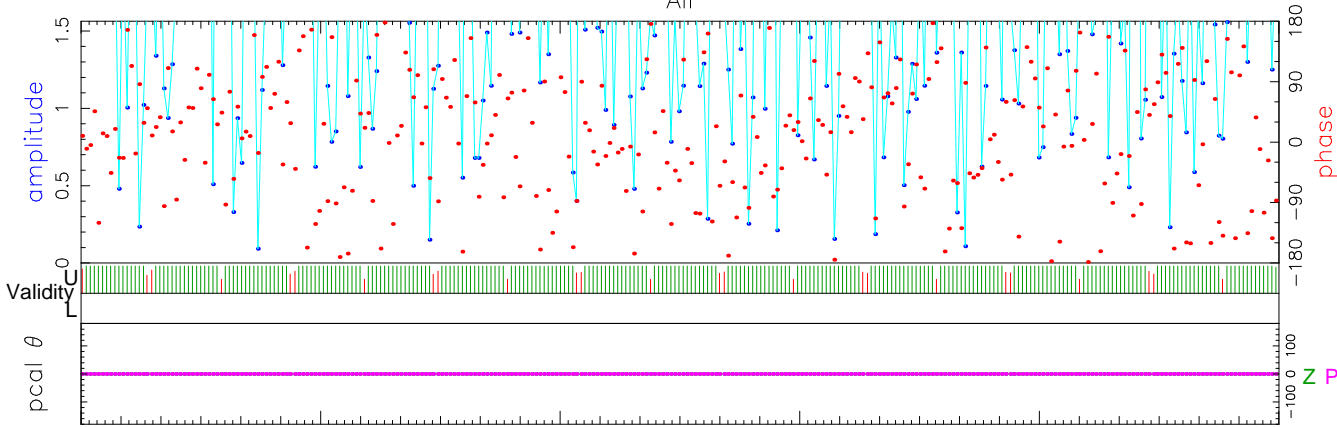
Fringe quality 0

SNR 6.1
Int time 288.761
Amp 0.521
Phase -21.2
PFD 1.7e-01
Delays (us)
SBD 0.002174
MBD -0.000005
Fringe rate (Hz)
-0.017910
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174222
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
29.1
0.5
513.3
U/L 586/0
Z 0
P 0
Z:P 0:0
Z:P 0:0
Z 1000
P 1000
Z W06UR
P W06UL

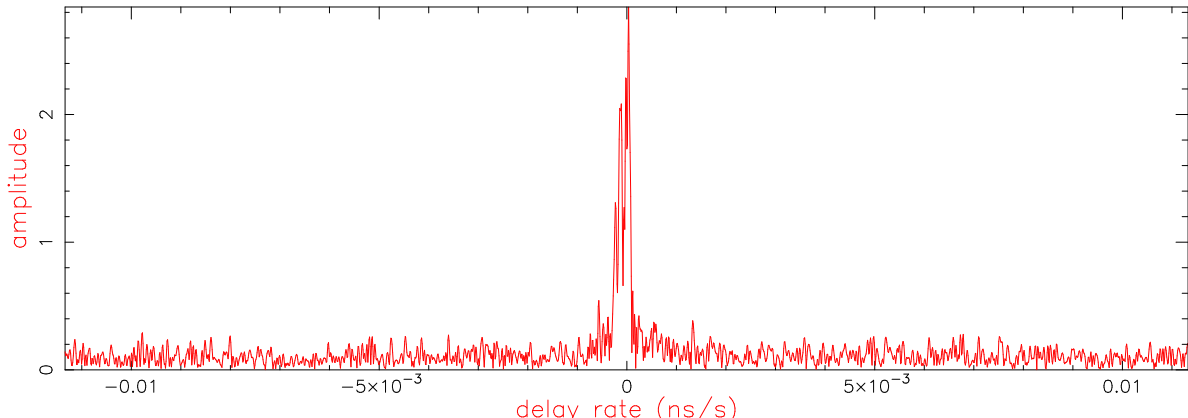
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.08904392730E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	-4.70011E-06	+/-	2.8E-03
Sband delay (usec)	-7.08904392897E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	2.17450E-03	+/-	2.8E-03
Phase delay (usec)	-7.08904610254E+03	Apriori clockrate (us/s)	8.4699999E-07	Resid phdelay (usec)	9.36788E-07	+/-	6.1E-07
Delay rate (us/s)	7.65468972050E-02	Apriori rate (us/s)	7.65471051213E-02	Resid rate (us/s)	-2.07916E-07	+/-	3.5E-09
Total phase (deg)	-148.4	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	-21.2	+/-	18.9

ph/seg (deg)	90.2	Theor.	162.0	Amplitude	0.521 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	337.1	Search (2048X8)	0.514	Search (2048X8)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.389	Inc. seg. avg.	0.389	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.7	Inc. frq. avg.	0.510	Inc. frq. avg.	0.510	Sample rate (MSamp/s):	64	mb window (us)	-0.000 0.000

Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 50.8 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZP..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZP.W.305.0QR3WR



Fringe quality 9

SNR 33.2

Int time 291.770

Amp 2.842

Phase 156.6

PFD 0.0e+00

Delays (us)

SBD -0.016067

MBD 0.000000

Fringe rate (Hz)

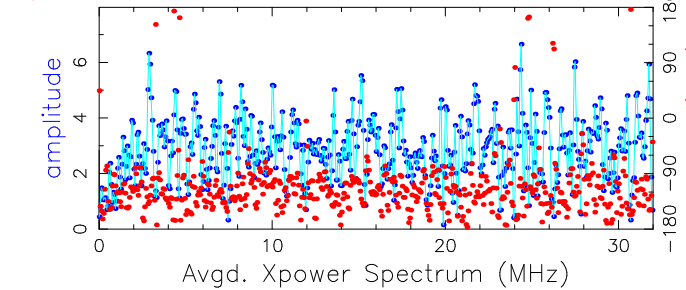
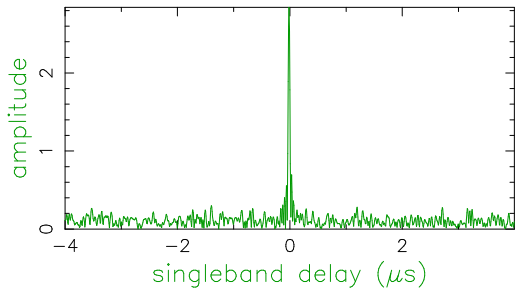
0.003297

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512



Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:093417

2019:212:174218

2018:249:082454

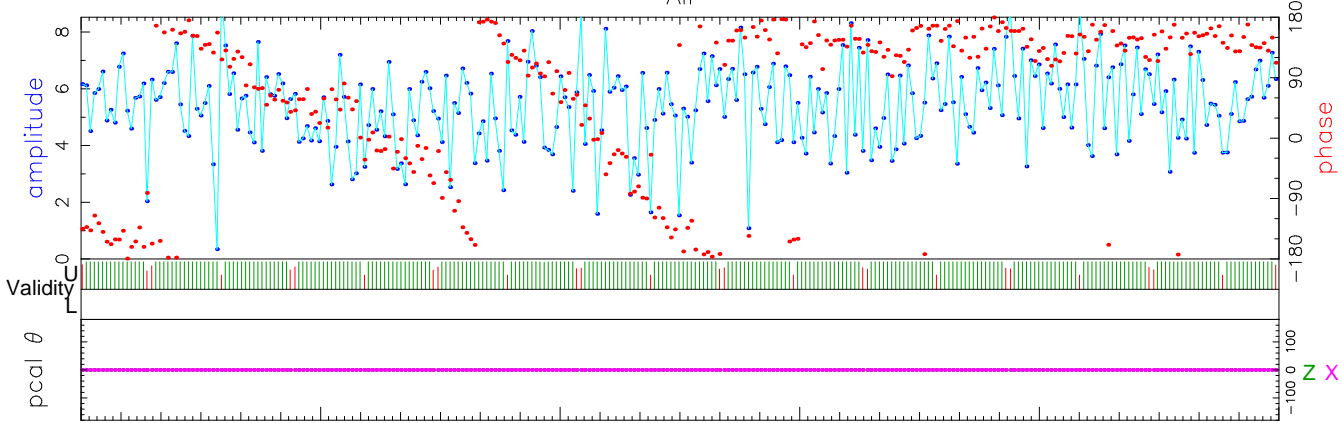
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00

146.4

2.8

510.9

U/L 586/0

Z 0

X 0

Z:X 0:0

Z:X 0:0

Z 1000

X 1000

Z W06UL

X W06UL

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC phase

Manl PC

PC amp

Chan ids

Chan ids

Group delay (usec)(sbd)	-2.30387386206E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	6.54646E-08	+/-	5.2E-04
Sband delay (usec)	-2.30387386259E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	-1.60670E-02	+/-	5.2E-04
Phase delay (usec)	-2.30385779086E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	4.72175E-06	+/-	1.1E-07
Delay rate (us/s)	-2.56650371752E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	3.82713E-08	+/-	6.4E-10
Total phase (deg)	332.3	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	156.6	+/-	3.5

ph/seg (deg)	RMS 72.4	Theor. 29.6	Amplitude 2.842 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	104.0	51.6	Search (2048X8) 2.766	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	1.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	3.0	Inc. seg. avg. 4.791	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 2.840	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

