

Fringe quality 5

SNR 76024.3

Int time 299.985

Amp 10484.538

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. c211d

Exper # 16383

Yr:day 2021:117

Start 011430.00

Stop 011930.03

FRT 011700.00

Corr/FF/build

2021:228:035953

2021:228:051929

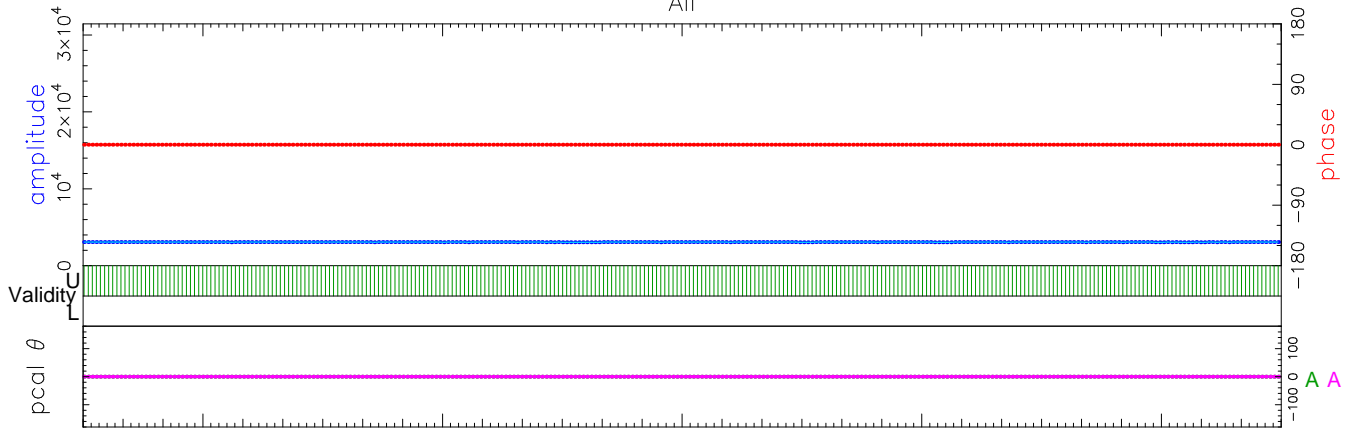
2021:057:122453

RA & Dec (J2000)

09h45m34.287498s

+34°30'42.760780"

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



86227.00

0.2

3071.6

1537.0

U/L 586/0

A 0

A 0

A:A 0:0

A:A 0:0

A 1000

A 1000

A W03UX

A W03UX

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC freqs

PC phase

Manl PC

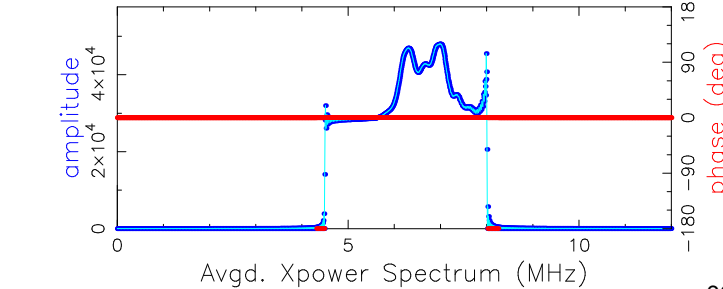
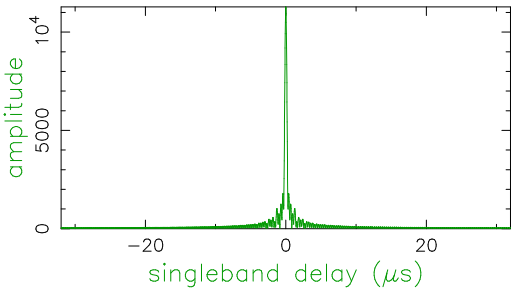
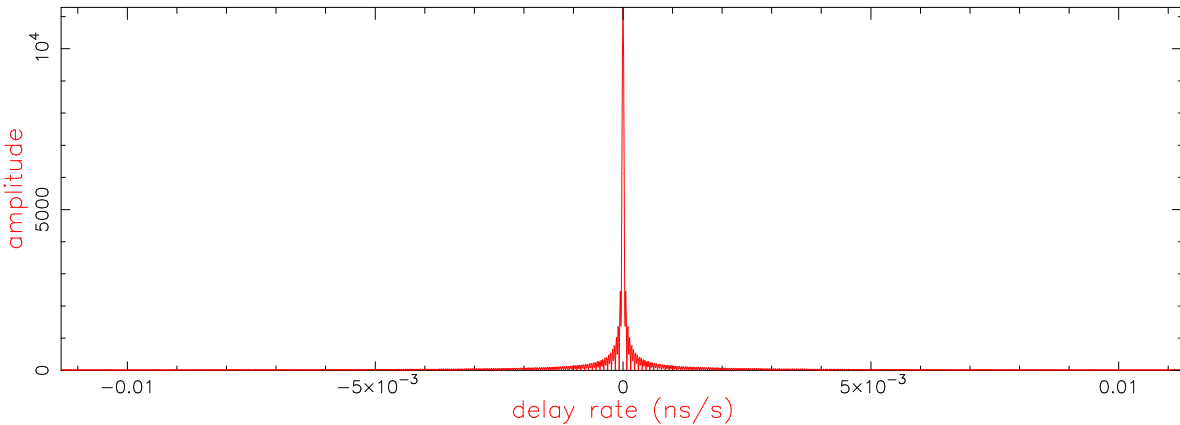
PC amp

Chan ids

Chan ids

Group delay (usec)(sbd)	5.59453535436E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.00276E-06	+/-	6.0E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.0E-07
Phase delay (usec)	6.48080676270E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.48081E-09	+/-	4.9E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.8E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10484.538 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10484.538	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3071.642	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10484.538	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
A: az 341.7 el 29.7 pa 159.5		A: az 341.7 el 29.7 pa 159.5		u, v (fr/asec) 0.000 0.000		simultaneous interpolator	

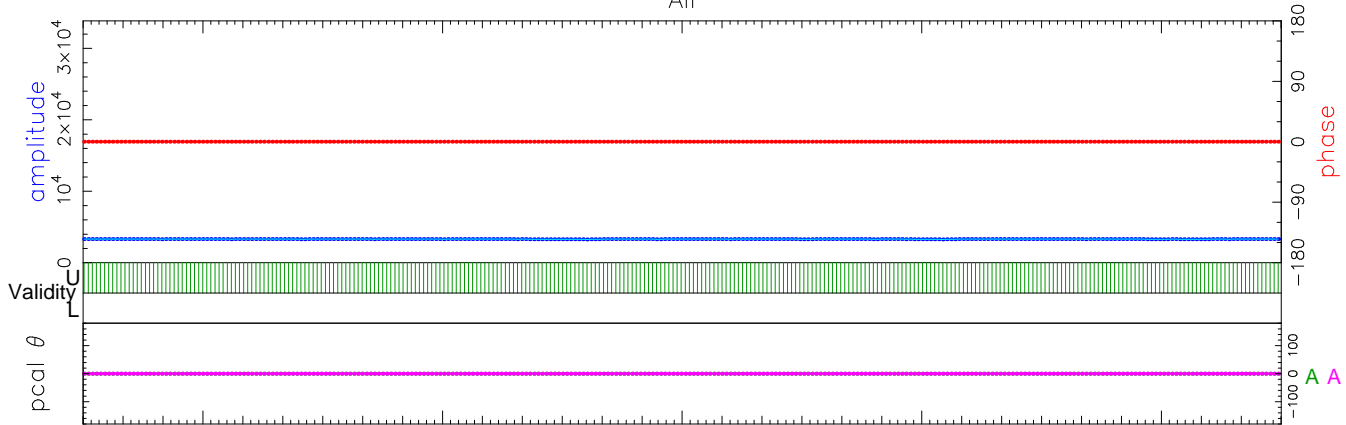


Fringe quality 5

SNR 81834.2
Int time 299.985
Amp 11285.791
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
0.2
3306.4
1537.0
U/L 586/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W03UY
A W03UY

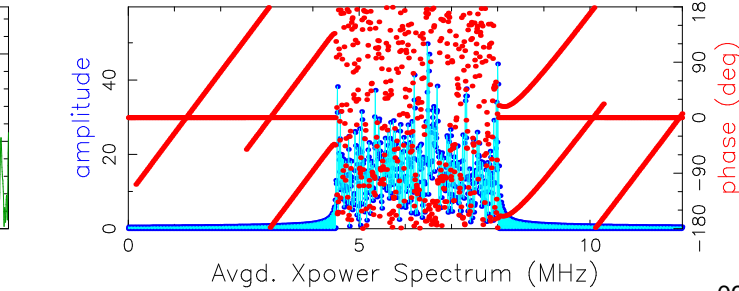
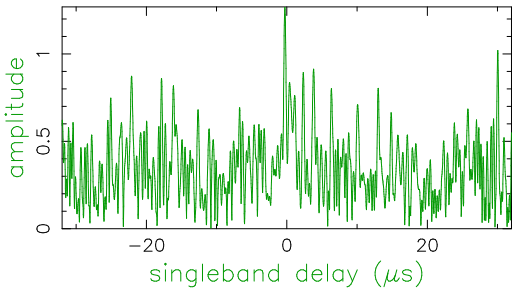
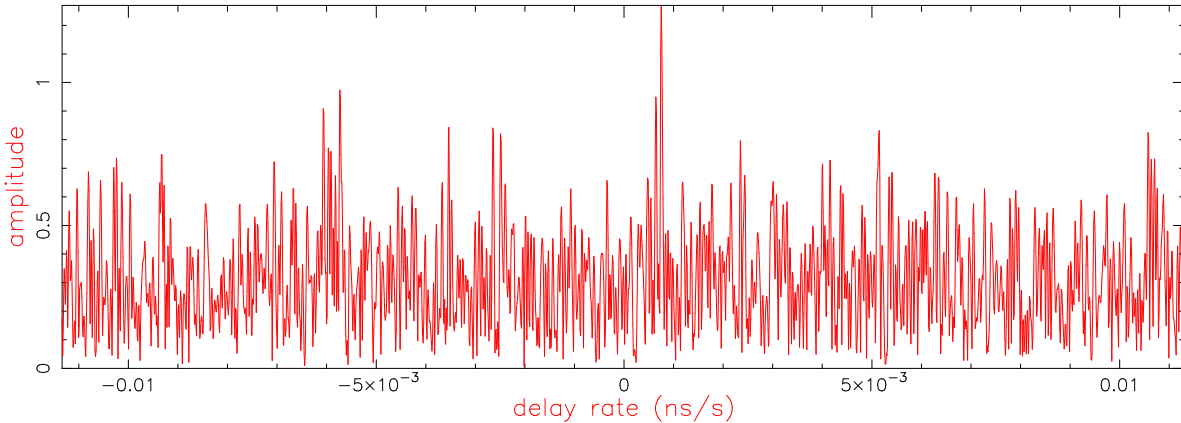
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.70850197734E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/- 5.6E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 5.6E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-09	+/- 4.5E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.6E-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	11285.791 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	11285.791	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3306.384	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	11285.791	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

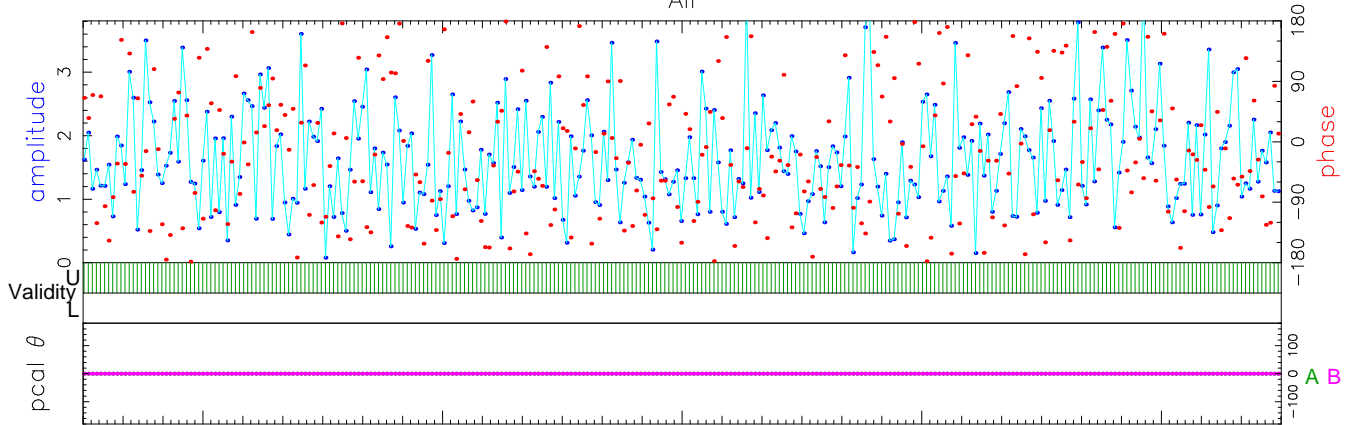
A: az 341.7 el 29.7 pa 159.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/AA..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/AA.W.16.1T5GU7

Fringe quality 8



SNR 9.2
Int time 299.980
Amp 1.270
Phase 41.9
PFD 7.2e-13
Delays (us)
SBD -0.278964
MBD 0.000007
Fringe rate (Hz)
0.064369
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051929
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



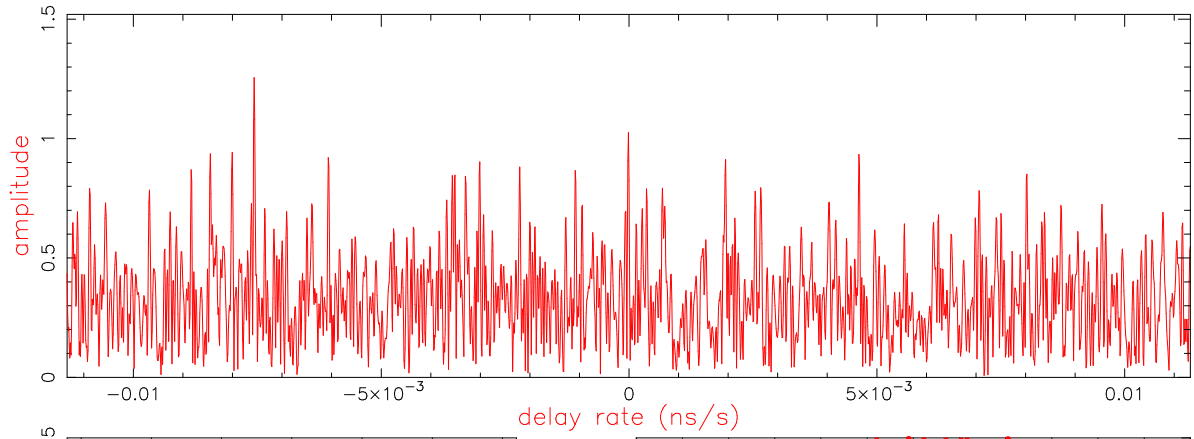
86227.00
-55.6
0.4
1523.6
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UL

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)	1.02645523694E+02	Apriori delay (usec)	1.02924489465E+02	Resid mbdelay (usec)	7.17279E-06	+/-	5.0E-03
Sband delay (usec)	1.02645525465E+02	Apriori clock (usec)	-2.0855354E+03	Resid sbdelay (usec)	-2.78964E-01	+/-	5.0E-03
Phase delay (usec)	1.02924487673E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.79147E-06	+/-	4.0E-07
Delay rate (us/s)	4.08502911832E-01	Apriori rate (us/s)	4.08502164570E-01	Resid rate (us/s)	7.47263E-07	+/-	2.3E-09
Total phase (deg)	230.0	Apriori accel (us/s/s)	-8.56435125841E-05	Resid phase (deg)	41.9	+/-	12.5

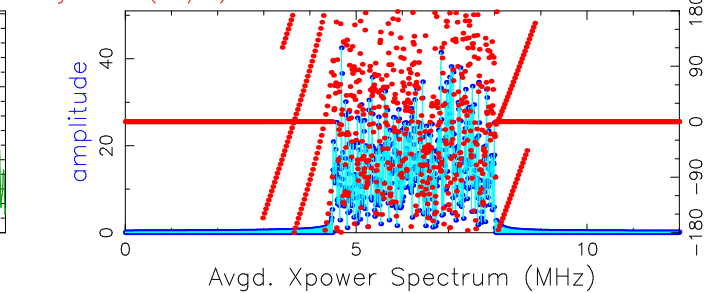
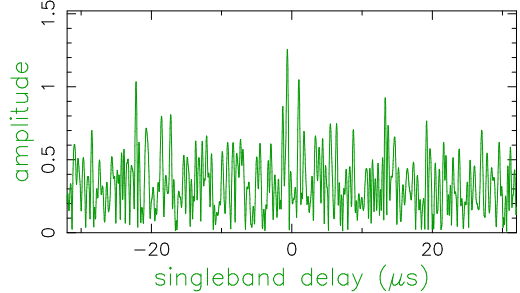
ph/seg (deg)	RMS 92.6	Theor. 106.7	Amplitude Search (2048X8)	1.270 +/- 0.138	1.223	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.2	186.2	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.600	2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.261	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011	
				A: az 341.7 el 29.7 pa 159.5	B: az 296.1 el 23.6 pa 43.8	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	
				u,v (fr/asec) -2924.190 -13075.584	simultaneous interpolator			

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/AB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/AB.W.2.1T5GU7



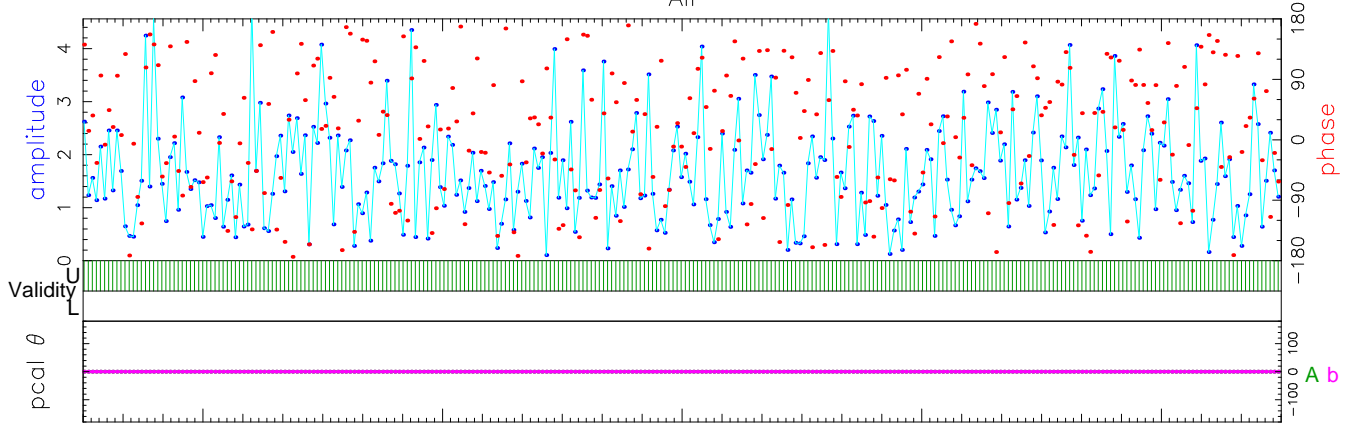
Fringe quality 8

SNR 9.1
Int time 299.958
Amp 1.520
Phase 249.4
PFD 1.4e-12
Delays (us)
SBD -0.638180
MBD -0.000005
Fringe rate (Hz)
-0.651153
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
61.7
0.4
1506.4
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UY
b W03UR

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

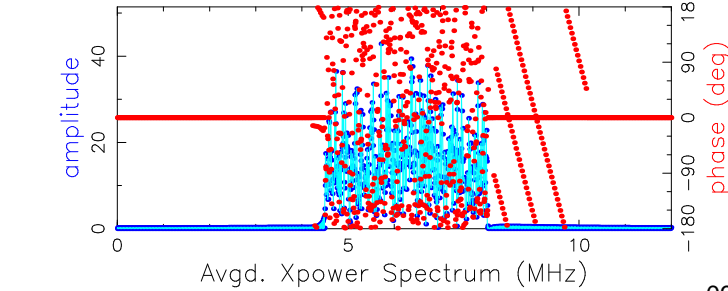
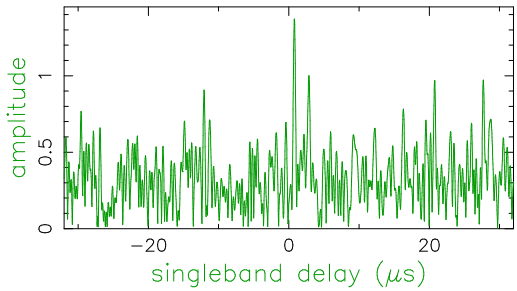
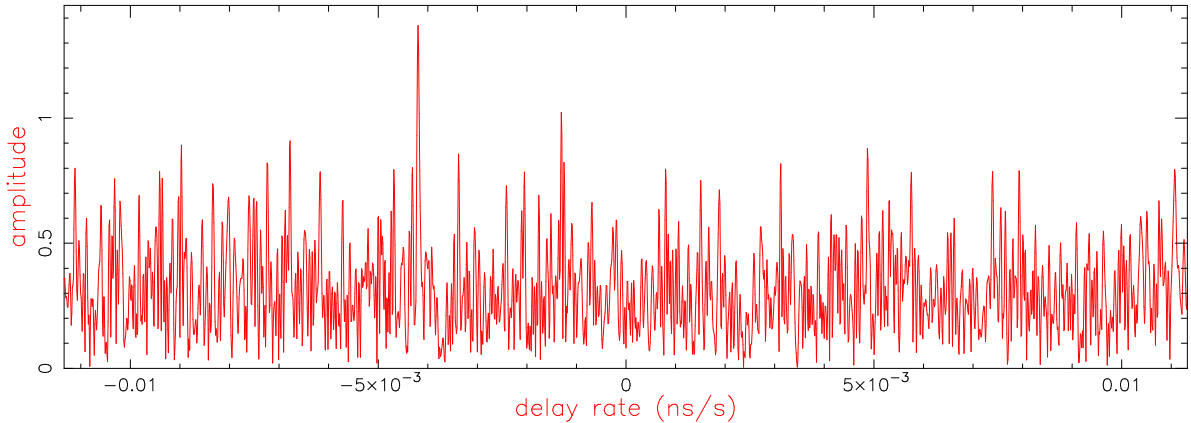
Group delay (usec)(sbd)	-1.04659375134E+04	Apriori delay (usec)	-1.04652993326E+04	Resid mbdelay (usec)	-4.75582E-06	+/- 5.0E-03
Sband delay (usec)	-1.04659375126E+04	Apriori clock (usec)	-2.1046125E+03	Resid sbdelay (usec)	-6.38180E-01	+/- 5.0E-03
Phase delay (usec)	-1.04652993306E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	1.98899E-06	+/- 4.1E-07
Delay rate (us/s)	-8.56250025136E-01	Apriori rate (us/s)	-8.56242465900E-01	Resid rate (us/s)	-7.55924E-06	+/- 2.3E-09
Total phase (deg)	64.5	Apriori accel (us/s/s)	-2.78084046597E-05	Resid phase (deg)	249.4	+/- 12.6

ph/seg (deg)	RMS 93.9	Theor. 107.6	Amplitude Search (2048X8)	1.520 +/- 0.167	1.236	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.5	187.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.732	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.510	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				A: az 341.7 el 29.7 pa 159.5	b: az 107.5 el 62.2 pa -50.8		ion window (TEC) 0.00 0.00

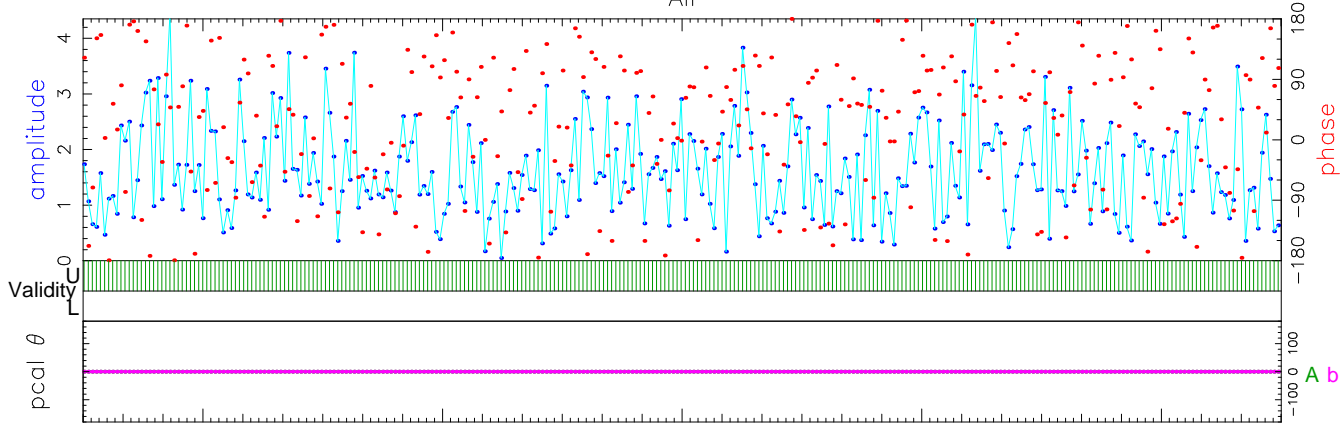
Fringe quality 8

SNR 9.9
Int time 299.958
Amp 1.451
Phase -267.7
PFD 5.7e-16
Delays (us)
SBD 0.792809
MBD -0.000006
Fringe rate (Hz)
-0.360776
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051929
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



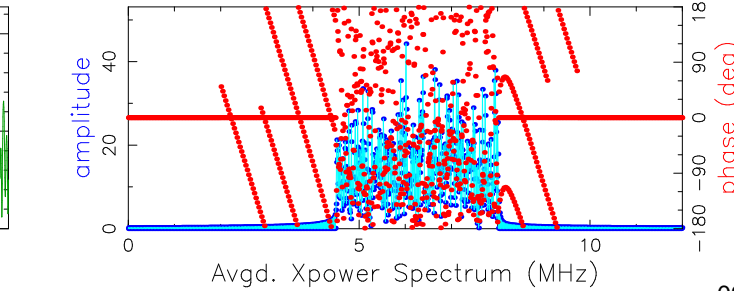
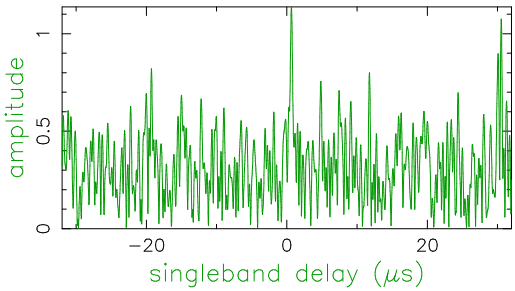
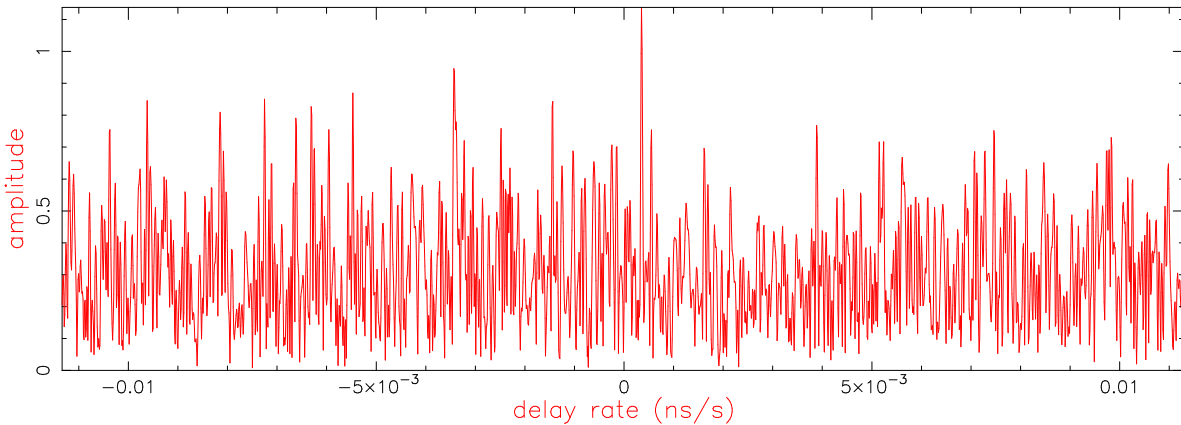
86227.00
83.3
0.4
1575.1
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UL

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)	-1.04645065248E+04	Apriori delay (usec)	-1.04652993326E+04	Resid mbdelay (usec)	-6.44856E-06	+/-	4.6E-03
Sband delay (usec)	-1.04645065233E+04	Apriori clock (usec)	-2.1046125E+03	Resid sbdelay (usec)	7.92809E-01	+/-	4.6E-03
Phase delay (usec)	-1.04652993300E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	2.68600E-06	+/-	3.7E-07
Delay rate (us/s)	-8.56246654151E-01	Apriori rate (us/s)	-8.56242465900E-01	Resid rate (us/s)	-4.18825E-06	+/-	2.1E-09
Total phase (deg)	-92.5	Apriori accel (us/s/s)	-2.78084046597E-05	Resid phase (deg)	-267.7	+/-	11.5

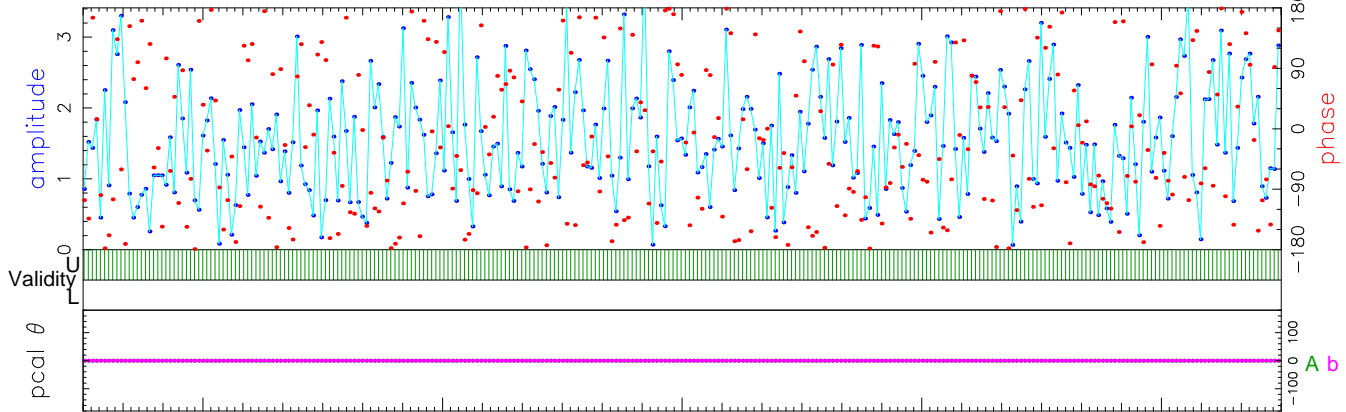
ph/seg (deg)	RMS 90.4	Theor. 98.7	Amplitude Search (2048X8)	1.451 +/- 0.146	1.347	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.9	172.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.8	Inc. seg. avg.	0.700	0.700	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.1	Inc. frq. avg.	1.443	1.443	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 341.7 el 29.7 pa 159.5 b: az 107.5 el 62.2 pa -50.8 u,v (fr/asec) 5923.357 -9816.582 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ab..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ab.W.3.1T5GU7



Fringe quality 8
SNR 8.2
Int time 299.958
Amp 1.138
Phase -95.2
PFD 2.7e-09
Delays (us)
SBD 0.654040
MBD 0.000007
Fringe rate (Hz)
0.030306
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-131.0
0.3
1568.4
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UR

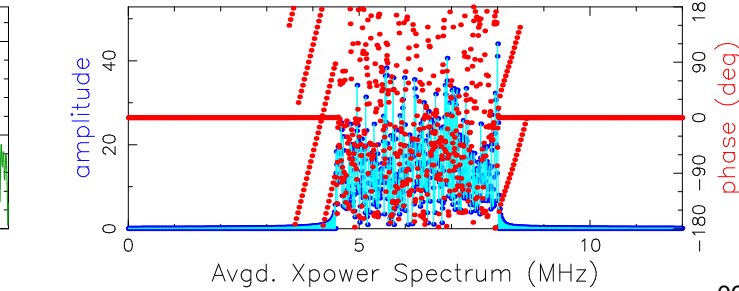
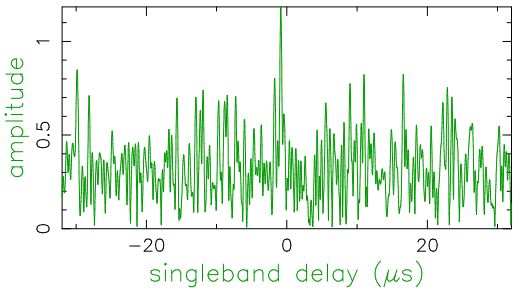
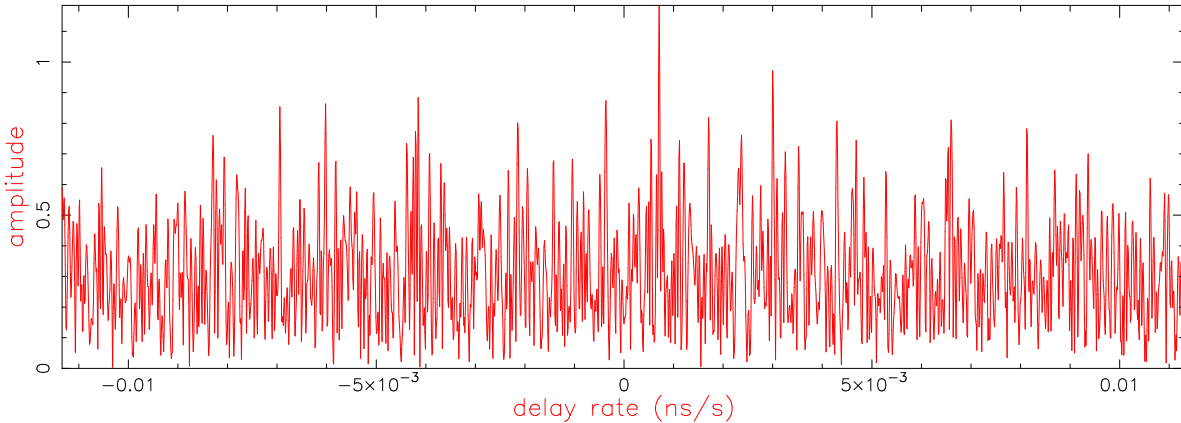
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.04646452963E+04	Apriori delay (usec)	-1.04652993326E+04	Resid mbdelay (usec)	6.85539E-06	+/-	5.6E-03
Sband delay (usec)	-1.04646452926E+04	Apriori clock (usec)	-2.1046125E+03	Resid sbdelay (usec)	6.54040E-01	+/-	5.6E-03
Phase delay (usec)	-1.04652993369E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-4.22383E-06	+/-	4.5E-07
Delay rate (us/s)	-8.56242114080E-01	Apriori rate (us/s)	-8.56242465900E-01	Resid rate (us/s)	3.51820E-07	+/-	2.6E-09
Total phase (deg)	-280.0	Apriori accel (us/s/s)	-2.78084046597E-05	Resid phase (deg)	-95.2	+/-	13.9

ph/seg (deg)	RMS 91.4	Theor. 118.9	Amplitude Search (2048X8)	1.138 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	80.3	207.5	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	6.9	Inc. seg. avg.	0.496	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.129	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

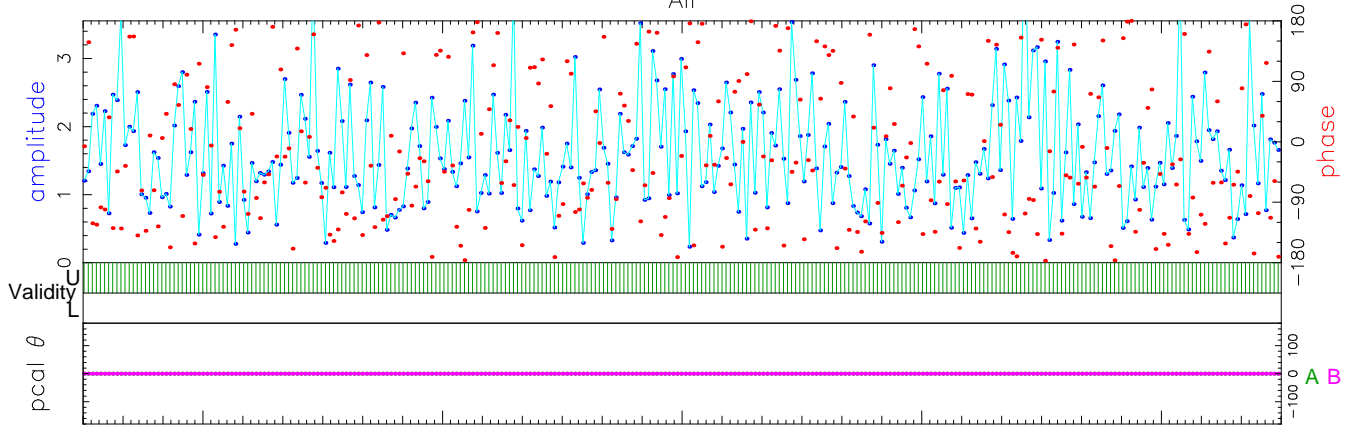
A: az 341.7 el 29.7 pa 159.5 b: az 107.5 el 62.2 pa -50.8 u,v (fr/asec) 5923.357 -9816.582 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ab..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ab.W.32.1T5GU7

Fringe quality 8



SNR 8.6
Int time 299.980
Amp 1.185
Phase 83.9
PFD 1.7e-10
Delays (us)
SBD -0.856633
MBD 0.000006
Fringe rate (Hz)
0.060808
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



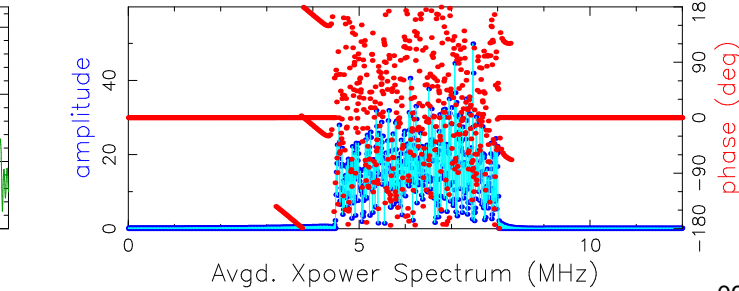
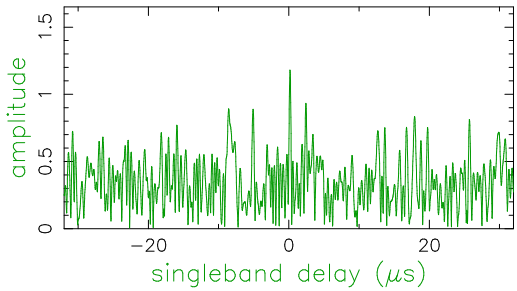
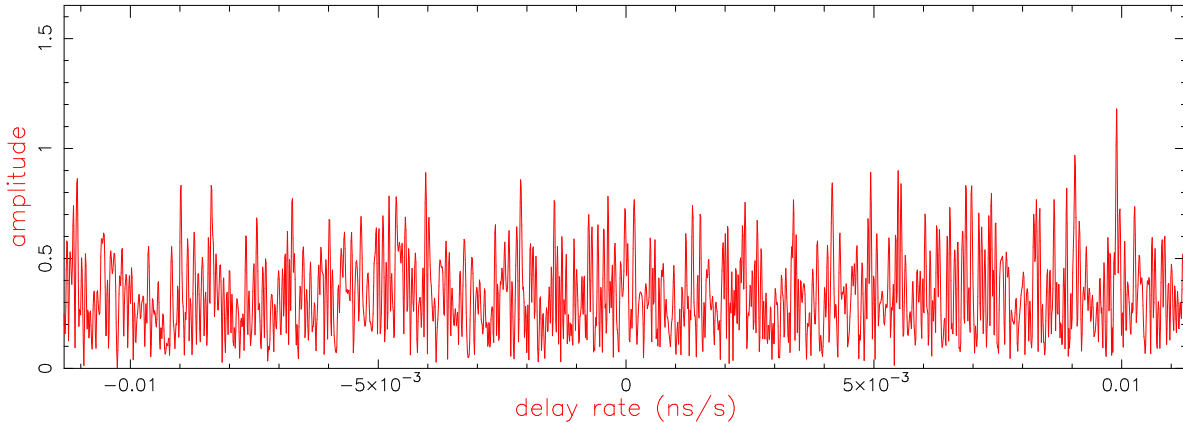
86227.00
-105.9
0.3
1495.9
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UR

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)	1.02067861315E+02	Apriori delay (usec)	1.02924489465E+02	Resid mbdelay (usec)	6.08376E-06	+/-	5.4E-03
Sband delay (usec)	1.02067856131E+02	Apriori clock (usec)	-2.0855354E+03	Resid sbdelay (usec)	-8.56633E-01	+/-	5.4E-03
Phase delay (usec)	1.02924486049E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.41548E-06	+/-	4.3E-07
Delay rate (us/s)	4.08502870493E-01	Apriori rate (us/s)	4.08502164570E-01	Resid rate (us/s)	7.05923E-07	+/-	2.5E-09
Total phase (deg)	272.0	Apriori accel (us/s/s)	-8.56435125841E-05	Resid phase (deg)	83.9	+/-	13.4

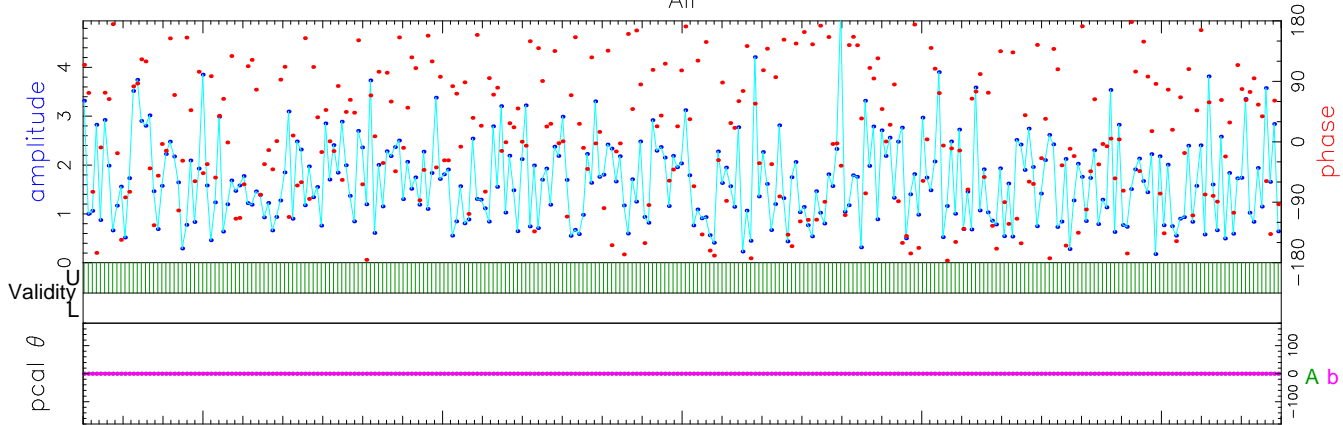
ph/seg (deg)	RMS 91.7	Theor. 114.3	Amplitude 1.160	1.185 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.7	199.6	Search (2048X8) 1.160	1.160	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Interp. 0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.7	Inc. seg. avg. 0.539	0.539	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.177	1.177	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
A: az 341.7 el 29.7 pa 159.5		B: az 296.1 el 23.6 pa 43.8		u,v (fr/asec) -2924.190 -13075.584		simultaneous interpolator

Fringe quality 8



SNR 8.6
Int time 299.958
Amp 1.651
Phase -335.6
PFD 1.9e-10
Delays (us)
SBD 0.172867
MBD 0.000006
Fringe rate (Hz)
0.851746
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



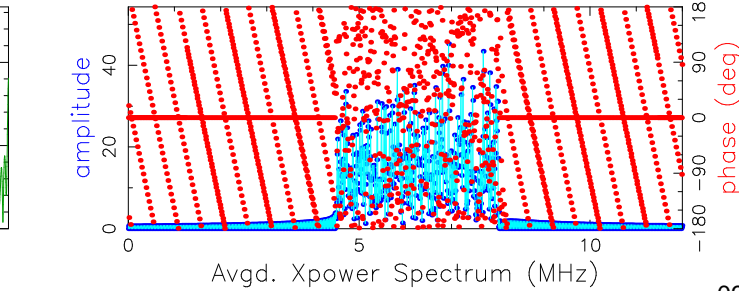
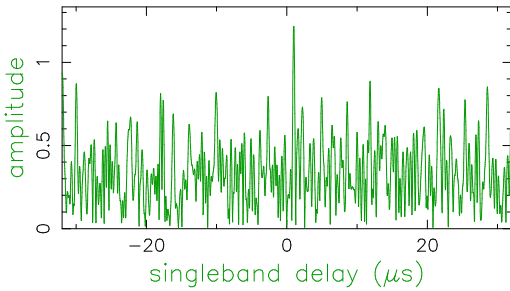
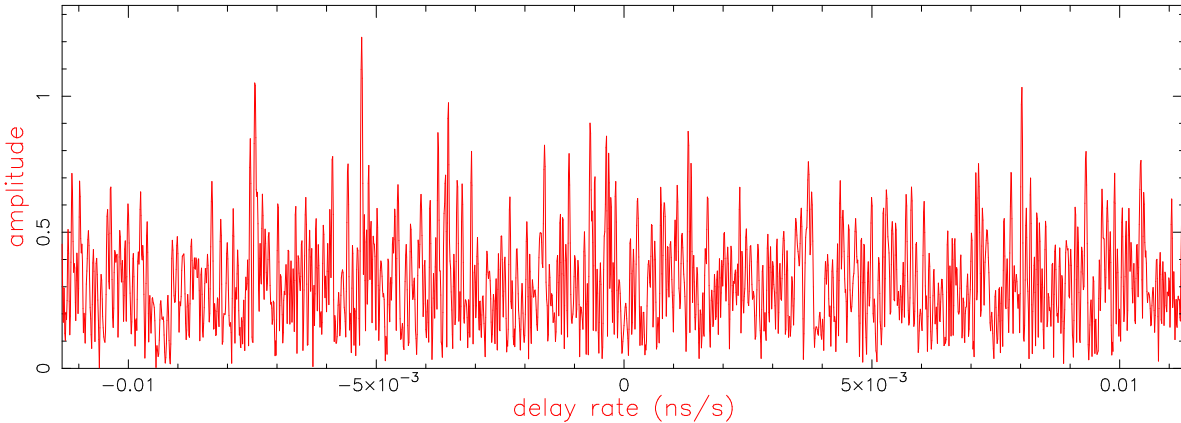
86227.00	38.3	0.5	1545.3	U/L 586/0	A 0	b 0	A:b 0:0	A:b 0:0	A 1000	b 1000	A W03UY	b W03UL	86227.00	38.3	0.5	1545.3	U/L 586/0	A 0	b 0	A:b 0:0	A:b 0:0	A 1000	b 1000	A W03UY	b W03UL
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Group delay (usec)(sbd)	-1.04651264689E+04	Apriori delay (usec)	-1.04652993326E+04	Resid mbdelay (usec)	6.00647E-06	+/-	5.4E-03
Sband delay (usec)	-1.04651264660E+04	Apriori clock (usec)	-2.1046125E+03	Resid sbdelay (usec)	1.72867E-01	+/-	5.4E-03
Phase delay (usec)	-1.04652993314E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	1.23568E-06	+/-	4.3E-07
Delay rate (us/s)	-8.56232577971E-01	Apriori rate (us/s)	-8.56242465900E-01	Resid rate (us/s)	9.88793E-06	+/-	2.5E-09
Total phase (deg)	-160.4	Apriori accel (us/s/s)	-2.78084046597E-05	Resid phase (deg)	-335.6	+/-	13.4

ph/seg (deg)	94.3	RMS	114.5	Theor.	1.651 +/- 0.193	Search (2048X8)	1.169	Amplitude	1.651 +/- 0.193	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	84.9	ph/frq (deg)	0.0	6.7	11.7	Inc. seg. avg.	0.784	Inc. frq. avg.	1.639	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/frq (%)	70.7	amp/frq (%)	70.7	11.7	11.7	Inc. frq. avg.	1.639	Inc. frq. avg.	1.639	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
		ph/frq (deg)	0.0	6.7	11.7	Inc. seg. avg.	0.784	Inc. frq. avg.	1.639	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
		amp/frq (%)	70.7	11.7	11.7	Inc. frq. avg.	1.639	Inc. frq. avg.	1.639	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	
										nlags:	1536 t_cohere infinite			

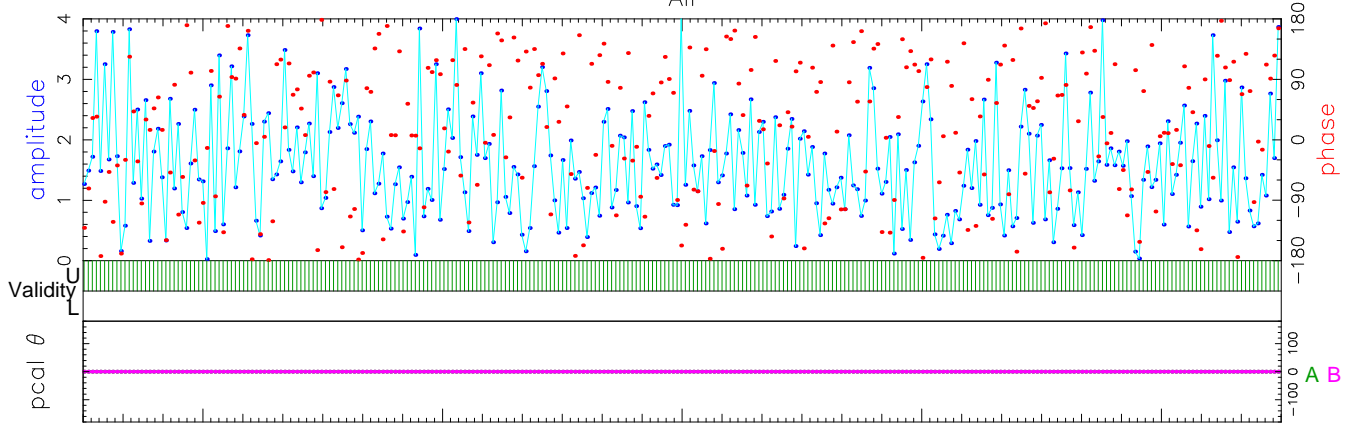
A: az 341.7 el 29.7 pa 159.5 b: az 107.5 el 62.2 pa -50.8 u,v (fr/asec) 5923.357 -9816.582 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ab..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ab.W.43.1T5GU7

Fringe quality 8



SNR 8.8
Int time 299.980
Amp 1.333
Phase -204.2
PFD 1.9e-11
Delays (us)
SBD 0.986299
MBD -0.000007
Fringe rate (Hz)
-0.455787
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
86.8
0.4
1584.3
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UY
B W03UL

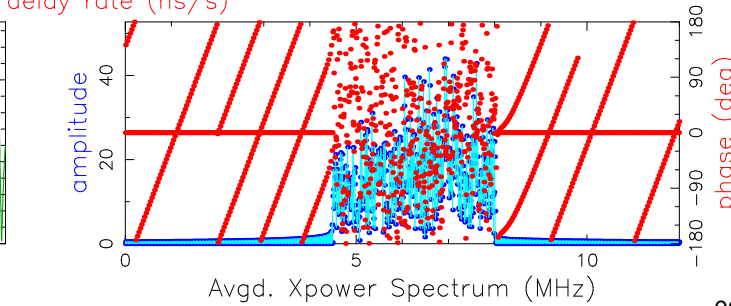
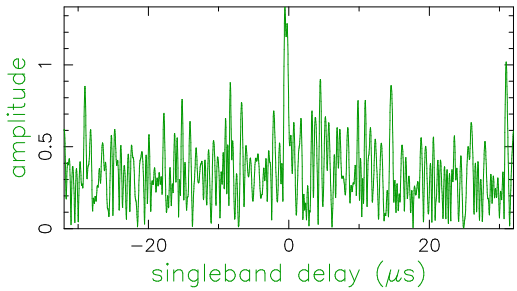
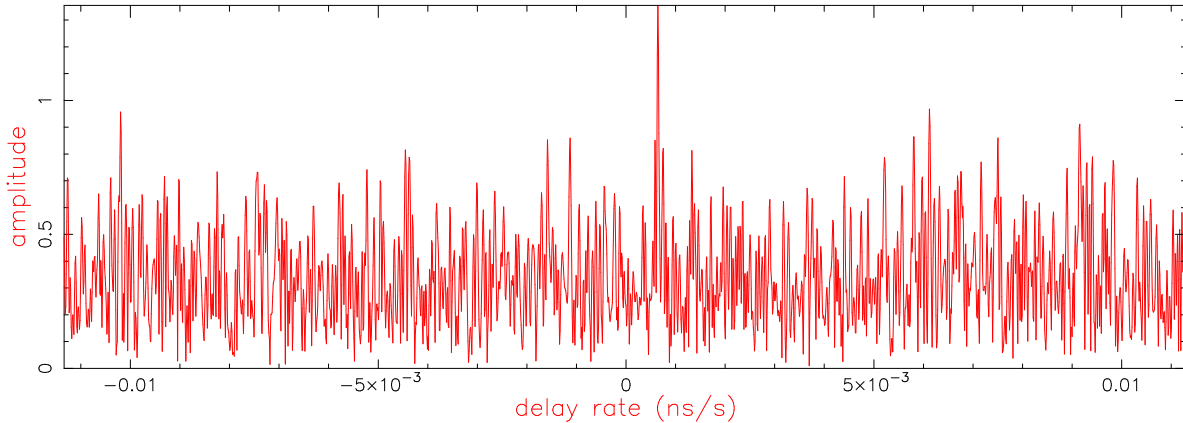
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.03910785835E+02	Apriori delay (usec)	1.02924489465E+02	Resid mbdelay (usec)	-7.22391E-06	+/- 5.2E-03
Sband delay (usec)	1.03910788131E+02	Apriori clock (usec)	-2.0855354E+03	Resid sbdelay (usec)	9.86299E-01	+/- 5.2E-03
Phase delay (usec)	1.02924492265E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.80067E-06	+/- 4.2E-07
Delay rate (us/s)	4.08496873332E-01	Apriori rate (us/s)	4.08502164570E-01	Resid rate (us/s)	-5.29124E-06	+/- 2.4E-09
Total phase (deg)	-16.1	Apriori accel (us/s/s)	-8.56435125841E-05	Resid phase (deg)	-204.2	+/- 13.0

ph/seg (deg)	RMS 94.0	Theor. 111.1	Amplitude Search (2048X8)	1.333 +/- 0.151	1.213	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.6	193.9	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.608	24	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.324	48	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 341.7 el 29.7 pa 159.5 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) -2924.190 -13075.584 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/AB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/AB.W.53.1T5GU7

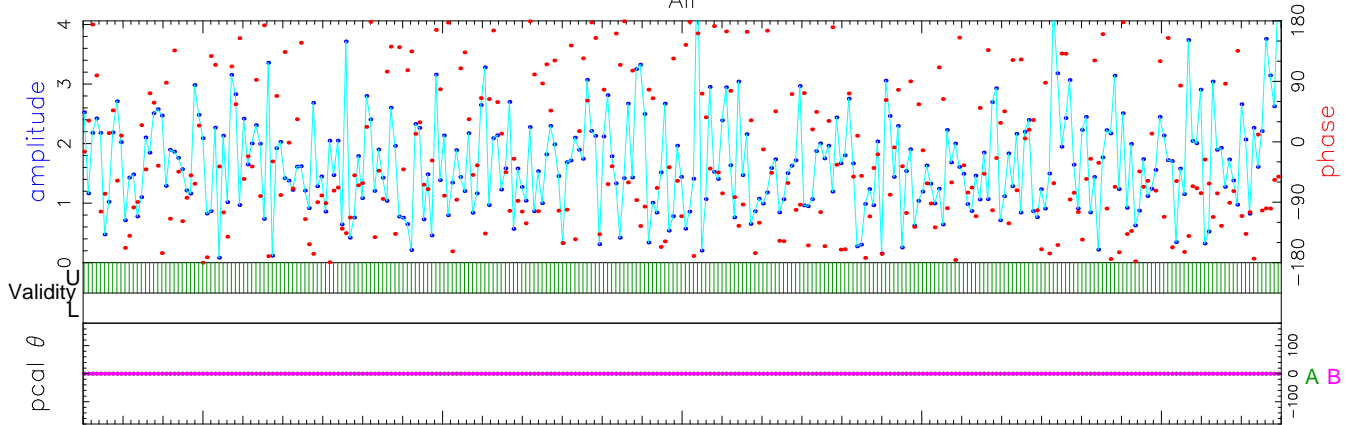
Fringe quality 8



SNR 9.8
Int time 299.980
Amp 1.355
Phase 359.6
PFD 2.0e-15
Delays (us)
SBD -0.555013
MBD 0.000005
Fringe rate (Hz)
0.055670
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051929
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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

All



86227.00
-103.8
0.4
1510.4
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UY
B W03UR

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

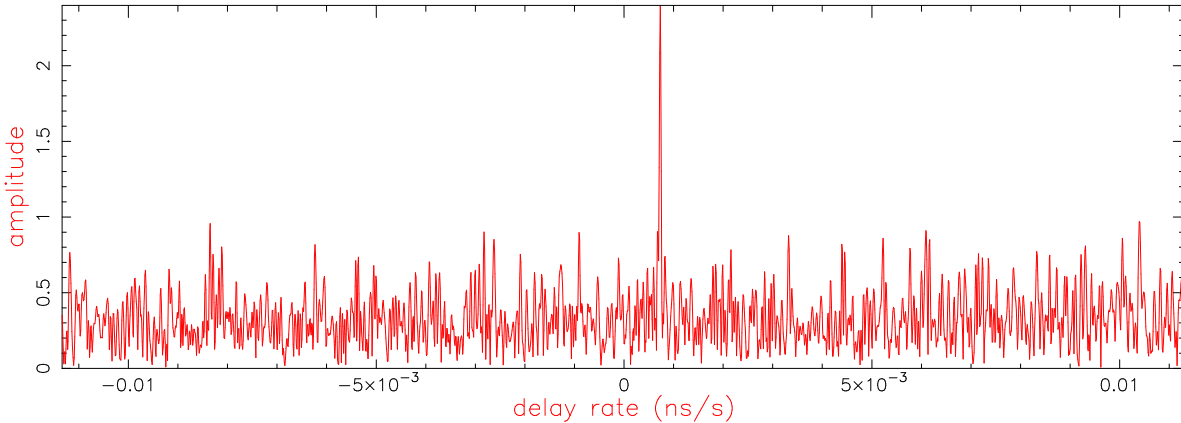
Group delay (usec)(sbd)	1.02369471129E+02	Apriori delay (usec)	1.02924489465E+02	Resid mbdelay (usec)	5.03304E-06	+/-	4.7E-03
Sband delay (usec)	1.02369476131E+02	Apriori clock (usec)	-2.0855354E+03	Resid sbdelay (usec)	-5.55013E-01	+/-	4.7E-03
Phase delay (usec)	1.02924486119E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.34581E-06	+/-	3.8E-07
Delay rate (us/s)	4.08502810847E-01	Apriori rate (us/s)	4.08502164570E-01	Resid rate (us/s)	6.46278E-07	+/-	2.2E-09
Total phase (deg)	187.7	Apriori accel (us/s/s)	-8.56435125841E-05	Resid phase (deg)	359.6	+/-	11.7

ph/seg (deg)	RMS 91.6	Theor. 100.0	Amplitude Search (2048X8)	1.355 +/- 0.138	1.317	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.7	174.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.8	Inc. seg. avg.	0.665	0.665	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.2	Inc. frq. avg.	1.347	1.347	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

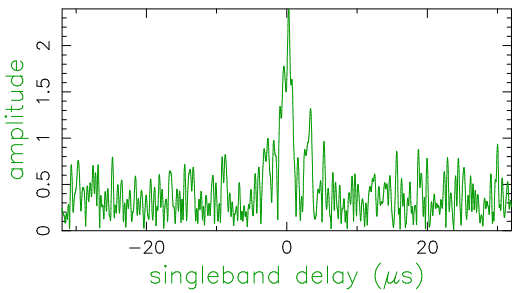
A: az 341.7 el 29.7 pa 159.5 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) -2924.190 -13075.584 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/AB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/AB.W.7.1T5GU7

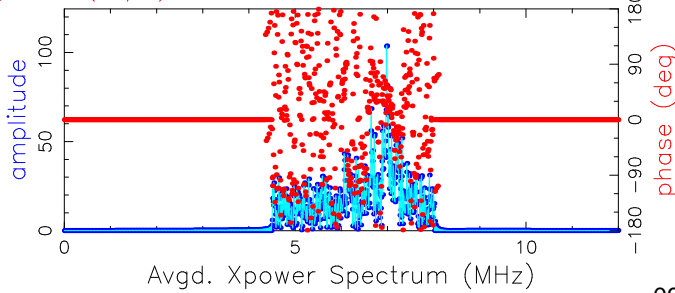
Fringe quality 7



SNR 17.4
Int time 299.973
Amp 2.398
Phase -196.2
PFD 0.0e+00
Delays (us)
SBD 0.266721
MBD 0.000007
Fringe rate (Hz)
0.063122
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

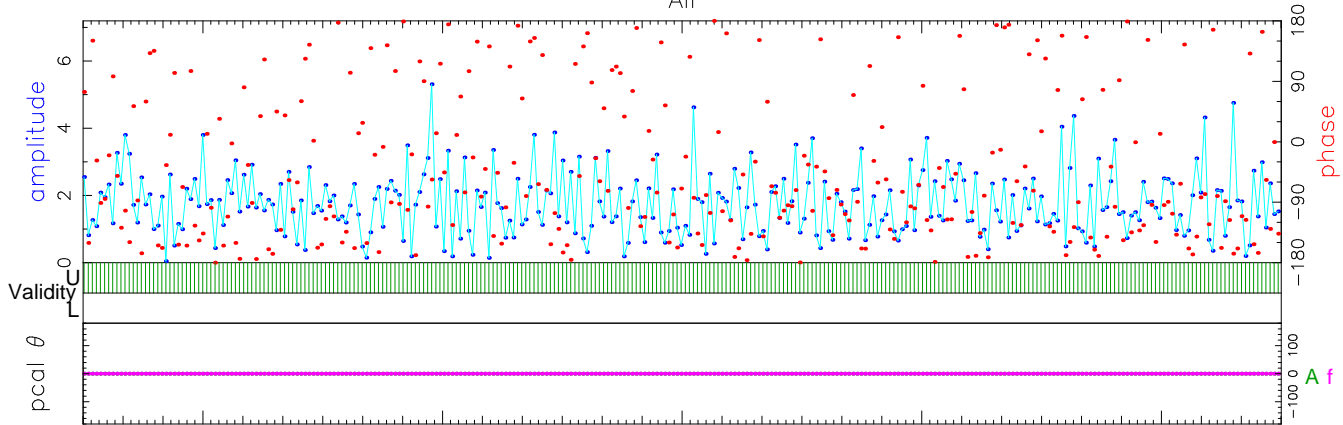


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-122.7
0.7
1549.8
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UR

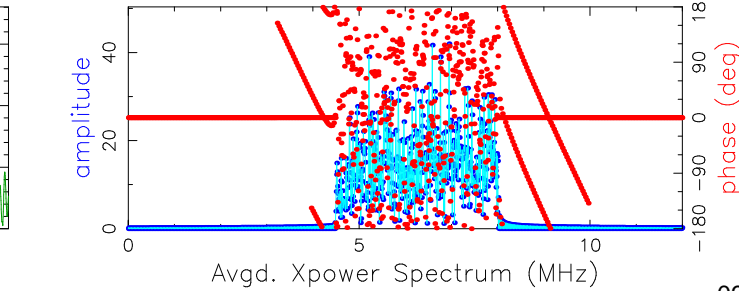
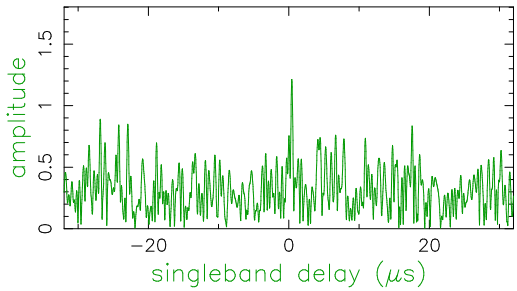
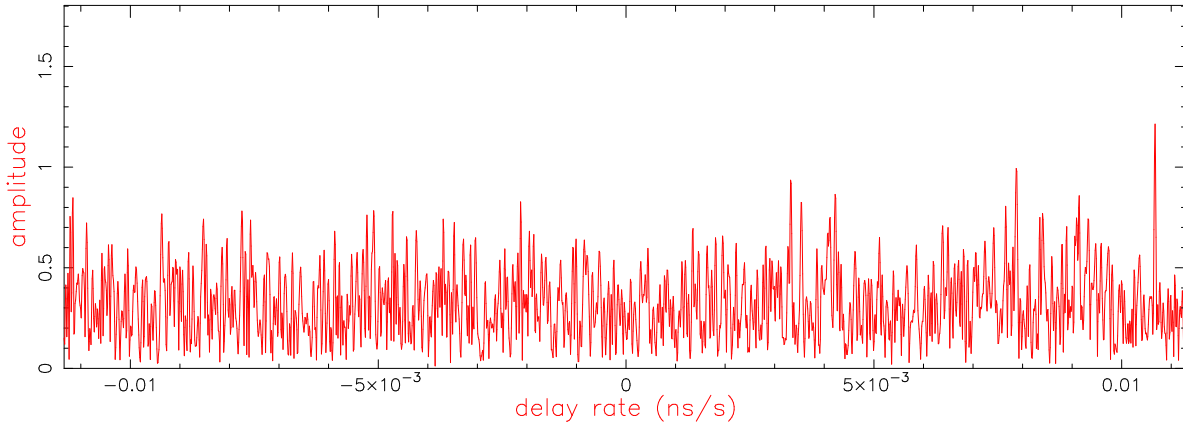
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22168376903E+04	Apriori delay (usec)	-1.22171044116E+04	Resid mbdelay (usec)	6.66668E-06	+/-	2.6E-03
Sband delay (usec)	-1.22168376902E+04	Apriori clock (usec)	-2.1178645E+03	Resid sbdelay (usec)	2.66721E-01	+/-	2.6E-03
Phase delay (usec)	-1.22171044155E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-3.95708E-06	+/-	2.1E-07
Delay rate (us/s)	-7.10798452900E-01	Apriori rate (us/s)	-7.10799185685E-01	Resid rate (us/s)	7.32785E-07	+/-	1.2E-09
Total phase (deg)	-200.9	Apriori accel (us/s/s)	-3.57761542472E-06	Resid phase (deg)	-196.2	+/-	6.6

ph/seg (deg)	RMS 81.6	Theor. 56.5	Amplitude 2.398 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	47.5	98.6	Search (2048X8) 2.363	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	3.3	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	5.8	Inc. seg. avg. 1.185	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 2.394	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

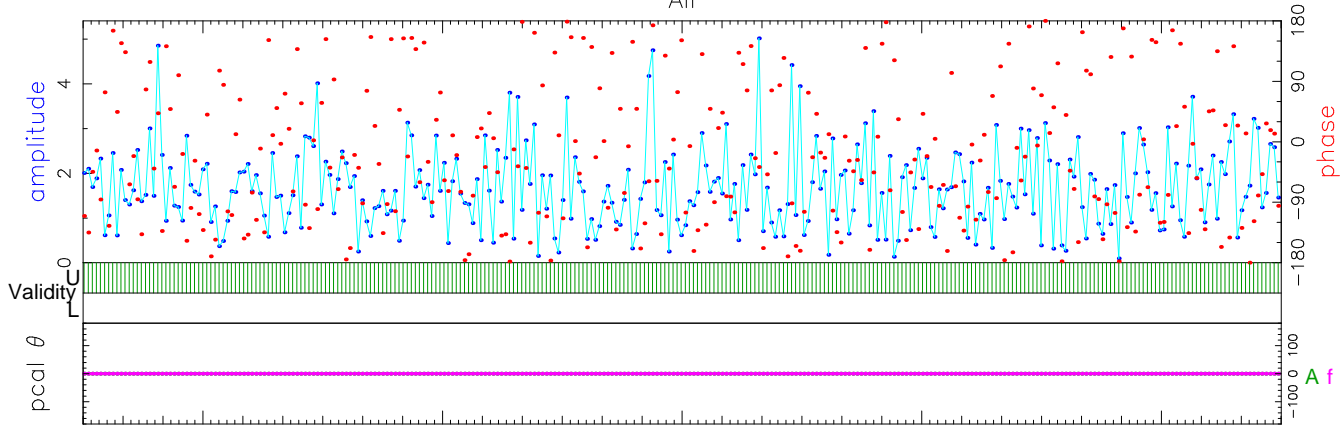
A: az 341.7 el 29.7 pa 159.5 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 4939.564 -6788.605 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Af..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Af.W.28.1T5GU7

Fringe quality 8



SNR 8.8
Int time 299.973
Amp 1.804
Phase -149.1
PFD 2.1e-11
Delays (us)
SBD 0.427368
MBD 0.000004
Fringe rate (Hz)
0.918110
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051929
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-84.2
0.5
1557.5
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UL

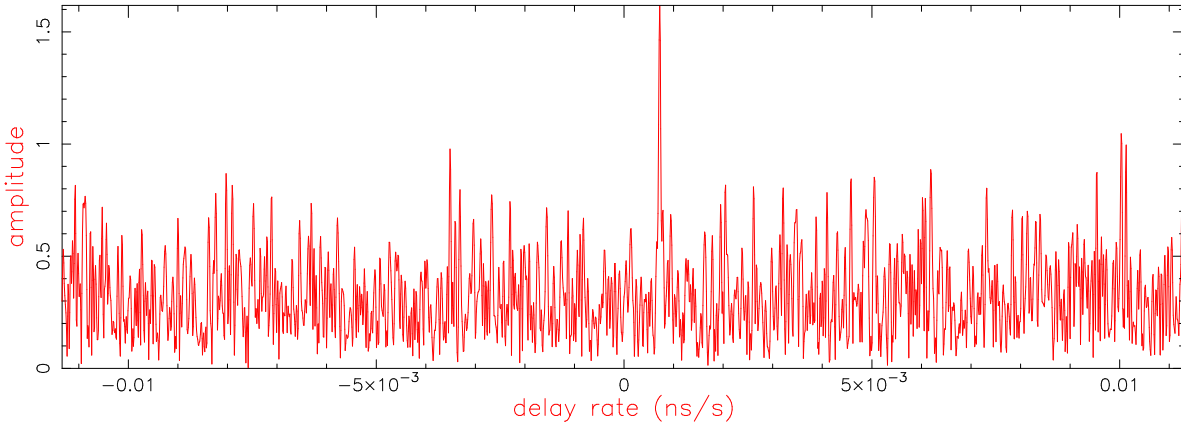
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22166770469E+04	Apriori delay (usec)	-1.22171044116E+04	Resid mbdelay (usec)	4.34964E-06	+/-	5.2E-03
Sband delay (usec)	-1.22166770436E+04	Apriori clock (usec)	-2.1178645E+03	Resid sbdelay (usec)	4.27368E-01	+/-	5.2E-03
Phase delay (usec)	-1.22171044143E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-2.71473E-06	+/-	4.2E-07
Delay rate (us/s)	-7.10788527336E-01	Apriori rate (us/s)	-7.10799185685E-01	Resid rate (us/s)	1.06583E-05	+/-	2.4E-09
Total phase (deg)	-153.8	Apriori accel (us/s/s)	-3.57761542472E-06	Resid phase (deg)	-149.1	+/-	13.0

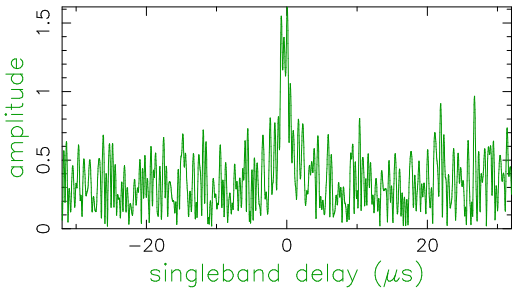
ph/seg (deg)	RMS 93.1	Theor. 111.2	Amplitude Search (2048X8)	1.804 +/- 0.205	1.196	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.9	194.1	Interp.	0.000	1.196	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.862	0.862	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.789	1.789	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 341.7 el 29.7 pa 159.5 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 4939.564 -6788.605 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Af..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Af.W.4.1T5GU7

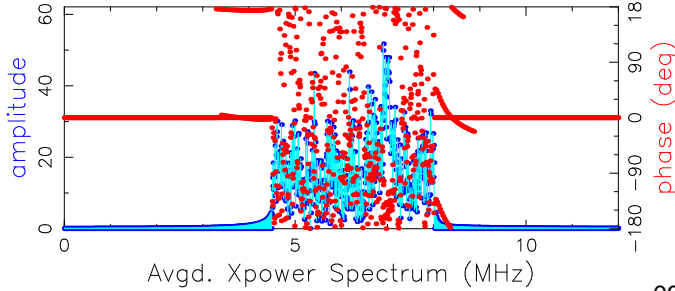
Fringe quality 7



SNR 11.7
Int time 299.973
Amp 1.618
Phase -146.2
PFD 2.6e-24
Delays (us)
SBD 0.063031
MBD 0.000007
Fringe rate (Hz)
0.062343
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

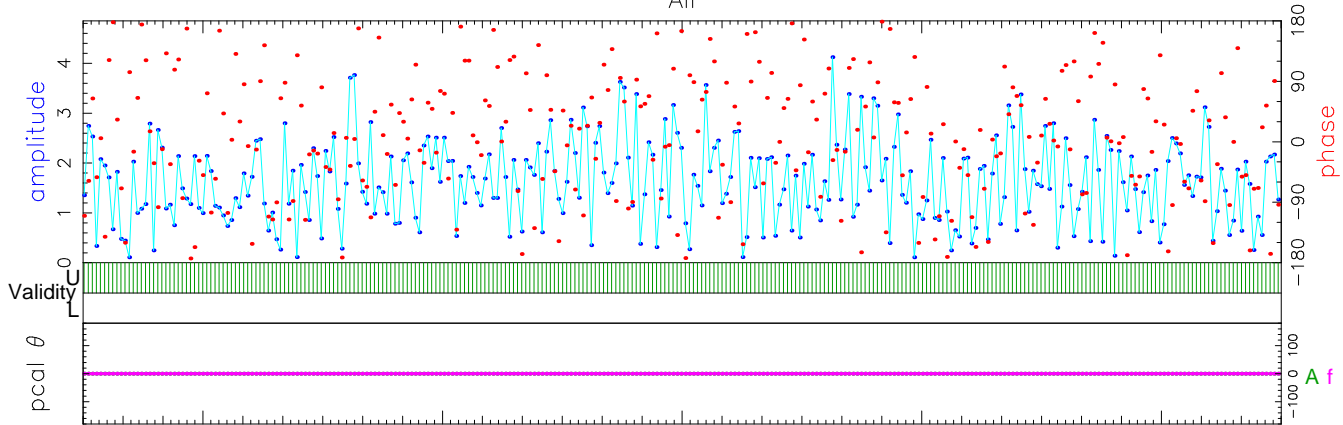


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
27.6
0.5
1540.0
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UR

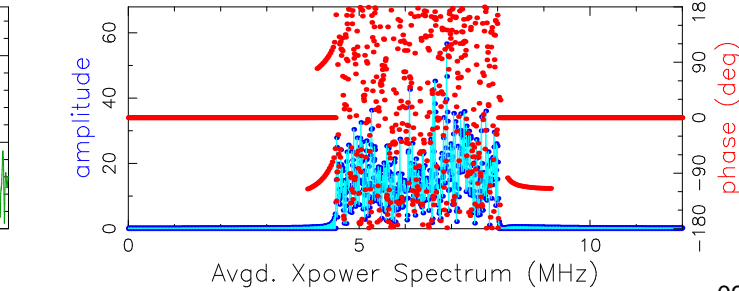
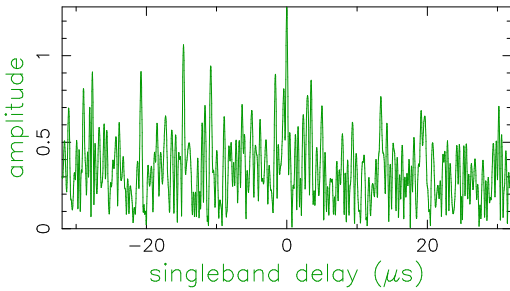
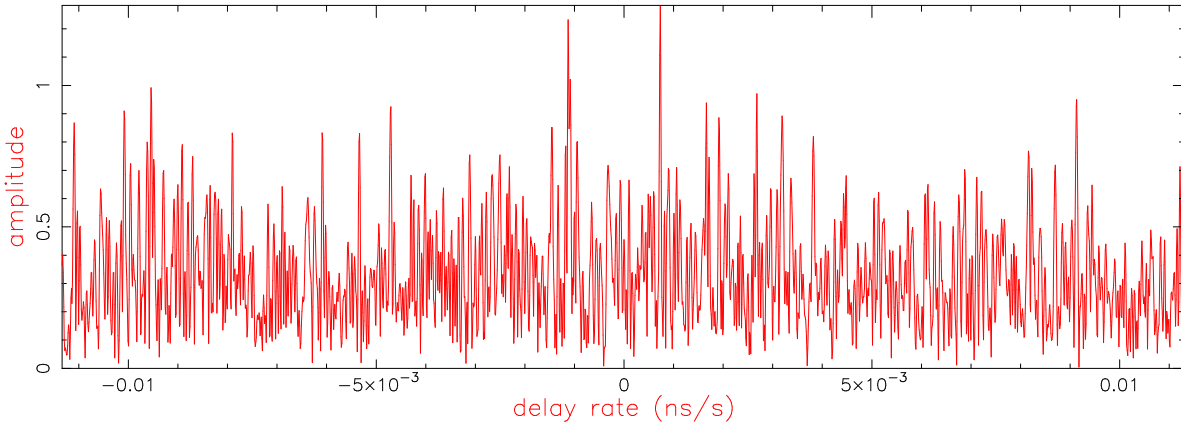
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22170413851E+04	Apriori delay (usec)	-1.22171044116E+04	Resid mbdelay (usec)	6.81875E-06	+/-	3.9E-03
Sband delay (usec)	-1.22170413809E+04	Apriori clock (usec)	-2.1178645E+03	Resid sbdelay (usec)	6.30307E-02	+/-	3.9E-03
Phase delay (usec)	-1.22171044107E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	8.89357E-07	+/-	3.2E-07
Delay rate (us/s)	-7.10798461948E-01	Apriori rate (us/s)	-7.10799185685E-01	Resid rate (us/s)	7.23737E-07	+/-	1.8E-09
Total phase (deg)	-150.9	Apriori accel (us/s/s)	-3.57761542472E-06	Resid phase (deg)	-146.2	+/-	9.8

ph/seg (deg)	RMS 90.1	Theor. 83.7	Amplitude Search (2048X8)	1.618 +/- 0.138	1.582	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	51.2	146.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	4.9	Inc. seg. avg.	0.785	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	8.5	Inc. frq. avg.	1.612	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				u,v (fr/asec) 4939.564 -6788.605	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

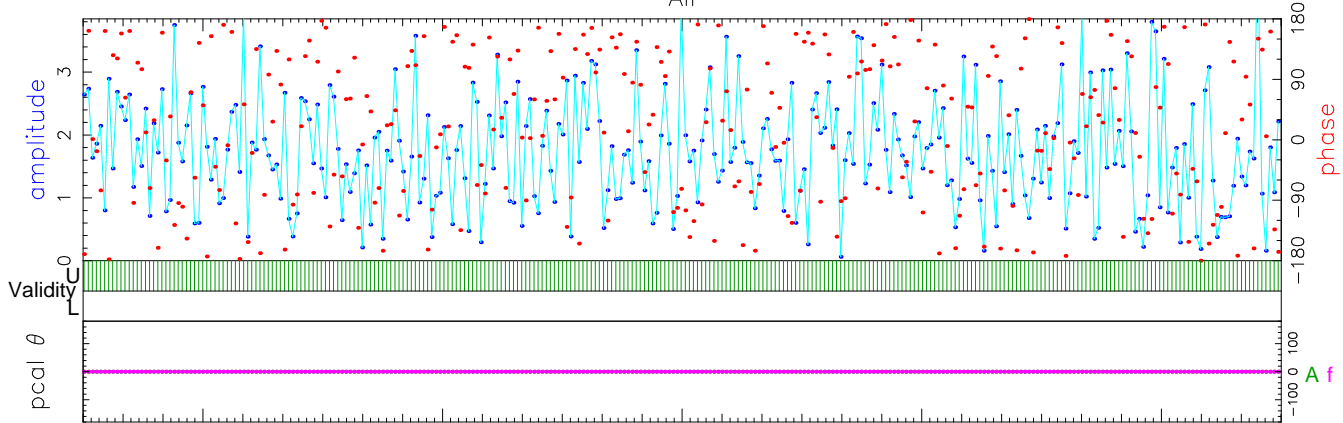
A: az 341.7 el 29.7 pa 159.5 f: az 70.7 el 75.3 pa -100.1 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Af..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Af.W.55.1T5GU7

Fringe quality 8



SNR 9.3
Int time 299.973
Amp 1.283
Phase 24.6
PFD 3.0e-13
Delays (us)
SBD -0.007813
MBD 0.000005
Fringe rate (Hz)
0.062833
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



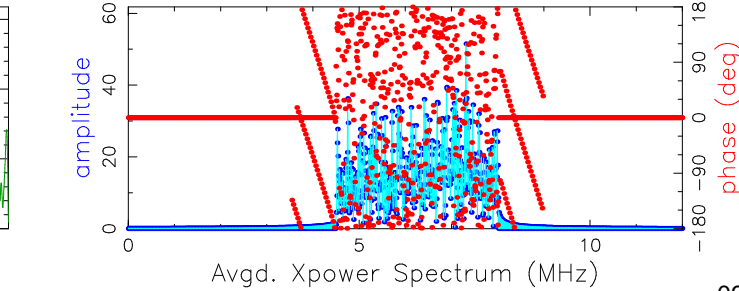
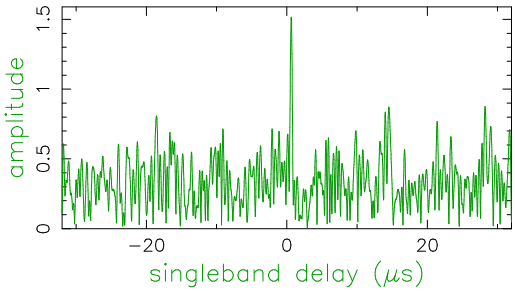
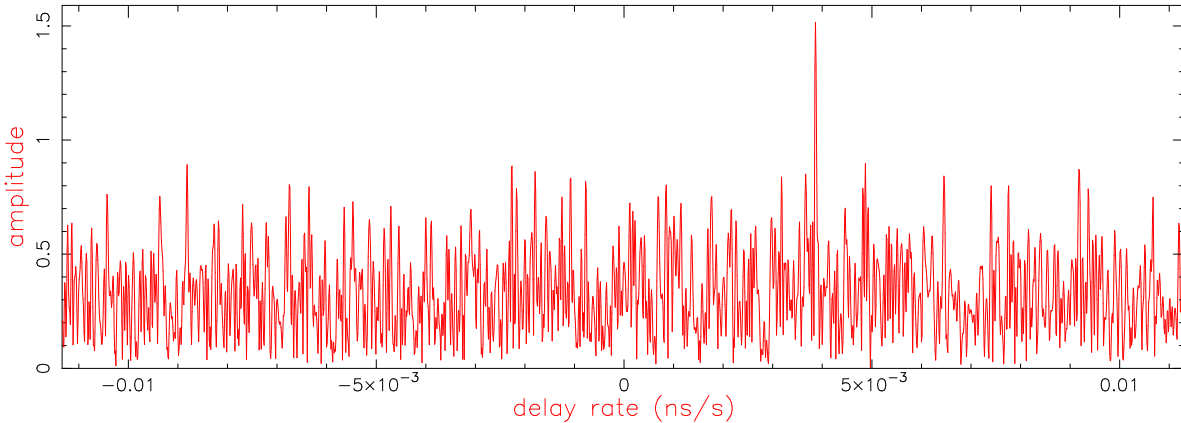
86227.00
139.8
0.4
1536.6
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UL

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)	-1.22171122231E+04	Apriori delay (usec)	-1.22171044116E+04	Resid mbdelay (usec)	5.03545E-06	+/-	4.9E-03
Sband delay (usec)	-1.22171122249E+04	Apriori clock (usec)	-2.1178645E+03	Resid sbdelay (usec)	-7.81333E-03	+/-	4.9E-03
Phase delay (usec)	-1.22171044071E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	4.50656E-06	+/-	4.0E-07
Delay rate (us/s)	-7.107998456256E-01	Apriori rate (us/s)	-7.10799185685E-01	Resid rate (us/s)	7.29429E-07	+/-	2.3E-09
Total phase (deg)	19.9	Apriori accel (us/s/s)	-3.57761542472E-06	Resid phase (deg)	24.6	+/-	12.3

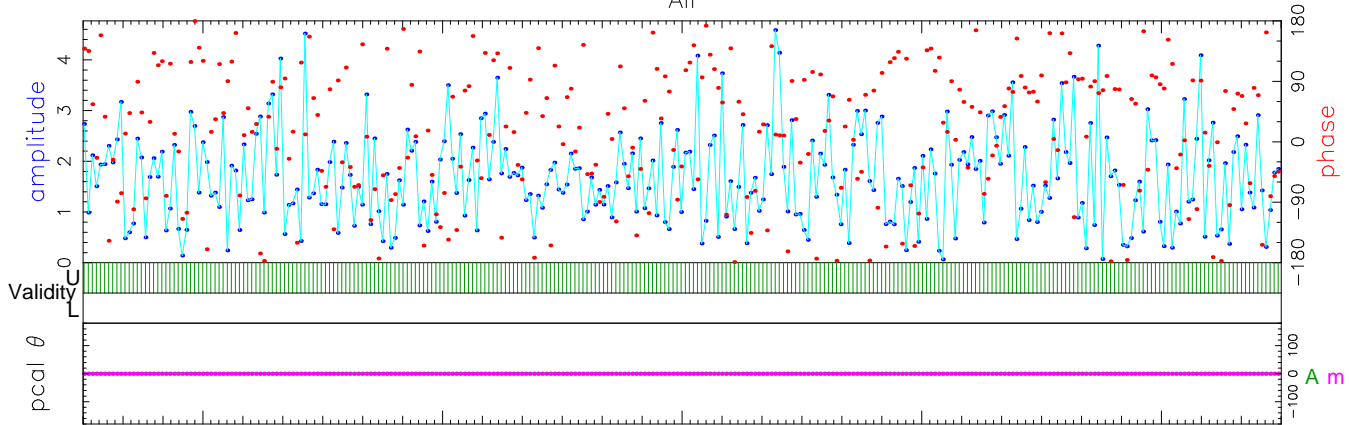
ph/seg (deg)	RMS 94.4	Theor. 105.6	Amplitude Search (2048X8)	1.283 +/- 0.138	1.267	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.7	184.3	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.647	24	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.274	48	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

Fringe quality 7



SNR 11.0
Int time 299.983
Amp 1.590
Phase -205.2
PFD 9.8e-21
Delays (us)
SBD 0.628984
MBD 0.000004
Fringe rate (Hz)
0.332669
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



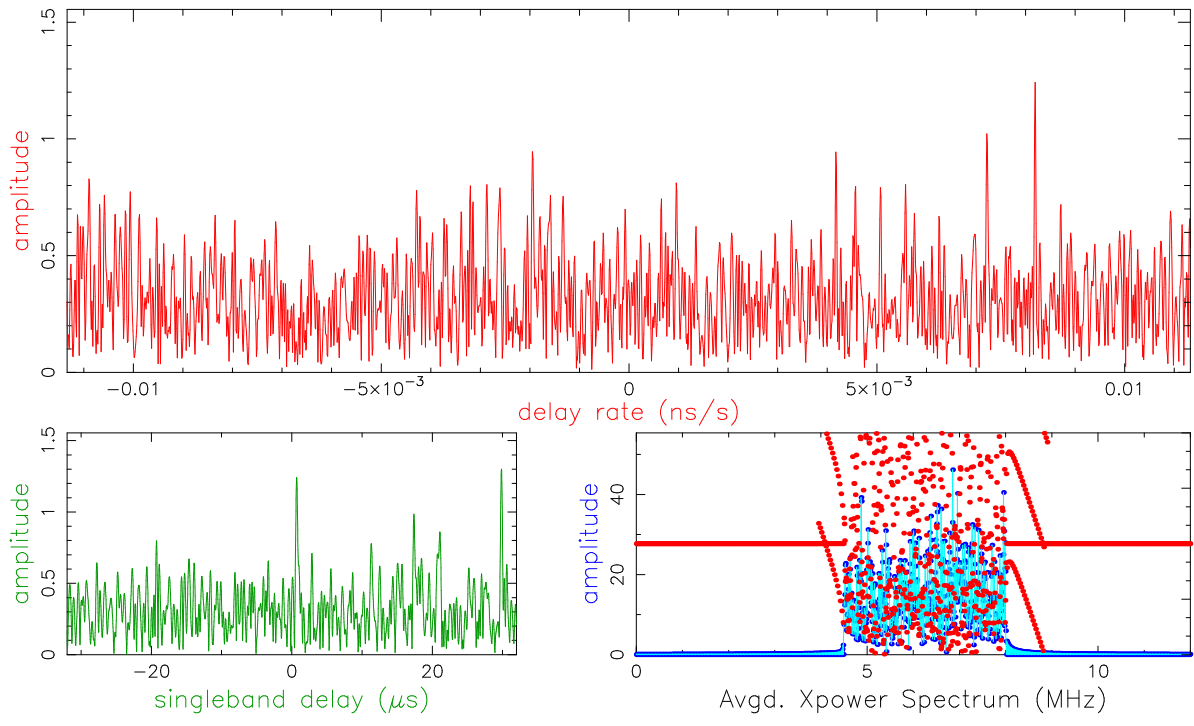
86227.00
54.5
0.5
1567.2
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UY
m W03UR

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)	-1.93944501129E+03	Apriori delay (usec)	-1.94007399497E+03	Resid mbdelay (usec)	4.35485E-06	+/-	4.2E-03
Sband delay (usec)	-1.93944501097E+03	Apriori clock (usec)	-2.1233203E+03	Resid sbdelay (usec)	6.28984E-01	+/-	4.2E-03
Phase delay (usec)	-1.94007399321E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.75603E-06	+/-	3.4E-07
Delay rate (us/s)	-1.51900429330E+00	Apriori rate (us/s)	-1.51900815526E+00	Resid rate (us/s)	3.86196E-06	+/-	1.9E-09
Total phase (deg)	-178.7	Apriori accel (us/s/s)	-4.73905077680E-05	Resid phase (deg)	-205.2	+/-	10.4

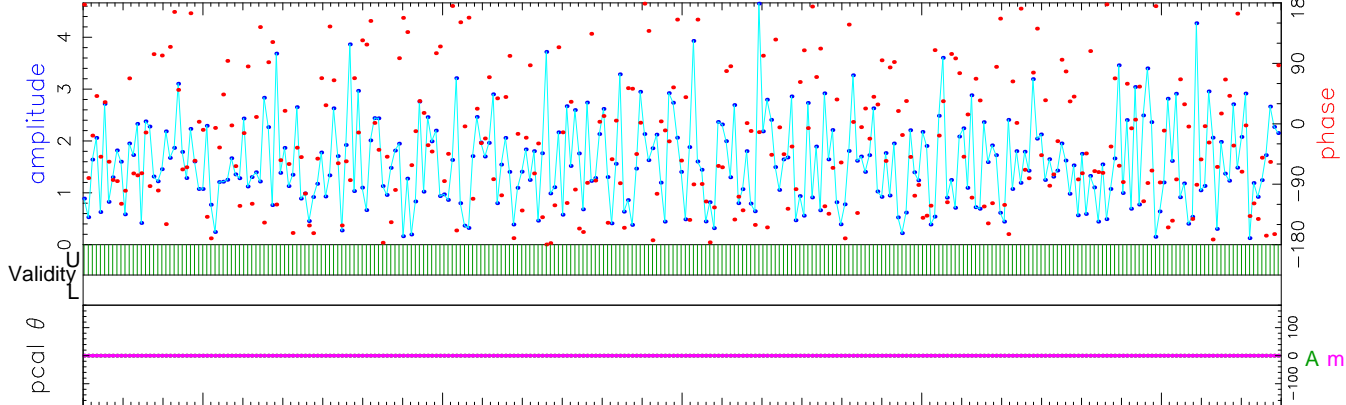
ph/seg (deg)	RMS 89.0	Theor. 89.3	Amplitude Search (2048X8)	1.590 +/- 0.145	1.494	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	61.4	155.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.2	Inc. seg. avg.	0.800	0.800	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	9.1	Inc. frq. avg.	1.583	1.583	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 341.7 el 29.7 pa 159.5 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 10497.446 -7934.750 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Am..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Am.W.21.1T5GU7



Fringe quality 8
SNR 9.0
Int time 299.983
Amp 1.555
Phase -12.7
PFD 3.8e-12
Delays (us)
SBD 0.688349
MBD 0.000007
Fringe rate (Hz) 0.705245
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



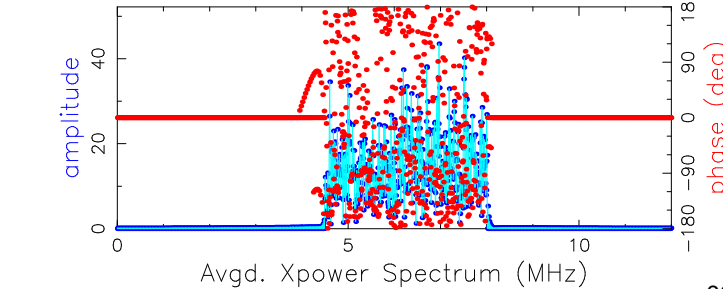
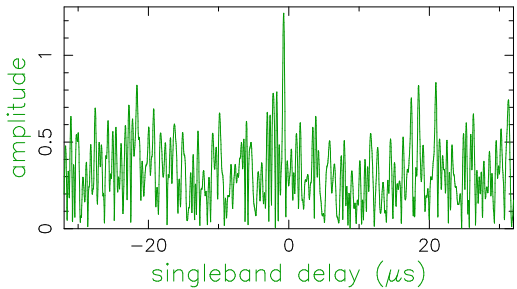
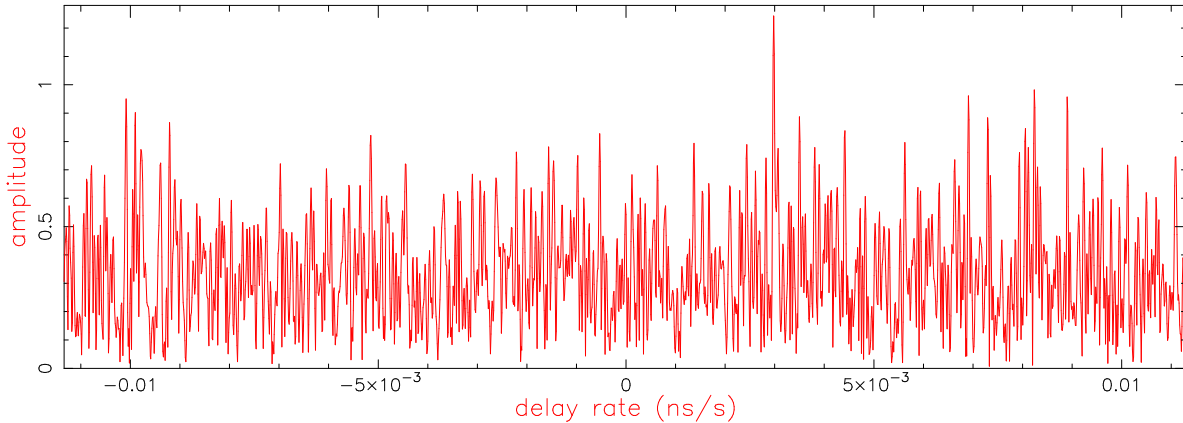
86227.00
-53.7
0.5
2969.9
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UR

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)	-1.93938564186E+03	Apriori delay (usec)	-1.94007399497E+03	Resid mbdelay (usec)	7.23228E-06	+/-	5.1E-03
Sband delay (usec)	-1.93938564563E+03	Apriori clock (usec)	-2.1233203E+03	Resid sbdelay (usec)	6.88349E-01	+/-	5.1E-03
Phase delay (usec)	-1.94007399670E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.73293E-06	+/-	4.1E-07
Delay rate (us/s)	-1.51899996806E+00	Apriori rate (us/s)	-1.51900815526E+00	Resid rate (us/s)	8.18719E-06	+/-	2.4E-09
Total phase (deg)	-346.3	Apriori accel (us/s/s)	-4.73905077680E-05	Resid phase (deg)	-12.7	+/-	12.7

ph/seg (deg)	RMS 91.1	Theor. 108.9	Amplitude Search (2048X8)	1.555 +/- 0.173	1.196	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.7	190.0	Interp.	0.000	1.196	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.710	1.196	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.545	1.196	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

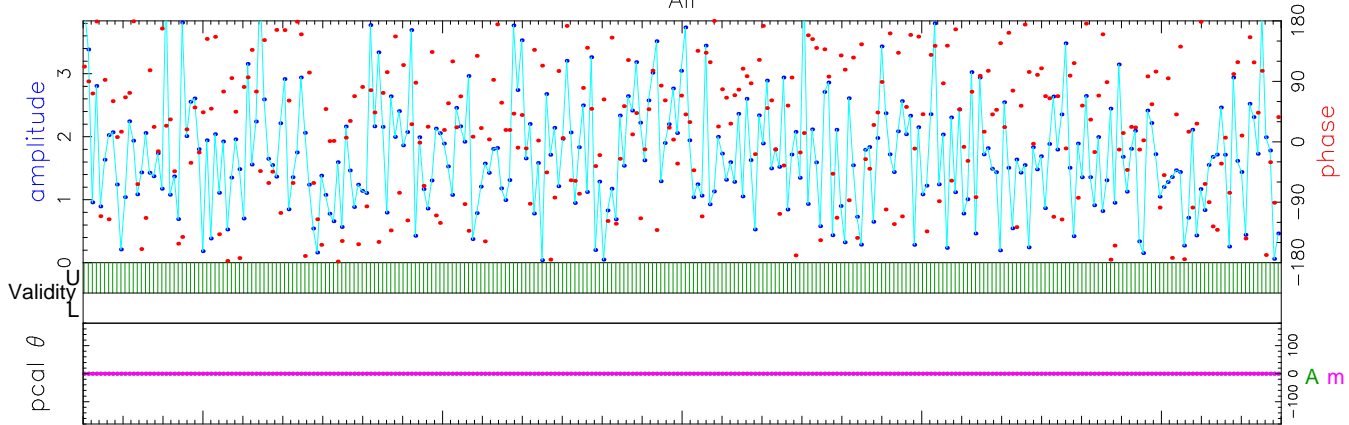
Fringe quality 8



SNR 9.0
Int time 299.983
Amp 1.280
Phase 103.2
PFD 3.4e-12
Delays (us)
SBD -0.736684
MBD 0.000007
Fringe rate (Hz)
0.256706
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
70.0
0.4
1501.6
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UY
m W03UL

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

Group delay (usec)(sbd)	-1.94081068273E+03	Apriori delay (usec)	-1.94007399497E+03	Resid mbdelay (usec)	7.24485E-06	+/-	5.1E-03
Sband delay (usec)	-1.94081067897E+03	Apriori clock (usec)	-2.1233203E+03	Resid sbdelay (usec)	-7.36684E-01	+/-	5.1E-03
Phase delay (usec)	-1.94007399271E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.25571E-06	+/-	4.1E-07
Delay rate (us/s)	-1.51900517516E+00	Apriori rate (us/s)	-1.51900815526E+00	Resid rate (us/s)	2.98010E-06	+/-	2.4E-09
Total phase (deg)	129.7	Apriori accel (us/s/s)	-4.73905077680E-05	Resid phase (deg)	103.2	+/-	12.7

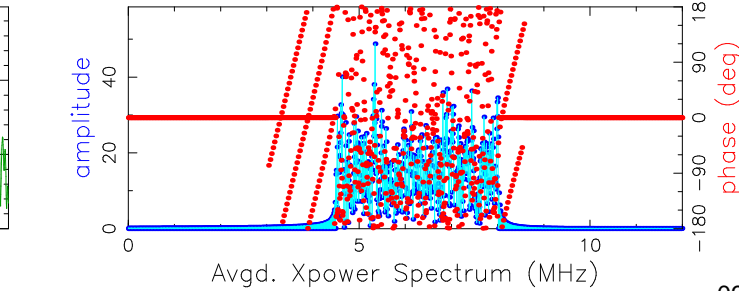
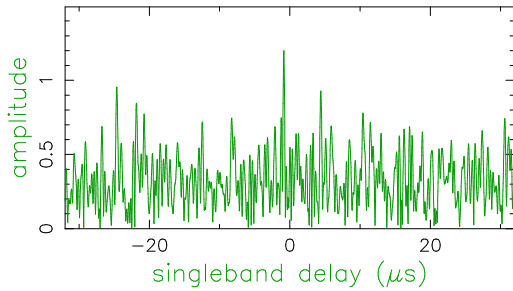
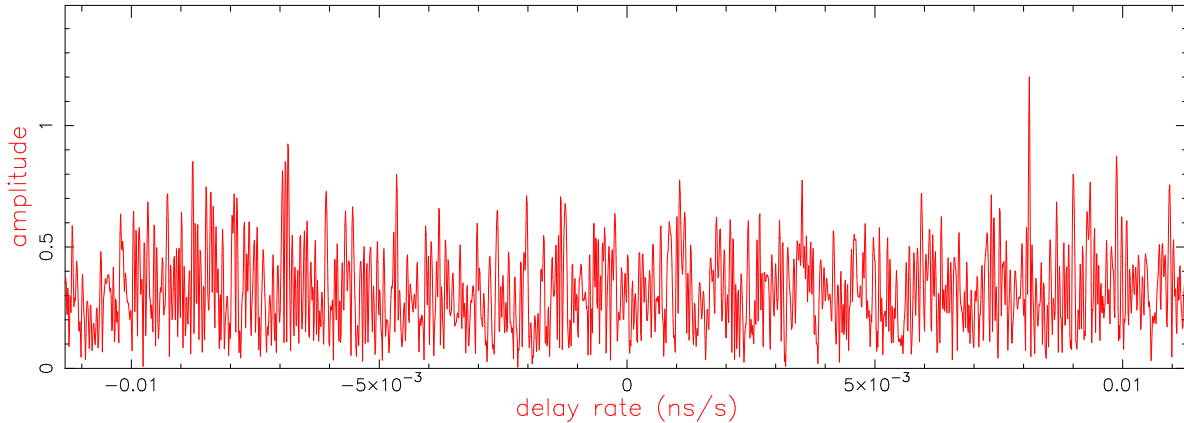
ph/seg (deg)	RMS 92.9	Theor. 108.7	Amplitude Search (2048X8)	1.236	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.8	189.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.634	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.271	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 341.7 el 29.7 pa 159.5 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 10497.446 -7934.750 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Am..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Am.W.46.1T5GU7

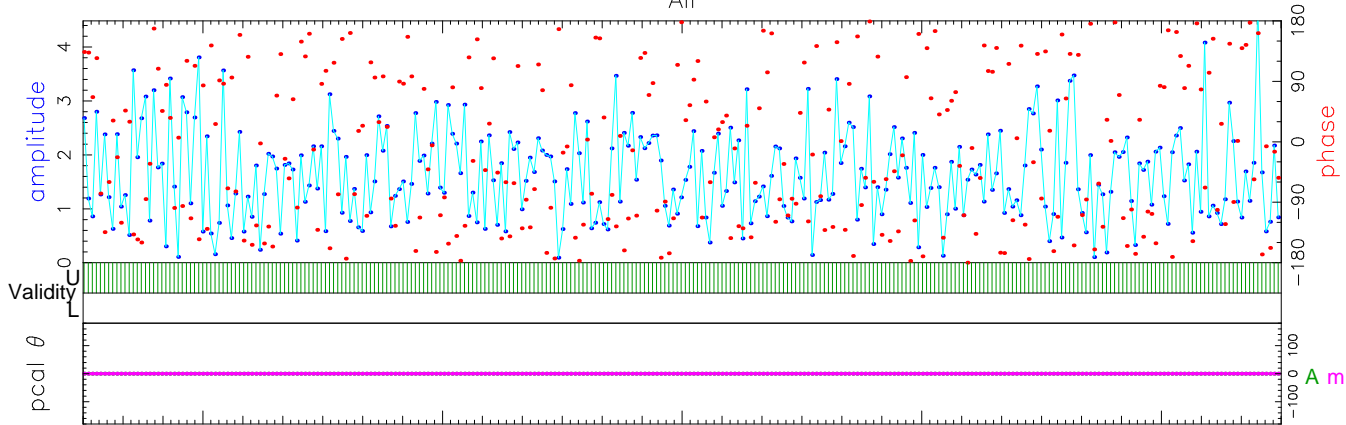
Fringe quality 8

SNR 8.7
Int time 299.983
Amp 1.495
Phase 306.3
PFD 5.6e-11
Delays (us)
SBD -0.854163
MBD 0.000005
Fringe rate (Hz)
0.698082
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-166.1
0.4
1496.0
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UL

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)	-1.94092815372E+03	Apriori delay (usec)	-1.94007399497E+03	Resid mbdelay (usec)	5.25367E-06	+/-	5.3E-03
Sband delay (usec)	-1.94092815763E+03	Apriori clock (usec)	-2.1233203E+03	Resid sbdelay (usec)	-8.54163E-01	+/-	5.3E-03
Phase delay (usec)	-1.94007400032E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-5.35613E-06	+/-	4.2E-07
Delay rate (us/s)	-1.51900005122E+00	Apriori rate (us/s)	-1.51900815526E+00	Resid rate (us/s)	8.10403E-06	+/-	2.5E-09
Total phase (deg)	332.8	Apriori accel (us/s/s)	-4.73905077680E-05	Resid phase (deg)	306.3	+/-	13.2

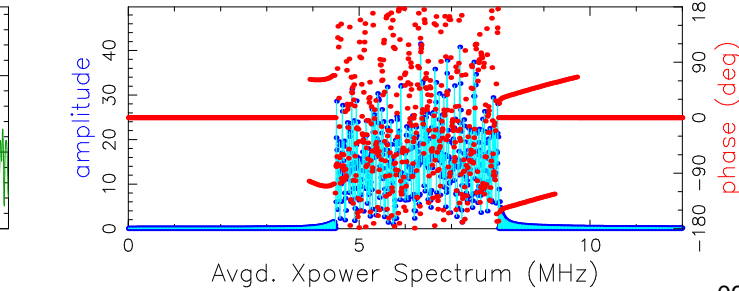
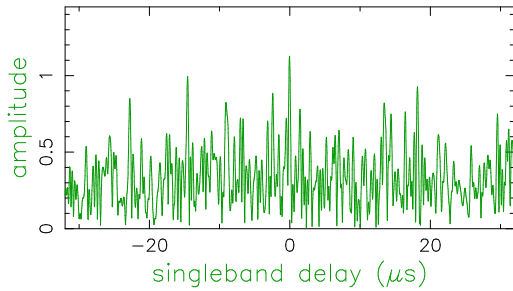
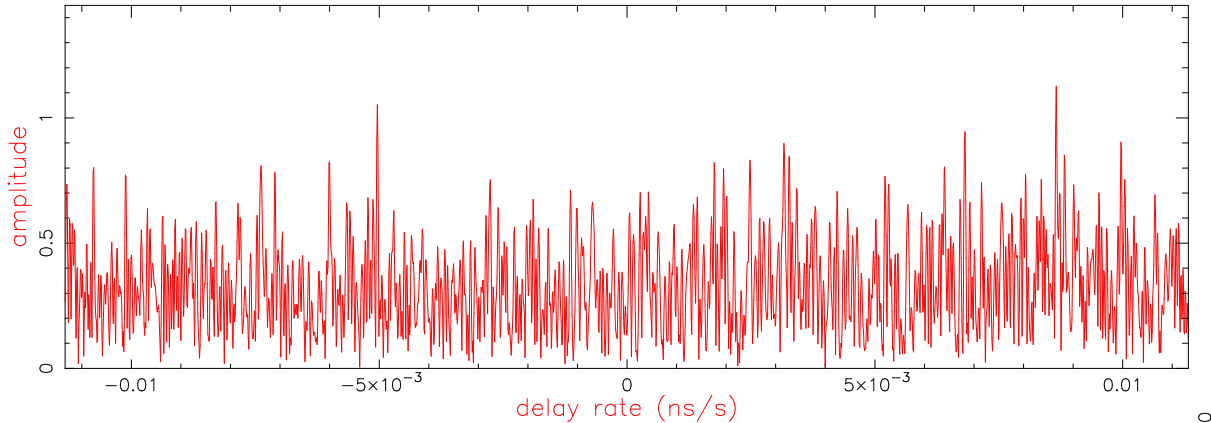
ph/seg (deg)	RMS 92.9	Theor. 112.7	Amplitude Search (2048X8)	1.495 +/- 0.172	1.198	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.0	196.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.691	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.486	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	nlags: 1536 t_cohere infinite

A: az 341.7 el 29.7 pa 159.5 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 10497.446 -7934.750 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Am..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Am.W.8.1T5GU7

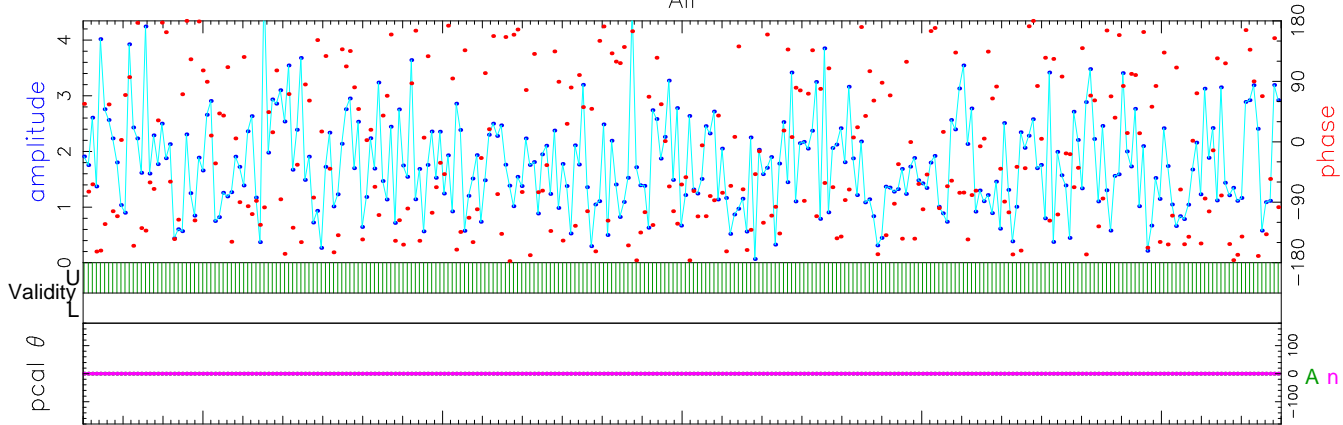
Fringe quality 8

SNR 8.2
Int time 299.972
Amp 1.449
Phase 212.0
PFD 5.2e-09
Delays (us)
SBD -0.045733
MBD 0.000007
Fringe rate (Hz)
0.744906
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-140.5
0.4
1534.8
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UL

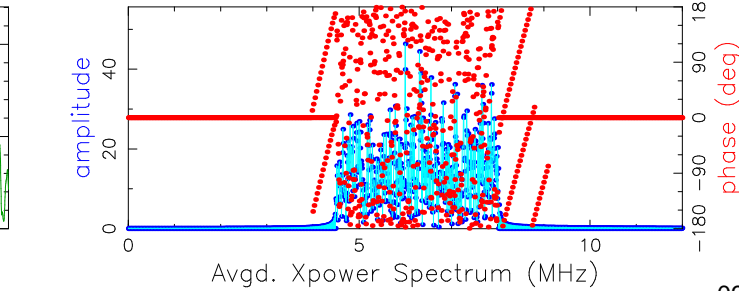
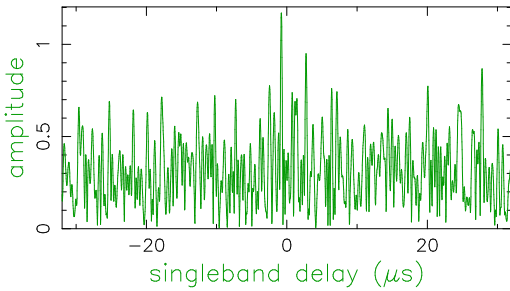
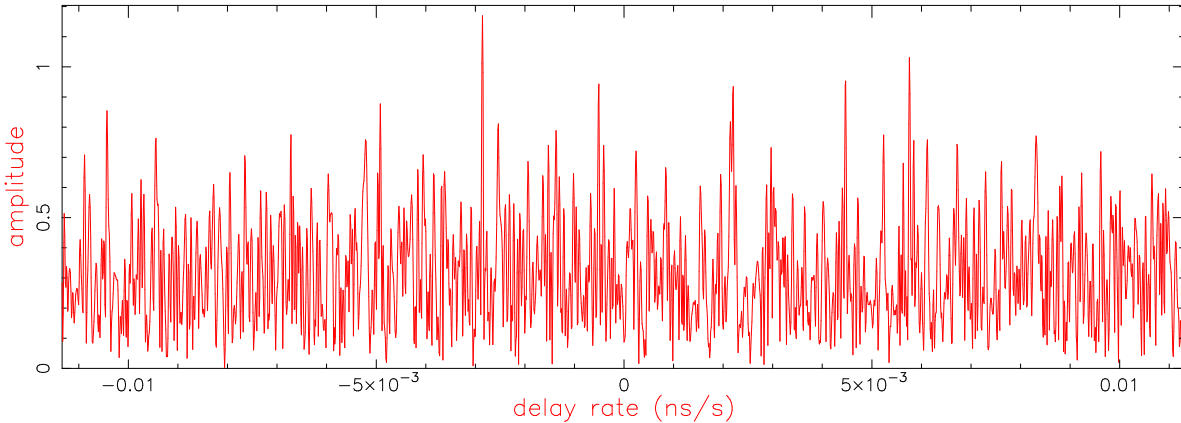
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.26475135561E+04	Apriori delay (usec)	-1.26474678236E+04	Resid mbdelay (usec)	7.24593E-06	+/-	5.6E-03
Sband delay (usec)	-1.26475135570E+04	Apriori clock (usec)	-2.1130874E+03	Resid sbdelay (usec)	-4.57333E-02	+/-	5.6E-03
Phase delay (usec)	-1.26474678282E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.53192E-06	+/-	4.5E-07
Delay rate (us/s)	-4.67149438541E-01	Apriori rate (us/s)	-4.67158086164E-01	Resid rate (us/s)	8.64762E-06	+/-	2.6E-09
Total phase (deg)	94.1	Apriori accel (us/s/s)	-1.12377201359E-05	Resid phase (deg)	212.0	+/-	14.0

ph/seg (deg)	RMS 94.2	Theor. 120.1	Amplitude Search (2048X8)	1.449 +/- 0.177	1.120	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	96.0	209.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.714	Sample rate(MSamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.438	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

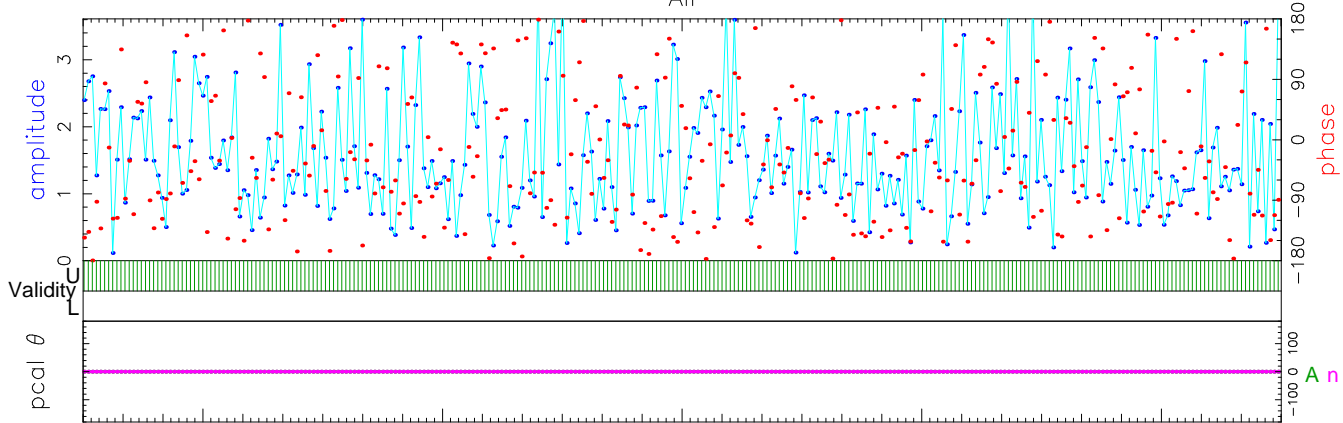
A: az 341.7 el 29.7 pa 159.5 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 3240.779 -8333.999 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/An..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/An.W.14.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.972
Amp 1.204
Phase 258.7
PFD 3.2e-10
Delays (us)
SBD -0.780948
MBD -0.000007
Fringe rate (Hz)
-0.245901
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-80.3
0.4
1499.5
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UR

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

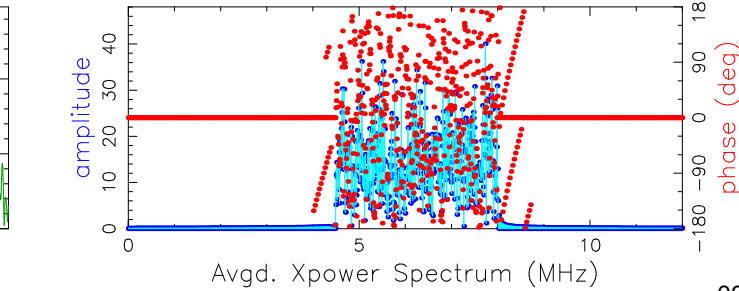
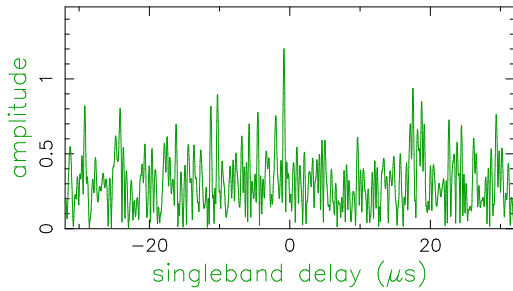
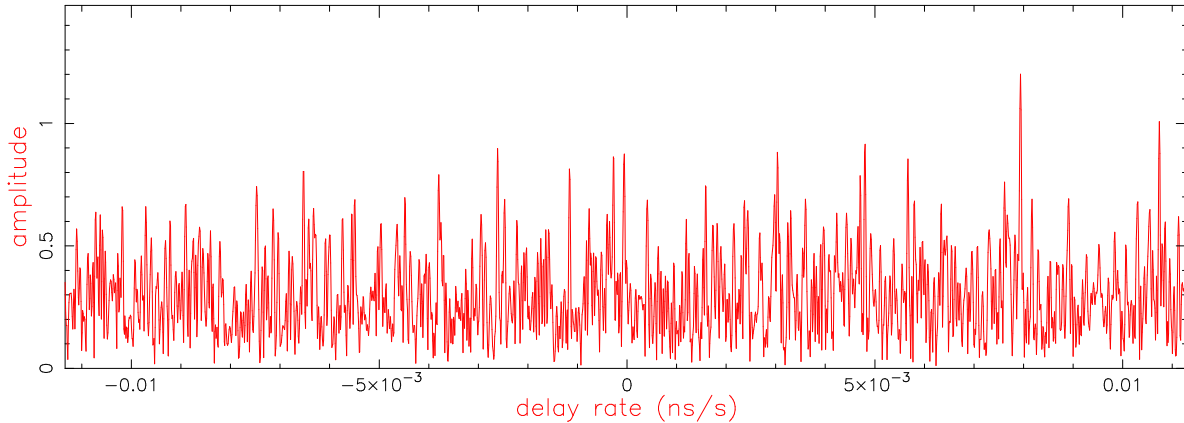
Group delay (usec)(sbd)	-1.26482487695E+04	Apriori delay (usec)	-1.26474678236E+04	Resid mbdelay (usec)	-7.14472E-06	+/- 5.4E-03
Sband delay (usec)	-1.26482487716E+04	Apriori clock (usec)	-2.1130874E+03	Resid sbdelay (usec)	-7.80948E-01	+/- 5.4E-03
Phase delay (usec)	-1.26474678262E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.58969E-06	+/- 4.3E-07
Delay rate (us/s)	-4.67160940836E-01	Apriori rate (us/s)	-4.67158086164E-01	Resid rate (us/s)	-2.85467E-06	+/- 2.5E-09
Total phase (deg)	140.7	Apriori accel (us/s/s)	-1.12377201359E-05	Resid phase (deg)	258.7	+/- 13.5

ph/seg (deg)	RMS 92.5	Theor. 115.3	Amplitude Search (2048X8)	1.204 +/- 0.142	1.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	83.2	201.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.544	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000	
amp/frq (%)	70.8	11.8	Inc. frq. avg.	1.192	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011	
				A: az 341.7 el 29.7 pa 159.5		nlags: 1536 t_cohere infinite		ion window (TEC)	0.00 0.00

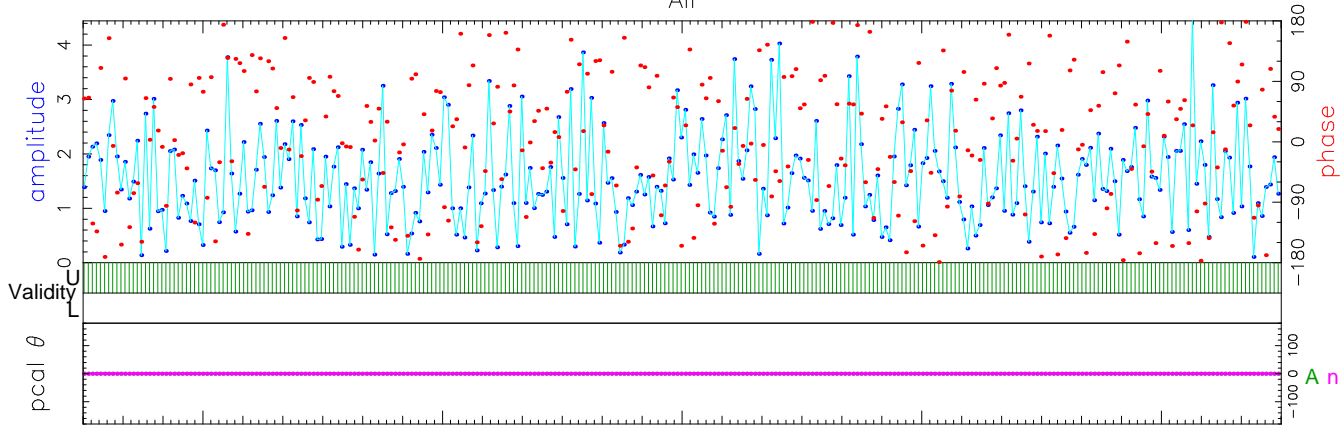
Fringe quality 8

SNR 8.7
Int time 299.972
Amp 1.482
Phase 297.9
PFD 5.2e-11
Delays (us)
SBD -0.836105
MBD 0.000005
Fringe rate (Hz)
0.682671
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



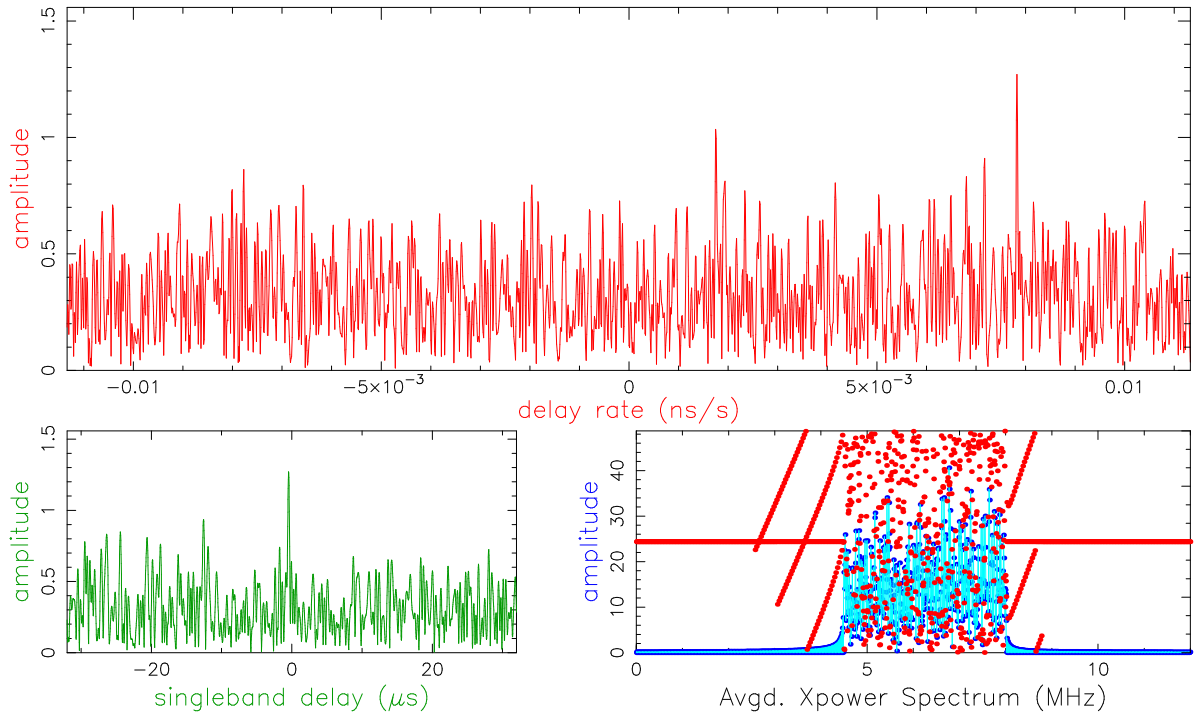
86227.00
31.0
0.4
1496.9
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UR

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)	-1.26483039259E+04	Apriori delay (usec)	-1.26474678236E+04	Resid mbdelay (usec)	4.70498E-06	+/-	5.3E-03
Sband delay (usec)	-1.26483039290E+04	Apriori clock (usec)	-2.1130874E+03	Resid sbdelay (usec)	-8.36105E-01	+/-	5.3E-03
Phase delay (usec)	-1.26474678226E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.00002E-06	+/-	4.2E-07
Delay rate (us/s)	-4.67150161033E-01	Apriori rate (us/s)	-4.67158086164E-01	Resid rate (us/s)	7.92513E-06	+/-	2.4E-09
Total phase (deg)	179.9	Apriori accel (us/s/s)	-1.12377201359E-05	Resid phase (deg)	297.9	+/-	13.2

ph/seg (deg)	RMS 94.2	Theor. 112.6	Amplitude Search (2048X8)	1.482 +/- 0.170	1.193	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.3	196.5	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.661	24	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.472	48	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

A: az 341.7 el 29.7 pa 159.5 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 3240.779 -8333.999 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/An..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/An.W.47.1T5GU7

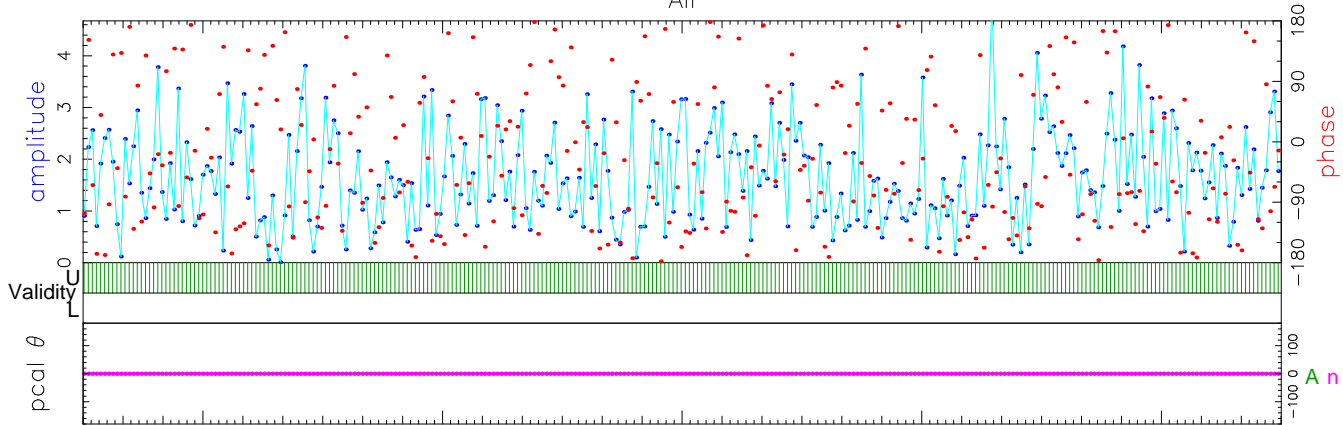


Fringe quality 8

SNR 9.2
Int time 299.972
Amp 1.558
Phase 102.4
PFD 5.8e-13
Delays (us)
SBD -0.454541
MBD 0.000007
Fringe rate (Hz)
0.673562
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-93.9
0.5
1515.2
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UL

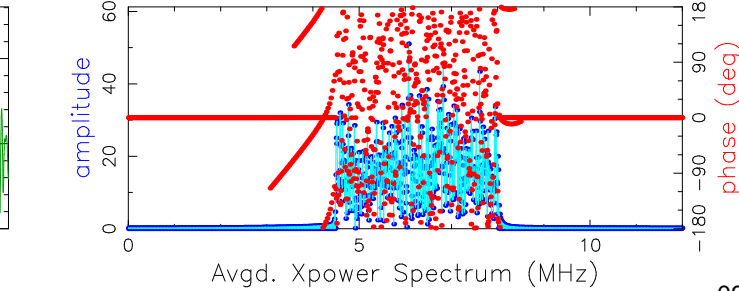
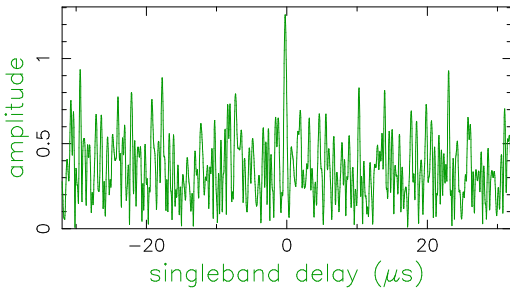
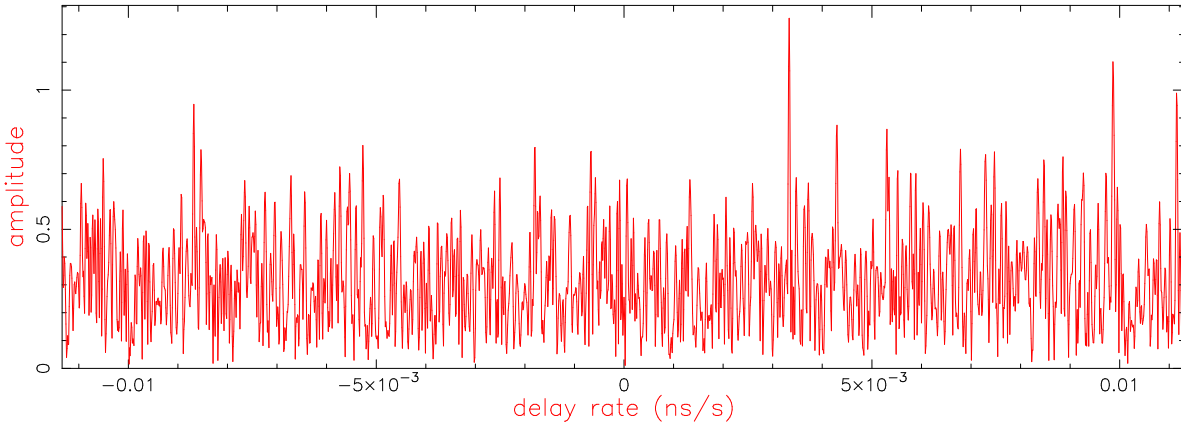
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.26479223608E+04	Apriori delay (usec)	-1.26474678236E+04	Resid mbdelay (usec)	7.23697E-06	+/-	5.0E-03
Sband delay (usec)	-1.26479223650E+04	Apriori clock (usec)	-2.1130874E+03	Resid sbdelay (usec)	-4.54541E-01	+/-	5.0E-03
Phase delay (usec)	-1.26474678267E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.02808E-06	+/-	4.0E-07
Delay rate (us/s)	-4.67150266775E-01	Apriori rate (us/s)	-4.67158086164E-01	Resid rate (us/s)	7.81939E-06	+/-	2.3E-09
Total phase (deg)	344.5	Apriori accel (us/s/s)	-1.12377201359E-05	Resid phase (deg)	102.4	+/-	12.4

ph/seg (deg)	RMS 94.6	Theor. 106.4	Amplitude Search (2048X8)	1.558 +/- 0.169	1.248	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.3	185.7	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.749	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.549	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536	t_cohere infinite	ion window (TEC) 0.00 0.00

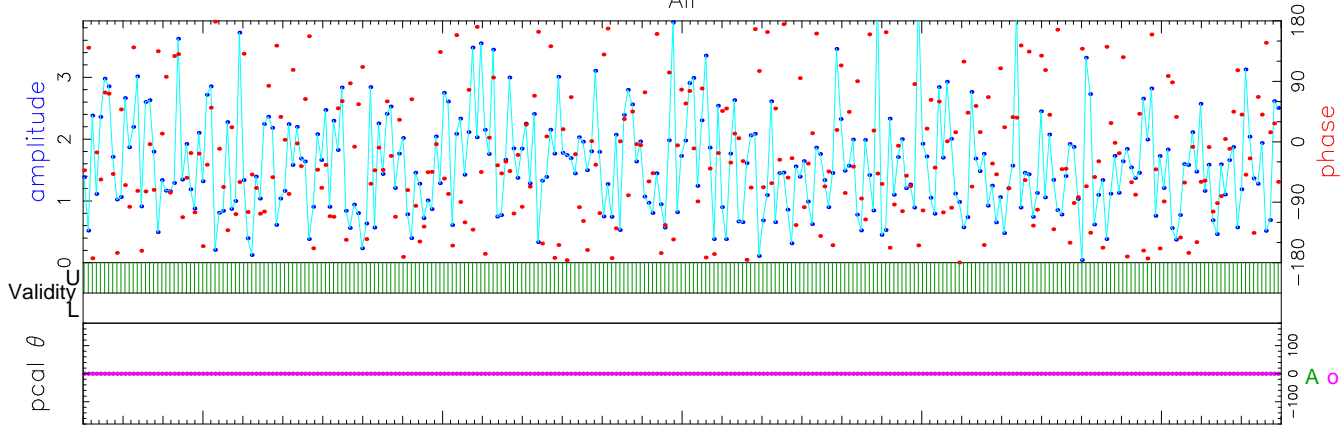
A: az 341.7 el 29.7 pa 159.5 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 3240.779 -8333.999 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/An..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/An.W.69.1T5GU7

Fringe quality 8



SNR 9.1
Int time 299.974
Amp 1.305
Phase 152.2
PFD 1.3e-12
Delays (us)
SBD -0.236349
MBD 0.000004
Fringe rate (Hz)
0.286470
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-50.3
0.4
1525.7
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UR

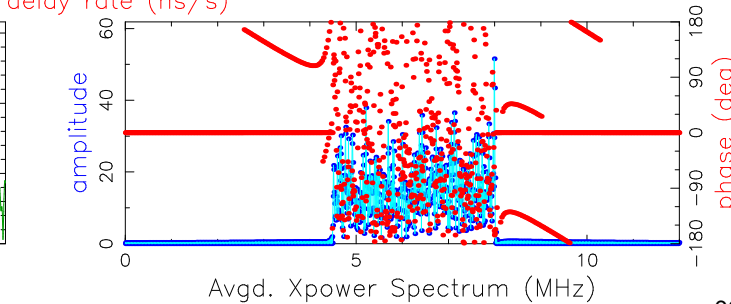
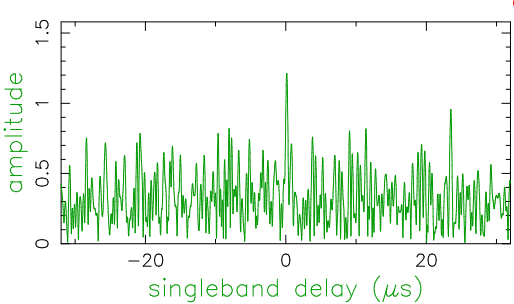
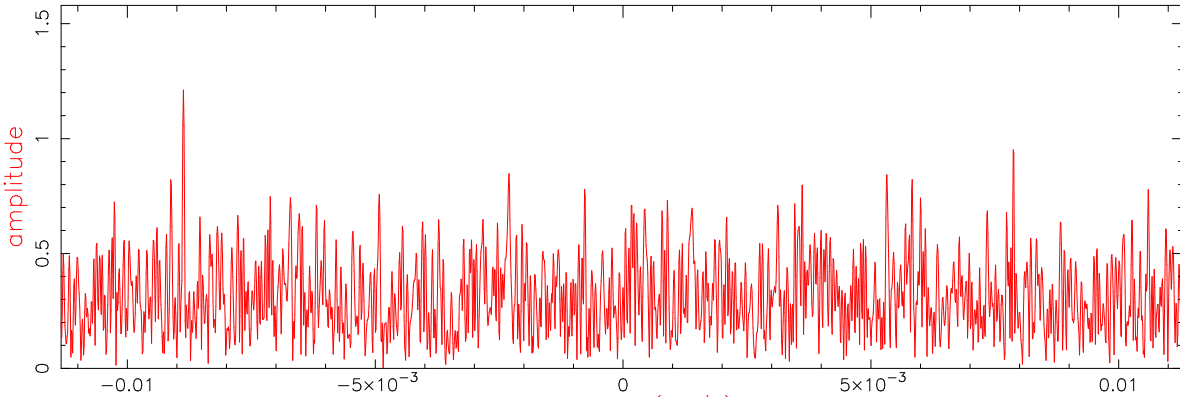
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08923989300E+04	Apriori delay (usec)	-1.08921625815E+04	Resid mbdelay (usec)	4.40549E-06	+/-	5.0E-03
Sband delay (usec)	-1.08923989308E+04	Apriori clock (usec)	-2.1113584E+03	Resid sbdelay (usec)	-2.36349E-01	+/-	5.0E-03
Phase delay (usec)	-1.08921625831E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.62323E-06	+/-	4.0E-07
Delay rate (us/s)	-9.21782942650E-01	Apriori rate (us/s)	-9.21786268279E-01	Resid rate (us/s)	3.32563E-06	+/-	2.3E-09
Total phase (deg)	234.6	Apriori accel (us/s/s)	-1.66701761339E-05	Resid phase (deg)	152.2	+/-	12.6

ph/seg (deg)	RMS 91.1	Theor. 107.4	Amplitude Search (2048X8)	1.305 +/- 0.143	1.226	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.3	187.5	Interp.	0.000	0.600	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.600	1.296	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.296		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

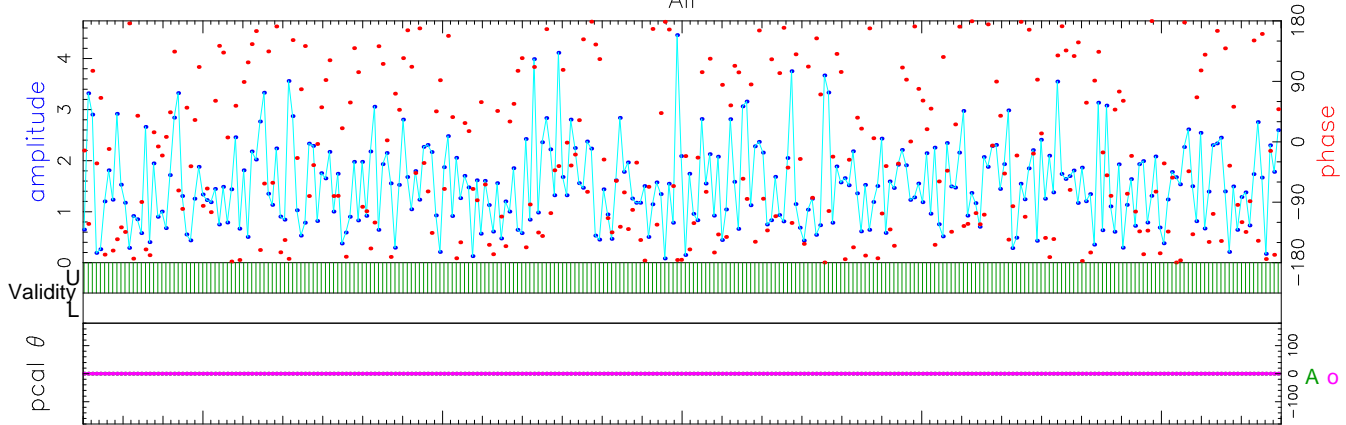
A: az 341.7 el 29.7 pa 159.5 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 6389.973 -8199.179 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ao..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ao.W.33.1T5GU7

Fringe quality 8



SNR 8.8
Int time 299.974
Amp 1.580
Phase -22.8
PFD 2.7e-11
Delays (us)
SBD 0.133792
MBD -0.000006
Fringe rate (Hz)
-0.762919
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-152.3
0.5
1543.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UR

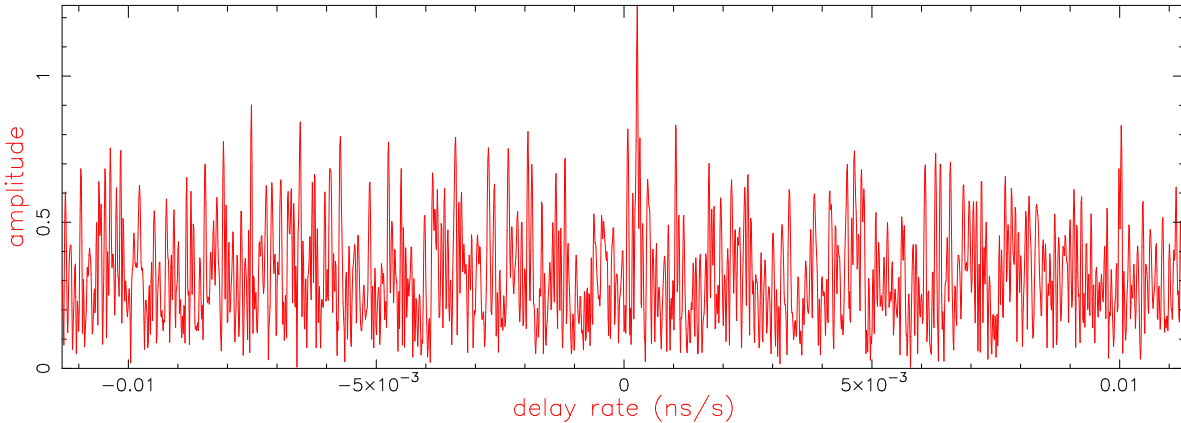
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08920287895E+04	Apriori delay (usec)	-1.08921625815E+04	Resid mbdelay (usec)	-5.94774E-06	+/-	5.2E-03
Sband delay (usec)	-1.08920287895E+04	Apriori clock (usec)	-2.1113584E+03	Resid sbdelay (usec)	1.33792E-01	+/-	5.2E-03
Phase delay (usec)	-1.08921625864E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.91109E-06	+/-	4.2E-07
Delay rate (us/s)	-9.21795125010E-01	Apriori rate (us/s)	-9.21786268279E-01	Resid rate (us/s)	-8.85673E-06	+/-	2.4E-09
Total phase (deg)	-300.5	Apriori accel (us/s/s)	-1.66701761339E-05	Resid phase (deg)	-22.8	+/-	13.0

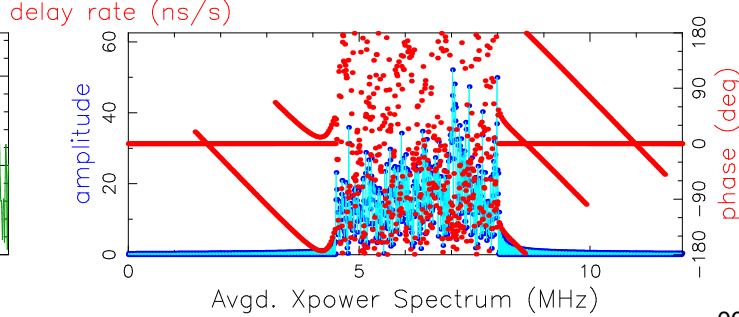
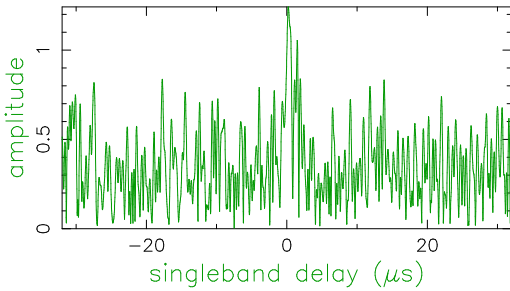
ph/seg (deg)	92.9	Theor.	111.6	Amplitude	1.580 +/- 0.180	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.8	Search (2048X8)	1.202	Search	1.202	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.695	Inc. seg. avg.	0.695	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.568	Inc. frq. avg.	1.568	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

A: az 341.7 el 29.7 pa 159.5 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 6389.973 -8199.179 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ao..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ao.W.45.1T5GU7

Fringe quality 8

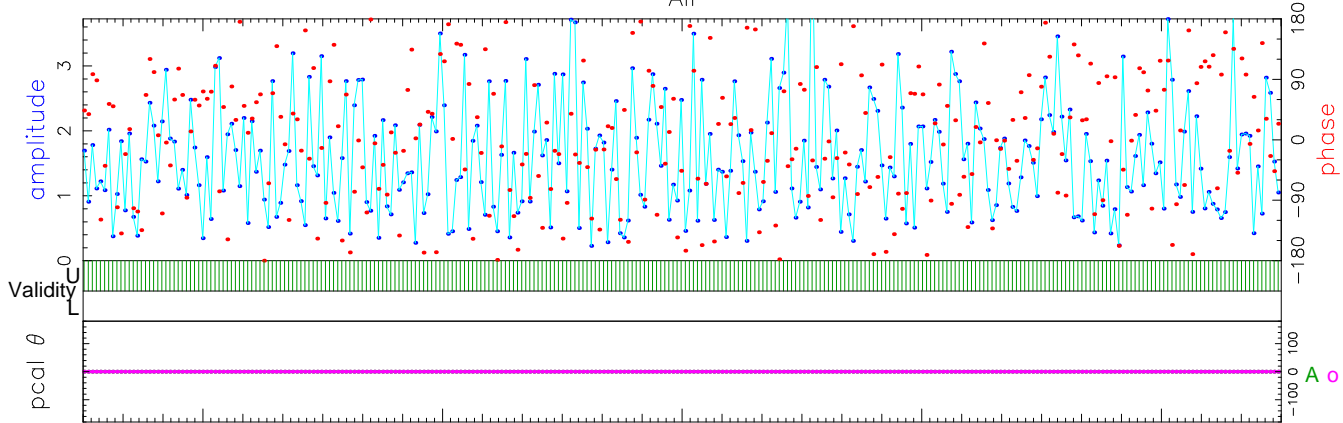


SNR 9.0
Int time 299.974
Amp 1.242
Phase -262.3
PFD 3.9e-12
Delays (us)
SBD 0.215680
MBD 0.000007
Fringe rate (Hz)
0.023222
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051929
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
12.7
0.4
1547.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UL

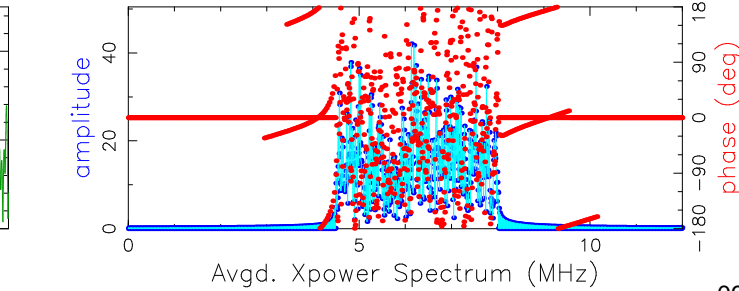
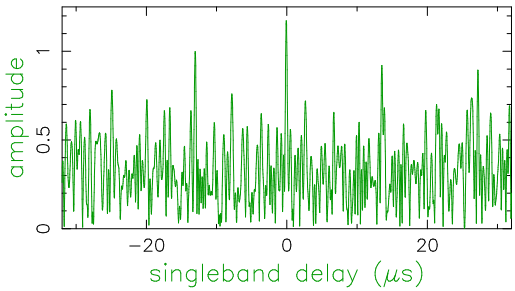
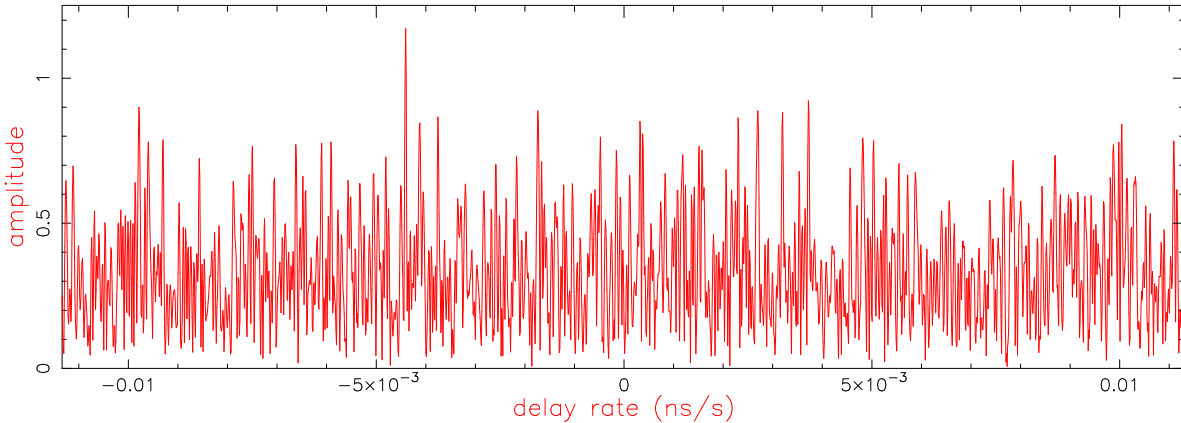
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08919468994E+04	Apriori delay (usec)	-1.08921625815E+04	Resid mbdelay (usec)	7.18494E-06	+/-	5.1E-03
Sband delay (usec)	-1.08919469015E+04	Apriori clock (usec)	-2.1113584E+03	Resid sbdelay (usec)	2.15680E-01	+/-	5.1E-03
Phase delay (usec)	-1.08921625811E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.09073E-07	+/-	4.1E-07
Delay rate (us/s)	-9.21785998692E-01	Apriori rate (us/s)	-9.21786268279E-01	Resid rate (us/s)	2.69587E-07	+/-	2.4E-09
Total phase (deg)	-179.9	Apriori accel (us/s/s)	-1.66701761339E-05	Resid phase (deg)	-262.3	+/-	12.7

ph/seg (deg)	RMS 92.7	Theor. 108.9	Amplitude Search (2048X8)	1.242 +/- 0.138	1.218	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	75.3	190.1	Interp.	0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.567	0.567	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.234	1.234	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00	

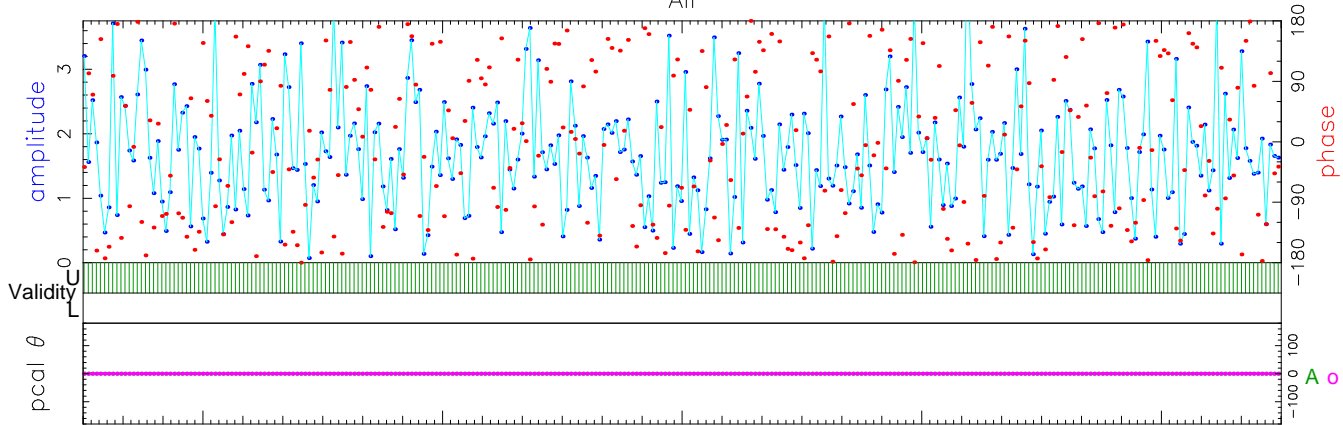
A: az 341.7 el 29.7 pa 159.5 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 6389.973 -8199.179 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ao..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ao.W.6.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.251
Phase 30.4
PFD 2.8e-10
Delays (us)
SBD -0.075239
MBD -0.000006
Fringe rate (Hz)
-0.379305
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-165.8
0.4
1533.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UL

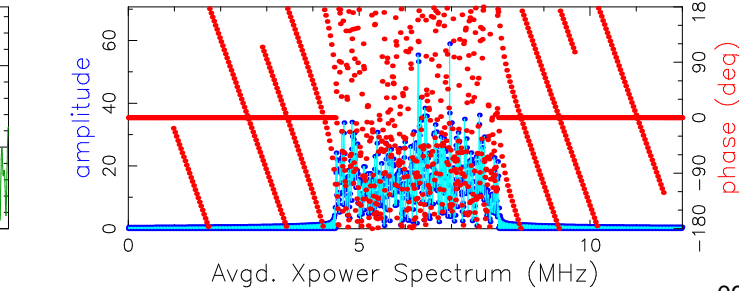
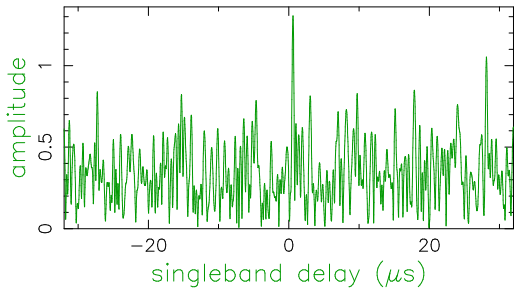
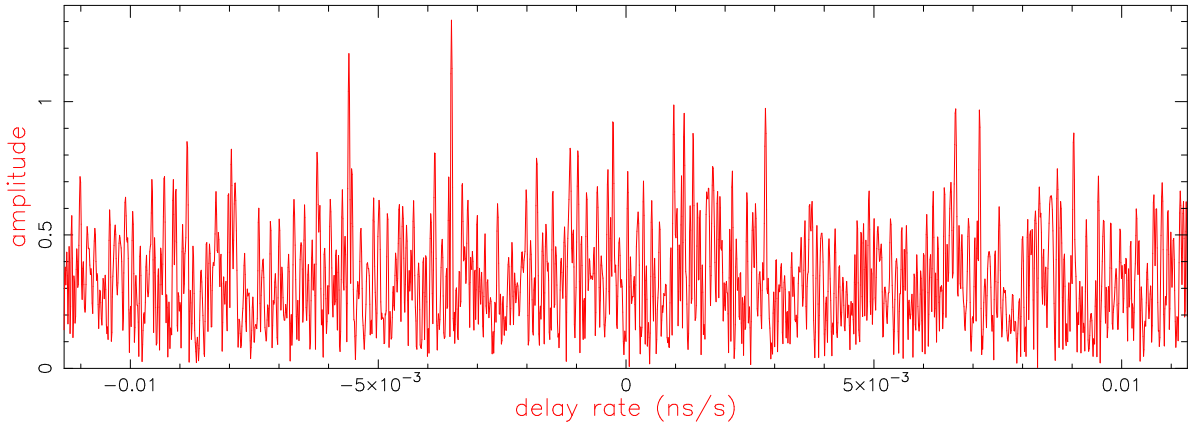
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08922378195E+04	Apriori delay (usec)	-1.08921625815E+04	Resid mbdelay (usec)	-6.28416E-06	+/-	5.4E-03
Sband delay (usec)	-1.08922378202E+04	Apriori clock (usec)	-2.1113584E+03	Resid sbdelay (usec)	-7.52387E-02	+/-	5.4E-03
Phase delay (usec)	-1.08921625869E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-5.34795E-06	+/-	4.3E-07
Delay rate (us/s)	-9.21790671639E-01	Apriori rate (us/s)	-9.21786268279E-01	Resid rate (us/s)	-4.40336E-06	+/-	2.5E-09
Total phase (deg)	112.8	Apriori accel (us/s/s)	-1.66701761339E-05	Resid phase (deg)	30.4	+/-	13.5

ph/seg (deg)	RMS 94.2	Theor. 115.2	Amplitude 1.251 +/- 0.147	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.5	201.0	Search (2048X8) 1.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.7	Inc. seg. avg. 0.599	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.238	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

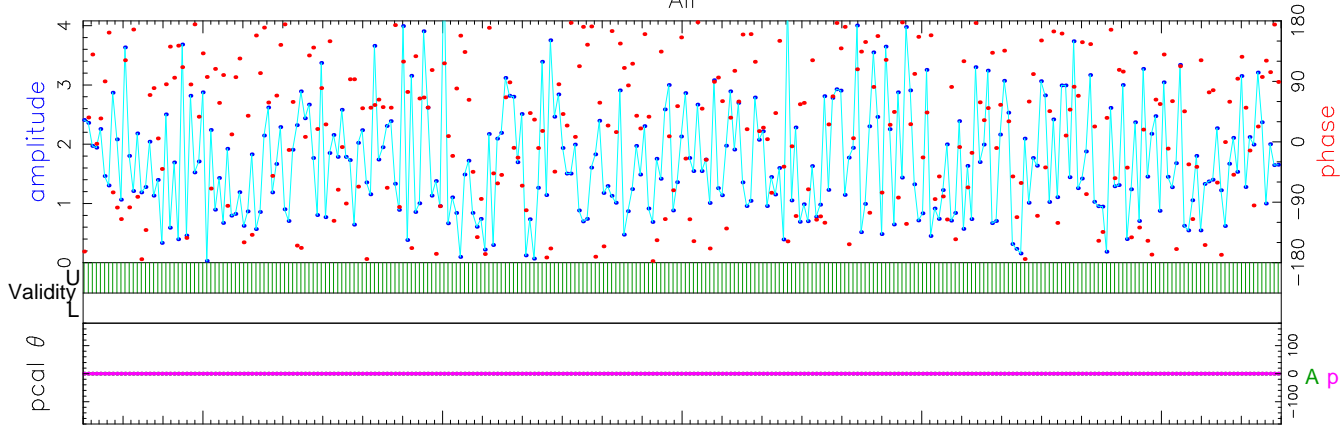
A: az 341.7 el 29.7 pa 159.5 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 6389.973 -8199.179 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ao..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ao.W.71.1T5GU7

Fringe quality 8



SNR 9.5
Int time 299.973
Amp 1.361
Phase -91.1
PFD 4.8e-14
Delays (us)
SBD 0.592199
MBD -0.000005
Fringe rate (Hz)
-0.302586
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



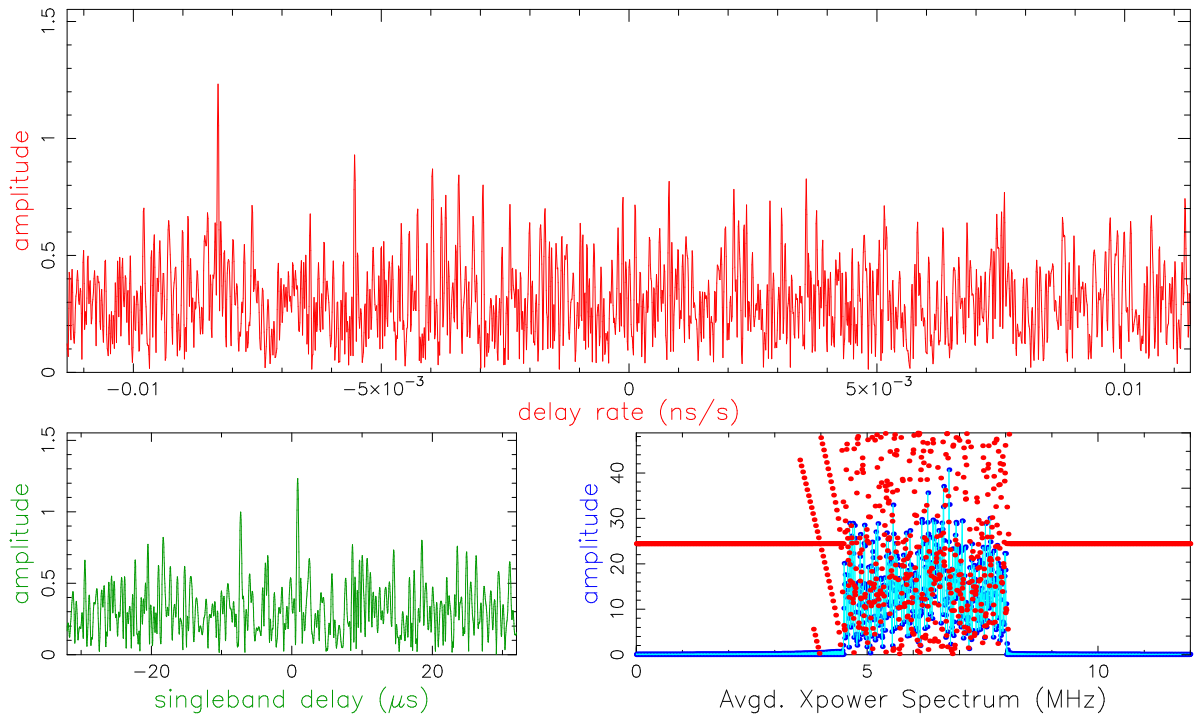
86227.00
96.7
0.4
1565.4
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p W03UR

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)	-1.19530400389E+04	Apriori delay (usec)	-1.19536322383E+04	Resid mbdelay (usec)	-4.90426E-06	+/-	4.8E-03
Sband delay (usec)	-1.19530400396E+04	Apriori clock (usec)	-2.1131345E+03	Resid sbdelay (usec)	5.92199E-01	+/-	4.8E-03
Phase delay (usec)	-1.19536322351E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.11895E-06	+/-	3.9E-07
Delay rate (us/s)	-7.71901220922E-01	Apriori rate (us/s)	-7.71897708201E-01	Resid rate (us/s)	-3.51272E-06	+/-	2.2E-09
Total phase (deg)	-92.6	Apriori accel (us/s/s)	-8.39659983492E-06	Resid phase (deg)	-91.1	+/-	12.1

ph/seg (deg)	RMS 93.0	Theor. 103.4	Amplitude Search (2048X8)	1.361 +/- 0.144	1.282	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	78.6	180.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.681	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000	
amp/frq (%)	70.7	10.5	Inc. frq. avg.	1.351	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011	
				nlags: 1536 t_cohere infinite				ion window (TEC)	0.00 0.00

A: az 341.7 el 29.7 pa 159.5 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 5358.649 -7445.193 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ap..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ap.W.11.1T5GU7

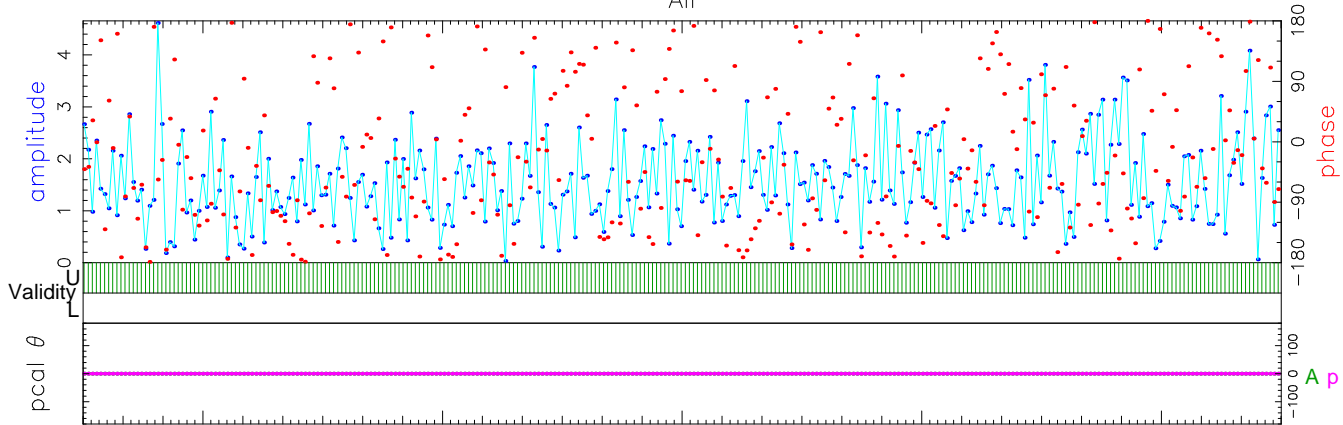


Fringe quality 8

SNR 8.9
Int time 299.973
Amp 1.552
Phase -281.9
PFD 7.0e-12
Delays (us)
SBD 0.833817
MBD -0.000005
Fringe rate (Hz)
-0.713769
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-86.6
0.5
1577.0
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UR

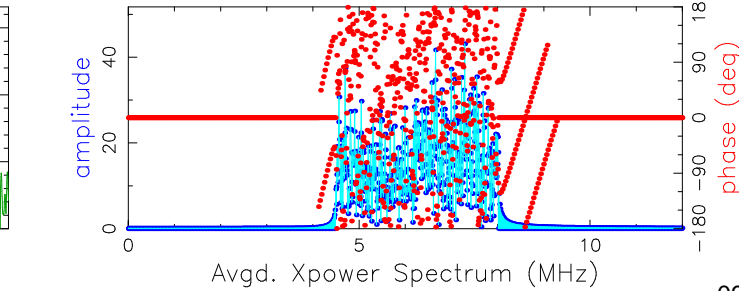
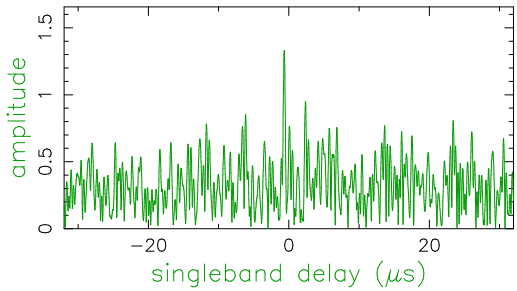
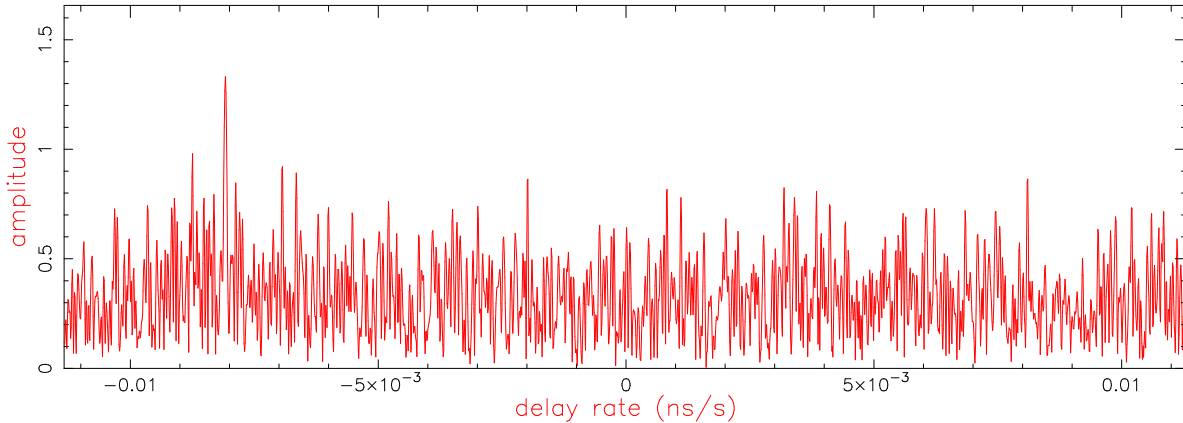
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19527984212E+04	Apriori delay (usec)	-1.19536322383E+04	Resid mbdelay (usec)	-5.28790E-06	+/-	5.1E-03
Sband delay (usec)	-1.19527984209E+04	Apriori clock (usec)	-2.1131345E+03	Resid sbdelay (usec)	8.33817E-01	+/-	5.1E-03
Phase delay (usec)	-1.19536322411E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.79299E-06	+/-	4.1E-07
Delay rate (us/s)	-7.71905994349E-01	Apriori rate (us/s)	-7.71897708201E-01	Resid rate (us/s)	-8.28615E-06	+/-	2.4E-09
Total phase (deg)	-283.4	Apriori accel (us/s/s)	-8.39659983492E-06	Resid phase (deg)	-281.9	+/-	12.8

ph/seg (deg)	RMS 94.0	Theor. 109.7	Amplitude Search (2048X8)	1.196	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.3	191.5	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	6.4	Inc. seg. avg.	0.693	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.542	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

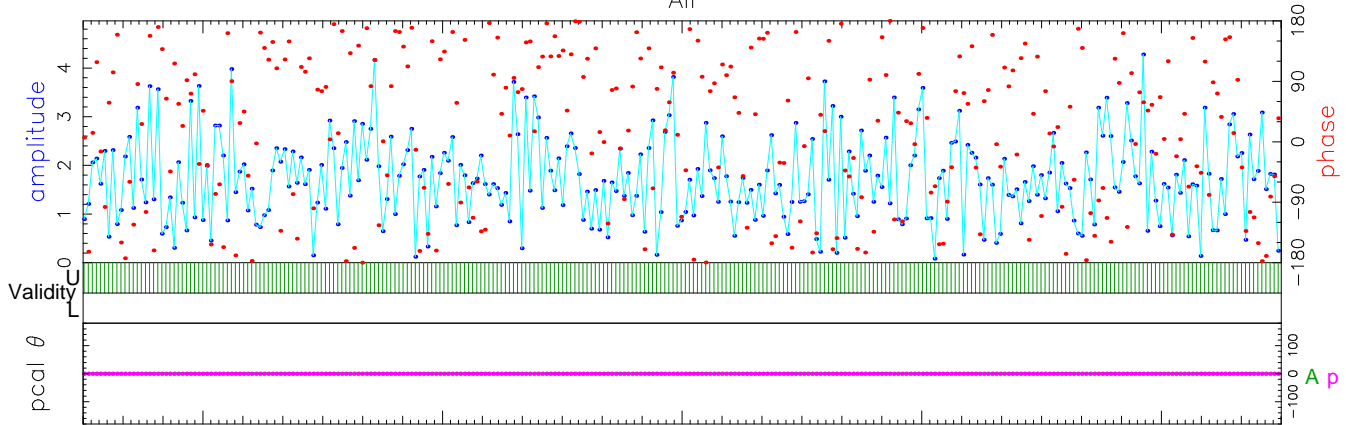
A: az 341.7 el 29.7 pa 159.5 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 5358.649 -7445.193 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ap..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ap.W.19.1T5GU7

Fringe quality 8



SNR 9.7
Int time 299.973
Amp 1.657
Phase 69.3
PFD 8.6e-15
Delays (us)
SBD -0.653151
MBD -0.000007
Fringe rate (Hz)
-0.695361
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
132.7
0.5
1505.7
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p W03UL

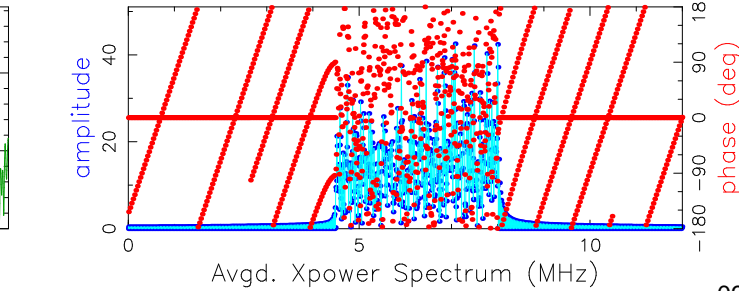
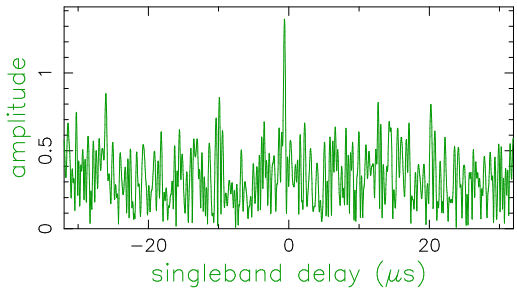
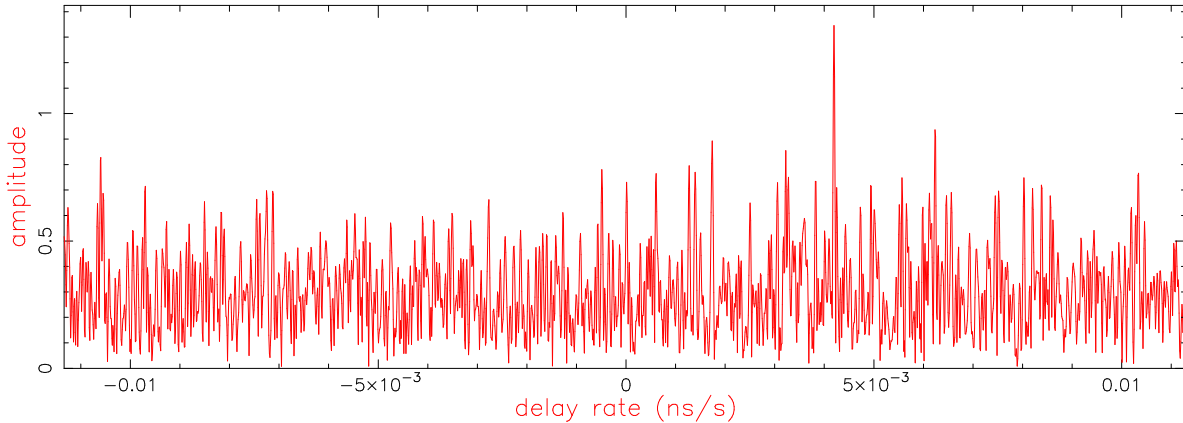
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19542853936E+04	Apriori delay (usec)	-1.19536322383E+04	Resid mbdelay (usec)	-7.24430E-06	+/-	4.8E-03
Sband delay (usec)	-1.19542853889E+04	Apriori clock (usec)	-2.1131345E+03	Resid sbdelay (usec)	-6.53151E-01	+/-	4.8E-03
Phase delay (usec)	-1.19536322340E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.28075E-06	+/-	3.8E-07
Delay rate (us/s)	-7.71905780652E-01	Apriori rate (us/s)	-7.71897708201E-01	Resid rate (us/s)	-8.07245E-06	+/-	2.2E-09
Total phase (deg)	67.9	Apriori accel (us/s/s)	-8.39659983492E-06	Resid phase (deg)	69.3	+/-	11.9

ph/seg (deg)	RMS 92.5	Theor. 101.5	Amplitude Search (2048X8)	1.657 +/- 0.171	1.328	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.0	177.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.834	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	10.4	Inc. frq. avg.	1.646	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
					nlags: 1536	t_cohere infinite	ion window (TEC)	0.00 0.00

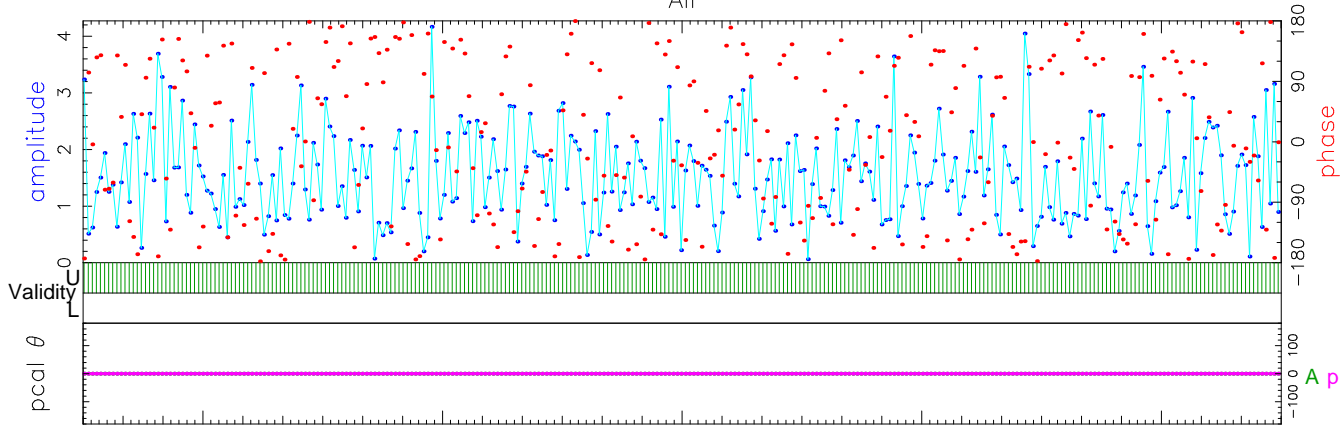
A: az 341.7 el 29.7 pa 159.5 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 5358.649 -7445.193 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ap..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ap.W.24.1T5GU7

Fringe quality 8



SNR 9.8
Int time 299.973
Amp 1.425
Phase 147.0
PFD 3.3e-15
Delays (us)
SBD -0.620299
MBD 0.000005
Fringe rate (Hz)
0.360647
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051929
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



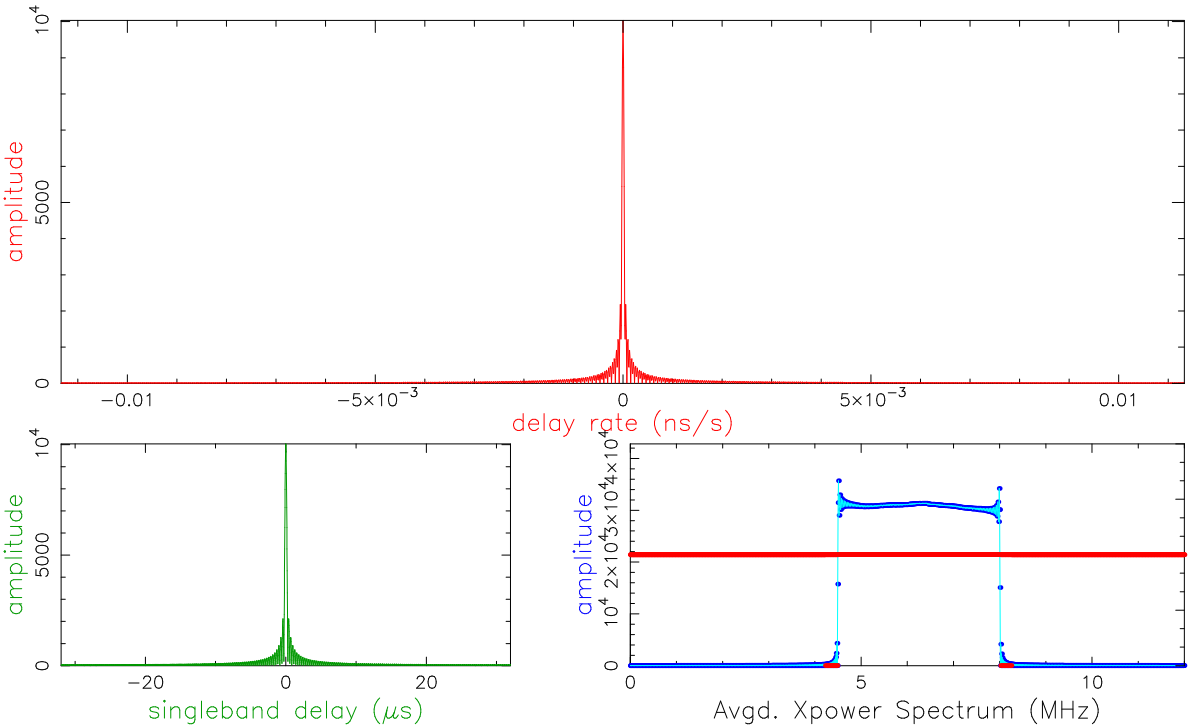
86227.00
159.1
0.4
1507.2
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UL

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)	-1.19542525381E+04	Apriori delay (usec)	-1.19536322383E+04	Resid mbdelay (usec)	4.70730E-06	+/-	4.7E-03
Sband delay (usec)	-1.19542525369E+04	Apriori clock (usec)	-2.1131345E+03	Resid sbdelay (usec)	-6.20299E-01	+/-	4.7E-03
Phase delay (usec)	-1.19536322331E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.12935E-06	+/-	3.8E-07
Delay rate (us/s)	-7.71893521443E-01	Apriori rate (us/s)	-7.71897708201E-01	Resid rate (us/s)	4.18676E-06	+/-	2.2E-09
Total phase (deg)	145.5	Apriori accel (us/s/s)	-8.39659983492E-06	Resid phase (deg)	147.0	+/-	11.7

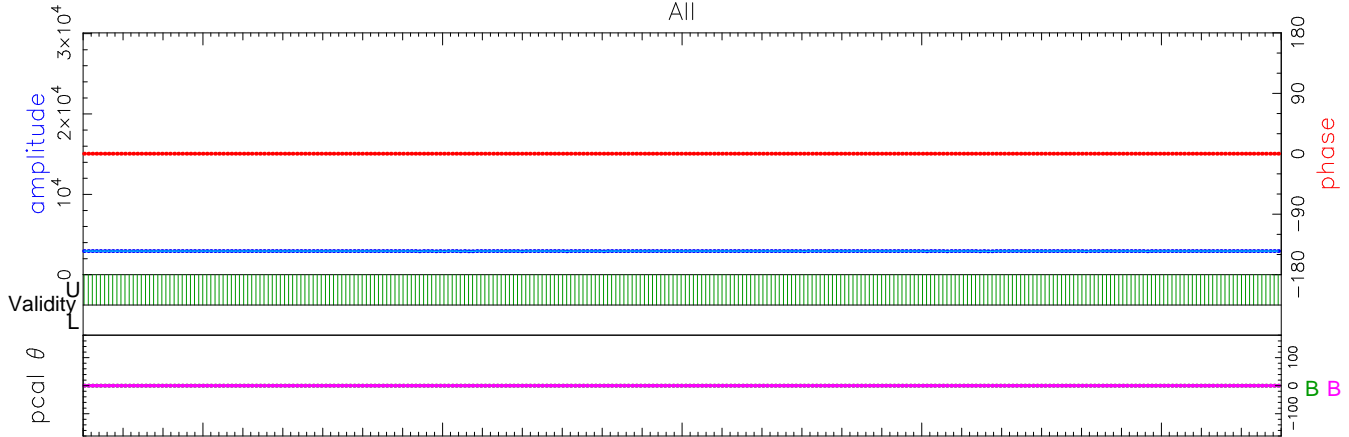
ph/seg (deg)	RMS 92.8	Theor. 100.5	Amplitude Search (2048X8)	1.425 +/- 0.146	1.330	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	62.0	175.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.645	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	10.2	Inc. frq. avg.	1.417	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
					nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00	

A: az 341.7 el 29.7 pa 159.5 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 5358.649 -7445.193 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Ap..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Ap.W.5.1T5GU7



Fringe quality 5
SNR 72760.6
Int time 299.980
Amp 10034.518
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
0.2
2939.8
1537.0
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UL

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)	4.70850197734E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