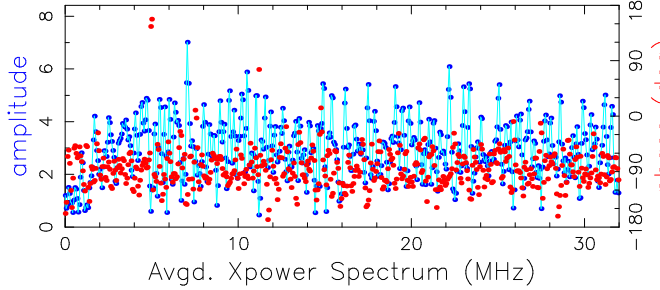
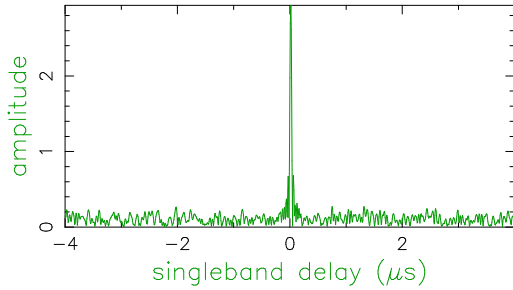
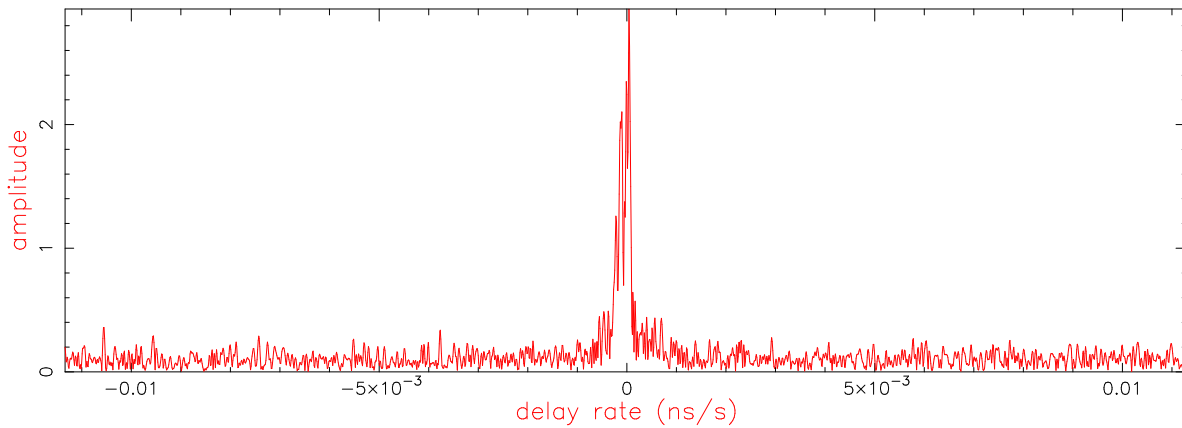
Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007/ZX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007/ZX.W.277.0QR3WR

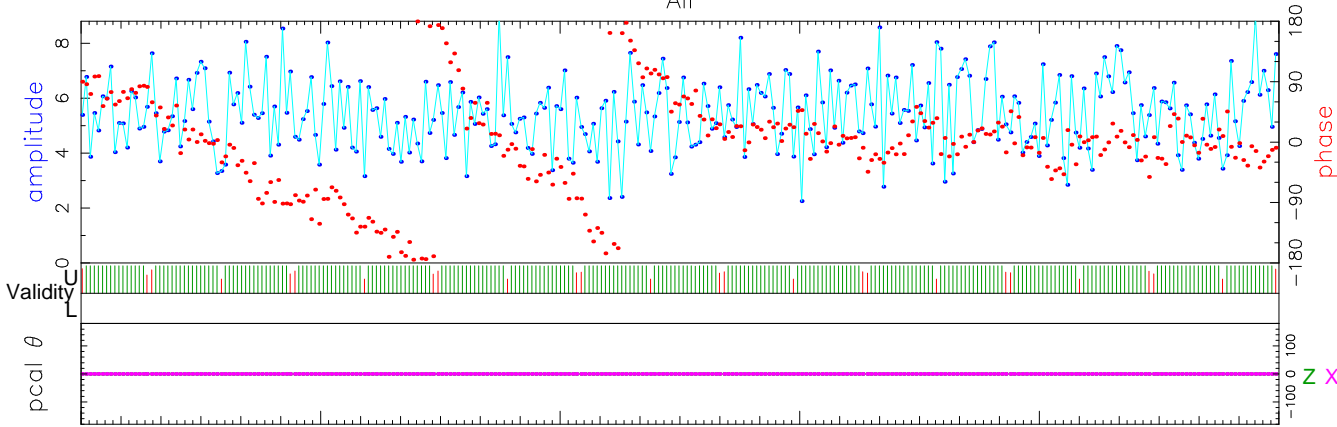
Fringe quality 9

SNR 34.3
Int time 291.770
Amp 2.936
Phase -348.1
PFD 0.0e+00
Delays (us)
SBD 0.015065
MBD -0.000001
Fringe rate (Hz)
0.003480
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-0.9
2.9
514.9
U/L 586/0
Z 0
X 0
Z:X 0:0
Z:X 0:0
Z 1000
X 1000
Z W06UR
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.3038427272E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	-5.93703E-07	+/-	5.0E-04
Sband delay (usec)	-2.30384273009E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	1.50655E-02	+/-	5.0E-04
Phase delay (usec)	-2.30385779562E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	-2.89040E-08	+/-	1.1E-07
Delay rate (us/s)	-2.56650350495E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	4.03970E-08	+/-	6.2E-10
Total phase (deg)	-172.3	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	-348.1	+/-	3.3

ph/seg (deg)	69.7	RMS	28.6	Theor.	28.6	Amplitude	2.936 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	96.6		49.9		49.9	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		1.7		1.7	Inc. seg. avg.	4.858	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0		2.9		2.9	Inc. frq. avg.	2.933	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	ion window (TEC)	0.00	0.00

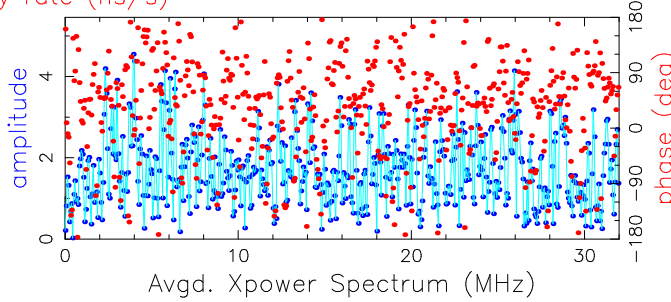
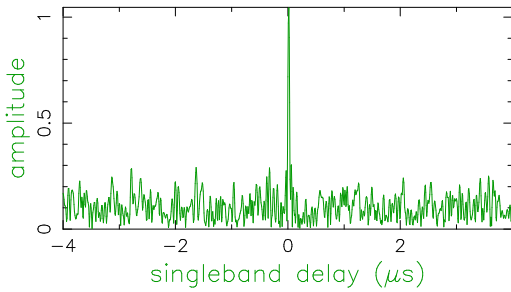
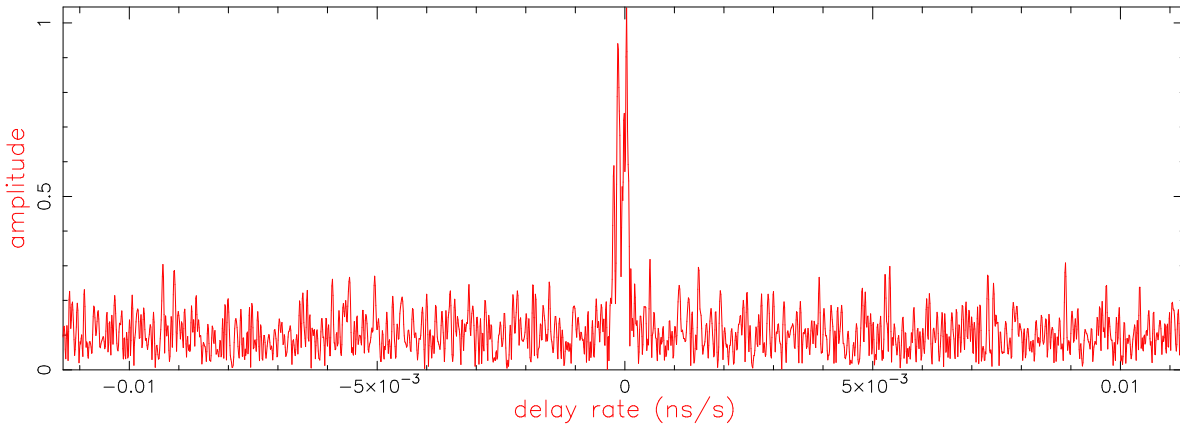
Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZX...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZX.W.287.0QR3WR