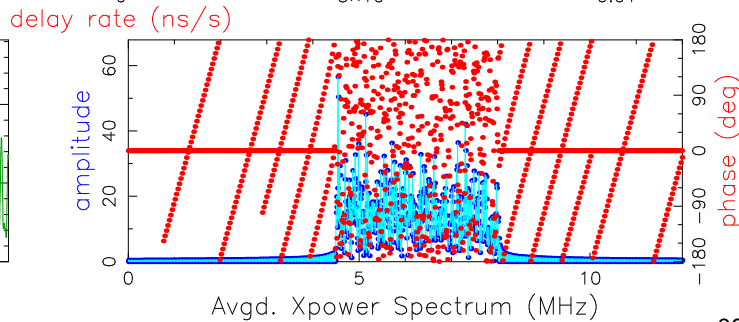
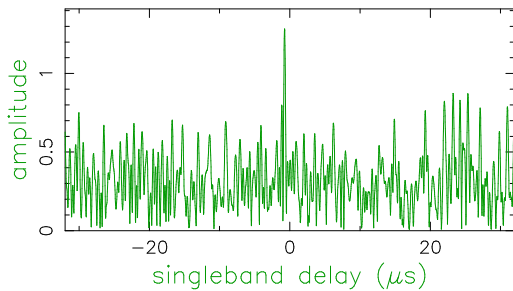
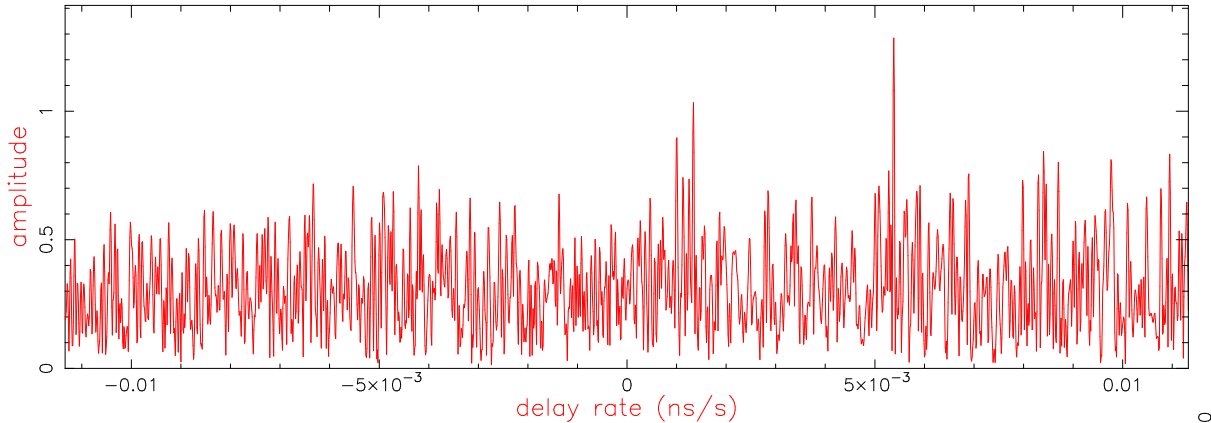
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10034.519 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10034.518	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2939.800	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10034.518	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

B: az 296.1 el 23.6 pa 43.8 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/BB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/BB.W.13.1T5GU7

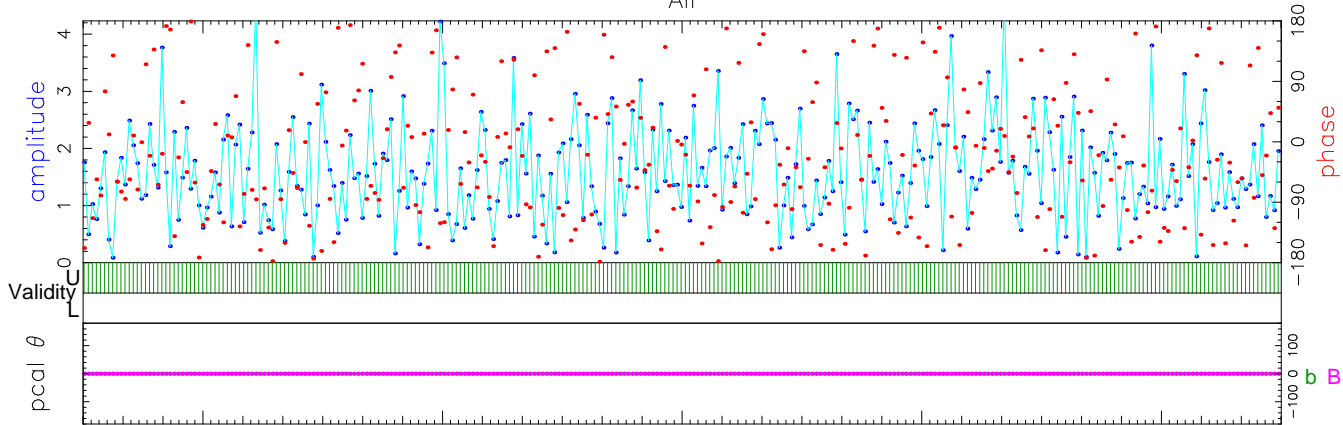
Fringe quality 8

SNR 9.3
Int time 299.958
Amp 1.411
Phase 300.4
PFD 2.3E-13
Delays (us)
SBD -0.747369
MBD 0.000004
Fringe rate (Hz)
0.462847
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



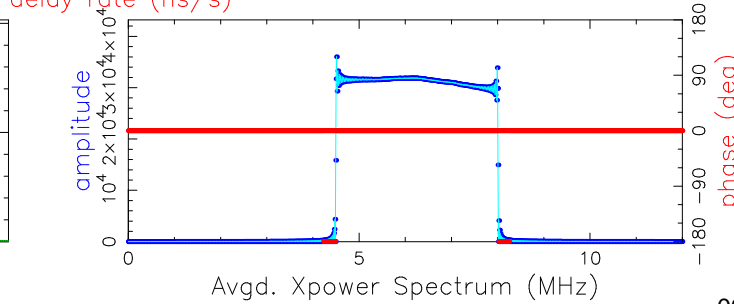
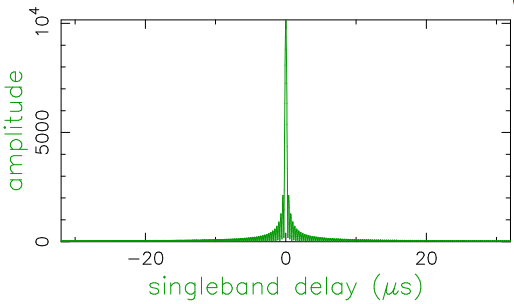
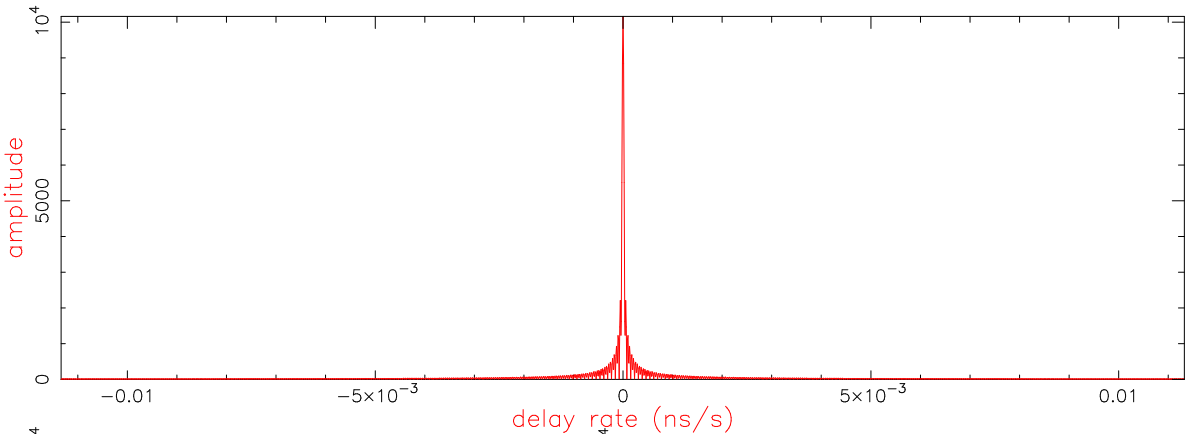
86227.00
-67.4
0.4
1501.1
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UL
B W03UL

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)	1.05674764504E+04	Apriori delay (usec)	1.05682238221E+04	Resid mbdelay (usec)	4.40720E-06	+/-	4.9E-03
Sband delay (usec)	1.05674764528E+04	Apriori clock (usec)	1.9077257E+01	Resid sbdelay (usec)	-7.47369E-01	+/-	4.9E-03
Phase delay (usec)	1.05682238199E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.17253E-06	+/-	4.0E-07
Delay rate (us/s)	1.26475000366E+00	Apriori rate (us/s)	1.26474463047E+00	Resid rate (us/s)	5.37319E-06	+/-	2.3E-09
Total phase (deg)	313.4	Apriori accel (us/s/s)	-5.78351079244E-05	Resid phase (deg)	300.4	+/-	12.3

ph/seg (deg)	RMS 91.8	Theor. 105.3	Amplitude Search (2048X8)	1.411 +/- 0.152	1.261	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.8	183.8	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.653	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.403	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 107.5 el 62.2 pa -50.8 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) -8847.546 -3259.002 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bB.W.15.1T5GU7

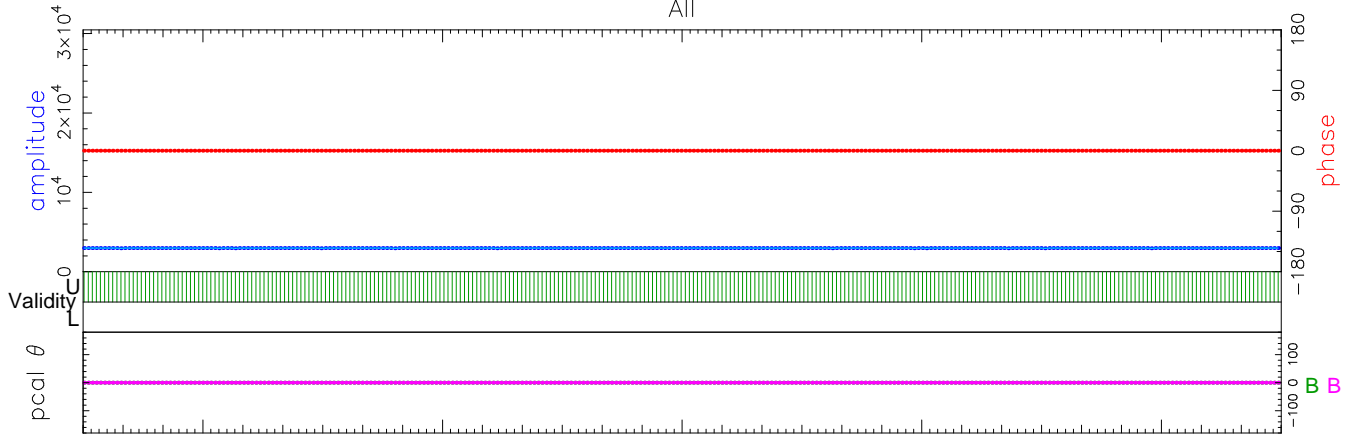


Fringe quality 5

SNR 73665.1
Int time 299.980
Amp 10159.267
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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

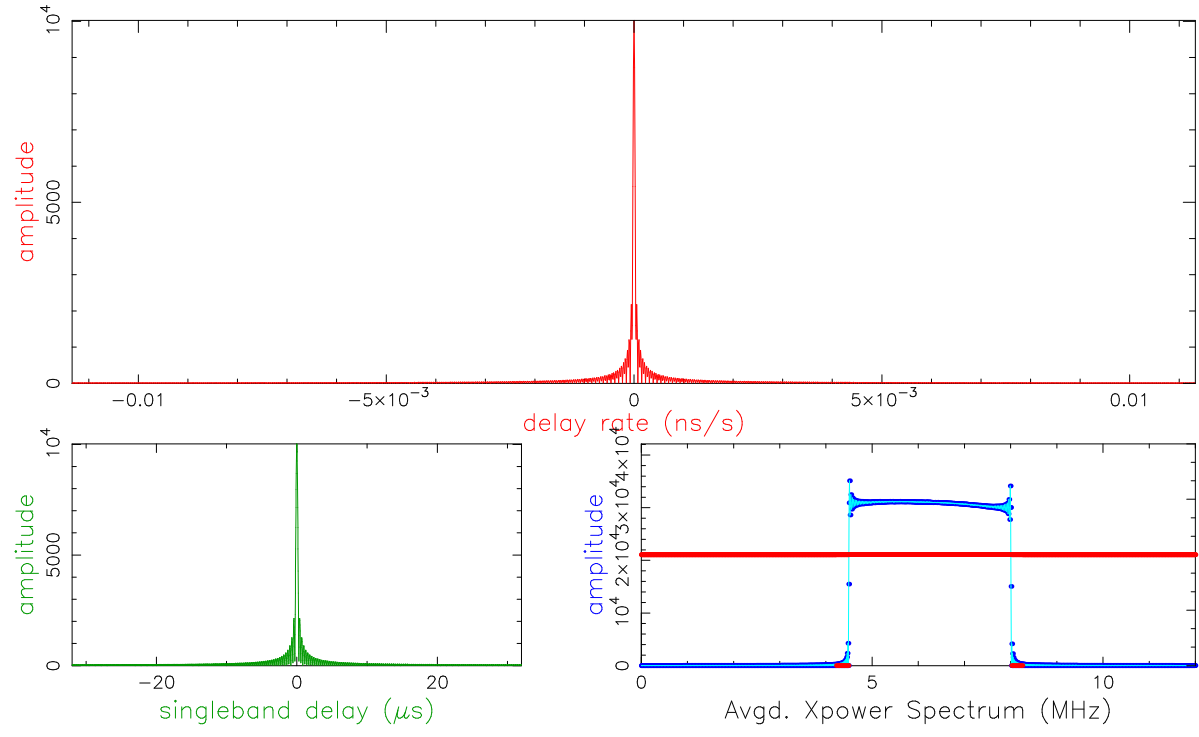


86227.00
0.2
2976.3
1537.0
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UR
B W03UR

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

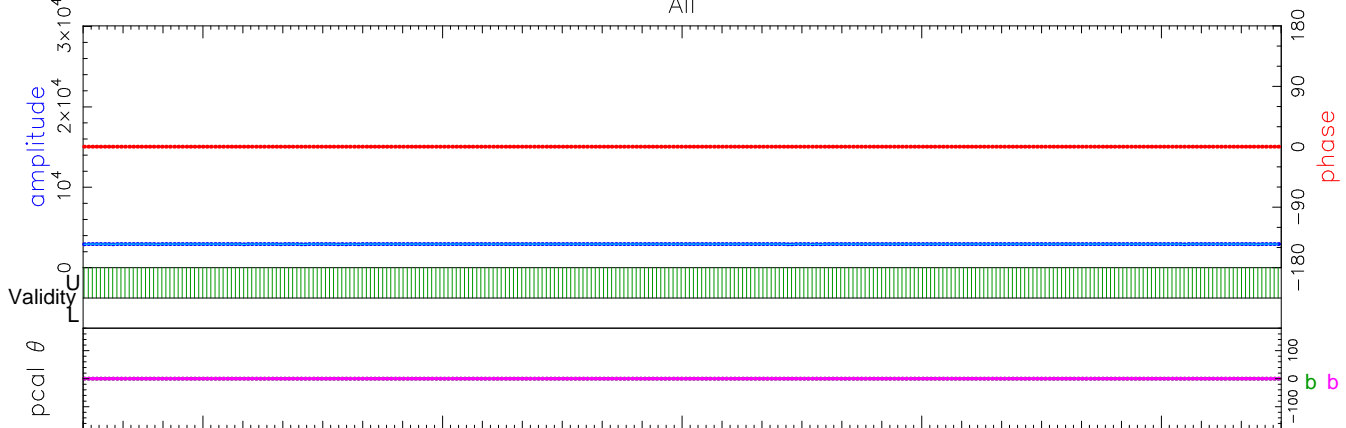
Group delay (usec)(sbd)	5.68276757860E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.91453E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	6.38554791832E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.38555E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10159.268 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10159.267 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2976.347 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
B: az 296.1 el 23.6 pa 43.8 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/BB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/BB.W.18.1T5GU7 simultaneous interpolator



Fringe quality 5
SNR 72684.0
Int time 299.958
Amp 10024.339
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



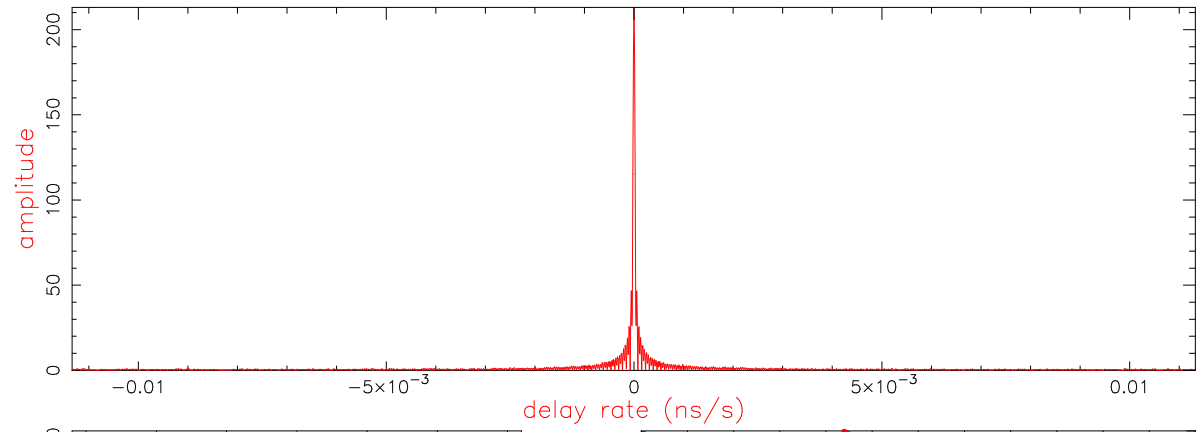
86227.00
0.2
2936.8
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UR
b W03UR

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)	4.34900901110E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24829E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.82552408244E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82552E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-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	10024.339 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	10024.339	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2936.818	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	10024.339	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

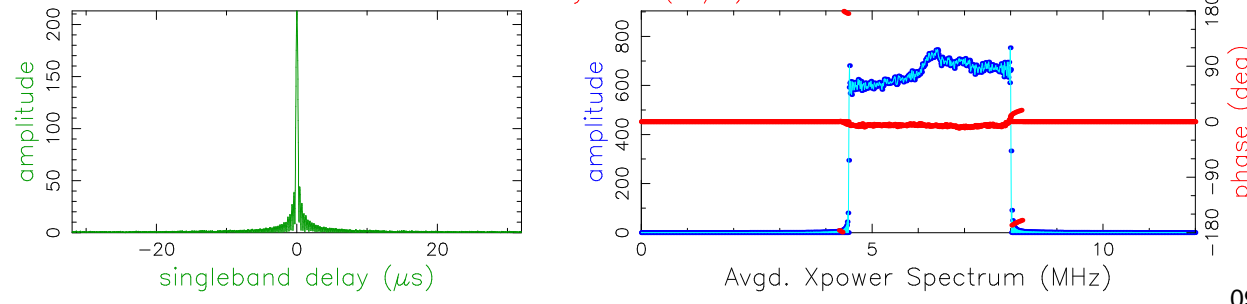
b: az 107.5 el 62.2 pa -50.8 b: az 107.5 el 62.2 pa -50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bb..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bb.W.22.1T5GU7



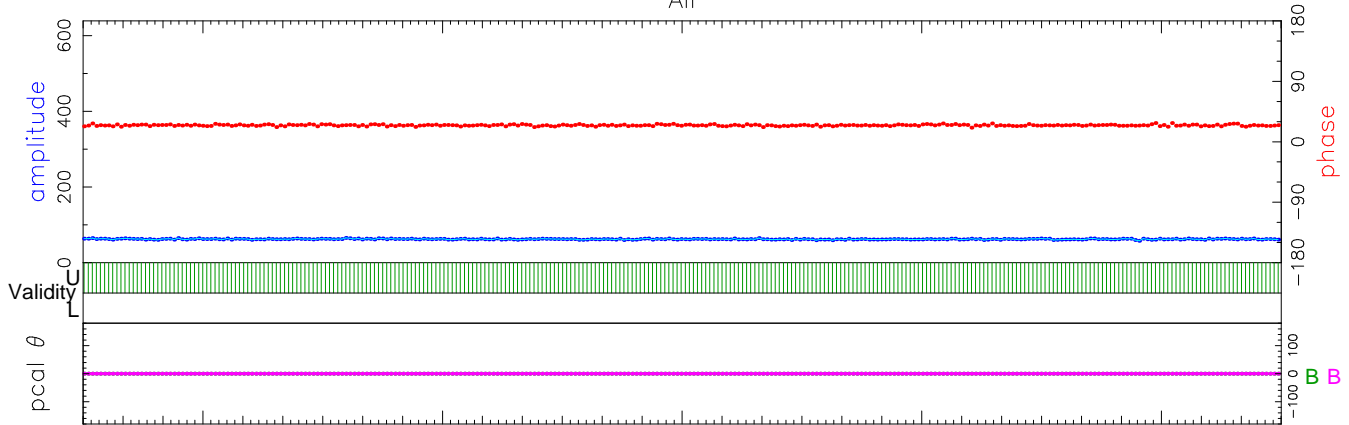
Fringe quality 5

SNR 1545.1
Int time 299.980
Amp 213.080
Phase -68.4
PFD 0.0e+00
Delays (us)
SBD 0.014457
MBD -0.000005
Fringe rate (Hz)
0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



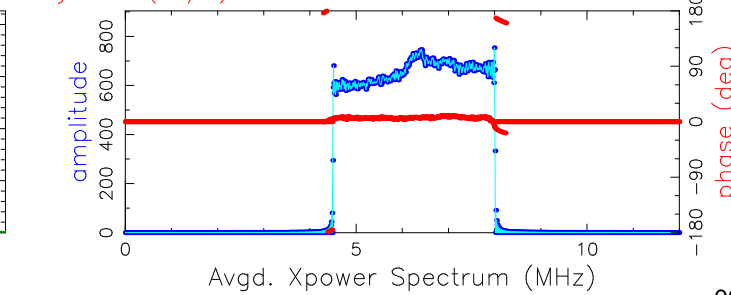
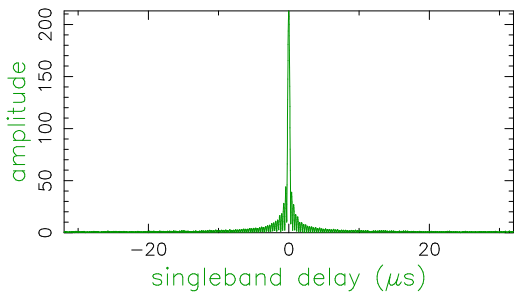
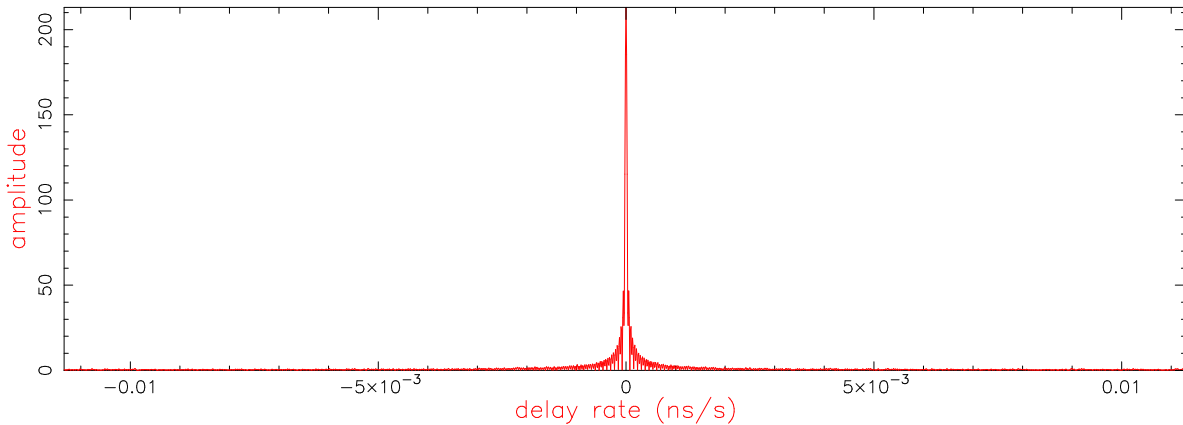
Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
24.6
62.4
1537.7
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UR

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)	1.44564267805E-02	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.40072E-06	+/-	3.0E-05
Sband delay (usec)	1.44573333333E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.44573E-02	+/-	3.0E-05
Phase delay (usec)	7.92111506794E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.92112E-07	+/-	2.4E-09
Delay rate (us/s)	9.21124905460E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	9.21125E-12	+/-	1.4E-11
Total phase (deg)	-68.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-68.4	+/-	0.1
ph/seg (deg)	1.1	Theor.	Amplitude	213.080 +/- 0.138	Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5		
amp/seg (%)	70.7	1.1	Search (2048X8)	212.909	Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000		
amp/frq (%)	70.7	0.1	Inc. seg. avg.	62.383	Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011		
B: az 296.1 el 23.6 pa 43.8				u, v (fr/asec) 0.000 0.000	Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00		
Control file: cf_1234_gmva_line				Input file: /Exps/c211d/v1/LINES1/1234/No0015/BB..1T5GU7	Output file: /Exps/c211d/v1/LINES1/1234/No0015/BB.W.23.1T5GU7		

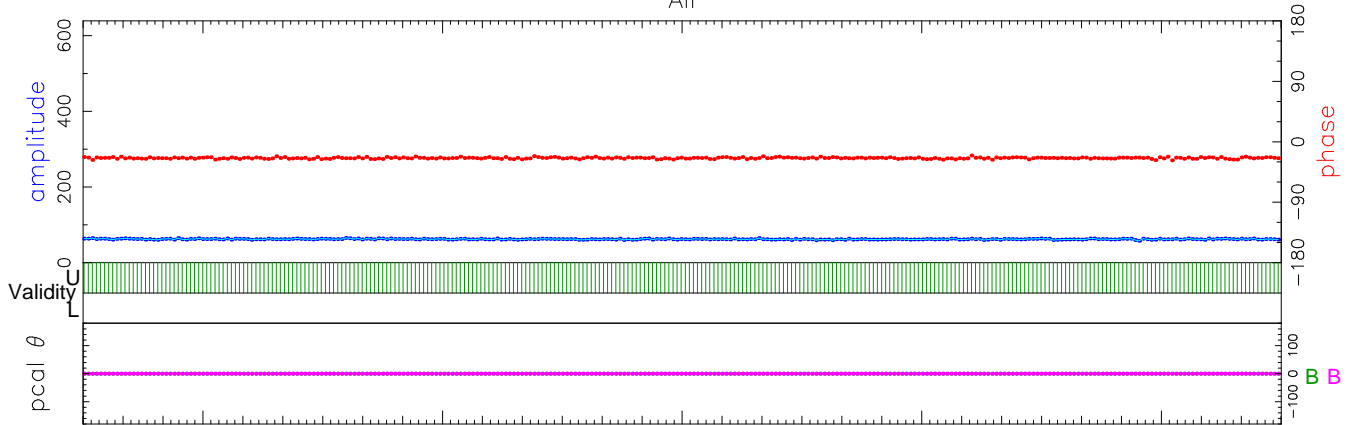


Fringe quality 5

SNR 1545.1
Int time 299.980
Amp 213.080
Phase 68.4
PFD 0.0e+00
Delays (us)
SBD -0.014457
MBD -0.000006
Fringe rate (Hz)
-0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-24.2
62.4
1536.3
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UR
B W03UL

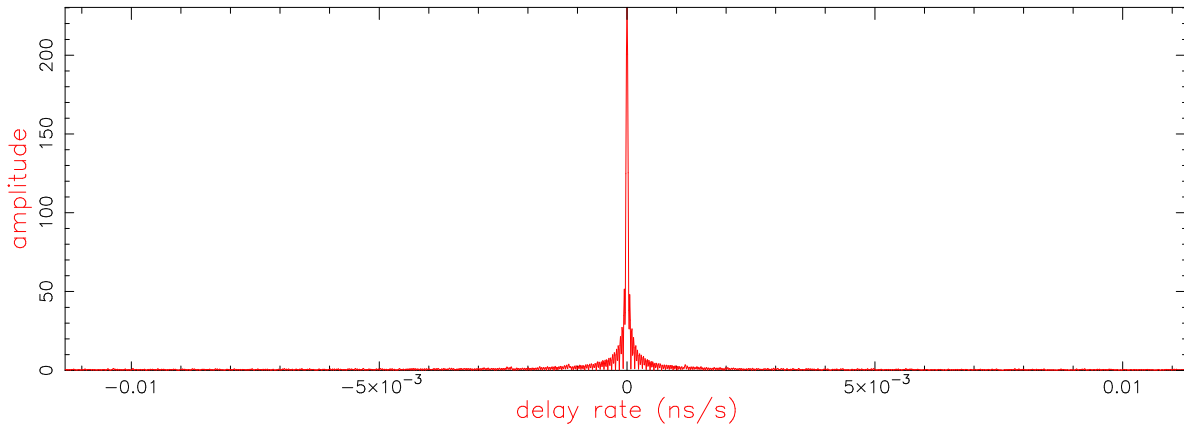
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.44558776253E-02	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.64742E-06	+/-	3.0E-05
Sband delay (usec)	-1.44573333333E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.44573E-02	+/-	3.0E-05
Phase delay (usec)	-7.80183517133E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.80184E-07	+/-	2.4E-09
Delay rate (us/s)	-9.21124905460E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-9.21125E-12	+/-	1.4E-11
Total phase (deg)	68.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	68.4	+/-	0.1

ph/seg (deg)	RMS 1.1	Theor. 0.6	Amplitude	213.080 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7	1.1	Search (2048X8)	212.909	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	0.1	Inc. seg. avg.	62.383	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	212.909	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

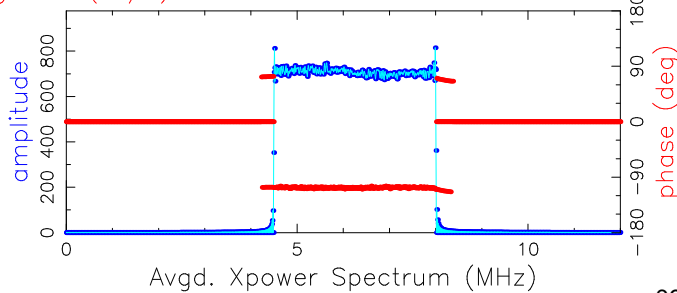
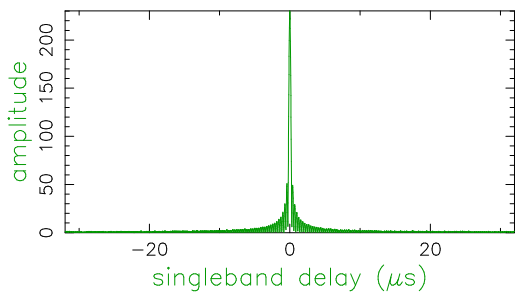
B: az 296.1 el 23.6 pa 43.8 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/BB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/BB.W.30.1T5GU7



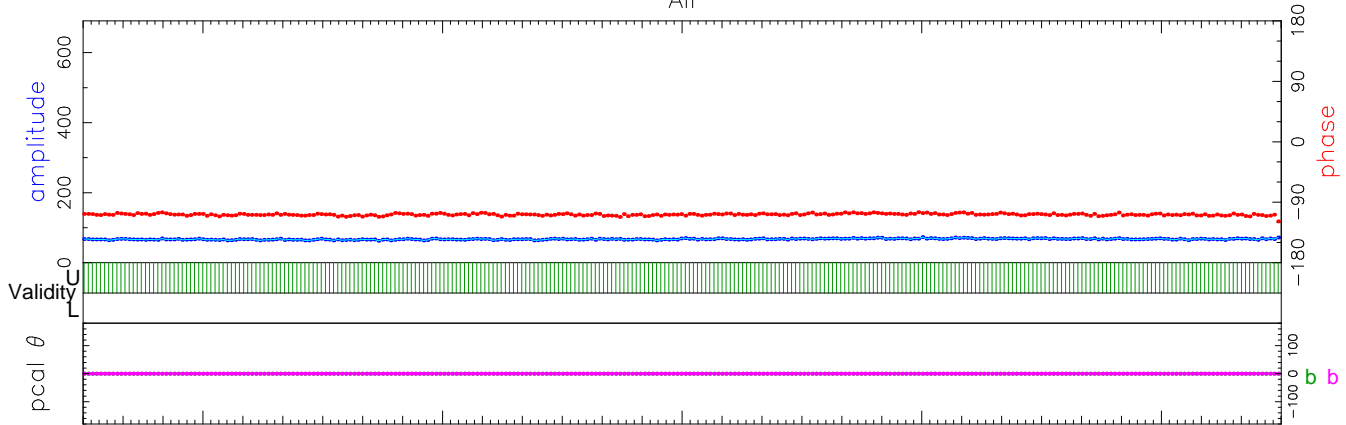
Fringe quality 5

SNR 1669.9
Int time 299.958
Amp 230.302
Phase -91.1
PFD 0.0e+00
Delays (us)
SBD -0.000551
MBD -0.000005
Fringe rate (Hz)
0.000016
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



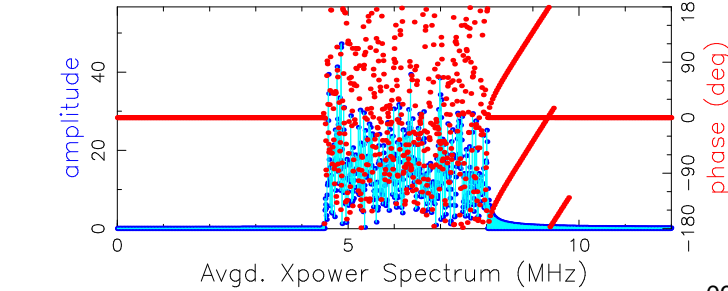
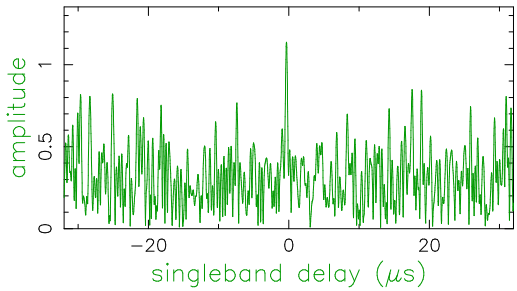
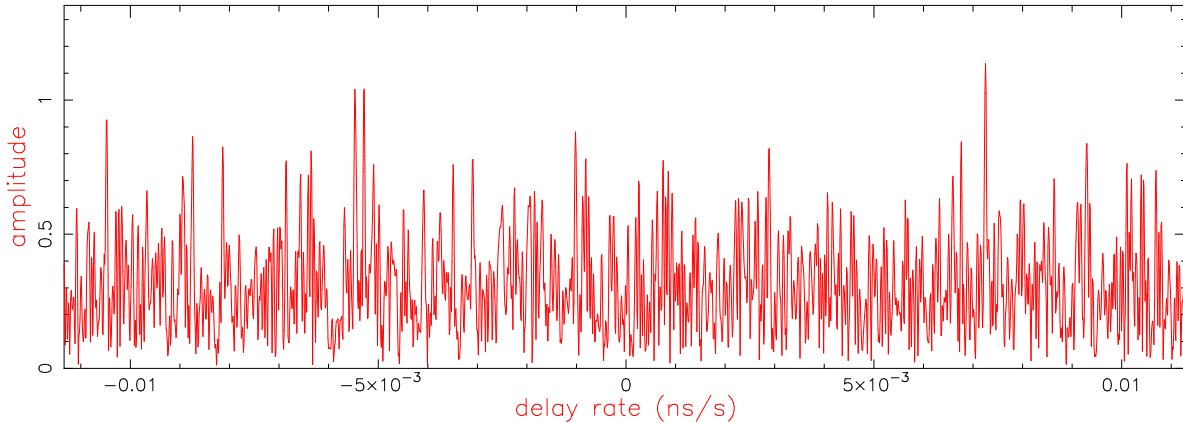
86227.00
-108.2
67.5
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UR

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)	-5.49840861911E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.76797E-06	+/- 2.8E-05
Sband delay (usec)	-5.50666666667E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.50667E-04	+/- 2.8E-05
Phase delay (usec)	-3.48856512385E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.48857E-06	+/- 2.2E-09
Delay rate (us/s)	1.82099308233E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.82099E-10	+/- 1.3E-11
Total phase (deg)	-91.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-91.1	+/- 0.1

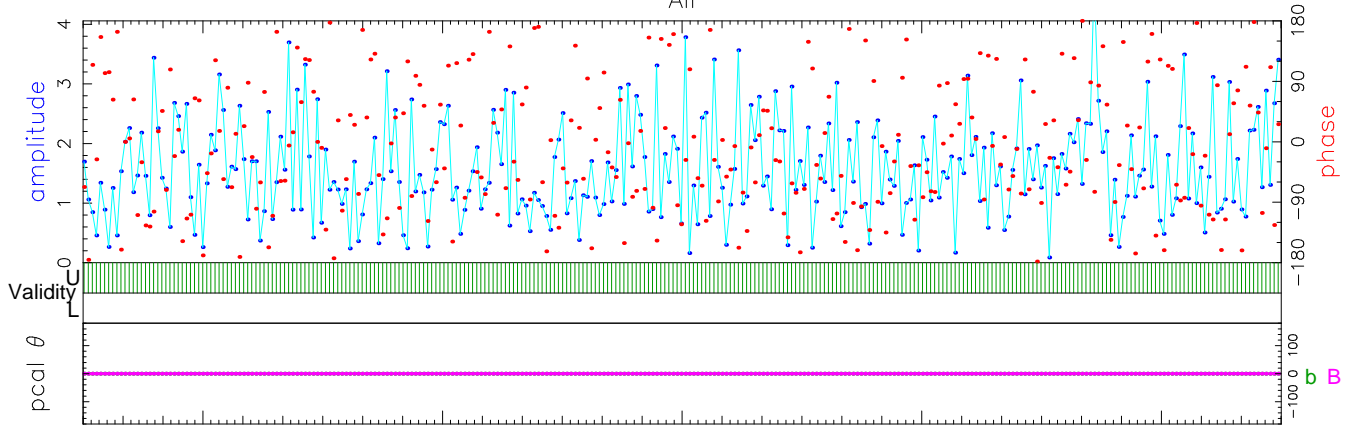
ph/seg (deg)	RMS 1.5	Theor. 0.6	Amplitude 230.302 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.0	Search (2048X8) 230.292	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.1	Inc. seg. avg. 67.491	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 230.300	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
b: az 107.5 el 62.2 pa -50.8			u,v (fr/asec) 0.000 0.000		

Fringe quality 8



SNR 8.2
Int time 299.958
Amp 1.353
Phase 37.3
PFD 2.8e-09
Delays (us)
SBD -0.335731
MBD 0.000007
Fringe rate (Hz) 0.624401
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-38.1
0.4
1520.9
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UR
B W03UR

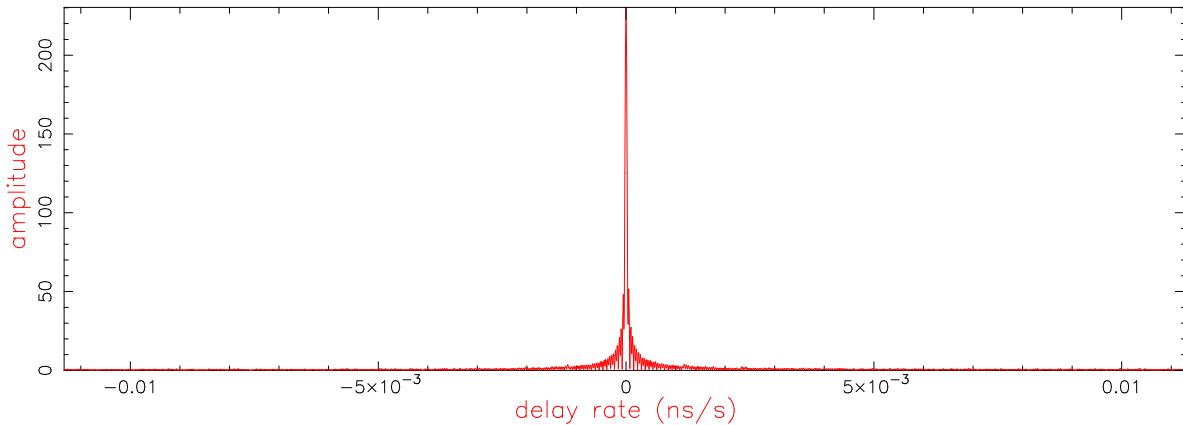
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.05678880876E+04	Apriori delay (usec)	1.05682238221E+04	Resid mbdelay (usec)	7.24511E-06	+/-	5.6E-03
Sband delay (usec)	1.05678880914E+04	Apriori clock (usec)	1.9077257E+01	Resid sbdelay (usec)	-3.35731E-01	+/-	5.6E-03
Phase delay (usec)	1.05682238209E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.23022E-06	+/-	4.5E-07
Delay rate (us/s)	1.26475187915E+00	Apriori rate (us/s)	1.26474463047E+00	Resid rate (us/s)	7.24868E-06	+/-	2.6E-09
Total phase (deg)	50.2	Apriori accel (us/s/s)	-5.78351079244E-05	Resid phase (deg)	37.3	+/-	13.9

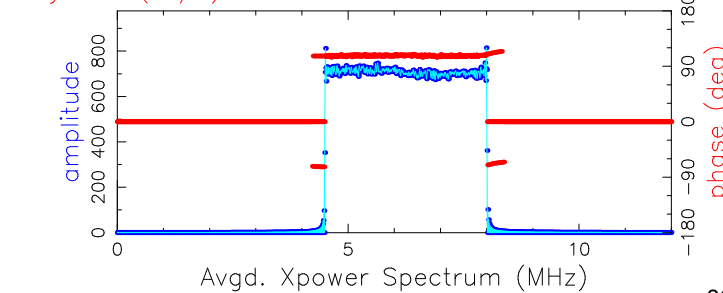
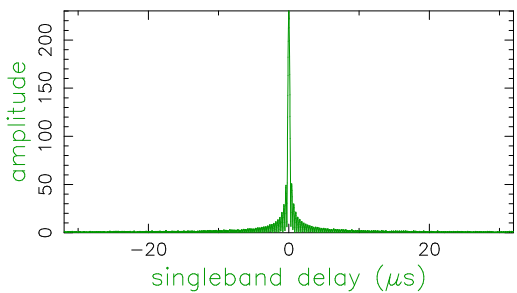
ph/seg (deg)	RMS 95.0	Theor. 119.0	Amplitude Search (2048X8)	1.353 +/- 0.164	1.120	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.9	207.7	Interp.	0.000	1.120	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.591	1.120	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.343	1.120	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
							nlags: 1536 t_cohere infinite

b: az 107.5 el 62.2 pa -50.8 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) -8847.546 -3259.002 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bB.W.40.1T5GU7

Fringe quality 5

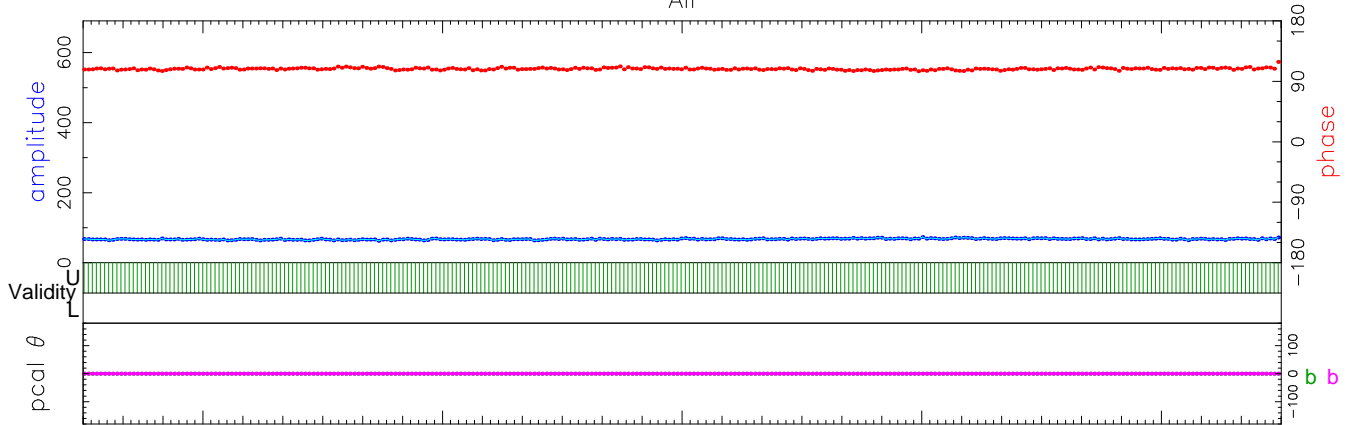


SNR 1669.9
Int time 299.958
Amp 230.302
Phase 91.1
PFD 0.0e+00
Delays (us)
SBD 0.000551
MBD -0.000004
Fringe rate (Hz)
-0.000016
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
108.5
67.5
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UR
b W03UL

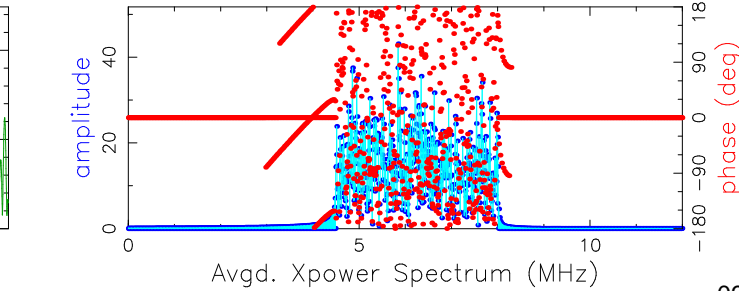
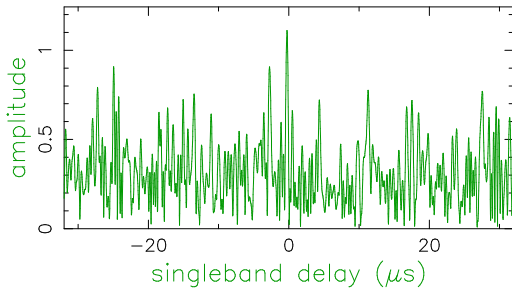
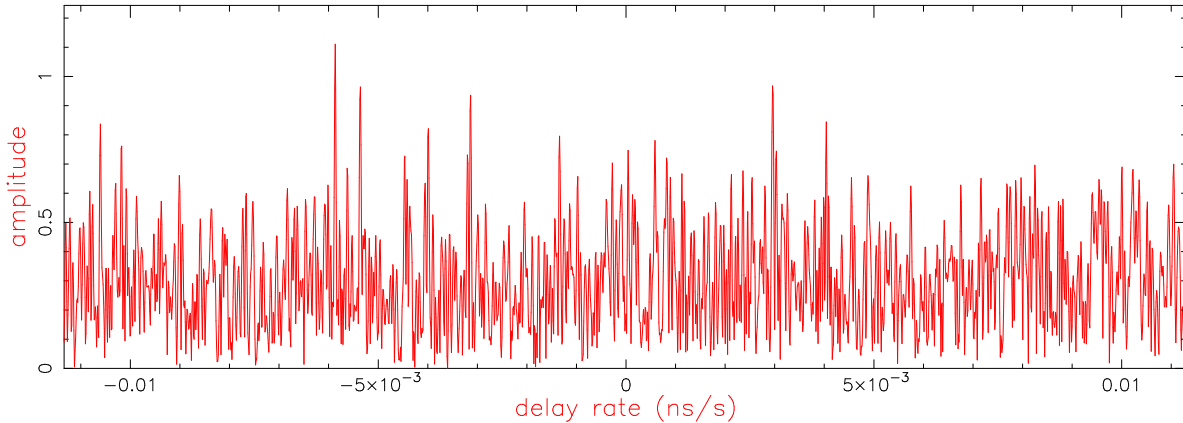
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.52311967249E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.35822E-06	+/-	2.8E-05
Sband delay (usec)	5.50666666667E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.50667E-04	+/-	2.8E-05
Phase delay (usec)	3.49841810360E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.49842E-06	+/-	2.2E-09
Delay rate (us/s)	-1.82099308233E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.82099E-10	+/-	1.3E-11
Total phase (deg)	91.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	91.1	+/-	0.1

ph/seg (deg)	RMS 1.5	Theor. 0.6	Amplitude	230.302 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7	1.0	Search (2048X8)	230.292	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	67.491	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	0.1	Inc. frq. avg.	230.300	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
				b: az 107.5 el 62.2 pa -50.8	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

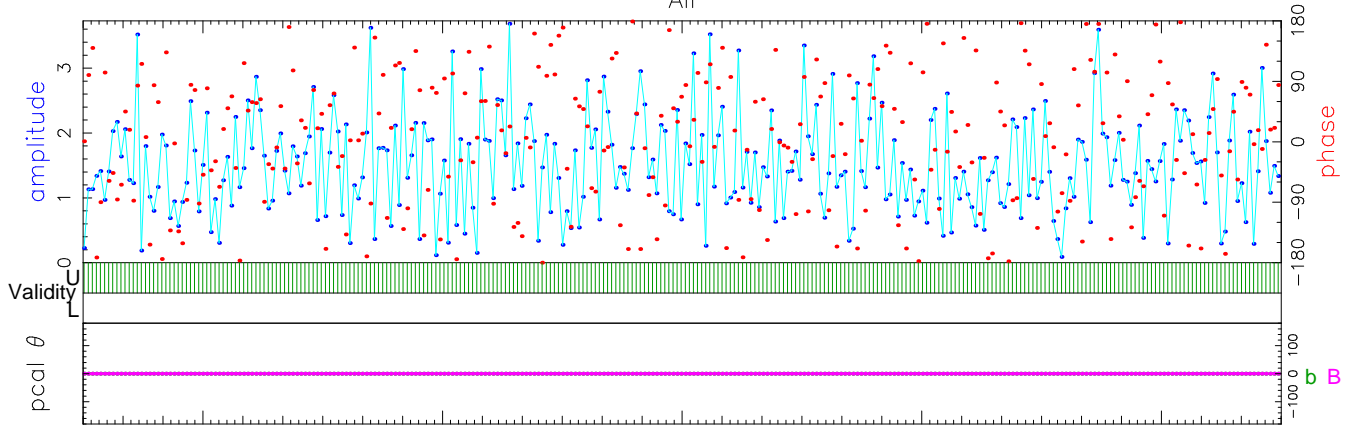
b: az 107.5 el 62.2 pa -50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bb..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bb.W.44.1T5GU7

Fringe quality 8



SNR 8.1
Int time 299.958
Amp 1.243
Phase 143.7
PFD 1.3e-08
Delays (us)
SBD -0.256279
MBD -0.000007
Fringe rate (Hz)
-0.504565
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
37.1
0.4
1524.7
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UL
B W03UR

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)	1.05679675378E+04	Apriori delay (usec)	1.05682238221E+04	Resid mbdelay (usec)	-7.23725E-06	+/- 5.7E-03
Sband delay (usec)	1.05679675434E+04	Apriori clock (usec)	1.9077257E+01	Resid sbdelay (usec)	-2.56279E-01	+/- 5.7E-03
Phase delay (usec)	1.05682238233E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.19688E-06	+/- 4.6E-07
Delay rate (us/s)	1.26473877297E+00	Apriori rate (us/s)	1.26474463047E+00	Resid rate (us/s)	-5.85750E-06	+/- 2.6E-09
Total phase (deg)	156.6	Apriori accel (us/s/s)	-5.78351079244E-05	Resid phase (deg)	143.7	+/- 14.2

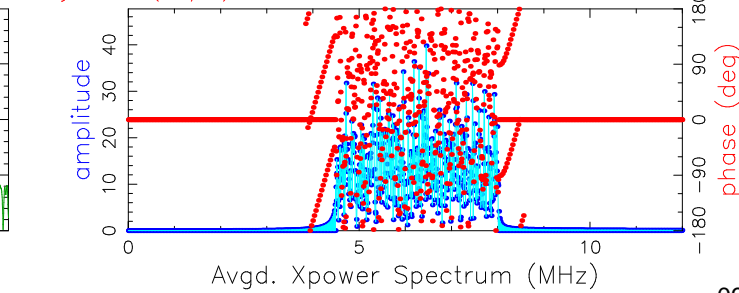
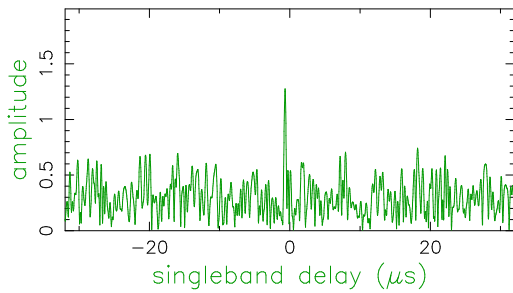
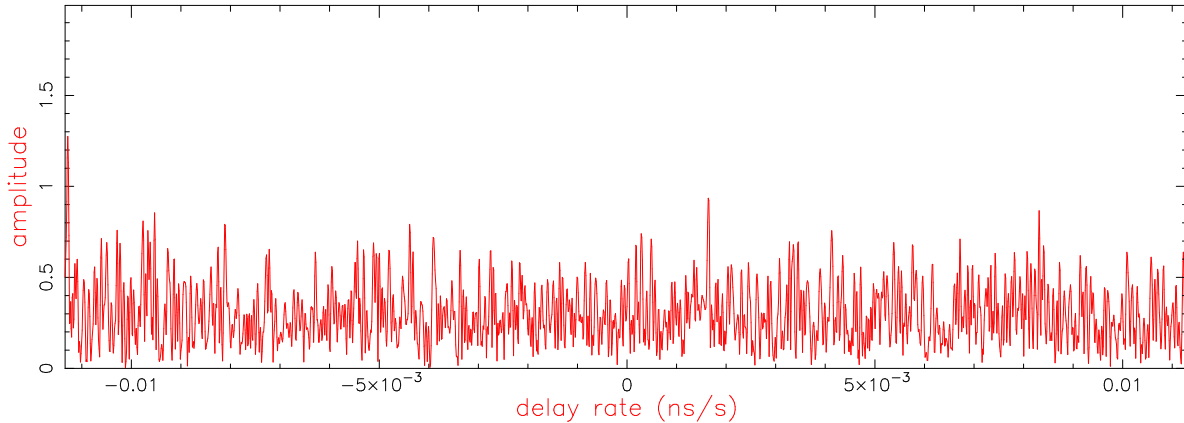
ph/seg (deg)	RMS 93.5	Theor. 121.7	Amplitude Search (2048X8)	1.243 +/- 0.154	1.105	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	76.8	212.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.519	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.233	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011	
		b: az 107.5 el 62.2 pa -50.8		B: az 296.1 el 23.6 pa 43.8		u,v (fr/asec) -8847.546 -3259.002		ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bB.W.54.1T5GU7 simultaneous interpolator

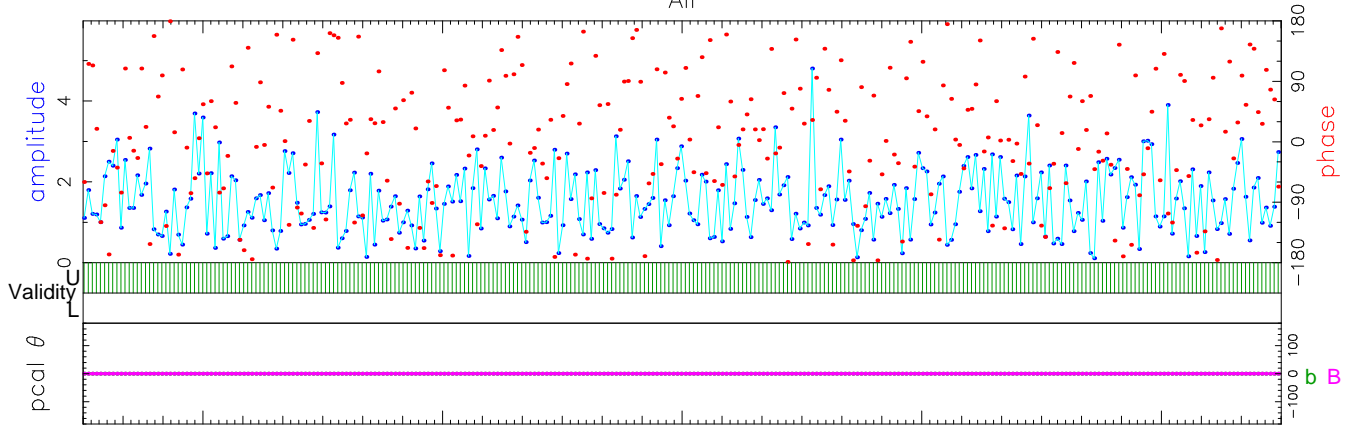
Fringe quality 8

SNR 9.3
Int time 299.958
Amp 1.995
Phase 342.4
PFD 3.9e-13
Delays (us)
SBD -0.676611
MBD -0.000005
Fringe rate (Hz)
-0.971278
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



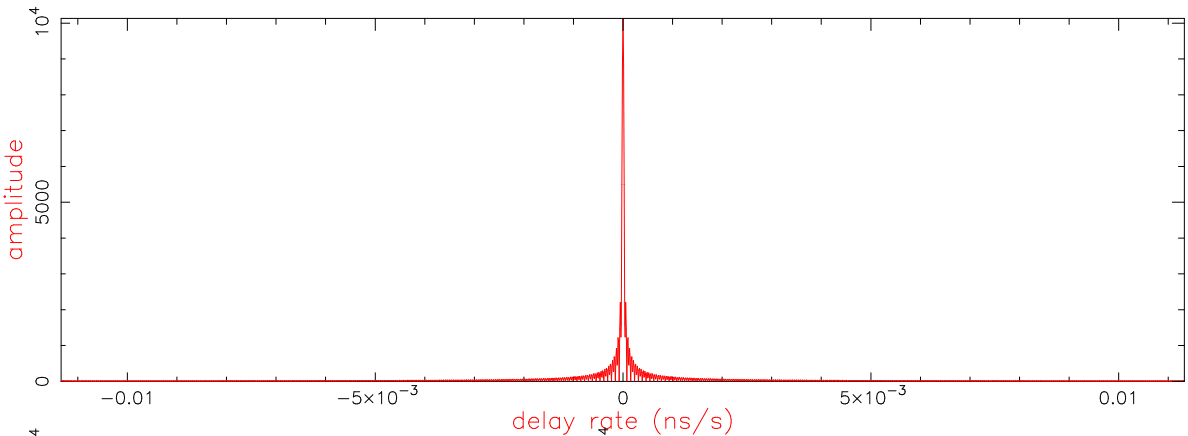
86227.00
31.0
0.6
1504.5
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UR
B W03UL

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)	1.05675472079E+04	Apriori delay (usec)	1.05682238221E+04	Resid mbdelay (usec)	-4.74237E-06	+/-	5.0E-03
Sband delay (usec)	1.05675472114E+04	Apriori clock (usec)	1.9077257E+01	Resid sbdelay (usec)	-6.76611E-01	+/-	5.0E-03
Phase delay (usec)	1.05682238231E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	9.99292E-07	+/-	4.0E-07
Delay rate (us/s)	1.26473335489E+00	Apriori rate (us/s)	1.26474463047E+00	Resid rate (us/s)	-1.12756E-05	+/-	2.3E-09
Total phase (deg)	355.3	Apriori accel (us/s/s)	-5.78351079244E-05	Resid phase (deg)	342.4	+/-	12.4

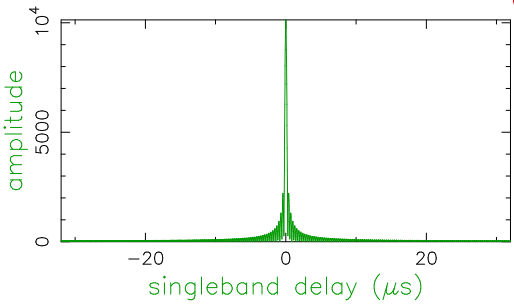
ph/seg (deg)	RMS 91.3	Theor. 105.9	Amplitude Search (2048X8)	1.239	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	67.2	184.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.886	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	10.8	Inc. frq. avg.	1.979	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 107.5 el 62.2 pa -50.8 B: az 296.1 el 23.6 pa 43.8 u,v (fr/asec) -8847.546 -3259.002 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bB..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bB.W.63.1T5GU7

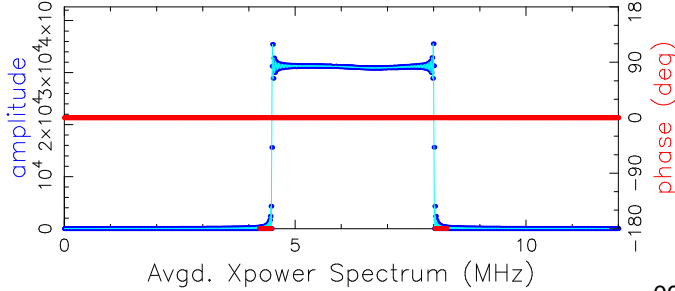


Fringe quality 5

SNR 73476.3
Int time 299.958
Amp 10133.604
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



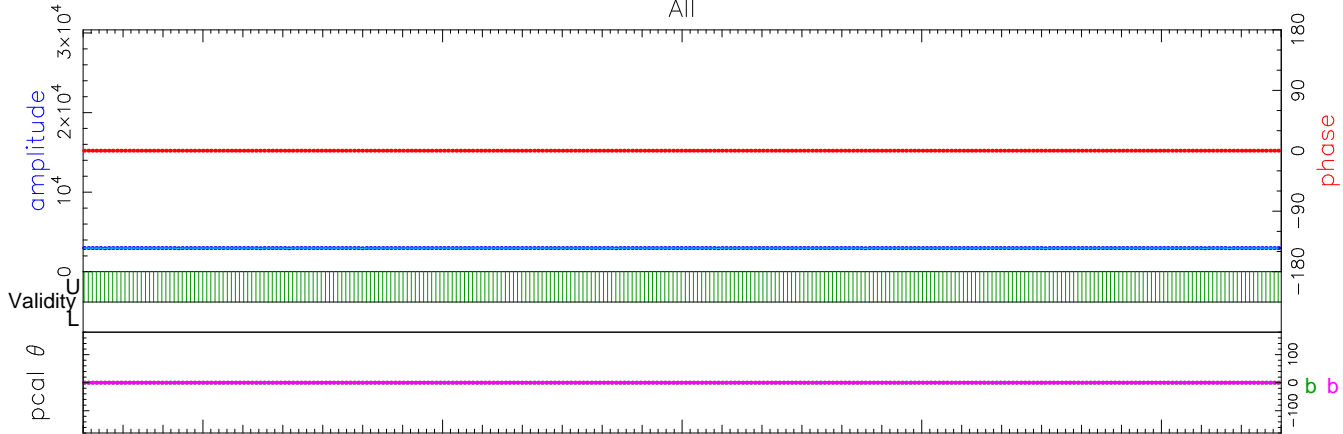
delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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

All



86227.00
0.1
2968.8
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UL

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

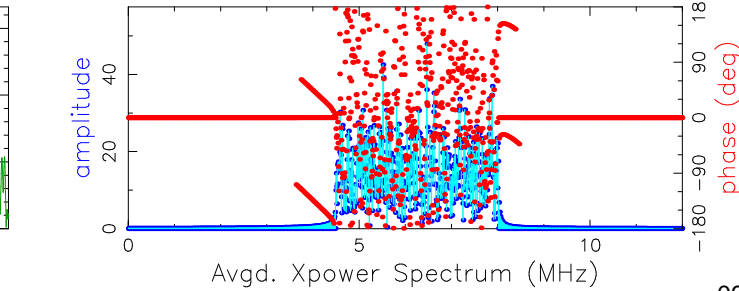
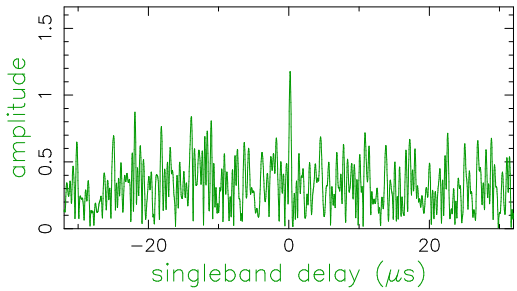
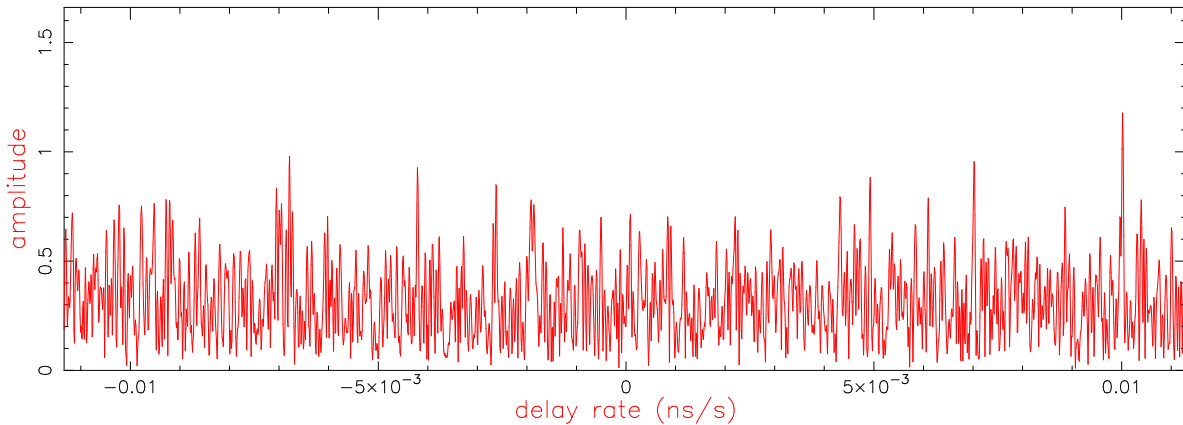
Group delay (usec)(sbd)	-4.35327681585E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.35328E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	4.69996219960E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.69996E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-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	10133.604 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10133.603	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2968.829	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10133.604	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

b: az 107.5 el 62.2 pa -50.8 b: az 107.5 el 62.2 pa -50.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

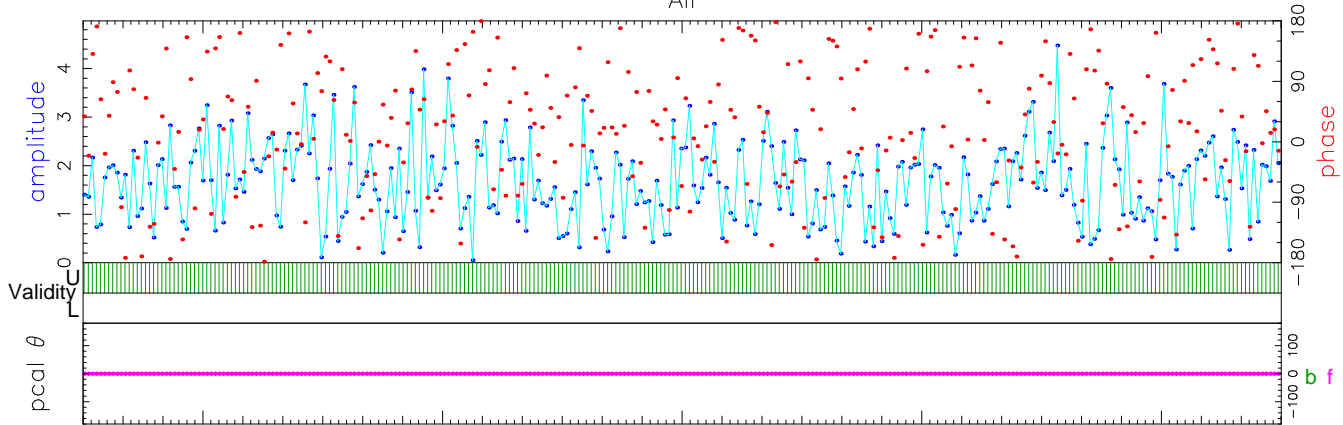
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bb..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bb.W.9.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.956
Amp 1.661
Phase -339.9
PFD 2.4e-10
Delays (us)
SBD 0.184695
MBD 0.000004
Fringe rate (Hz)
0.862330
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
44.5
0.5
1545.9
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UL

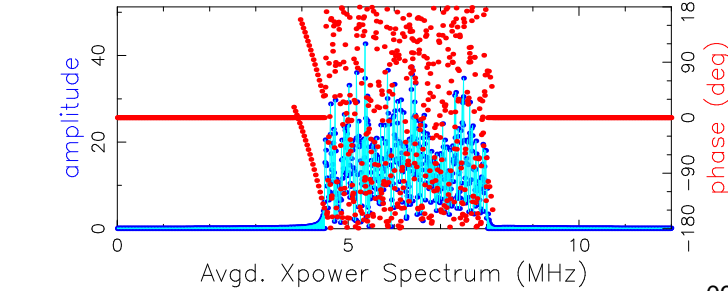
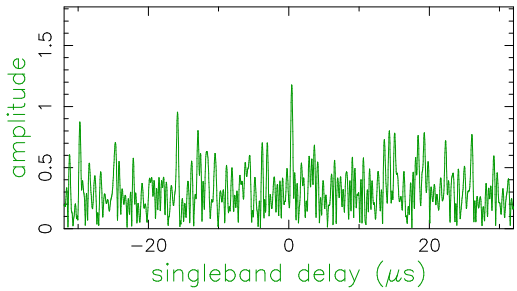
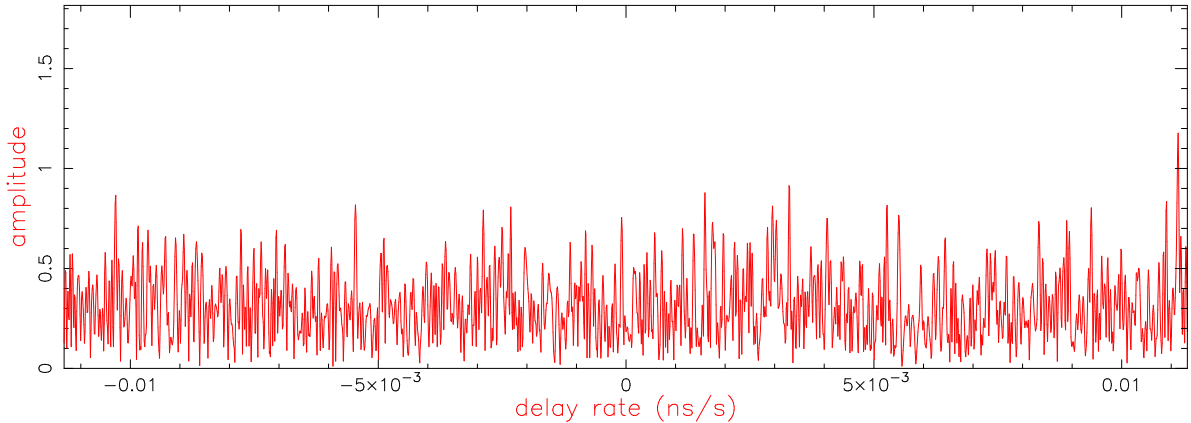
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.75162038751E+03	Apriori delay (usec)	-1.75180507894E+03	Resid mbdelay (usec)	4.49650E-06	+/-	5.4E-03
Sband delay (usec)	-1.75162038427E+03	Apriori clock (usec)	-1.3251856E+01	Resid sbdelay (usec)	1.84695E-01	+/-	5.4E-03
Phase delay (usec)	-1.75180507750E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	1.43598E-06	+/-	4.3E-07
Delay rate (us/s)	1.45453291008E-01	Apriori rate (us/s)	1.45443280215E-01	Resid rate (us/s)	1.00108E-05	+/-	2.5E-09
Total phase (deg)	-159.7	Apriori accel (us/s/s)	2.42307892350E-05	Resid phase (deg)	-339.9	+/-	13.4

ph/seg (deg)	RMS 91.6	Theor. 114.9	Amplitude Search (2048X8)	1.661 +/- 0.195	1.161	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	82.1	200.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.781	Sample rate(MSamp/s): 24	mb window (us)	-0.000 0.000	
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.649	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011	
				u,v (fr/asec) -983.793 3027.977		nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

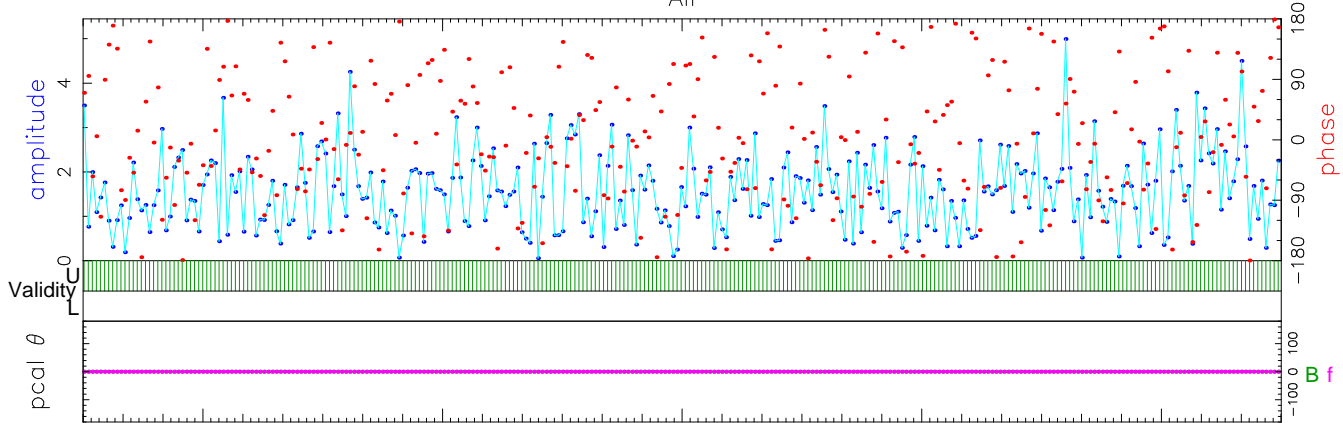
b: az 107.5 el 62.2 pa -50.8 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) -983.793 3027.977 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bf.W.10.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.973
Amp 1.816
Phase -195.7
PFD 2.3e-10
Delays (us)
SBD 0.420079
MBD 0.000006
Fringe rate (Hz)
0.958421
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
1.1
0.5
1557.2
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UL
f W03UL

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)	-1.23196088178E+04	Apriori delay (usec)	-1.23200289010E+04	Resid mbdelay (usec)	5.96101E-06	+/-	5.4E-03
Sband delay (usec)	-1.23196088224E+04	Apriori clock (usec)	-3.2329113E+01	Resid sbdelay (usec)	4.20079E-01	+/-	5.4E-03
Phase delay (usec)	-1.23200289010E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	3.61615E-08	+/-	4.3E-07
Delay rate (us/s)	-1.11929022394E+00	Apriori rate (us/s)	-1.11930135025E+00	Resid rate (us/s)	1.11263E-05	+/-	2.5E-09
Total phase (deg)	-28.5	Apriori accel (us/s/s)	8.20658971594E-05	Resid phase (deg)	-195.7	+/-	13.4

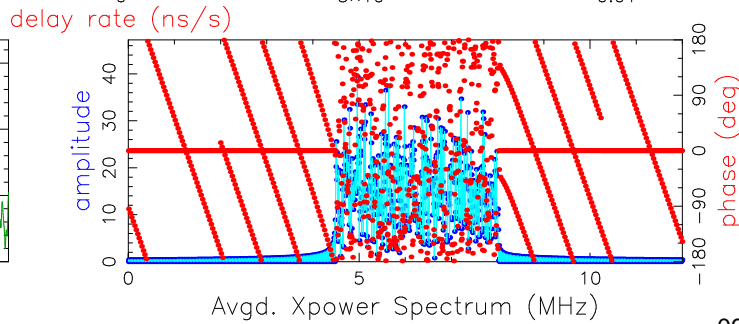
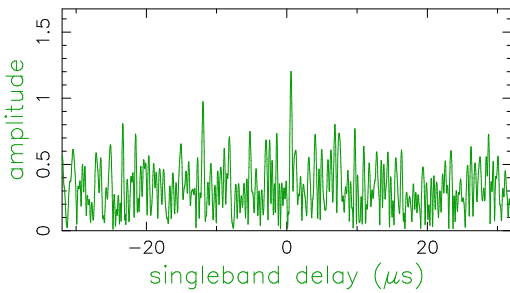
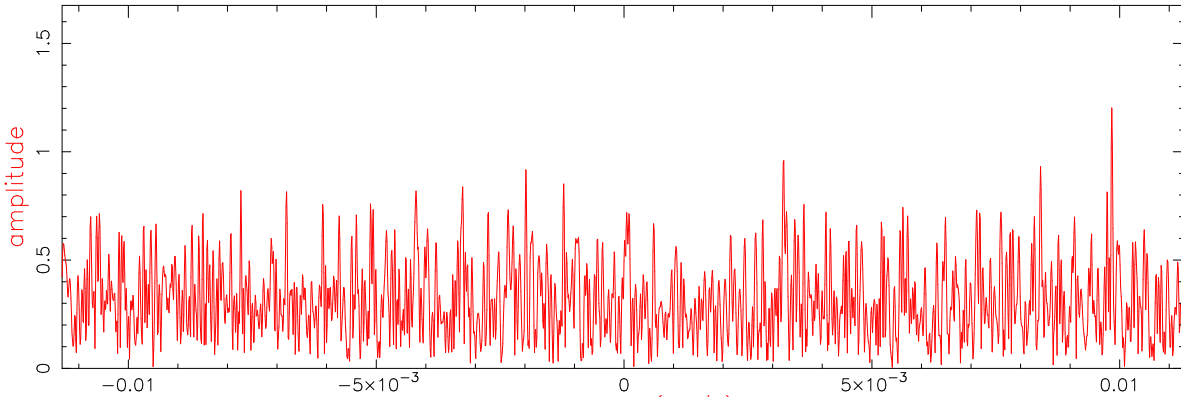
ph/seg (deg)	RMS 94.1	Theor. 114.8	Amplitude Search (2048X8)	1.816 +/- 0.213	1.176	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.7	200.4	Interp.	0.000	0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.804	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.804	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 296.1 el 23.6 pa 43.8 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 7863.753 6286.979 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bf.W.12.1T5GU7

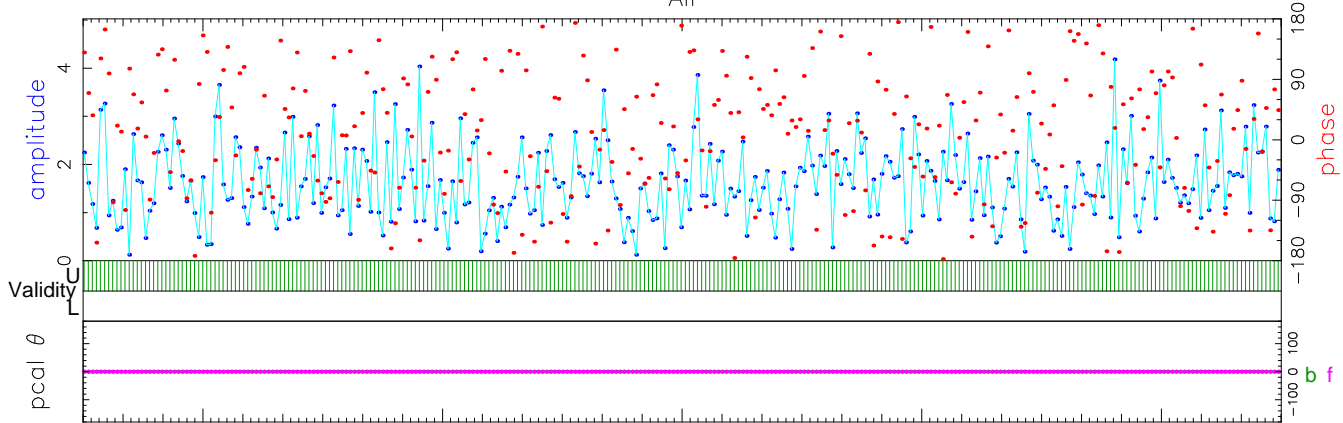
Fringe quality 8

SNR 8.7
Int time 299.956
Amp 1.675
Phase -315.6
PFD 4.9e-11
Delays (us)
SBD 0.597255
MBD 0.000004
Fringe rate (Hz)
0.847411
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051930
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
30.3
0.5
1565.7
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UR

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)	-1.75120782540E+03	Apriori delay (usec)	-1.75180507894E+03	Resid mbdelay (usec)	4.41291E-06	+/-	5.3E-03
Sband delay (usec)	-1.75120782427E+03	Apriori clock (usec)	-1.3251856E+01	Resid sbdelay (usec)	5.97255E-01	+/-	5.3E-03
Phase delay (usec)	-1.75180507796E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	9.76492E-07	+/-	4.2E-07
Delay rate (us/s)	1.45453117813E-01	Apriori rate (us/s)	1.45443280215E-01	Resid rate (us/s)	9.83760E-06	+/-	2.4E-09
Total phase (deg)	-135.4	Apriori accel (us/s/s)	2.42307892350E-05	Resid phase (deg)	-315.6	+/-	13.1

ph/seg (deg)	RMS 90.7	Theor. 112.5	Amplitude Search (2048X8)	1.675 +/- 0.192	1.157	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.0	196.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.776	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.663	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
b: az 107.5 el 62.2 pa -50.8	f: az 70.7 el 75.3 pa -100.1	u,v (fr/asec) -983.793 3027.977					ion window (TEC) 0.00 0.00

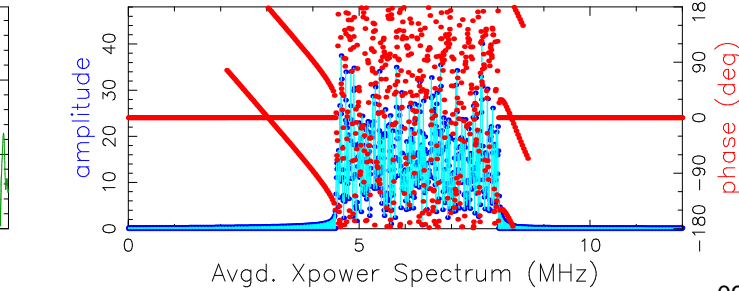
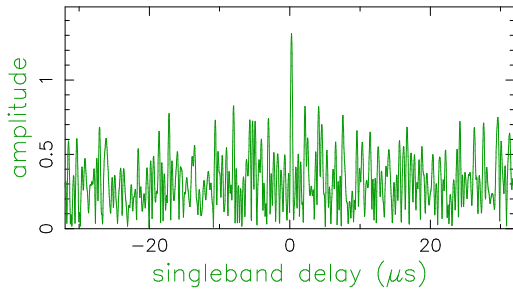
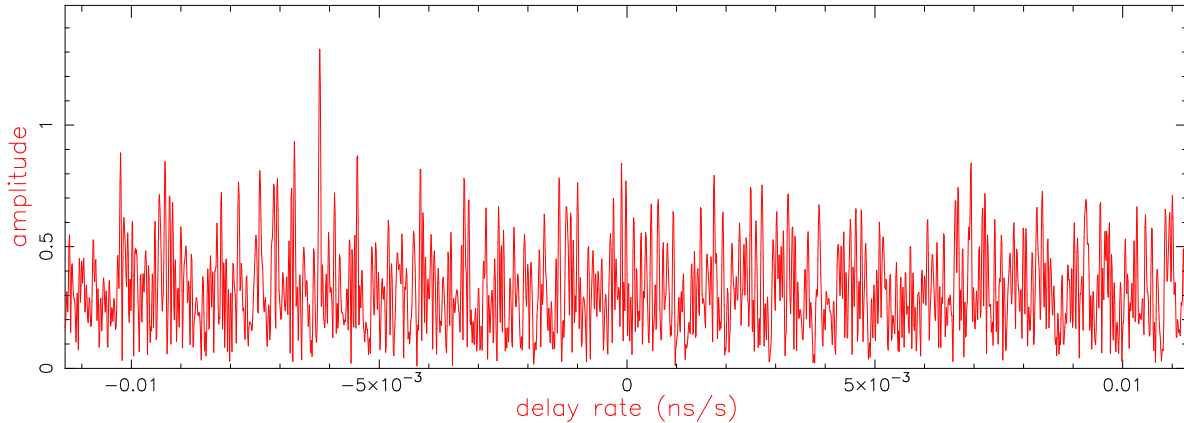
simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bf.W.17.1T5GU7

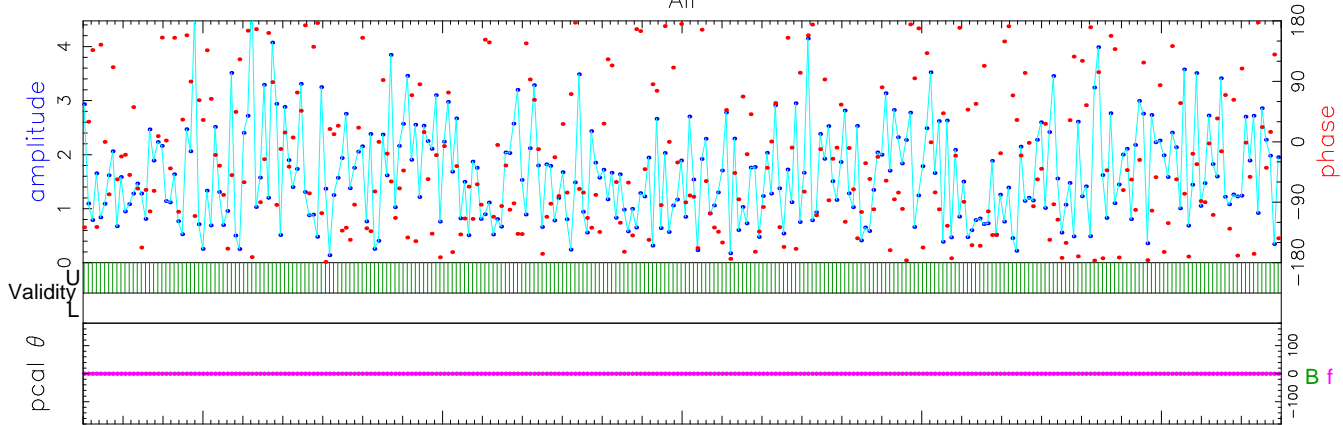
Fringe quality 8

SNR 9.5
Int time 299.973
Amp 1.492
Phase -357.0
PFD 2.7e-14
Delays (us)
SBD 0.238388
MBD -0.000007
Fringe rate (Hz)
-0.533262
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-90.5
0.4
1548.4
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UR
f W03UR

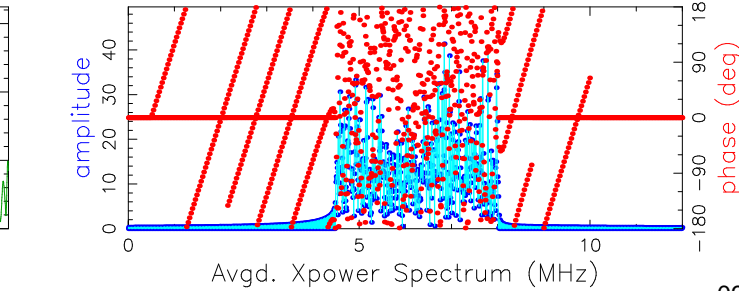
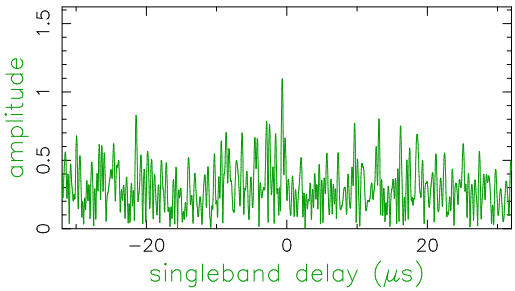
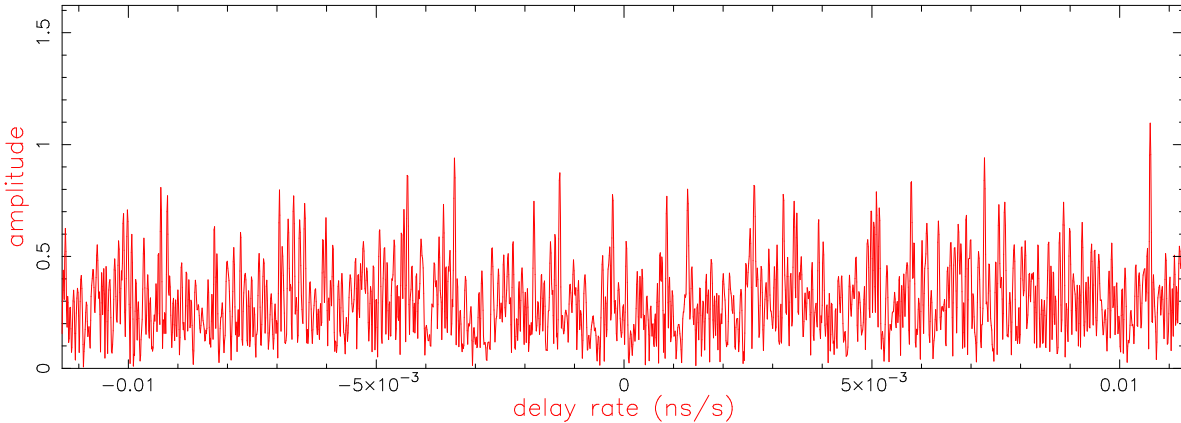
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.23197905143E+04	Apriori delay (usec)	-1.23200289010E+04	Resid mbdelay (usec)	-7.23750E-06	+/-	4.8E-03
Sband delay (usec)	-1.23197905130E+04	Apriori clock (usec)	-3.2329113E+01	Resid sbdelay (usec)	2.38388E-01	+/-	4.8E-03
Phase delay (usec)	-1.23200289040E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	-2.91852E-06	+/-	3.9E-07
Delay rate (us/s)	-1.11930754090E+00	Apriori rate (us/s)	-1.11930135025E+00	Resid rate (us/s)	-6.19065E-06	+/-	2.2E-09
Total phase (deg)	-189.8	Apriori accel (us/s/s)	8.20658971594E-05	Resid phase (deg)	-357.0	+/-	12.0

ph/seg (deg)	RMS 90.4	Theor. 102.8	Amplitude Search (2048X8)	1.492 +/- 0.156	1.301	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.0	179.4	Interp.	0.000	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.717	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	10.5	Inc. frq. avg.	1.480	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

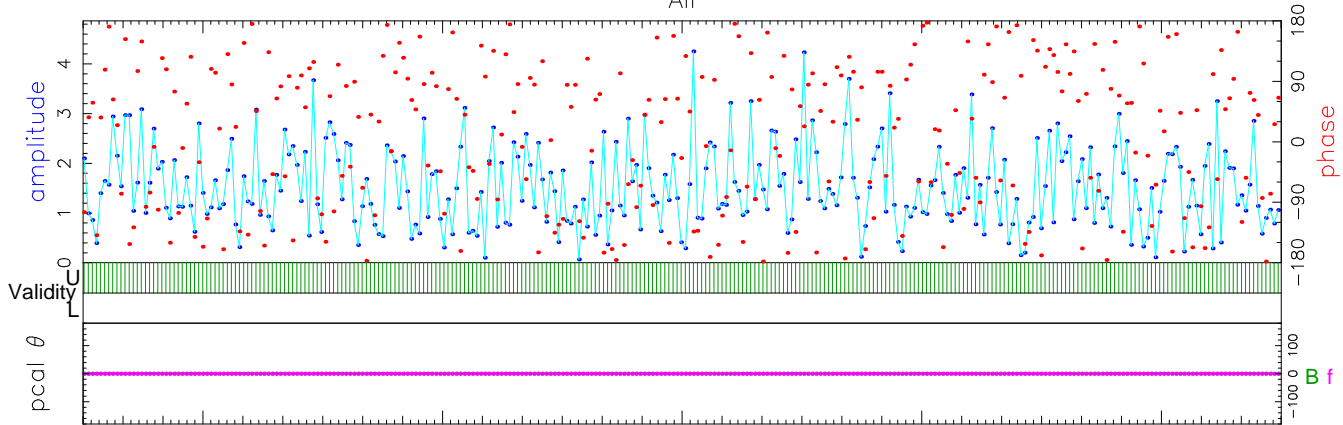
B: az 296.1 el 23.6 pa 43.8 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 7863.753 6286.979 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bf.W.20.1T5GU7

Fringe quality 8



SNR 8.0
Int time 299.973
Amp 1.622
Phase 101.3
PFD 2.8e-08
Delays (us)
SBD -0.655007
MBD 0.000005
Fringe rate (Hz)
0.913985
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
106.2
0.5
1505.6
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UL
f W03UR

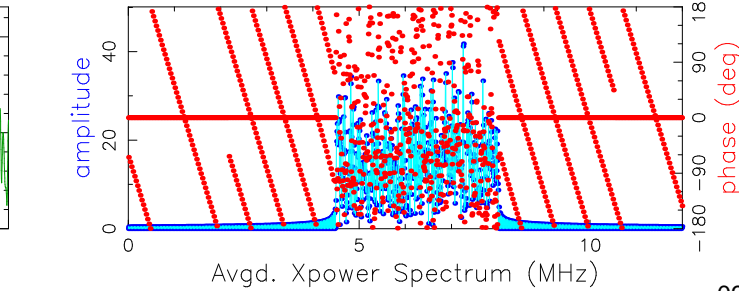
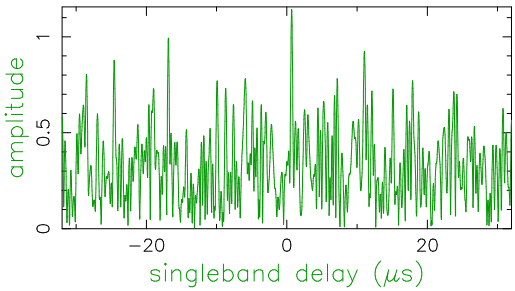
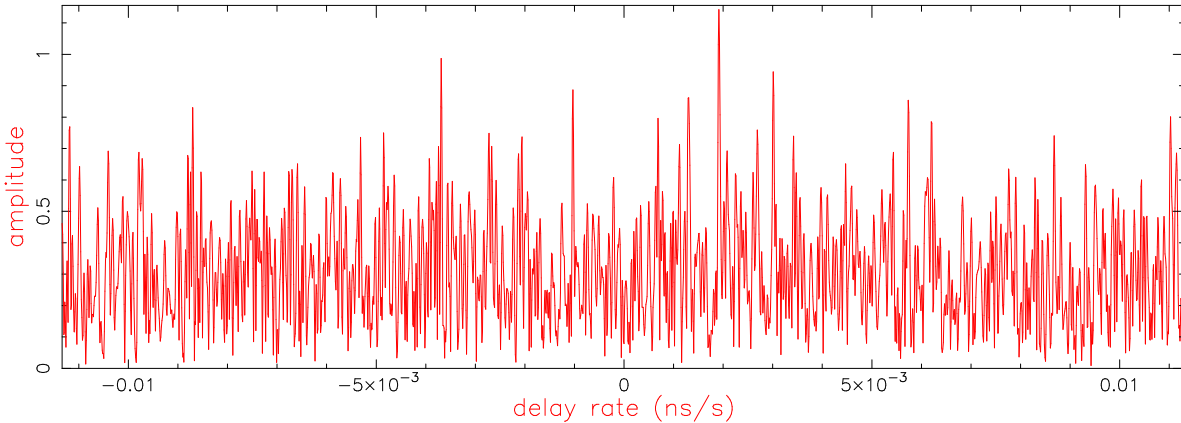
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.23206839116E+04	Apriori delay (usec)	-1.23200289010E+04	Resid mbdelay (usec)	4.64309E-06	+/-	5.8E-03
Sband delay (usec)	-1.23206839077E+04	Apriori clock (usec)	-3.2329113E+01	Resid sbdelay (usec)	-6.55007E-01	+/-	5.8E-03
Phase delay (usec)	-1.23200288976E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	3.42451E-06	+/-	4.6E-07
Delay rate (us/s)	-1.11929073980E+00	Apriori rate (us/s)	-1.11930135025E+00	Resid rate (us/s)	1.06105E-05	+/-	2.7E-09
Total phase (deg)	268.5	Apriori accel (us/s/s)	8.20658971594E-05	Resid phase (deg)	101.3	+/-	14.4

ph/seg (deg)	RMS 94.8	Theor. 123.2	Amplitude Search (2048X8)	1.622 +/- 0.204	1.071	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.0	215.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.682	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.6	Inc. frq. avg.	1.606	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

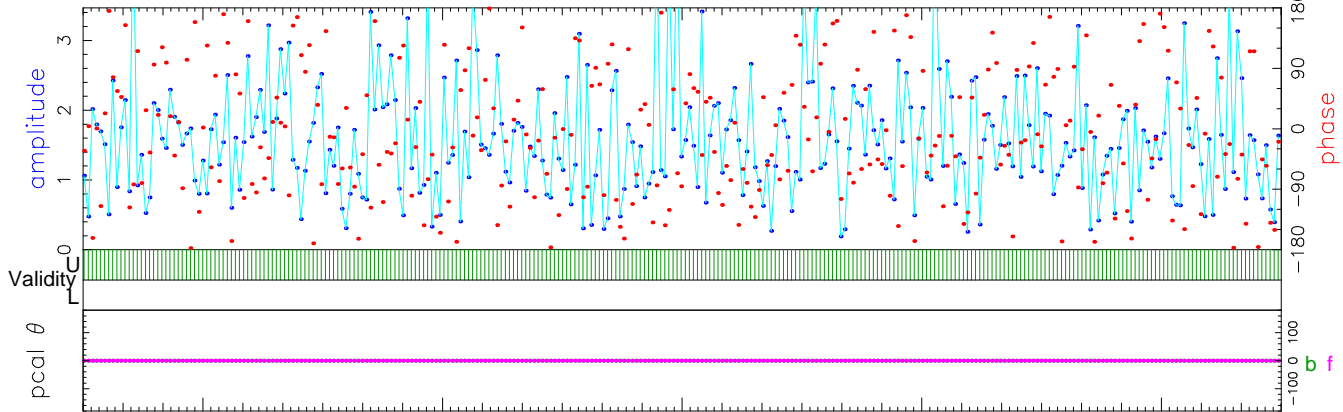
B: az 296.1 el 23.6 pa 43.8 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 7863.753 6286.979 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bf.W.29.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.956
Amp 1.156
Phase -292.5
PFD 2.0e-09
Delays (us)
SBD 0.686280
MBD 0.000005
Fringe rate (Hz)
0.165255
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-38.5
0.3
1569.9
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UR

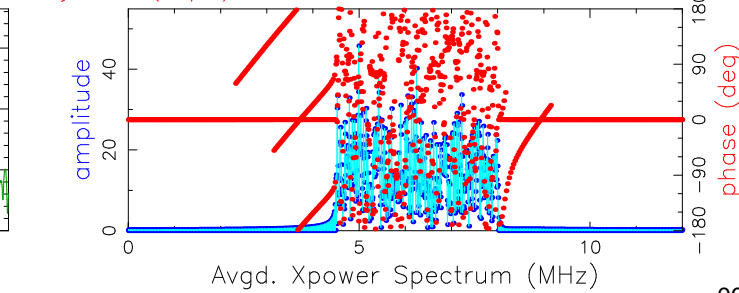
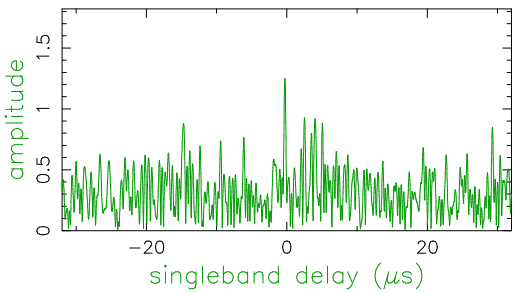
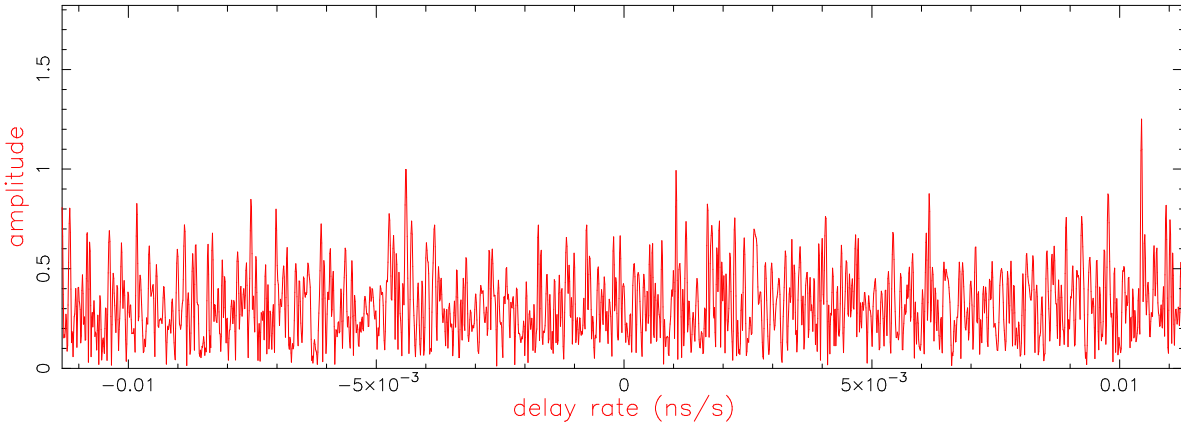
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.75111880443E+03	Apriori delay (usec)	-1.75180507894E+03	Resid mbdelay (usec)	4.54892E-06	+/-	5.5E-03
Sband delay (usec)	-1.75111879894E+03	Apriori clock (usec)	-1.3251856E+01	Resid sbdelay (usec)	6.86280E-01	+/-	5.5E-03
Phase delay (usec)	-1.75180508018E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-1.24108E-06	+/-	4.5E-07
Delay rate (us/s)	1.45445198667E-01	Apriori rate (us/s)	1.45443280215E-01	Resid rate (us/s)	1.91845E-06	+/-	2.6E-09
Total phase (deg)	-112.3	Apriori accel (us/s/s)	2.42307892350E-05	Resid phase (deg)	-292.5	+/-	13.8

ph/seg (deg)	RMS 95.0	Theor. 118.4	Amplitude Search (2048X8)	1.126	1.156 +/- 0.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.0	206.6	Interp.	0.000	1.126	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.516	1.126	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.148	1.148	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

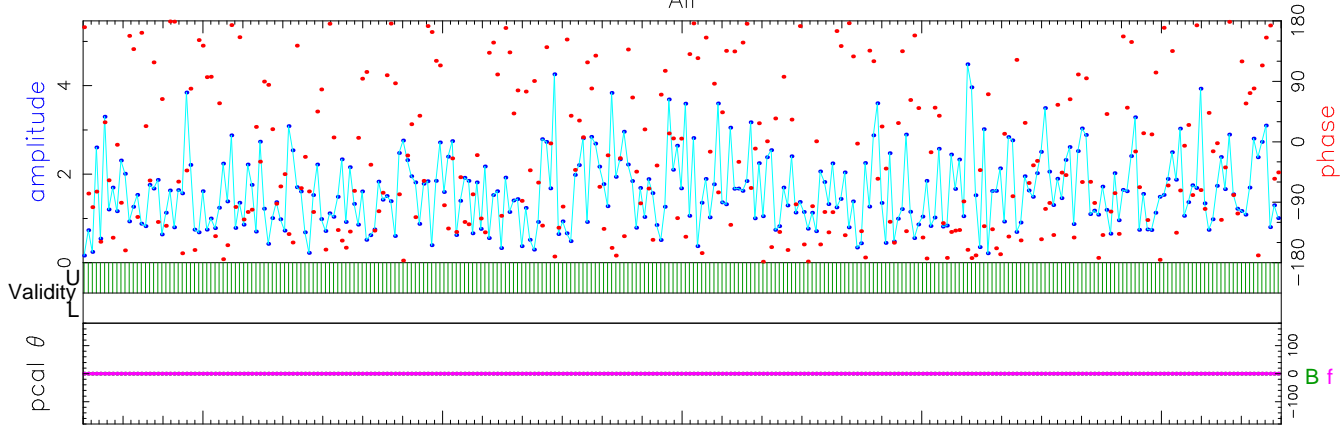
b: az 107.5 el 62.2 pa -50.8 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) -983.793 3027.977 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bf.W.50.1T5GU7

Fringe quality 8



SNR 9.1
Int time 299.973
Amp 1.822
Phase 135.8
PFD 2.2e-12
Delays (us)
SBD -0.272833
MBD 0.000005
Fringe rate (Hz)
0.898409
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-129.4
0.5
1523.9
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UR
f W03UL

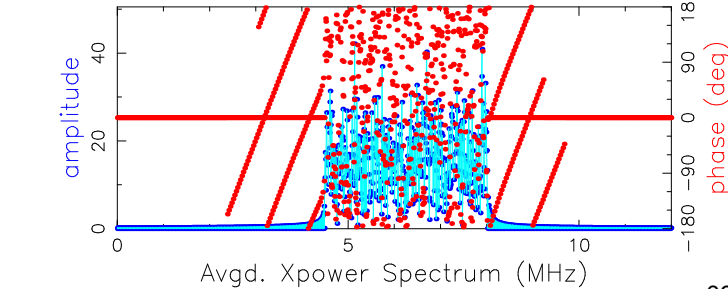
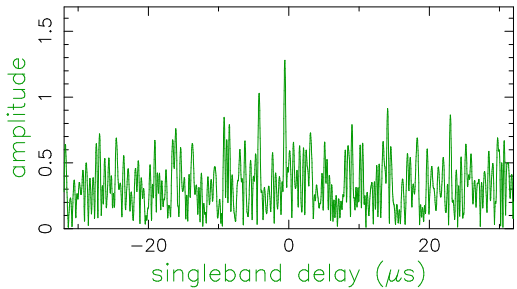
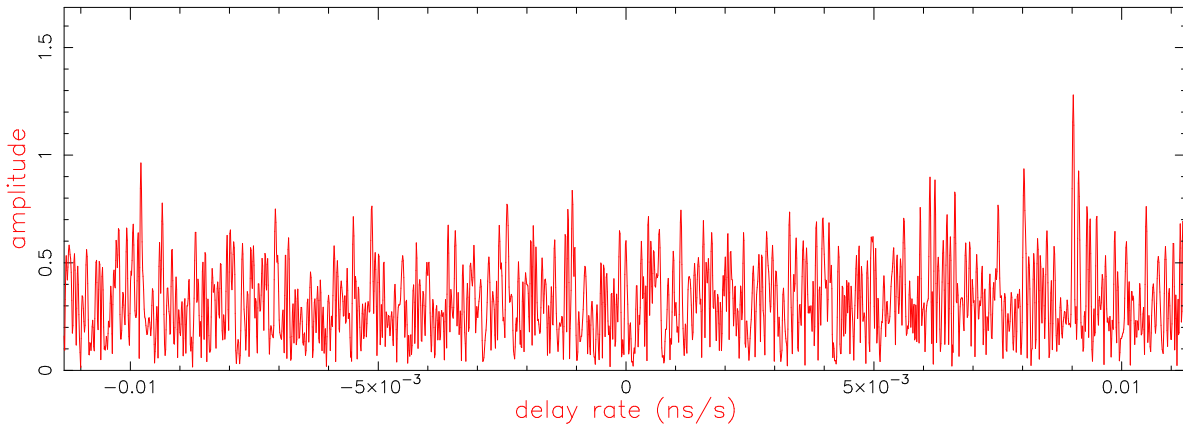
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.23203017344E+04	Apriori delay (usec)	-1.23200289010E+04	Resid mbdelay (usec)	4.64820E-06	+/-	5.1E-03
Sband delay (usec)	-1.23203017344E+04	Apriori clock (usec)	-3.2329113E+01	Resid sbdelay (usec)	-2.72833E-01	+/-	5.1E-03
Phase delay (usec)	-1.23200289052E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	-4.17404E-06	+/-	4.1E-07
Delay rate (us/s)	-1.11929092062E+00	Apriori rate (us/s)	-1.11930135025E+00	Resid rate (us/s)	1.04296E-05	+/-	2.4E-09
Total phase (deg)	303.1	Apriori accel (us/s/s)	8.20658971594E-05	Resid phase (deg)	135.8	+/-	12.6

ph/seg (deg)	RMS 92.8	Theor. 108.1	Amplitude Search (2048X8)	1.822 +/- 0.201	1.244	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.1	188.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.850	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.811	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
B: az 296.1 el 23.6 pa 43.8		f: az 70.7 el 75.3 pa -100.1		u,v (fr/asec) 7863.753 6286.979		ion window (TEC) 0.00 0.00	

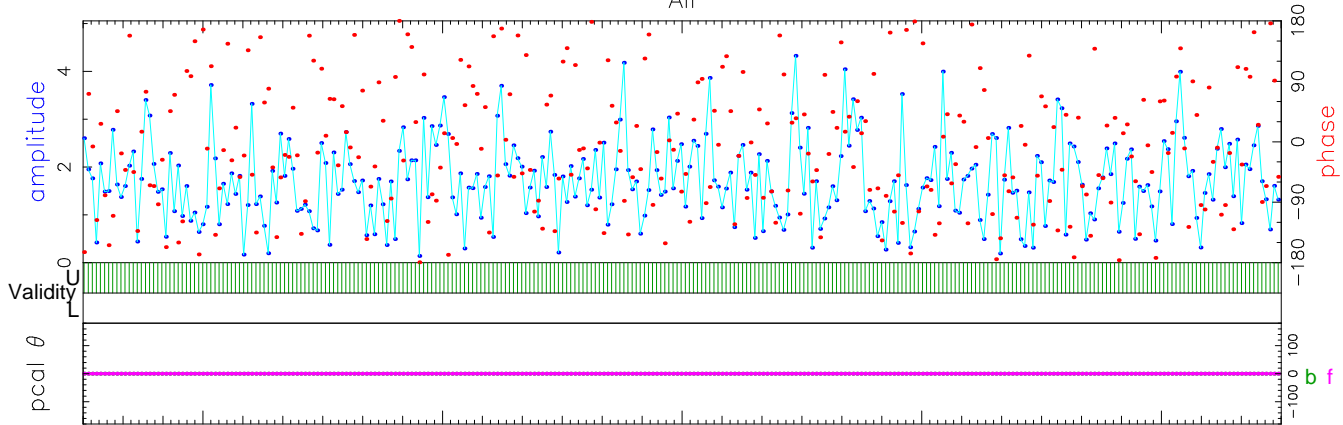
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bf.W.51.1T5GU7 simultaneous interpolator

Fringe quality 8



SNR 9.3
Int time 299.956
Amp 1.687
Phase 205.9
PFD 2.9e-13
Delays (us)
SBD -0.570395
MBD 0.000005
Fringe rate (Hz) 0.776115
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build 2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000) 09h45m34.287498s +34°30'42.760780"

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



86227.00
-19.1
0.5
1509.6
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UL

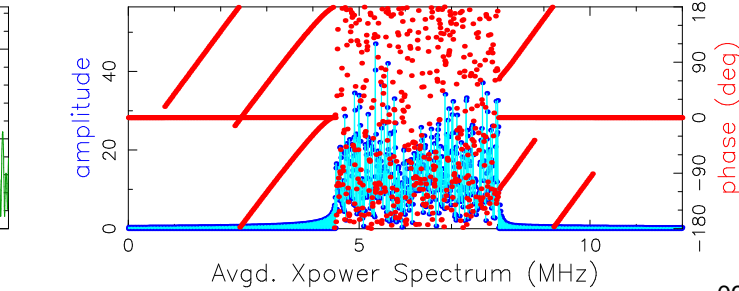
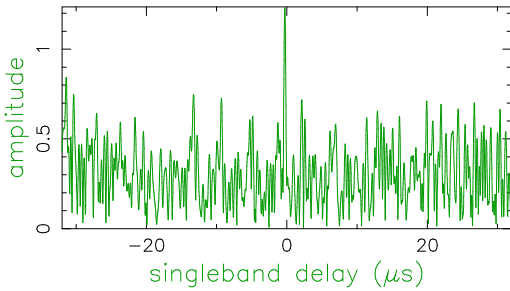
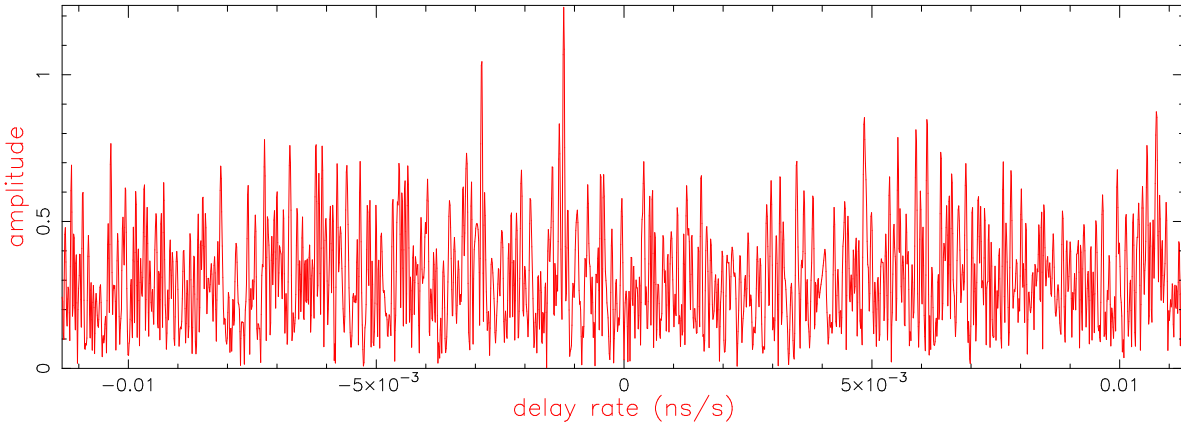
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.75237547561E+03	Apriori delay (usec)	-1.75180507894E+03	Resid mbdelay (usec)	4.70498E-06	+/-	4.9E-03
Sband delay (usec)	-1.75237547360E+03	Apriori clock (usec)	-1.3251856E+01	Resid sbdelay (usec)	-5.70395E-01	+/-	4.9E-03
Phase delay (usec)	-1.75180507955E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-6.16166E-07	+/-	4.0E-07
Delay rate (us/s)	1.45452290145E-01	Apriori rate (us/s)	1.45443280215E-01	Resid rate (us/s)	9.00993E-06	+/-	2.3E-09
Total phase (deg)	26.0	Apriori accel (us/s/s)	2.42307892350E-05	Resid phase (deg)	205.9	+/-	12.3

ph/seg (deg)	RMS 92.7	Theor. 105.6	Amplitude Search (2048X8)	1.687 +/- 0.182	1.266	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.9	184.2	Interp.	0.000	0.836	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.836	1.675	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.675		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

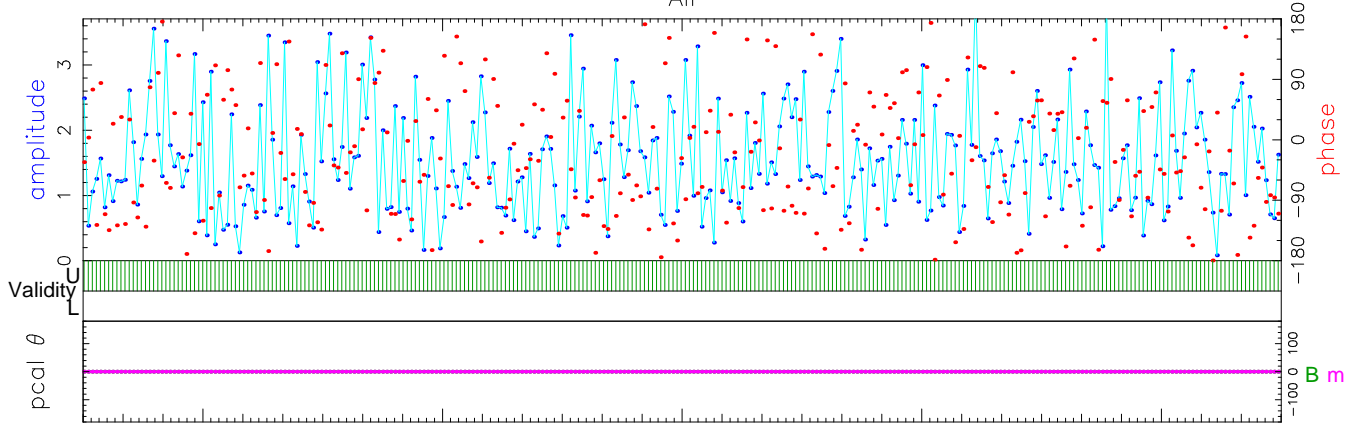
b: az 107.5 el 62.2 pa -50.8 f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) -983.793 3027.977 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bf..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bf.W.72.1T5GU7

Fringe quality 8



SNR 8.9
Int time 299.980
Amp 1.236
Phase 301.1
PFD 8.4e-12
Delays (us)
SBD -0.287255
MBD -0.000007
Fringe rate (Hz)
-0.104617
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051931
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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

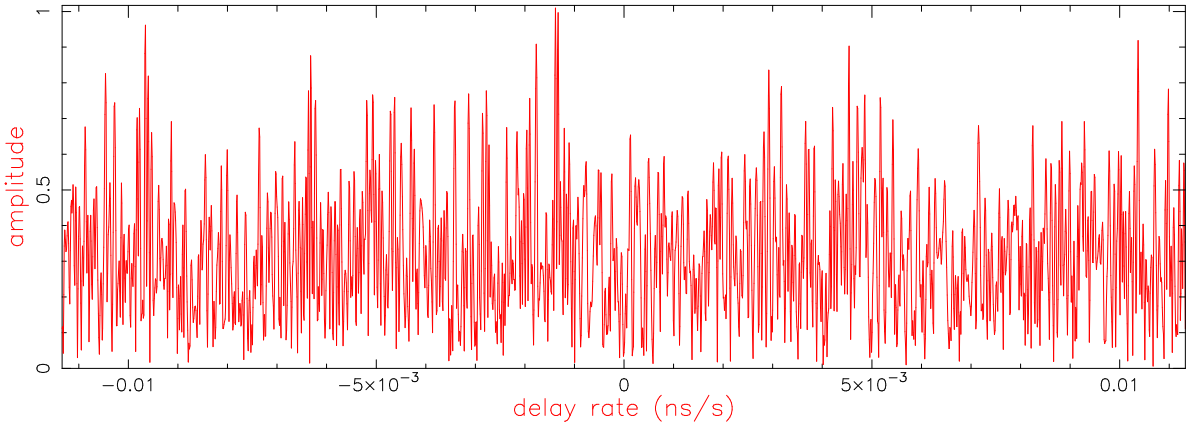


86227.00
-55.7
0.4
1523.2
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UL
m W03UL

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

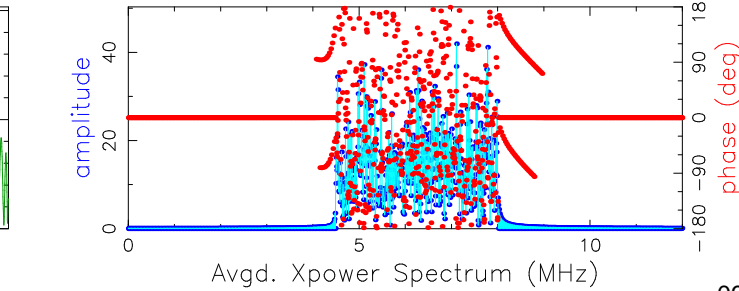
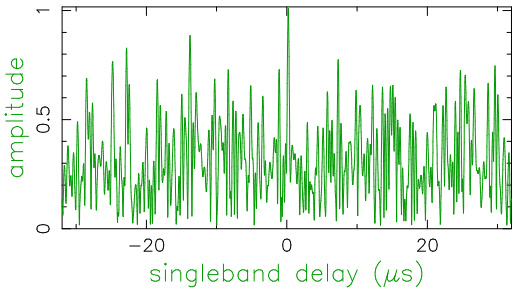
Group delay (usec)(sbd)	-2.04328574470E+03	Apriori delay (usec)	-2.04299848443E+03	Resid mbdelay (usec)	-6.85447E-06	+/-	5.2E-03
Sband delay (usec)	-2.04328573910E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-2.87255E-01	+/-	5.2E-03
Phase delay (usec)	-2.04299848623E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.79553E-06	+/-	4.1E-07
Delay rate (us/s)	-1.92751153432E+00	Apriori rate (us/s)	-1.92751031983E+00	Resid rate (us/s)	-1.21449E-06	+/-	2.4E-09
Total phase (deg)	139.5	Apriori accel (us/s/s)	3.82530048161E-05	Resid phase (deg)	301.1	+/-	12.8

ph/seg (deg)	90.1	RMS	110.0	Theor.	120.0	Amplitude	1.236 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	72.1	Search (2048X8)	1.204	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.550	Inc. frq. avg.	1.228	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	Inc. frq. avg.	1.228	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48		nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011 0.011
B: az 296.1 el 23.6 pa 43.8		m: az 60.8 el 28.5 pa -84.9		u,v (fr/asec)	13421.636 5140.834			ion window (TEC)	0.00 0.00	



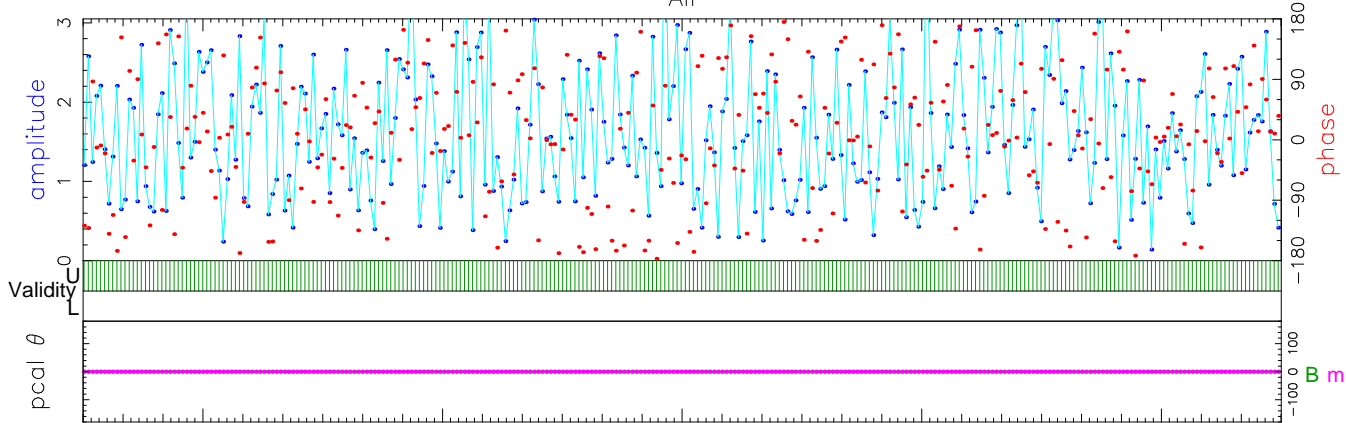
Fringe quality 8

SNR 7.3
Int time 299.980
Amp 1.017
Phase -104.4
PFD 3.4e-06
Delays (us)
SBD 0.199531
MBD -0.000007
Fringe rate (Hz)
-0.119346
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



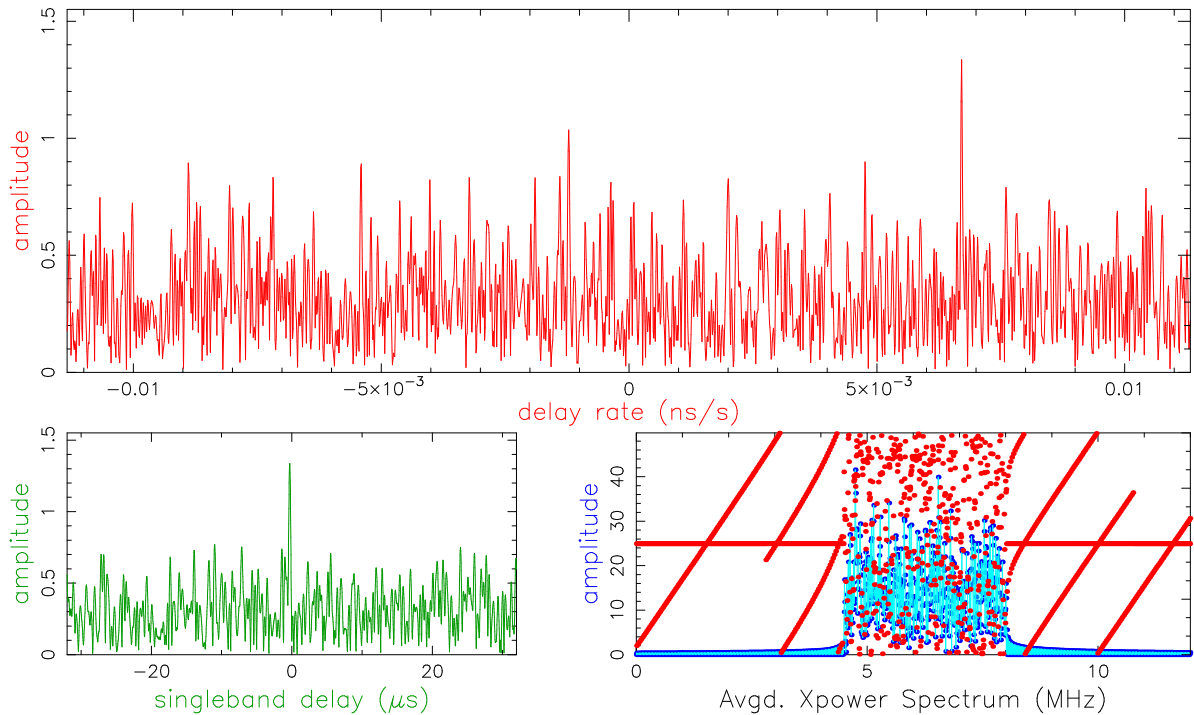
86227.00
25.3
0.3
1546.6
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UR
m W03UR

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)	-2.04279894822E+03	Apriori delay (usec)	-2.04299848443E+03	Resid mbdelay (usec)	-6.85345E-06	+/-	6.3E-03
Sband delay (usec)	-2.04279895377E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	1.99531E-01	+/-	6.3E-03
Phase delay (usec)	-2.04299848362E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.14777E-07	+/-	5.0E-07
Delay rate (us/s)	-1.92751170532E+00	Apriori rate (us/s)	-1.92751031983E+00	Resid rate (us/s)	-1.38549E-06	+/-	2.9E-09
Total phase (deg)	-266.1	Apriori accel (us/s/s)	3.82530048161E-05	Resid phase (deg)	-104.4	+/-	15.6

ph/seg (deg)	RMS 93.7	Theor. 133.8	Amplitude Search (2048X8)	1.017 +/- 0.139	0.995	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	103.4	233.6	Interp.	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.8	Inc. seg. avg.	0.440	0.0000000E+00	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	13.6	Inc. frq. avg.	1.006	-1.92751031983E+00	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 296.1 el 23.6 pa 43.8 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 13421.636 5140.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bm.W.36.1T5GU7

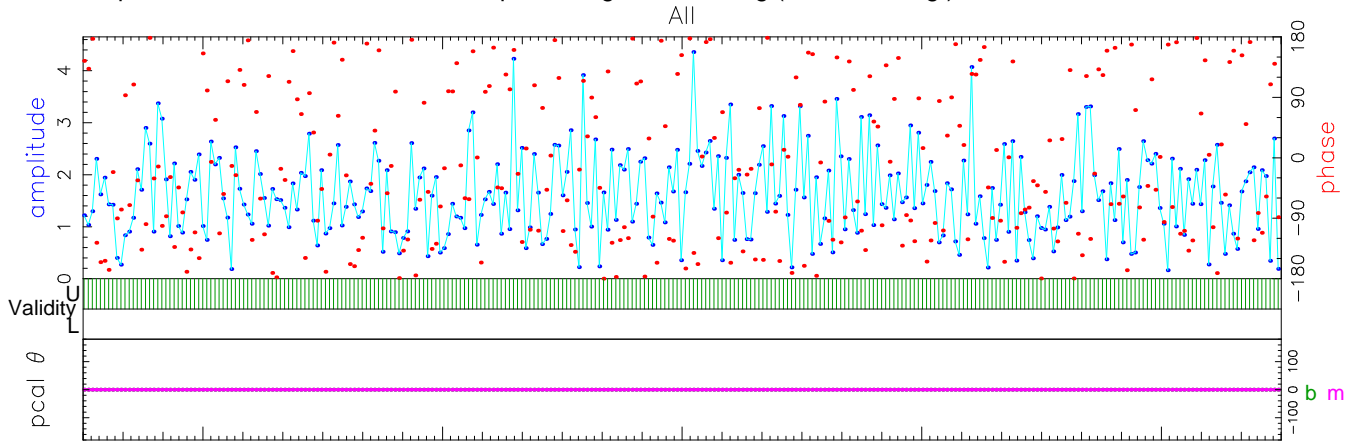


Fringe quality 8

SNR 9.7
Int time 299.958
Amp 1.551
Phase 254.5
PFD 6.0e-15
Delays (us)
SBD -0.300320
MBD 0.000004
Fringe rate (Hz)
0.577005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-151.6
0.5
1522.6
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UL

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

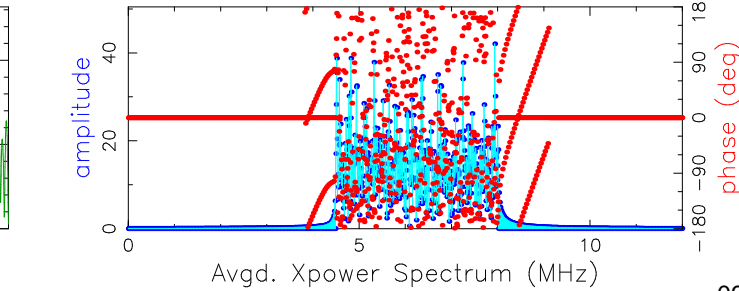
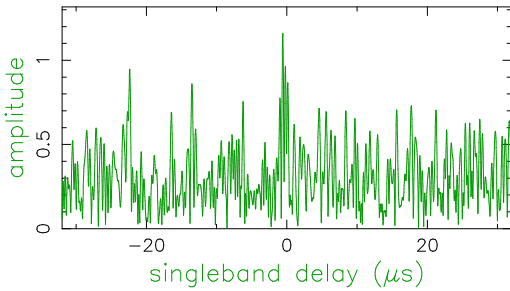
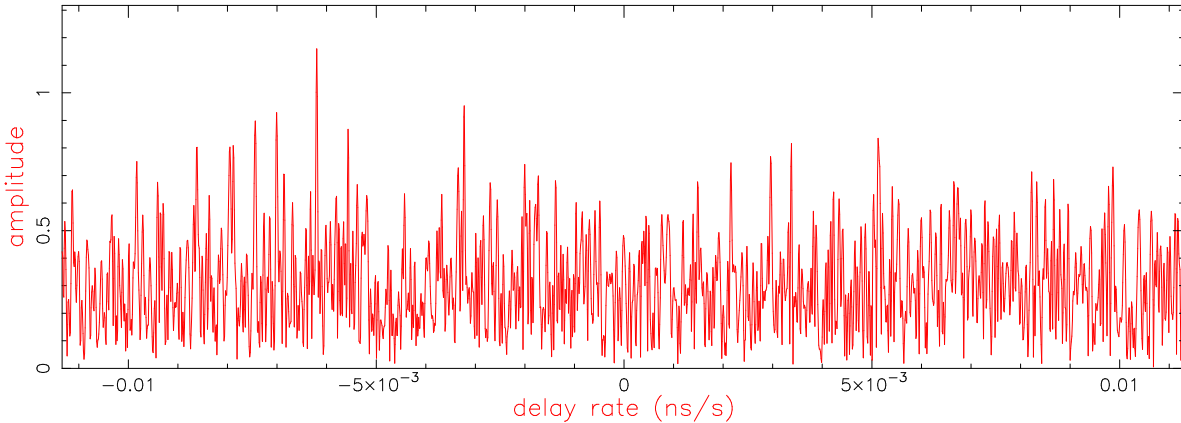
Chan ids
Chan ids

Group delay (usec)(sbd)	8.52492501846E+03	Apriori delay (usec)	8.52522533767E+03	Resid mbdelay (usec)	4.35485E-06	+/-	4.7E-03
Sband delay (usec)	8.52492501767E+03	Apriori clock (usec)	-1.8707743E+01	Resid sbdelay (usec)	-3.00320E-01	+/-	4.7E-03
Phase delay (usec)	8.52522533278E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.88847E-06	+/-	3.8E-07
Delay rate (us/s)	-6.62758990897E-01	Apriori rate (us/s)	-6.62765689357E-01	Resid rate (us/s)	6.69846E-06	+/-	2.2E-09
Total phase (deg)	105.8	Apriori accel (us/s/s)	-1.95821031084E-05	Resid phase (deg)	254.5	+/-	11.8

ph/seg (deg)	RMS 90.1	Theor. 101.1	Amplitude Search (2048X8)	1.551 +/- 0.160	1.324	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.4	176.5	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.732	24	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.540	48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

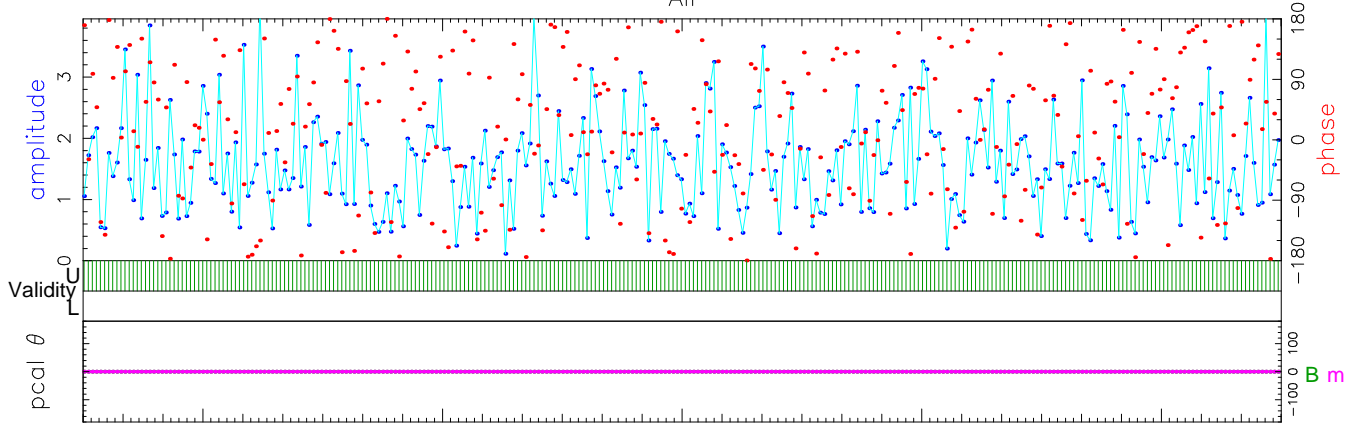
b: az 107.5 el 62.2 pa -50.8 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 4574.089 1881.832 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bm.W.56.1T5GU7

Fringe quality 8



SNR 8.4
Int time 299.980
Amp 1.317
Phase 120.0
PFD 6.3e-10
Delays (us)
SBD -0.576269
MBD -0.000007
Fringe rate (Hz)
-0.533755
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
71.6
0.4
1509.3
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UL
m W03UR

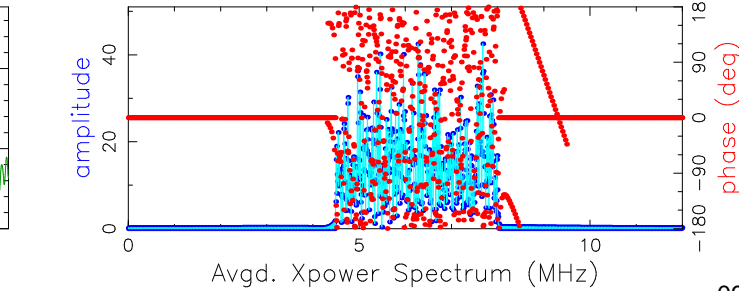
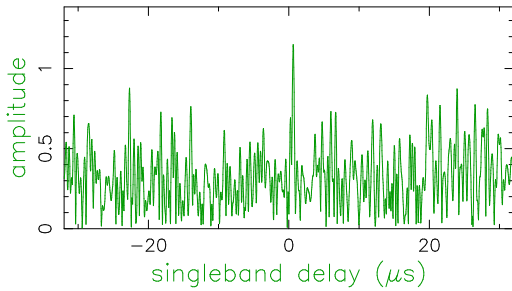
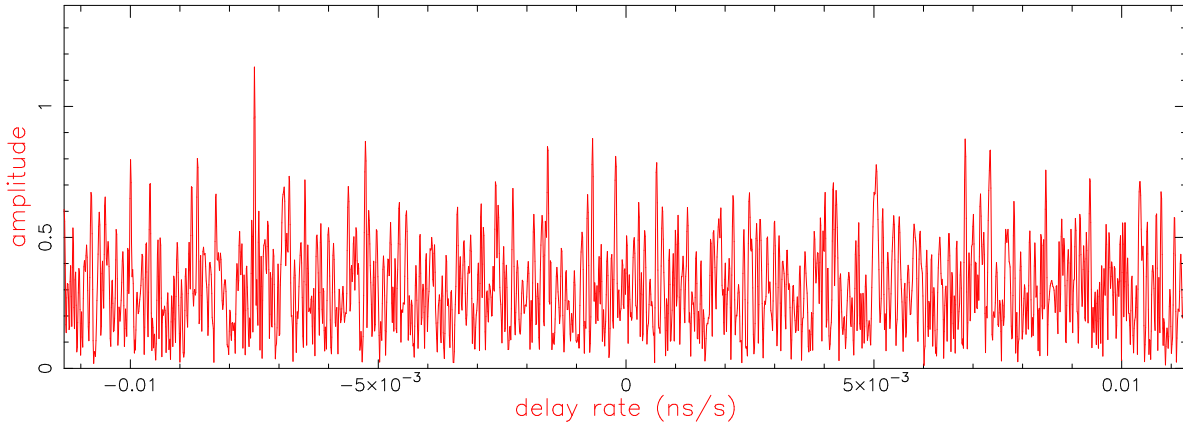
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.04357474969E+03	Apriori delay (usec)	-2.04299848443E+03	Resid mbdelay (usec)	-7.23964E-06	+/-	5.5E-03
Sband delay (usec)	-2.04357475377E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-5.76269E-01	+/-	5.5E-03
Phase delay (usec)	-2.04299848212E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.30835E-06	+/-	4.4E-07
Delay rate (us/s)	-1.92751651619E+00	Apriori rate (us/s)	-1.92751031983E+00	Resid rate (us/s)	-6.19637E-06	+/-	2.5E-09
Total phase (deg)	318.4	Apriori accel (us/s/s)	3.82530048161E-05	Resid phase (deg)	120.0	+/-	13.6

ph/seg (deg)	RMS 93.4	Theor. 116.5	Amplitude 1.317 +/- 0.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.7	203.3	Search (2048X8) 1.136	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.9	Inc. seg. avg. 0.594	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.306	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

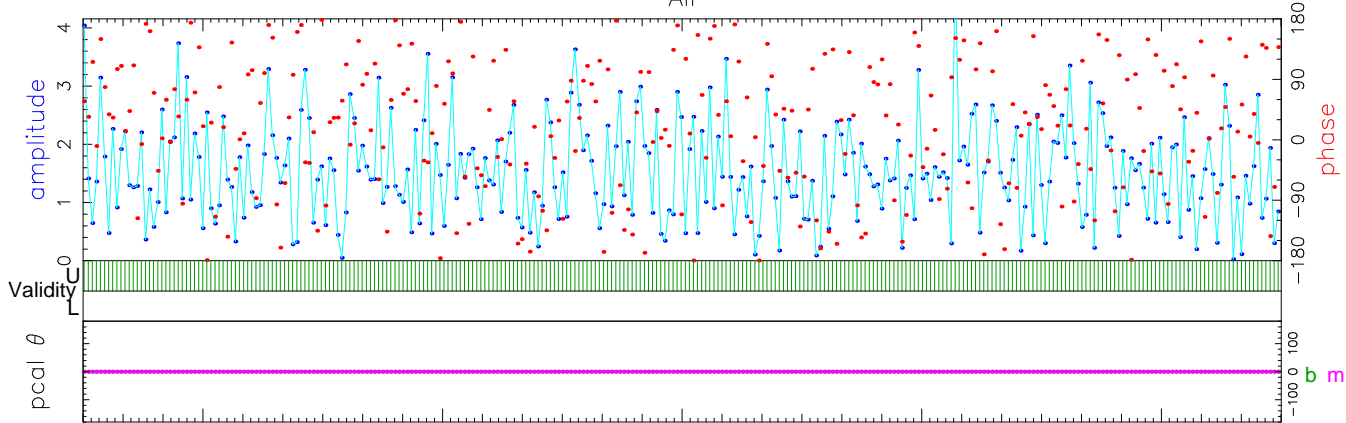
B: az 296.1 el 23.6 pa 43.8 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 13421.636 5140.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bm.W.58.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.958
Amp 1.386
Phase -115.4
PFD 1.2e-09
Delays (us)
SBD 0.626248
MBD -0.000004
Fringe rate (Hz)
-0.644822
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
58.9
0.4
1567.1
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UR

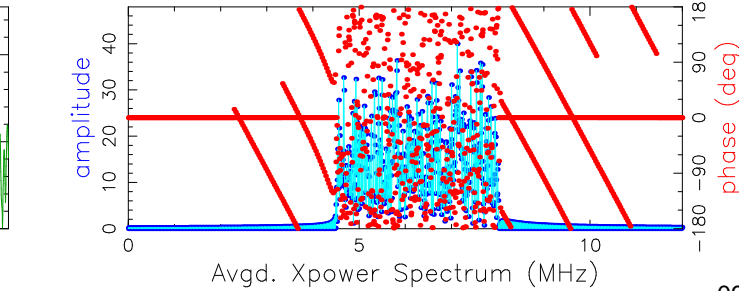
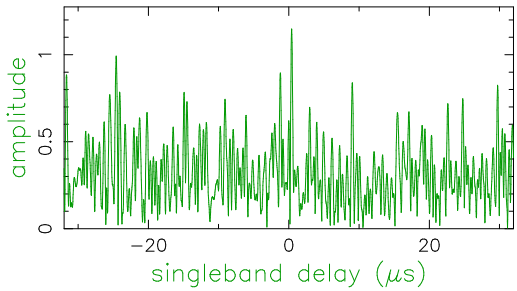
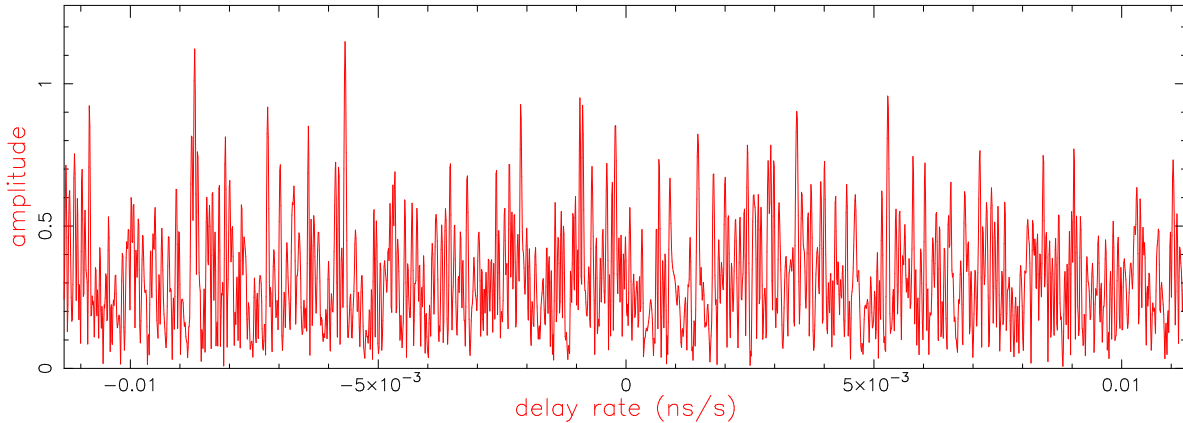
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.52585158719E+03	Apriori delay (usec)	8.52522533767E+03	Resid mbdelay (usec)	-4.43550E-06	+/- 5.5E-03
Sband delay (usec)	8.52585158567E+03	Apriori clock (usec)	-1.8707743E+01	Resid sbdelay (usec)	6.26248E-01	+/- 5.5E-03
Phase delay (usec)	8.52522533957E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.89906E-06	+/- 4.4E-07
Delay rate (us/s)	-6.62773175097E-01	Apriori rate (us/s)	-6.62765689357E-01	Resid rate (us/s)	-7.48574E-06	+/- 2.6E-09
Total phase (deg)	-264.1	Apriori accel (us/s/s)	-1.95821031084E-05	Resid phase (deg)	-115.4	+/- 13.7

ph/seg (deg)	RMS 92.6	Theor. 117.6	Amplitude 1.386 +/- 0.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.5	205.2	Search (2048X8) 1.139	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. seg. avg. 0.599	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.376	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

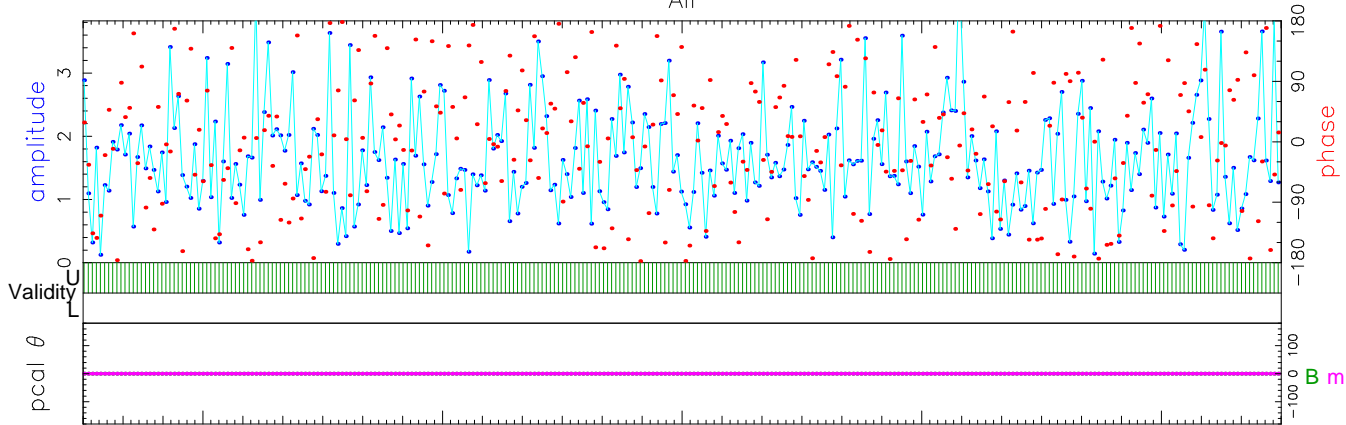
b: az 107.5 el 62.2 pa -50.8 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 4574.089 1881.832 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bm.W.64.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.980
Amp 1.275
Phase -340.7
PFD 1.4e-09
Delays (us)
SBD 0.401457
MBD -0.000007
Fringe rate (Hz)
-0.487342
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-6.9
0.4
1556.3
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UR
m W03UL

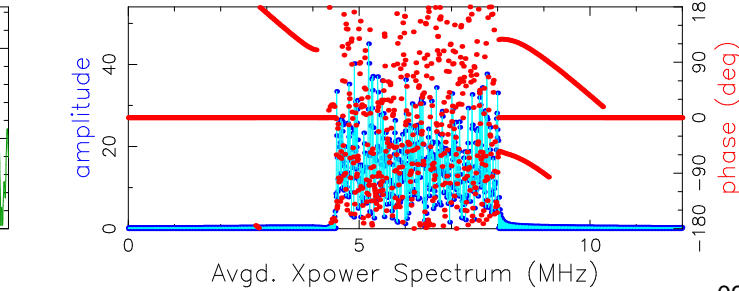
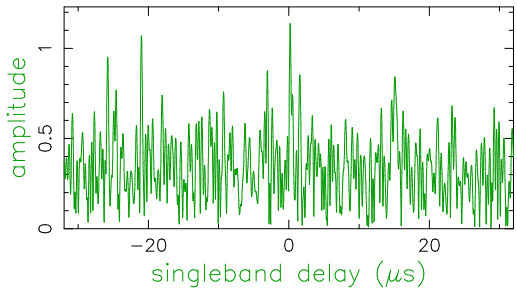
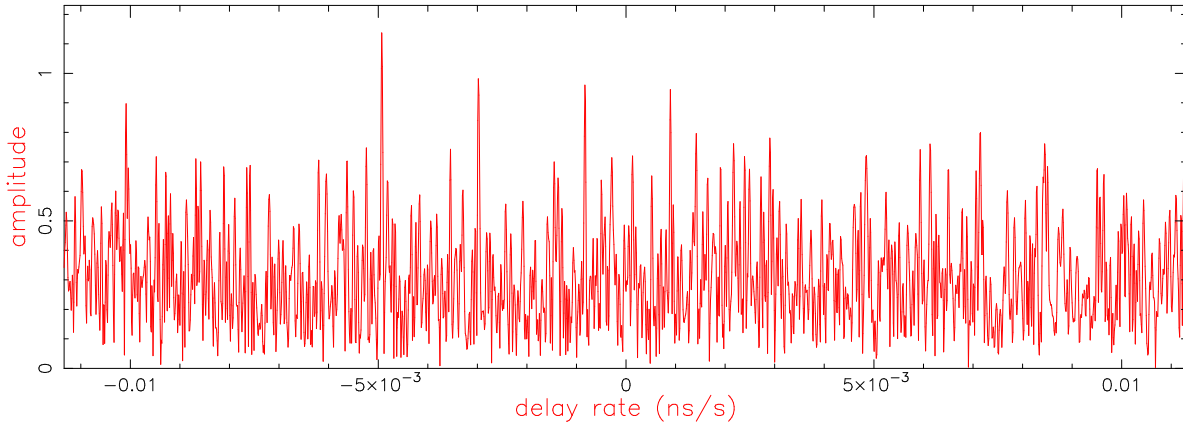
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.04259702809E+03	Apriori delay (usec)	-2.04299848443E+03	Resid mbdelay (usec)	-7.23694E-06	+/- 5.5E-03
Sband delay (usec)	-2.04259702710E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	4.01457E-01	+/- 5.5E-03
Phase delay (usec)	-2.04299848465E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.21477E-07	+/- 4.4E-07
Delay rate (us/s)	-1.92751597739E+00	Apriori rate (us/s)	-1.92751031983E+00	Resid rate (us/s)	-5.65756E-06	+/- 2.6E-09
Total phase (deg)	-142.3	Apriori accel (us/s/s)	3.82530048161E-05	Resid phase (deg)	-340.7	+/- 13.8

ph/seg (deg)	RMS 95.9	Theor. 117.8	Amplitude Search (2048X8)	1.275 +/- 0.153	1.146	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	83.4	205.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.590	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.265	Data rate(Mb/s): 48	nlags: 1536	t_cohere infinite	ion window (TEC)	0.00	0.00

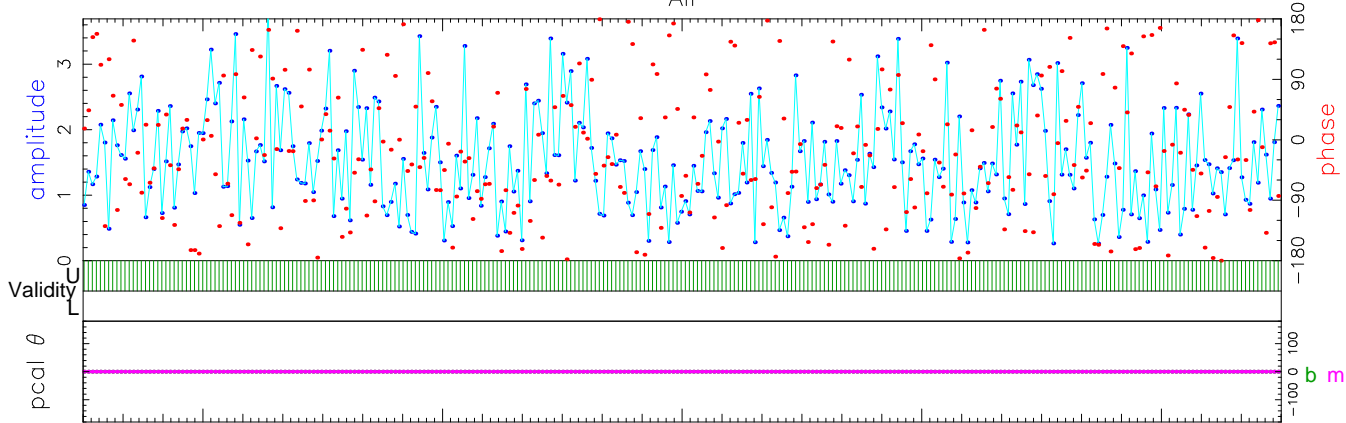
B: az 296.1 el 23.6 pa 43.8 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 13421.636 5140.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bm.W.73.1T5GU7

Fringe quality 8



SNR 8.2
Int time 299.958
Amp 1.230
Phase -192.1
PFD 2.7e-09
Delays (us)
SBD 0.189287
MBD -0.000007
Fringe rate (Hz)
-0.423679
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-23.5
0.4
1546.1
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UR

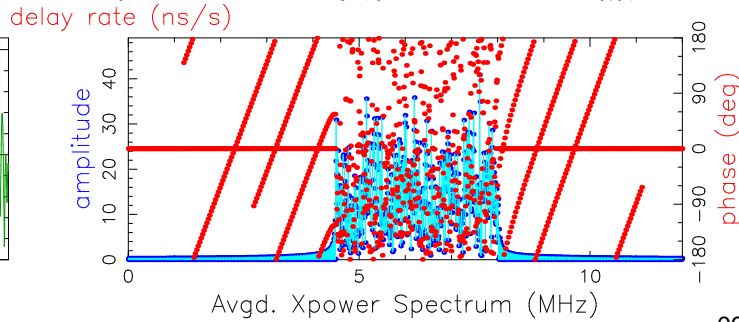
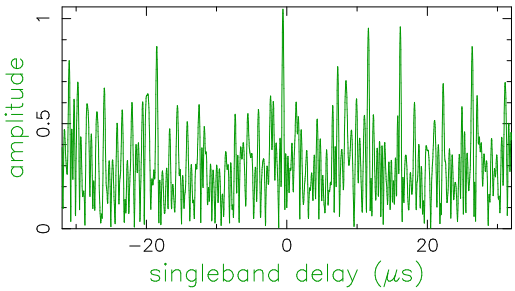
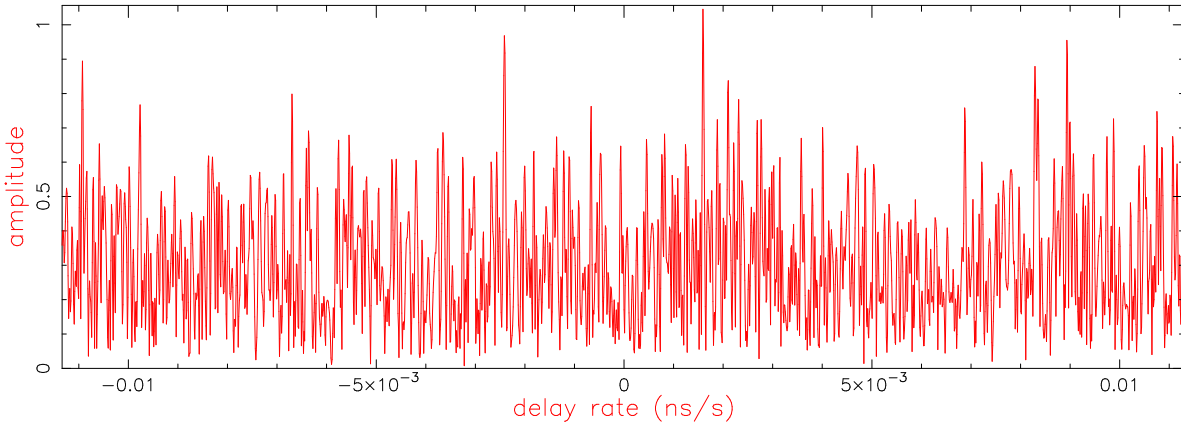
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.52541462218E+03	Apriori delay (usec)	8.52522533767E+03	Resid mbdelay (usec)	-6.54737E-06	+/- 5.6E-03
Sband delay (usec)	8.52541462434E+03	Apriori clock (usec)	-1.8707743E+01	Resid sbdelay (usec)	1.89287E-01	+/- 5.6E-03
Phase delay (usec)	8.52522533691E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-7.57879E-07	+/- 4.5E-07
Delay rate (us/s)	-6.62770607851E-01	Apriori rate (us/s)	-6.62765689357E-01	Resid rate (us/s)	-4.91849E-06	+/- 2.6E-09
Total phase (deg)	-340.8	Apriori accel (us/s/s)	-1.95821031084E-05	Resid phase (deg)	-192.1	+/- 13.9

ph/seg (deg)	RMS 94.4	Theor. 118.9	Amplitude Search (2048X8)	1.230 +/- 0.149	1.124	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.2	207.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.528	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.221	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				b: az 107.5 el 62.2 pa -50.8	m: az 60.8 el 28.5 pa -84.9	u,v (fr/asec) 4574.089 1881.832	ion window (TEC) 0.00 0.00

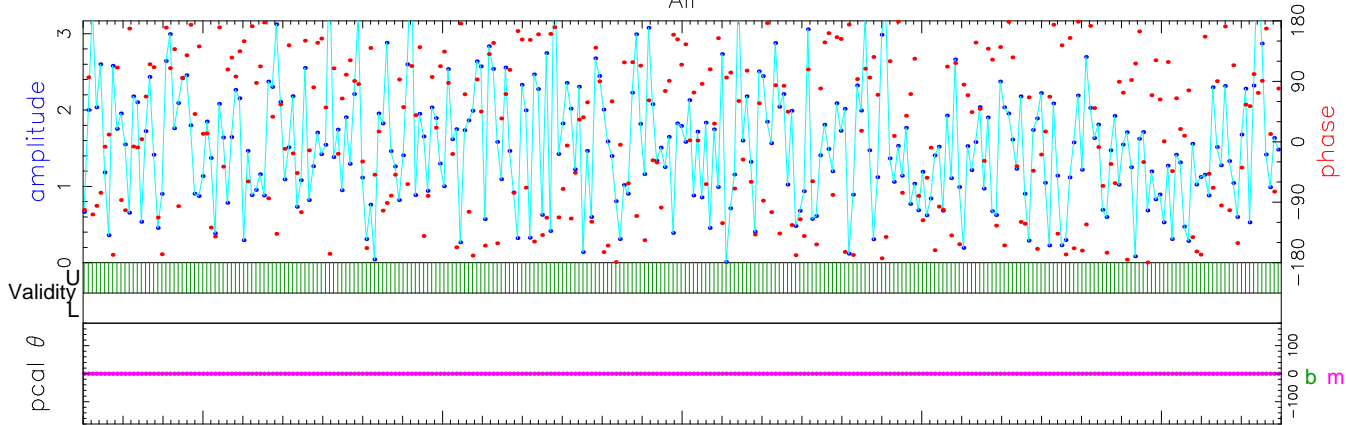
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bm.W.78.1T5GU7 simultaneous interpolator

Fringe quality 8



SNR 7.6
Int time 299.958
Amp 1.056
Phase 162.3
PFD 4.6e-07
Delays (us)
SBD -0.552572
MBD 0.000005
Fringe rate (Hz)
0.137212
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



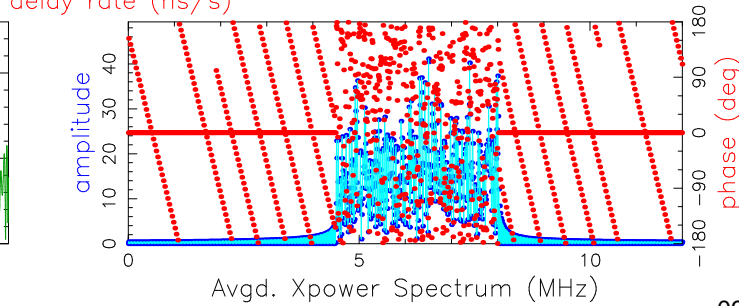
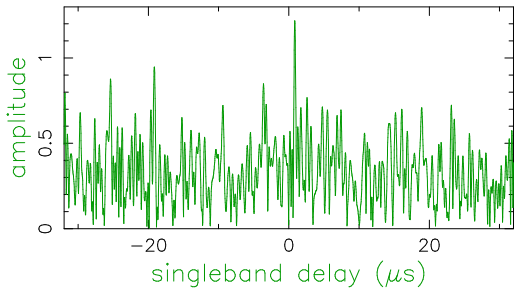
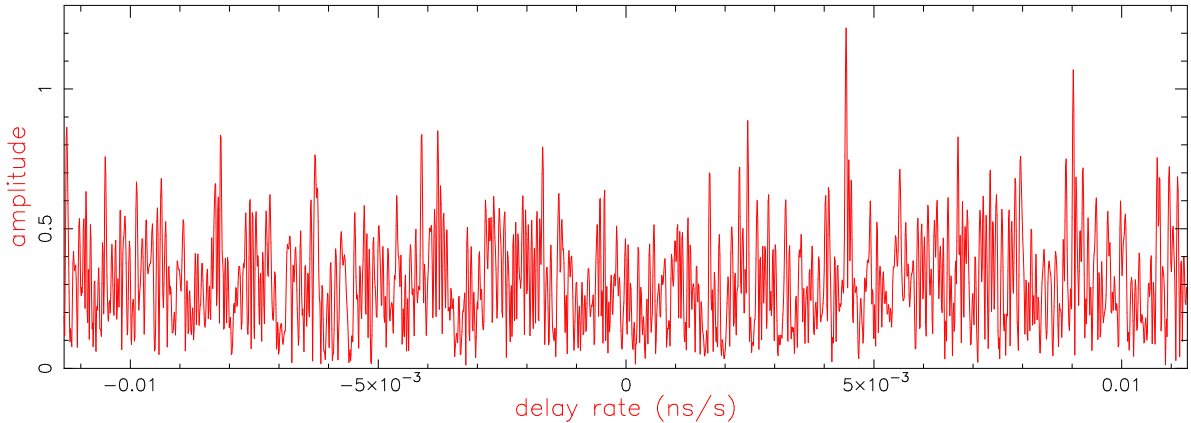
86227.00
135.6
0.3
1510.5
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UL

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)	8.52467276625E+03	Apriori delay (usec)	8.52522533767E+03	Resid mbdelay (usec)	4.91679E-06	+/-	6.0E-03
Sband delay (usec)	8.52467276567E+03	Apriori clock (usec)	-1.8707743E+01	Resid sbdelay (usec)	-5.52572E-01	+/-	6.0E-03
Phase delay (usec)	8.52522534204E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.37410E-06	+/-	4.9E-07
Delay rate (us/s)	-6.62764096459E-01	Apriori rate (us/s)	-6.62765689357E-01	Resid rate (us/s)	1.59290E-06	+/-	2.8E-09
Total phase (deg)	13.6	Apriori accel (us/s/s)	-1.95821031084E-05	Resid phase (deg)	162.3	+/-	15.1

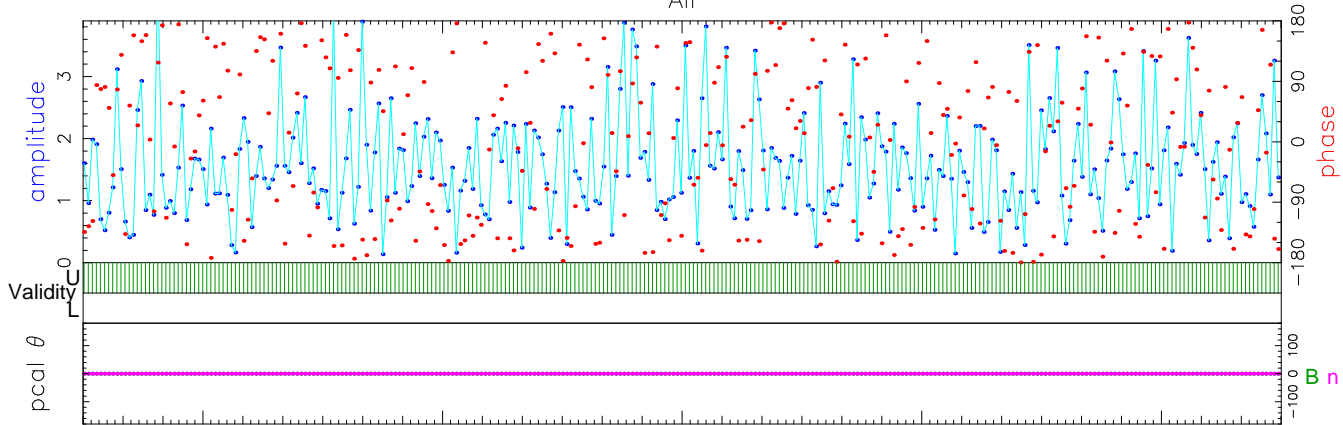
ph/seg (deg)	RMS 93.3	Theor. 129.1	Amplitude Search (2048X8)	1.056 +/- 0.139	1.036	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.5	225.3	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.5	Inc. seg. avg.	0.441	0.441	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	13.2	Inc. frq. avg.	1.045	1.045	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				b: az 107.5 el 62.2 pa -50.8	m: az 60.8 el 28.5 pa -84.9	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) 4574.089 1881.832		nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.8
Int time 299.972
Amp 1.299
Phase -176.5
PFD 1.7e-11
Delays (us)
SBD 0.849708
MBD 0.000005
Fringe rate (Hz)
0.382184
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
156.0
0.4
1577.8
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UL
n W03UL

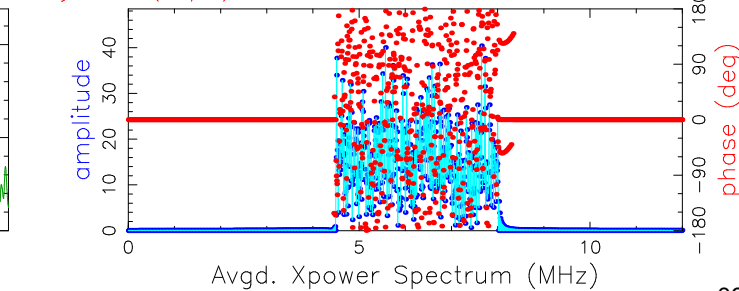
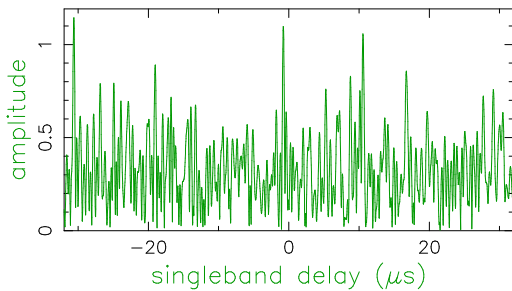
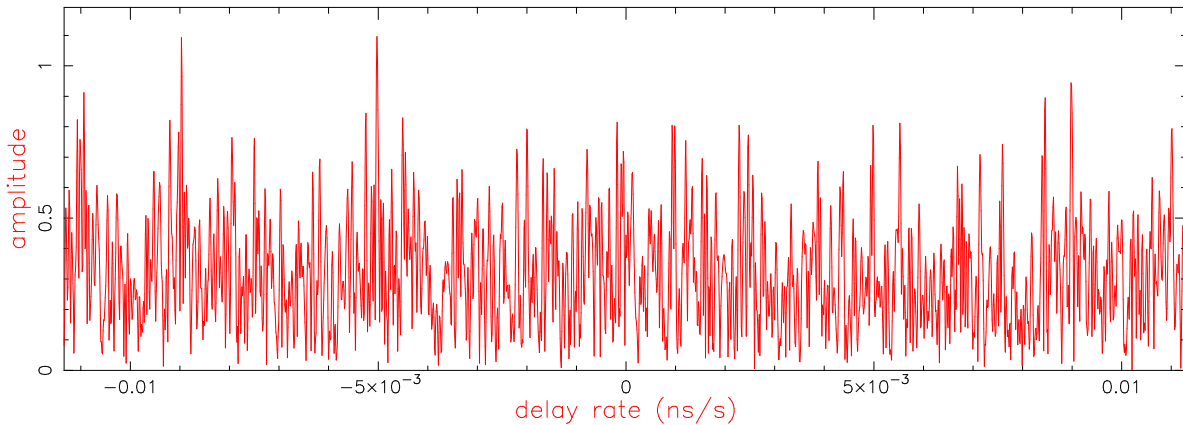
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.27495426094E+04	Apriori delay (usec)	-1.27503923131E+04	Resid mbdelay (usec)	4.60413E-06	+/-	5.2E-03
Sband delay (usec)	-1.27495426051E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	8.49708E-01	+/-	5.2E-03
Phase delay (usec)	-1.27503923081E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.03205E-06	+/-	4.2E-07
Delay rate (us/s)	-8.75655813952E-01	Apriori rate (us/s)	-8.75660250733E-01	Resid rate (us/s)	4.43678E-06	+/-	2.4E-09
Total phase (deg)	-122.6	Apriori accel (us/s/s)	7.44057924482E-05	Resid phase (deg)	-176.5	+/-	13.0

ph/seg (deg)	91.8	Theor.	110.9	Amplitude	1.299 +/- 0.147	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.0	Search (2048X8)	1.202	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.585	Inc. frq. avg.	1.291	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.291			Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

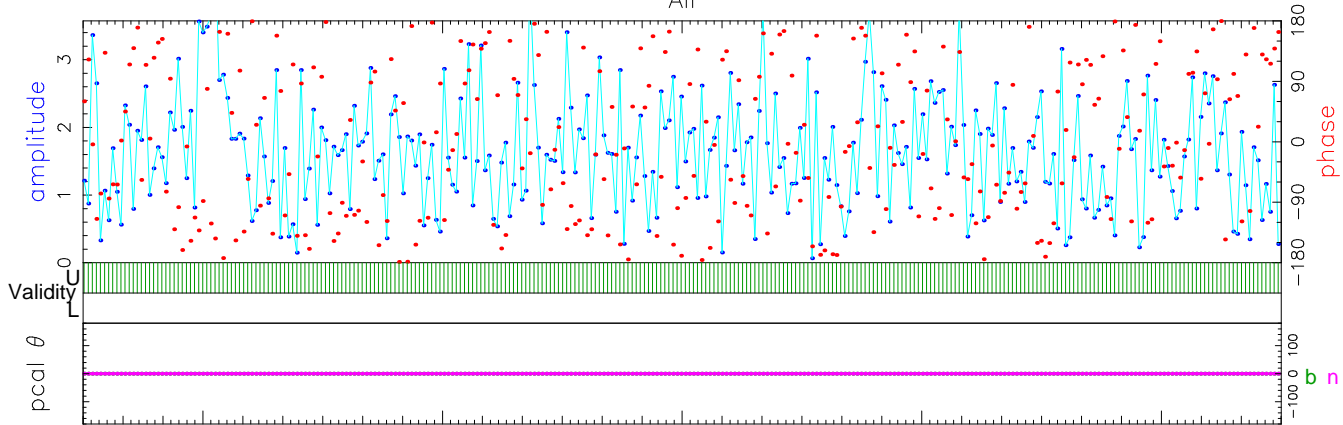
B: az 296.1 el 23.6 pa 43.8 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 6164.968 4741.585 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bn.W.31.1T5GU7

Fringe quality 8



SNR 8.0
Int time 299.955
Amp 1.192
Phase 235.4
PFD 2.7e-08
Delays (us)
SBD -0.782659
MBD -0.000005
Fringe rate (Hz)
-0.432086
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-157.3
0.3
67.7
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UL

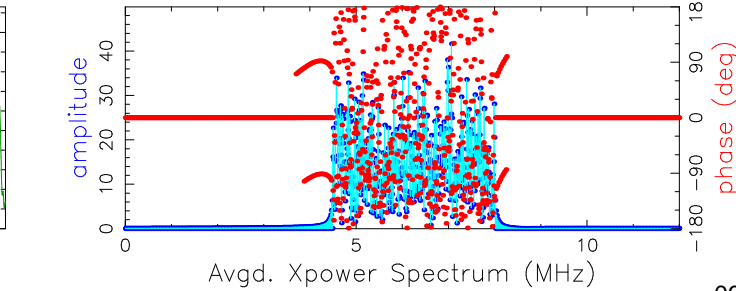
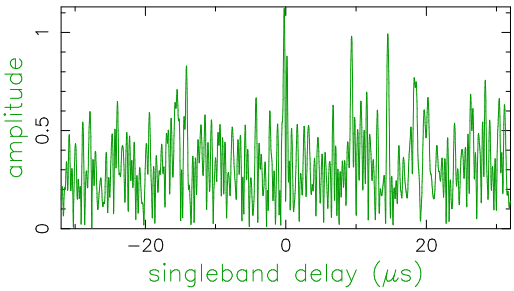
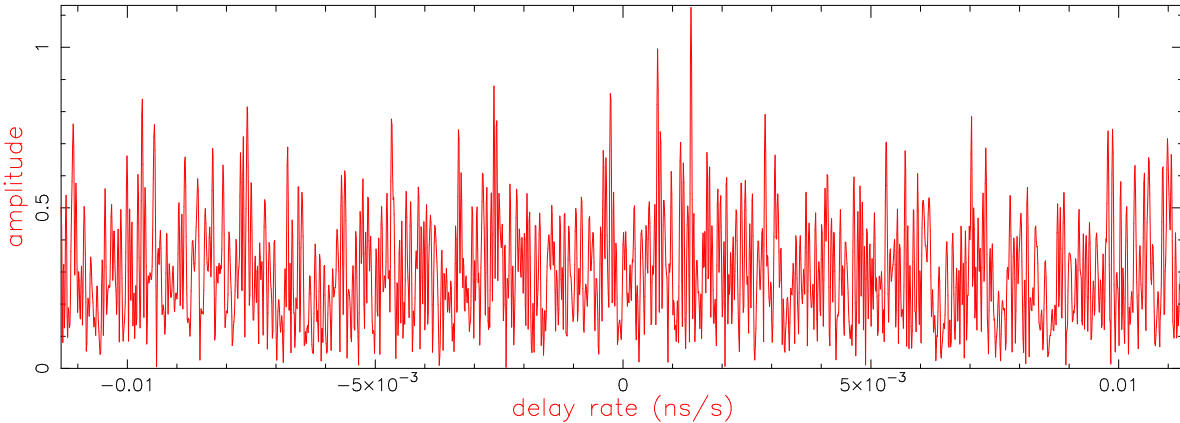
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.18295115084E+03	Apriori delay (usec)	-2.18216849099E+03	Resid mbdelay (usec)	-4.76473E-06	+/- 5.8E-03
Sband delay (usec)	-2.18295114966E+03	Apriori clock (usec)	-8.4747429E+00	Resid sbdelay (usec)	-7.82659E-01	+/- 5.8E-03
Phase delay (usec)	-2.18216849607E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-5.07337E-06	+/- 4.6E-07
Delay rate (us/s)	3.89079363648E-01	Apriori rate (us/s)	3.89084379736E-01	Resid rate (us/s)	-5.01609E-06	+/- 2.7E-09
Total phase (deg)	302.3	Apriori accel (us/s/s)	1.65706845238E-05	Resid phase (deg)	235.4	+/- 14.4

ph/seg (deg)	RMS 95.1	Theor. 123.2	Amplitude Search (2048X8)	1.192 +/- 0.150	1.093	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	91.1	215.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.541	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.6	Inc. frq. avg.	1.180	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
b: az 107.5 el 62.2 pa -50.8	n: az 152.7 el 81.8 pa -23.5	u,v (fr/asec) -2682.578 1482.583					ion window (TEC) 0.00 0.00

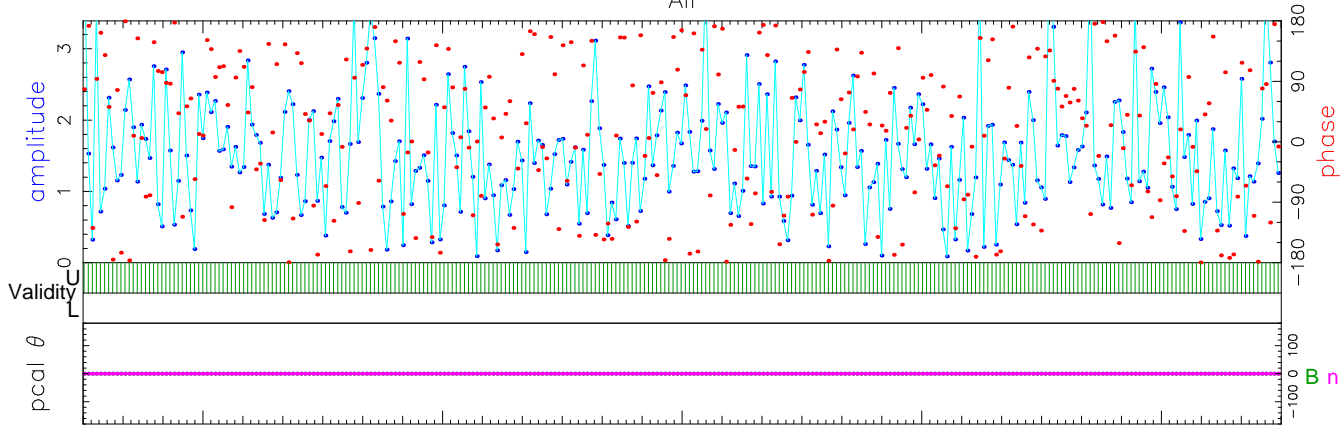
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bn.W.37.1T5GU7 simultaneous interpolator

Fringe quality 8



SNR 8.1
Int time 299.972
Amp 1.131
Phase 147.6
PFD 6.0e-09
Delays (us)
SBD -0.231049
MBD 0.000005
Fringe rate (Hz)
0.118036
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
111.0
0.3
1525.9
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UR
n W03UR

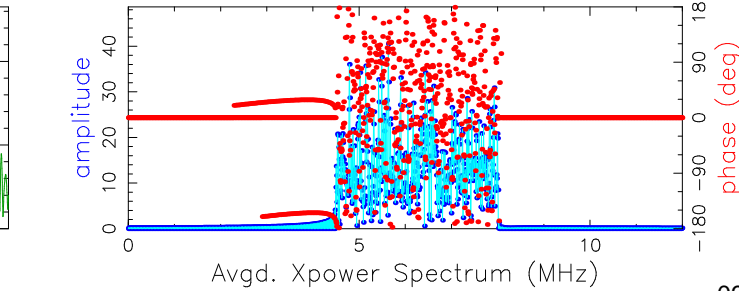
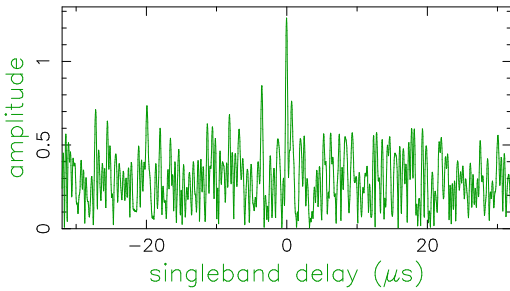
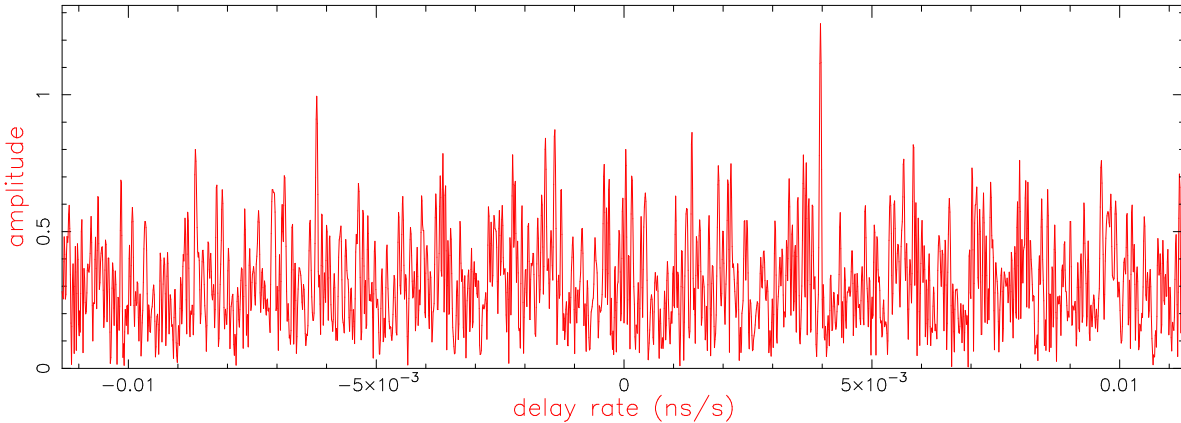
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.27506233613E+04	Apriori delay (usec)	-1.27503923131E+04	Resid mbdelay (usec)	4.68967E-06	+/-	5.6E-03
Sband delay (usec)	-1.27506233624E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-2.31049E-01	+/-	5.6E-03
Phase delay (usec)	-1.27503923095E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.58061E-06	+/-	4.5E-07
Delay rate (us/s)	-8.75658880456E-01	Apriori rate (us/s)	-8.75660250733E-01	Resid rate (us/s)	1.37028E-06	+/-	2.6E-09
Total phase (deg)	201.6	Apriori accel (us/s/s)	7.44057924482E-05	Resid phase (deg)	147.6	+/-	14.1

ph/seg (deg)	RMS 93.8	Theor. 120.3	Amplitude Search (2048X8)	1.131 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.2	210.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.483	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.122	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
					nlags: 1536 t_cohere infinite	

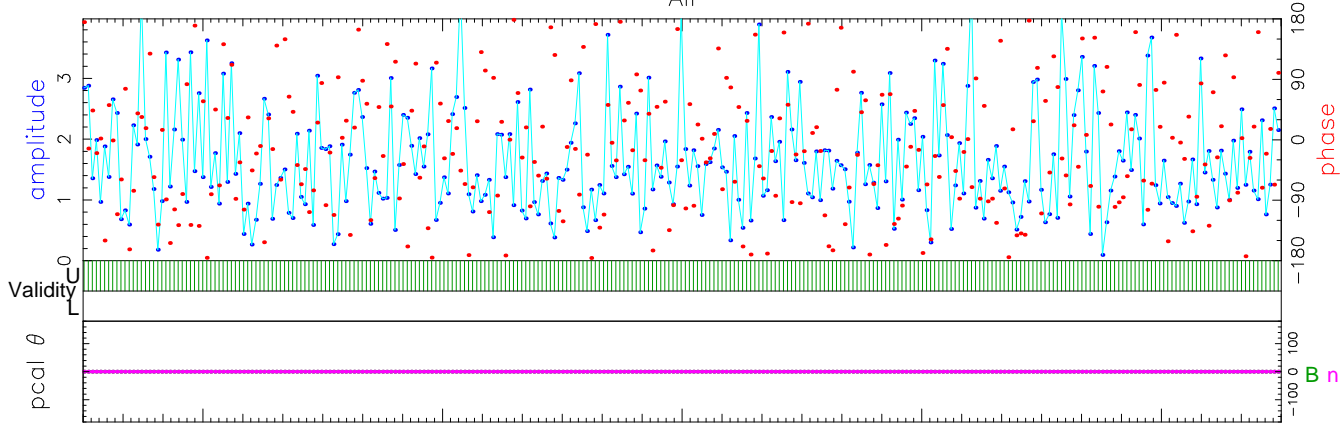
B: az 296.1 el 23.6 pa 43.8 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 6164.968 4741.585 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bn.W.41.1T5GU7

Fringe quality 8



SNR 9.1
Int time 299.972
Amp 1.327
Phase 21.0
PFD 1.1e-12
Delays (us)
SBD -0.036059
MBD 0.000007
Fringe rate (Hz)
0.341267
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-28.7
0.4
1535.3
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UL
n W03UR