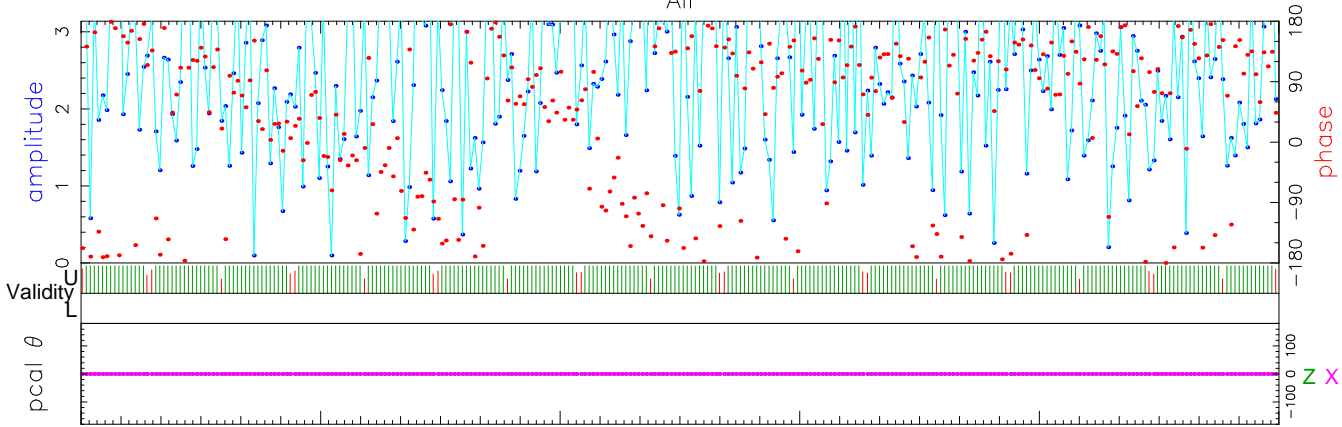
Fringe quality 9

SNR 12.2
Int time 291.770
Amp 1.046
Phase -197.1
PFD 6.6e-26
Delays (us)
SBD 0.014337
MBD -0.000002
Fringe rate (Hz)
0.002973
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174221
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
133.3
1.0
514.8
U/L 586/0
Z 0
X 0
Z:X 0:0
Z:X 0:0
Z 1000
X 1000
Z W06UL
X W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.30384345935E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	-1.84674E-06	+/-	1.4E-03
Sband delay (usec)	-2.30384345909E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	1.43365E-02	+/-	1.4E-03
Phase delay (usec)	-2.30385779129E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	4.29716E-06	+/-	3.0E-07
Delay rate (us/s)	-2.56650409355E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	3.45110E-08	+/-	1.7E-09
Total phase (deg)	-21.3	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	-197.1	+/-	9.4

ph/seg (deg)	77.5	Theor.	80.3	Amplitude	1.046 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	176.9	Search (2048X8)	1.041	Search	1.041	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	1.271	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.3	Inc. frq. avg.	1.040	Inc. frq. avg.	1.040	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

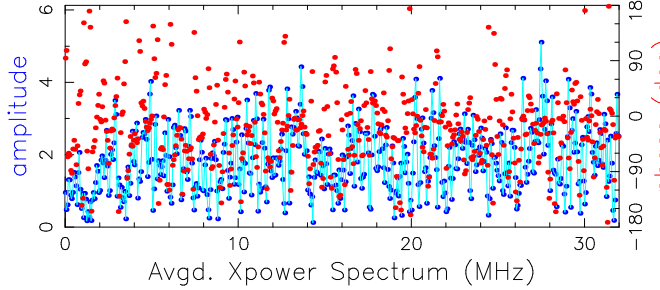
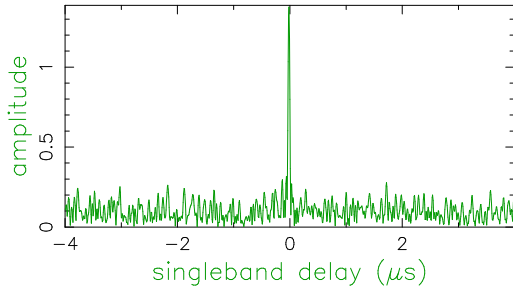
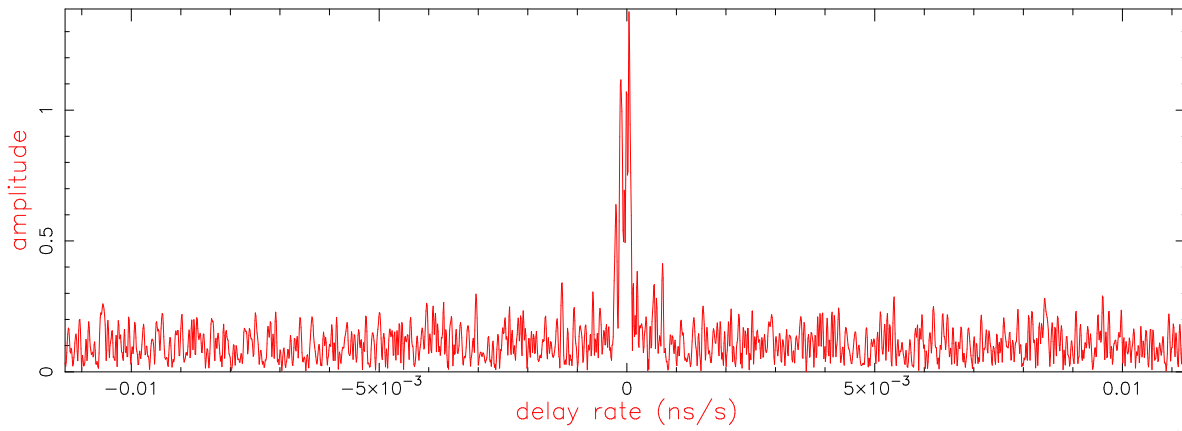
Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZX.W.296.0QR3WR

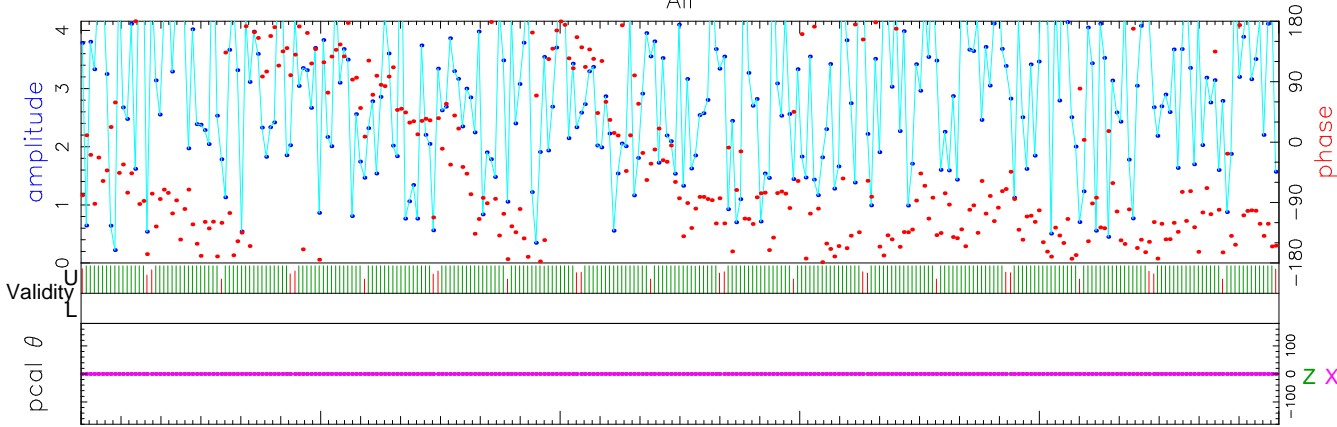
Fringe quality 9

SNR 16.2
Int time 291.770
Amp 1.386
Phase 286.7
PFD 0.0e+00
Delays (us)
SBD -0.017925
MBD -0.000000
Fringe rate (Hz)
0.003337
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174222
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
-126.3
1.4
510.7
U/L 586/0
Z 0
X 0
Z:X 0:0
Z:X 0:0
Z 1000
X 1000
Z W06UR
X W06UL

Freq (MHz)
Phase
Amp.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.30387571833E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	-1.44351E-07	+/-	1.1E-03
Sband delay (usec)	-2.30387572059E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	-1.79250E-02	+/-	1.1E-03
Phase delay (usec)	-2.30385779966E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	-4.07235E-06	+/-	2.3E-07
Delay rate (us/s)	-2.56650367069E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	3.87397E-08	+/-	1.3E-09
Total phase (deg)	102.4	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	286.7	+/-	7.1

ph/seg (deg)	78.4	Theor.	60.6	Amplitude	1.386 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	147.2	Search (2048X8)	1.336	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0	Inc. seg. avg.	1.882	Inc. frq. avg.	1.372	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.8	Inc. frq. avg.	1.372			Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
						Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

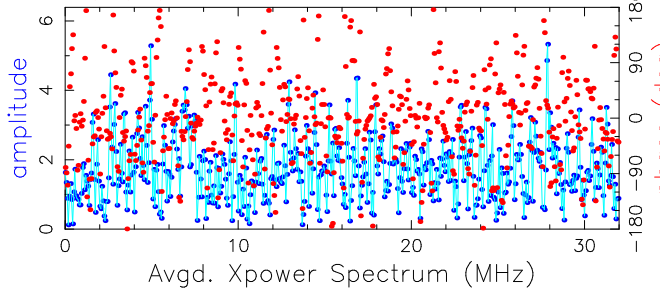
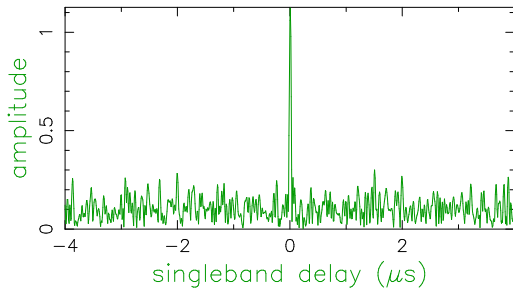
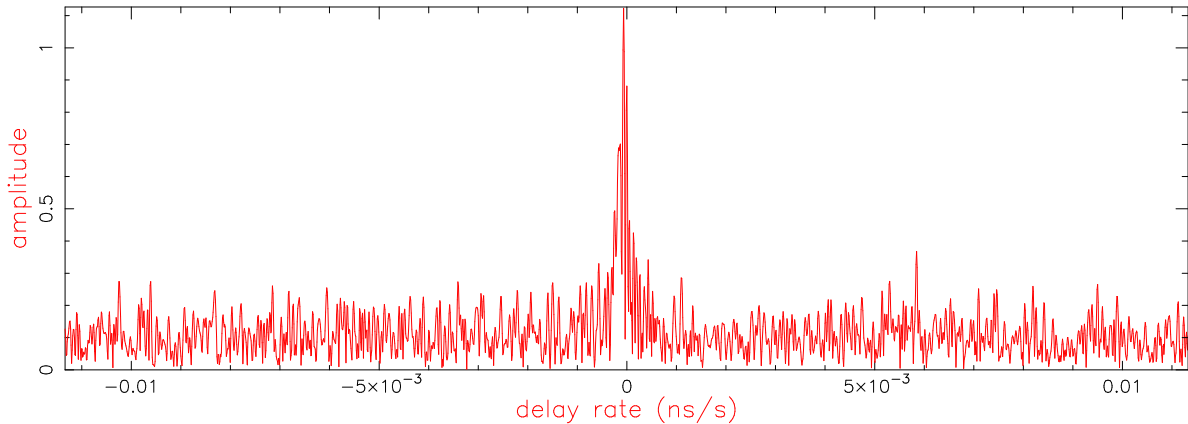
Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZX..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZX.W.304.0QR3WR