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

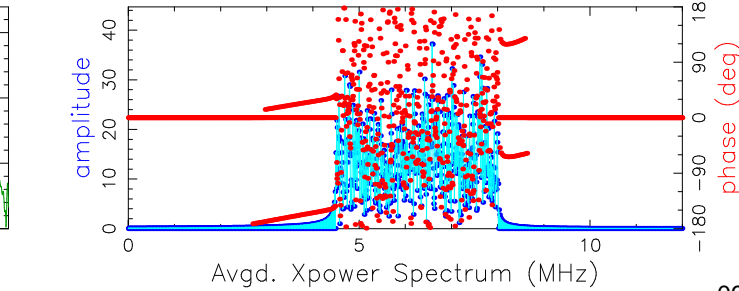
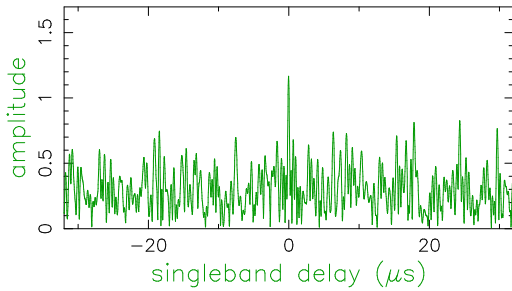
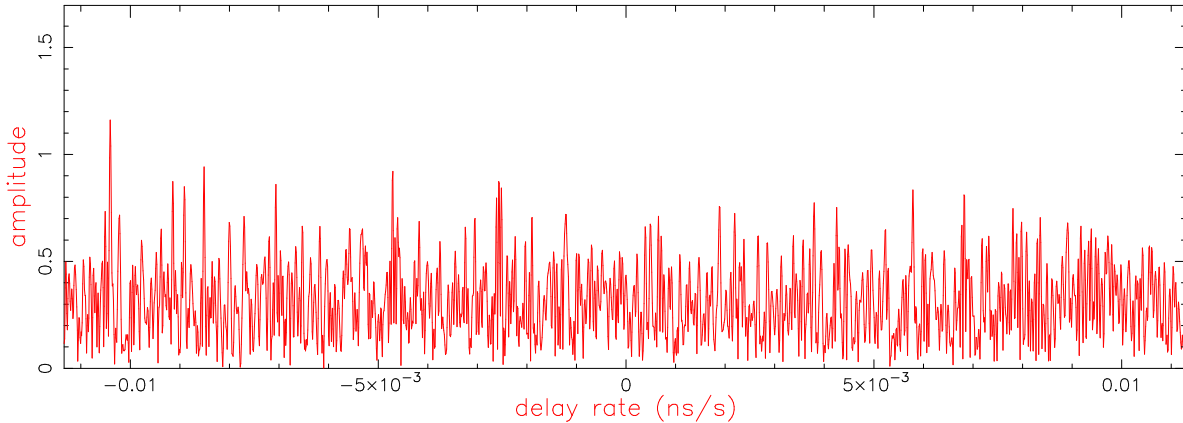
Group delay (usec)(sbd)	-1.27504283737E+04	Apriori delay (usec)	-1.27503923131E+04	Resid mbdelay (usec)	6.93732E-06	+/-	5.0E-03
Sband delay (usec)	-1.27504283718E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-3.60587E-02	+/-	5.0E-03
Phase delay (usec)	-1.27503923140E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.24097E-07	+/-	4.0E-07
Delay rate (us/s)	-8.75656288967E-01	Apriori rate (us/s)	-8.75660250733E-01	Resid rate (us/s)	3.96177E-06	+/-	2.3E-09
Total phase (deg)	74.9	Apriori accel (us/s/s)	7.44057924482E-05	Resid phase (deg)	21.0	+/-	12.5

ph/seg (deg)	RMS 90.7	Theor. 107.2	Amplitude Search (2048X8)	1.327 +/- 0.145	1.247	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.8	187.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.630	0.630	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.318	1.318	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 296.1 el 23.6 pa 43.8 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 6164.968 4741.585 simultaneous interpolator

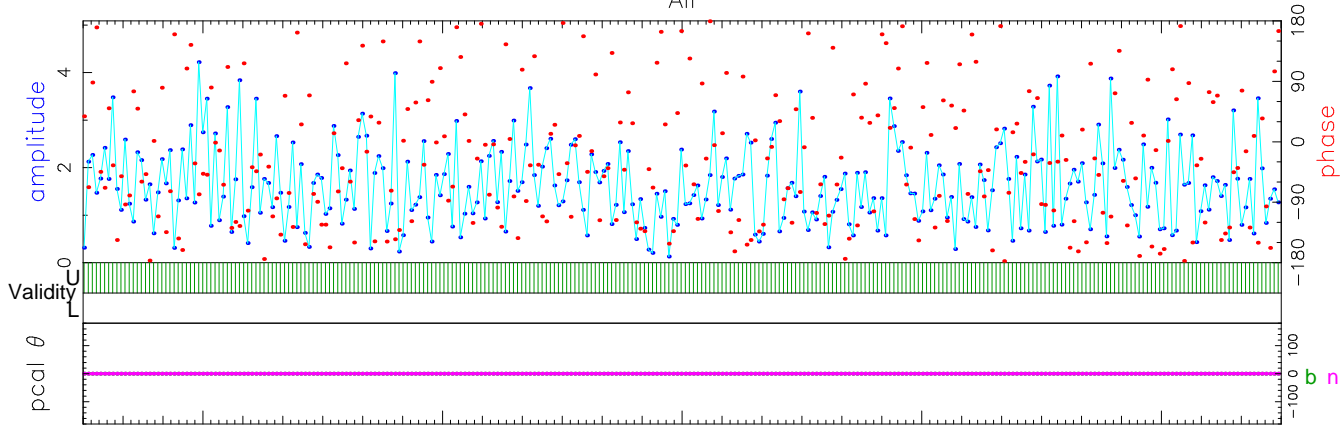
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bn.W.48.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.955
Amp 1.697
Phase 317.4
PFD 4.4e-10
Delays (us)
SBD -0.035201
MBD -0.000004
Fringe rate (Hz)
-0.895974
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-65.0
0.5
1535.3
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UR

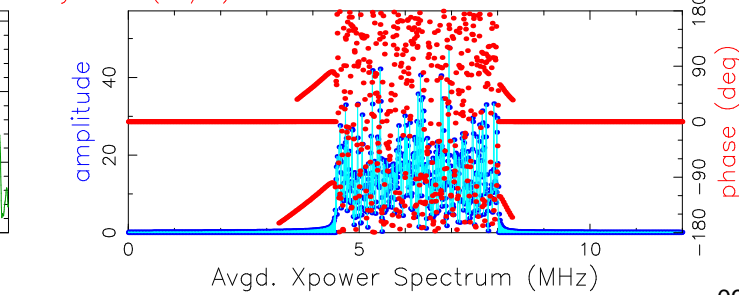
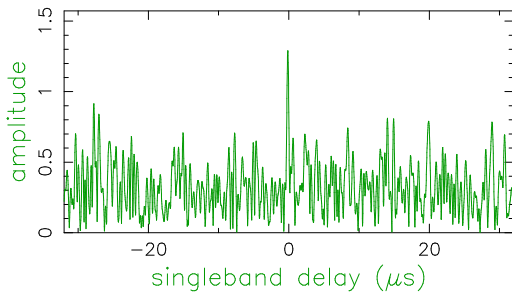
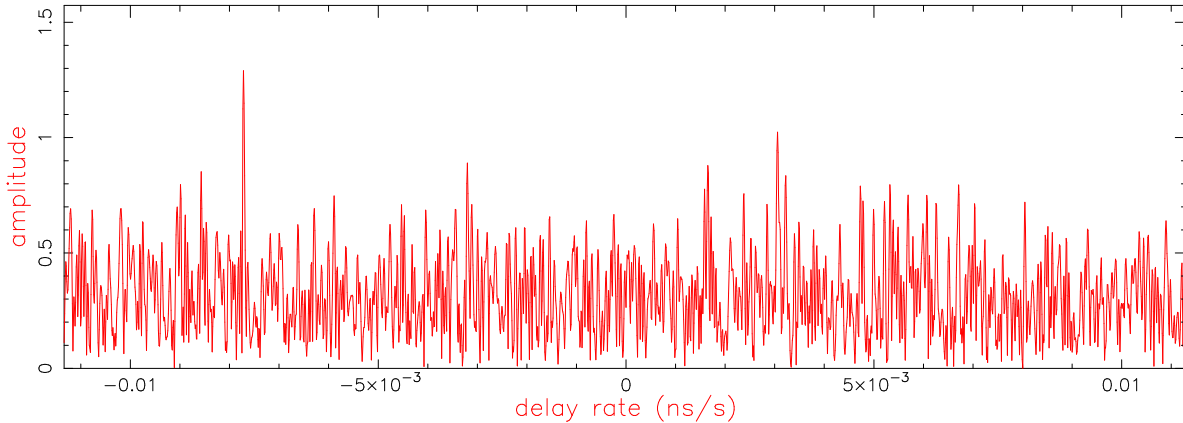
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.18220369314E+03	Apriori delay (usec)	-2.18216849099E+03	Resid mbdelay (usec)	-4.35189E-06	+/- 5.4E-03
Sband delay (usec)	-2.18220369233E+03	Apriori clock (usec)	-8.4747429E+00	Resid sbdelay (usec)	-3.52013E-02	+/- 5.4E-03
Phase delay (usec)	-2.18216849309E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.09587E-06	+/- 4.4E-07
Delay rate (us/s)	3.89073978366E-01	Apriori rate (us/s)	3.89084379736E-01	Resid rate (us/s)	-1.04014E-05	+/- 2.5E-09
Total phase (deg)	24.3	Apriori accel (us/s/s)	1.65706845238E-05	Resid phase (deg)	317.4	+/- 13.5

ph/seg (deg)	RMS 92.4	Theor. 115.9	Amplitude Search (2048X8)	1.697 +/- 0.200	1.130	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.9	202.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.779	Bits/sample: 2x2	ion window (TEC)	0.00 0.00
amp/frq (%)	70.9	11.8	Inc. frq. avg.	1.676	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011
				Data rate(Mb/s): 48		nlags: 1536 t_cohere infinite	

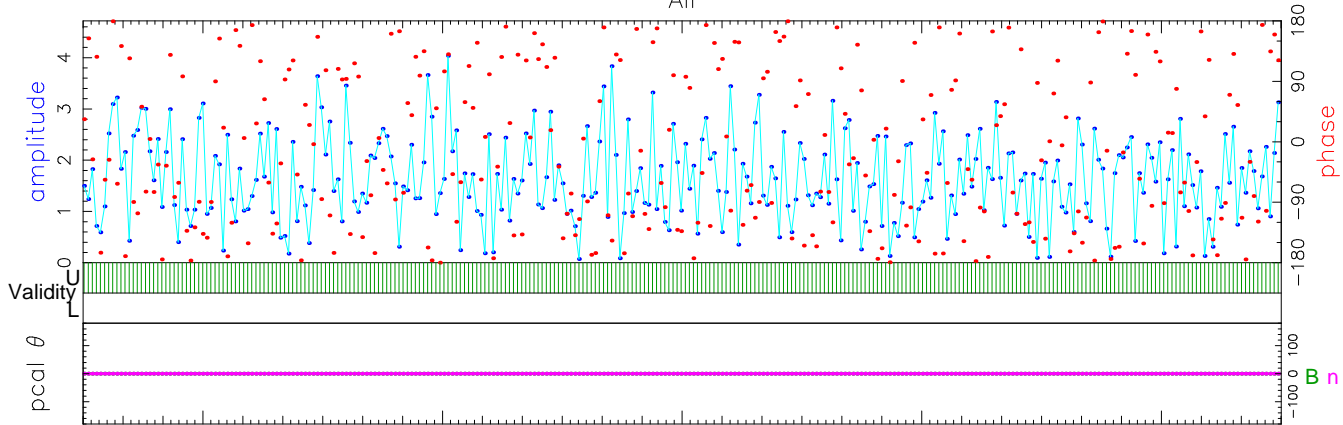
b: az 107.5 el 62.2 pa -50.8 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) -2682.578 1482.583 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bn.W.66.1T5GU7

Fringe quality 8



SNR 9.4
Int time 299.972
Amp 1.573
Phase 24.0
PFD 1.6e-13
Delays (us)
SBD -0.143771
MBD -0.000006
Fringe rate (Hz)
-0.664402
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-158.6
0.5
1530.1
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UR
n W03UL

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

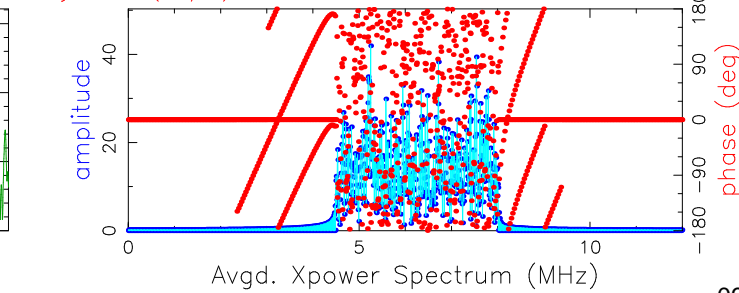
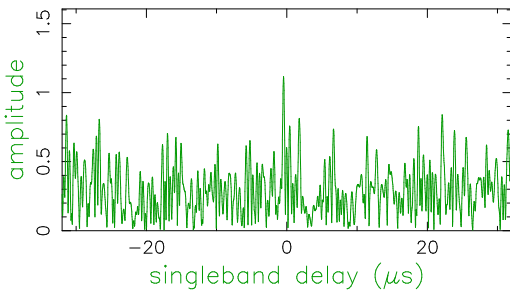
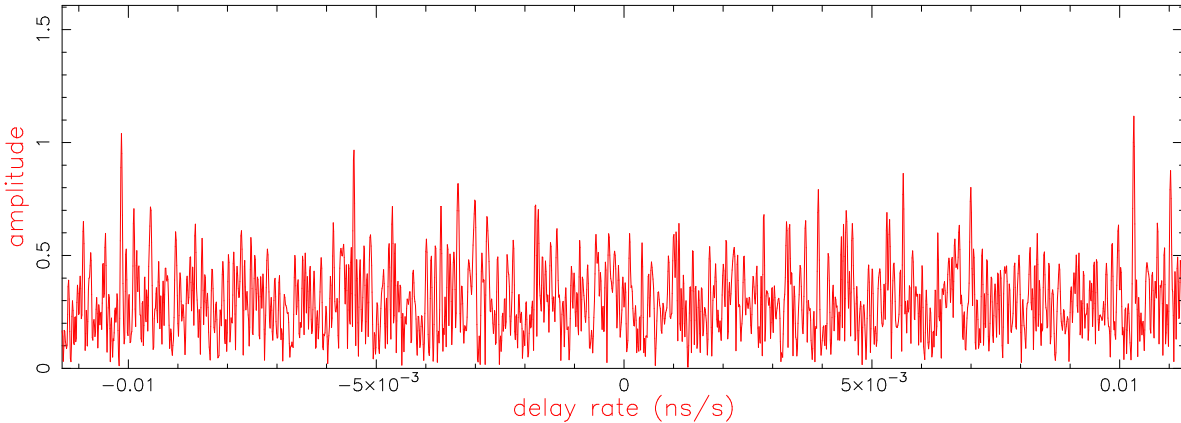
Group delay (usec)(sbd)	-1.27505360787E+04	Apriori delay (usec)	-1.27503923131E+04	Resid mbdelay (usec)	-5.54341E-06	+/-	4.9E-03
Sband delay (usec)	-1.27505360838E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-1.43771E-01	+/-	4.9E-03
Phase delay (usec)	-1.27503923182E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.11385E-06	+/-	3.9E-07
Delay rate (us/s)	-8.75667963778E-01	Apriori rate (us/s)	-8.75660250733E-01	Resid rate (us/s)	-7.71304E-06	+/-	2.3E-09
Total phase (deg)	77.9	Apriori accel (us/s/s)	7.44057924482E-05	Resid phase (deg)	24.0	+/-	12.2

ph/seg (deg)	RMS 90.7	Theor. 104.8	Amplitude Search (2048X8)	1.573 +/- 0.168	1.265	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.0	183.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.748	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.564	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
B: az 296.1 el 23.6 pa 43.8		n: az 152.7 el 81.8 pa -23.5		u,v (fr/asec) 6164.968 4741.585		ion window (TEC) 0.00 0.00	

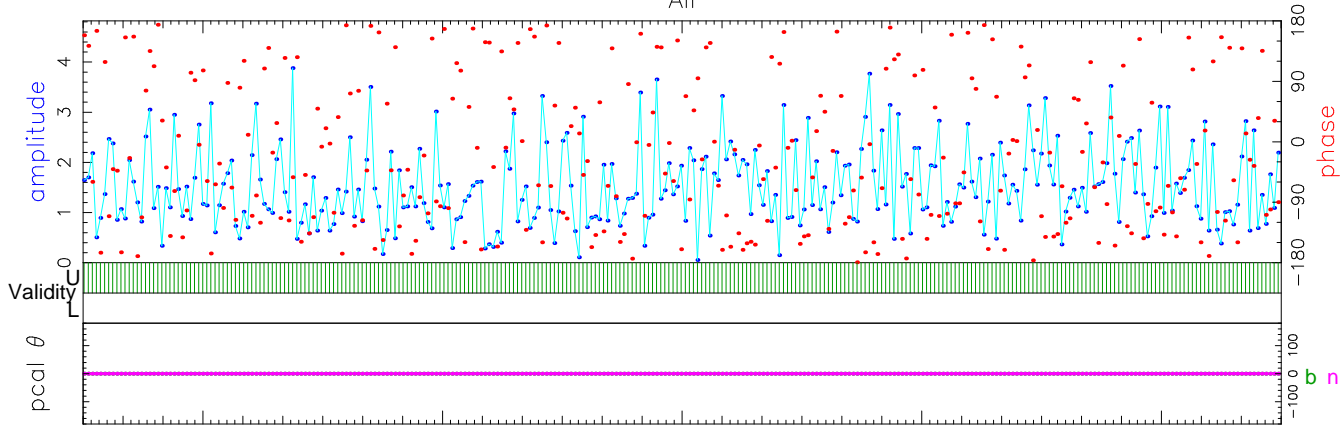
Fringe quality 8

SNR 8.1
Int time 299.955
Amp 1.608
Phase 353.1
PFD 8.9e-09
Delays (us)
SBD -0.463492
MBD 0.000005
Fringe rate (Hz)
0.884814
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



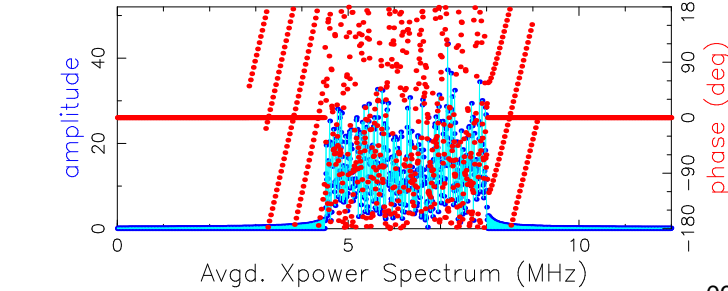
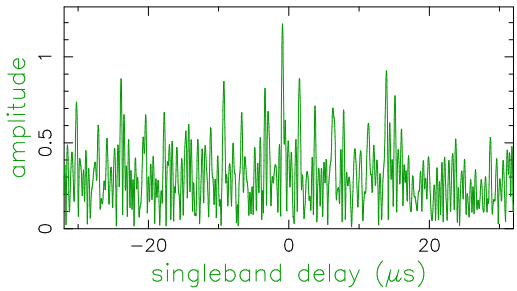
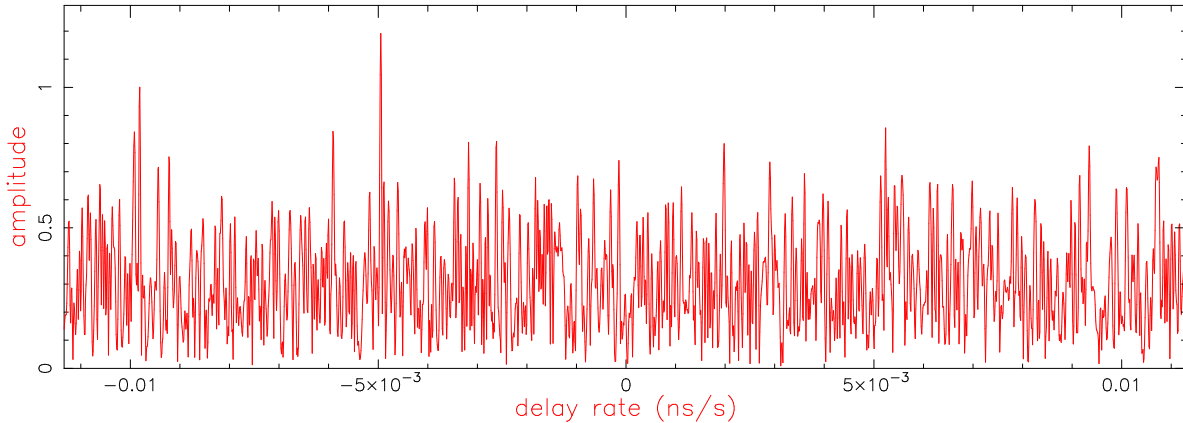
86227.00
-123.6
0.5
1514.8
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UR

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)	-2.18263198373E+03	Apriori delay (usec)	-2.18216849099E+03	Resid mbdelay (usec)	4.77642E-06	+/- 5.7E-03
Sband delay (usec)	-2.18263198299E+03	Apriori clock (usec)	-8.4747429E+00	Resid sbdelay (usec)	-4.63492E-01	+/- 5.7E-03
Phase delay (usec)	-2.18216849498E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.98612E-06	+/- 4.6E-07
Delay rate (us/s)	3.89094651545E-01	Apriori rate (us/s)	3.89084379736E-01	Resid rate (us/s)	1.02718E-05	+/- 2.6E-09
Total phase (deg)	60.0	Apriori accel (us/s/s)	1.65706845238E-05	Resid phase (deg)	353.1	+/- 14.1

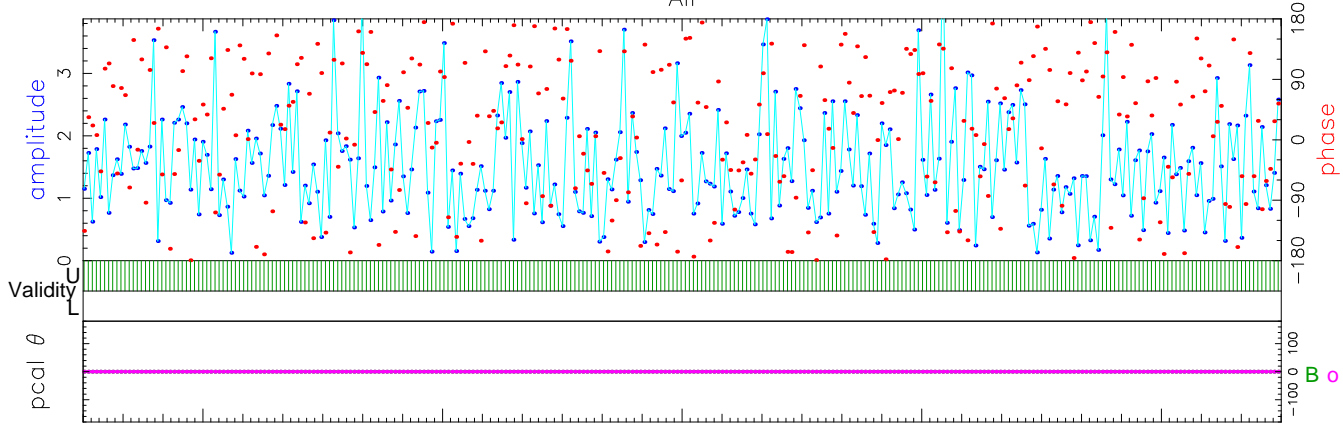
ph/seg (deg)	RMS 92.3	Theor. 121.1	Amplitude Search (2048X8)	1.608 +/- 0.198	1.103	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.1	211.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.682	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.595	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
		b: az 107.5 el 62.2 pa -50.8		n: az 152.7 el 81.8 pa -23.5		u,v (fr/asec) -2682.578 1482.583	

Fringe quality 8



SNR 8.6
Int time 299.974
Amp 1.292
Phase 271.7
PFD 9.1e-11
Delays (us)
SBD -0.902413
MBD -0.000007
Fringe rate (Hz)
-0.426289
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



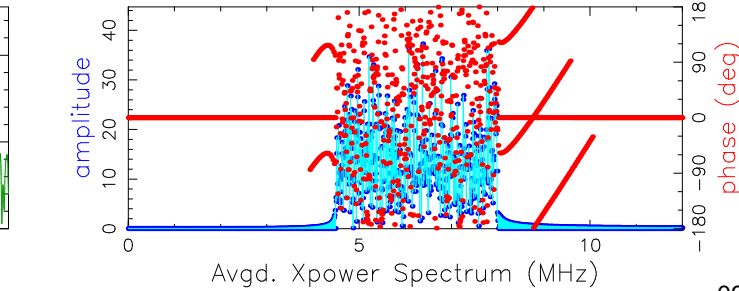
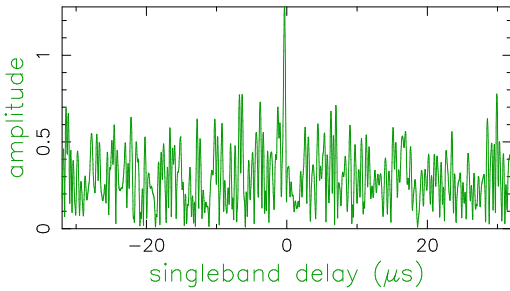
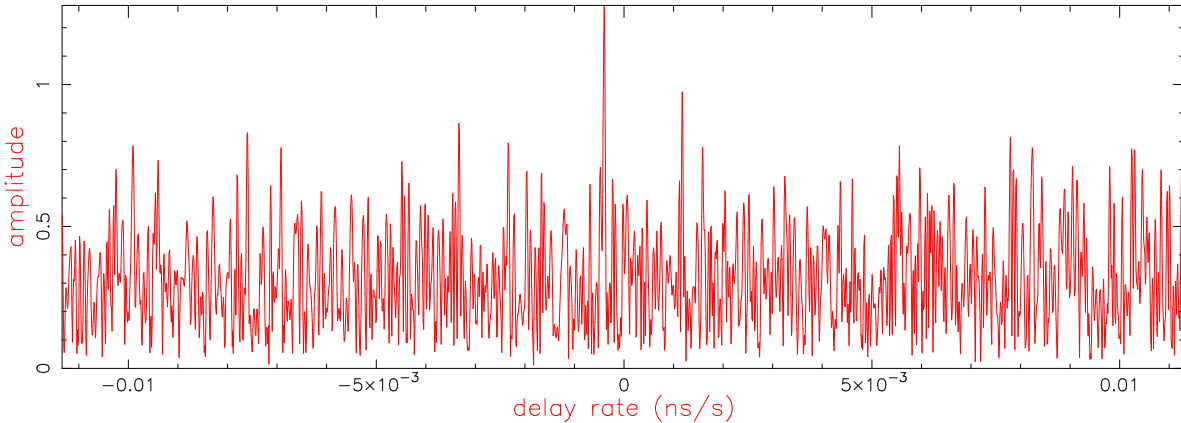
86227.00
88.3
0.4
1493.7
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UR
o W03UL

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)	-1.09959894870E+04	Apriori delay (usec)	-1.09950870710E+04	Resid mbdelay (usec)	-7.24761E-06	+/-	5.3E-03
Sband delay (usec)	-1.09959894843E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-9.02413E-01	+/-	5.3E-03
Phase delay (usec)	-1.09950870681E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.84586E-06	+/-	4.3E-07
Delay rate (us/s)	-1.33029338164E+00	Apriori rate (us/s)	-1.33028843285E+00	Resid rate (us/s)	-4.94879E-06	+/-	2.5E-09
Total phase (deg)	165.9	Apriori accel (us/s/s)	6.89733364502E-05	Resid phase (deg)	271.7	+/-	13.3

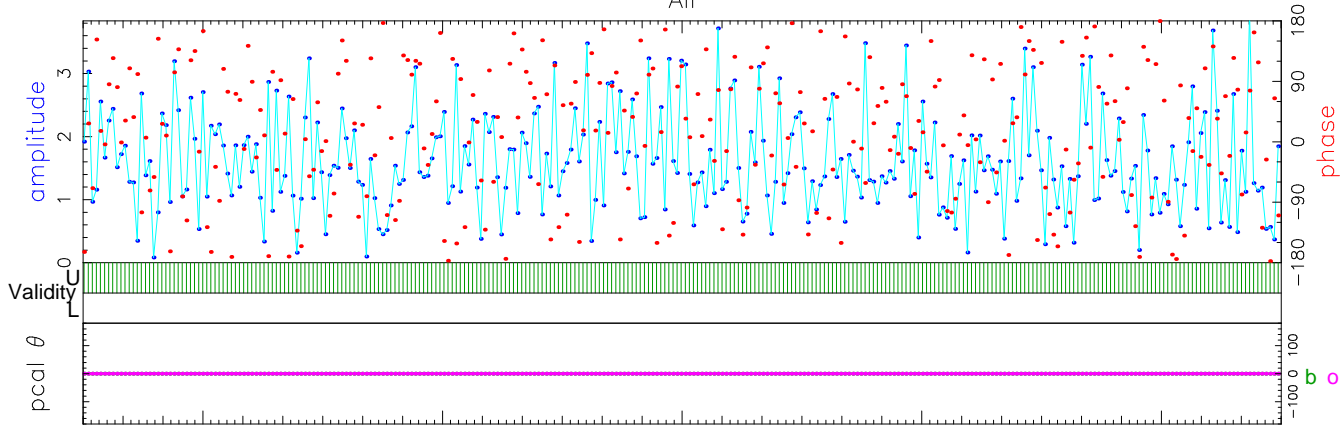
ph/seg (deg)	RMS 92.1	Theor. 113.4	Amplitude Search (2048X8)	1.292 +/- 0.149	1.186	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.6	197.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.561	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.282	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
B: az 296.1 el 23.6 pa 43.8		o: az 86.9 el 64.6 pa -74.8		u,v (fr/asec) 9314.163 4876.405		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 9.3
Int time 299.957
Amp 1.279
Phase 2.5
PFD 3.5e-13
Delays (us)
SBD -0.330999
MBD -0.000005
Fringe rate (Hz)
-0.034589
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051932
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
75.6
0.4
1521.1
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UL

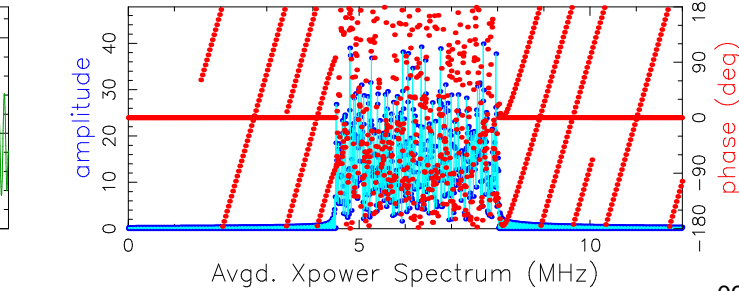
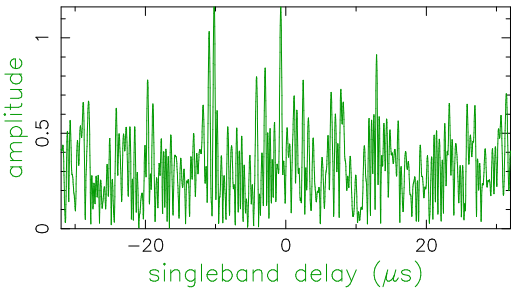
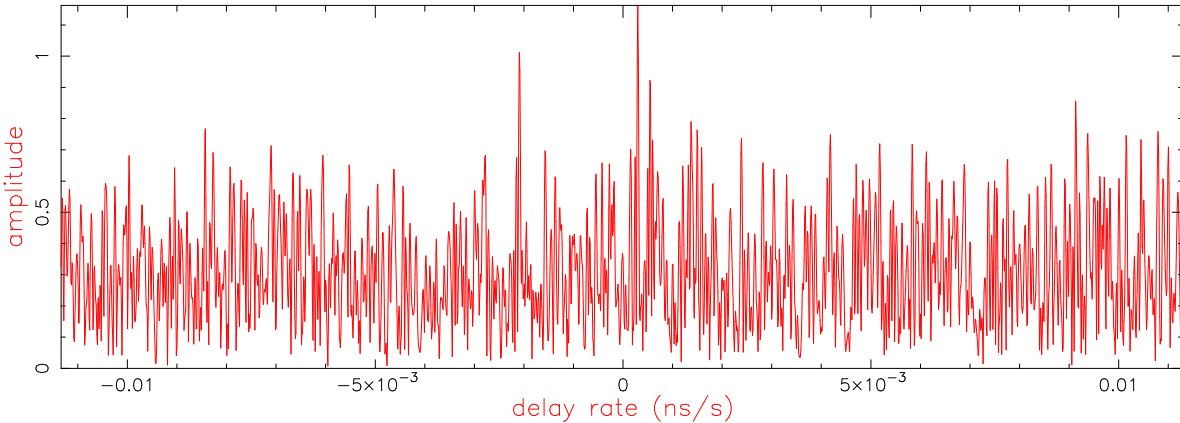
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.27194252088E+02	Apriori delay (usec)	-4.26863248873E+02	Resid mbdelay (usec)	-4.80369E-06	+/-	5.0E-03
Sband delay (usec)	-4.27194247539E+02	Apriori clock (usec)	-6.7457428E+00	Resid sbdelay (usec)	-3.30999E-01	+/-	5.0E-03
Phase delay (usec)	-4.26863246434E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.43911E-06	+/-	4.0E-07
Delay rate (us/s)	-6.55442039185E-02	Apriori rate (us/s)	-6.55438023789E-02	Resid rate (us/s)	-4.01540E-07	+/-	2.3E-09
Total phase (deg)	269.7	Apriori accel (us/s/s)	1.11382285258E-05	Resid phase (deg)	2.5	+/-	12.4

ph/seg (deg)	RMS 93.2	Theor. 105.8	Amplitude Search (2048X8)	1.279 +/- 0.138	1.263	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.0	184.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.595	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.271	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				b: az 107.5 el 62.2 pa -50.8	o: az 86.9 el 64.6 pa -74.8	u,v (fr/asec) 466.616 1617.403	ion window (TEC) 0.00 0.00

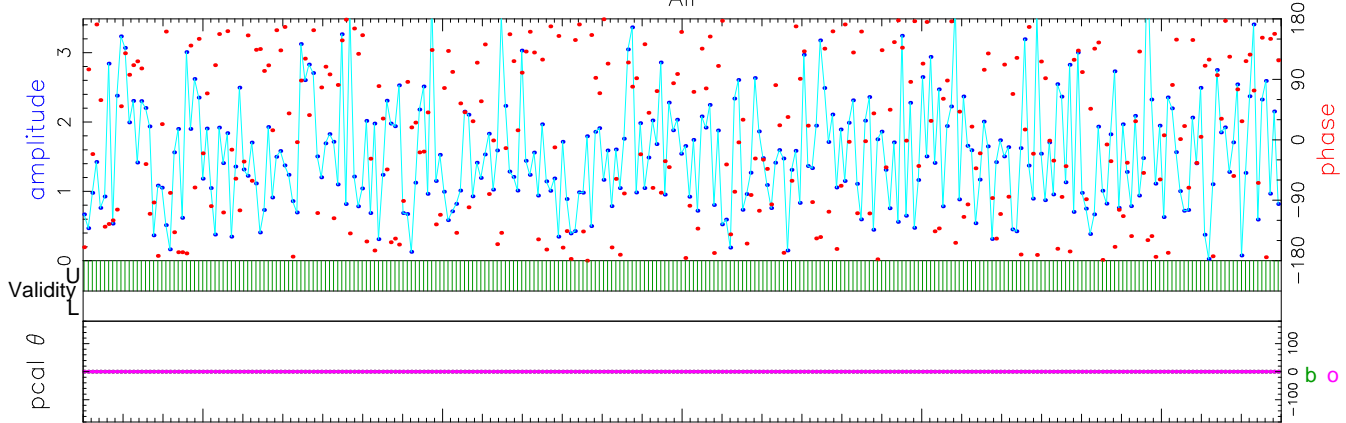
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bo.W.35.1T5GU7 simultaneous interpolator

Fringe quality 8



SNR 8.4
Int time 299.957
Amp 1.163
Phase 140.4
PFD 6.0e-10
Delays (us)
SBD -0.723512
MBD 0.000007
Fringe rate (Hz)
0.025262
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051933
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



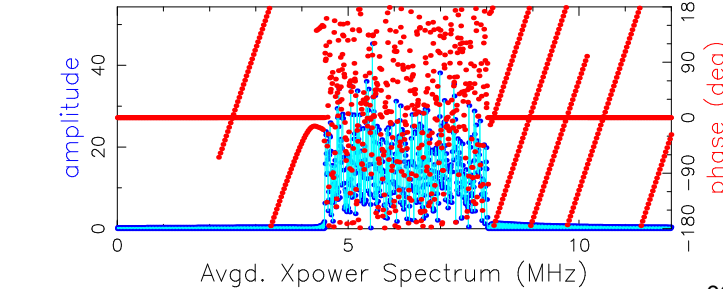
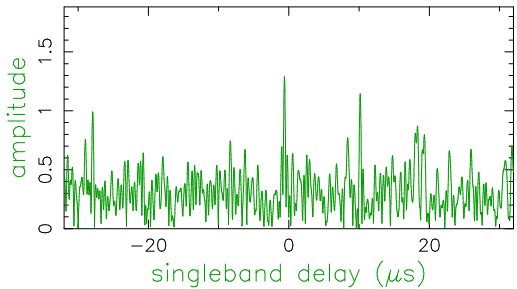
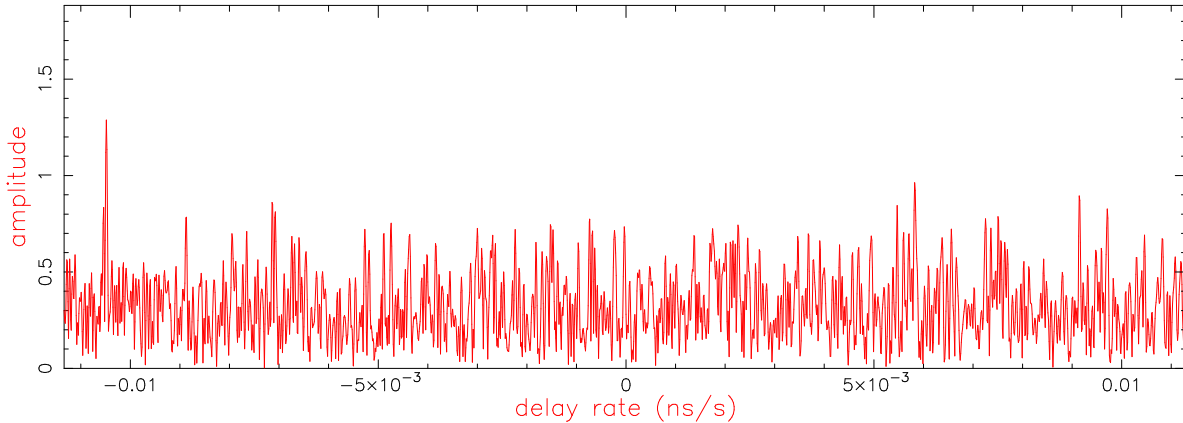
86227.00
159.7
0.3
1047.1
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UR

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)	-4.27586762547E+02	Apriori delay (usec)	-4.26863248873E+02	Resid mbdelay (usec)	6.80093E-06	+/-	5.5E-03
Sband delay (usec)	-4.27586760873E+02	Apriori clock (usec)	-6.7457428E+00	Resid sbdelay (usec)	-7.23512E-01	+/-	5.5E-03
Phase delay (usec)	-4.26863243723E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.14958E-06	+/-	4.4E-07
Delay rate (us/s)	-6.55435091119E-02	Apriori rate (us/s)	-6.55438023789E-02	Resid rate (us/s)	2.93267E-07	+/-	2.5E-09
Total phase (deg)	47.5	Apriori accel (us/s/s)	1.11382285258E-05	Resid phase (deg)	140.4	+/-	13.6

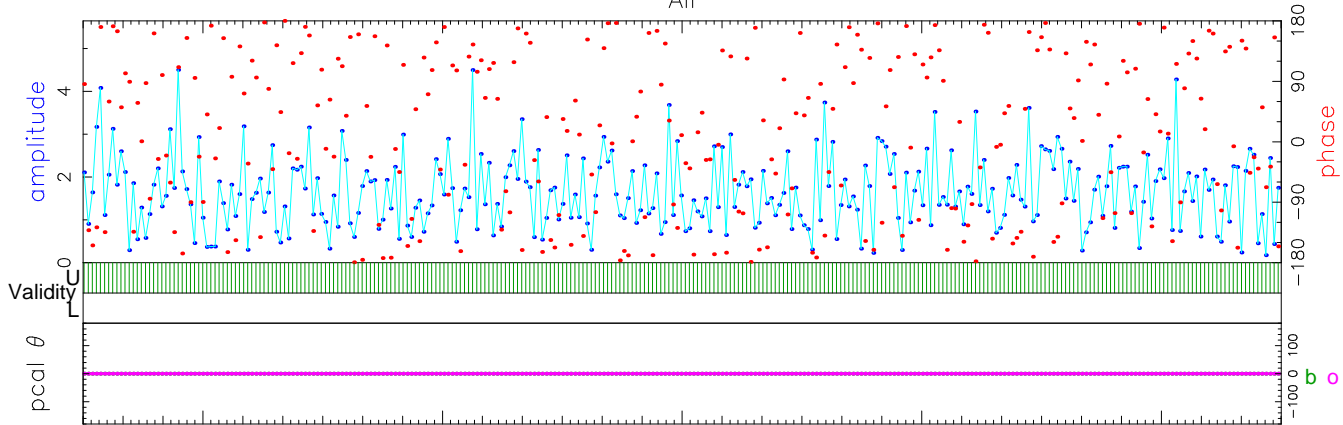
ph/seg (deg)	RMS 93.5	Theor. 116.4	Amplitude Search (2048X8)	1.163 +/- 0.138	1.114	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.6	203.1	Interp.	0.000	1.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.508	1.114	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.154	1.114	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 9.3
Int time 299.957
Amp 1.882
Phase 231.4
PFD 1.8e-13
Delays (us)
SBD -0.623323
MBD -0.000005
Fringe rate (Hz)
-0.901999
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
149.1
0.6
1507.1
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UR

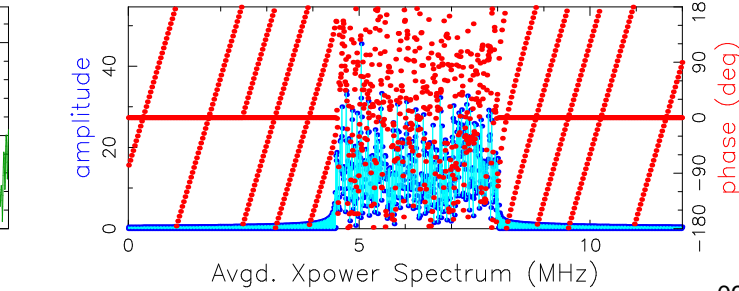
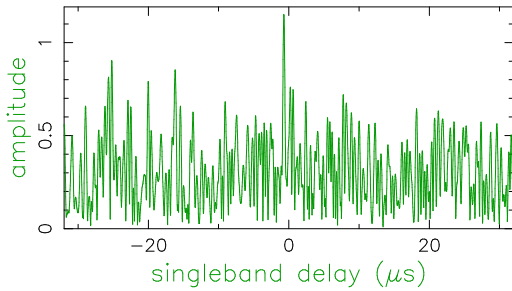
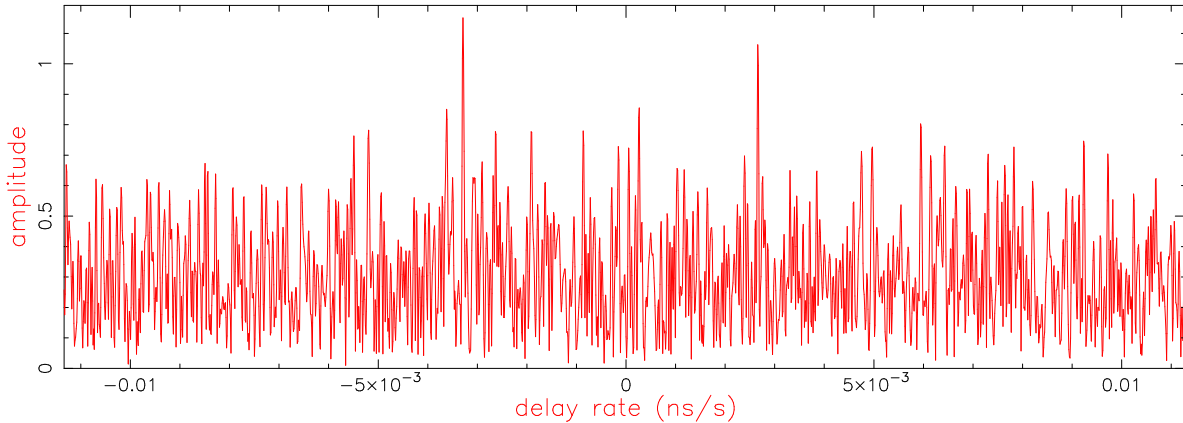
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.27486573403E+02	Apriori delay (usec)	-4.26863248873E+02	Resid mbdelay (usec)	-4.68865E-06	+/-	4.9E-03
Sband delay (usec)	-4.27486571539E+02	Apriori clock (usec)	-6.7457428E+00	Resid sbdelay (usec)	-6.23323E-01	+/-	4.9E-03
Phase delay (usec)	-4.26863244066E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.80673E-06	+/-	4.0E-07
Delay rate (us/s)	-6.55542736928E-02	Apriori rate (us/s)	-6.55438023789E-02	Resid rate (us/s)	-1.04713E-05	+/-	2.3E-09
Total phase (deg)	138.6	Apriori accel (us/s/s)	1.11382285258E-05	Resid phase (deg)	231.4	+/-	12.3

ph/seg (deg)	RMS 92.2	Theor. 105.0	Amplitude Search (2048X8)	1.882 +/- 0.202	1.277	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.3	183.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.902	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.871	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00	

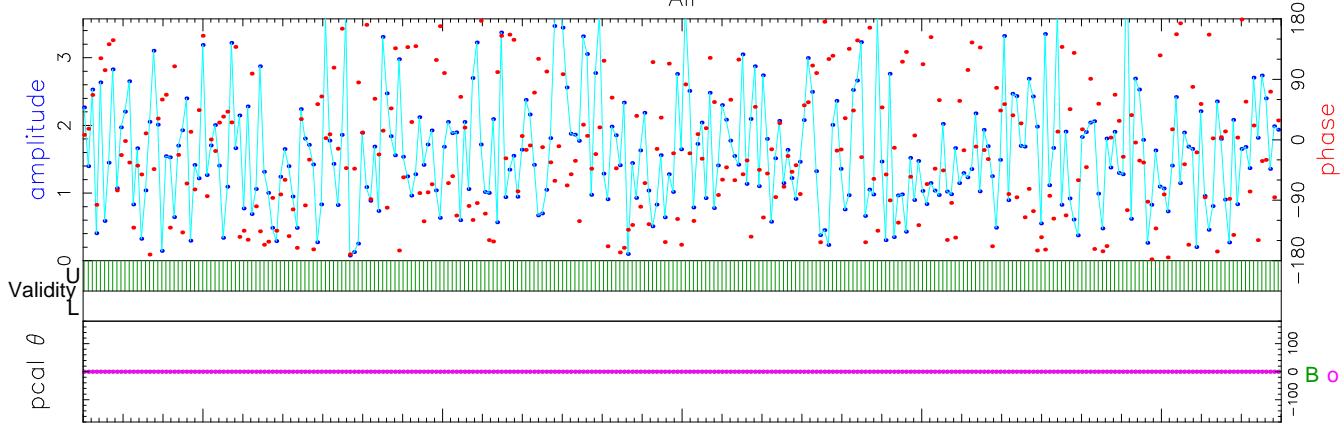
b: az 107.5 el 62.2 pa -50.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 466.616 1617.403 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bo.W.49.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.974
Amp 1.192
Phase 101.3
PFD 1.2e-09
Delays (us)
SBD -0.705573
MBD -0.000007
Fringe rate (Hz)
-0.282997
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051934
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-37.1
0.3
1503.1
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UL
o W03UL

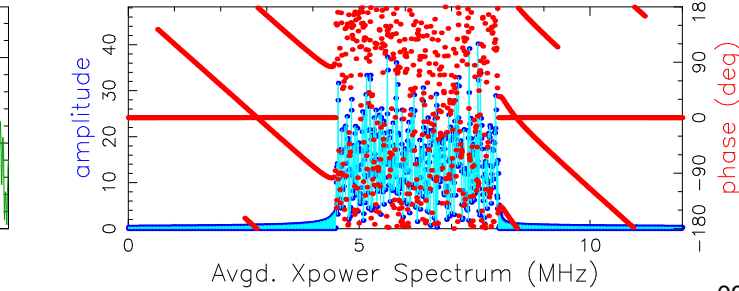
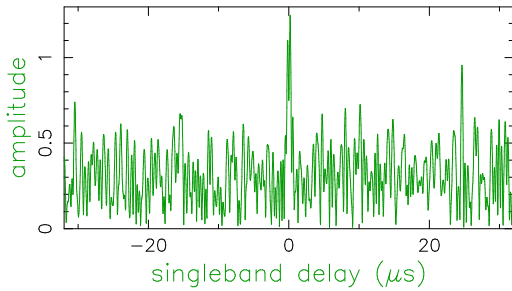
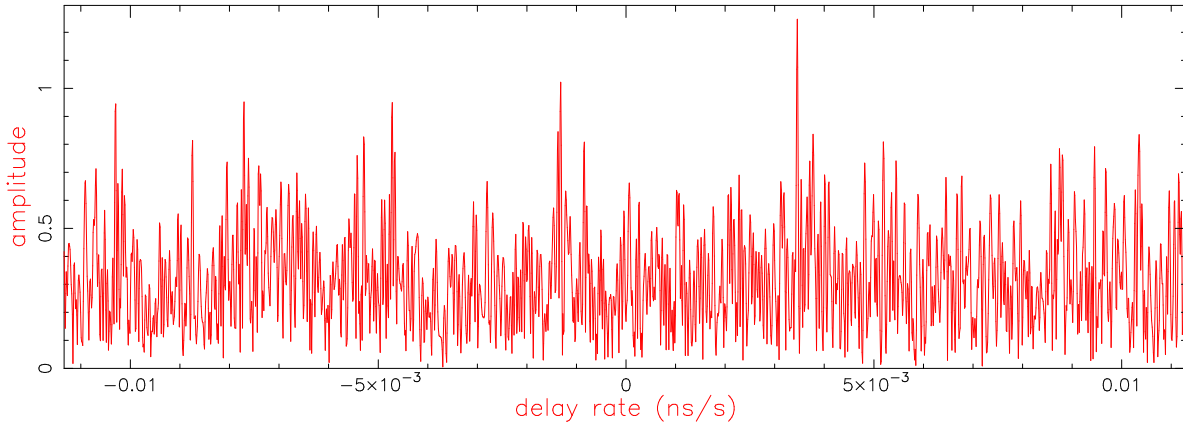
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.09957926455E+04	Apriori delay (usec)	-1.09950870710E+04	Resid mbdelay (usec)	-6.62076E-06	+/-	5.5E-03
Sband delay (usec)	-1.09957926443E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-7.05573E-01	+/-	5.5E-03
Phase delay (usec)	-1.09950870722E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.19647E-06	+/-	4.4E-07
Delay rate (us/s)	-1.33029171816E+00	Apriori rate (us/s)	-1.33028843285E+00	Resid rate (us/s)	-3.28531E-06	+/-	2.6E-09
Total phase (deg)	355.5	Apriori accel (us/s/s)	6.89733364502E-05	Resid phase (deg)	101.3	+/-	13.7

ph/seg (deg)	RMS 93.7	Theor. 117.5	Amplitude Search (2048X8)	1.192 +/- 0.143	1.137	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.1	205.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.536	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.183	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

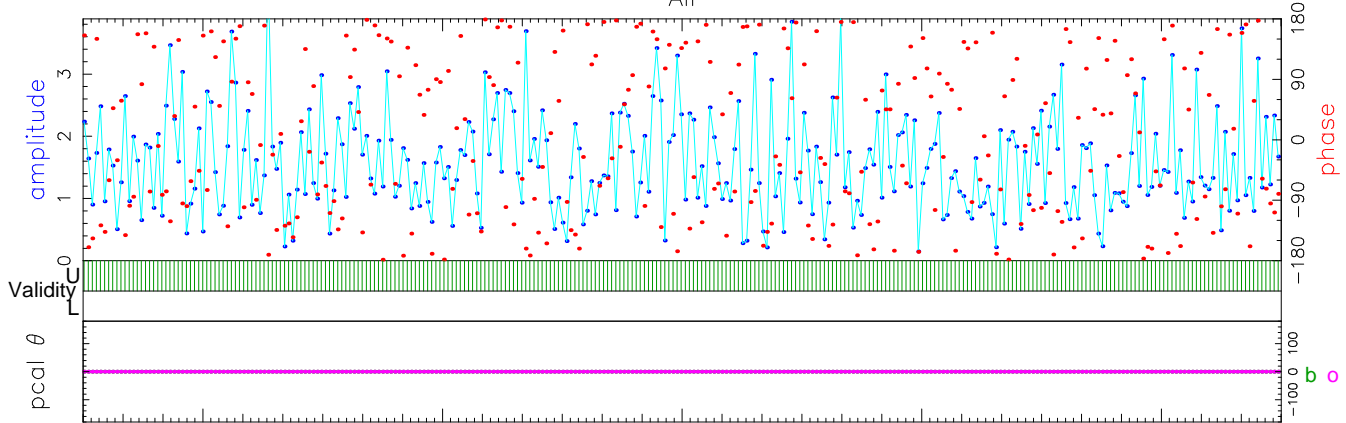
B: az 296.1 el 23.6 pa 43.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 9314.163 4876.405 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bo.W.52.1T5GU7

Fringe quality 8



SNR 9.0
Int time 299.957
Amp 1.296
Phase -187.3
PFD 2.7e-12
Delays (us)
SBD 0.184643
MBD 0.000004
Fringe rate (Hz) 0.297503
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-164.3
0.4
1545.9
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UL

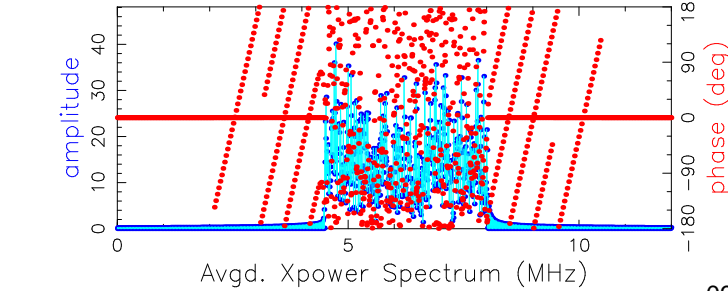
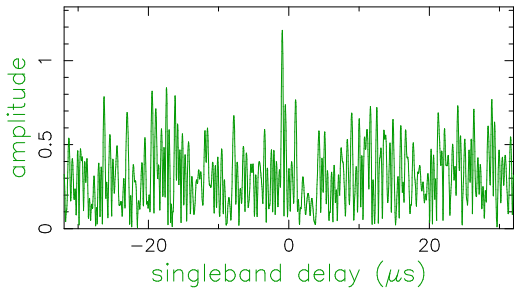
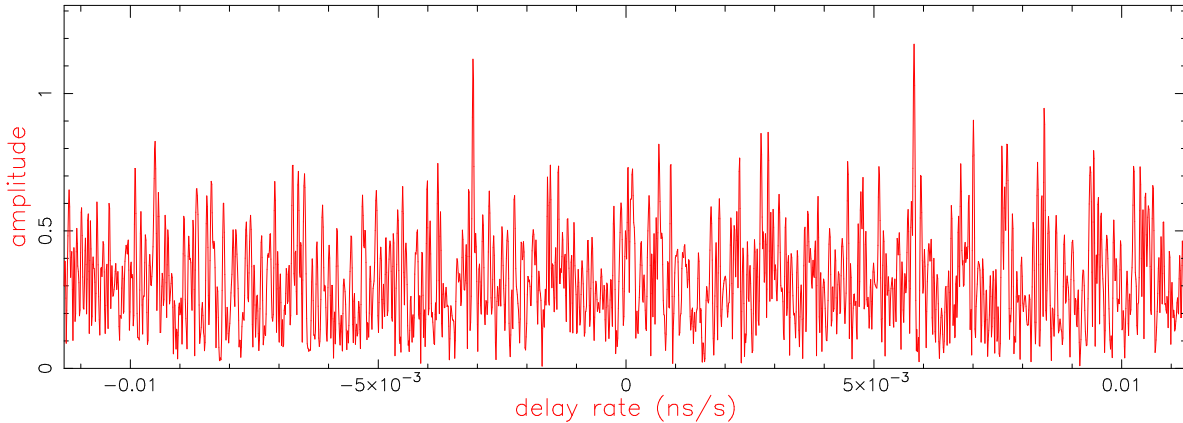
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.26678603943E+02	Apriori delay (usec)	-4.26863248873E+02	Resid mbdelay (usec)	4.38772E-06	+/-	5.1E-03
Sband delay (usec)	-4.26678606206E+02	Apriori clock (usec)	-6.7457428E+00	Resid sbdelay (usec)	1.84643E-01	+/-	5.1E-03
Phase delay (usec)	-4.26863254172E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-5.29953E-06	+/-	4.1E-07
Delay rate (us/s)	-6.55403486671E-02	Apriori rate (us/s)	-6.55438023789E-02	Resid rate (us/s)	3.45371E-06	+/-	2.4E-09
Total phase (deg)	-280.1	Apriori accel (us/s/s)	1.11382285258E-05	Resid phase (deg)	-187.3	+/-	12.7

ph/seg (deg)	88.4	Theor.	108.4	Amplitude	1.296 +/- 0.143	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.9	Search (2048X8)	1.239	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.589	Inc. frq. avg.	1.288	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.288	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
				nlags: 1536	t_cohere infinite		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

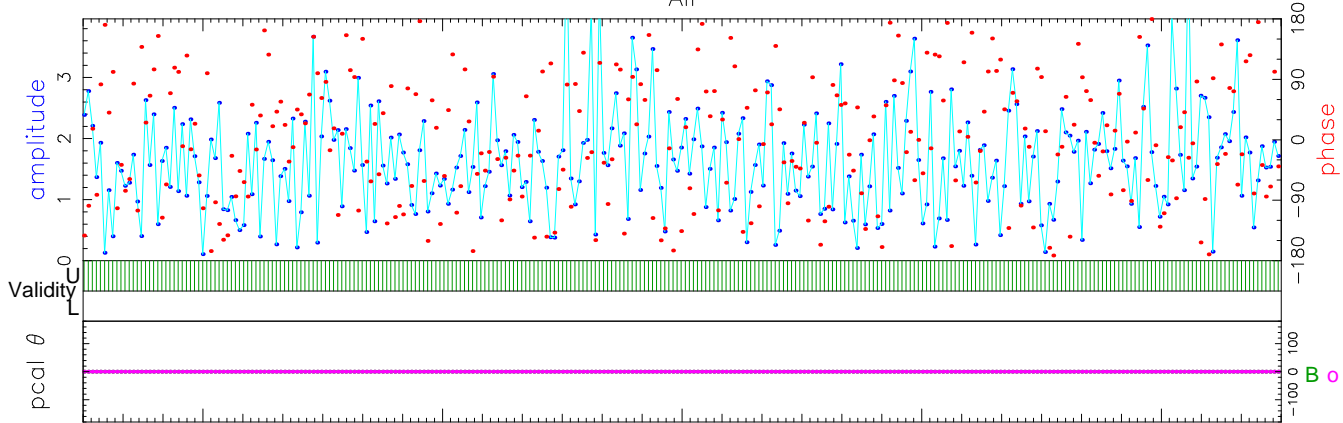
b: az 107.5 el 62.2 pa -50.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 466.616 1617.403 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bo.W.70.1T5GU7

Fringe quality 8



SNR 8.6
Int time 299.974
Amp 1.320
Phase 254.8
PFD 1.7e-10
Delays (us)
SBD -0.927544
MBD 0.000007
Fringe rate (Hz)
0.499870
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
3.9
0.4
1492.5
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UR
o W03UR

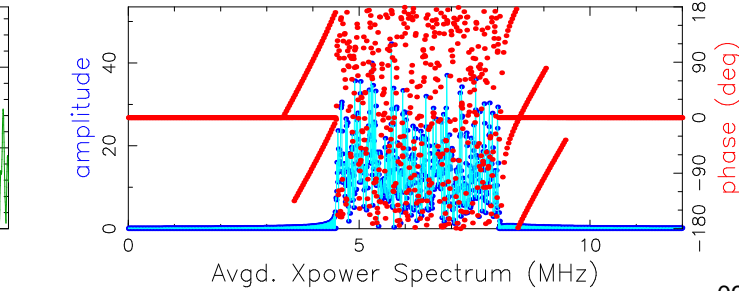
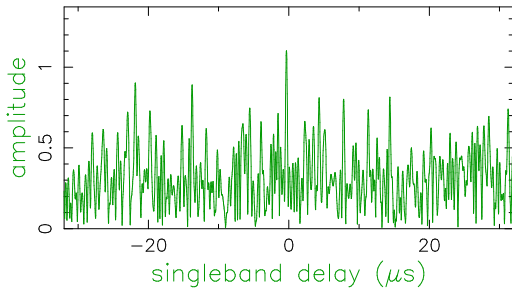
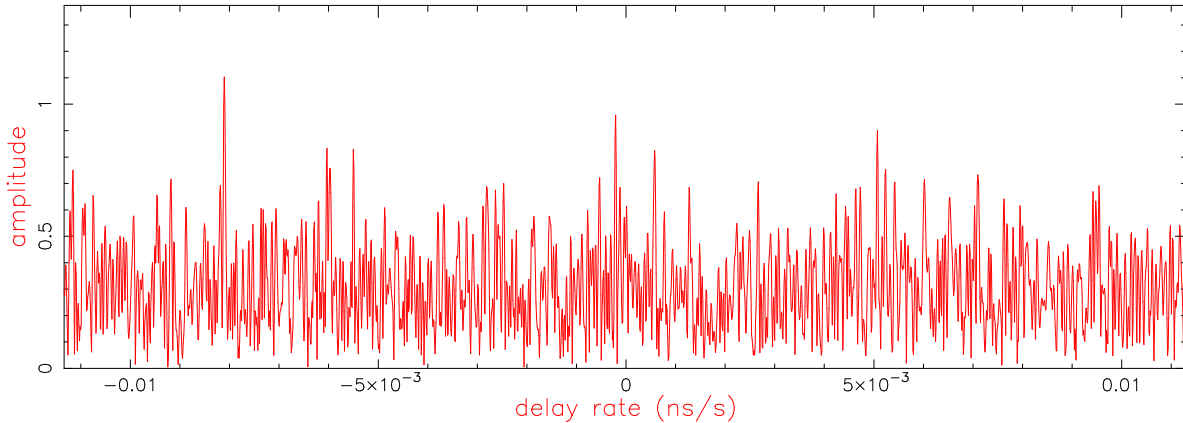
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.09960146156E+04	Apriori delay (usec)	-1.09950870710E+04	Resid mbdelay (usec)	7.04030E-06	+/-	5.4E-03
Sband delay (usec)	-1.09960146150E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-9.27544E-01	+/-	5.4E-03
Phase delay (usec)	-1.09950870709E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.24286E-07	+/-	4.3E-07
Delay rate (us/s)	-1.33028262985E+00	Apriori rate (us/s)	-1.33028843285E+00	Resid rate (us/s)	5.80300E-06	+/-	2.5E-09
Total phase (deg)	149.0	Apriori accel (us/s/s)	6.89733364502E-05	Resid phase (deg)	254.8	+/-	13.4

ph/seg (deg)	RMS 91.5	Theor. 114.4	Amplitude 1.320 +/- 0.154	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.4	199.6	Search (2048X8) 1.172	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.7	Inc. seg. avg. 0.611	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.308	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

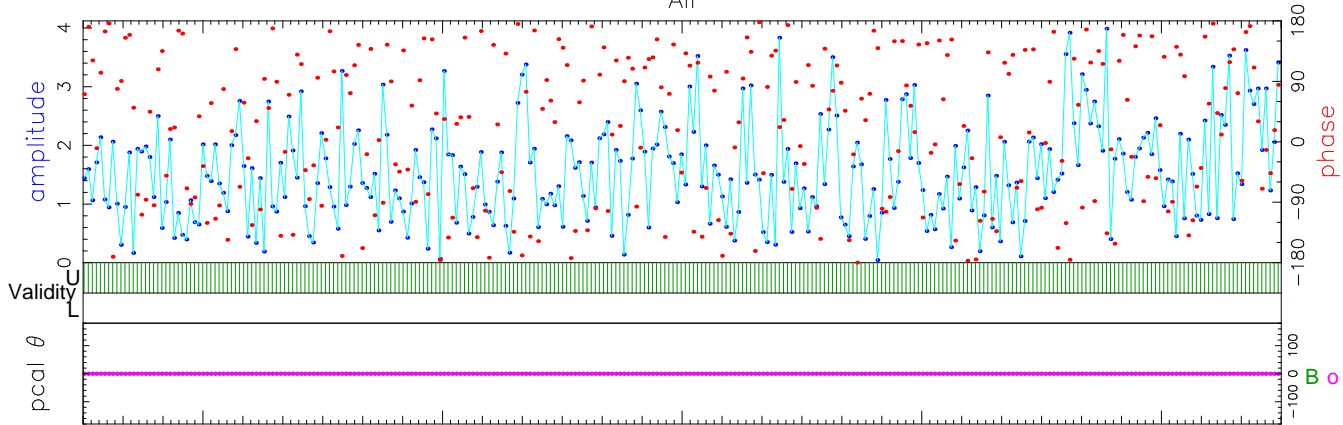
B: az 296.1 el 23.6 pa 43.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 9314.163 4876.405 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bo.W.75.1T5GU7

Fringe quality 8



SNR 8.0
Int time 299.974
Amp 1.374
Phase 317.9
PFD 2.0e-08
Delays (us)
SBD -0.339009
MBD -0.000007
Fringe rate (Hz)
-0.697222
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
140.4
0.4
1520.7
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UL
o W03UR

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)	-1.09954260788E+04	Apriori delay (usec)	-1.09950870710E+04	Resid mbdelay (usec)	-7.24634E-06	+/- 5.7E-03
Sband delay (usec)	-1.09954260803E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-3.39009E-01	+/- 5.7E-03
Phase delay (usec)	-1.09950870664E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.52803E-06	+/- 4.6E-07
Delay rate (us/s)	-1.33029652691E+00	Apriori rate (us/s)	-1.33028843285E+00	Resid rate (us/s)	-8.09406E-06	+/- 2.7E-09
Total phase (deg)	212.2	Apriori accel (us/s/s)	6.89733364502E-05	Resid phase (deg)	317.9	+/- 14.3

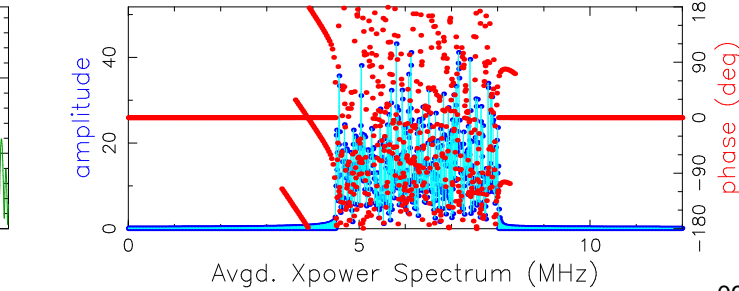
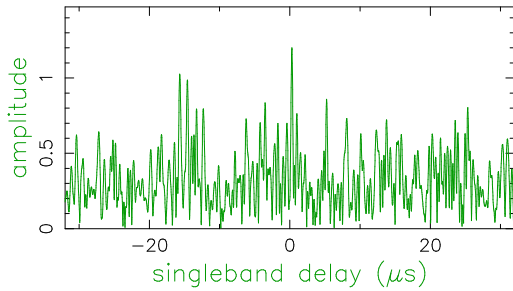
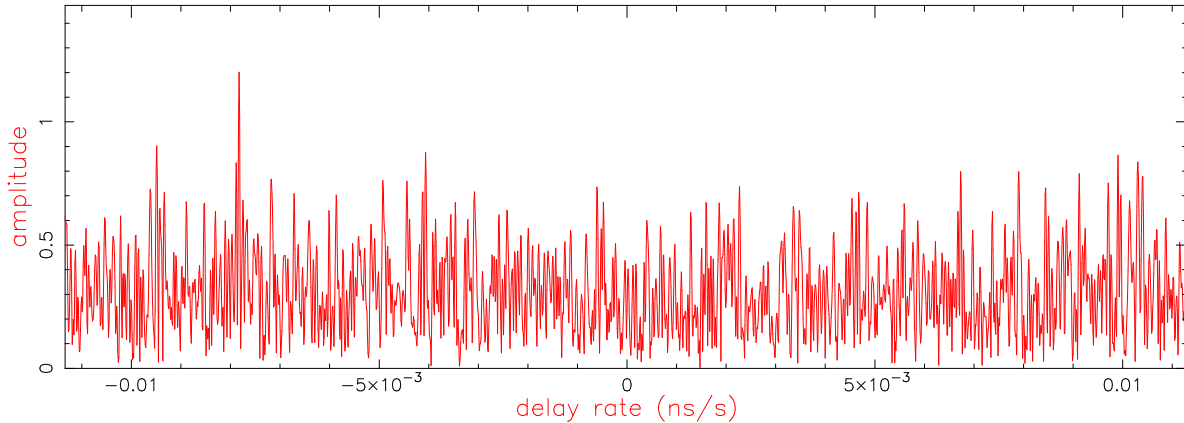
ph/seg (deg)	RMS 94.0	Theor. 122.6	Amplitude 1.374 +/- 0.172	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.7	213.9	Search (2048X8) 1.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. seg. avg. 0.588	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.363	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 296.1 el 23.6 pa 43.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 9314.163 4876.405 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bo.W.84.1T5GU7

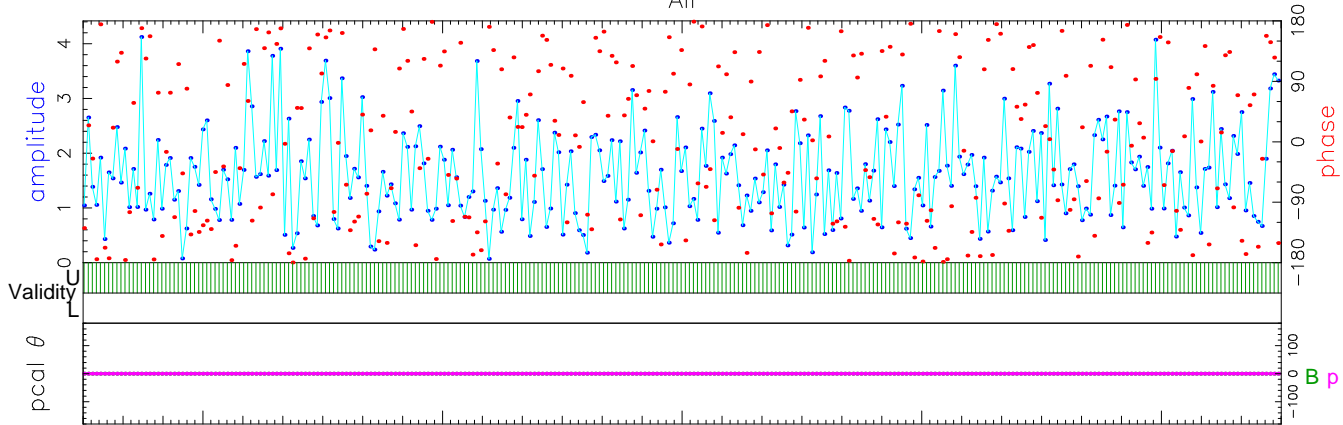
Fringe quality 8

SNR 8.7
Int time 299.973
Amp 1.472
Phase -351.8
PFD 5.4e-11
Delays (us)
SBD 0.292608
MBD -0.000006
Fringe rate (Hz)
-0.673359
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
172.8
0.4
1551.0
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UR
p W03UL

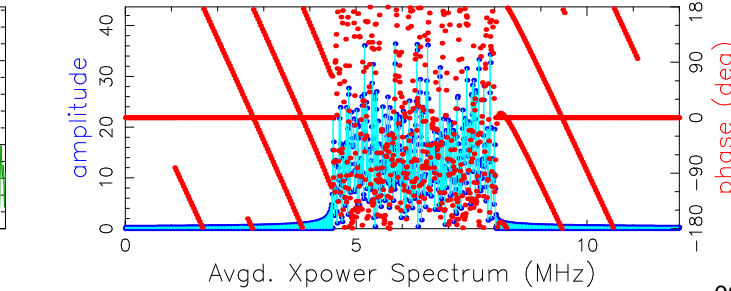
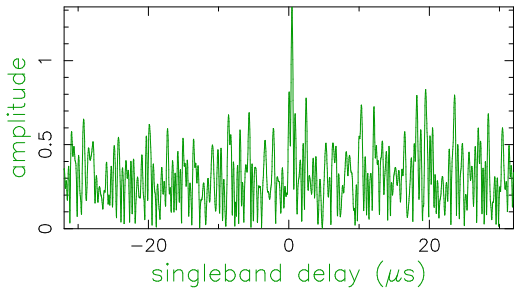
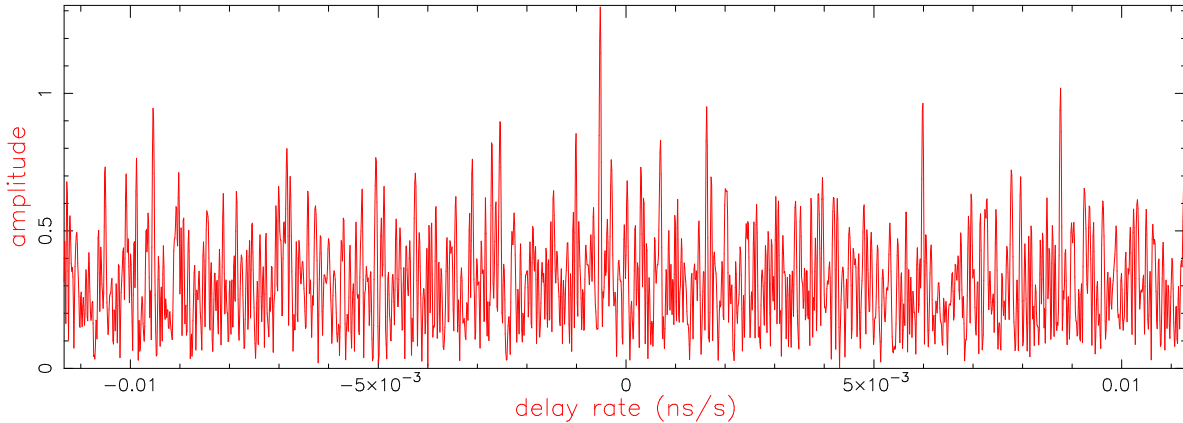
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20562641222E+04	Apriori delay (usec)	-1.20565567277E+04	Resid mbdelay (usec)	-5.80245E-06	+/-	5.3E-03
Sband delay (usec)	-1.20562641197E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	2.92608E-01	+/-	5.3E-03
Phase delay (usec)	-1.20565567222E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.57267E-06	+/-	4.2E-07
Delay rate (us/s)	-1.18040768981E+00	Apriori rate (us/s)	-1.18039987277E+00	Resid rate (us/s)	-7.81704E-06	+/-	2.4E-09
Total phase (deg)	-181.4	Apriori accel (us/s/s)	7.72469127492E-05	Resid phase (deg)	-351.8	+/-	13.2

ph/seg (deg)	RMS 93.4	Theor. 112.6	Amplitude Search (2048X8)	1.472 +/- 0.169	1.195	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.5	196.6	Interp.	0.000	1.195	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.675	1.195	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.463	1.195	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
					1.195	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					1.195	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

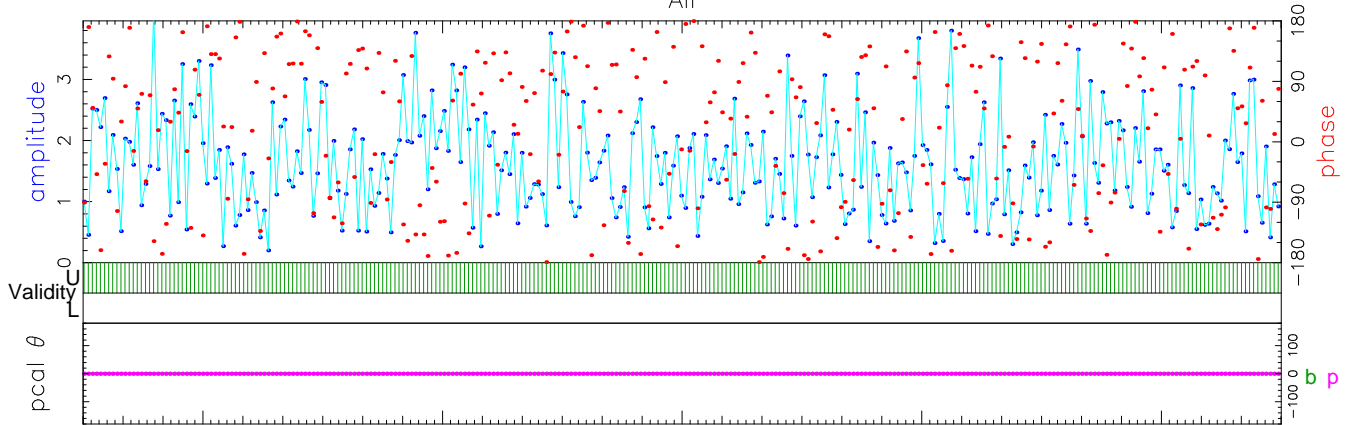
B: az 296.1 el 23.6 pa 43.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 8282.838 5630.391 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bp.W.110.1T5GU7

Fringe quality 8



SNR 9.6
Int time 299.956
Amp 1.320
Phase -315.4
PFD 2.2e-14
Delays (us)
SBD 0.451292
MBD -0.000007
Fringe rate (Hz)
-0.044573
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
139.2
0.4
1558.7
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UL

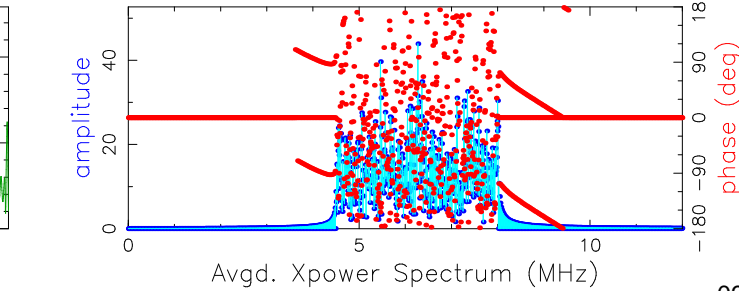
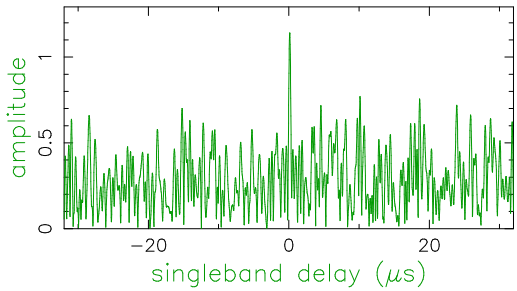
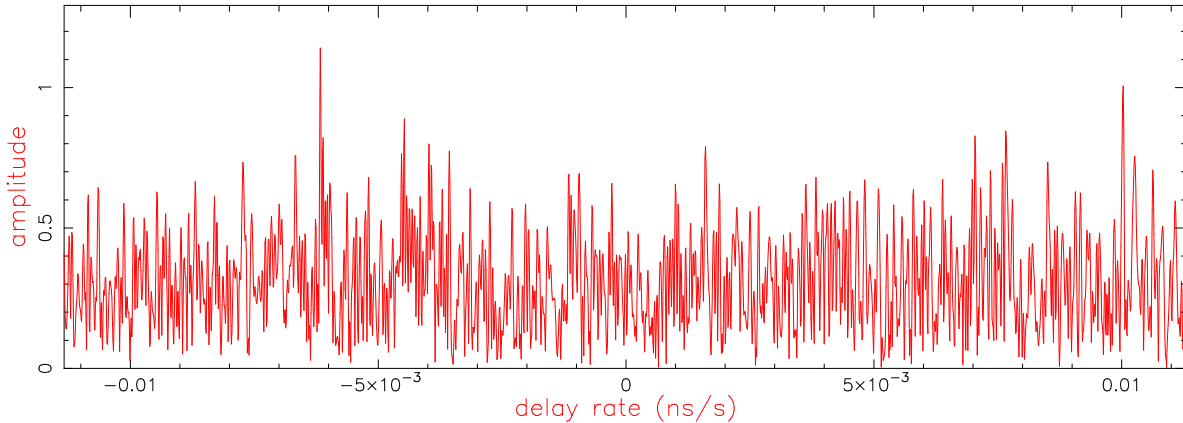
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.48788161571E+03	Apriori delay (usec)	-1.48833290563E+03	Resid mbdelay (usec)	-7.23866E-06	+/- 4.8E-03
Sband delay (usec)	-1.48788161363E+03	Apriori clock (usec)	-8.5217438E+00	Resid sbdelay (usec)	4.51292E-01	+/- 4.8E-03
Phase delay (usec)	-1.48833290114E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.49010E-06	+/- 3.9E-07
Delay rate (us/s)	8.43442402454E-02	Apriori rate (us/s)	8.43447576993E-02	Resid rate (us/s)	-5.17454E-07	+/- 2.2E-09
Total phase (deg)	-132.1	Apriori accel (us/s/s)	1.94118048248E-05	Resid phase (deg)	-315.4	+/- 12.0

ph/seg (deg)	RMS 90.6	Theor. 102.6	Amplitude Search (2048X8)	1.320 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.0	179.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.628	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	10.5	Inc. frq. avg.	1.308	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite

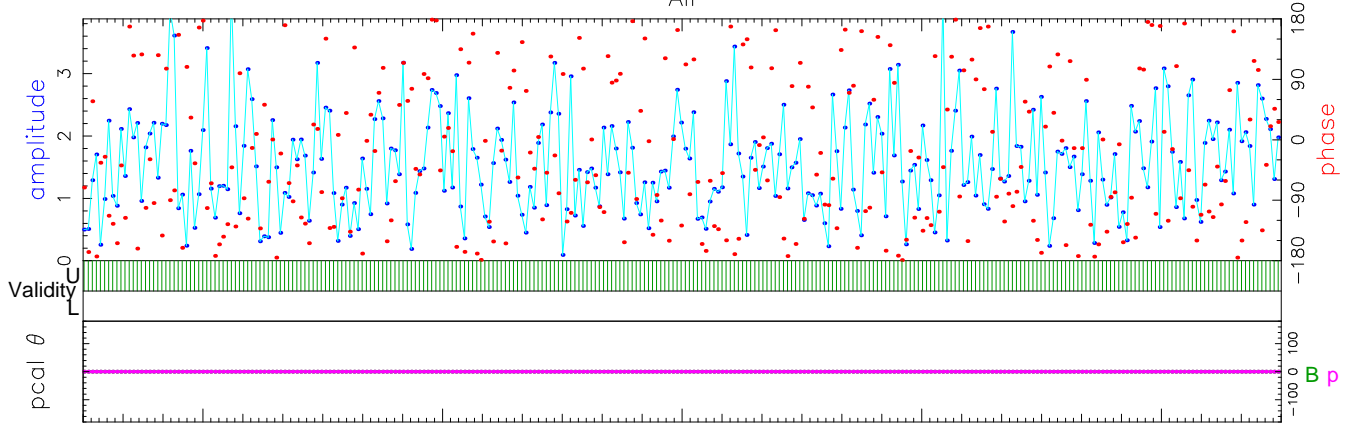
b: az 107.5 el 62.2 pa -50.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -564.708 2371.389 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bp.W.57.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.973
Amp 1.293
Phase -243.4
PFD 2.1e-09
Delays (us)
SBD 0.130247
MBD -0.000006
Fringe rate (Hz)
-0.530206
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-124.0
0.4
1543.3
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UL
p W03UL

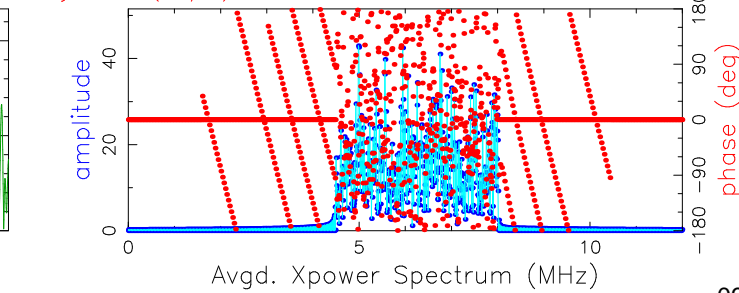
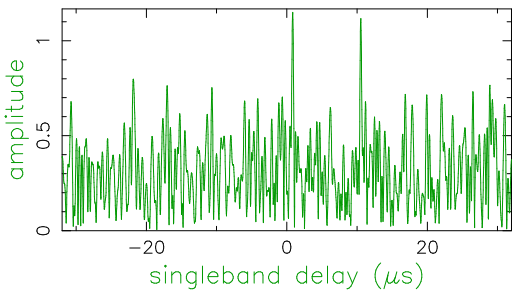
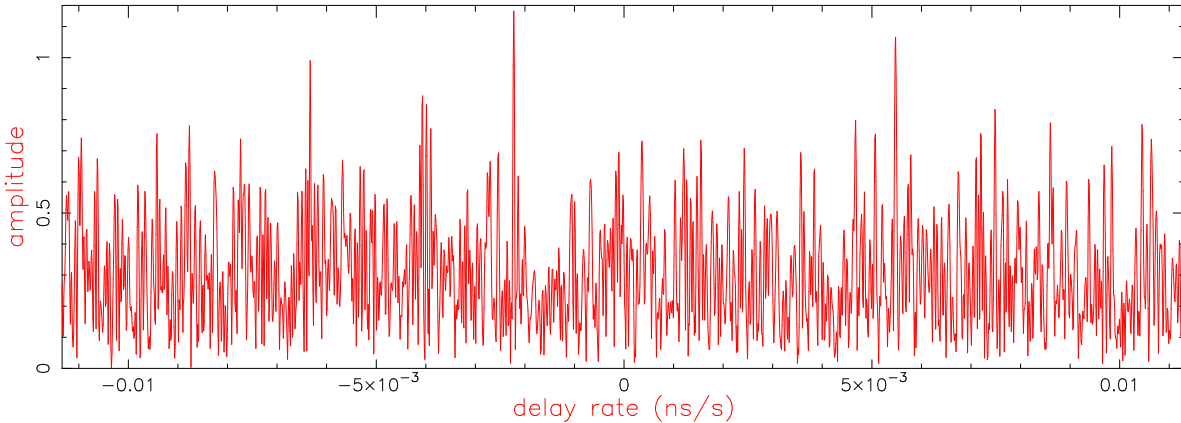
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20564264842E+04	Apriori delay (usec)	-1.20565567277E+04	Resid mbdelay (usec)	-5.66922E-06	+/-	5.6E-03
Sband delay (usec)	-1.20564264811E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	1.30247E-01	+/-	5.6E-03
Phase delay (usec)	-1.20565567317E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.99796E-06	+/-	4.5E-07
Delay rate (us/s)	-1.18040602794E+00	Apriori rate (us/s)	-1.18039987277E+00	Resid rate (us/s)	-6.15517E-06	+/-	2.6E-09
Total phase (deg)	-73.0	Apriori accel (us/s/s)	7.72469127492E-05	Resid phase (deg)	-243.4	+/-	13.8

ph/seg (deg)	RMS 91.2	Theor. 118.5	Amplitude Search (2048X8)	1.293 +/- 0.156	1.134	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.9	206.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.566	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.283	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

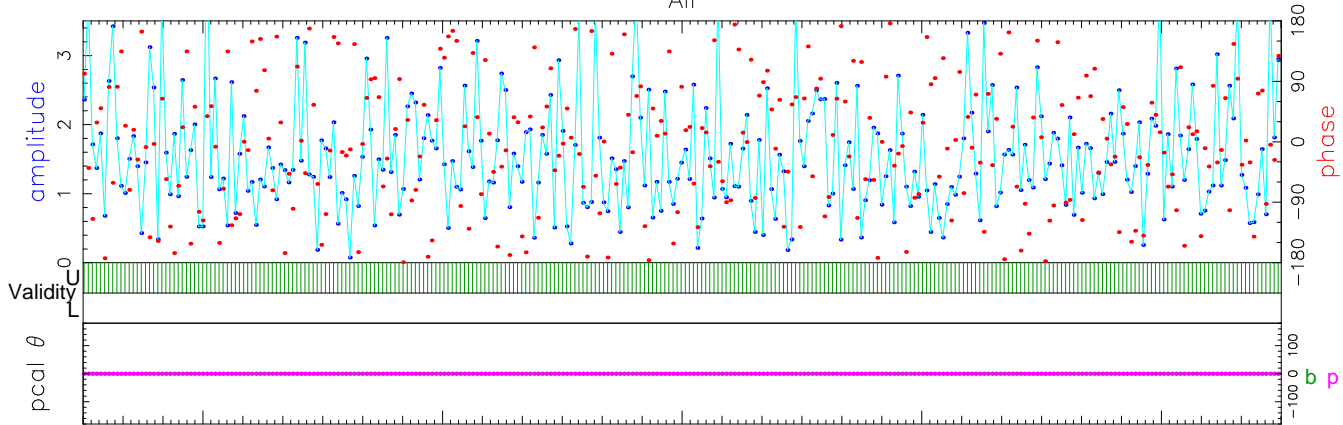
B: az 296.1 el 23.6 pa 43.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 8282.838 5630.391 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bp.W.60.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.956
Amp 1.168
Phase -246.2
PFD 1.3e-09
Delays (us)
SBD 0.835636
MBD -0.000006
Fringe rate (Hz)
-0.191665
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
6.1
0.3
1577.1
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UR

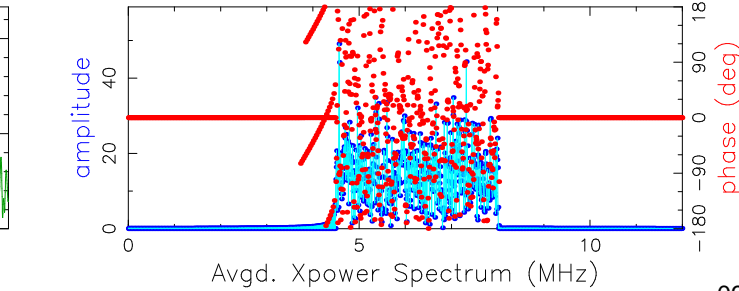
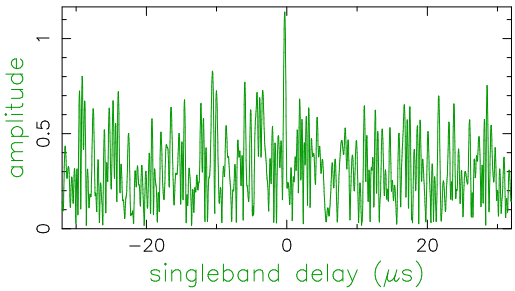
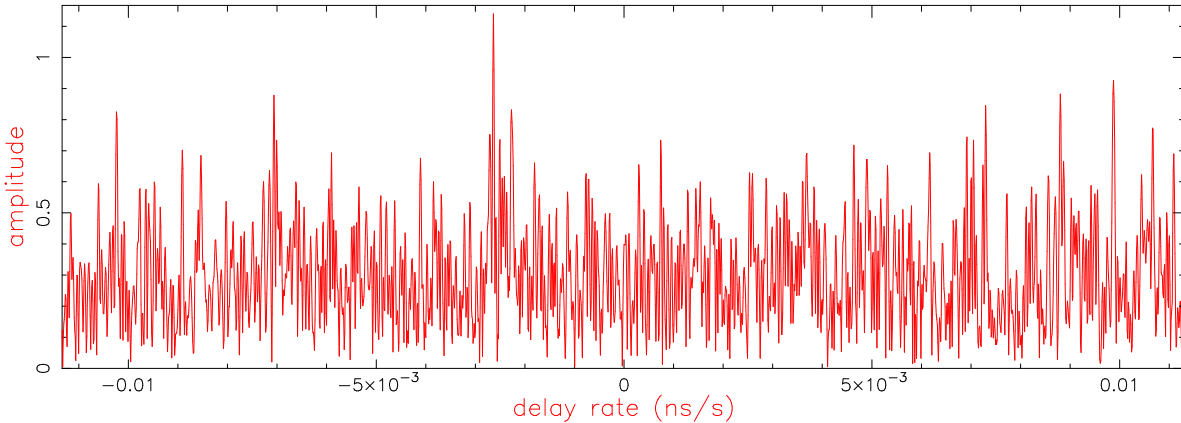
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.48749726877E+03	Apriori delay (usec)	-1.48833290563E+03	Resid mbdelay (usec)	-6.27544E-06	+/-	5.5E-03
Sband delay (usec)	-1.48749726963E+03	Apriori clock (usec)	-8.5217438E+00	Resid sbdelay (usec)	8.35636E-01	+/-	5.5E-03
Phase delay (usec)	-1.48833290543E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.97134E-07	+/-	4.4E-07
Delay rate (us/s)	8.43425326598E-02	Apriori rate (us/s)	8.43447576993E-02	Resid rate (us/s)	-2.22504E-06	+/-	2.6E-09
Total phase (deg)	-62.9	Apriori accel (us/s/s)	1.94118048248E-05	Resid phase (deg)	-246.2	+/-	13.7

ph/seg (deg)	RMS 95.4	Theor. 117.7	Amplitude Search (2048X8)	1.168 +/- 0.140	1.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.4	205.4	Interp.	0.000	1.159	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.513		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.159		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