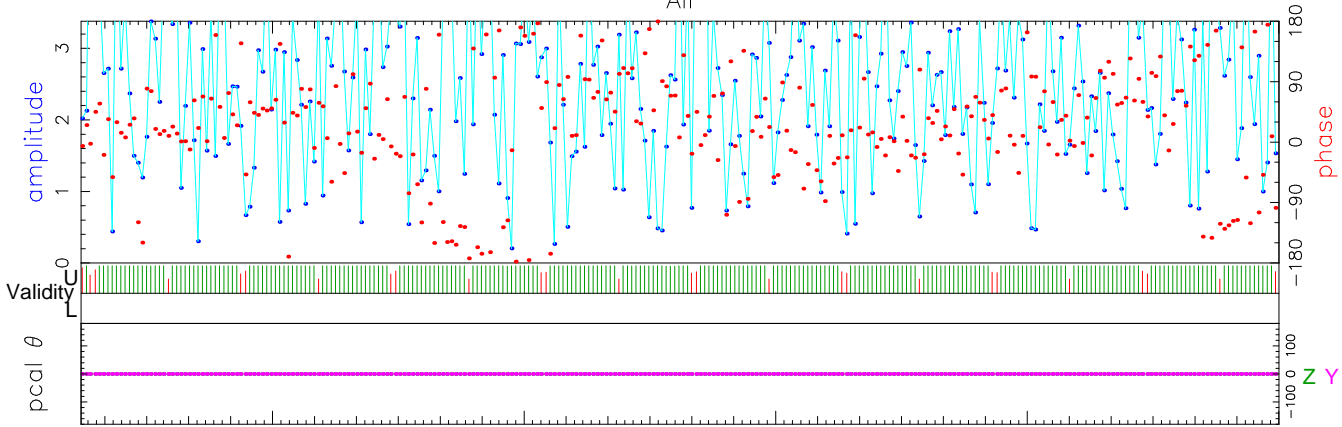
Fringe quality 9

SNR 12.8
 Int time 277.292
 Amp 1.127
 Phase -108.2
 PFD 3.1e-29
 Delays (us)
 SBD 0.006231
 MBD -0.000007
 Fringe rate (Hz)
 -0.006104
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174218
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 35.6
 1.1
 513.8
 U/L 558/0
 Z 0
 Y 0
 Z:Y 0:0
 Z:Y 0:0
 Z 1000
 Y 1000
 Z W06UL
 Y W06UL

Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC phase
 Manl PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	-6.72549236865E+03	Apriori delay (usec)	-6.72549860299E+03	Resid mbdelay (usec)	-6.67561E-06	+/-	1.3E-03
Sband delay (usec)	-6.72549237249E+03	Apriori clock (usec)	-6.8747673E+00	Resid sbdelay (usec)	6.23050E-03	+/-	1.3E-03
Phase delay (usec)	-6.72549860184E+03	Apriori clockrate (us/s)	3.5699999E-07	Resid phdelay (usec)	1.14641E-06	+/-	2.9E-07
Delay rate (us/s)	4.49835467340E-02	Apriori rate (us/s)	4.49836175961E-02	Resid rate (us/s)	-7.08621E-08	+/-	1.7E-09
Total phase (deg)	-346.4	Apriori accel (us/s/s)	4.26216030664E-05	Resid phase (deg)	-108.2	+/-	8.9

ph/seg (deg)	RMS 77.8	Theor. 74.6	Amplitude	1.127 +/- 0.088	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	161.7	130.2	Search (2048X8)	1.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	0.0	4.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.4	7.8	Inc. seg. avg.	1.353	Sample rate(MSamp/s): 64	ion window (TEC)	0.00 0.00	
			Inc. frq. avg.	1.119	Data rate(Mb/s): 128	nlags: 512	t_cohere infinite	

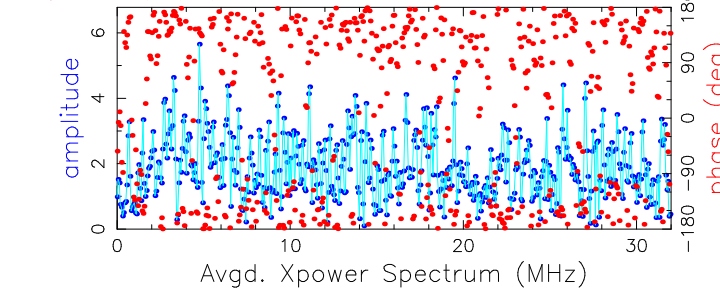
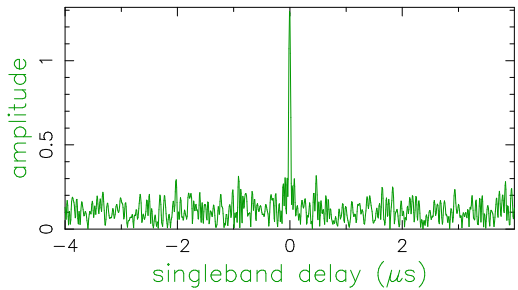
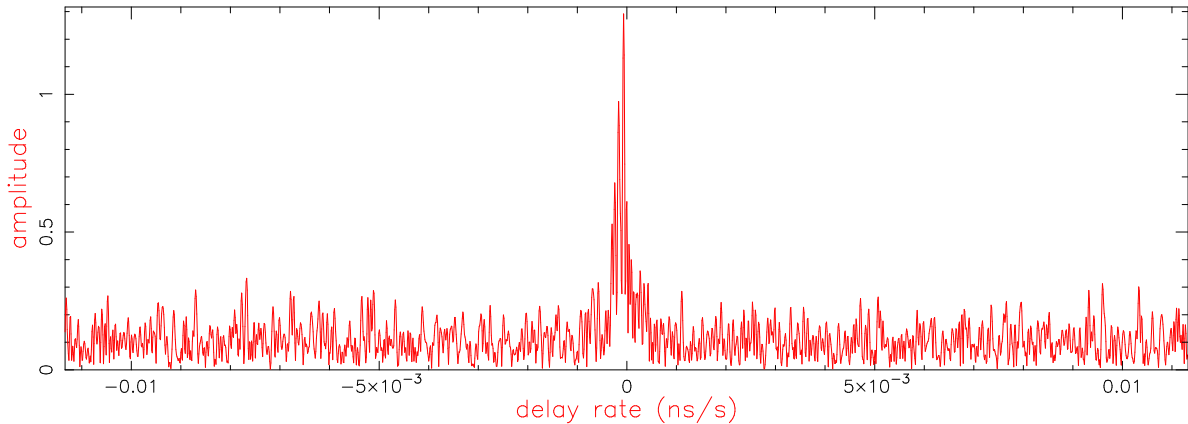
Z: az 257.8 el 25.5 pa 30.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -213.535 2835.037 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZY.W.276.0QR3WR

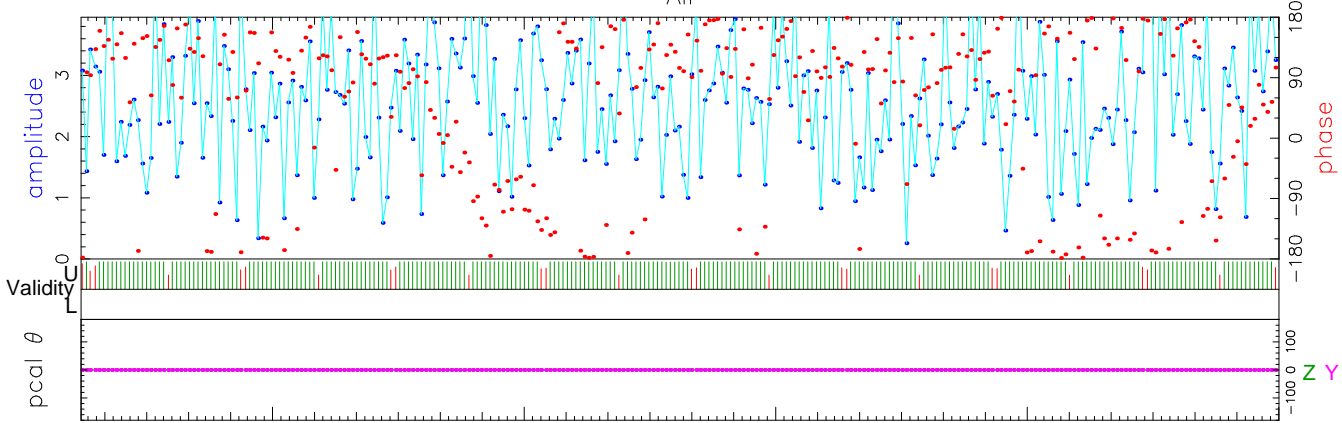
Fringe quality 9

SNR 15.0
Int time 277.292
Amp 1.317
Phase 235.2
PFD 2.5e-42
Delays (us)
SBD -0.004250
MBD -0.000005
Fringe rate (Hz)
-0.005918
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174219
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
137.4
1.3
512.5
U/L 558/0
Z 0
Y 0
Z:Y 0:0
Z:Y 0:0
Z 1000
Y 1000
Z W06UR
Y W06UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.72550285416E+03	Apriori delay (usec)	-6.72549860299E+03	Resid mbdelay (usec)	-5.43204E-06	+/-	1.1E-03
Sband delay (usec)	-6.72550285349E+03	Apriori clock (usec)	-6.8747673E+00	Resid sbdelay (usec)	-4.25050E-03	+/-	1.1E-03
Phase delay (usec)	-6.72549859856E+03	Apriori clockrate (us/s)	3.5699999E-07	Resid phdelay (usec)	4.43100E-06	+/-	2.5E-07
Delay rate (us/s)	4.49835488958E-02	Apriori rate (us/s)	4.49836175961E-02	Resid rate (us/s)	-6.87003E-08	+/-	1.5E-09
Total phase (deg)	-2.9	Apriori accel (us/s/s)	4.26216030664E-05	Resid phase (deg)	235.2	+/-	7.6