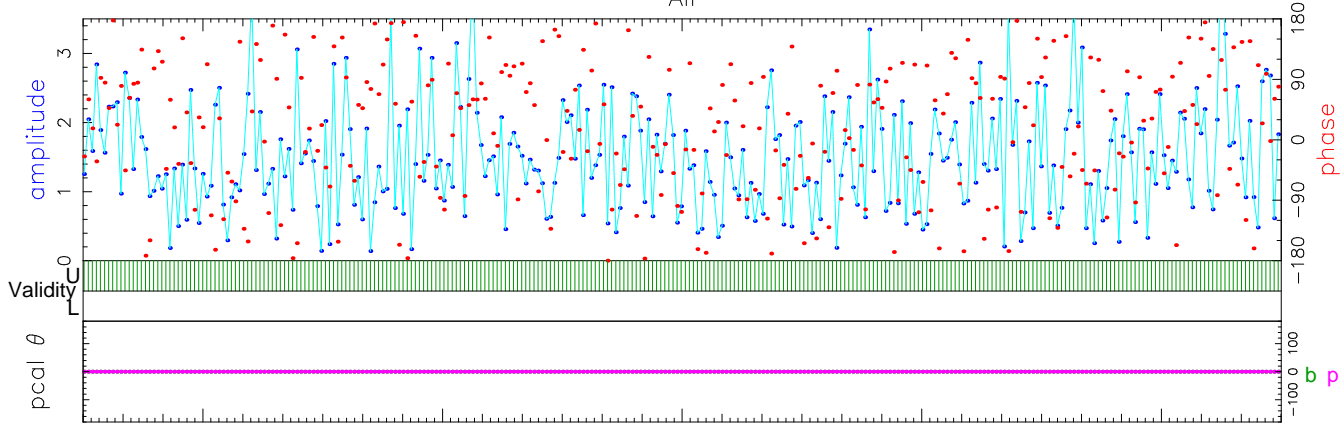
b: az 107.5 el 62.2 pa -50.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -564.708 2371.389 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bp.W.65.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.956
Amp 1.167
Phase 114.0
PFD 2.1e-09
Delays (us)
SBD -0.300487
MBD -0.000007
Fringe rate (Hz)
-0.227127
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
63.2
0.3
1522.6
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UR

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)	-1.48863338720E+03	Apriori delay (usec)	-1.48833290563E+03	Resid mbdelay (usec)	-7.24650E-06	+/- 5.6E-03
Sband delay (usec)	-1.48863339229E+03	Apriori clock (usec)	-8.5217438E+00	Resid sbdelay (usec)	-3.00487E-01	+/- 5.6E-03
Phase delay (usec)	-1.48833290359E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.03710E-06	+/- 4.5E-07
Delay rate (us/s)	8.43421209807E-02	Apriori rate (us/s)	8.43447576993E-02	Resid rate (us/s)	-2.63672E-06	+/- 2.6E-09
Total phase (deg)	297.4	Apriori accel (us/s/s)	1.94118048248E-05	Resid phase (deg)	114.0	+/- 13.8

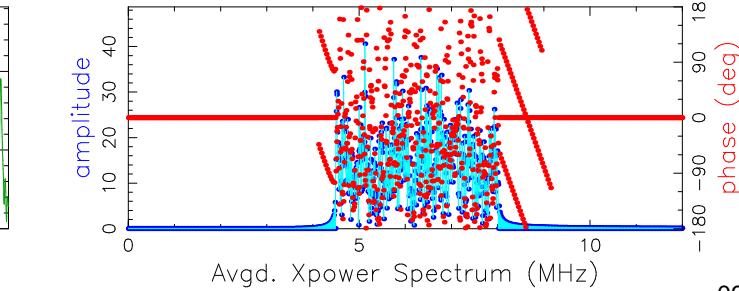
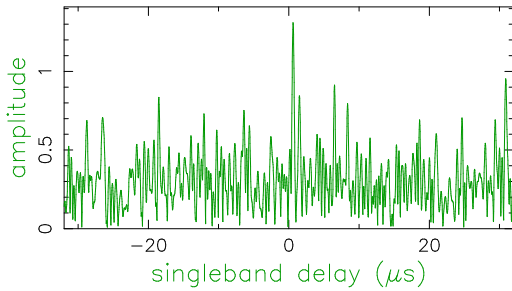
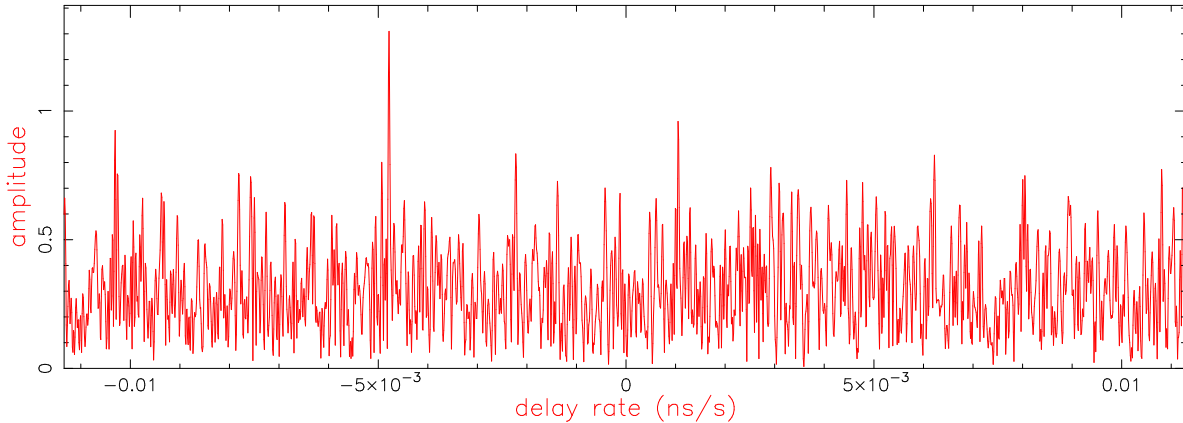
ph/seg (deg)	RMS 92.8	Theor. 118.5	Amplitude Search (2048X8)	1.135	1.167 +/- 0.141	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.5	206.8	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.490		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.158		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00
							nlags: 1536 t_cohere infinite

b: az 107.5 el 62.2 pa -50.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -564.708 2371.389 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bp.W.77.1T5GU7

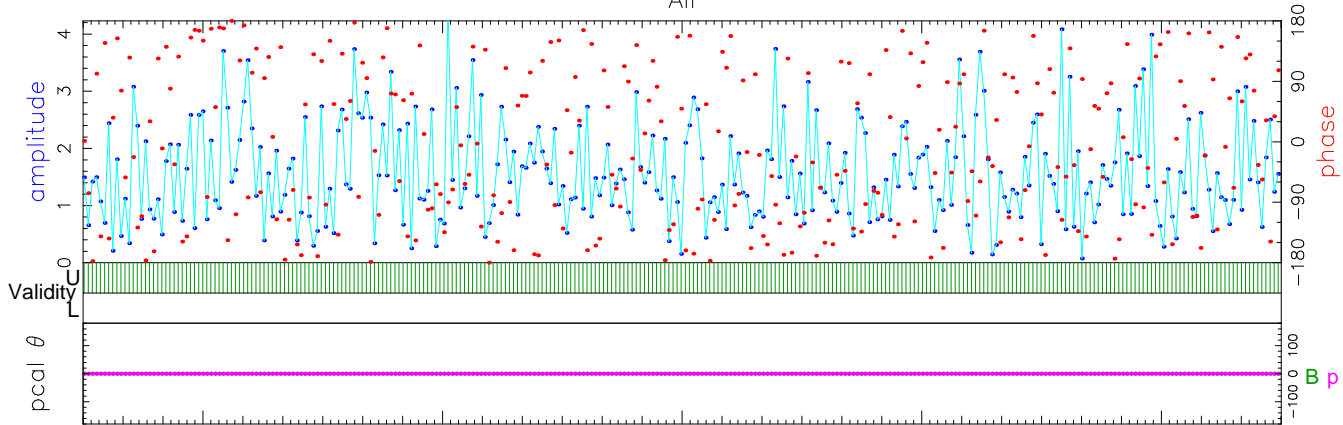
Fringe quality 8

SNR 9.5
Int time 299.973
Amp 1.411
Phase -97.0
PFD 4.0e-14
Delays (us)
SBD 0.606668
MBD -0.000007
Fringe rate (Hz)
-0.411412
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-175.9
0.4
1566.1
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UR
p W03UR

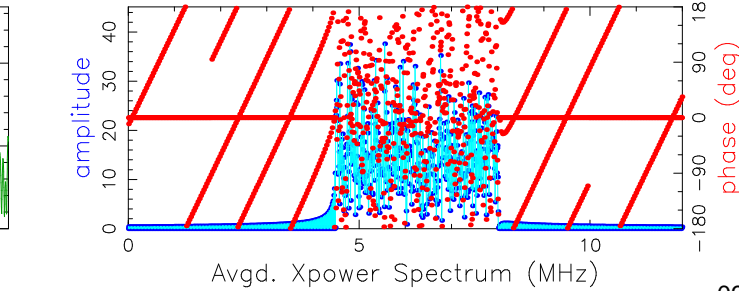
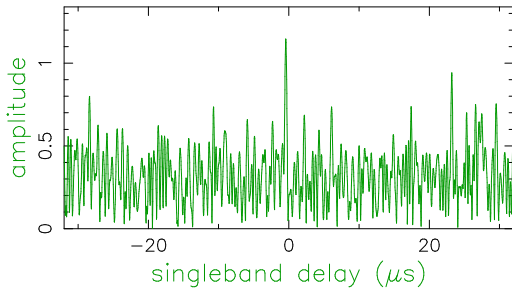
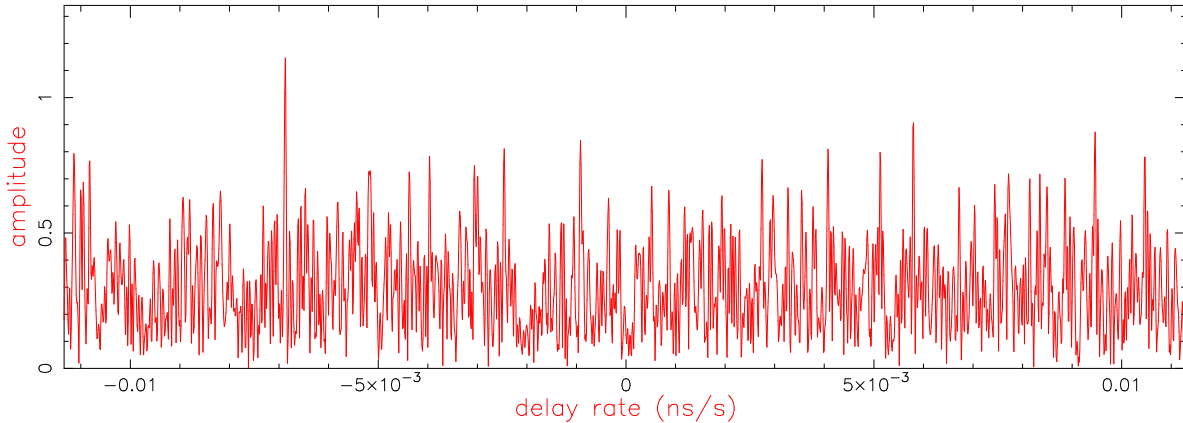
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20559500572E+04	Apriori delay (usec)	-1.20565567277E+04	Resid mbdelay (usec)	-7.24233E-06	+/-	4.8E-03
Sband delay (usec)	-1.20559500597E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	6.06668E-01	+/-	4.8E-03
Phase delay (usec)	-1.20565567334E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.67201E-06	+/-	3.9E-07
Delay rate (us/s)	-1.18040464886E+00	Apriori rate (us/s)	-1.18039987277E+00	Resid rate (us/s)	-4.77609E-06	+/-	2.2E-09
Total phase (deg)	-286.6	Apriori accel (us/s/s)	7.72469127492E-05	Resid phase (deg)	-97.0	+/-	12.1

ph/seg (deg)	RMS 93.2	Theor. 103.2	Amplitude Search (2048X8)	1.411 +/- 0.149	1.277	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.7	180.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.647	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.5	Inc. frq. avg.	1.403	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

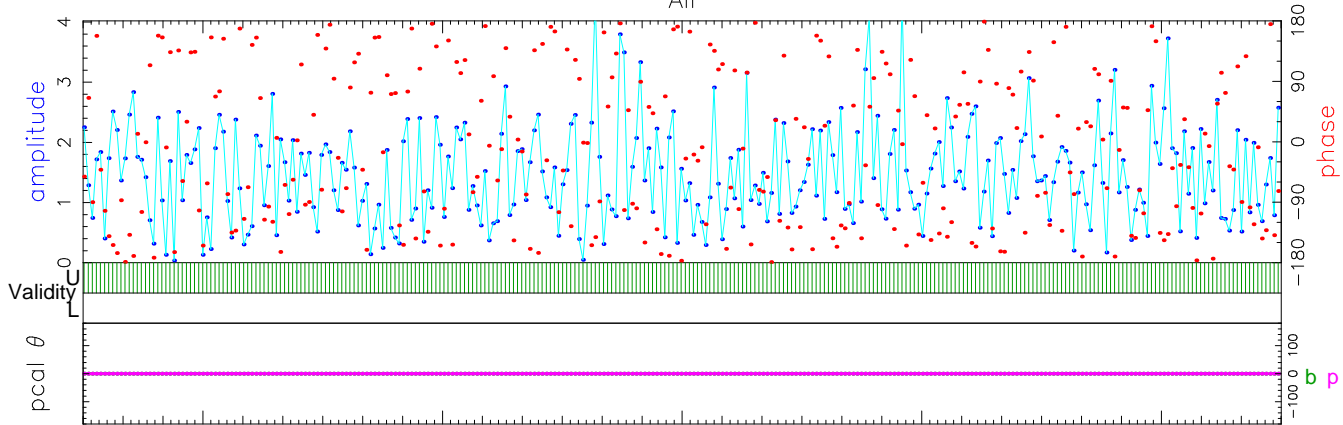
B: az 296.1 el 23.6 pa 43.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 8282.838 5630.391 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bp.W.79.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.956
Amp 1.340
Phase 314.2
PFD 1.5e-09
Delays (us)
SBD -0.429464
MBD -0.000007
Fringe rate (Hz)
-0.591591
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-176.5
0.4
1516.4
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UL

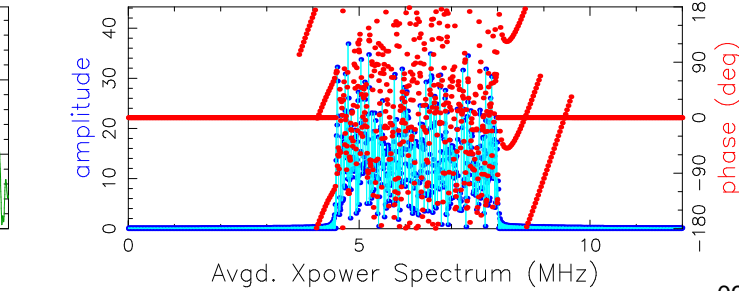
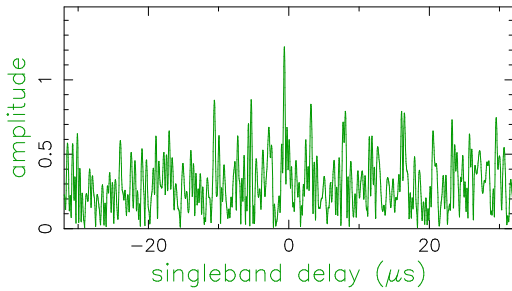
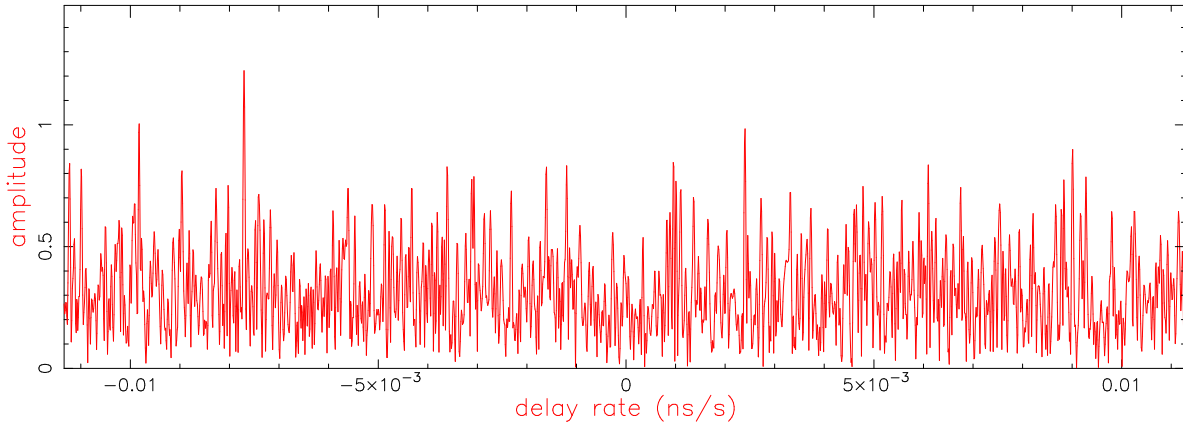
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.48876237187E+03	Apriori delay (usec)	-1.48833290563E+03	Resid mbdelay (usec)	-6.78859E-06	+/-	5.5E-03
Sband delay (usec)	-1.48876236963E+03	Apriori clock (usec)	-8.5217438E+00	Resid sbdelay (usec)	-4.29464E-01	+/-	5.5E-03
Phase delay (usec)	-1.48833291132E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-5.69038E-06	+/-	4.4E-07
Delay rate (us/s)	8.43378899196E-02	Apriori rate (us/s)	8.43447576993E-02	Resid rate (us/s)	-6.86778E-06	+/-	2.6E-09
Total phase (deg)	137.5	Apriori accel (us/s/s)	1.94118048248E-05	Resid phase (deg)	314.2	+/-	13.8

ph/seg (deg)	RMS 94.0	Theor. 117.9	Amplitude Search (2048X8)	1.340 +/- 0.161	1.125	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.7	205.8	Interp.	0.000	1.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.553	1.125	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.329	1.125	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
					1.125	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					1.125	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

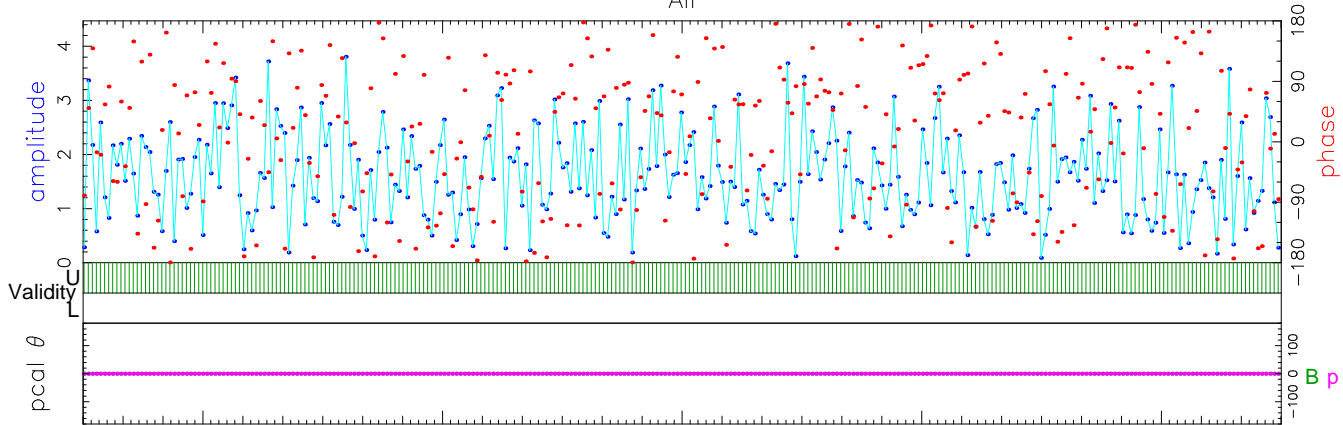
b: az 107.5 el 62.2 pa -50.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -564.708 2371.389 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/bp.W.86.1T5GU7

Fringe quality 8



SNR 8.9
Int time 299.973
Amp 1.490
Phase 318.1
PFD 1.3e-11
Delays (us)
SBD -0.639931
MBD -0.000004
Fringe rate (Hz)
-0.663544
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



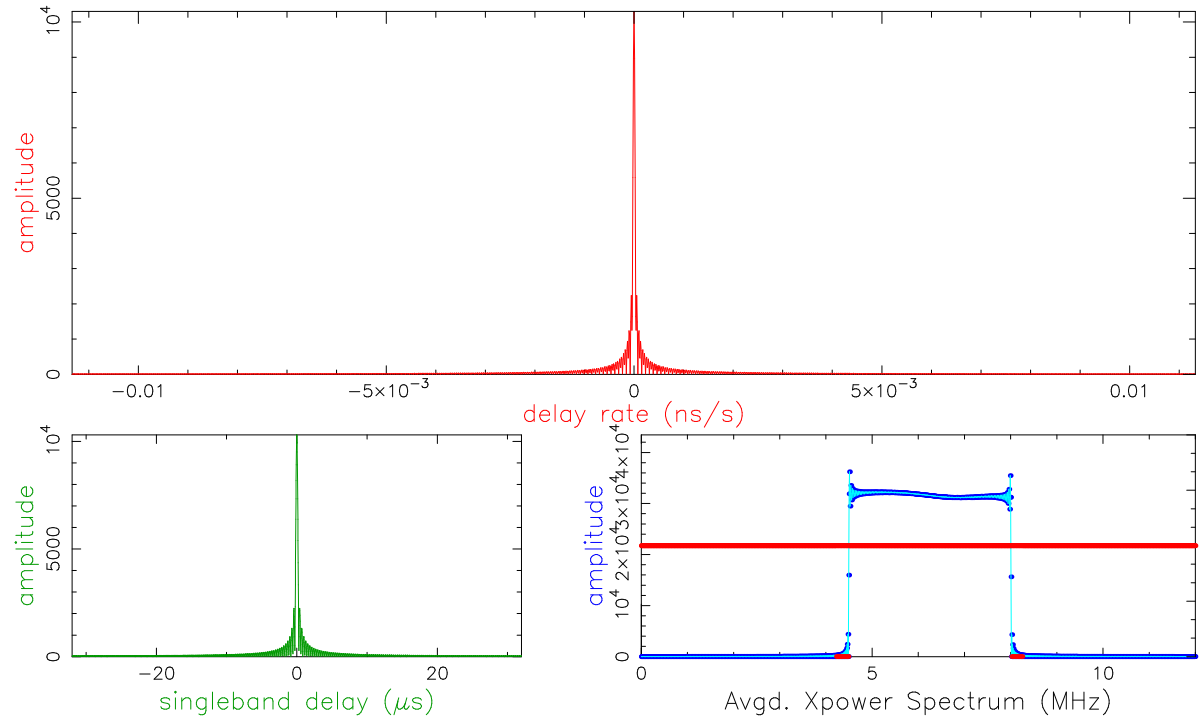
86227.00
75.6
0.4
1506.3
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UL
p W03UR

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)	-1.20571966593E+04	Apriori delay (usec)	-1.20565567277E+04	Resid mbdelay (usec)	-4.35353E-06	+/- 5.2E-03
Sband delay (usec)	-1.20571966584E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	-6.39931E-01	+/- 5.2E-03
Phase delay (usec)	-1.20565567253E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.43857E-06	+/- 4.2E-07
Delay rate (us/s)	-1.18040757585E+00	Apriori rate (us/s)	-1.18039987277E+00	Resid rate (us/s)	-7.70308E-06	+/- 2.4E-09
Total phase (deg)	128.6	Apriori accel (us/s/s)	7.72469127492E-05	Resid phase (deg)	318.1	+/- 12.9

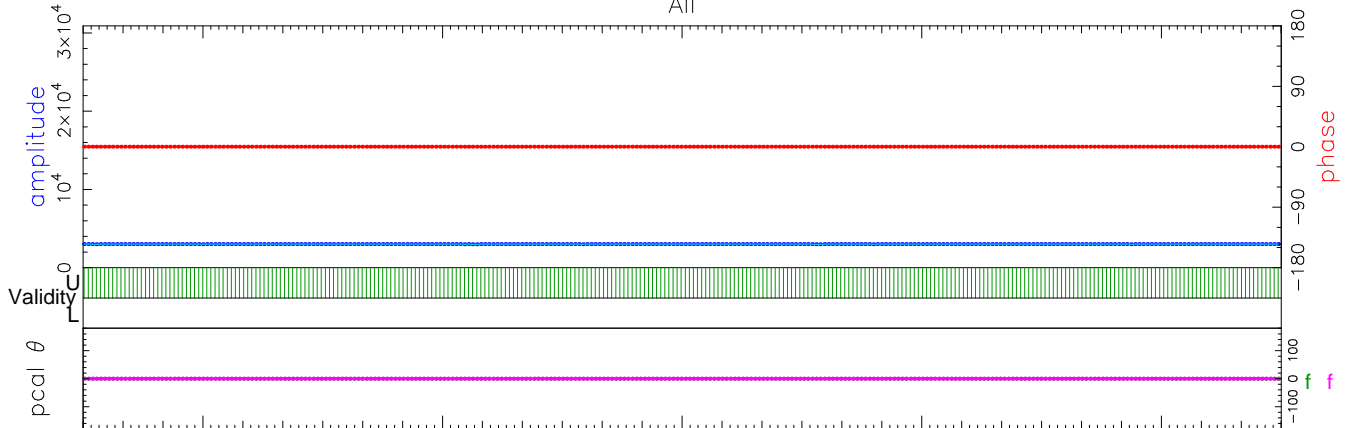
ph/seg (deg)	RMS 94.2	Theor. 110.6	Amplitude 1.490 +/- 0.168	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.1	193.0	Search (2048X8) 1.208	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.3	Inc. seg. avg. 0.688	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.480	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

B: az 296.1 el 23.6 pa 43.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 8282.838 5630.391 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/Bp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/Bp.W.94.1T5GU7



Fringe quality 5
SNR 74703.1
Int time 299.973
Amp 10302.542
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

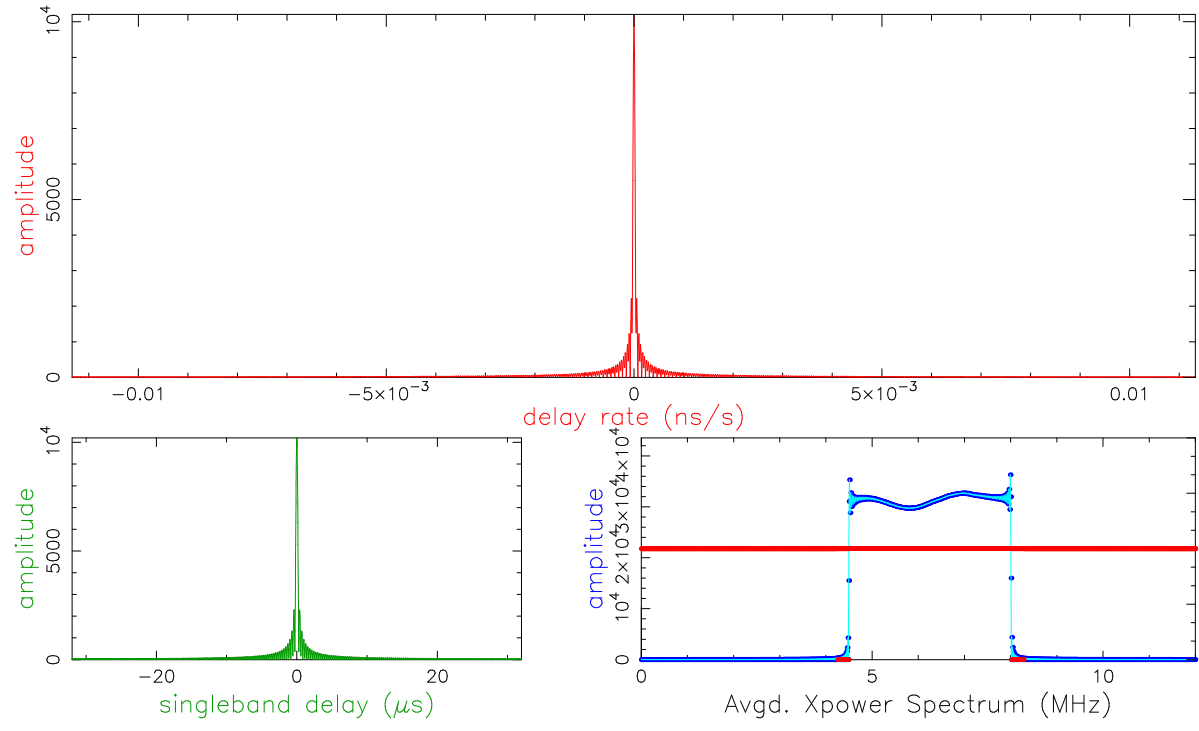
Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00		Freq (MHz)
0.2		Phase
3018.3		Ampl.
1537.0		Sbd box
U/L 586/0		APs used
f 0		PC freqs
f 0		PC freqs
f:f 0:0		PC phase
f:f 0:0		ManI PC
f 1000		PC amp
f 1000		
f W03UL		Chan ids
f W03UL		Chan ids

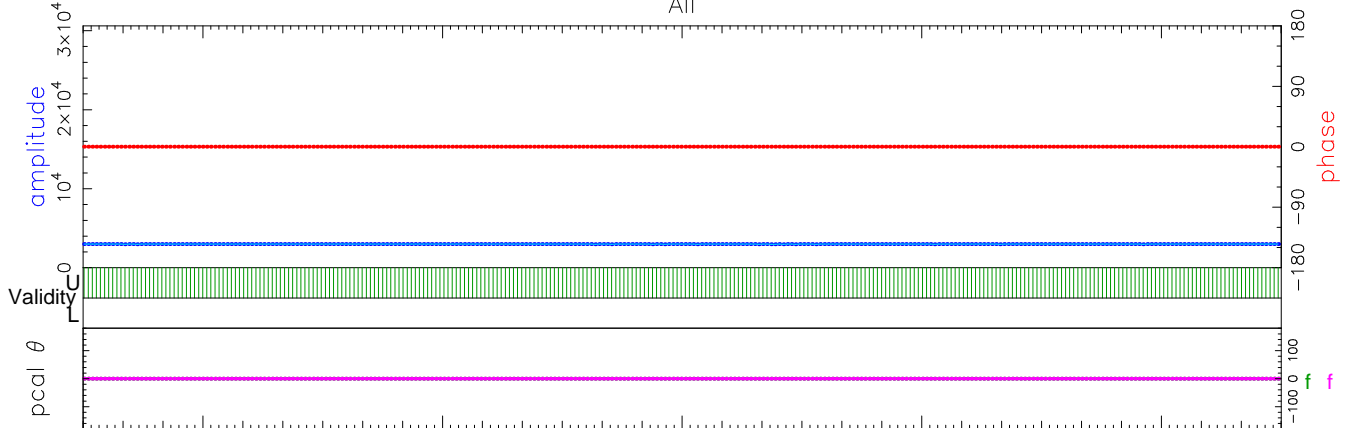
Group delay (usec)(sbd)	5.00028993239E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.59701E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	7.12237658210E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.12238E-09	+/-	4.9E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-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	10302.542 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10302.543	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3018.323	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.	10302.543	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00



Fringe quality 5
SNR 74015.6
Int time 299.973
Amp 10207.720
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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

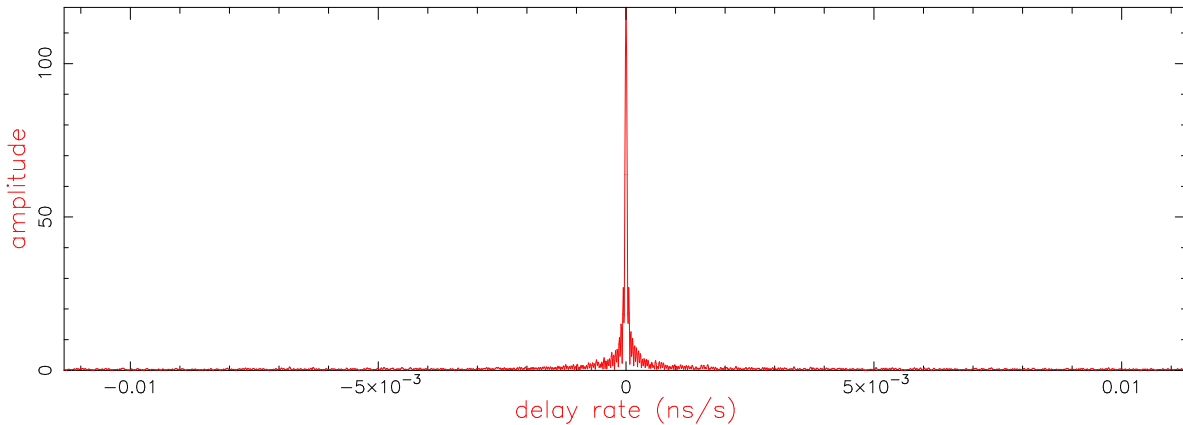


86227.00		Freq (MHz)
0.2		Phase
2990.5		Ampl.
1537.0		Sbd box
U/L 586/0		APs used
f 0		PC freqs
f 0		PC freqs
f:f 0:0		PC phase
f:f 0:0		Manl PC
f 1000		PC amp
f 1000		
f W03UR		Chan ids
f W03UR		Chan ids

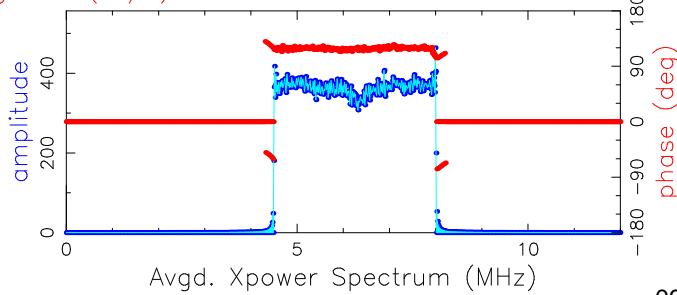
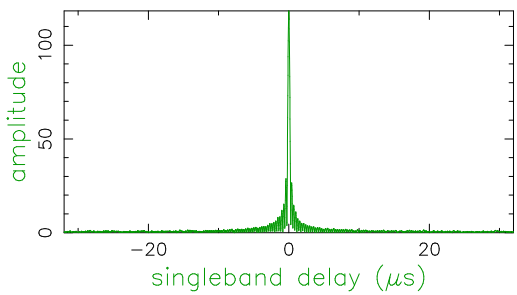
Group delay (usec)(sbd)	4.70989365280E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.88740E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	7.43589938221E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43590E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-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	10207.720 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10207.719	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2990.542	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10207.720	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

Fringe quality 5

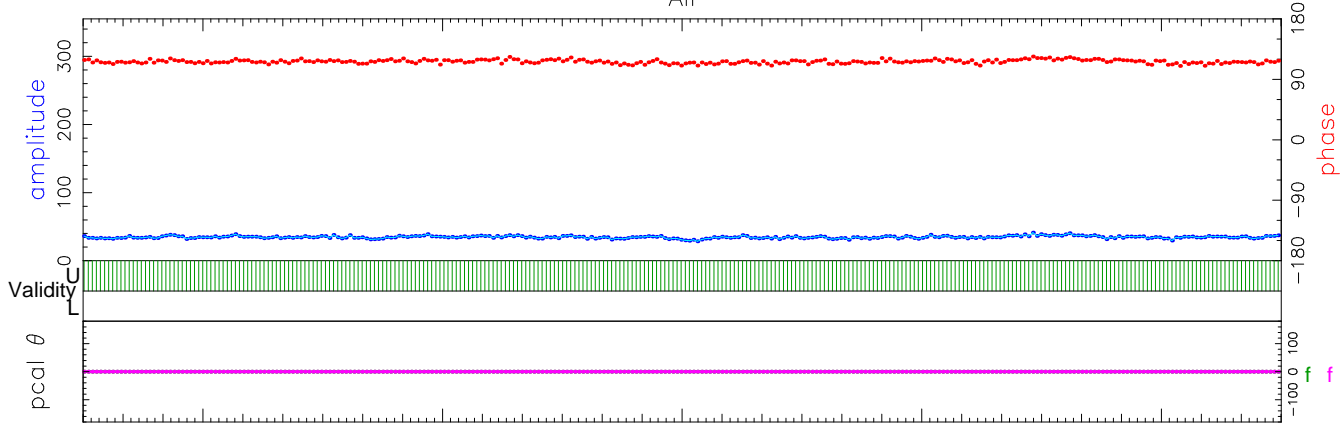


SNR 858.0
Int time 299.973
Amp 118.336
Phase 147.7
PFD 0.0e+00
Delays (us)
SBD -0.001004
MBD -0.000005
Fringe rate (Hz)
-0.000009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
116.5
34.7
1537.0
U/L 586/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UL
f W03UR

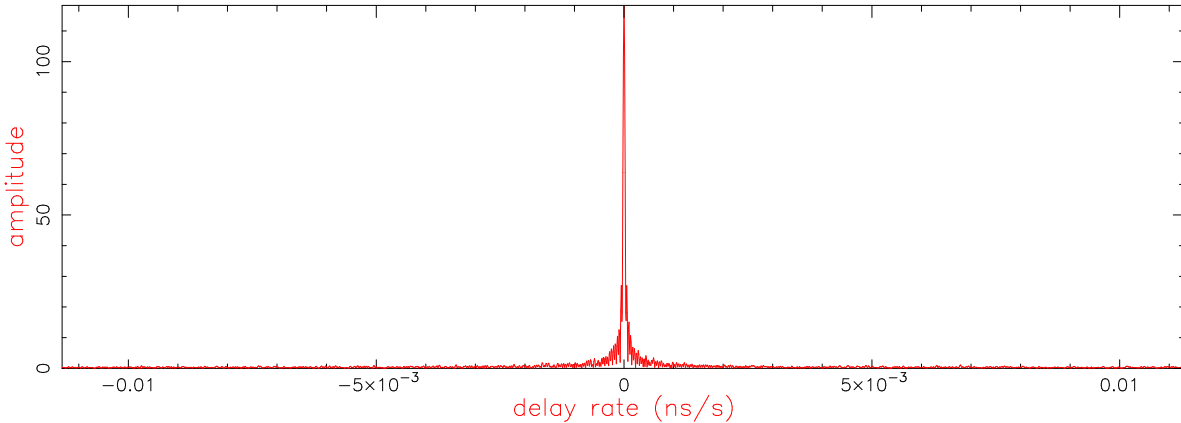
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00213510849E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.76769E-06	+/-	5.4E-05
Sband delay (usec)	-1.00400000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.00400E-03	+/-	5.4E-05
Phase delay (usec)	3.75681173983E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.75681E-06	+/-	4.3E-09
Delay rate (us/s)	-9.91980667418E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-9.91981E-11	+/-	2.5E-11
Total phase (deg)	147.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	147.7	+/-	0.1

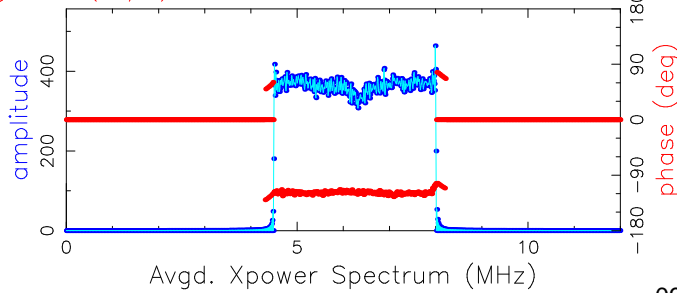
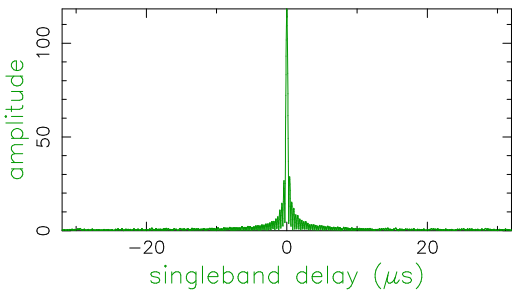
ph/seg (deg)	RMS 2.7	Theor. 1.1	Amplitude 118.336 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	2.0	Search (2048X8) 118.332	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.1	Inc. seg. avg. 34.700	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 118.333	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/ff..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/ff.W.80.1T5GU7

Fringe quality 5

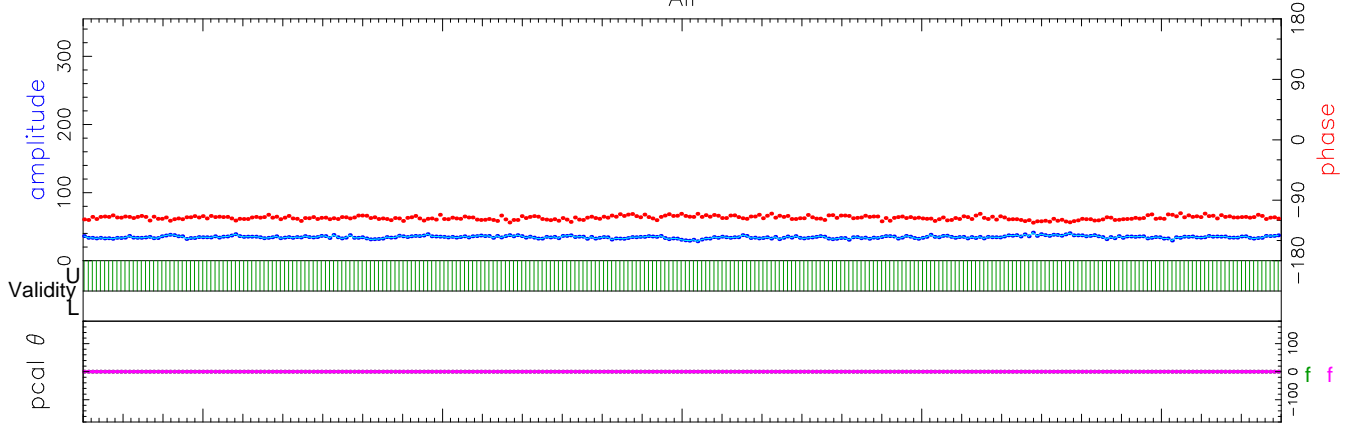


SNR 858.0
Int time 299.973
Amp 118.336
Phase -147.7
PFD 0.0e+00
Delays (us)
SBD 0.001004
MBD -0.000006
Fringe rate (Hz)
0.000009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-116.1
34.7
1537.0
U/L 586/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UR
f W03UL

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

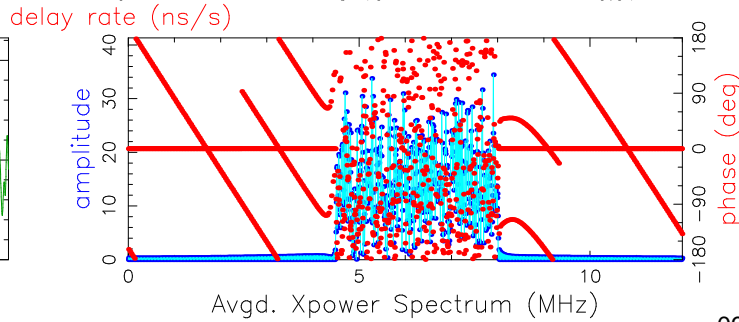
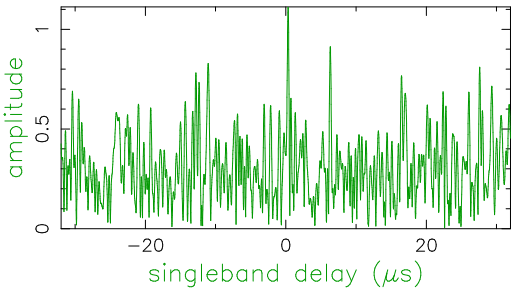
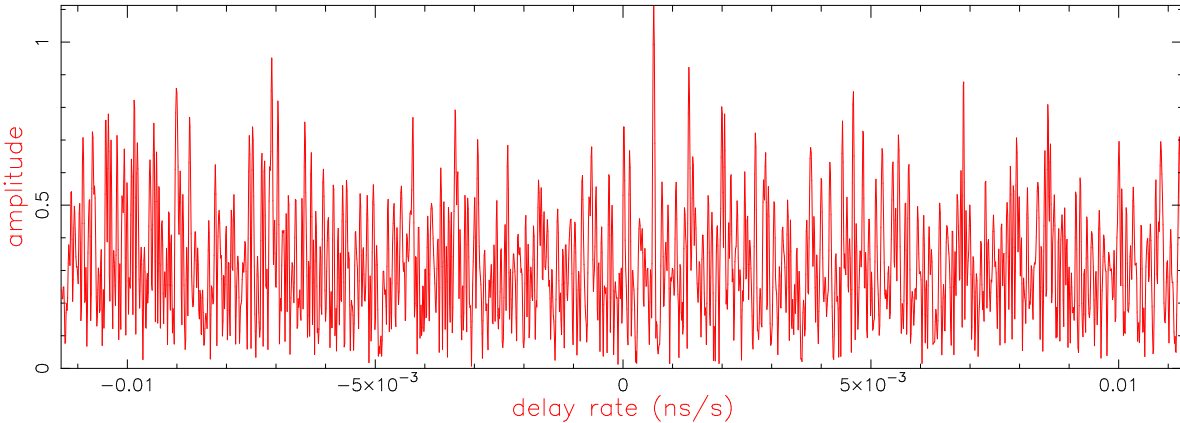
Group delay (usec)(sbd)	1.00260651536E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.35819E-06	+/- 5.4E-05
Sband delay (usec)	1.00400000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.00400E-03	+/- 5.4E-05
Phase delay (usec)	-3.74479980967E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.74480E-06	+/- 4.3E-09
Delay rate (us/s)	9.91980667418E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	9.91981E-11	+/- 2.5E-11
Total phase (deg)	-147.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-147.7	+/- 0.1

ph/seg (deg)	2.7	Theor.	1.1	Amplitude	118.336 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.1	Search (2048X8)	118.332	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	34.700	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	118.333	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

f: az 70.7 el 75.3 pa -100.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

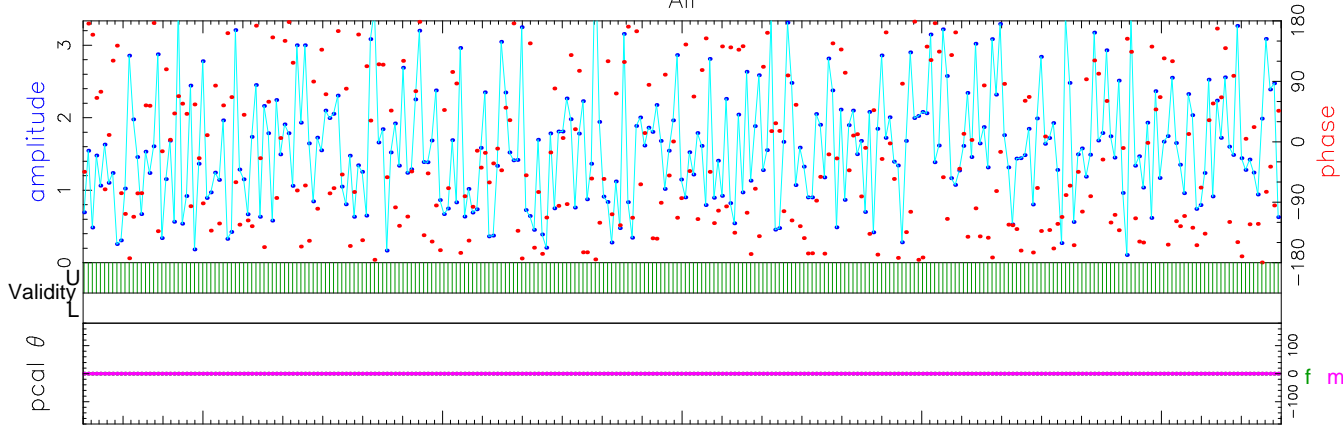
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/ff..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/ff.W.92.1T5GU7

Fringe quality 8



SNR 8.1
Int time 299.973
Amp 1.112
Phase -261.2
PFD 1.3e-08
Delays (us)
SBD 0.326053
MBD 0.000006
Fringe rate (Hz)
0.053823
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-129.5
0.3
1552.6
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UR

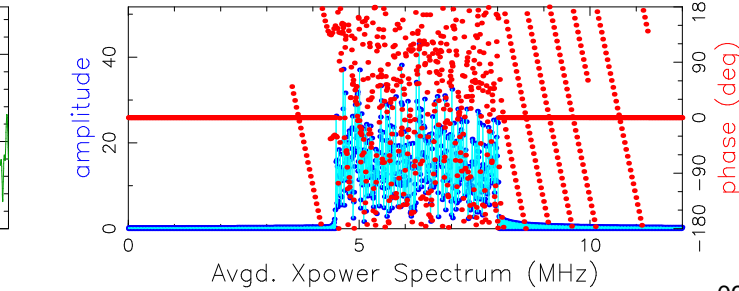
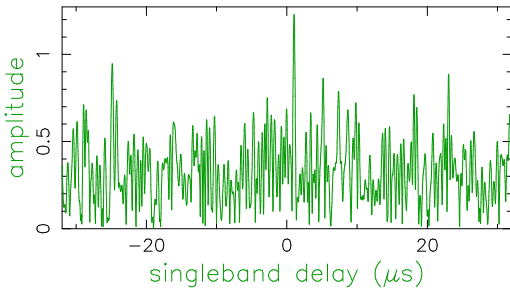
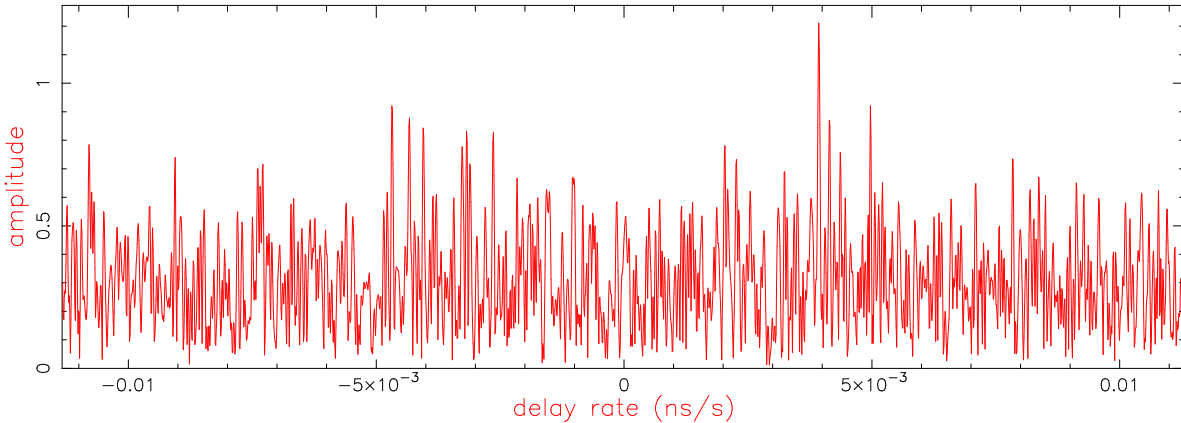
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.02773564694E+04	Apriori delay (usec)	1.02770304166E+04	Resid mbdelay (usec)	6.42537E-06	+/-	5.7E-03
Sband delay (usec)	1.02773564699E+04	Apriori clock (usec)	-5.4558868E+00	Resid sbdelay (usec)	3.26053E-01	+/-	5.7E-03
Phase delay (usec)	1.02770304124E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.17529E-06	+/-	4.6E-07
Delay rate (us/s)	-8.08208344744E-01	Apriori rate (us/s)	-8.08208969572E-01	Resid rate (us/s)	6.24827E-07	+/-	2.6E-09
Total phase (deg)	-230.1	Apriori accel (us/s/s)	-4.38128923433E-05	Resid phase (deg)	-261.2	+/-	14.2

ph/seg (deg)	RMS 93.9	Theor. 121.7	Amplitude Search (2048X8)	1.112 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.0	212.5	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	7.1	Inc. seg. avg.	0.493	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.103	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

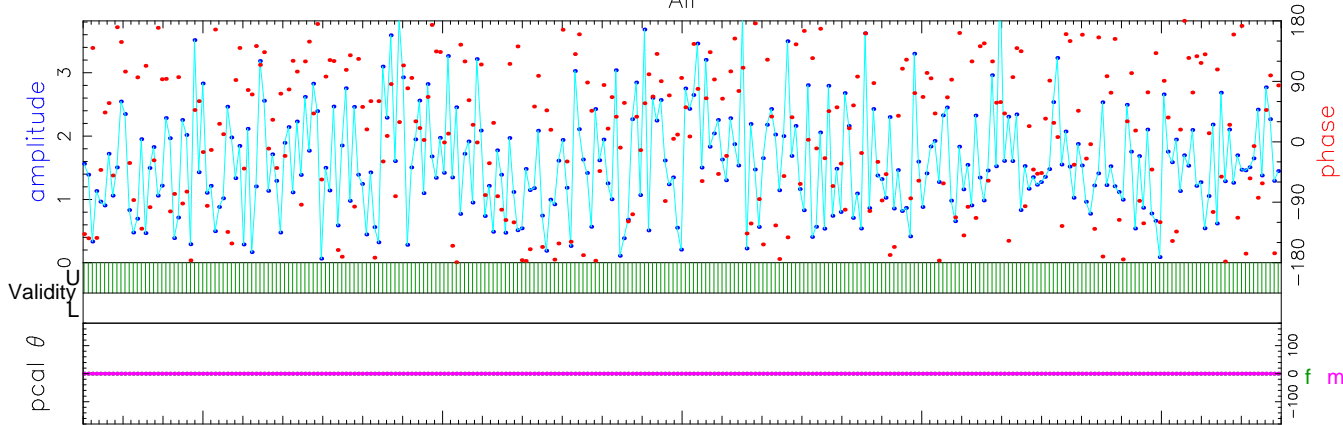
f: az 70.7 el 75.3 pa -100.1 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 5557.882 -1146.145 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fm.W.119.1T5GU7

Fringe quality 8



SNR 8.8
Int time 299.973
Amp 1.273
Phase -269.9
PFD 2.8e-11
Delays (us)
SBD 1.000000
MBD 0.000007
Fringe rate (Hz)
0.337898
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
89.7
0.4
1586.4
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UL

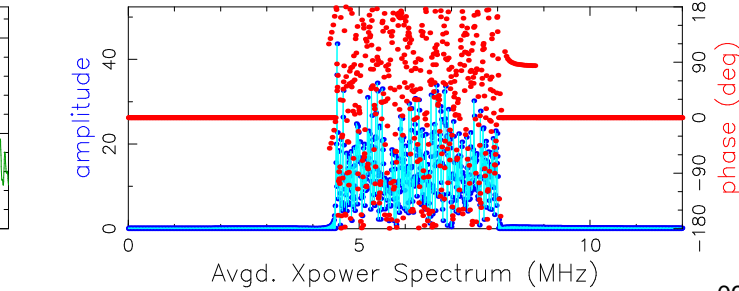
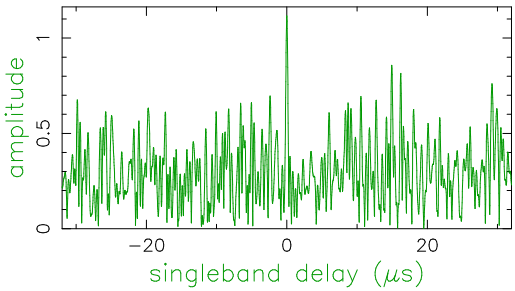
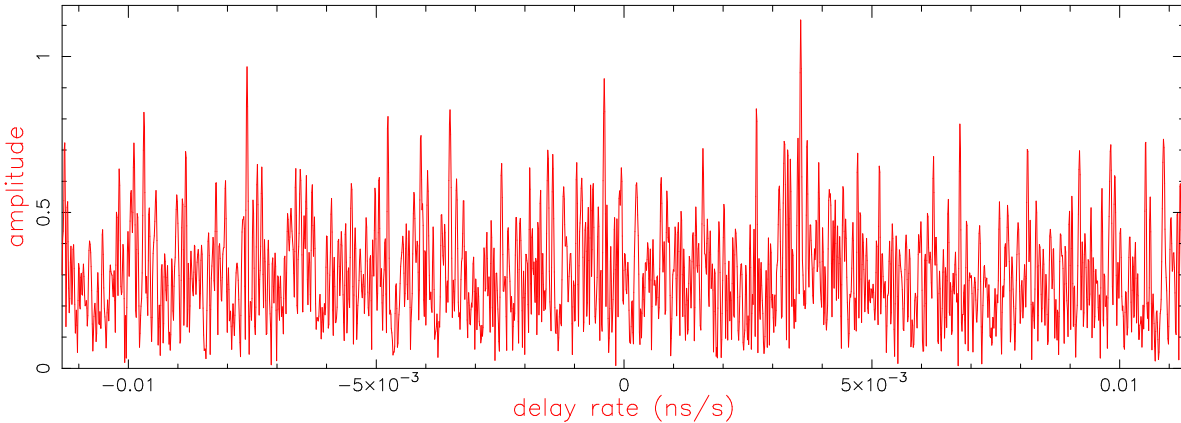
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.02780304122E+04	Apriori delay (usec)	1.02770304166E+04	Resid mbdelay (usec)	7.18452E-06	+/-	5.2E-03
Sband delay (usec)	1.02780304166E+04	Apriori clock (usec)	-5.4558868E+00	Resid sbdelay (usec)	1.00000E+00	+/-	5.2E-03
Phase delay (usec)	1.02770304195E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.89217E-06	+/-	4.2E-07
Delay rate (us/s)	-8.08205046912E-01	Apriori rate (us/s)	-8.08208969572E-01	Resid rate (us/s)	3.92266E-06	+/-	2.4E-09
Total phase (deg)	-238.8	Apriori accel (us/s/s)	-4.38128923433E-05	Resid phase (deg)	-269.9	+/-	13.0

ph/seg (deg)	RMS 94.4	Theor. 111.7	Amplitude 1.273 +/- 0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.3	194.9	Search (2048X8) 1.194	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.4	Inc. seg. avg. 0.579	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.265	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

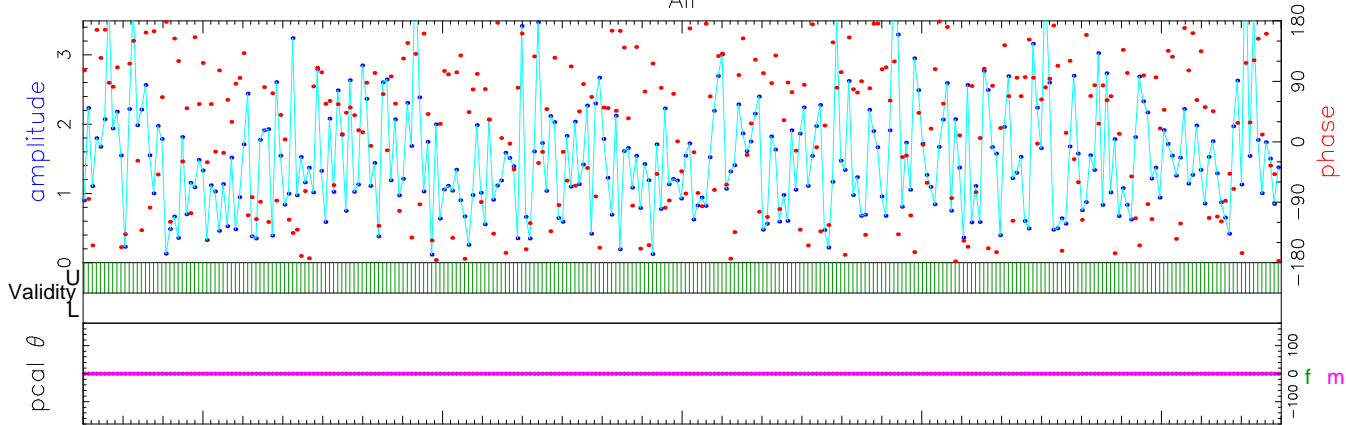
f: az 70.7 el 75.3 pa -100.1 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 5557.882 -1146.145 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fm.W.133.1T5GU7

Fringe quality 8



SNR 8.1
Int time 299.973
Amp 1.164
Phase 22.1
PFD 8.8e-09
Delays (us)
SBD 0.002884
MBD 0.000007
Fringe rate (Hz)
0.306433
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051936
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
112.2
0.3
1537.1
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UL

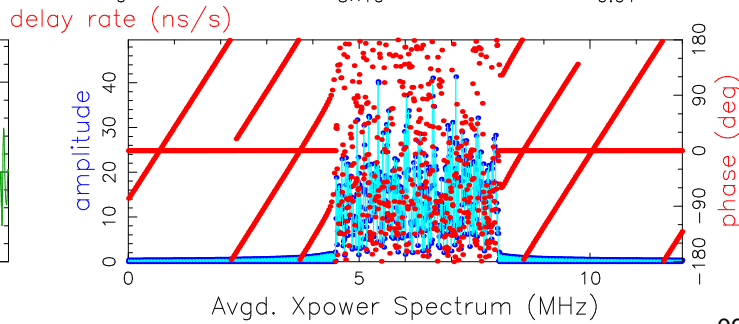
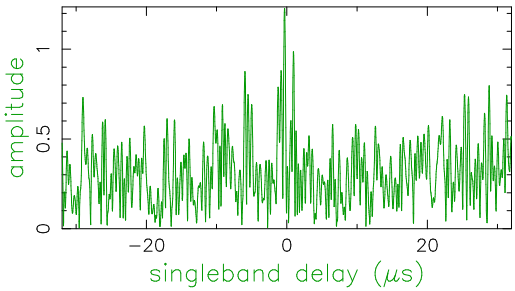
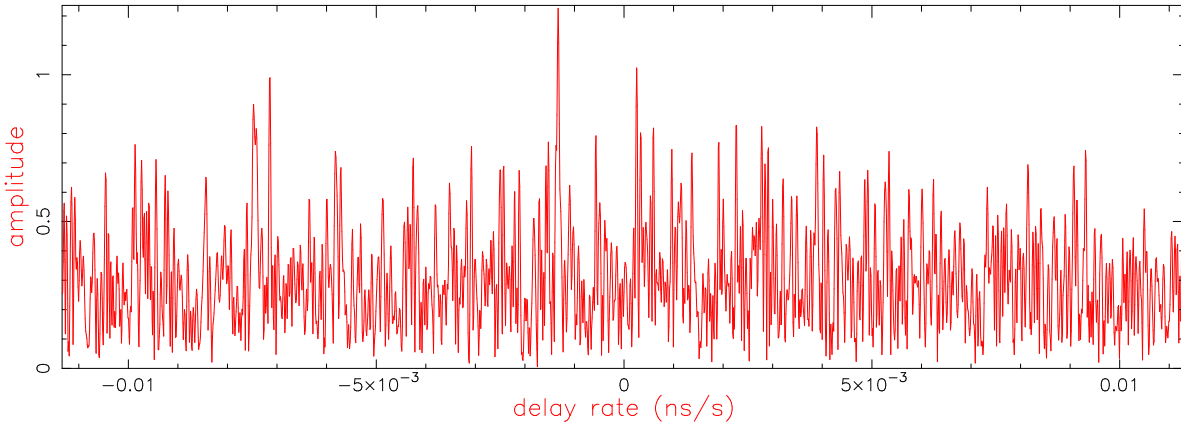
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.02770333000E+04	Apriori delay (usec)	1.02770304166E+04	Resid mbdelay (usec)	7.24175E-06	+/-	5.7E-03
Sband delay (usec)	1.02770333006E+04	Apriori clock (usec)	-5.4558868E+00	Resid sbdelay (usec)	2.88400E-03	+/-	5.7E-03
Phase delay (usec)	1.02770304202E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	3.61776E-06	+/-	4.6E-07
Delay rate (us/s)	-8.08205412183E-01	Apriori rate (us/s)	-8.08208969572E-01	Resid rate (us/s)	3.55739E-06	+/-	2.6E-09
Total phase (deg)	53.3	Apriori accel (us/s/s)	-4.38128923433E-05	Resid phase (deg)	22.1	+/-	14.1

ph/seg (deg)	RMS 92.9	Theor. 121.0	Amplitude 1.164 +/- 0.144	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.3	211.3	Search (2048X8) 1.090	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. seg. avg. 0.488	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.155	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

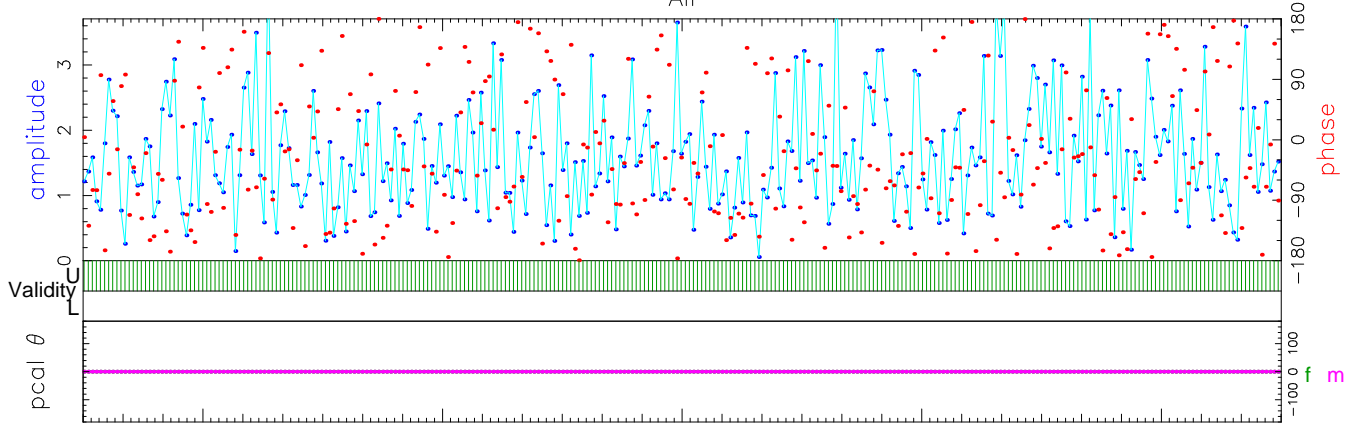
f: az 70.7 el 75.3 pa -100.1 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 5557.882 -1146.145 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fm.W.68.1T5GU7

Fringe quality 8



SNR 8.9
Int time 299.973
Amp 1.236
Phase 303.7
PFD 8.9e-12
Delays (us)
SBD -0.322688
MBD -0.000007
Fringe rate (Hz)
-0.114538
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-82.8
0.4
1521.5
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UR

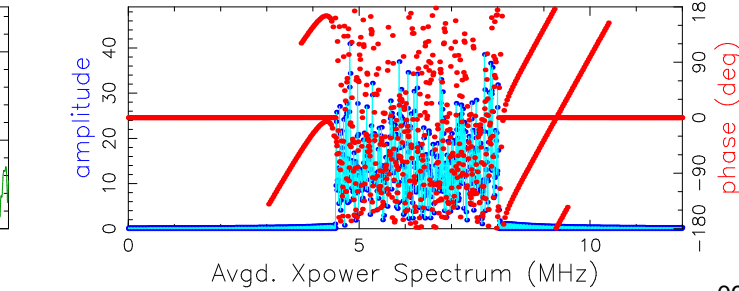
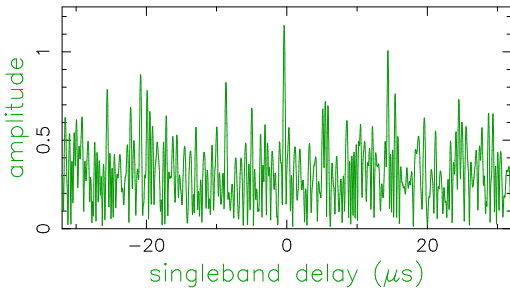
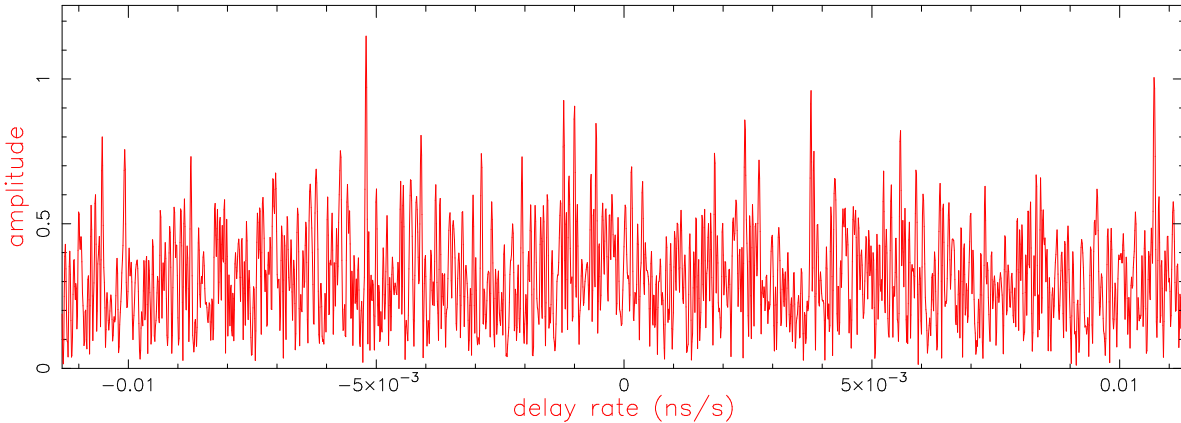
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.02767077263E+04	Apriori delay (usec)	1.02770304166E+04	Resid mbdelay (usec)	-7.18531E-06	+/- 5.2E-03
Sband delay (usec)	1.02767077286E+04	Apriori clock (usec)	-5.4558868E+00	Resid sbdelay (usec)	-3.22688E-01	+/- 5.2E-03
Phase delay (usec)	1.02770304139E+04	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.66867E-06	+/- 4.1E-07
Delay rate (us/s)	-8.08210299240E-01	Apriori rate (us/s)	-8.08208969572E-01	Resid rate (us/s)	-1.32967E-06	+/- 2.4E-09
Total phase (deg)	334.8	Apriori accel (us/s/s)	-4.38128923433E-05	Resid phase (deg)	303.7	+/- 12.9

ph/seg (deg)	RMS 92.3	Theor. 110.0	Amplitude 1.236 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.6	192.0	Search (2048X8) 1.212	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.2	Inc. seg. avg. 0.568	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.226	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

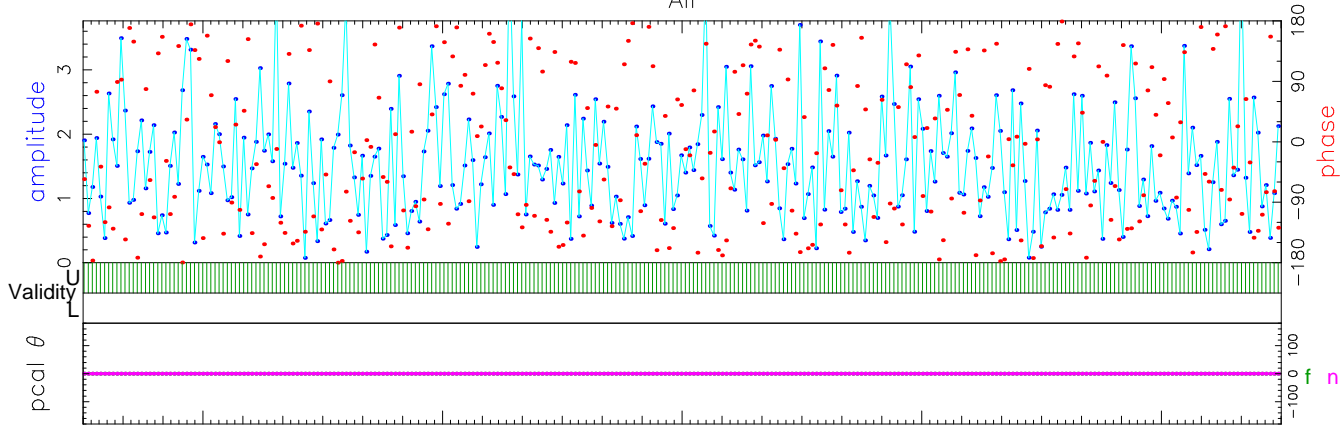
f: az 70.7 el 75.3 pa -100.1 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 5557.882 -1146.145 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fm.W.81.1T5GU7

Fringe quality 8



SNR 8.3
Int time 299.972
Amp 1.254
Phase 150.7
PFD 1.4e-09
Delays (us)
SBD -0.377556
MBD -0.000007
Fringe rate (Hz)
-0.448087
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



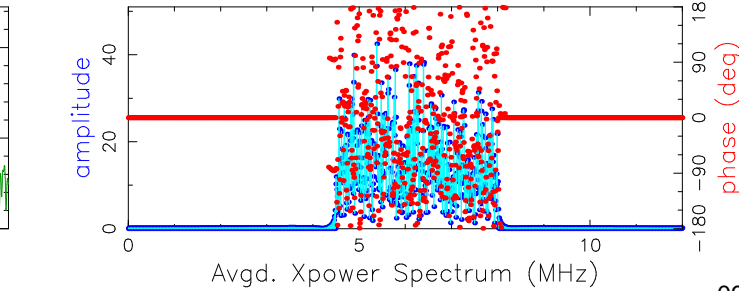
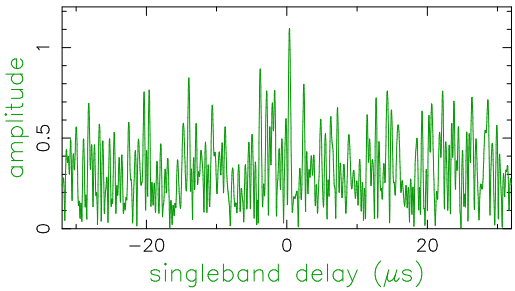
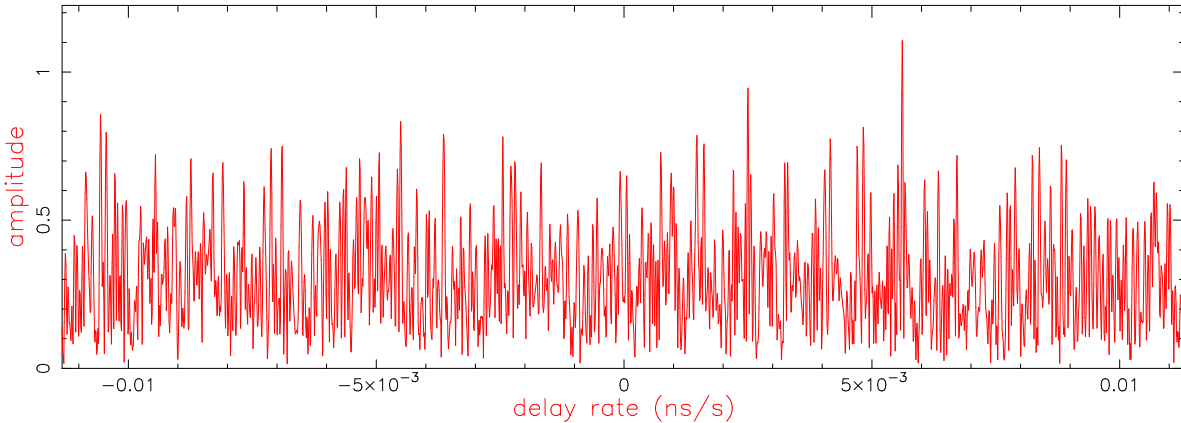
86227.00
-154.1
0.4
1518.9
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UL

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)	-4.30740969247E+02	Apriori delay (usec)	-4.30363412057E+02	Resid mbdelay (usec)	-7.23430E-06	+/- 5.5E-03
Sband delay (usec)	-4.30740968057E+02	Apriori clock (usec)	4.7771130E+00	Resid sbdelay (usec)	-3.77556E-01	+/- 5.5E-03
Phase delay (usec)	-4.30363417028E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.97082E-06	+/- 4.4E-07
Delay rate (us/s)	2.43635897672E-01	Apriori rate (us/s)	2.43641099521E-01	Resid rate (us/s)	-5.20185E-06	+/- 2.6E-09
Total phase (deg)	37.5	Apriori accel (us/s/s)	-7.66010471120E-06	Resid phase (deg)	150.7	+/- 13.8

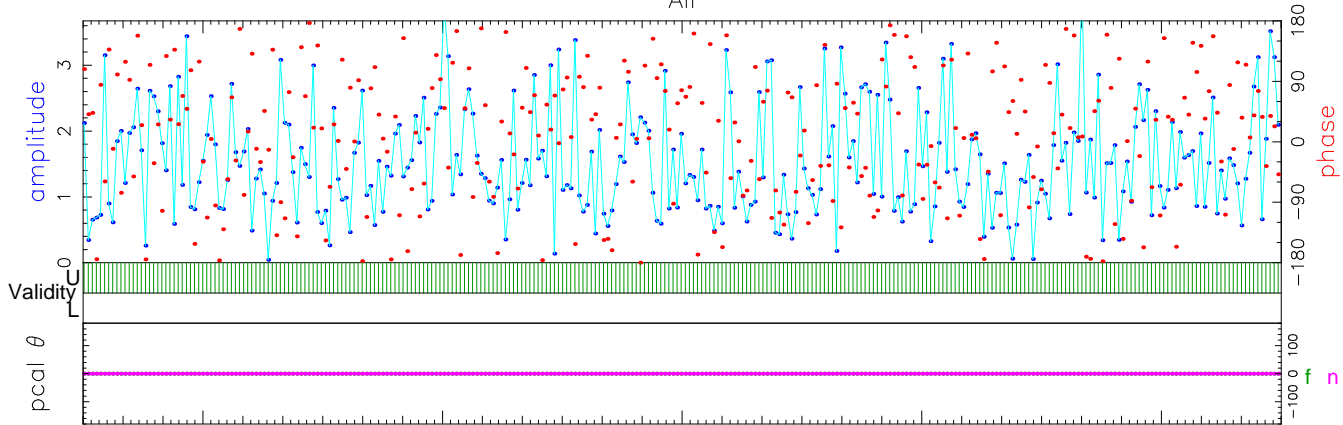
ph/seg (deg)	RMS 93.8	Theor. 117.8	Amplitude Search (2048X8)	1.254 +/- 0.151	1.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.0	205.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.546	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.245	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				f, v (fr/asec) -1698.785 -1545.394	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8



SNR 8.0
Int time 299.972
Amp 1.225
Phase -127.2
PFD 1.8e-08
Delays (us)
SBD 0.373043
MBD 0.000007
Fringe rate (Hz)
0.482858
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051935
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
36.4
0.4
1554.9
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UL
n W03UL

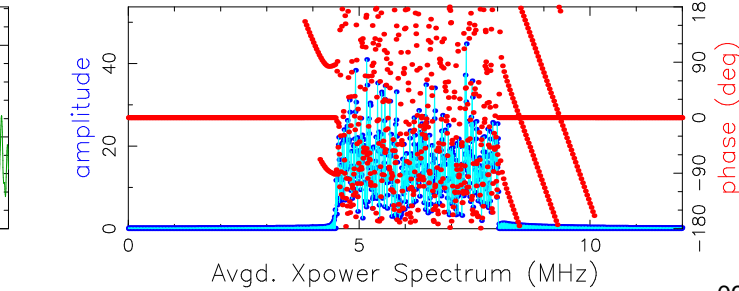
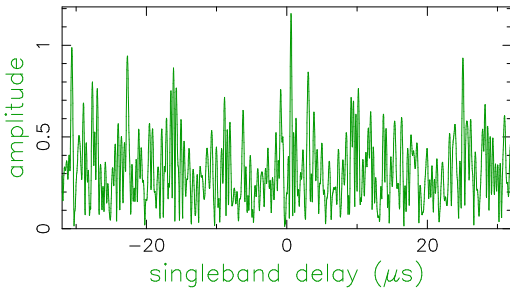
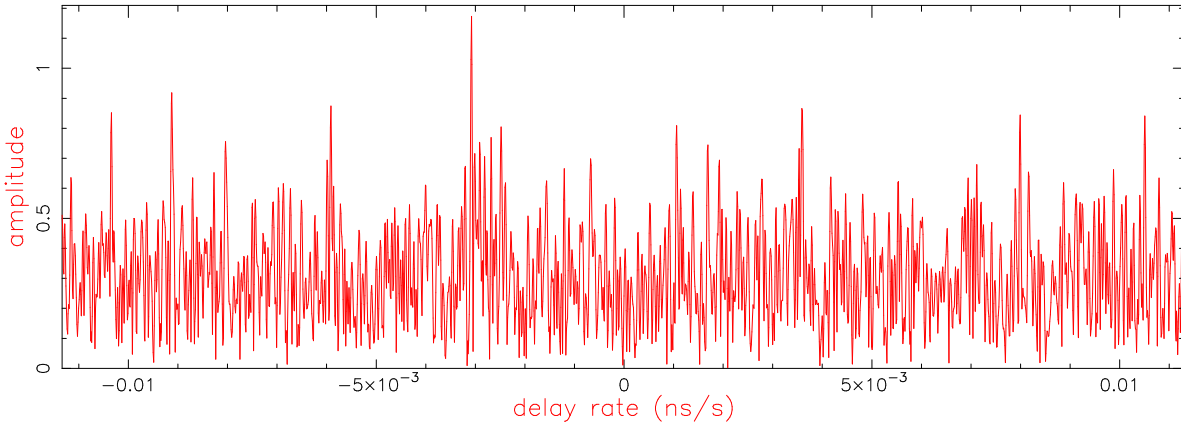
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.29990366217E+02	Apriori delay (usec)	-4.30363412057E+02	Resid mbdelay (usec)	7.23340E-06	+/-	5.7E-03
Sband delay (usec)	-4.29990369391E+02	Apriori clock (usec)	4.7771130E+00	Resid sbdelay (usec)	3.73043E-01	+/-	5.7E-03
Phase delay (usec)	-4.30363410884E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	1.17347E-06	+/-	4.6E-07
Delay rate (us/s)	2.43646705024E-01	Apriori rate (us/s)	2.43641099521E-01	Resid rate (us/s)	5.60550E-06	+/-	2.7E-09
Total phase (deg)	-240.4	Apriori accel (us/s/s)	-7.66010471120E-06	Resid phase (deg)	-127.2	+/-	14.3

ph/seg (deg)	RMS 92.0	Theor. 122.4	Amplitude Search (2048X8)	1.225 +/- 0.153	1.084	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	83.7	213.6	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	7.1	Inc. seg. avg.	0.519	0.519	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.215	1.215	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

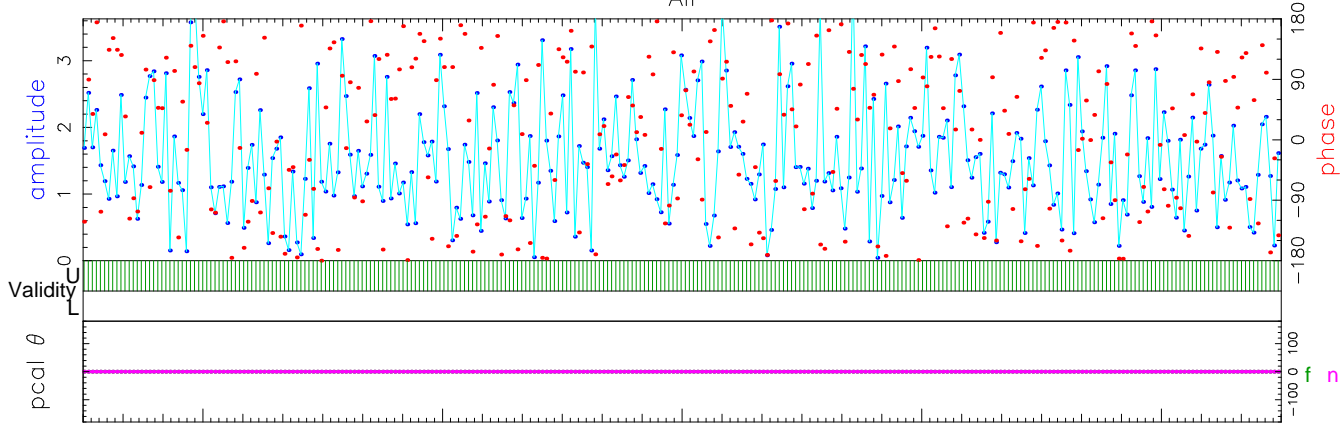
f: az 70.7 el 75.3 pa -100.1 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) -1698.785 -1545.394 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fn.W.62.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.972
Amp 1.210
Phase -318.3
PFD 3.0e-10
Delays (us)
SBD 0.600395
MBD -0.000004
Fringe rate (Hz)
-0.264735
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
126.4
0.4
1565.8
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UR

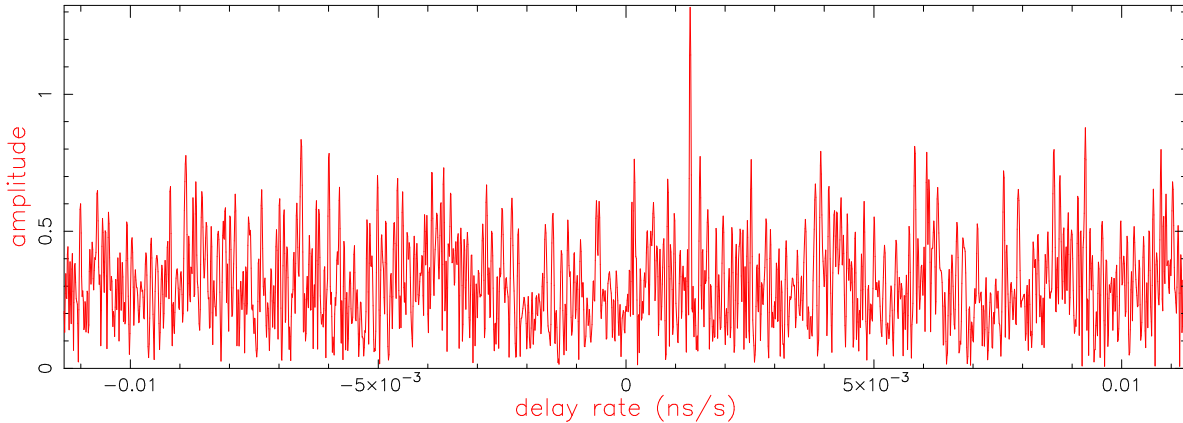
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.29763012842E+02	Apriori delay (usec)	-4.30363412057E+02	Resid mbdelay (usec)	-4.37044E-06	+/-	5.4E-03
Sband delay (usec)	-4.29763017391E+02	Apriori clock (usec)	4.7771130E+00	Resid sbdelay (usec)	6.00395E-01	+/-	5.4E-03
Phase delay (usec)	-4.30363407983E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.07460E-06	+/-	4.3E-07
Delay rate (us/s)	2.43638026210E-01	Apriori rate (us/s)	2.43641099521E-01	Resid rate (us/s)	-3.07331E-06	+/-	2.5E-09
Total phase (deg)	-71.5	Apriori accel (us/s/s)	-7.66010471120E-06	Resid phase (deg)	-318.3	+/-	13.5

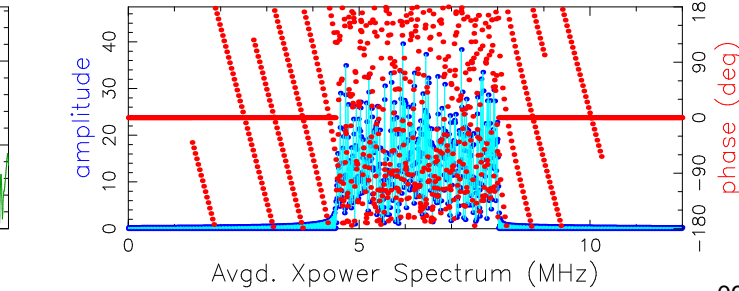
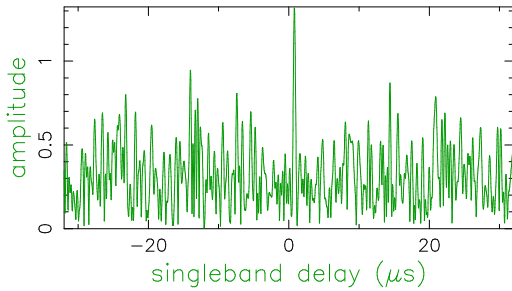
ph/seg (deg)	RMS 93.1	Theor. 115.3	Amplitude Search (2048X8)	1.210 +/- 0.142	1.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	78.7	201.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.528	0.528	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.201	1.201	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 70.7 el 75.3 pa -100.1 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) -1698.785 -1545.394 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fn.W.76.1T5GU7

Fringe quality 8

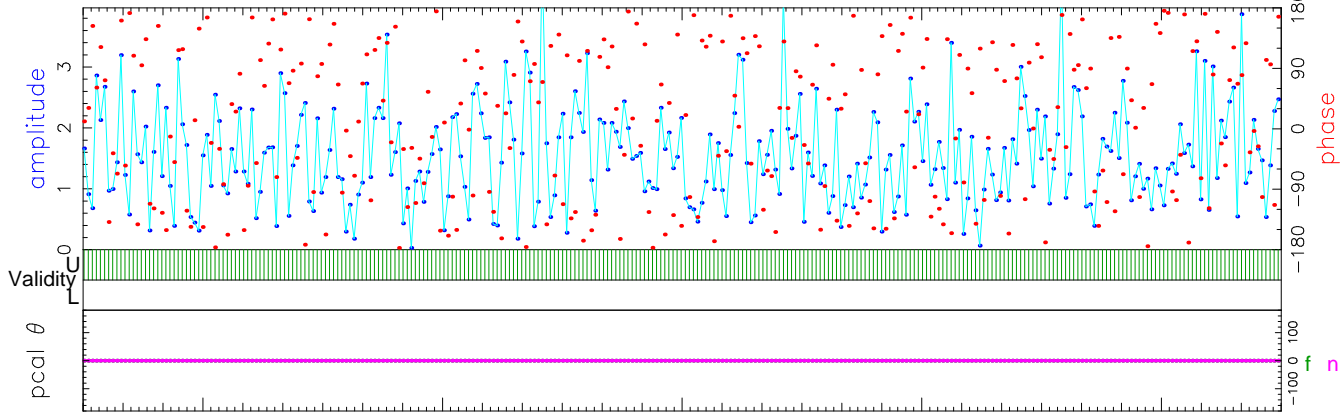


SNR 9.5
Int time 299.972
Amp 1.324
Phase -204.0
PFD 2.5e-14
Delays (us)
SBD 0.792468
MBD 0.000007
Fringe rate (Hz)
0.111912
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
136.0
0.4
1575.0
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UL
n W03UR

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)	-4.29570938434E+02	Apriori delay (usec)	-4.30363412057E+02	Resid mbdelay (usec)	7.22651E-06	+/-	4.8E-03
Sband delay (usec)	-4.29570944057E+02	Apriori clock (usec)	4.7771130E+00	Resid sbdelay (usec)	7.92468E-01	+/-	4.8E-03
Phase delay (usec)	-4.30363407671E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.38591E-06	+/-	3.9E-07
Delay rate (us/s)	2.43642398709E-01	Apriori rate (us/s)	2.43641099521E-01	Resid rate (us/s)	1.29919E-06	+/-	2.2E-09
Total phase (deg)	-317.3	Apriori accel (us/s/s)	-7.66010471120E-06	Resid phase (deg)	-204.0	+/-	12.0