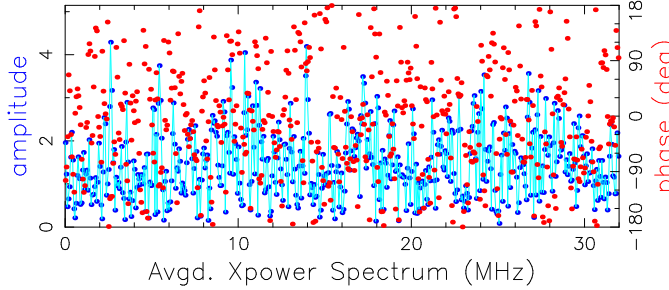
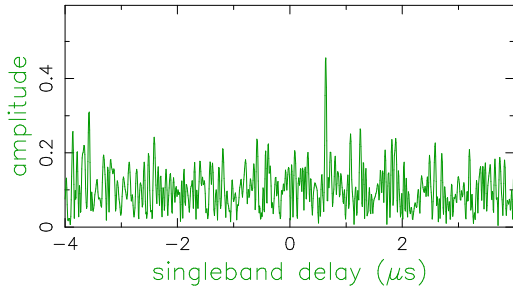
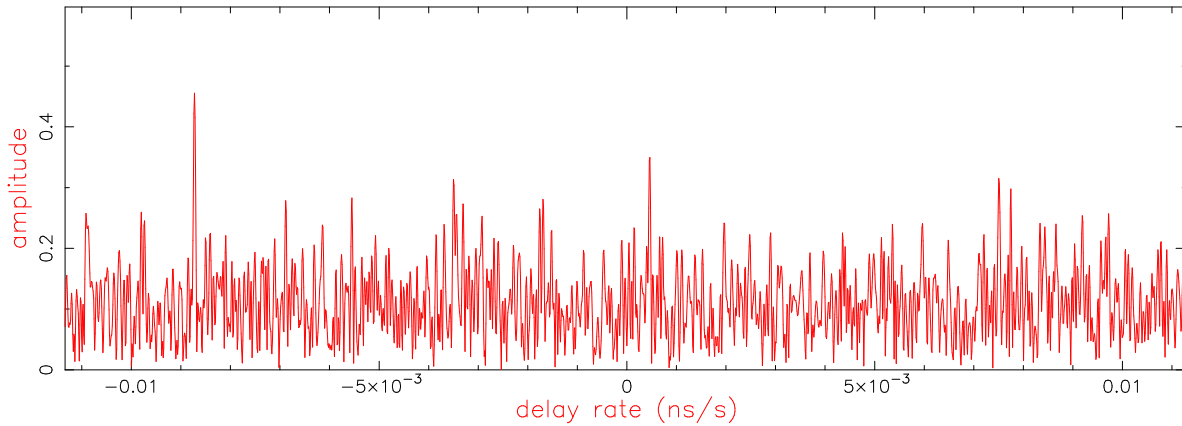
ph/seg (deg)	70.7	Theor.	63.8	Amplitude	1.317 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	128.9	Search (2048X8)	1.285	Search	1.285	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	1.618	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.9	Inc. frq. avg.	1.289	Inc. frq. avg.	1.289	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

Z: az 257.8 el 25.5 pa 30.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -213.535 2835.037 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZY.W.286.0QR3WR

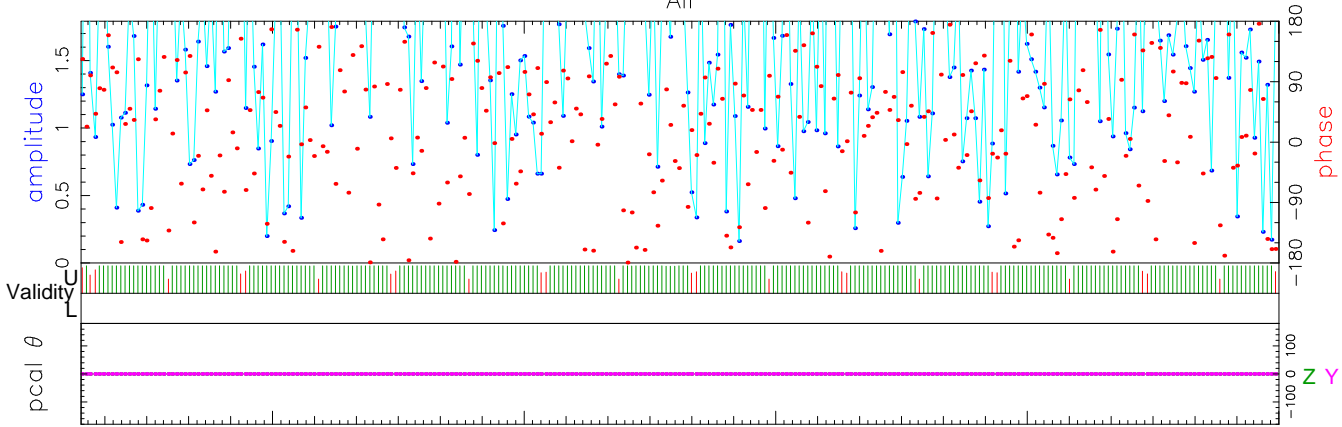
Fringe quality 0

SNR 5.3
Int time 277.292
Amp 0.597
Phase -238.2
PFD 1.0e+00
Delays (us)
SBD 0.637631
MBD -0.000004
Fringe rate (Hz)
-0.751366
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174221
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
53.0
0.6
594.6
U/L 558/0
Z 0
Y 0
Z:Y 0:0
Z:Y 0:0
Z 1000
Y 1000
Z W06UL
Y W06UR

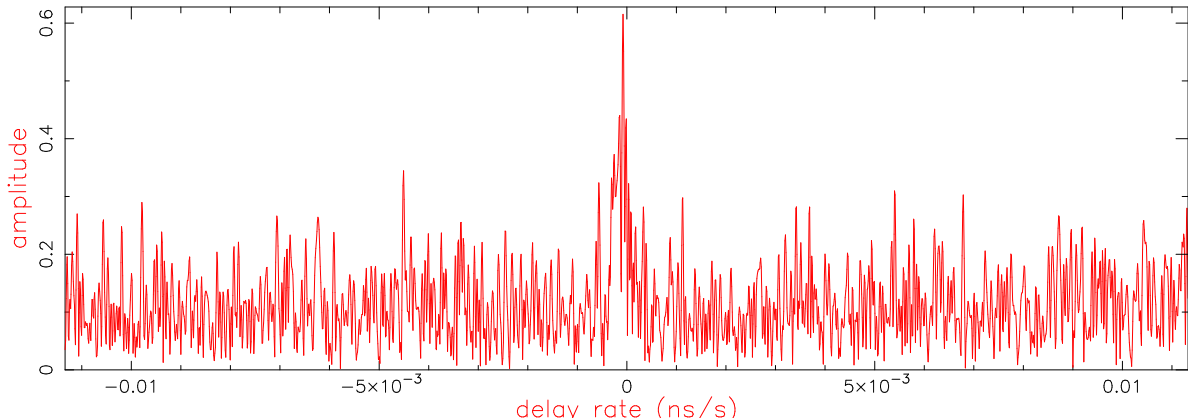
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.72486096874E+03	Apriori delay (usec)	-6.72549860299E+03	Resid mbdelay (usec)	-4.37228E-06	+/-	3.3E-03
Sband delay (usec)	-6.72486097149E+03	Apriori clock (usec)	-6.8747673E+00	Resid sbdelay (usec)	6.37631E-01	+/-	3.3E-03
Phase delay (usec)	-6.72549860128E+03	Apriori clockrate (us/s)	3.5699999E-07	Resid phdelay (usec)	1.70992E-06	+/-	7.0E-07
Delay rate (us/s)	4.49748949797E-02	Apriori rate (us/s)	4.49836175961E-02	Resid rate (us/s)	-8.72262E-06	+/-	4.3E-09
Total phase (deg)	-116.3	Apriori accel (us/s/s)	4.26216030664E-05	Resid phase (deg)	-238.2	+/-	21.8

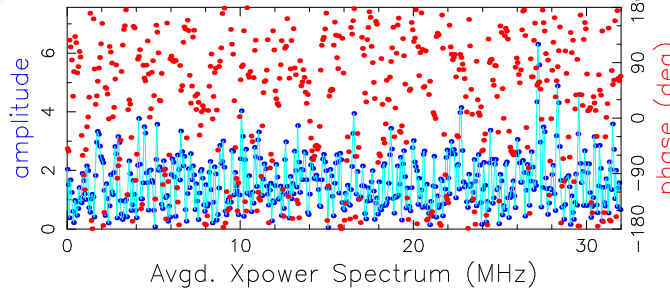
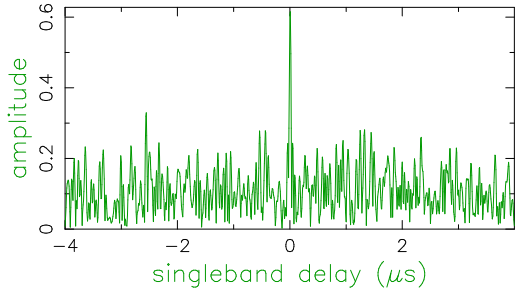
ph/seg (deg)	91.3	Theor.	181.9	Amplitude	0.597 +/- 0.114	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	368.0	Search (2048X8)	0.453	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.395	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	1.5	Inc. frq. avg.	0.578	Inc. frq. avg.	0.578	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

Z: az 257.8 el 25.5 pa 30.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -213.535 2835.037 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZY.W.299.0QR3WR

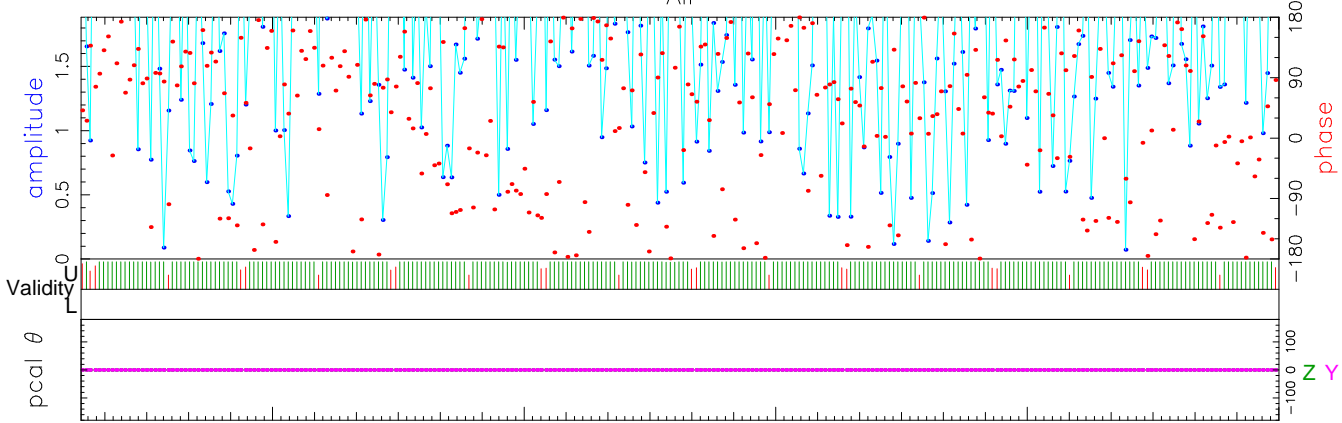


Fringe quality 0
SNR 7.1
Int time 277.292
Amp 0.628
Phase 14.9
PFD 1.3e-04
Delays (us)
SBD 0.004437
MBD -0.000007
Fringe rate (Hz)
-0.006249
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174222
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 279 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



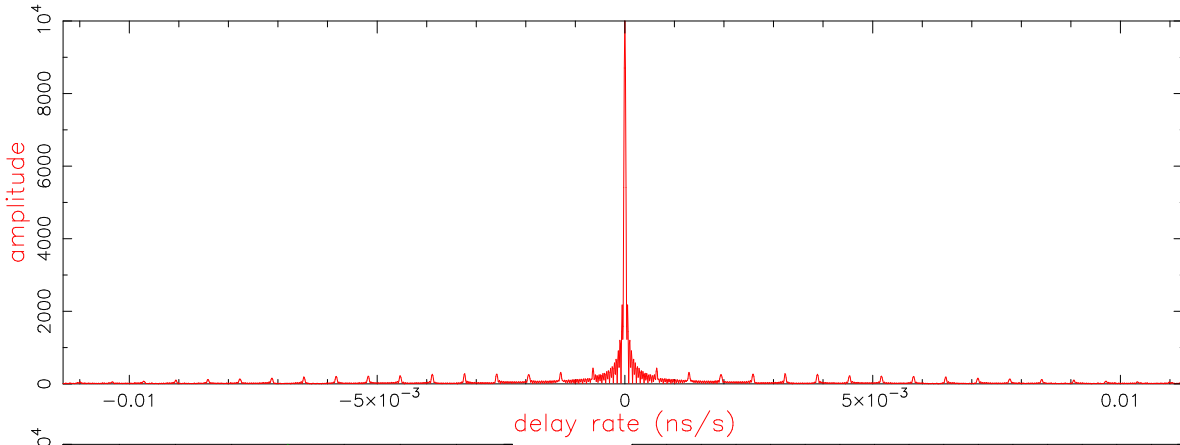
86204.00
117.3
0.6
513.6
U/L 558/0
Z 0
Y 0
Z:Y 0:0
Z:Y 0:0
Z 1000
Y 1000
Z W06UR
Y W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-6.72549416708E+03	Apriori delay (usec)	-6.72549860299E+03	Resid mbdelay (usec)	-7.04520E-06	+/-	2.4E-03
Sband delay (usec)	-6.72549416599E+03	Apriori clock (usec)	-6.8747673E+00	Resid sbdelay (usec)	4.43700E-03	+/-	2.4E-03
Phase delay (usec)	-6.72549859921E+03	Apriori clockrate (us/s)	3.5699999E-07	Resid phdelay (usec)	3.78099E-06	+/-	5.2E-07
Delay rate (us/s)	4.49835450554E-02	Apriori rate (us/s)	4.49836175961E-02	Resid rate (us/s)	-7.25407E-08	+/-	3.1E-09
Total phase (deg)	-223.2	Apriori accel (us/s/s)	4.26216030664E-05	Resid phase (deg)	14.9	+/-	16.0

ph/seg (deg)	86.2	Theor.	133.9	Amplitude	0.628 +/- 0.088	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	286.9	Search (2048X8)	0.603	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	0.552	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000
amp/frq (%)	2.0	Inc. frq. avg.	0.609	Inc. frq. avg.	0.609	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		

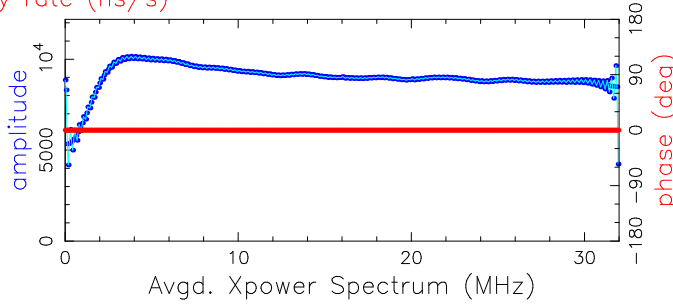
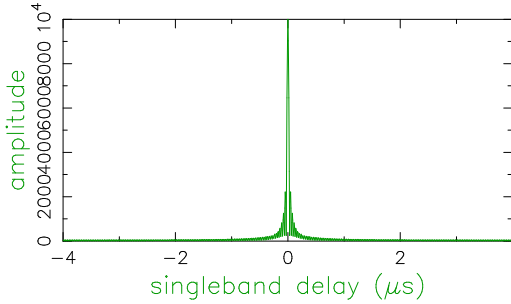
Z: az 257.8 el 25.5 pa 30.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -213.535 2835.037 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZY..0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZY.W.306.0QR3WR



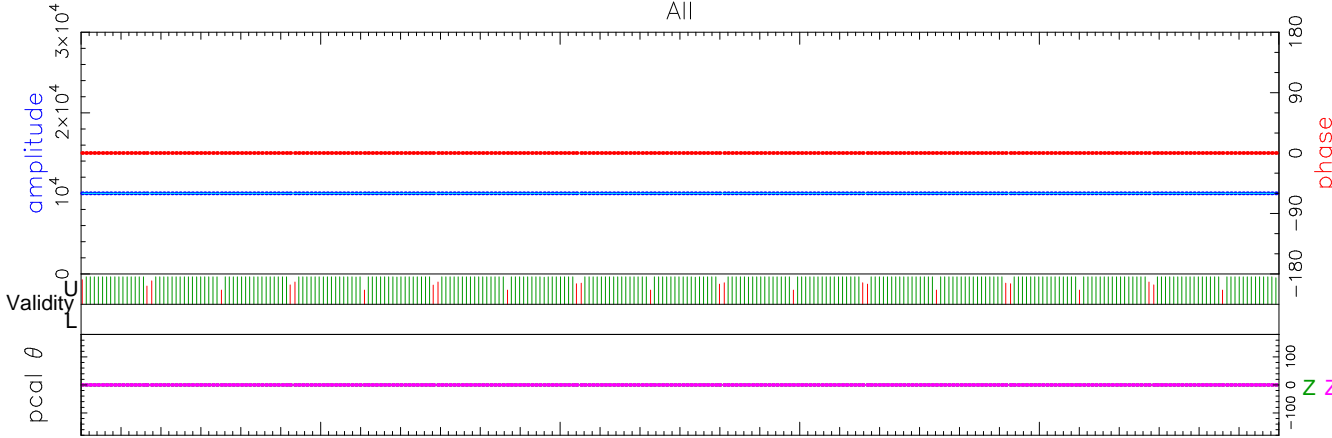
Fringe quality 9

SNR 116796.0
Int time 291.864
Amp 10000.000
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174220
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