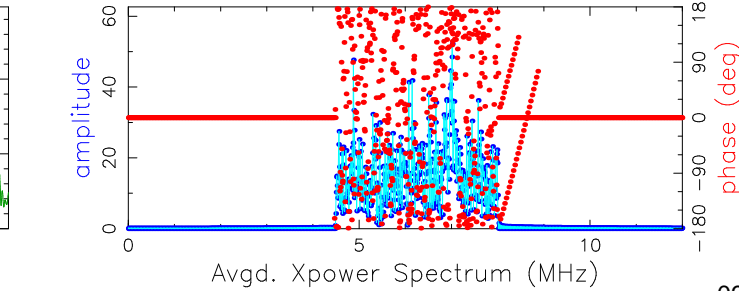
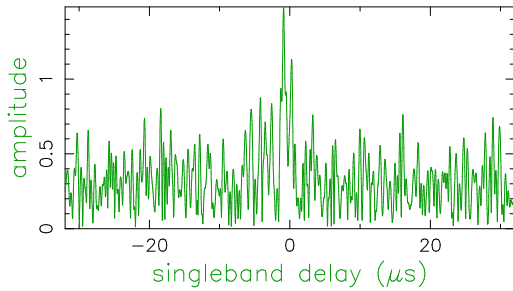
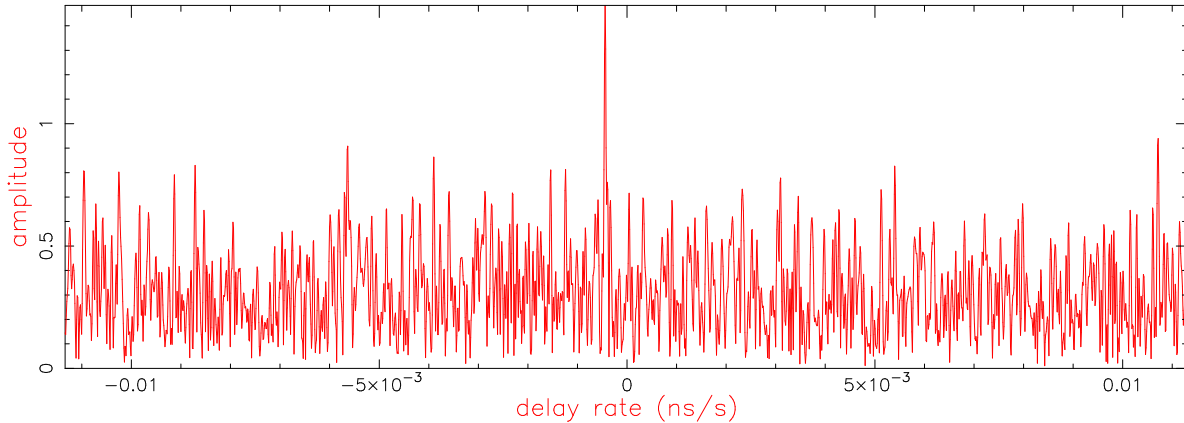
ph/seg (deg)	RMS 94.4	Theor. 102.7	Amplitude Search (2048X8)	1.324 +/- 0.139	1.285	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	64.8	179.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.599	0.599	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.5	Inc. frq. avg.	1.317	1.317	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 70.7 el 75.3 pa -100.1 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) -1698.785 -1545.394 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fn.W.95.1T5GU7

Fringe quality 7

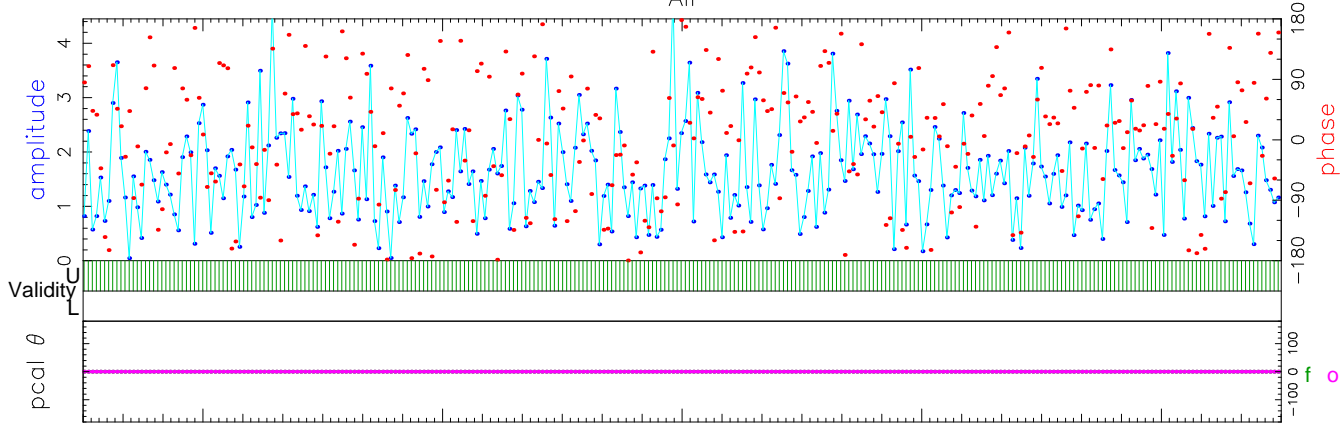
SNR 10.7
Int time 299.973
Amp 1.483
Phase 182.1
PFD 1.3e-19
Delays (us)
SBD -0.889601
MBD -0.000007
Fringe rate (Hz)
-0.038321
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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

All



86227.00
40.1
0.4
1494.3
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UR

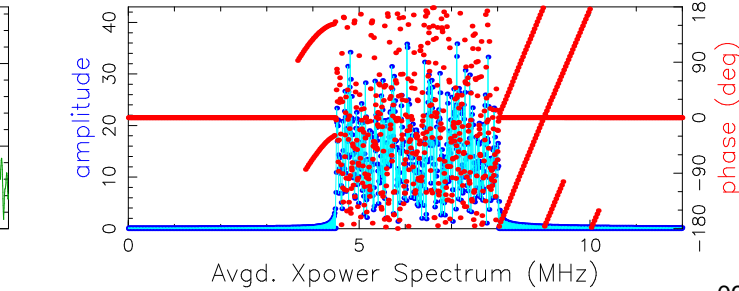
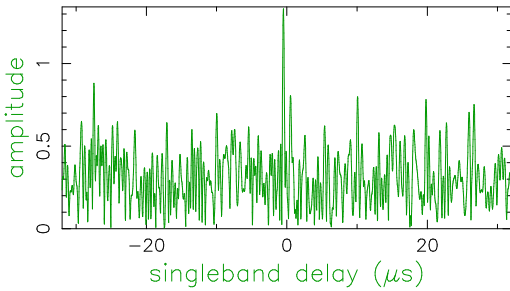
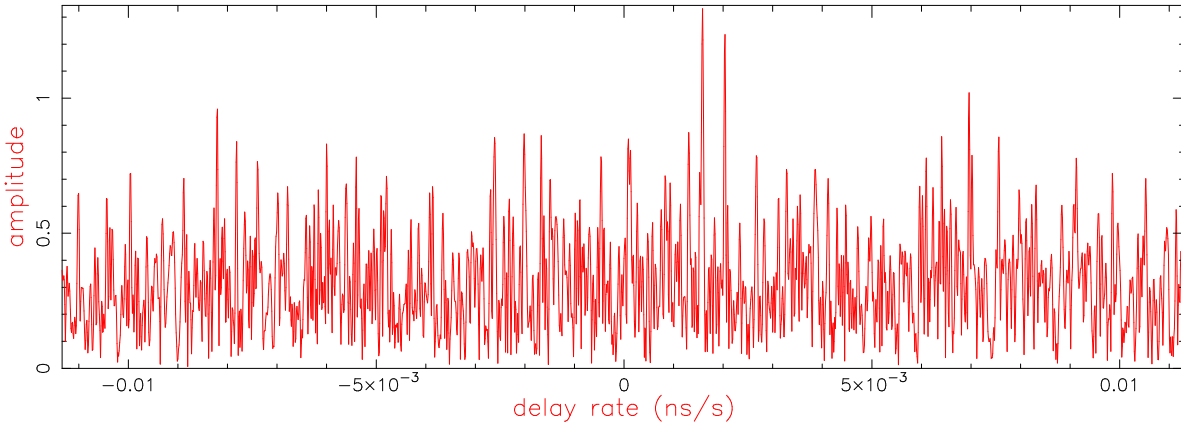
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.32405222967E+03	Apriori delay (usec)	1.32494183006E+03	Resid mbdelay (usec)	-6.65026E-06	+/-	4.3E-03
Sband delay (usec)	1.32405222873E+03	Apriori clock (usec)	6.5061131E+00	Resid sbdelay (usec)	-8.89601E-01	+/-	4.3E-03
Phase delay (usec)	1.32494183136E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	1.29223E-06	+/-	3.4E-07
Delay rate (us/s)	-2.10987527463E-01	Apriori rate (us/s)	-2.10987082594E-01	Resid rate (us/s)	-4.44869E-07	+/-	2.0E-09
Total phase (deg)	269.2	Apriori accel (us/s/s)	-1.30925607092E-05	Resid phase (deg)	182.1	+/-	10.7

ph/seg (deg)	RMS 91.2	Theor. 91.2	Amplitude Search (2048X8)	1.483 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	59.1	159.2	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	5.3	Inc. seg. avg.	0.727	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	9.3	Inc. frq. avg.	1.476	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

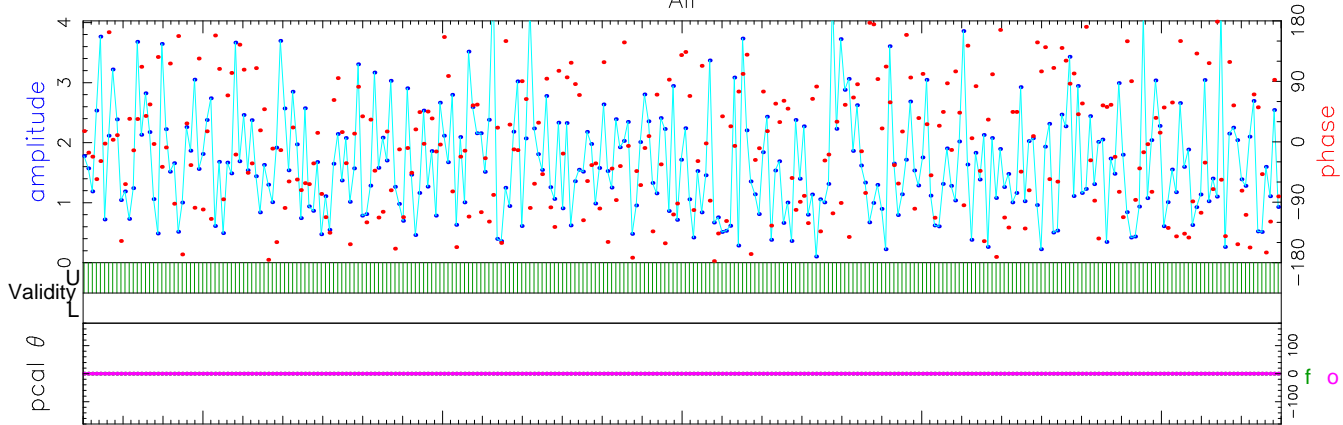
f: az 70.7 el 75.3 pa -100.1 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 1450.409 -1410.574 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fo.W.104.1T5GU7

Fringe quality 8



SNR 9.7
Int time 299.973
Amp 1.343
Phase 84.7
PFD 8.5e-15
Delays (us)
SBD -0.485936
MBD 0.000005
Fringe rate (Hz)
0.136605
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-14.9
0.4
1513.7
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UL
o W03UR

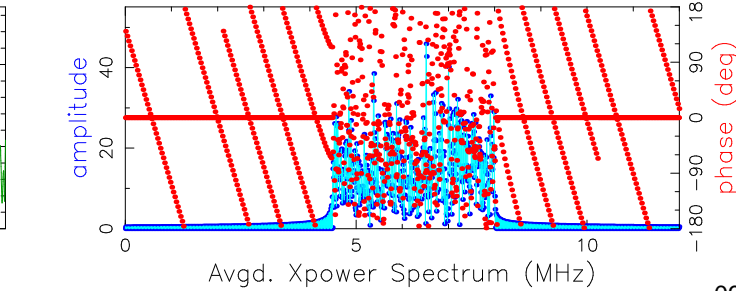
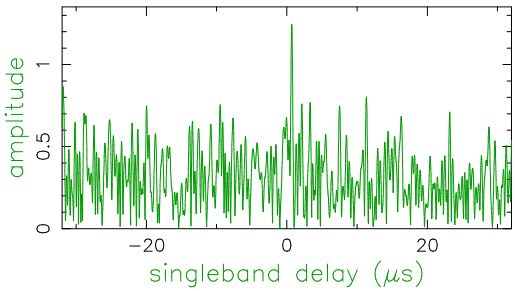
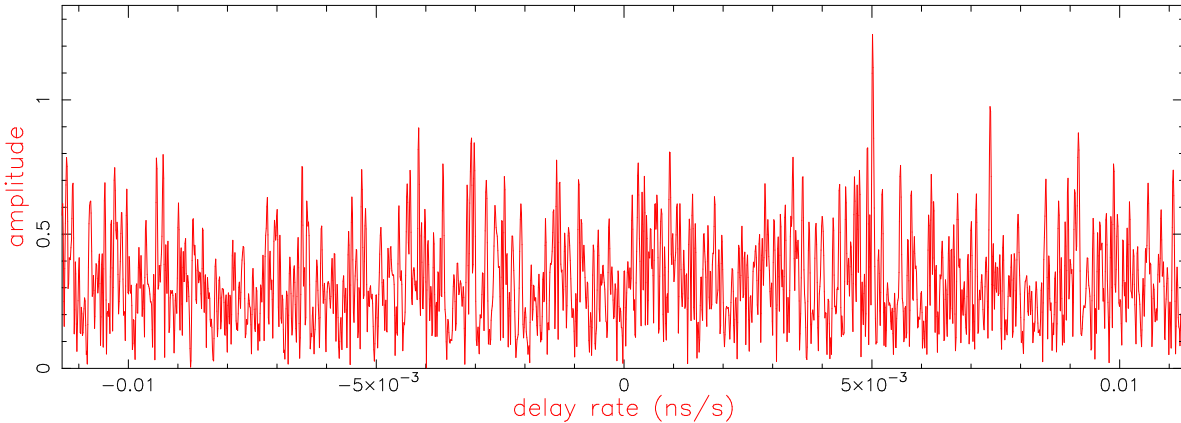
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.32445589706E+03	Apriori delay (usec)	1.32494183006E+03	Resid mbdelay (usec)	5.27232E-06	+/-	4.8E-03
Sband delay (usec)	1.32445589406E+03	Apriori clock (usec)	6.5061131E+00	Resid sbdelay (usec)	-4.85936E-01	+/-	4.8E-03
Phase delay (usec)	1.32494182958E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.79406E-07	+/-	3.8E-07
Delay rate (us/s)	-2.10985496747E-01	Apriori rate (us/s)	-2.10987082594E-01	Resid rate (us/s)	1.58585E-06	+/-	2.2E-09
Total phase (deg)	171.7	Apriori accel (us/s/s)	-1.30925607092E-05	Resid phase (deg)	84.7	+/-	11.9

ph/seg (deg)	RMS 90.7	Theor. 101.5	Amplitude Search (2048X8)	1.343 +/- 0.139	1.318	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.7	177.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.664	0.664	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.335	1.335	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

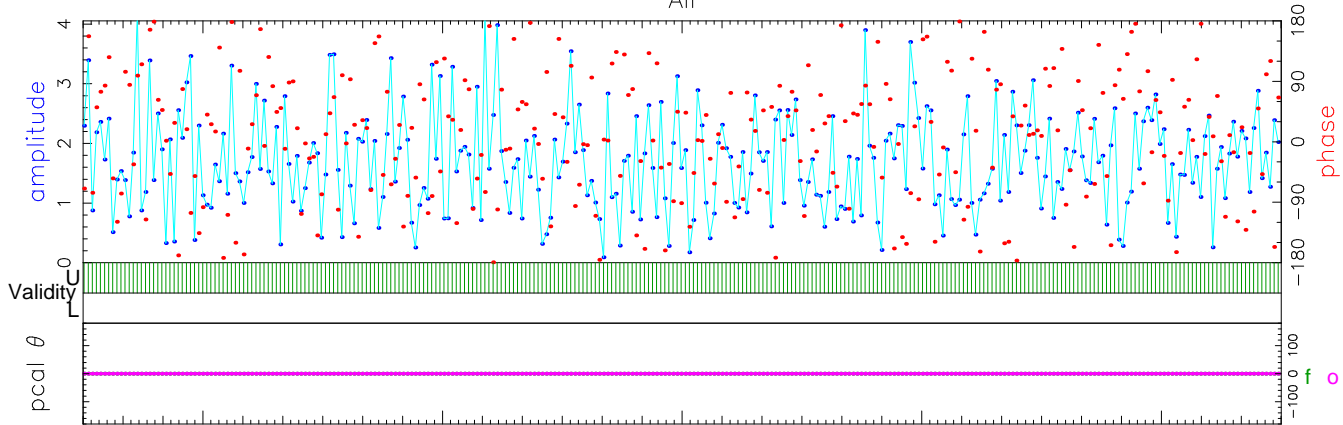
f: az 70.7 el 75.3 pa -100.1 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 1450.409 -1410.574 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fo.W.109.1T5GU7

Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.352
Phase -291.3
PFD 3.0e-12
Delays (us)
SBD 0.699875
MBD 0.000004
Fringe rate (Hz)
0.431489
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
28.7
0.4
1570.6
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UL

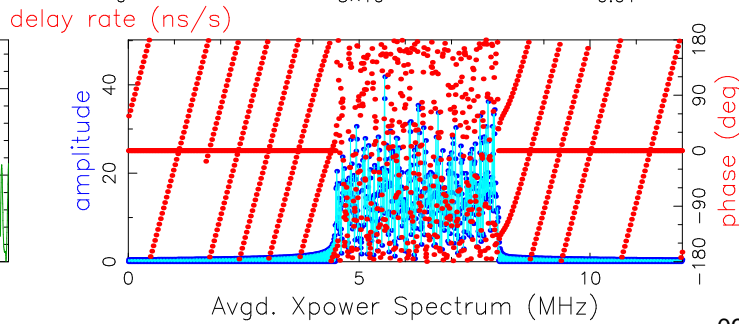
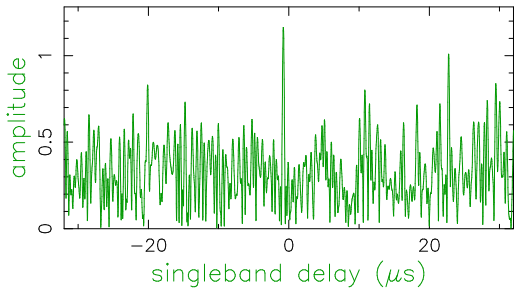
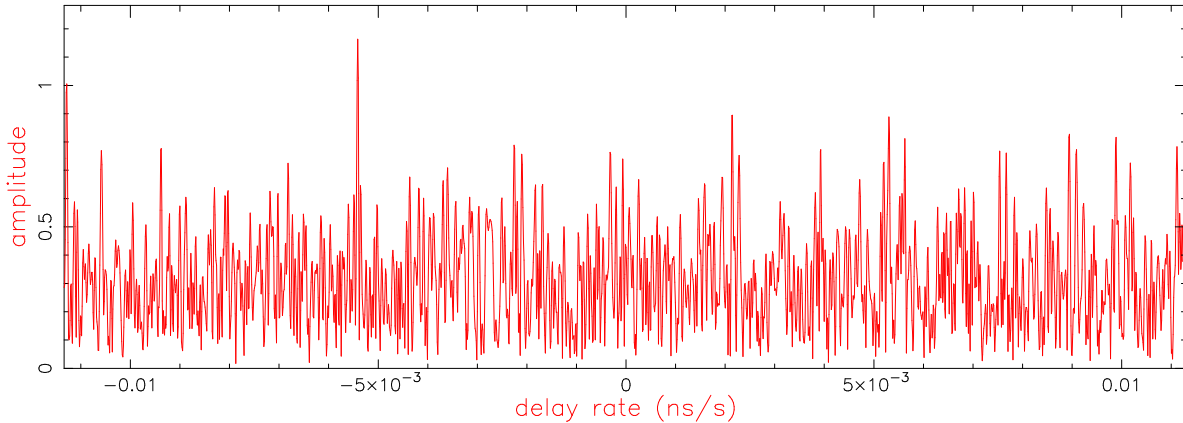
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.32564170800E+03	Apriori delay (usec)	1.32494183006E+03	Resid mbdelay (usec)	4.34977E-06	+/-	5.1E-03
Sband delay (usec)	1.32564170473E+03	Apriori clock (usec)	6.5061131E+00	Resid sbdelay (usec)	6.99875E-01	+/-	5.1E-03
Phase delay (usec)	1.32494183099E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	9.25461E-07	+/-	4.1E-07
Delay rate (us/s)	-2.10982073439E-01	Apriori rate (us/s)	-2.10987082594E-01	Resid rate (us/s)	5.00916E-06	+/-	2.4E-09
Total phase (deg)	-204.3	Apriori accel (us/s/s)	-1.30925607092E-05	Resid phase (deg)	-291.3	+/-	12.7

ph/seg (deg)	RMS 90.8	Theor. 108.6	Amplitude Search (2048X8)	1.352 +/- 0.150	1.210	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.6	189.5	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	6.3	Inc. seg. avg.	0.658	0.658	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.342	1.342	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

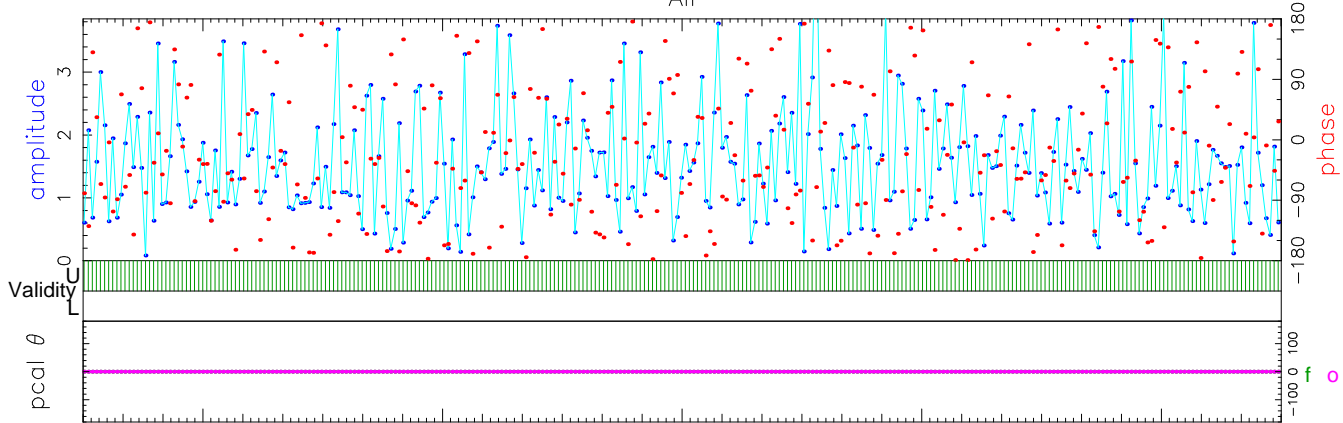
f: az 70.7 el 75.3 pa -100.1 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 1450.409 -1410.574 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fo.W.114.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.973
Amp 1.283
Phase 307.6
PFD 4.8e-10
Delays (us)
SBD -0.781889
MBD -0.000007
Fringe rate (Hz)
-0.465824
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-60.8
0.4
1499.5
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UL
o W03UL

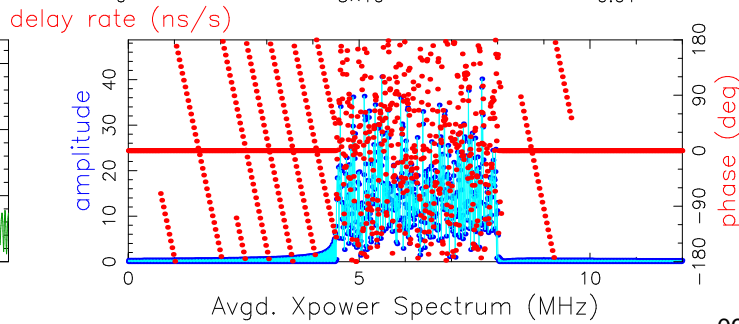
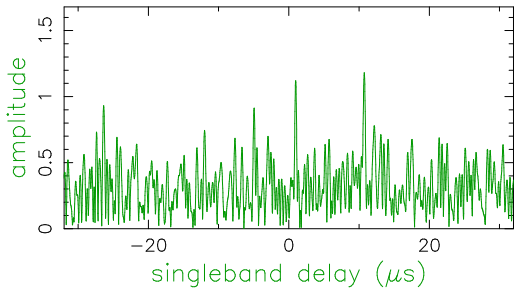
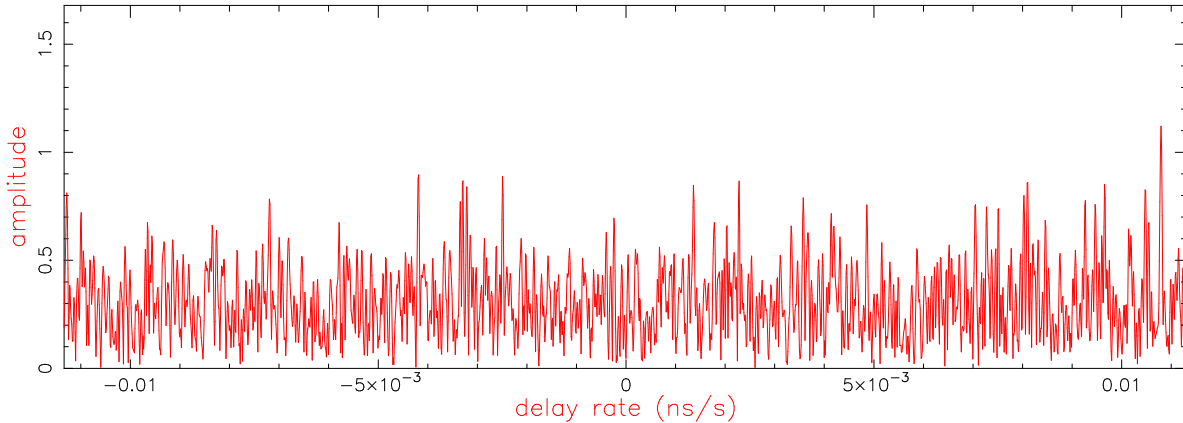
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.32415994507E+03	Apriori delay (usec)	1.32494183006E+03	Resid mbdelay (usec)	-6.93073E-06	+/- 5.4E-03
Sband delay (usec)	1.32415994073E+03	Apriori clock (usec)	6.5061131E+00	Resid sbdelay (usec)	-7.81889E-01	+/- 5.4E-03
Phase delay (usec)	1.32494182810E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-1.96056E-06	+/- 4.4E-07
Delay rate (us/s)	-2.10992490353E-01	Apriori rate (us/s)	-2.10987082594E-01	Resid rate (us/s)	-5.40776E-06	+/- 2.5E-09
Total phase (deg)	34.6	Apriori accel (us/s/s)	-1.30925607092E-05	Resid phase (deg)	307.6	+/- 13.6

ph/seg (deg)	RMS 93.8	Theor. 116.0	Amplitude 1.283 +/- 0.152	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.5	202.5	Search (2048X8) 1.138	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.8	Inc. seg. avg. 0.561	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.271	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

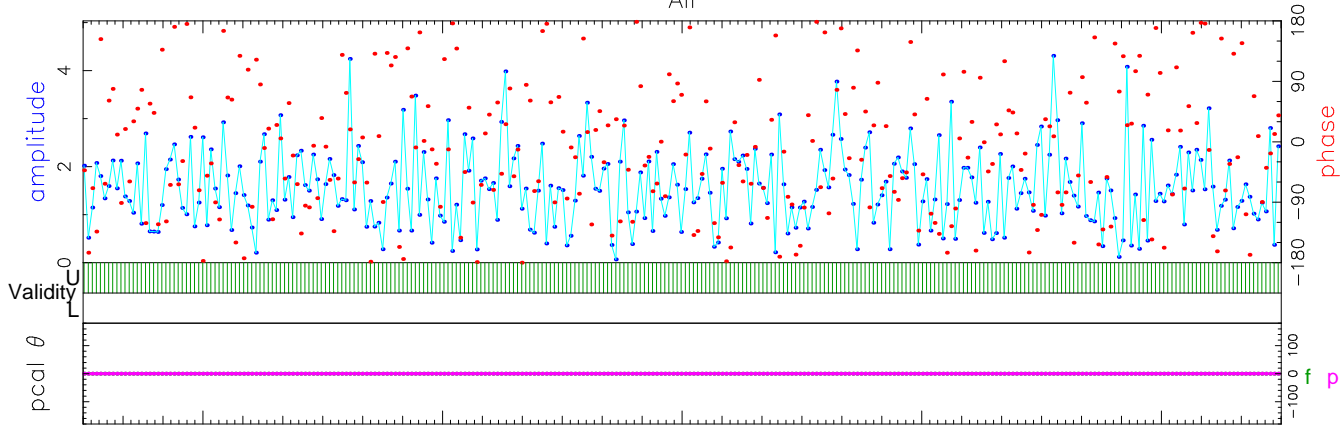
f: az 70.7 el 75.3 pa -100.1 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 1450.409 -1410.574 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fo.W.93.1T5GU7

Fringe quality 8



SNR 8.1
Int time 299.973
Amp 1.680
Phase -16.2
PFD 7.3e-09
Delays (us)
SBD 0.976748
MBD 0.000006
Fringe rate (Hz) 0.929174
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-24.4
0.5
2052.6
U/L 586/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UL
p W03UR

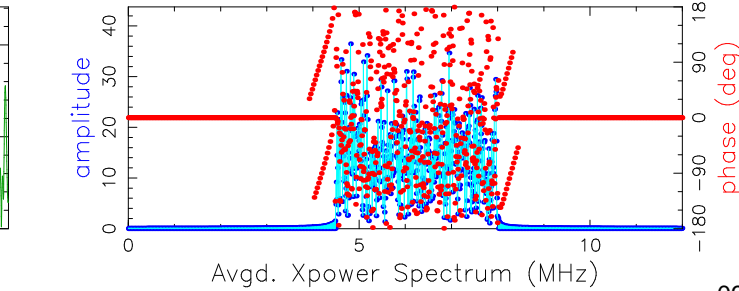
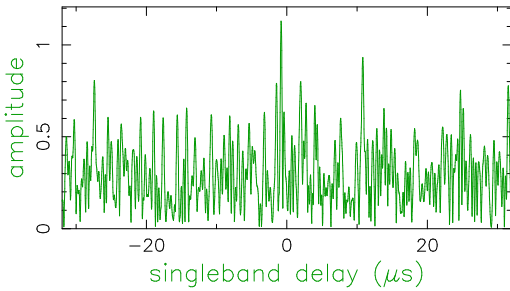
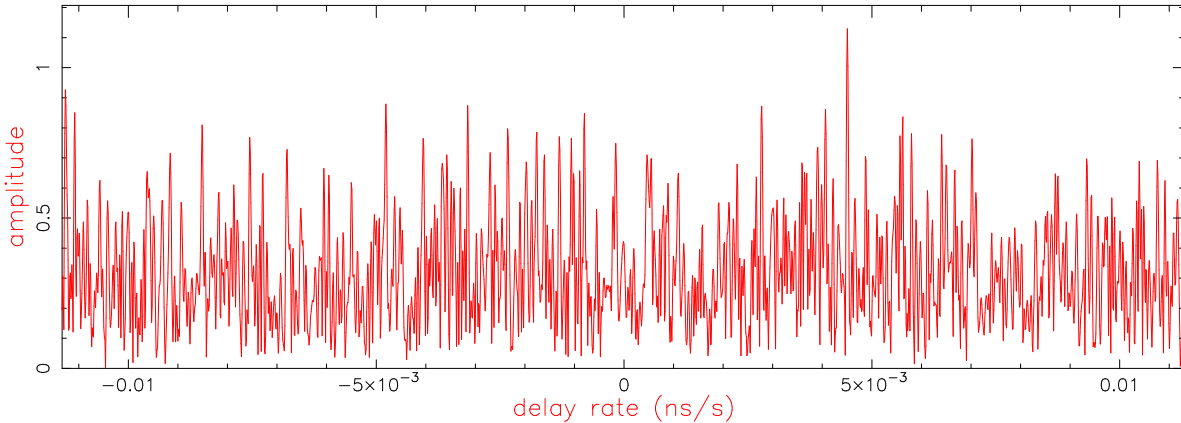
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.64448926677E+02	Apriori delay (usec)	2.63472173310E+02	Resid mbdelay (usec)	5.94459E-06	+/-	5.7E-03
Sband delay (usec)	2.64448921310E+02	Apriori clock (usec)	4.7301121E+00	Resid sbdelay (usec)	9.76748E-01	+/-	5.7E-03
Phase delay (usec)	2.63472172522E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-7.87867E-07	+/-	4.5E-07
Delay rate (us/s)	-6.10877357272E-02	Apriori rate (us/s)	-6.10985225158E-02	Resid rate (us/s)	1.07868E-05	+/-	2.6E-09
Total phase (deg)	-13.0	Apriori accel (us/s/s)	-4.81898441020E-06	Resid phase (deg)	-16.2	+/-	14.1

ph/seg (deg)	RMS 93.9	Theor. 120.7	Amplitude Search (2048X8)	1.680 +/- 0.207	1.108	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.5	210.7	Interp.	0.000	1.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.732	1.108	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.667	1.108	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 70.7 el 75.3 pa -100.1 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 419.085 -656.588 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fp.W.103.1T5GU7

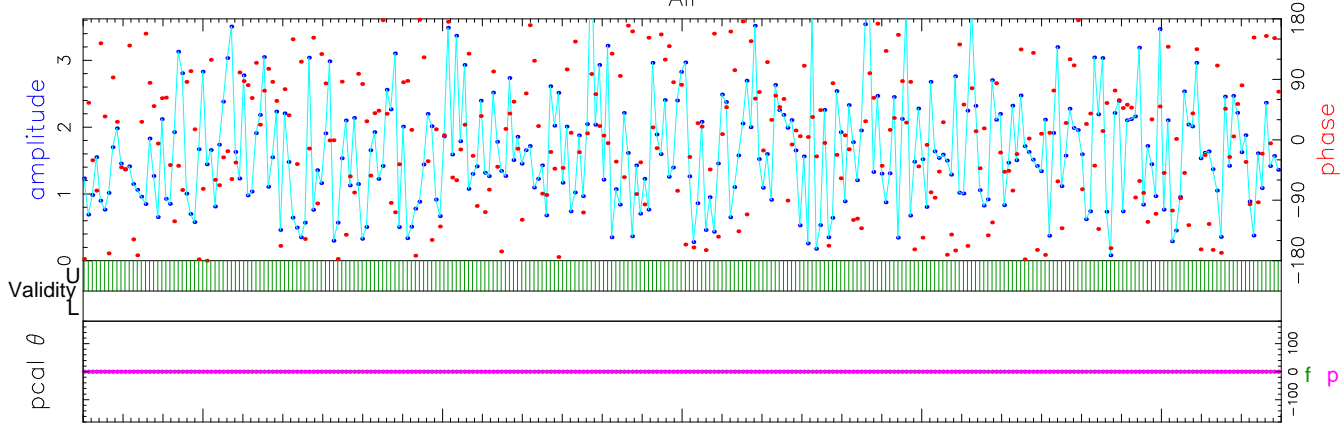
Fringe quality 8



SNR 8.2
Int time 299.973
Amp 1.207
Phase 64.7
PFD 4.1e-09
Delays (us)
SBD -0.806083
MBD 0.000004
Fringe rate (Hz)
0.388010
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
18.2
0.4
1498.3
U/L 586/0
f 0
p 0
f:p 0:0
f:p 0:0
f 1000
p 1000
f W03UR
p W03UL

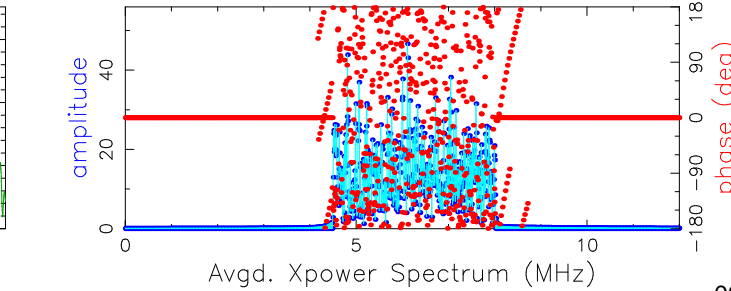
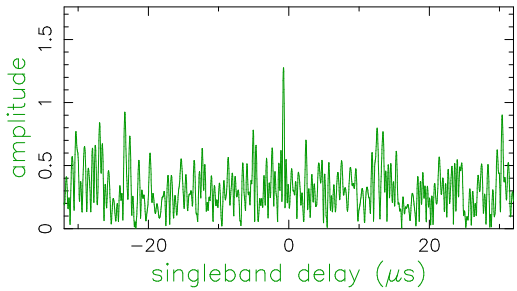
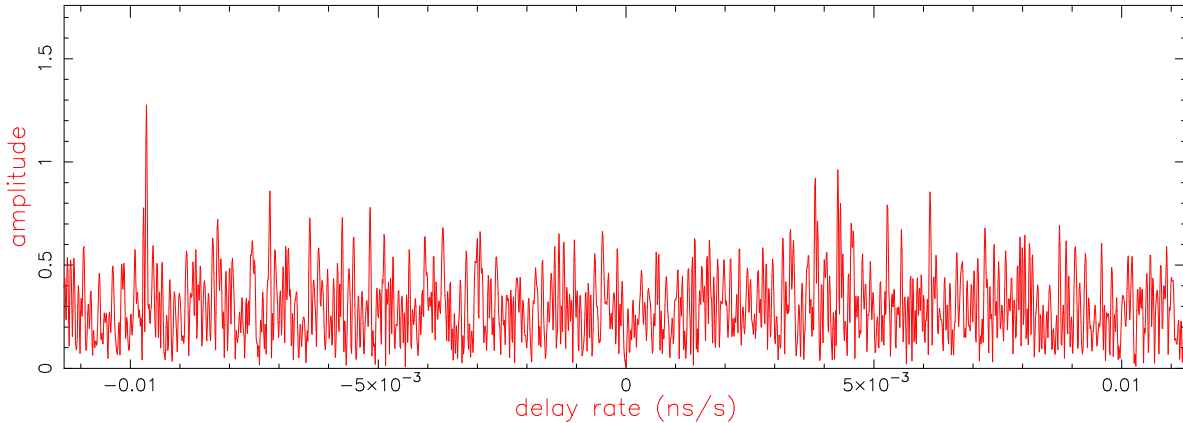
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.62666096116E+02	Apriori delay (usec)	2.63472173310E+02	Resid mbdelay (usec)	4.42780E-06	+/-	5.6E-03
Sband delay (usec)	2.62666090643E+02	Apriori clock (usec)	4.7301121E+00	Resid sbdelay (usec)	-8.06083E-01	+/-	5.6E-03
Phase delay (usec)	2.63472173898E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	5.88279E-07	+/-	4.5E-07
Delay rate (us/s)	-6.10940181059E-02	Apriori rate (us/s)	-6.10985225158E-02	Resid rate (us/s)	4.50441E-06	+/-	2.6E-09
Total phase (deg)	67.9	Apriori accel (us/s/s)	-4.81898441020E-06	Resid phase (deg)	64.7	+/-	14.0

ph/seg (deg)	RMS 95.7	Theor. 119.6	Amplitude Search (2048X8)	1.207 +/- 0.147	1.118	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.6	208.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.550	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.197	Sample rate(MSamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				f, v (fr/asec) 419.085 -656.588	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

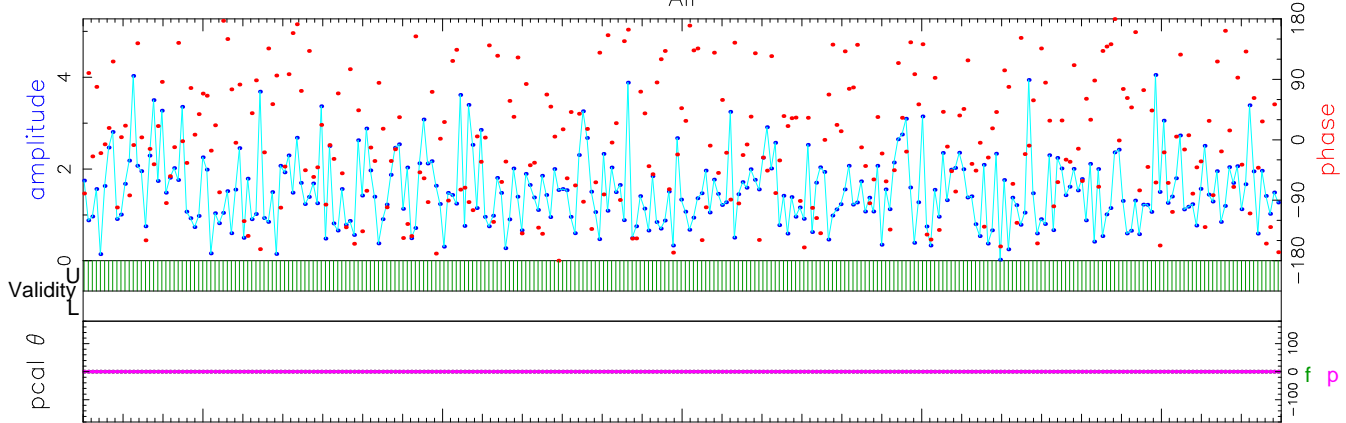
f: az 70.7 el 75.3 pa -100.1 p: az 83.6 el 72.6 pa -84.9 u, v (fr/asec) 419.085 -656.588 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fp.W.116.1T5GU7

Fringe quality 8



SNR 9.3
Int time 299.973
Amp 1.759
Phase 338.2
PFD 3.5e-13
Delays (us)
SBD -0.758261
MBD -0.000007
Fringe rate (Hz)
-0.832496
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051937
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-10.3
0.5
1500.6
U/L 586/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UL
p W03UL

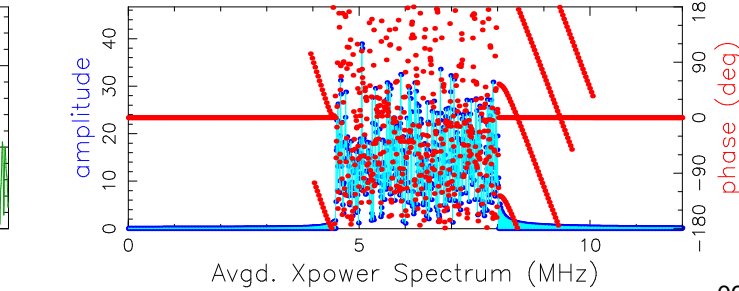
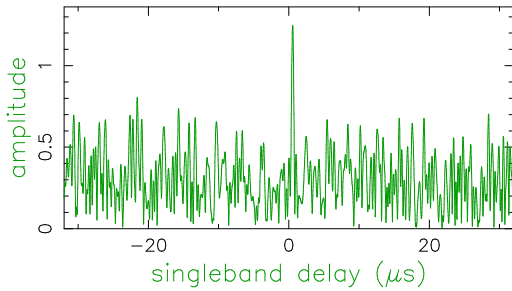
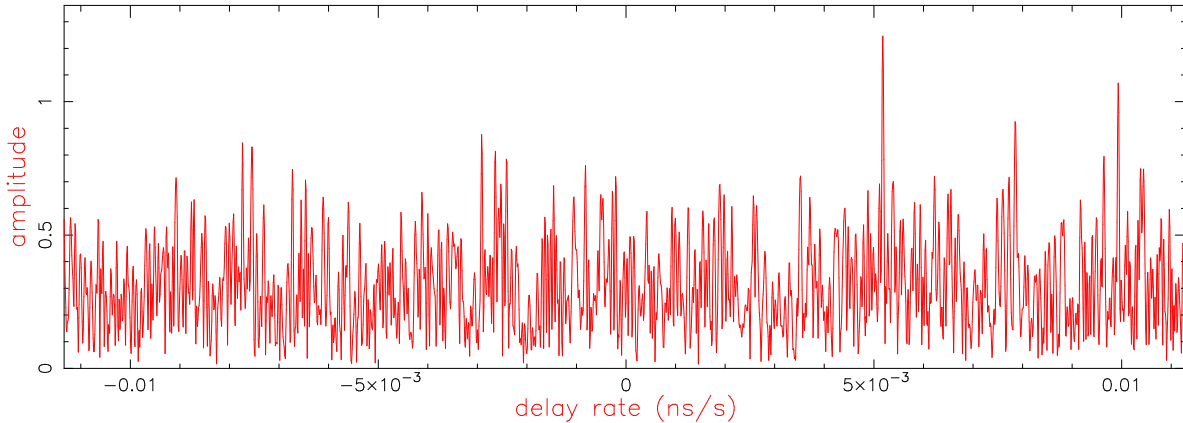
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.62713912079E+02	Apriori delay (usec)	2.63472173310E+02	Resid mbdelay (usec)	-6.85530E-06	+/- 5.0E-03
Sband delay (usec)	2.62713911976E+02	Apriori clock (usec)	4.7301121E+00	Resid sbdelay (usec)	-7.58261E-01	+/- 5.0E-03
Phase delay (usec)	2.63472172976E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.33285E-07	+/- 4.0E-07
Delay rate (us/s)	-6.11081869654E-02	Apriori rate (us/s)	-6.10985225158E-02	Resid rate (us/s)	-9.66445E-06	+/- 2.3E-09
Total phase (deg)	341.4	Apriori accel (us/s/s)	-4.81898441020E-06	Resid phase (deg)	338.2	+/- 12.4

ph/seg (deg)	RMS 90.9	Theor. 105.8	Amplitude 1.759 +/- 0.190	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	65.2	184.7	Search (2048X8) 1.266	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	10.8	Inc. seg. avg. 0.780	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.745	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

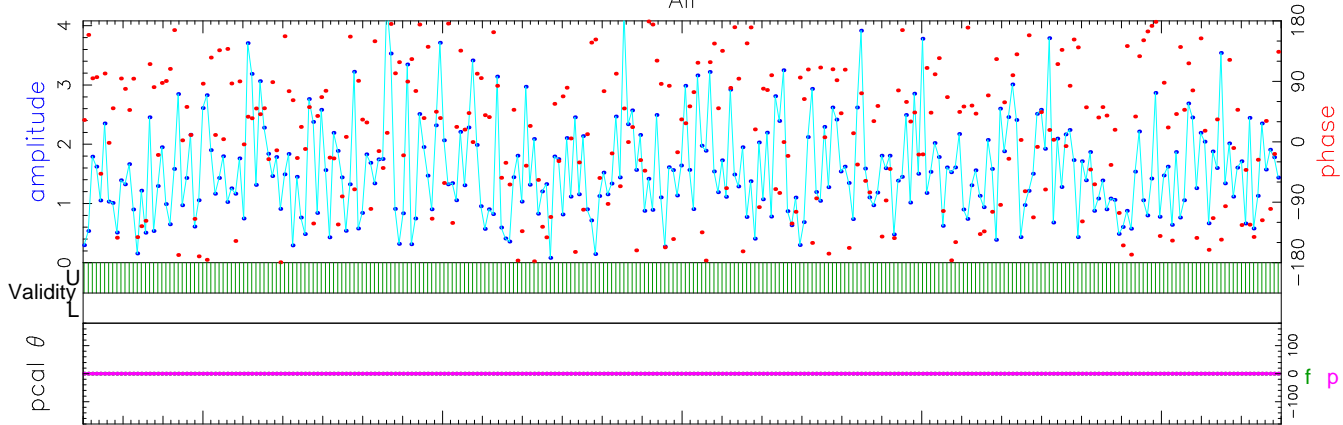
f: az 70.7 el 75.3 pa -100.1 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 419.085 -656.588 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fp.W.83.1T5GU7

Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.361
Phase -263.0
PFD 2.8e-12
Delays (us)
SBD 0.550620
MBD 0.000007
Fringe rate (Hz)
0.446110
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



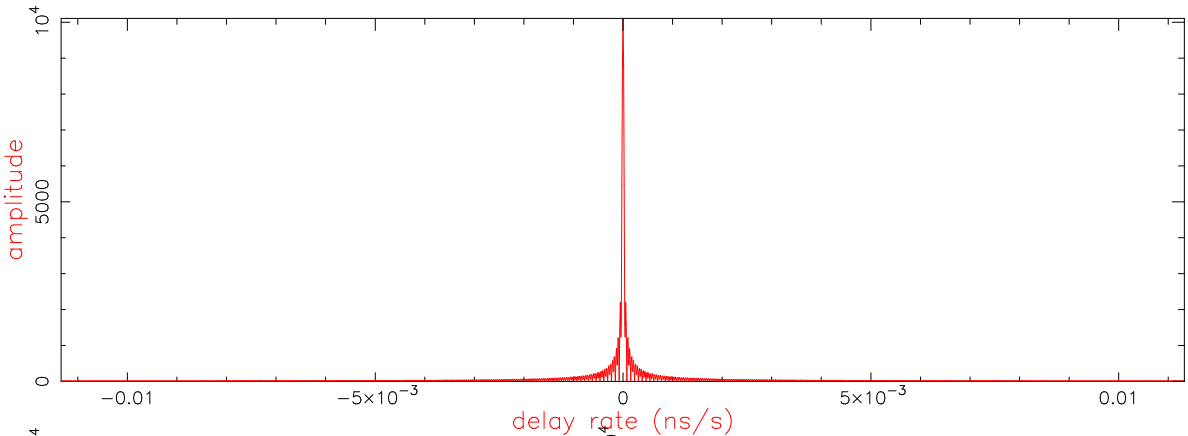
86227.00
62.3
0.4
1563.4
U/L 586/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UR
p W03UR

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)	2.64022796943E+02	Apriori delay (usec)	2.63472173310E+02	Resid mbdelay (usec)	7.23660E-06	+/-	5.1E-03
Sband delay (usec)	2.64022793310E+02	Apriori clock (usec)	4.7301121E+00	Resid sbdelay (usec)	5.50620E-01	+/-	5.1E-03
Phase delay (usec)	2.63472175318E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.00841E-06	+/-	4.1E-07
Delay rate (us/s)	-6.10933436249E-02	Apriori rate (us/s)	-6.10985225158E-02	Resid rate (us/s)	5.17889E-06	+/-	2.4E-09
Total phase (deg)	-259.8	Apriori accel (us/s/s)	-4.81898441020E-06	Resid phase (deg)	-263.0	+/-	12.7

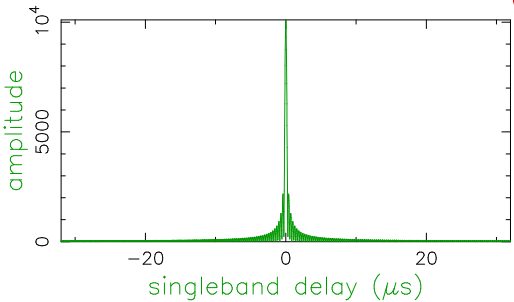
ph/seg (deg)	RMS 93.9	Theor. 108.4	Amplitude Search (2048X8)	1.361 +/- 0.151	1.238	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.5	189.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.618	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.351	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 70.7 el 75.3 pa -100.1 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 419.085 -656.588 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/fp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/fp.W.88.1T5GU7

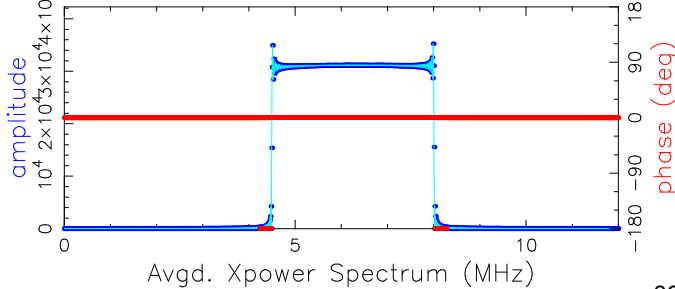


Fringe quality 5

SNR 73279.4
Int time 299.983
Amp 10106.013
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

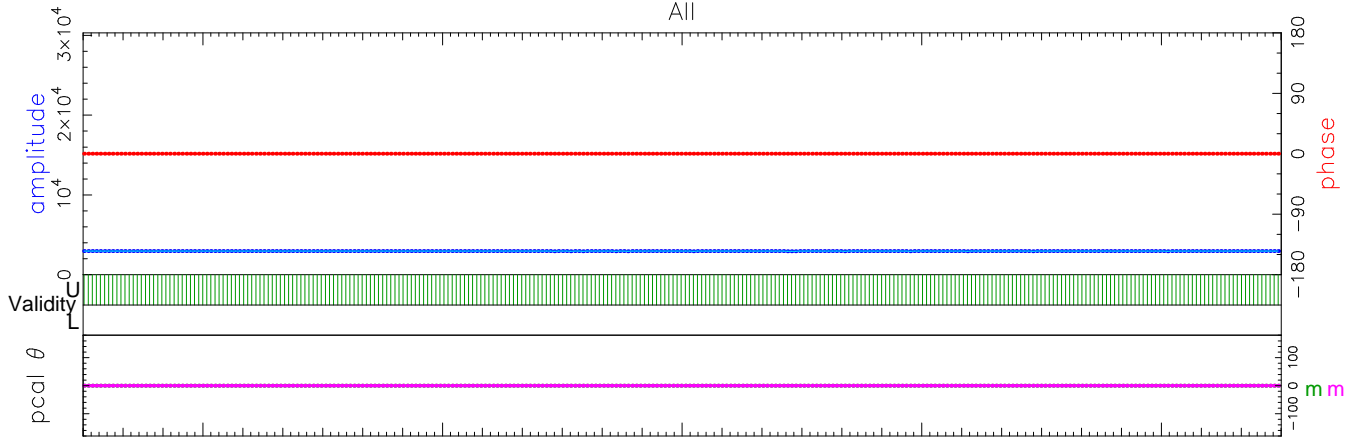


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



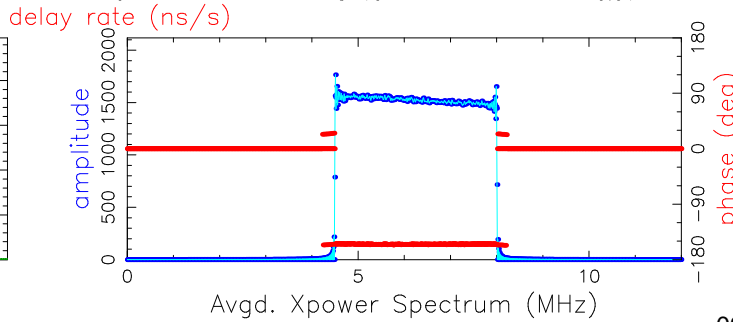
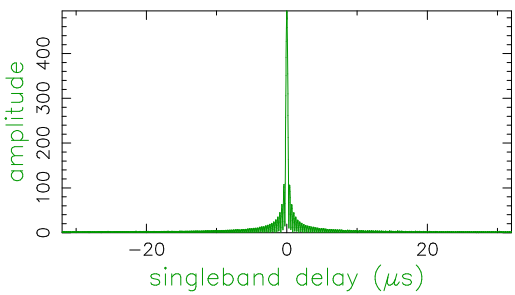
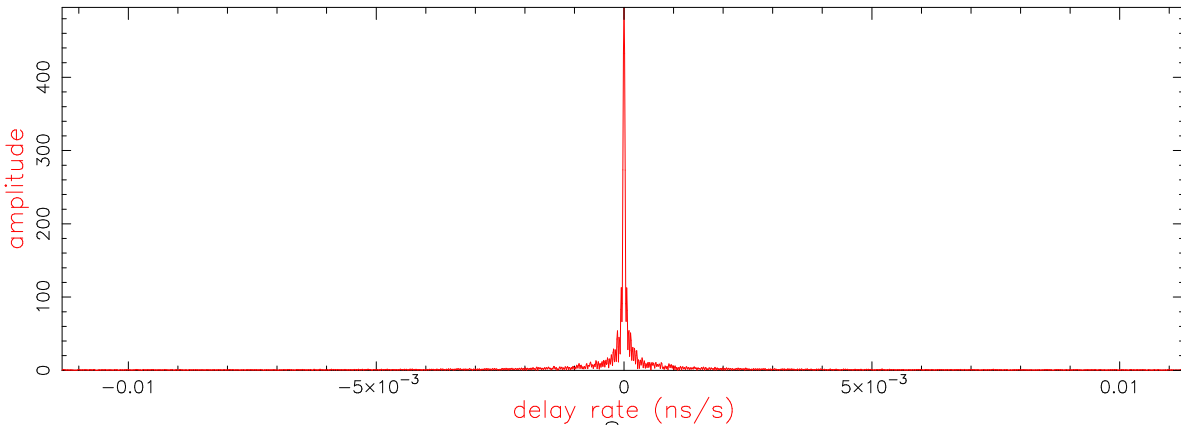
Validity
pcal θ
86227.00
0.2
2960.7
1537.0
U/L 586/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UR
m W03UR

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)	4.35181555661E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24548E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.82249402982E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82249E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

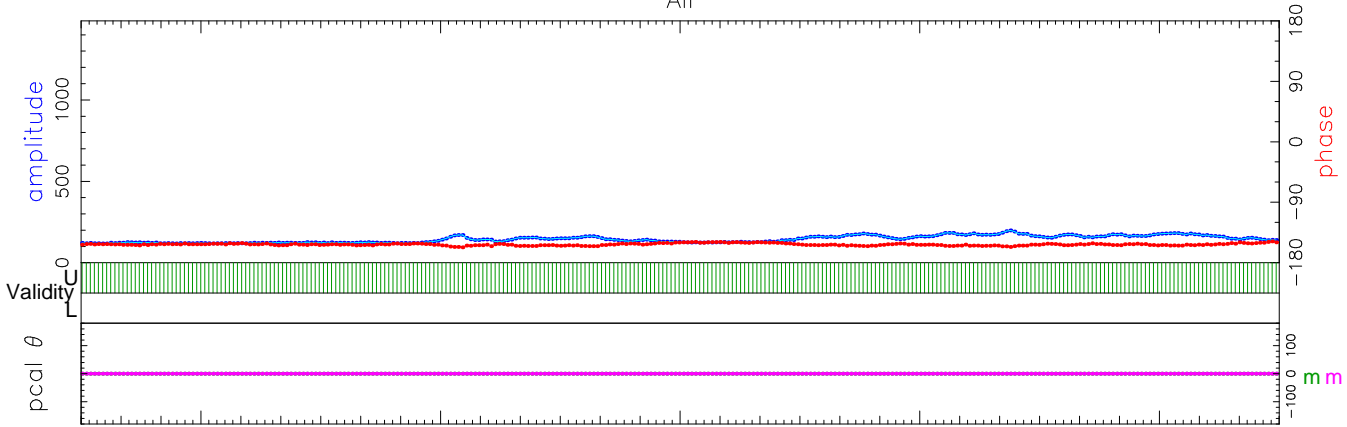
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10106.013 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	10106.013	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2960.746	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10106.014	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

m: az 60.8 el 28.5 pa -84.9 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mm.W.115.1T5GU7



Fringe quality 5
SNR 3592.4
Int time 299.983
Amp 495.435
Phase -181.2
PFD 0.0e+00
Delays (us)
SBD 0.000893
MBD -0.000007
Fringe rate (Hz)
-0.000060
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



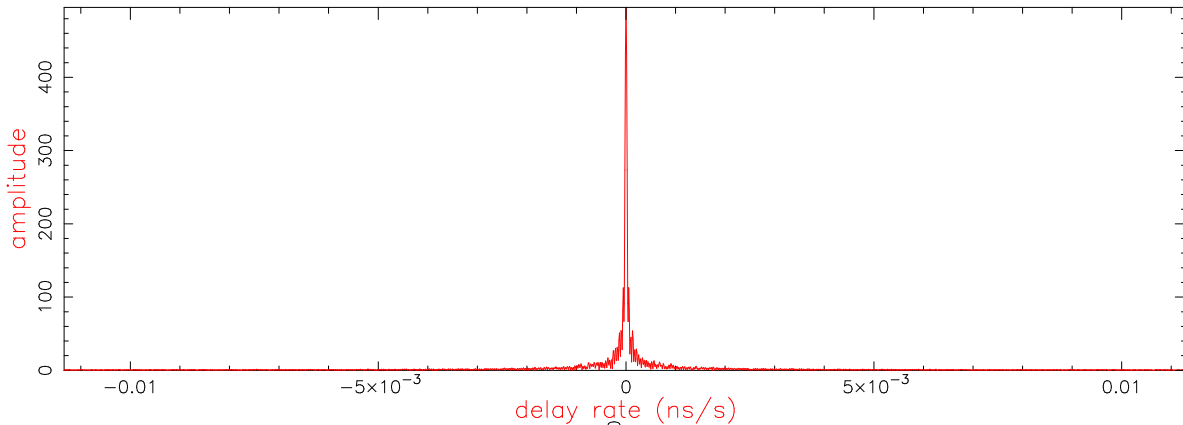
86227.00 Freq (MHz)
-152.9 Phase
145.1 Ampl.
1537.0 Sbd box
U/L 586/0 APs used
m 0 PC freqs
m 0 PC freqs
m:m 0:0 PC phase
m:m 0:0 Manl PC
m 1000 PC amp
m 1000
m W03UL Chan ids
m W03UR Chan ids

Group delay (usec)(sbd)	8.97633455878E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.95559E-06	+/-	1.3E-05
Sband delay (usec)	8.93333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	8.93333E-04	+/-	1.3E-05
Phase delay (usec)	-4.92963105840E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.92963E-06	+/-	1.0E-09
Delay rate (us/s)	-6.90843679095E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-6.90844E-10	+/-	5.9E-12
Total phase (deg)	-181.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-181.2	+/-	0.0

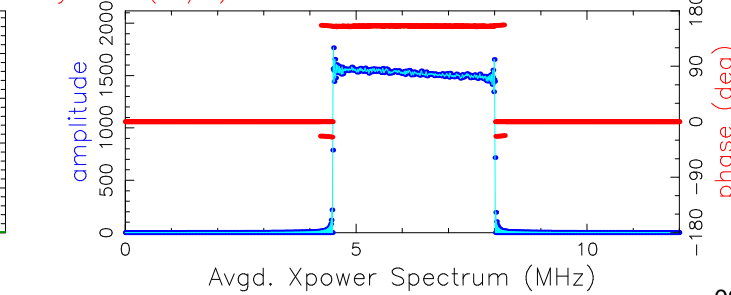
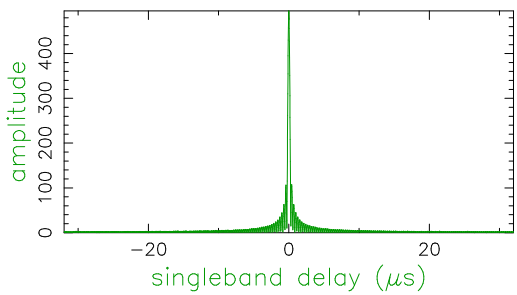
ph/seg (deg)	RMS	Theor.	Amplitude	495.435 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	1.6	0.3	Search (2048X8)	495.173	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	70.8	0.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	0.0	0.0	Inc. seg. avg.	145.200	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
	70.7	0.0	Inc. frq. avg.	495.427	Data rate(Mb/s):	48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

m: az 60.8 el 28.5 pa -84.9 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mm.W.123.1T5GU7

Fringe quality 5

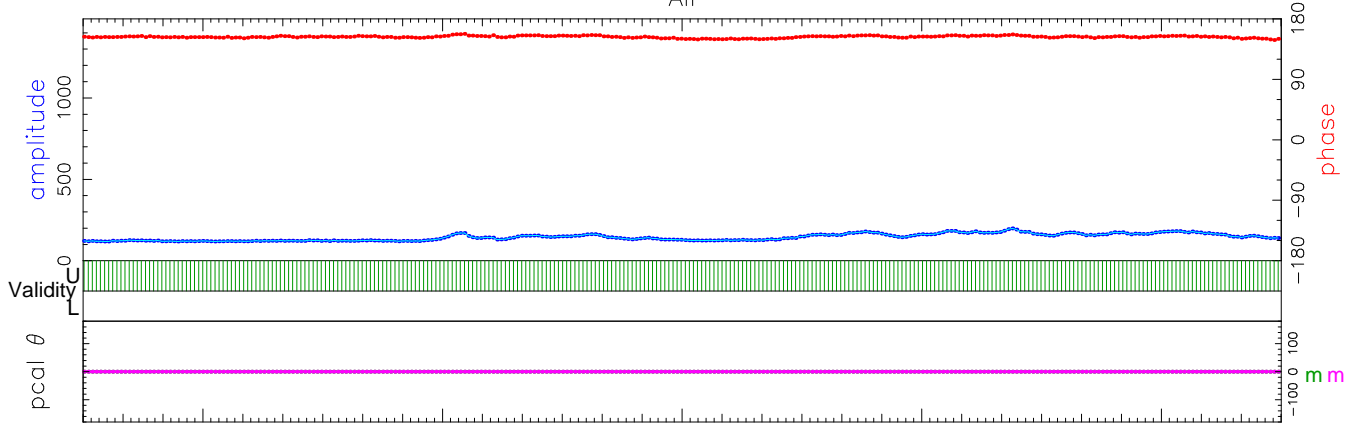


SNR 3592.4
Int time 299.983
Amp 495.435
Phase 181.2
PFD 0.0e+00
Delays (us)
SBD -0.000893
MBD -0.000005
Fringe rate (Hz)
0.000060
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



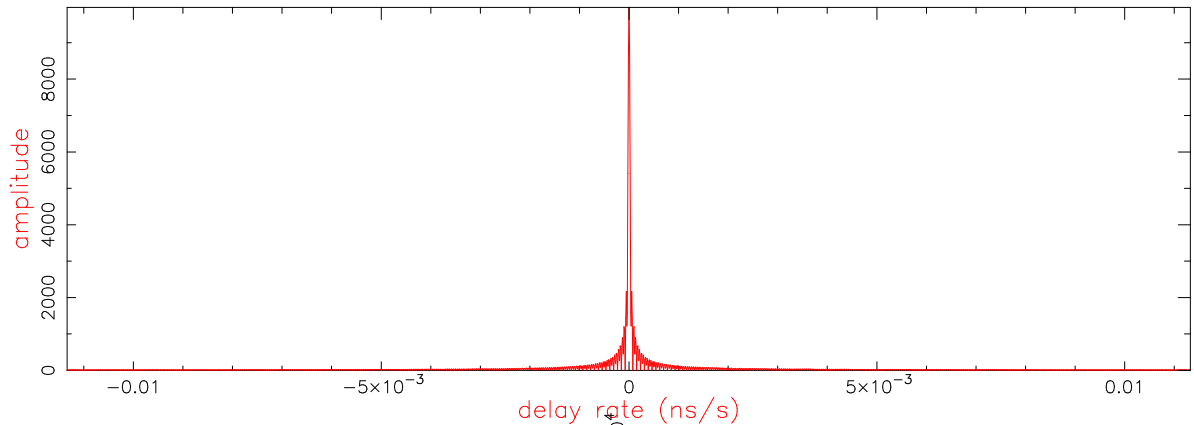
86227.00
153.3
145.1
1537.0
U/L 586/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UR
m
m W03UL

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)	-8.98036577870E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.04482E-06	+/-	1.3E-05
Sband delay (usec)	-8.93333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-8.93333E-04	+/-	1.3E-05
Phase delay (usec)	4.94258716268E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.94259E-06	+/-	1.0E-09
Delay rate (us/s)	6.90843679095E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	6.90844E-10	+/-	5.9E-12
Total phase (deg)	181.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	181.2	+/-	0.0

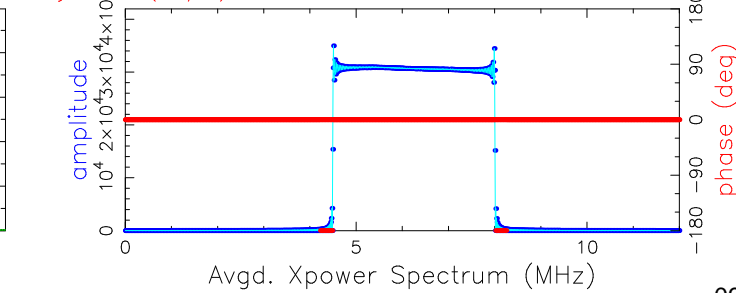
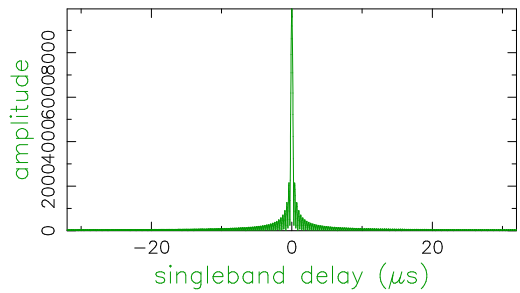
ph/seg (deg)	RMS 1.6	Theor. 0.3	Amplitude 495.435 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.8	0.5	Search (2048X8) 495.173	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	Inc. seg. avg. 145.200	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 495.427	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

m: az 60.8 el 28.5 pa -84.9 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mm.W.128.1T5GU7



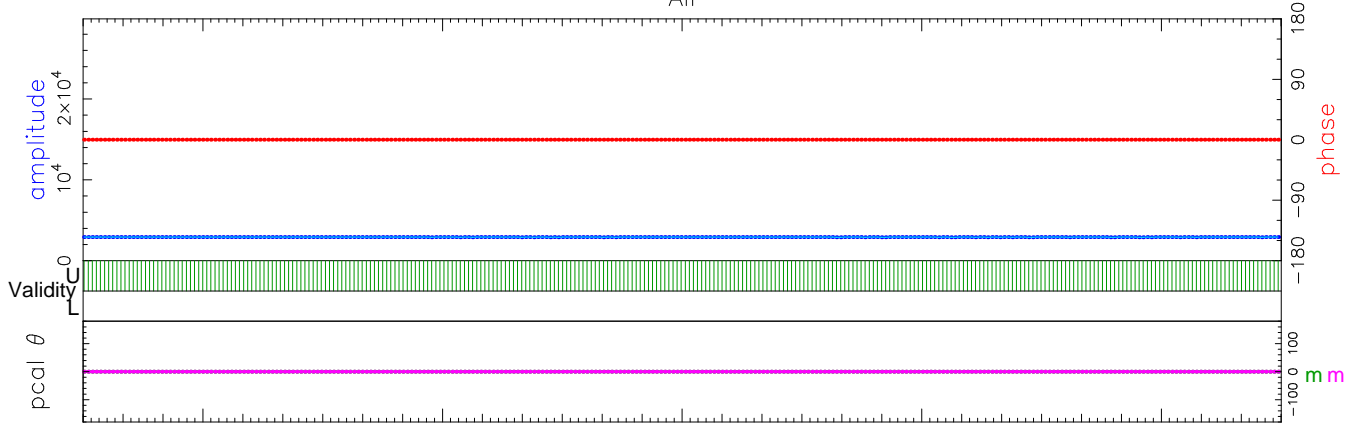
Fringe quality 5

SNR 72298.9
Int time 299.983
Amp 9970.793
Phase 0.2
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
0.2
2921.1
1537.0
U/L 586/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UL
m W03UL

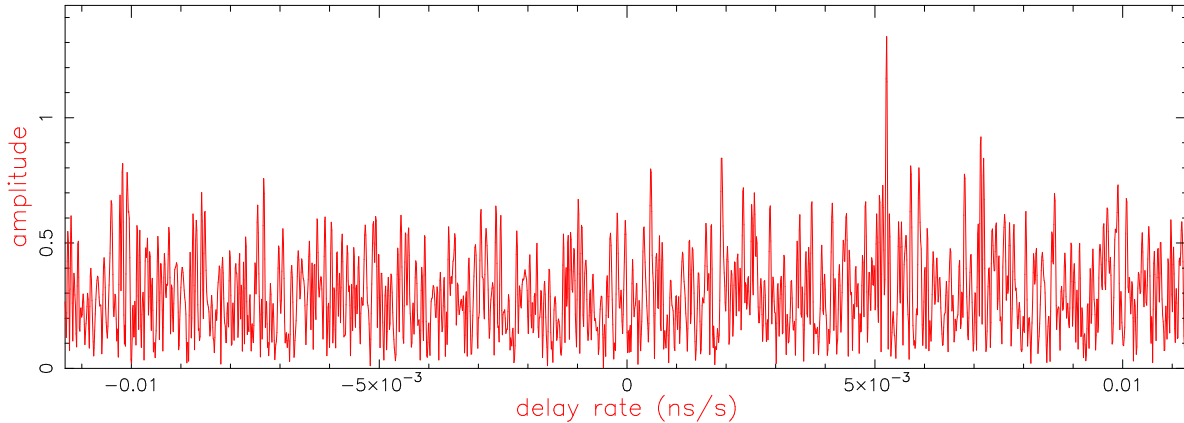
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.28836675287E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.28837E-06	+/-	6.4E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	5.70952064102E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.70952E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

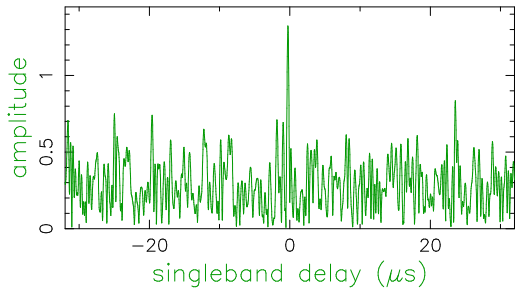
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9970.793 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9970.793	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2921.130	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9970.793	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

m: az 60.8 el 28.5 pa -84.9 m: az 60.8 el 28.5 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mm..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mm.W.99.1T5GU7

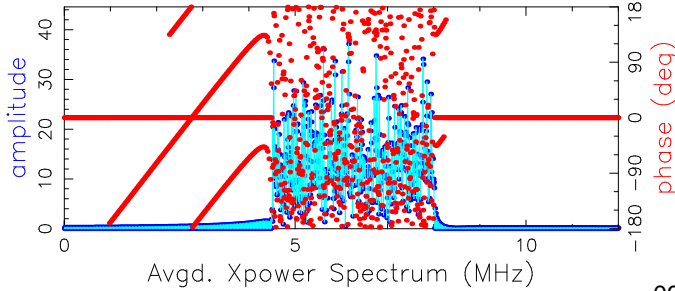
Fringe quality 8



SNR 9.6
Int time 299.972
Amp 1.448
Phase 102.5
PFD 1.5e-14
Delays (us)
SBD -0.267492
MBD 0.000007
Fringe rate (Hz)
0.450903
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

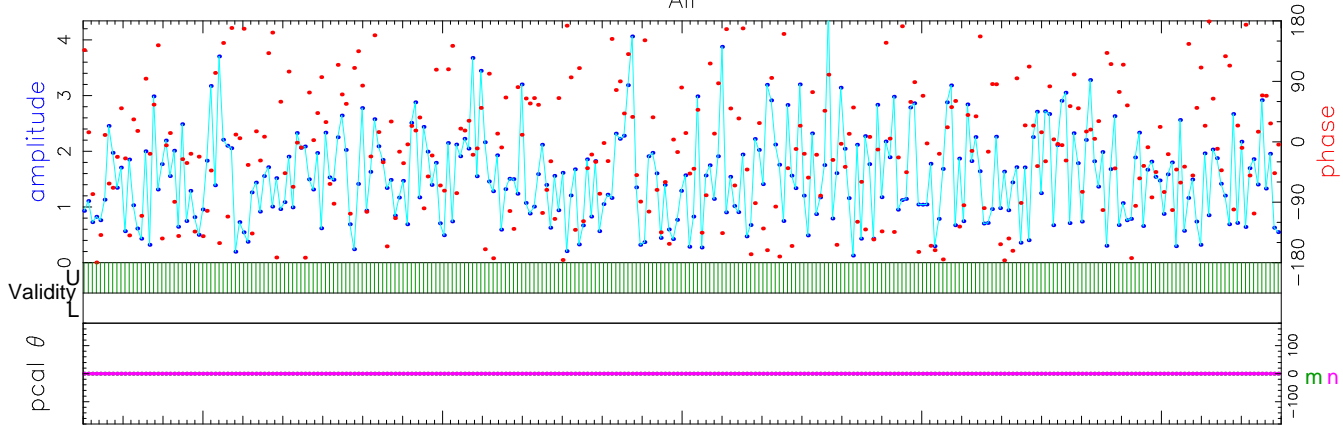


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
4.3
0.4
1524.2
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UR

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)	-1.07076613249E+04	Apriori delay (usec)	-1.07073938287E+04	Resid mbdelay (usec)	7.01743E-06	+/-	4.8E-03
Sband delay (usec)	-1.07076613207E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-2.67492E-01	+/-	4.8E-03
Phase delay (usec)	-1.07073938285E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.38194E-07	+/-	3.8E-07
Delay rate (us/s)	1.05185530363E+00	Apriori rate (us/s)	1.05185006909E+00	Resid rate (us/s)	5.23454E-06	+/-	2.2E-09
Total phase (deg)	318.1	Apriori accel (us/s/s)	3.61527876321E-05	Resid phase (deg)	102.5	+/-	11.9

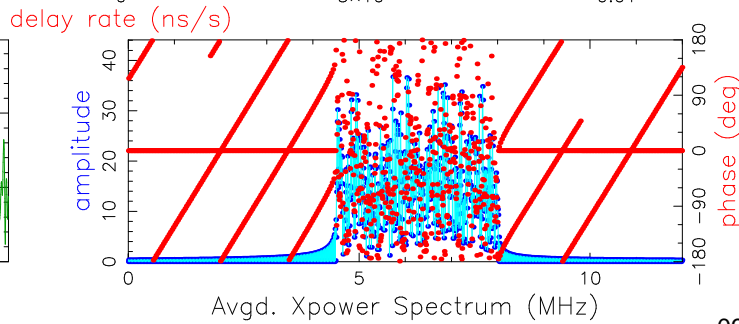
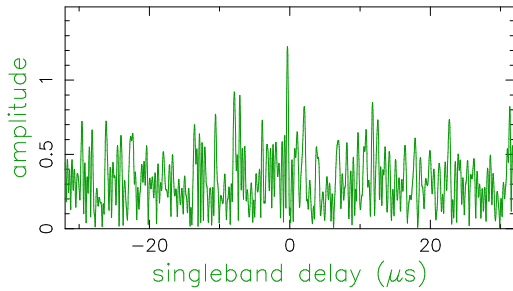
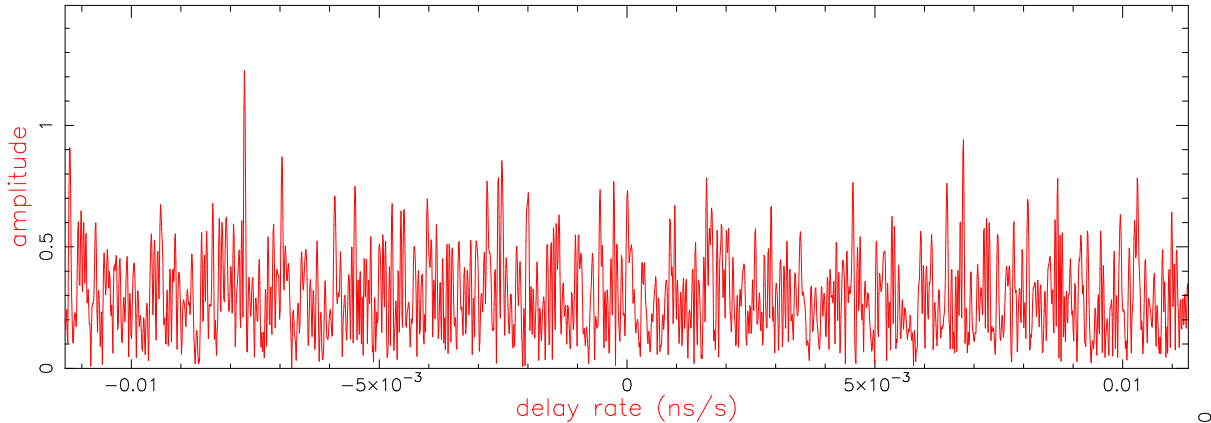
ph/seg (deg)	RMS 91.3	Theor. 102.1	Amplitude Search (2048X8)	1.448 +/- 0.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	64.4	178.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.653	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.4	Inc. frq. avg.	1.440	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011	
				m: az 60.8 el 28.5 pa -84.9	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	
				n: az 152.7 el 81.8 pa -23.5	nlags: 1536 t_cohere infinite	simultaneous interpolator	

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mn.W.106.1T5GU7

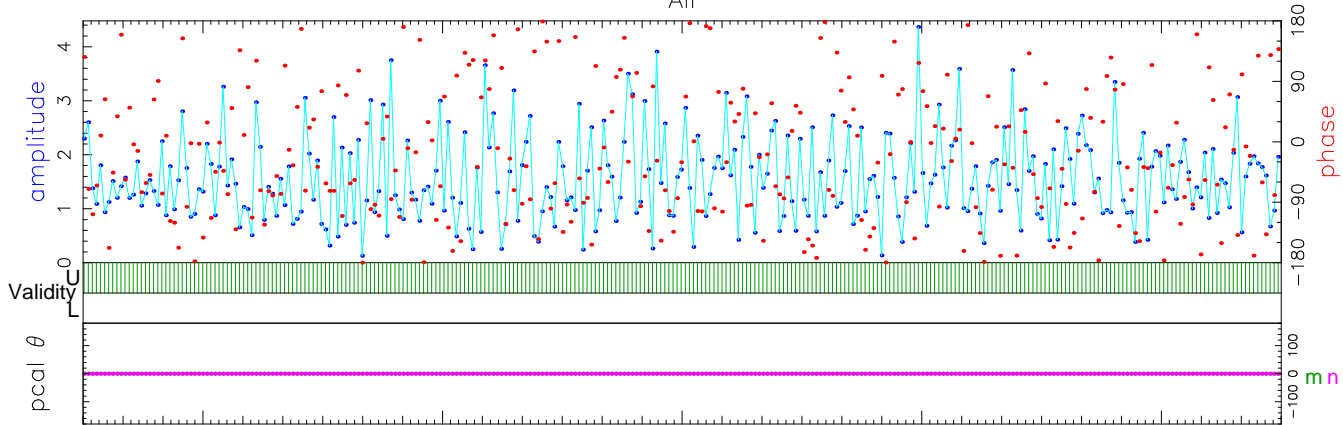
Fringe quality 8

SNR 8.9
Int time 299.972
Amp 1.494
Phase 88.5
PFD 1.1e-11
Delays (us)
SBD -0.338069
MBD -0.000007
Fringe rate (Hz)
-0.663613
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-59.5
0.4
1520.8
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UR

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

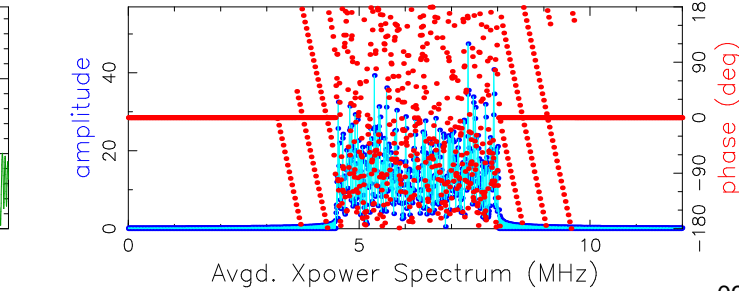
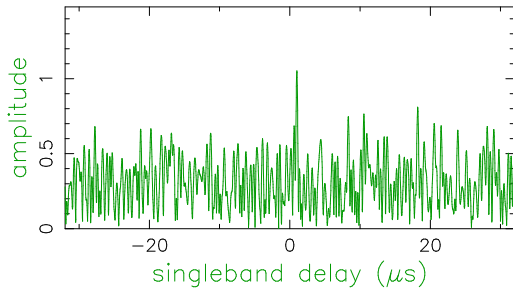
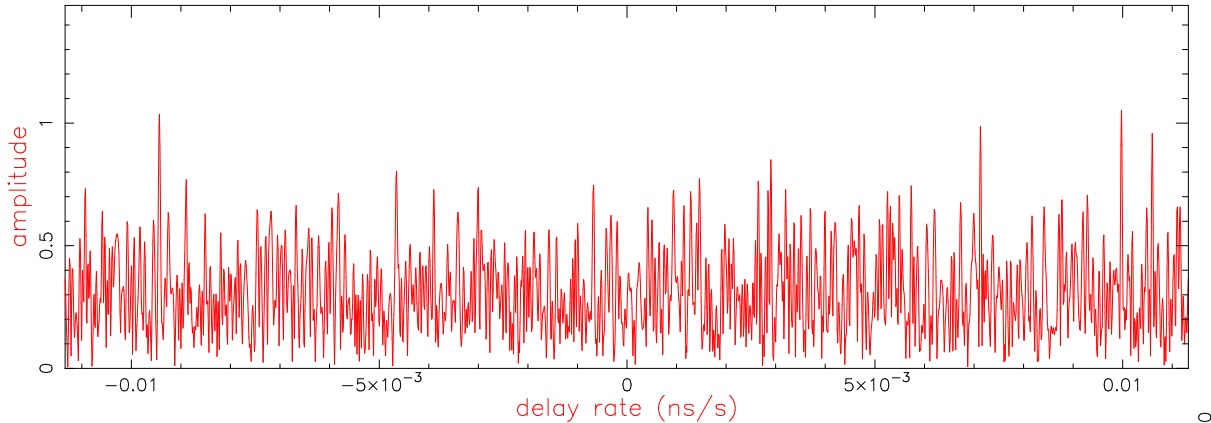
Group delay (usec)(sbd)	-1.07077318966E+04	Apriori delay (usec)	-1.07073938287E+04	Resid mbdelay (usec)	-6.73617E-06	+/- 5.2E-03
Sband delay (usec)	-1.07077318980E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-3.38069E-01	+/- 5.2E-03
Phase delay (usec)	-1.07073938306E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.91987E-06	+/- 4.2E-07
Delay rate (us/s)	1.05184236521E+00	Apriori rate (us/s)	1.05185006909E+00	Resid rate (us/s)	-7.70388E-06	+/- 2.4E-09
Total phase (deg)	304.1	Apriori accel (us/s/s)	3.61527876321E-05	Resid phase (deg)	88.5	+/- 12.9

ph/seg (deg)	RMS 94.1	Theor. 110.3	Amplitude Search (2048X8)	1.494 +/- 0.168	1.216	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	192.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.668	0.668	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.484	1.484	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			m: az 60.8 el 28.5 pa -84.9		n: az 152.7 el 81.8 pa -23.5		dr window (ns/s) -0.011 0.011
			u,v (fr/asec) -7256.668 -399.249				ion window (TEC) 0.00 0.00

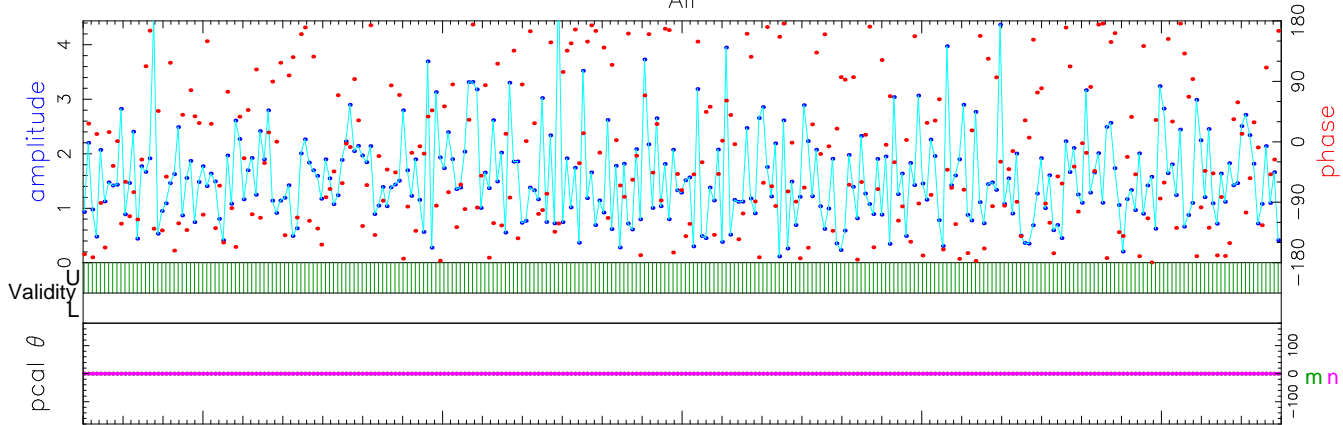
Fringe quality 8

SNR 7.6
Int time 299.972
Amp 1.480
Phase -105.0
PFD 3.6e-07
Delays (us)
SBD 1.000000
MBD 0.000004
Fringe rate (Hz)
0.858462
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



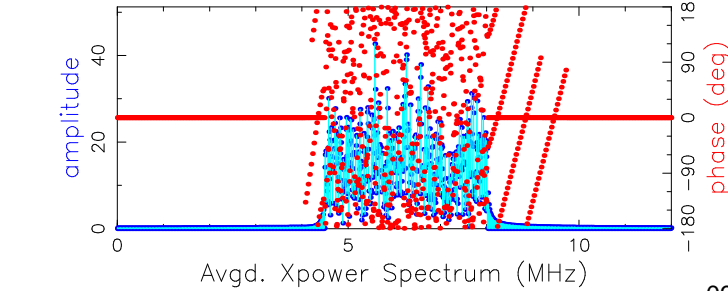
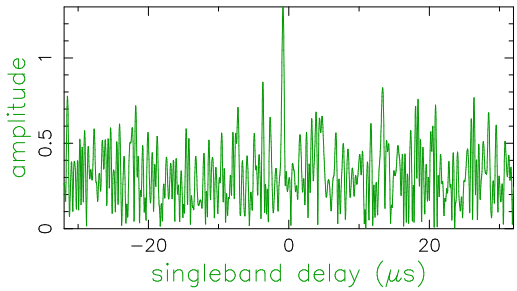
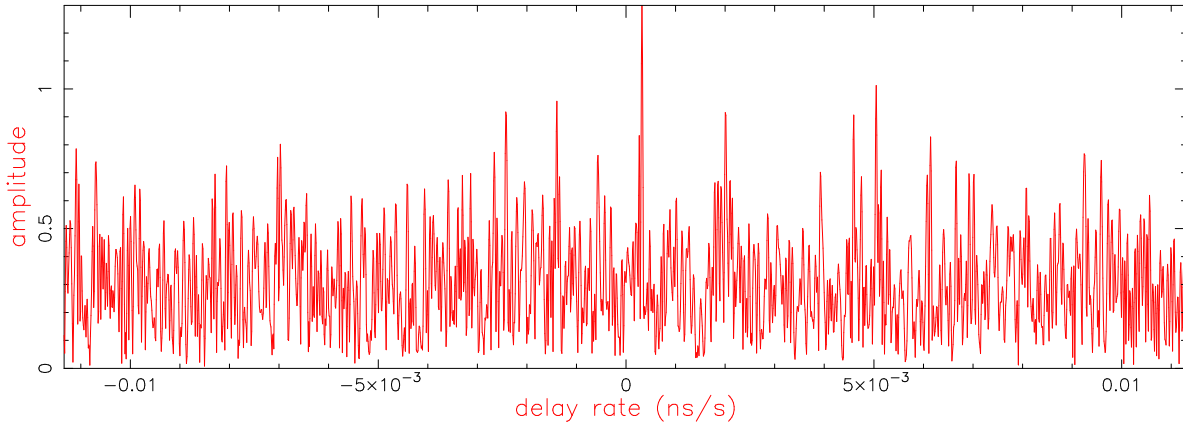
86227.00
-105.0
0.4
1585.0
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UL

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)	-1.07063938243E+04	Apriori delay (usec)	-1.07073938287E+04	Resid mbdelay (usec)	4.35135E-06	+/-	6.0E-03
Sband delay (usec)	-1.07063938287E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	1.00000E+00	+/-	6.0E-03
Phase delay (usec)	-1.07073938321E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.38700E-06	+/-	4.8E-07
Delay rate (us/s)	1.05186003498E+00	Apriori rate (us/s)	1.05185006909E+00	Resid rate (us/s)	9.96589E-06	+/-	2.8E-09
Total phase (deg)	-249.4	Apriori accel (us/s/s)	3.61527876321E-05	Resid phase (deg)	-105.0	+/-	15.0

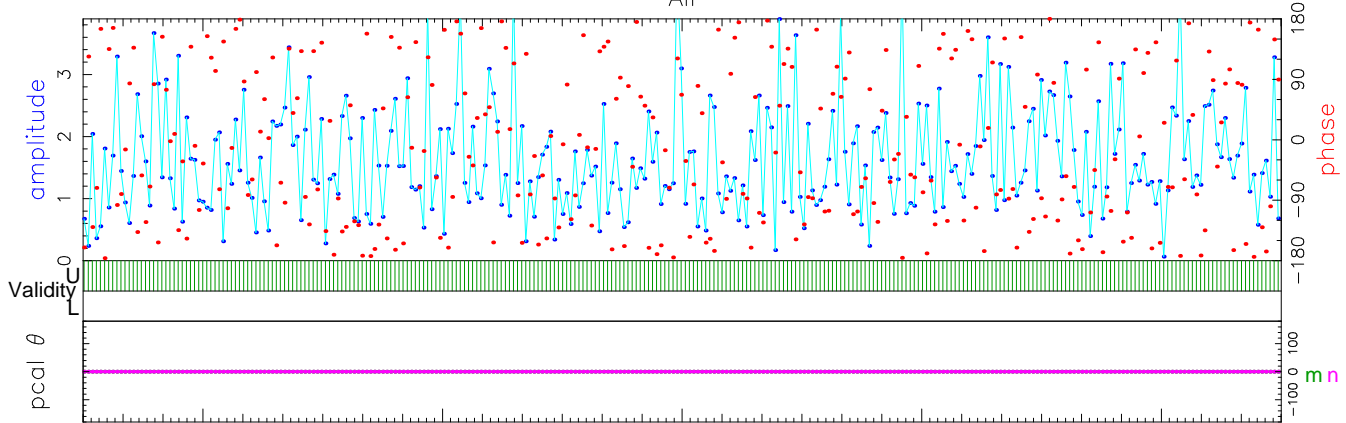
ph/seg (deg)	RMS 93.6	Theor. 128.5	Amplitude Search (2048X8)	1.480 +/- 0.194	1.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	93.7	224.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.5	Inc. seg. avg.	0.628	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	13.1	Inc. frq. avg.	1.467	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
m: az 60.8 el 28.5 pa -84.9		n: az 152.7 el 81.8 pa -23.5		u,v (fr/asec) -7256.668 -399.249		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 9.4
Int time 299.972
Amp 1.299
Phase 206.2
PFD 8.9e-14
Delays (us)
SBD -0.828011
MBD 0.000004
Fringe rate (Hz)
0.027872
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