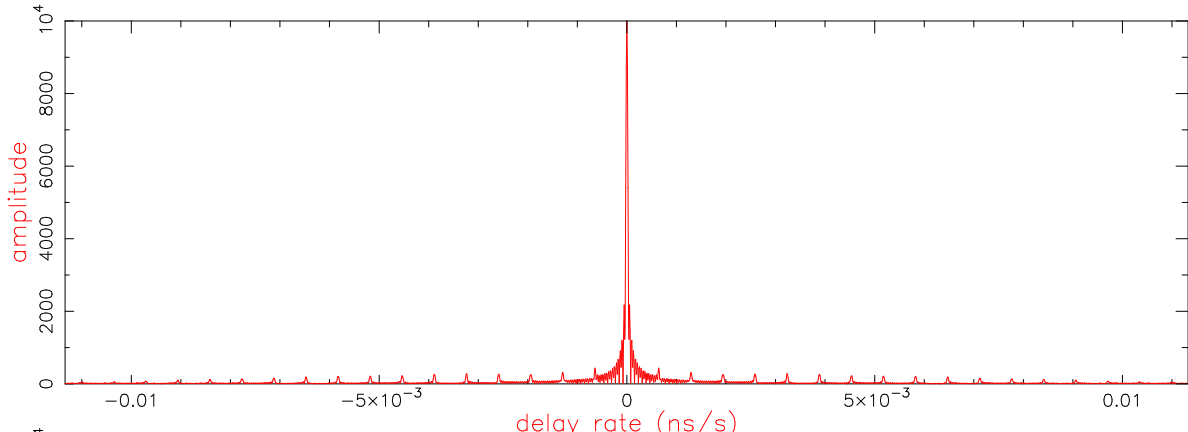
86204.00	Freq (MHz)
0.2	Phase
10000.0	Ampl.
513.0	Sbd box
U/L 586/0	APs used
Z 0	PC freqs
Z 0	PC freqs
Z:Z 0:0	PC phase
Z:Z 0:0	Mani PC
Z 1000	PC amp
Z 1000	
Z W06UL	Chan ids
Z W06UL	Chan ids

Group delay (usec)(sbd)	4.57528652963E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.02510E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.52435871230E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.52436E-09	+/-	3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	0.0	Amplitude	10000.000 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	Search (2048X8)	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000	
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000	0.000
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011	0.011	
			Inc. frq. avg.	10000.000	Data rate(Mb/s):	128	nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

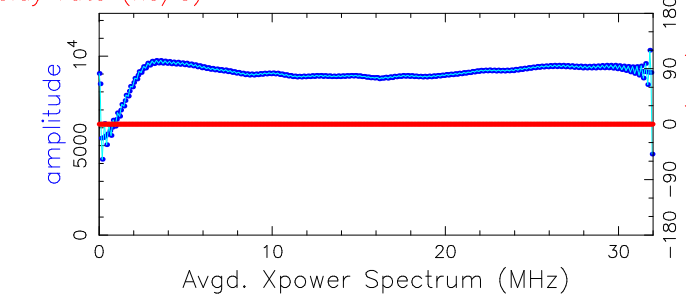
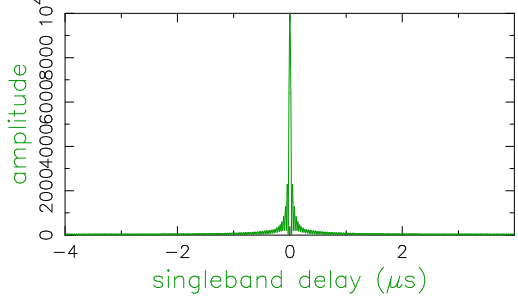
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZZ...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZZ.W.288.0QR3WR



Fringe quality 9

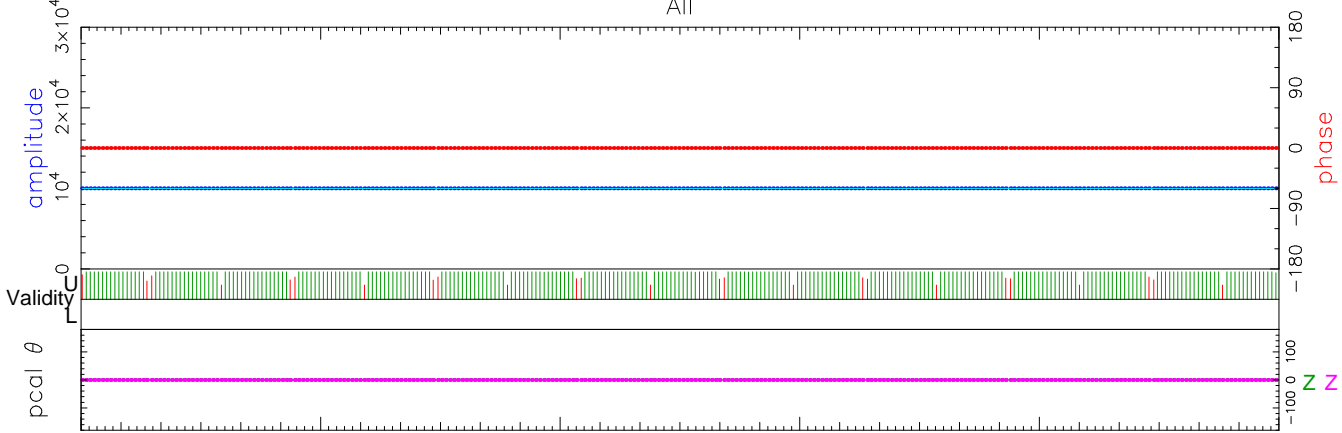
SNR 116796.0
 Int time 291.864
 Amp 10000.000
 Phase -0.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD -0.000007
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174221
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86204.00
 0.2
 10000.0
 513.0
 U/L 586/0
 Z 0
 Z 0
 Z:Z 0:0
 Z:Z 0:0
 Z 1000
 Z 1000
 Z W06UR
 Z W06UR

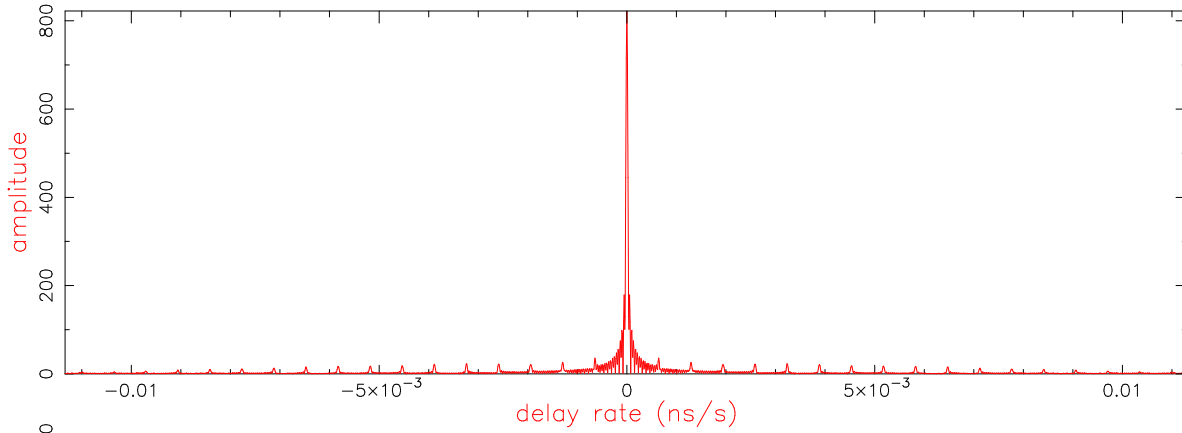
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp

Chan ids
 Chan ids

Group delay (usec)(sbd)	4.70975824788E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.89063E-06	+/-	1.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-07
Phase delay (usec)	6.39947204571E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.39947E-09	+/-	3.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.8E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

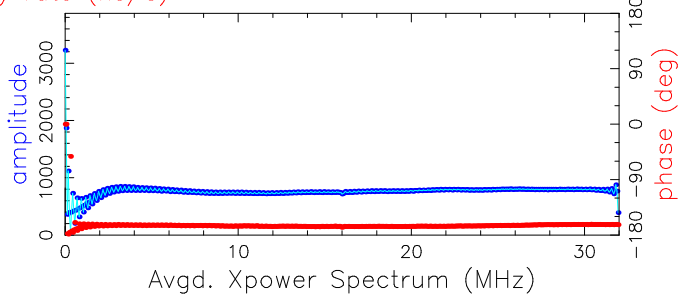
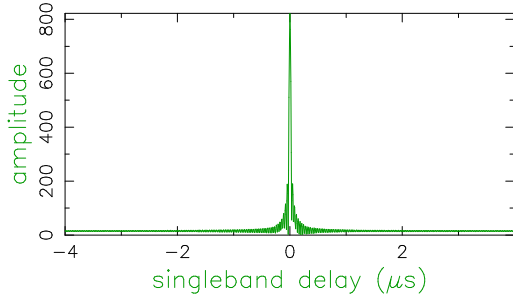
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X8)	10000.000	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Inc. seg. avg.	10000.000	Inc. frq. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	10000.000	Sample rate(MSamp/s):	64	Data rate(Mb/s):	128	nlags:	512
		Z: az 257.8 el 25.5 pa 30.4		Z: az 257.8 el 25.5 pa 30.4		u,v (fr/asec)		0.000 0.000	

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZZ...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZZ.W.297.0QR3WR



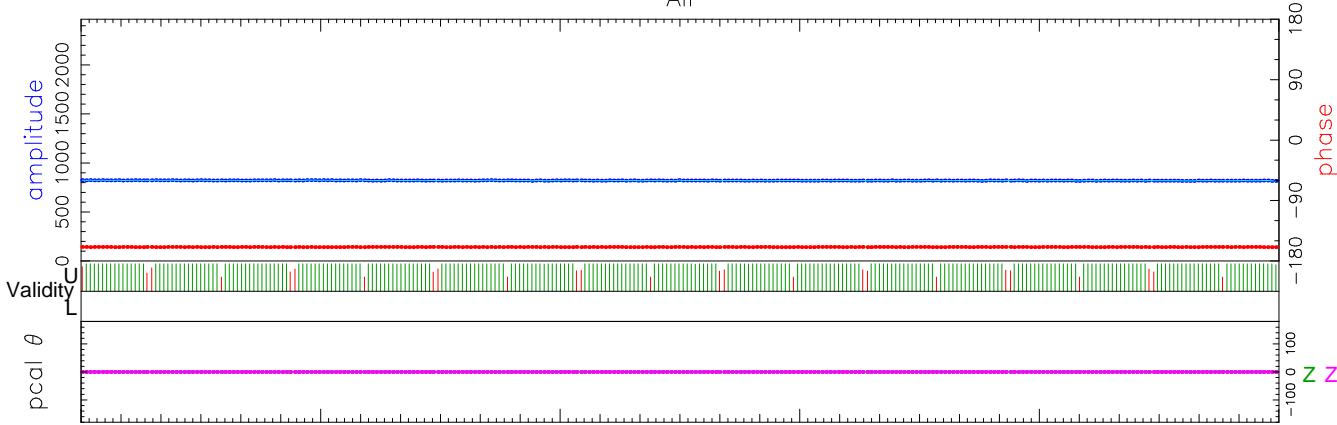
Fringe quality 9

SNR 9604.6
 Int time 291.864
 Amp 822.342
 Phase -180.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000907
 MBD -0.000007
 Fringe rate (Hz)
 0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:093417
 2019:212:174222
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
 All



86204.00
 -159.1
 821.3
 513.1
 U/L 586/0
 Z 0
 Z 0
 Z:Z 0:0
 Z:Z 0:0
 Z 1000
 Z 1000
 Z W06UL
 Z W06UR

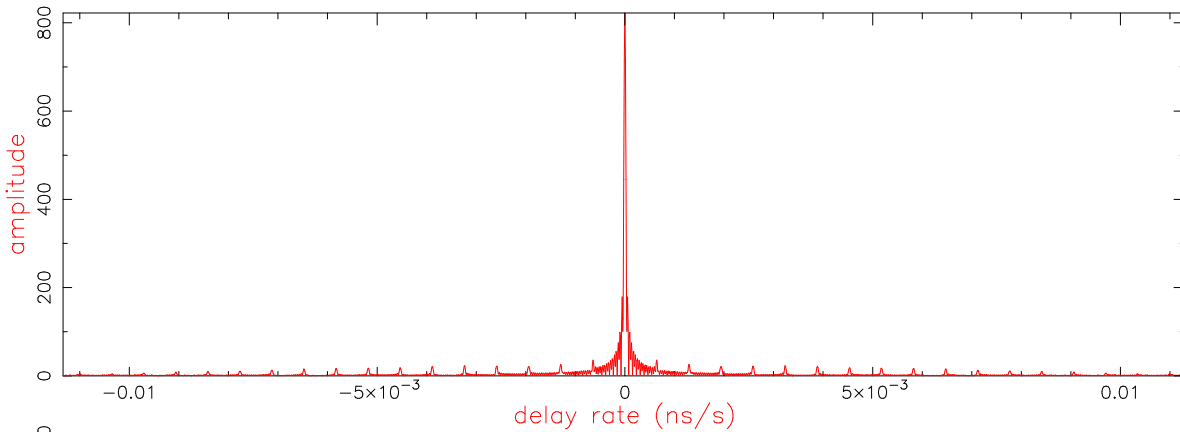
Freq (MHz)
 Phase
 Ampl.
 Sbd box
 APs used
 PC freqs
 PC freqs
 PC phase
 Mani PC
 PC amp
 Chan ids
 Chan ids

Group delay (usec)(sbd)	9.09189039952E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.24175E-06	+/- 1.8E-06
Sband delay (usec)	9.07500000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	9.07500E-04	+/- 1.8E-06
Phase delay (usec)	-5.13208504186E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.13209E-06	+/- 3.8E-10
Delay rate (us/s)	7.08557619584E-12	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	7.08558E-12	+/- 2.2E-12
Total phase (deg)	-180.3	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-180.3	+/- 0.0

ph/seg (deg)	0.1	Theor.	0.1	Amplitude	822.342 +/- 0.086	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	0.2		0.2	Search (2048X8)	821.280	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0		0.0	Inc. seg. avg.	821.280	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.1		0.0	Inc. frq. avg.	821.280	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 128	nlags: 512	t_cohere infinite		

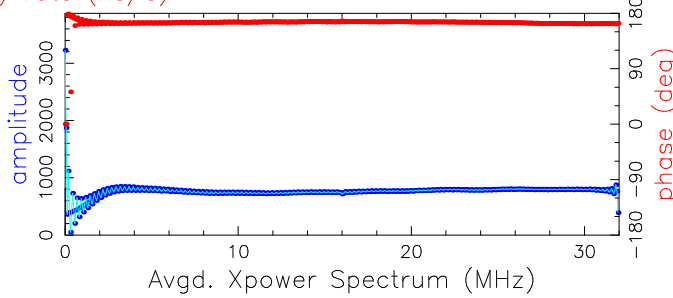
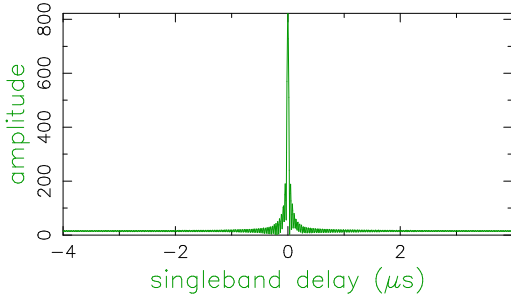
Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZZ...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZZ.W.303.0QR3WR



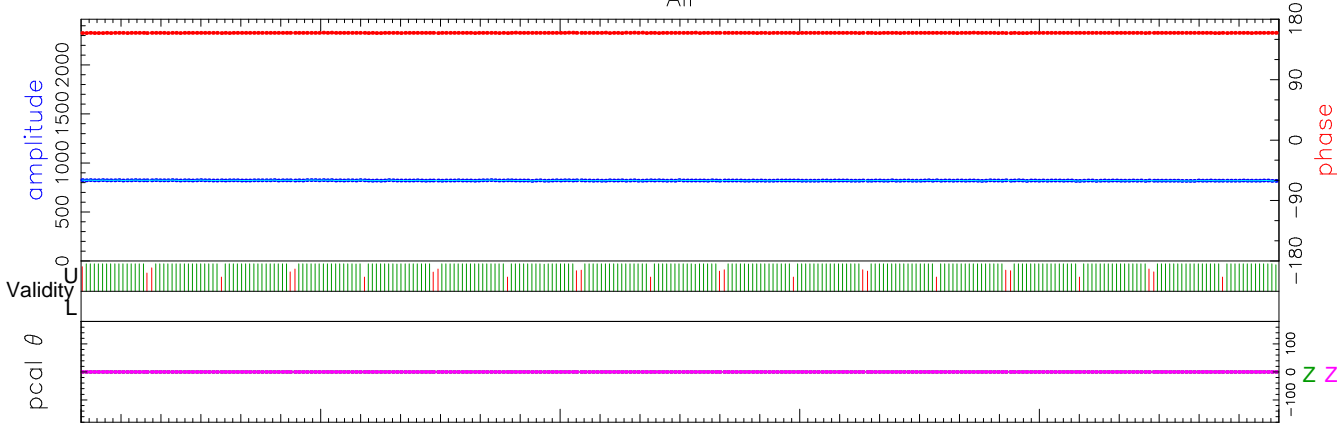
Fringe quality 9

SNR 9604.6
Int time 291.864
Amp 822.342
Phase 180.4
PFD 0.0e+00
Delays (us)
SBD -0.000907
MBD -0.000006
Fringe rate (Hz)
-0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:093417
2019:212:174222
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86204.00
159.5
821.3
512.9
U/L 586/0
Z 0
Z 0
Z:Z 0:0
Z:Z 0:0
Z 1000
Z 1000
Z W06UR
Z W06UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Mani PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.11307410329E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.47701E-06	+/-	1.8E-06
Sband delay (usec)	-9.07500000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-9.07500E-04	+/-	1.8E-06
Phase delay (usec)	5.14482593833E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.14483E-06	+/-	3.8E-10
Delay rate (us/s)	-7.08557619584E-12	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-7.08558E-12	+/-	2.2E-12
Total phase (deg)	180.4	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	180.4	+/-	0.0

ph/seg (deg)	0.1	Theor.	0.1	Amplitude	822.342 +/- 0.086	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	0.2		0.2	Search (2048X8)	821.280	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000				
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000 0.000		
amp/frq (%)	0.1		0.0	Inc. seg. avg.	821.280	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011				
				Inc. frq. avg.	821.280	Data rate(Mb/s):	128	nlags:	512	t_cohere	infinite	ion window (TEC)	0.00 0.00

Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/1234/No0007//ZZ...0QR3WR Output file: /Exps2/f191a/FRINGE/1234/No0007//ZZ.W.308.0QR3WR