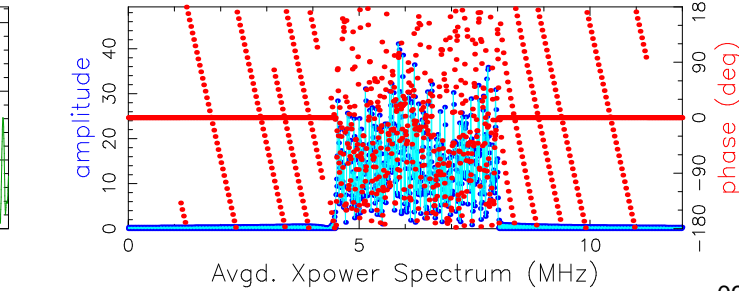
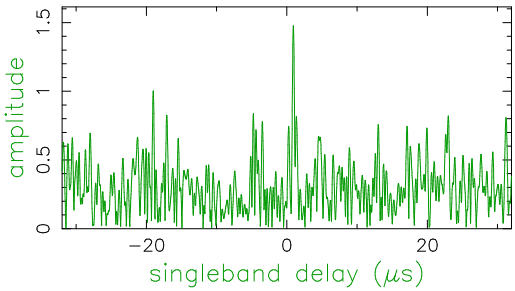
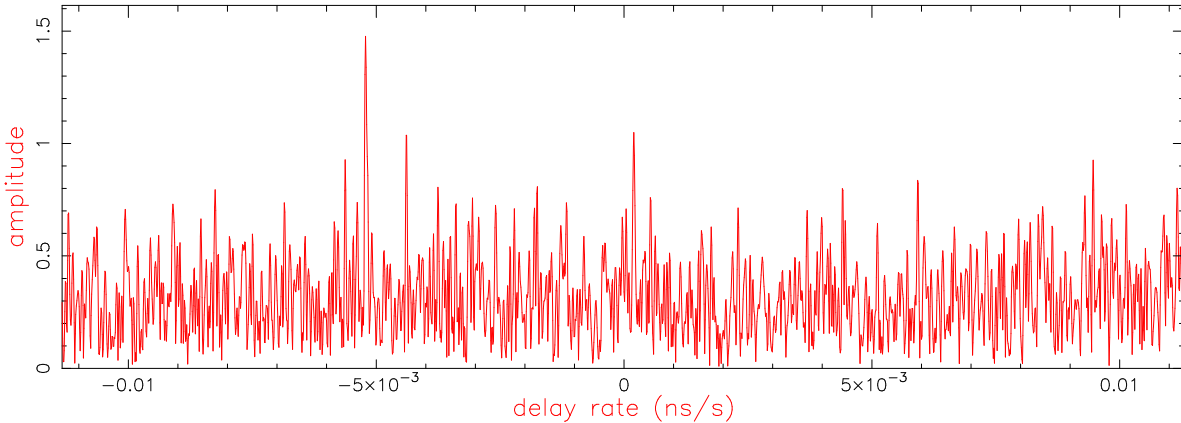
86227.00
-167.1
0.4
1497.2
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UL

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)	-1.07082218364E+04	Apriori delay (usec)	-1.07073938287E+04	Resid mbdelay (usec)	4.35418E-06	+/-	4.9E-03
Sband delay (usec)	-1.07082218393E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-8.28011E-01	+/-	4.9E-03
Phase delay (usec)	-1.07073938341E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.38838E-06	+/-	3.9E-07
Delay rate (us/s)	1.05185039266E+00	Apriori rate (us/s)	1.05185006909E+00	Resid rate (us/s)	3.23572E-07	+/-	2.3E-09
Total phase (deg)	61.8	Apriori accel (us/s/s)	3.61527876321E-05	Resid phase (deg)	206.2	+/-	12.2

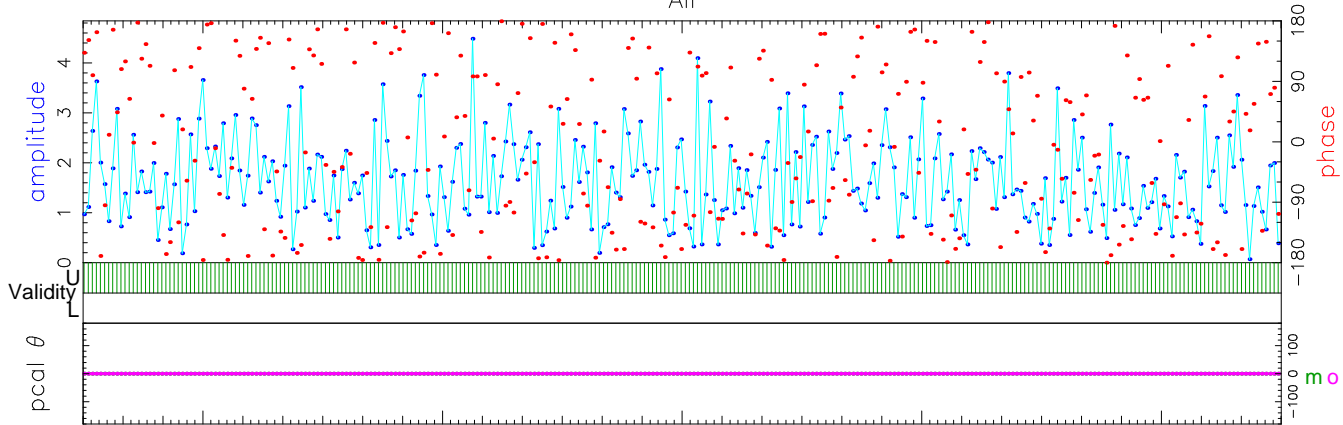
ph/seg (deg)	RMS 90.6	Theor. 104.2	Amplitude Search (2048X8)	1.299 +/- 0.138	1.283	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.6	181.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.619	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.6	Inc. frq. avg.	1.291	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
m: az 60.8 el 28.5 pa -84.9				n: az 152.7 el 81.8 pa -23.5	u,v (fr/asec) -7256.668 -399.249	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 7



SNR 10.7
Int time 299.974
Amp 1.614
Phase -171.3
PFD 1.8e-19
Delays (us)
SBD 0.930500
MBD -0.000004
Fringe rate (Hz)
-0.448697
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
172.2
0.5
1581.7
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UR

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)	-8.95115808189E+03	Apriori delay (usec)	-8.95208858654E+03	Resid mbdelay (usec)	-4.34990E-06	+/-	4.3E-03
Sband delay (usec)	-8.95115808654E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	9.30500E-01	+/-	4.3E-03
Phase delay (usec)	-8.95208858099E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.55382E-06	+/-	3.4E-07
Delay rate (us/s)	5.97216678050E-01	Apriori rate (us/s)	5.97221886978E-01	Resid rate (us/s)	-5.20893E-06	+/-	2.0E-09
Total phase (deg)	-115.4	Apriori accel (us/s/s)	3.07203316341E-05	Resid phase (deg)	-171.3	+/-	10.7

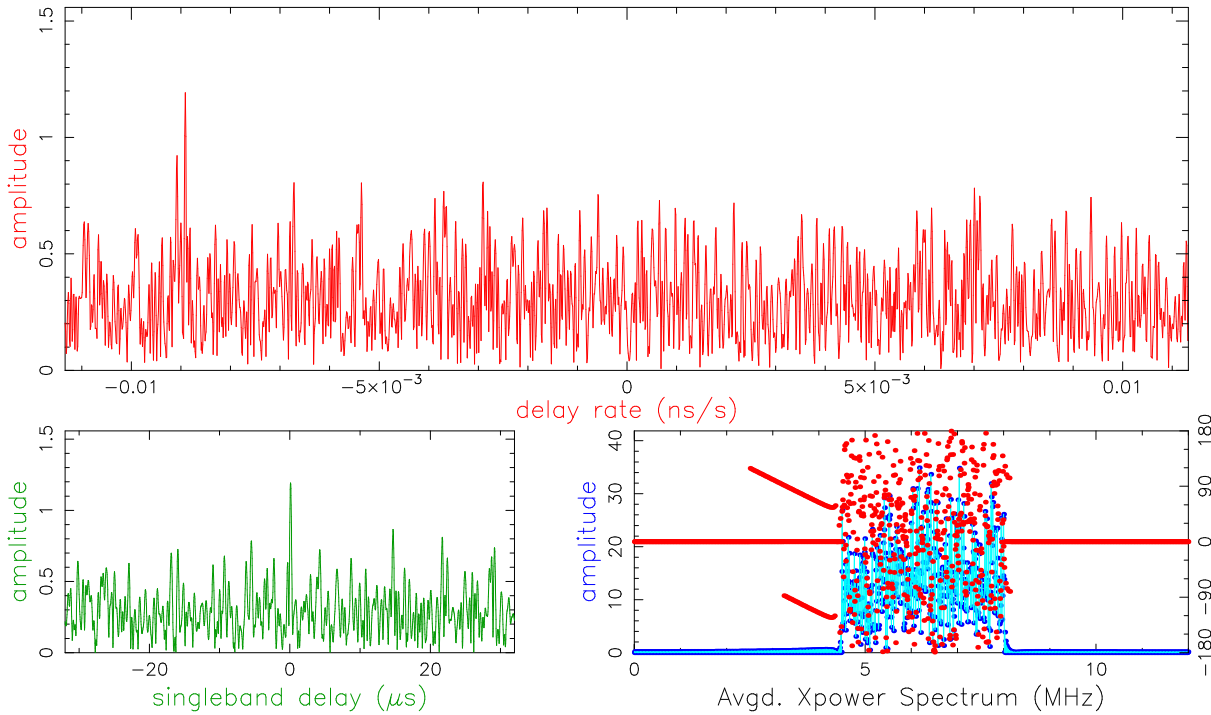
ph/seg (deg)	RMS 90.3	Theor. 91.5	Amplitude Search (2048X8)	1.614 +/- 0.151	1.438	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	60.0	159.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	5.3	Inc. seg. avg.	0.793	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	9.3	Inc. frq. avg.	1.606	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011	
				m, u, v (fr/asec) -4107.473 -264.429		nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

m: az 60.8 el 28.5 pa -84.9 o: az 86.9 el 64.6 pa -74.8 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mo.W.112.1T5GU7

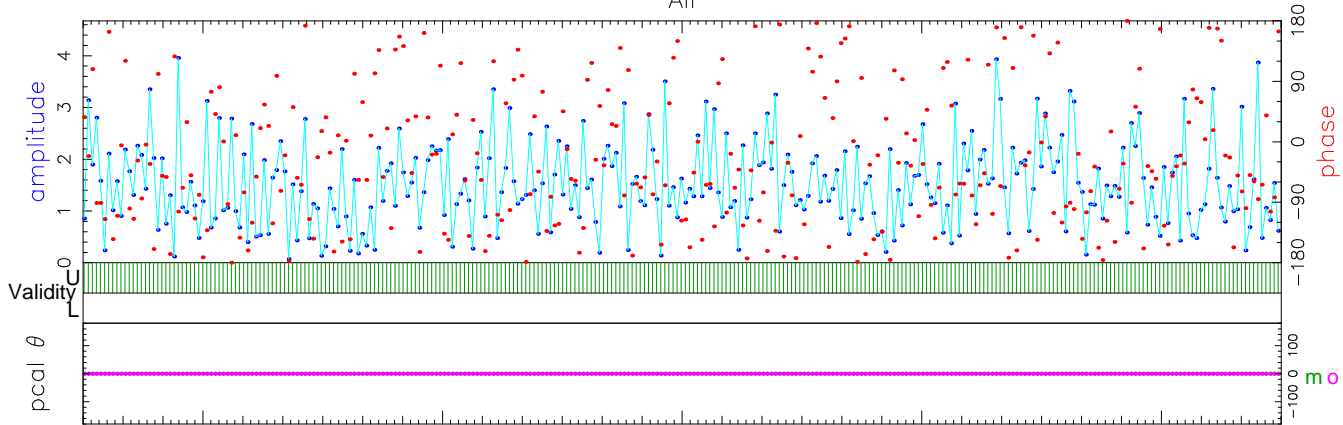
Fringe quality 8

SNR 8.6
Int time 299.974
Amp 1.558
Phase -164.9
PFD 9.2e-11
Delays (us)
SBD 0.105852
MBD -0.000006
Fringe rate (Hz)
-0.766514
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-89.4
0.5
1542.1
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UR

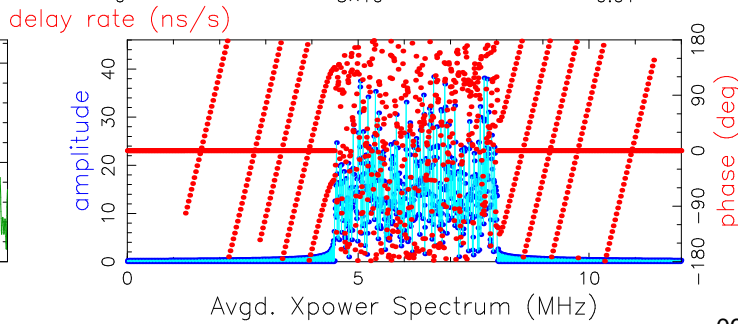
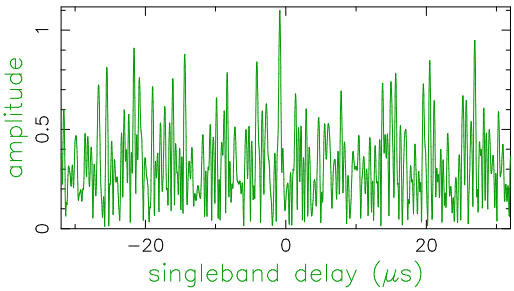
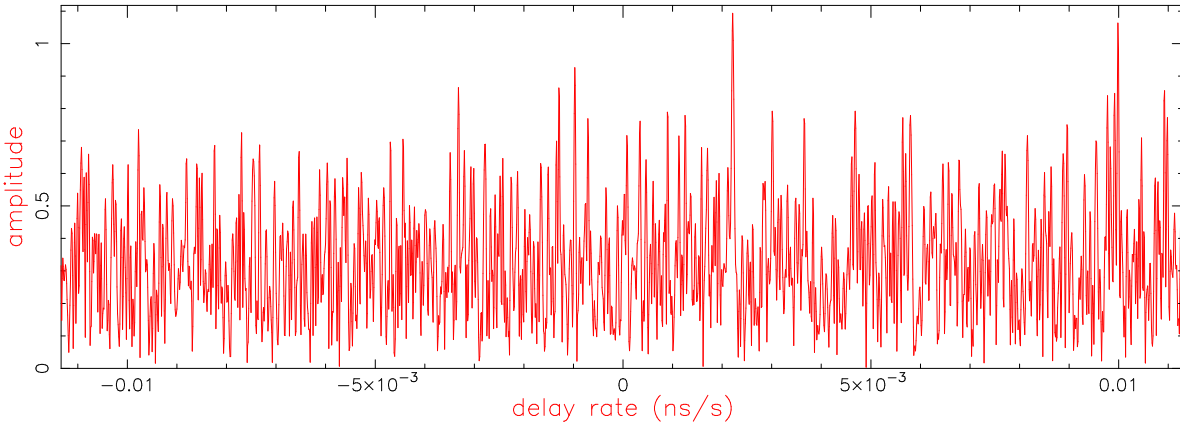
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.95198273211E+03	Apriori delay (usec)	-8.95208858654E+03	Resid mbdelay (usec)	-5.68240E-06	+/-	5.3E-03
Sband delay (usec)	-8.95198273454E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	1.05852E-01	+/-	5.3E-03
Phase delay (usec)	-8.95208858943E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.88229E-06	+/-	4.3E-07
Delay rate (us/s)	5.97212988512E-01	Apriori rate (us/s)	5.97221886978E-01	Resid rate (us/s)	-8.89847E-06	+/-	2.5E-09
Total phase (deg)	-109.0	Apriori accel (us/s/s)	3.07203316341E-05	Resid phase (deg)	-164.9	+/-	13.3

ph/seg (deg)	92.2	Theor.	113.4	Amplitude	1.558 +/- 0.180	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.4	Search (2048X8)	1.172	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.673	Inc. frq. avg.	1.548	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	Inc. frq. avg.	1.548			Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	
						nlags:	1536 t_cohere infinite			

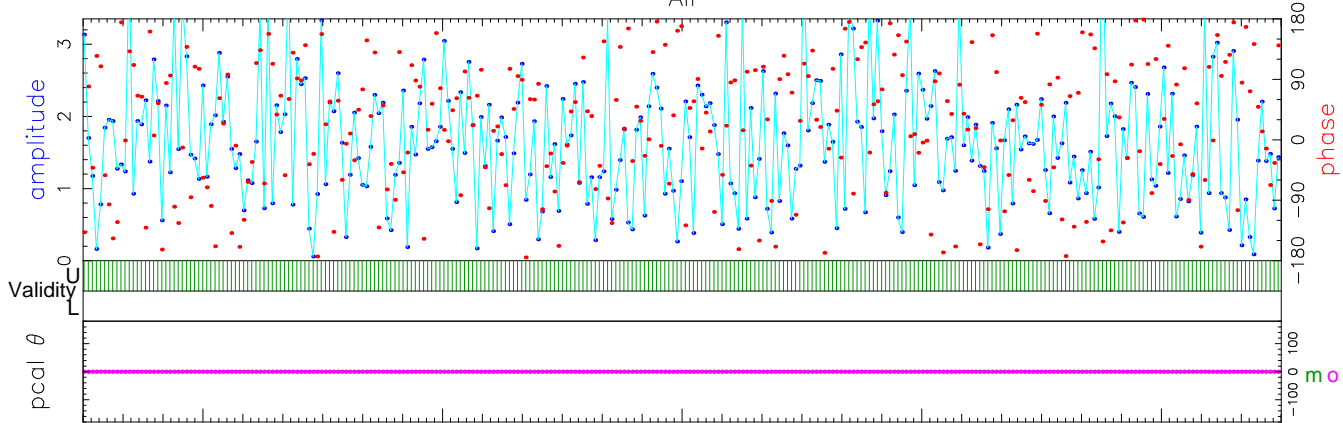
m: az 60.8 el 28.5 pa -84.9 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) -4107.473 -264.429 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mo.W.120.1T5GU7

Fringe quality 8



SNR 8.0
Int time 299.974
Amp 1.118
Phase 240.4
PFD 2.4e-08
Delays (us)
SBD -0.856245
MBD 0.000007
Fringe rate (Hz)
0.190242
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
62.6
0.3
1495.9
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UL

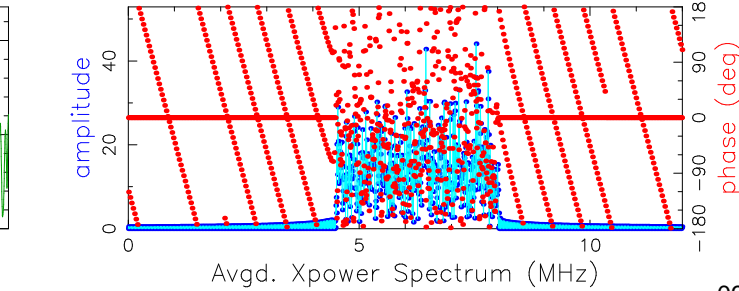
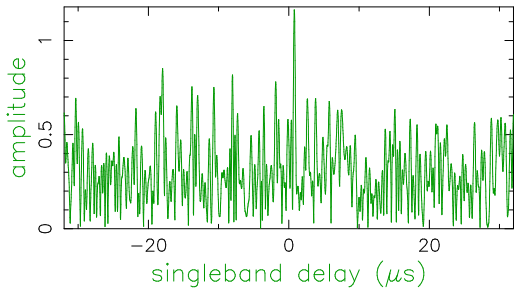
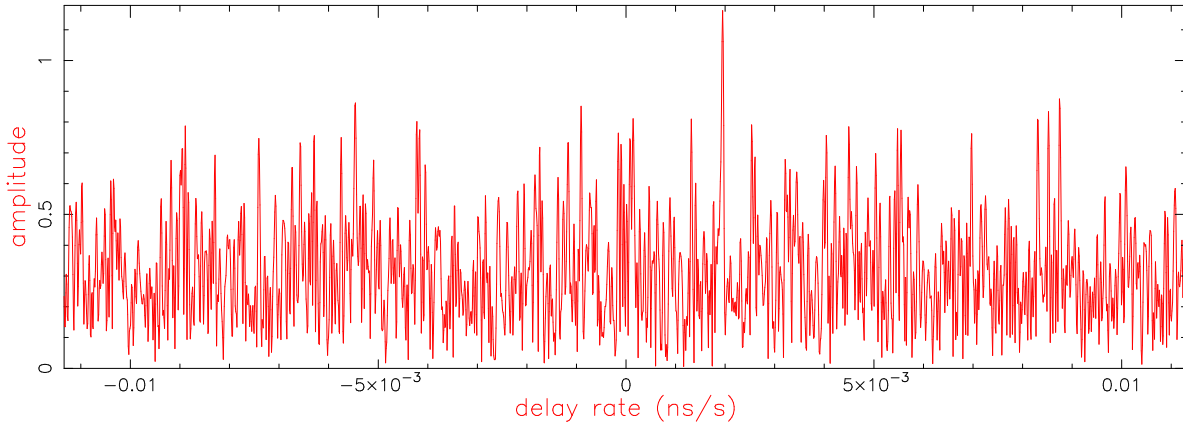
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.95294483116E+03	Apriori delay (usec)	-8.95208858654E+03	Resid mbdelay (usec)	6.90902E-06	+/-	5.8E-03
Sband delay (usec)	-8.95294483188E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-8.56245E-01	+/-	5.8E-03
Phase delay (usec)	-8.95208858452E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.01925E-06	+/-	4.6E-07
Delay rate (us/s)	5.97224095496E-01	Apriori rate (us/s)	5.97221886978E-01	Resid rate (us/s)	2.20852E-06	+/-	2.7E-09
Total phase (deg)	296.3	Apriori accel (us/s/s)	3.07203316341E-05	Resid phase (deg)	240.4	+/-	14.4

ph/seg (deg)	RMS 91.7	Theor. 122.9	Amplitude Search (2048X8)	1.118 +/- 0.140	1.081	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	93.7	214.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.508	0.508	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.9	12.5	Inc. frq. avg.	1.102	1.102	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

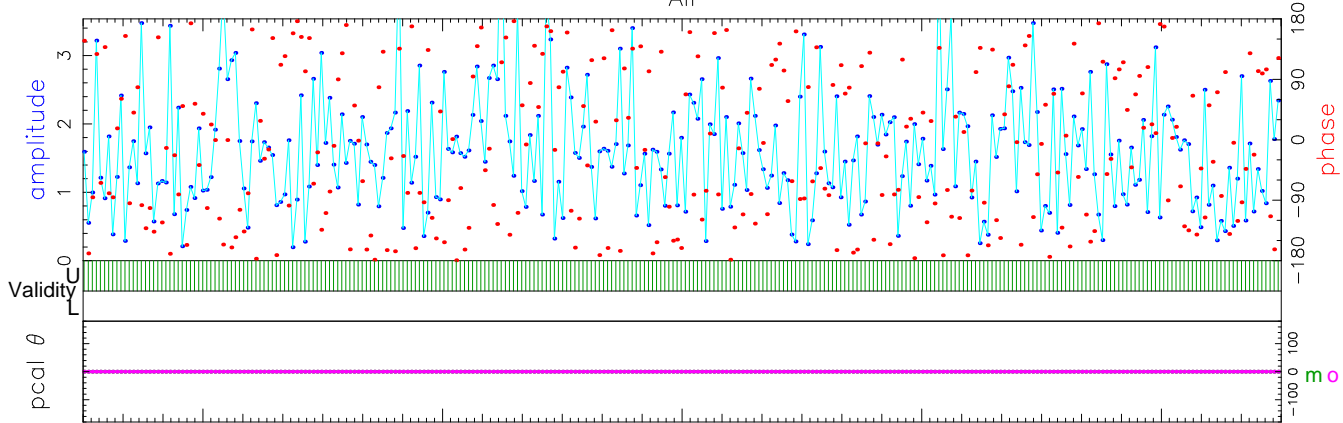
m: az 60.8 el 28.5 pa -84.9 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) -4107.473 -264.429 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mo.W.137.1T5GU7

Fringe quality 8



SNR 8.4
Int time 299.974
Amp 1.179
Phase -129.3
PFD 5.2e-10
Delays (us)
SBD 0.780957
MBD 0.000005
Fringe rate (Hz) 0.167724
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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
86227.00
-149.9
0.3
1574.5
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UL

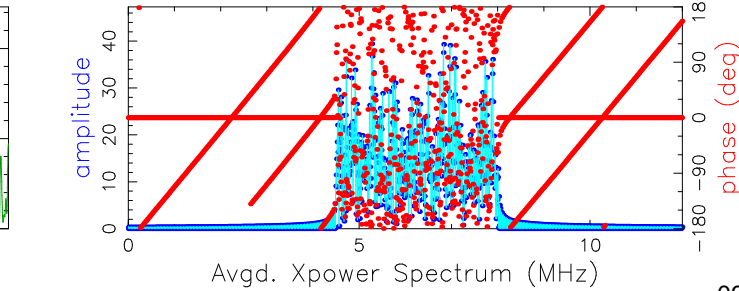
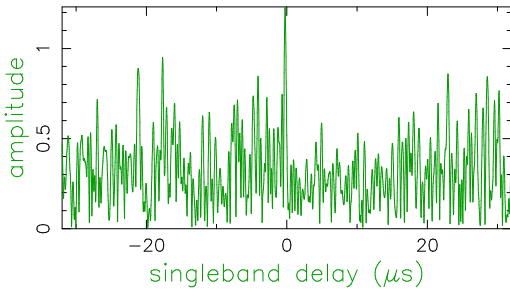
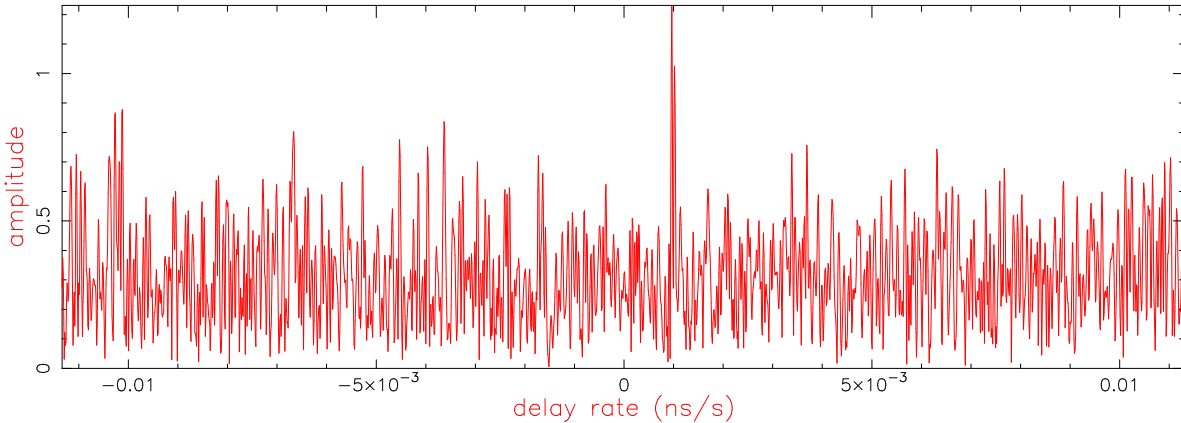
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.95130763126E+03	Apriori delay (usec)	-8.95208858654E+03	Resid mbdelay (usec)	4.99658E-06	+/-	5.4E-03
Sband delay (usec)	-8.95130762921E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	7.80957E-01	+/-	5.4E-03
Phase delay (usec)	-8.95208859138E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.83452E-06	+/-	4.4E-07
Delay rate (us/s)	5.97223834090E-01	Apriori rate (us/s)	5.97221886978E-01	Resid rate (us/s)	1.94711E-06	+/-	2.5E-09
Total phase (deg)	-73.4	Apriori accel (us/s/s)	3.07203316341E-05	Resid phase (deg)	-129.3	+/-	13.6

ph/seg (deg)	RMS 95.6	Theor. 116.1	Amplitude Search (2048X8)	1.179 +/- 0.140	1.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.1	202.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.535	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.8	Inc. frq. avg.	1.168	0.000	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				m: az 60.8 el 28.5 pa -84.9		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
				o: az 86.9 el 64.6 pa -74.8		ion window (TEC) 0.00 0.00	
				u,v (fr/asec) -4107.473 -264.429		simultaneous interpolator	

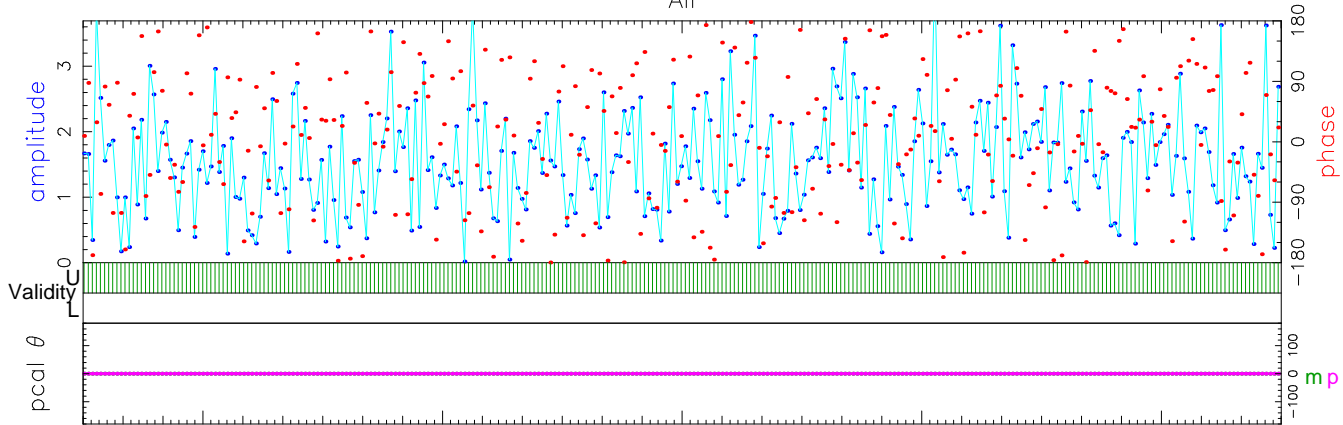
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Fringe quality 8



SNR 8.9
Int time 299.973
Amp 1.231
Phase 325.3
PFD 1.0e-11
Delays (us)
SBD -0.250357
MBD 0.000006
Fringe rate (Hz)
0.083063
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
44.0
0.4
1525.0
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UR

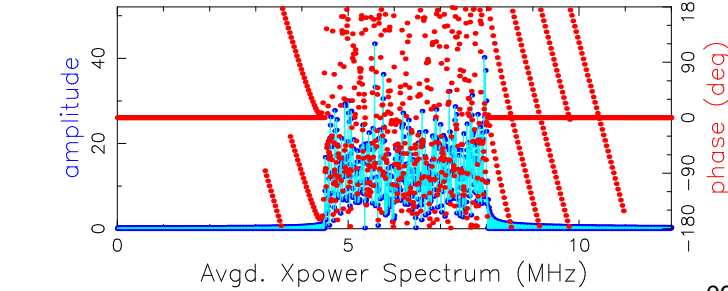
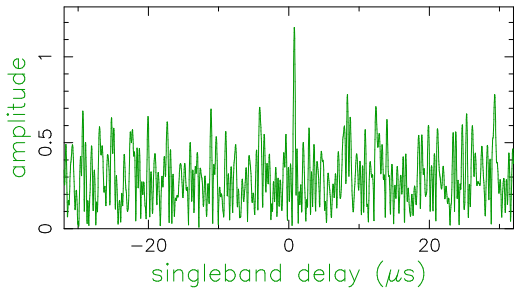
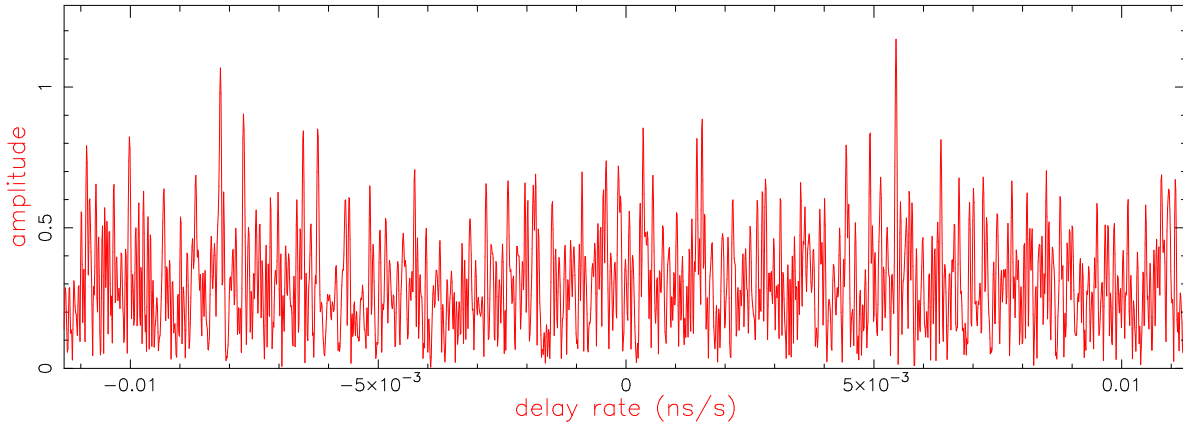
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00138085998E+04	Apriori delay (usec)	-1.00135582433E+04	Resid mbdelay (usec)	5.92316E-06	+/-	5.2E-03
Sband delay (usec)	-1.00138086006E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-2.50357E-01	+/-	5.2E-03
Phase delay (usec)	-1.00135582419E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.41864E-06	+/-	4.2E-07
Delay rate (us/s)	7.47111411340E-01	Apriori rate (us/s)	7.47110447056E-01	Resid rate (us/s)	9.64285E-07	+/-	2.4E-09
Total phase (deg)	297.4	Apriori accel (us/s/s)	3.89939079331E-05	Resid phase (deg)	325.3	+/-	12.9

ph/seg (deg)	RMS 92.6	Theor. 110.2	Amplitude Search (2048X8)	1.231 +/- 0.138	1.215	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.0	192.3	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.550	0.550	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.223	1.223	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

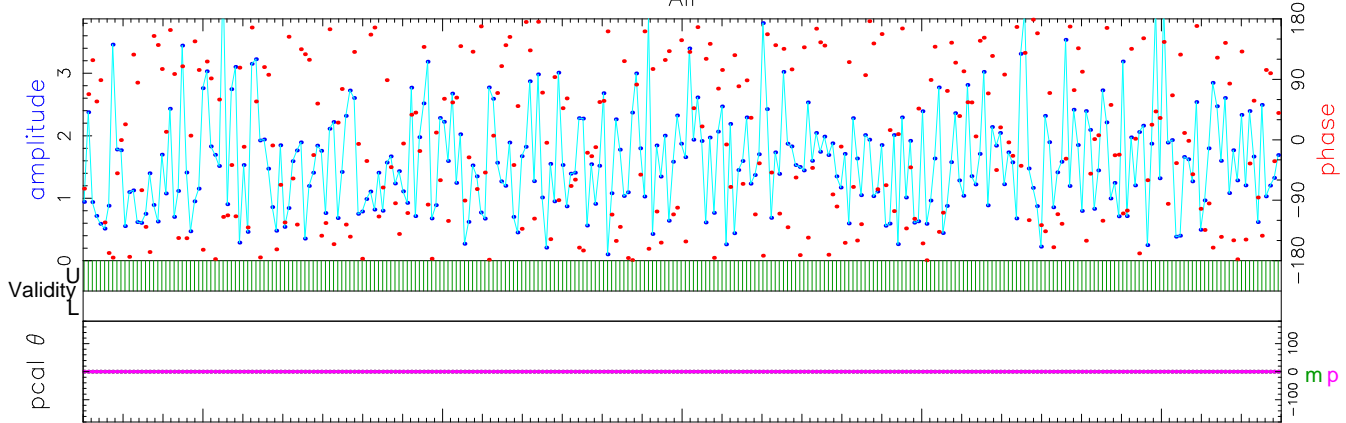
m: az 60.8 el 28.5 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -5138.798 489.556 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mp.W.108.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.973
Amp 1.290
Phase -265.9
PFD 3.3e-10
Delays (us)
SBD 0.784005
MBD 0.000006
Fringe rate (Hz)
0.468404
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
168.9
0.4
1574.6
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UR

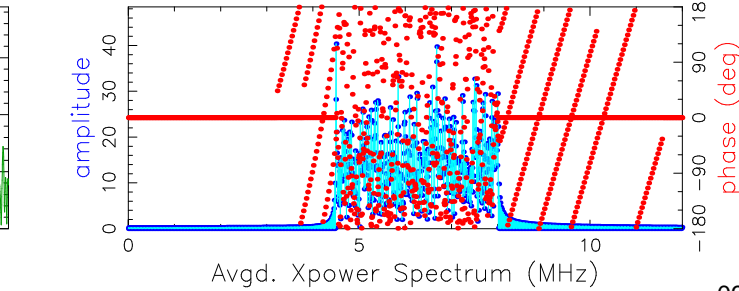
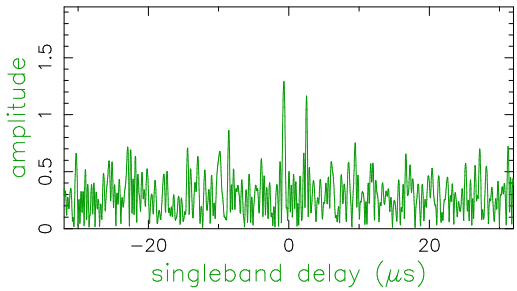
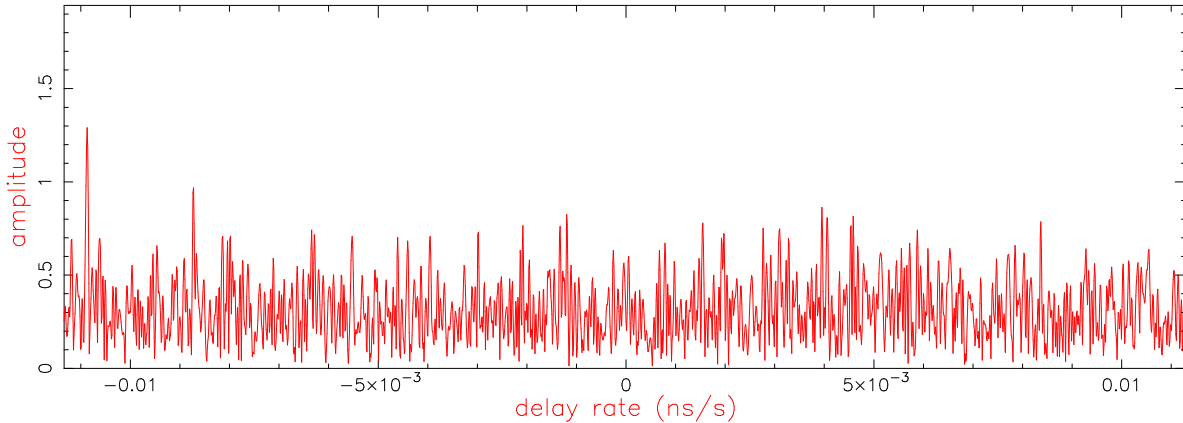
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00127742373E+04	Apriori delay (usec)	-1.00135582433E+04	Resid mbdelay (usec)	5.67312E-06	+/-	5.4E-03
Sband delay (usec)	-1.00127742380E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	7.84005E-01	+/-	5.4E-03
Phase delay (usec)	-1.00135582378E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.44816E-06	+/-	4.3E-07
Delay rate (us/s)	7.47115884766E-01	Apriori rate (us/s)	7.47110447056E-01	Resid rate (us/s)	5.43771E-06	+/-	2.5E-09
Total phase (deg)	-293.9	Apriori accel (us/s/s)	3.89939079331E-05	Resid phase (deg)	-265.9	+/-	13.5

ph/seg (deg)	RMS 94.8	Theor. 115.4	Amplitude Search (2048X8)	1.290 +/- 0.152	1.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.1	201.5	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.583	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.280	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
m: az 60.8 el 28.5 pa -84.9					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00
p: az 83.6 el 72.6 pa -84.9							
u,v (fr/asec)							

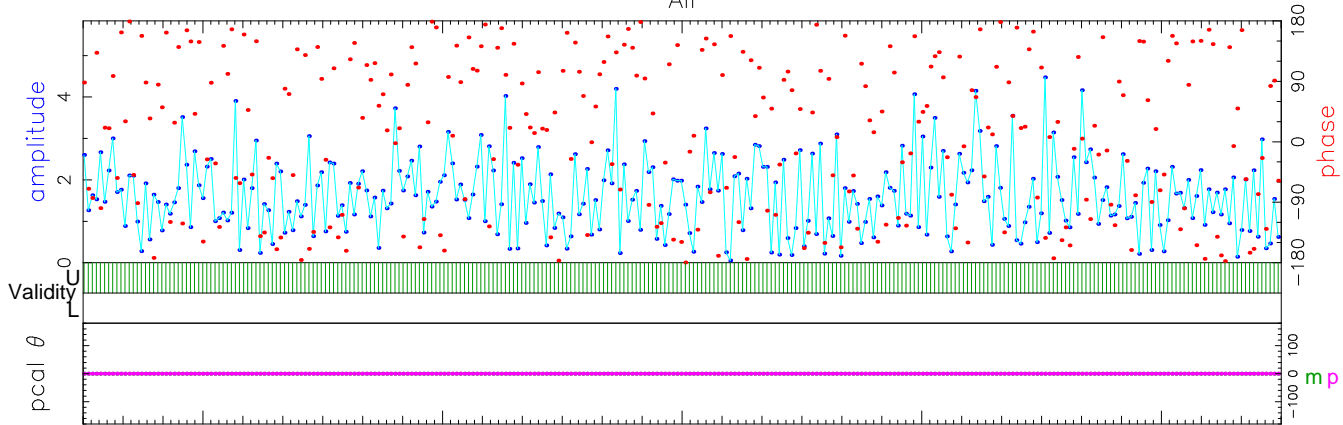
m: az 60.8 el 28.5 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -5138.798 489.556 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mp.W.126.1T5GU7

Fringe quality 8



SNR 9.4
Int time 299.973
Amp 1.946
Phase 258.8
PFD 1.5e-13
Delays (us)
SBD -0.705220
MBD -0.000007
Fringe rate (Hz)
-0.935513
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



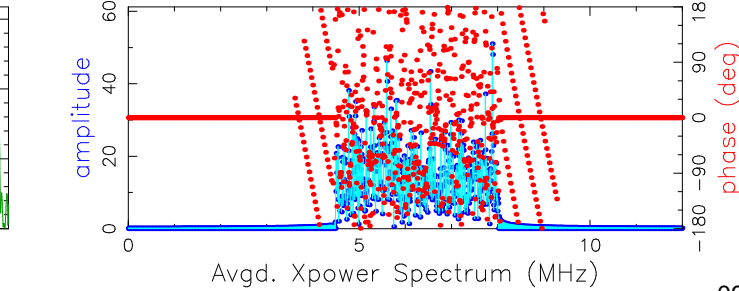
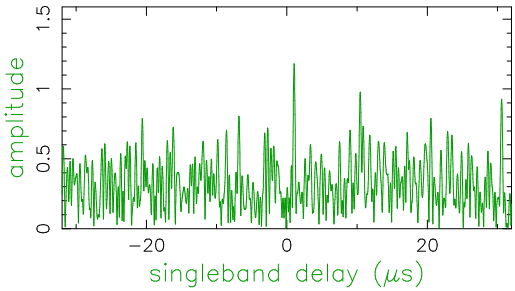
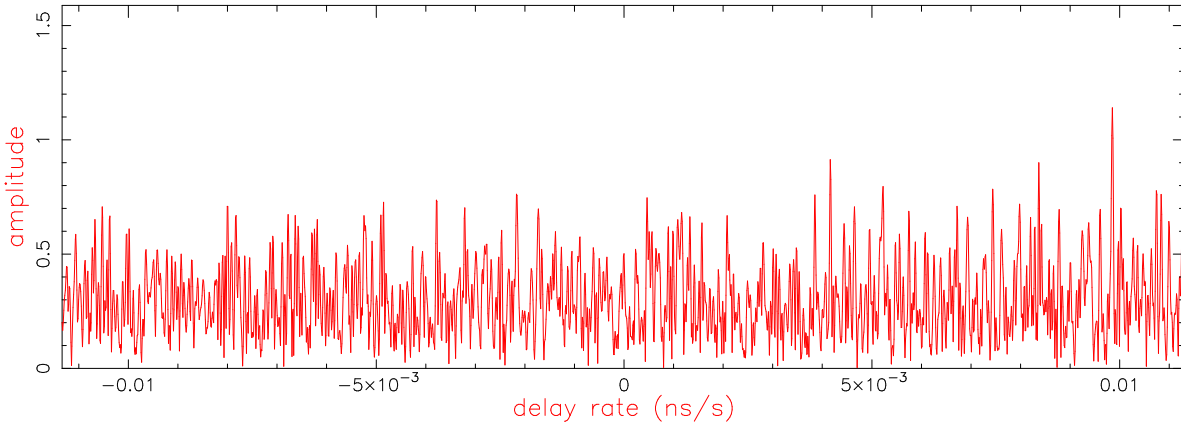
86227.00
131.7
0.6
1503.1
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UL

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)	-1.00142634589E+04	Apriori delay (usec)	-1.00135582433E+04	Resid mbdelay (usec)	-7.24810E-06	+/-	4.9E-03
Sband delay (usec)	-1.00142634633E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-7.05220E-01	+/-	4.9E-03
Phase delay (usec)	-1.00135582391E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.24685E-06	+/-	3.9E-07
Delay rate (us/s)	7.47099586674E-01	Apriori rate (us/s)	7.47110447056E-01	Resid rate (us/s)	-1.08604E-05	+/-	2.3E-09
Total phase (deg)	230.9	Apriori accel (us/s/s)	3.89939079331E-05	Resid phase (deg)	258.8	+/-	12.2

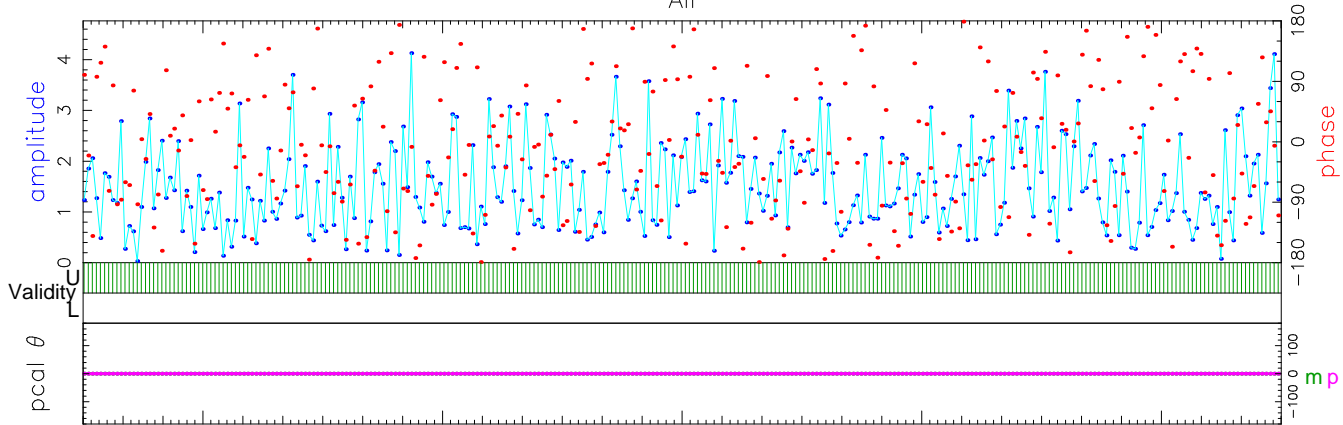
ph/seg (deg)	RMS 93.0	Theor. 104.8	Amplitude Search (2048X8)	1.946 +/- 0.208	1.289	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.5	182.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.917	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.935	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
m: az 60.8 el 28.5 pa -84.9		p: az 83.6 el 72.6 pa -84.9		u,v (fr/asec) -5138.798 489.556		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 8.3
Int time 299.973
Amp 1.588
Phase -14.0
PFD 2.3e-09
Delays (us)
SBD 1.000000
MBD 0.000006
Fringe rate (Hz)
0.847590
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



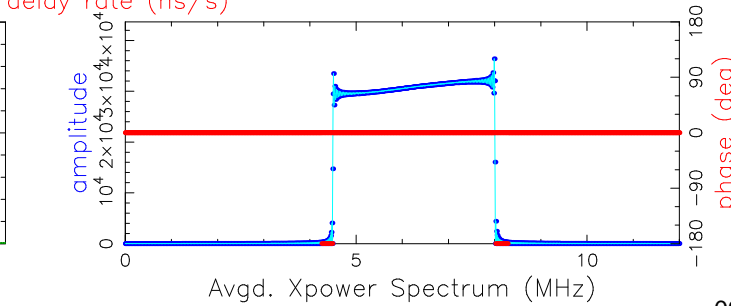
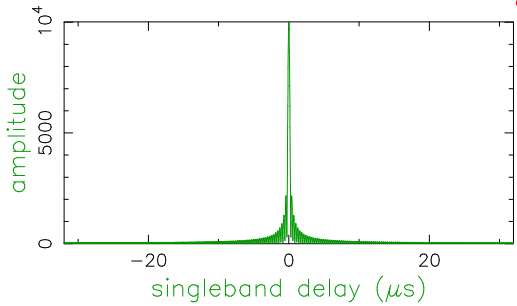
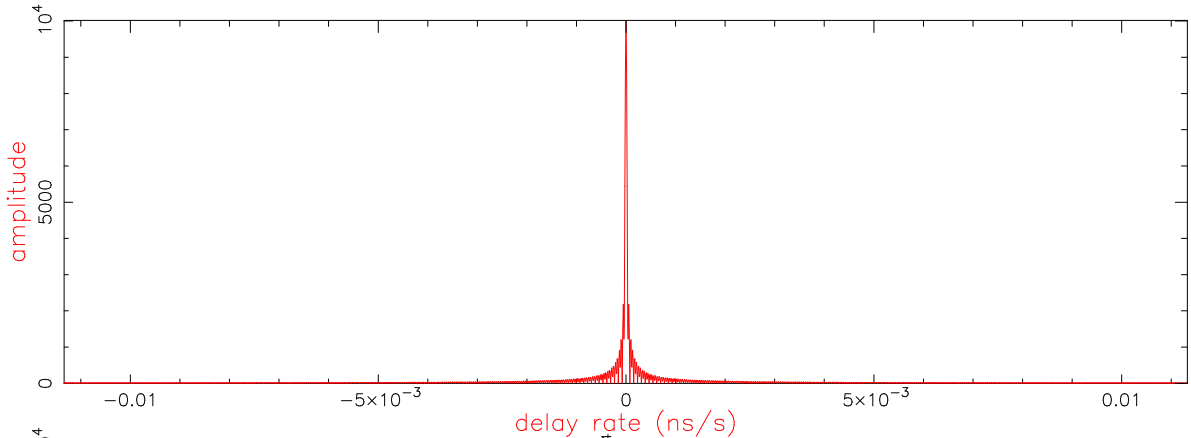
86227.00
-14.0
0.5
1586.9
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UL

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)	-1.00125582376E+04	Apriori delay (usec)	-1.00135582433E+04	Resid mbdelay (usec)	5.68221E-06	+/-	5.6E-03
Sband delay (usec)	-1.00125582433E+04	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	1.00000E+00	+/-	5.6E-03
Phase delay (usec)	-1.00135582438E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.52845E-07	+/-	4.5E-07
Delay rate (us/s)	7.47120286735E-01	Apriori rate (us/s)	7.47110447056E-01	Resid rate (us/s)	9.83968E-06	+/-	2.6E-09
Total phase (deg)	-42.0	Apriori accel (us/s/s)	3.89939079331E-05	Resid phase (deg)	-14.0	+/-	13.9

ph/seg (deg)	RMS 93.2	Theor. 118.7	Amplitude Search (2048X8)	1.588 +/- 0.192	1.124	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.3	207.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.675	0.675	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.577	1.577	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

m: az 60.8 el 28.5 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -5138.798 489.556 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/mp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/mp.W.87.1T5GU7

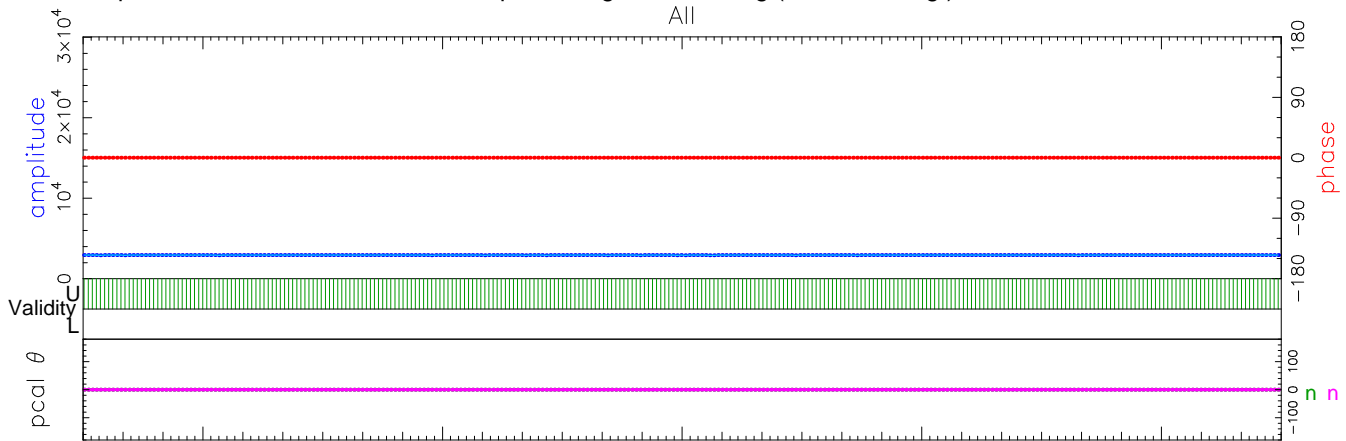


Fringe quality 5

SNR 72635.8
Int time 299.972
Amp 10017.444
Phase 0.2
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
0.2
2934.8
1537.0
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UL

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

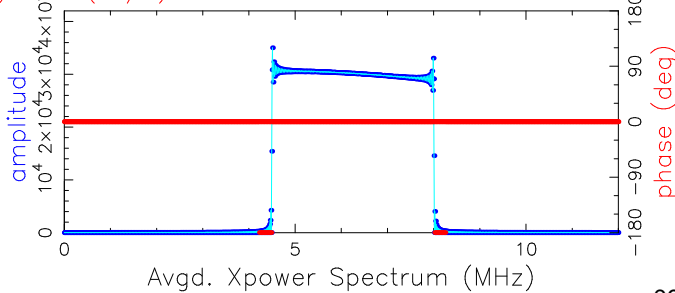
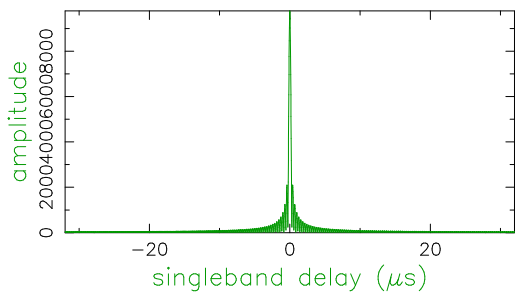
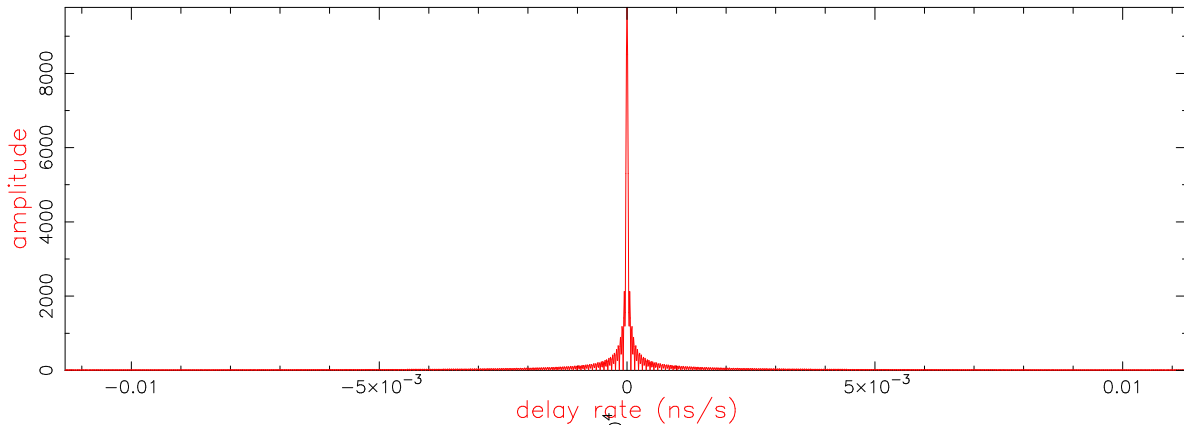
Group delay (usec)(sbd)	-5.12600461572E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.12600E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	5.53422834063E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.53423E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10017.444 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10017.444	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2934.798	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10017.443	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 152.7 el 81.8 pa -23.5				u,v (fr/asec)	0.000 0.000	nlags: 1536 t_cohere infinite	simultaneous interpolator

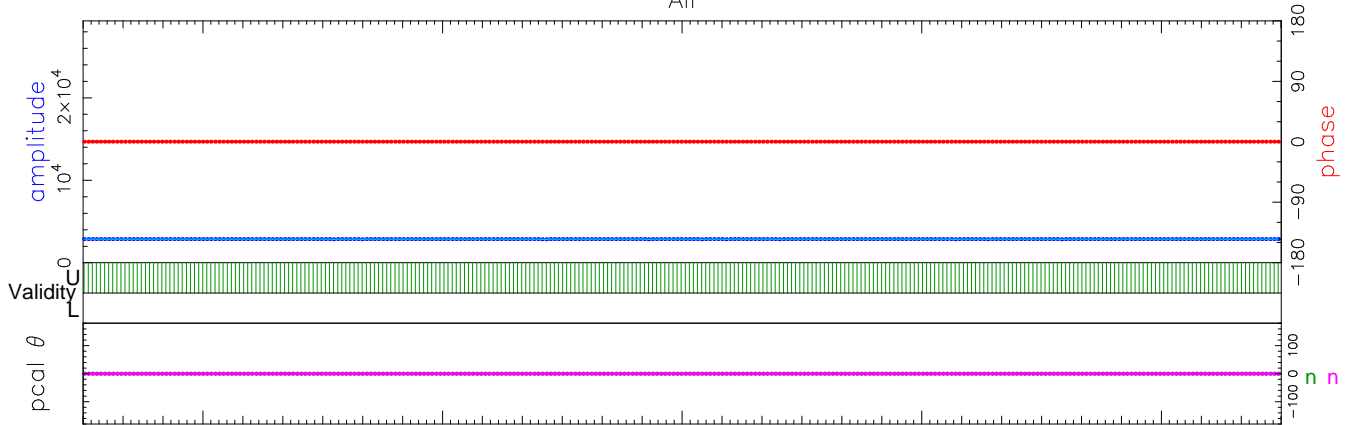
Fringe quality 5

SNR 70906.0
Int time 299.972
Amp 9778.883
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



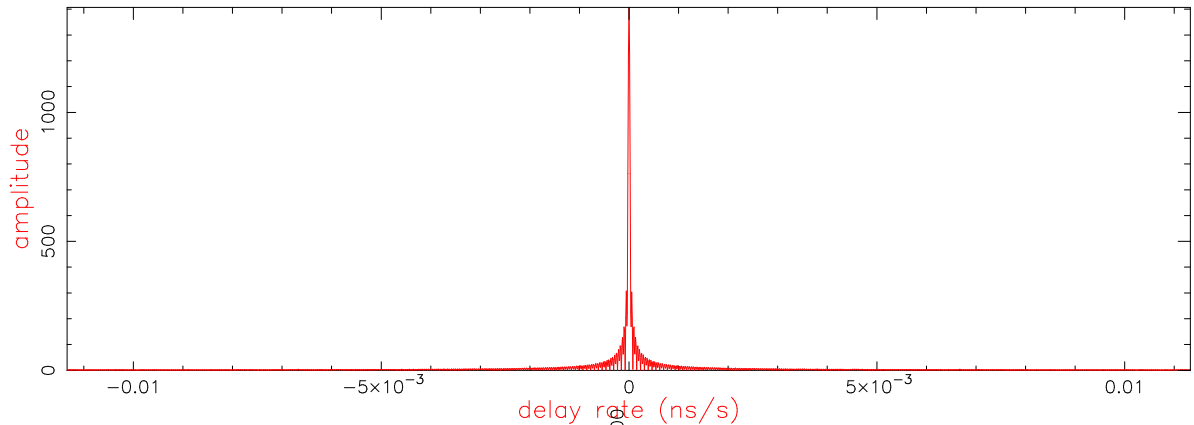
86227.00
0.2
2864.9
1537.0
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UR

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)	5.61216324353E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.98513E-06	+/- 6.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.5E-07
Phase delay (usec)	6.46177502723E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.46178E-09	+/- 5.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 3.0E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.2	+/- 0.0

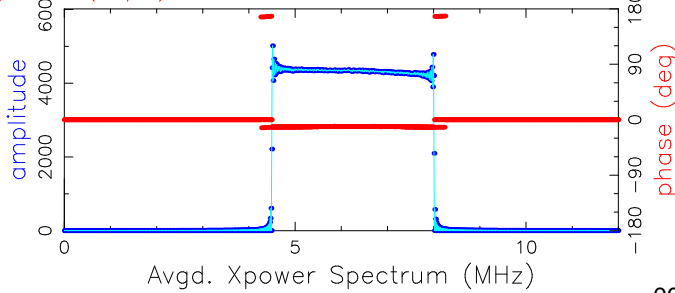
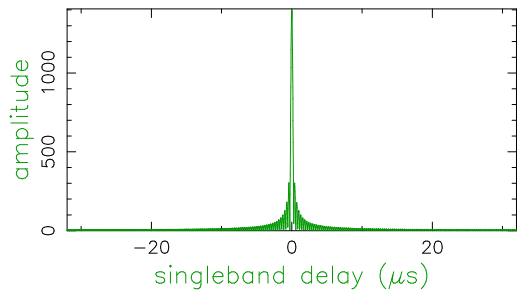
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9778.884 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9778.884	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2864.907	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9778.884	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

n: az 152.7 el 81.8 pa -23.5 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/nn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/nn.W.118.1T5GU7



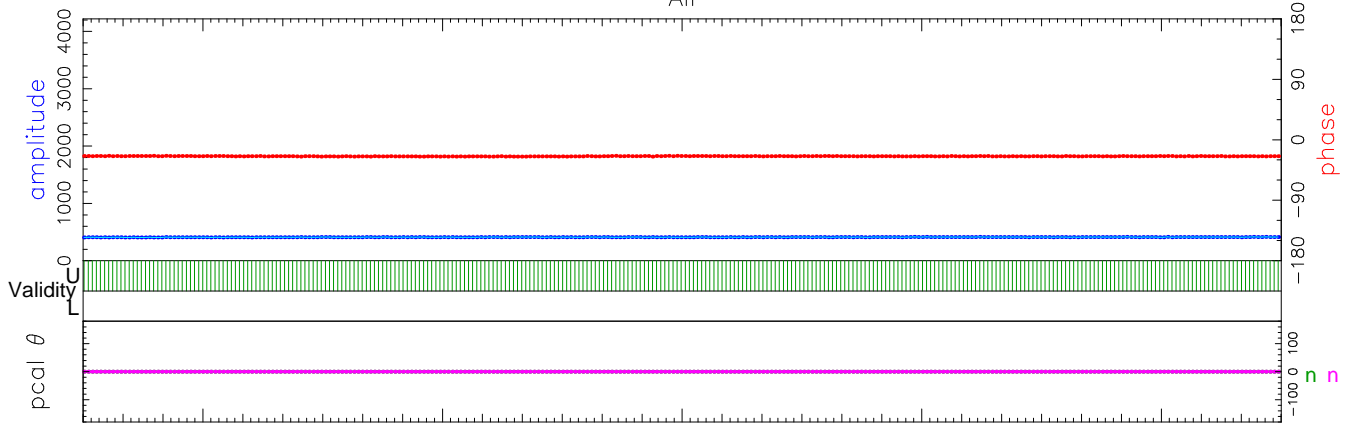
Fringe quality 5

SNR 10201.6
Int time 299.972
Amp 1406.937
Phase 158.9
PFD 0.0e+00
Delays (us)
SBD -0.005857
MBD -0.000006
Fringe rate (Hz)
0.000007
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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

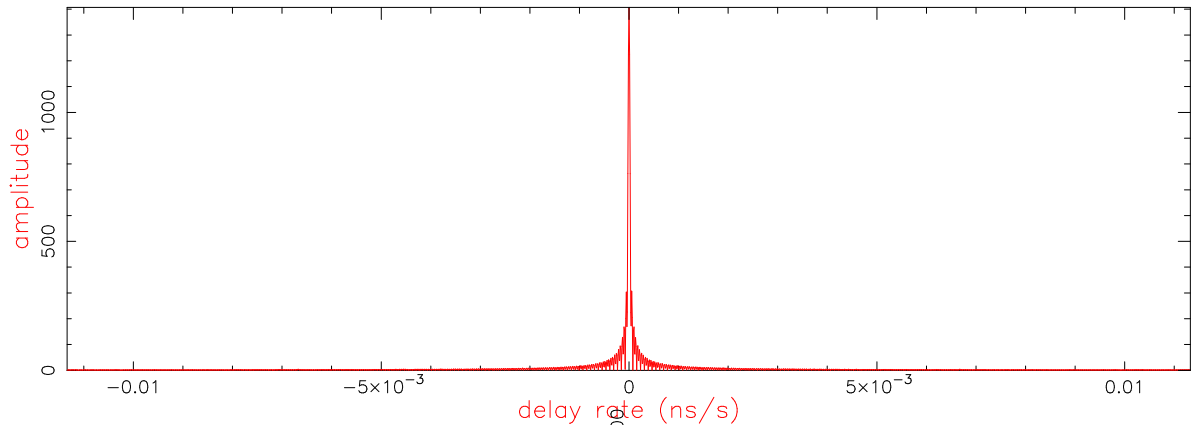


86227.00
-24.5
411.9
1536.7
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UR

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

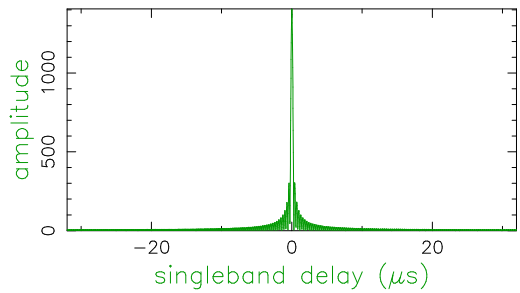
Group delay (usec)(sbd)	-5.86226931240E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.63508E-06	+/- 4.5E-06
Sband delay (usec)	-5.85733333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.85733E-03	+/- 4.5E-06
Phase delay (usec)	-7.89626982655E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.89627E-07	+/- 3.6E-10
Delay rate (us/s)	7.65242229151E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	7.65242E-11	+/- 2.1E-12
Total phase (deg)	158.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	158.9	+/- 0.0

ph/seg (deg) 0.3 0.1 Amplitude 1406.937 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 411.905 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1405.958 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
n: az 152.7 el 81.8 pa -23.5 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/nn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/nn.W.124.1T5GU7 simultaneous interpolator

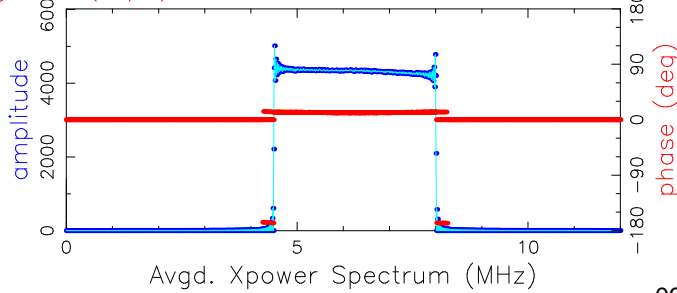


Fringe quality 5

SNR 10201.6
Int time 299.972
Amp 1406.937
Phase -158.9
PFD 0.0e+00
Delays (us)
SBD 0.005857
MBD -0.000007
Fringe rate (Hz)
-0.000007
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

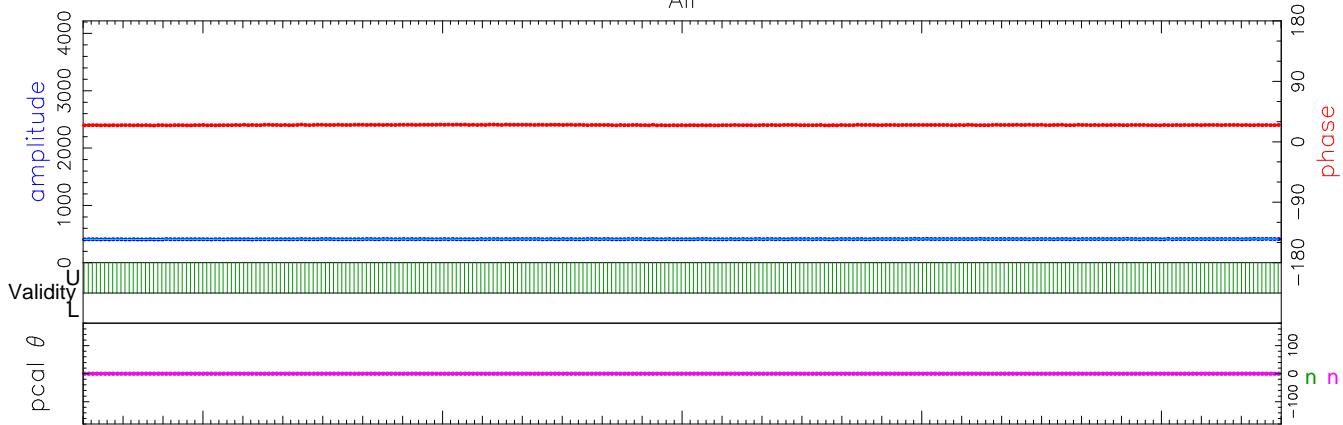


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
24.9
411.9
1537.3
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UL

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

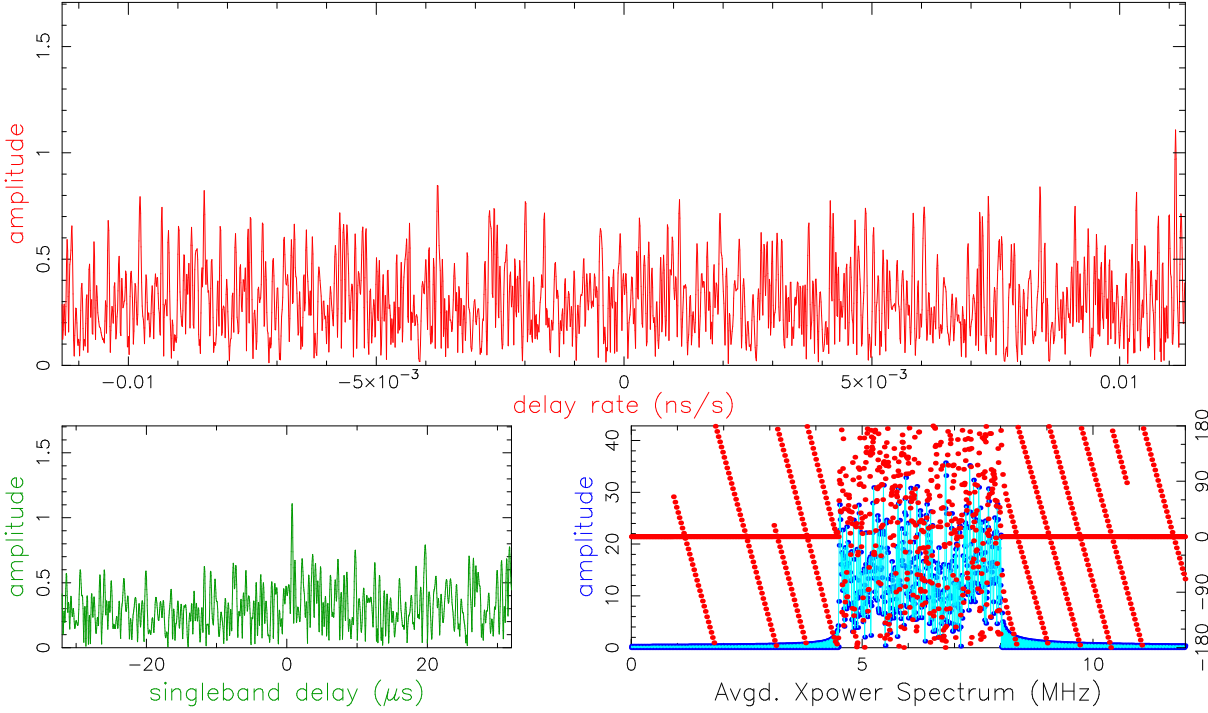
Group delay (usec)(sbd)	5.86104403493E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.18749E-06	+/- 4.5E-06
Sband delay (usec)	5.85733333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.85733E-03	+/- 4.5E-06
Phase delay (usec)	8.03470716963E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.03471E-07	+/- 3.6E-10
Delay rate (us/s)	-7.65242229151E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-7.65242E-11	+/- 2.1E-12
Total phase (deg)	-158.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-158.9	+/- 0.0

ph/seg (deg) 0.3 0.1 Amplitude 1406.937 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 411.905 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1405.958 Sample rate(MISamp/s): 24 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 152.7 el 81.8 pa -23.5 n: az 152.7 el 81.8 pa -23.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/nn..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/nn.W.131.1T5GU7

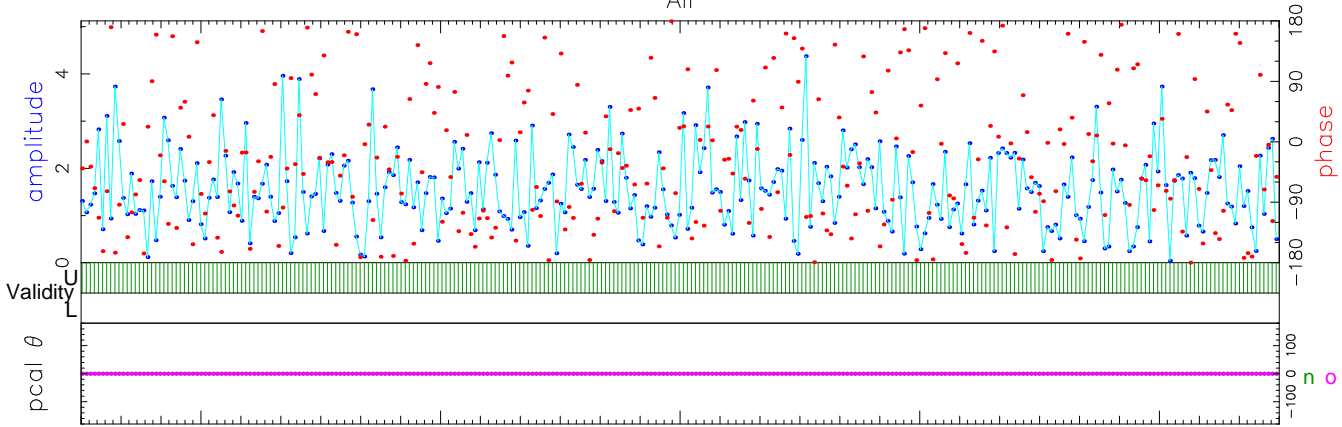
Fringe quality 8

SNR 8.0
Int time 299.972
Amp 1.708
Phase -268.5
PFD 1.5e-08
Delays (us)
SBD 0.753183
MBD 0.000005
Fringe rate (Hz)
0.957494
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



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



86227.00
-79.1
0.5
1573.1
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UL
o W03UR

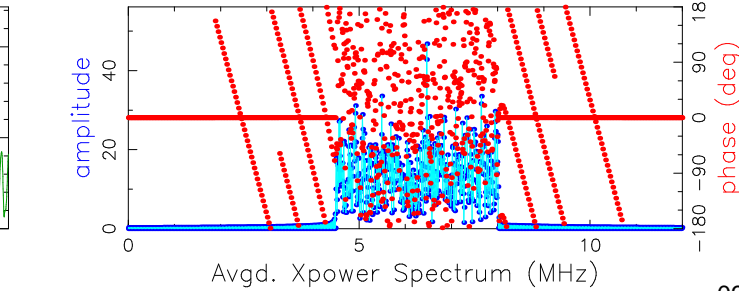
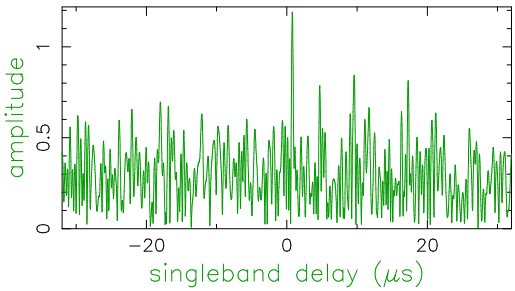
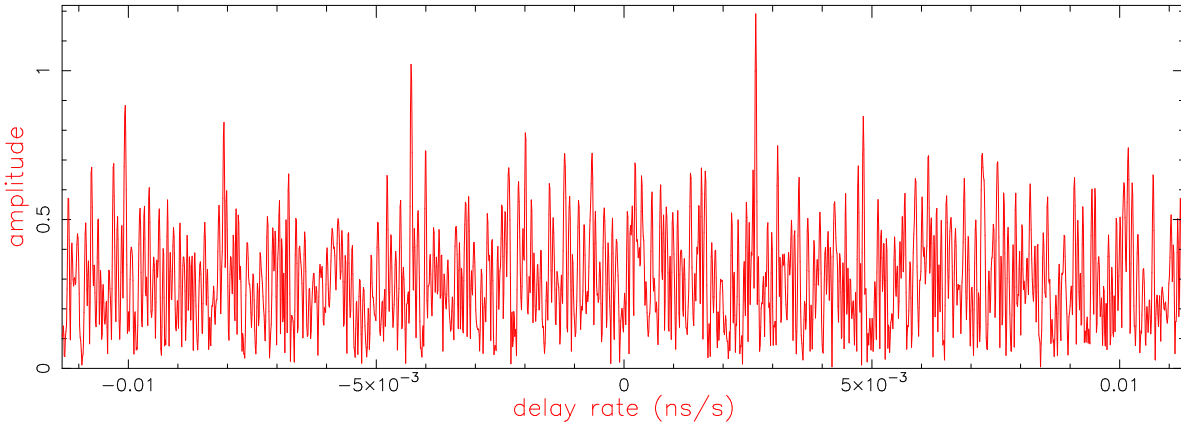
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.75605842158E+03	Apriori delay (usec)	1.75530524212E+03	Resid mbdelay (usec)	4.69950E-06	+/-	5.7E-03
Sband delay (usec)	1.75605842479E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	7.53183E-01	+/-	5.7E-03
Phase delay (usec)	1.75530523957E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.55113E-06	+/-	4.6E-07
Delay rate (us/s)	-4.54617066558E-01	Apriori rate (us/s)	-4.54628182115E-01	Resid rate (us/s)	1.11156E-05	+/-	2.7E-09
Total phase (deg)	-68.3	Apriori accel (us/s/s)	-5.43245599800E-06	Resid phase (deg)	-268.5	+/-	14.3

ph/seg (deg)	RMS 92.6	Theor. 122.0	Amplitude Search (2048X8)	1.708 +/- 0.213	1.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.3	213.0	Interp.	0.000	1.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.731	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.695	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
n: az 152.7 el 81.8 pa -23.5	o: az 86.9 el 64.6 pa -74.8	u,v (fr/asec) 3149.195 134.820				Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

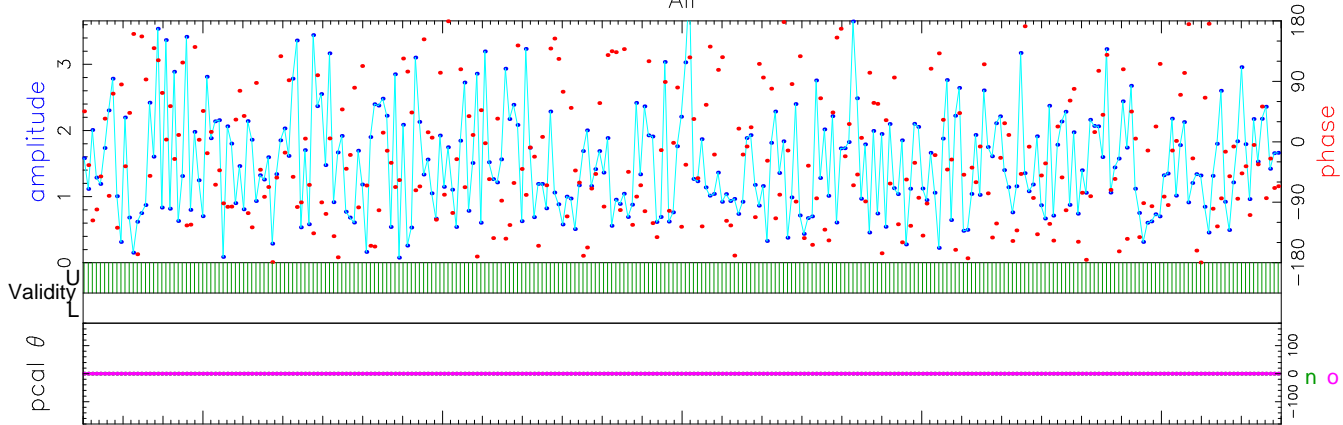
n: az 152.7 el 81.8 pa -23.5 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 3149.195 134.820 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/no..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/no.W.121.1T5GU7

Fringe quality 8



SNR 8.6
Int time 299.972
Amp 1.220
Phase -159.6
PFD 9.4e-11
Delays (us)
SBD 0.784709
MBD 0.000004
Fringe rate (Hz)
0.228825
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



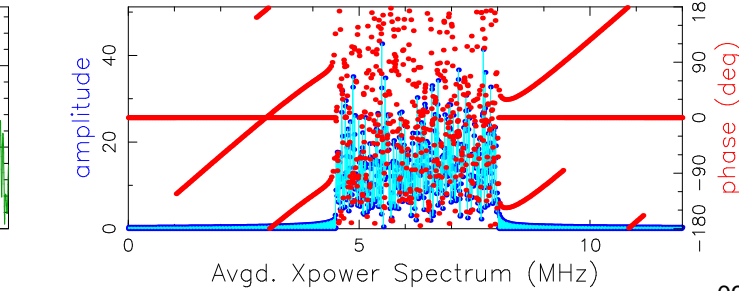
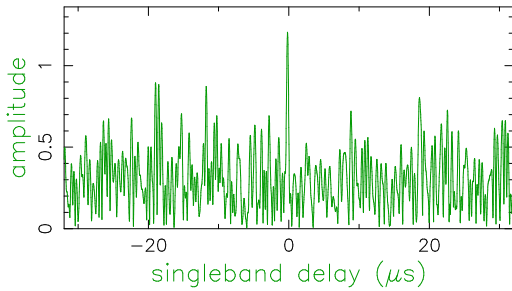
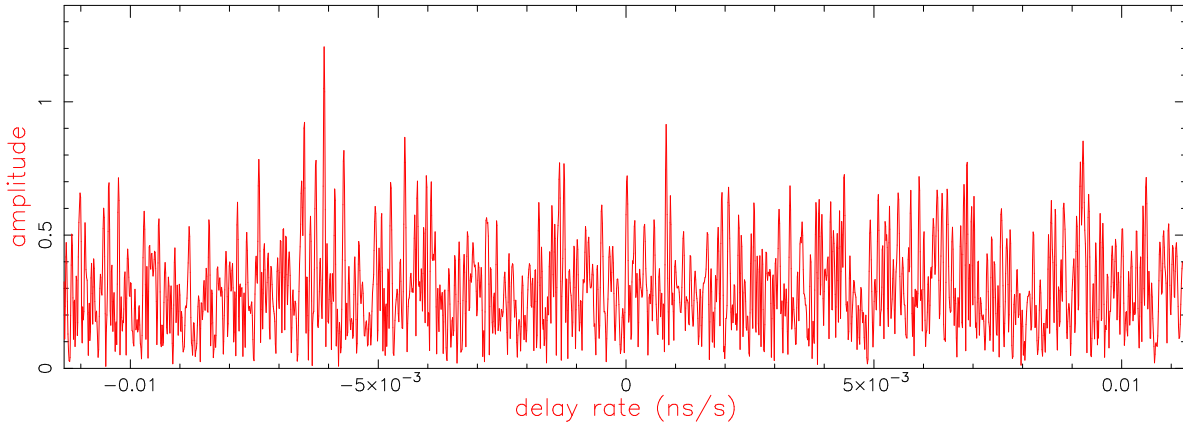
86227.00
-62.5
0.4
1574.7
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UR
o W03UL

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)	1.75608995439E+03	Apriori delay (usec)	1.75530524212E+03	Resid mbdelay (usec)	4.46366E-06	+/-	5.3E-03
Sband delay (usec)	1.75608995145E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	7.84709E-01	+/-	5.3E-03
Phase delay (usec)	1.75530524011E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.01632E-06	+/-	4.3E-07
Delay rate (us/s)	-4.54625525690E-01	Apriori rate (us/s)	-4.54628182115E-01	Resid rate (us/s)	2.65643E-06	+/-	2.5E-09
Total phase (deg)	-319.3	Apriori accel (us/s/s)	-5.43245599800E-06	Resid phase (deg)	-159.6	+/-	13.3

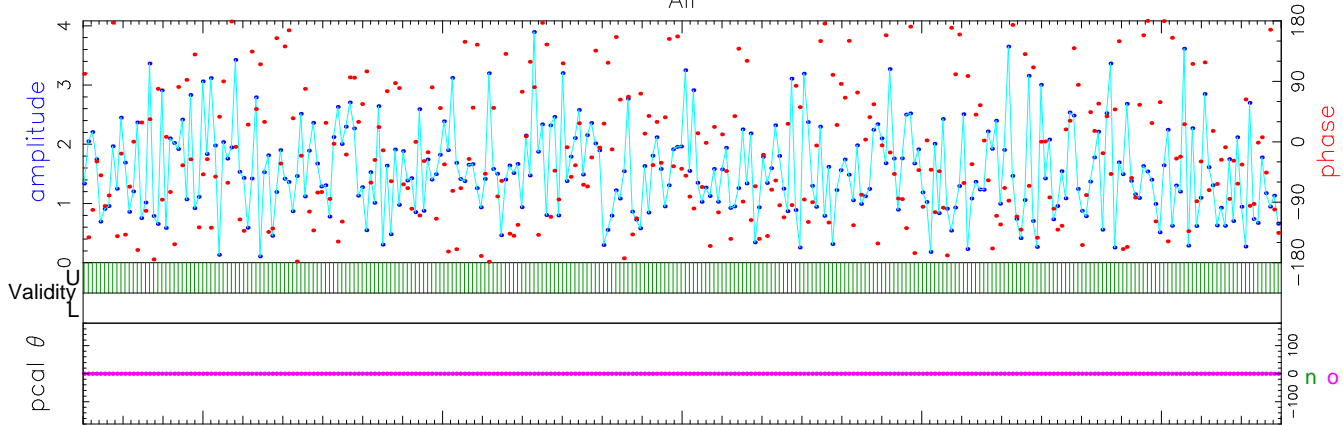
ph/seg (deg)	RMS 91.9	Theor. 113.4	Amplitude Search (2048X8)	1.220 +/- 0.141	1.189	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.2	198.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.522	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.210	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
n: az 152.7 el 81.8 pa -23.5			o: az 86.9 el 64.6 pa -74.8		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8



SNR 8.7
Int time 299.972
Amp 1.361
Phase 336.9
PFD 4.0e-11
Delays (us)
SBD -0.185133
MBD -0.000006
Fringe rate (Hz)
-0.523934
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051938
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-61.3
0.4
1528.1
U/L 586/0
n 0
o 0
n:o 0:0
o 0
n 1000
o 1000
n W03UL
o W03UL

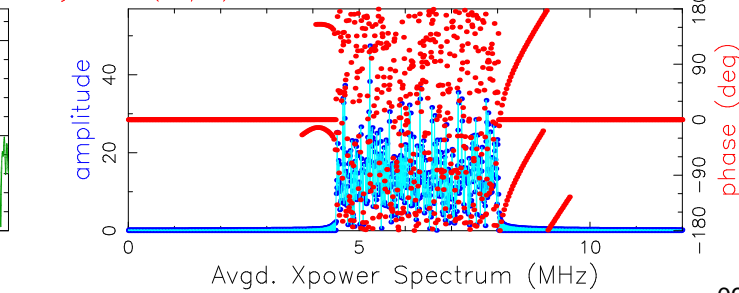
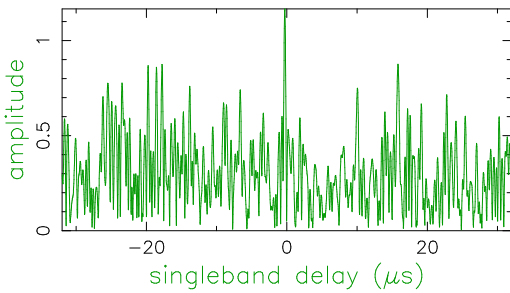
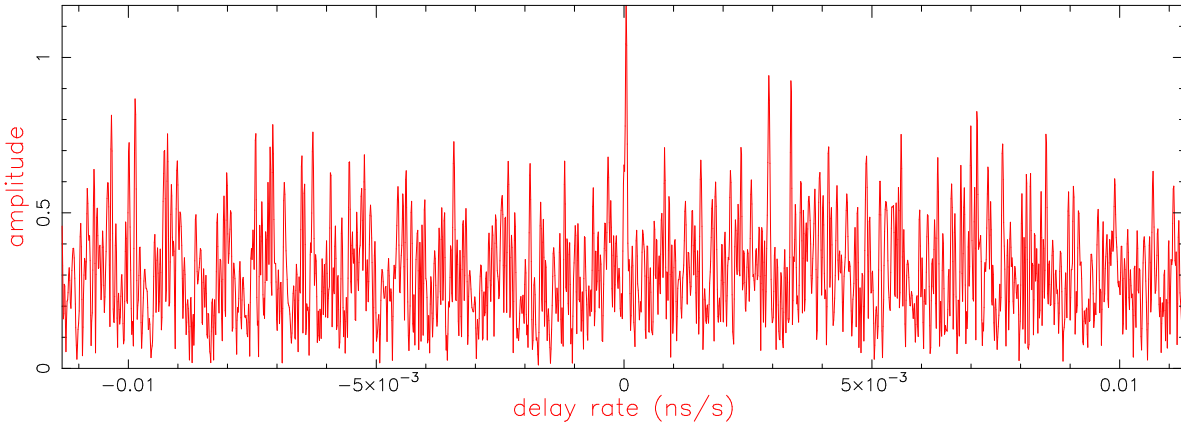
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.75512010890E+03	Apriori delay (usec)	1.75530524212E+03	Resid mbdelay (usec)	-5.59129E-06	+/- 5.3E-03
Sband delay (usec)	1.75512010879E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-1.85133E-01	+/- 5.3E-03
Phase delay (usec)	1.75530524015E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.97523E-06	+/- 4.2E-07
Delay rate (us/s)	-4.54634264469E-01	Apriori rate (us/s)	-4.54628182115E-01	Resid rate (us/s)	-6.08235E-06	+/- 2.4E-09
Total phase (deg)	177.2	Apriori accel (us/s/s)	-5.43245599800E-06	Resid phase (deg)	336.9	+/- 13.1

ph/seg (deg)	RMS 91.0	Theor. 112.2	Amplitude Search (2048X8)	1.361 +/- 0.156	1.173	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.8	195.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.606	Bits/sample: 2x2	ion window (TEC)	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.352	Sample rate(MISamp/s): 24		ion window (TEC) 0.00 0.00

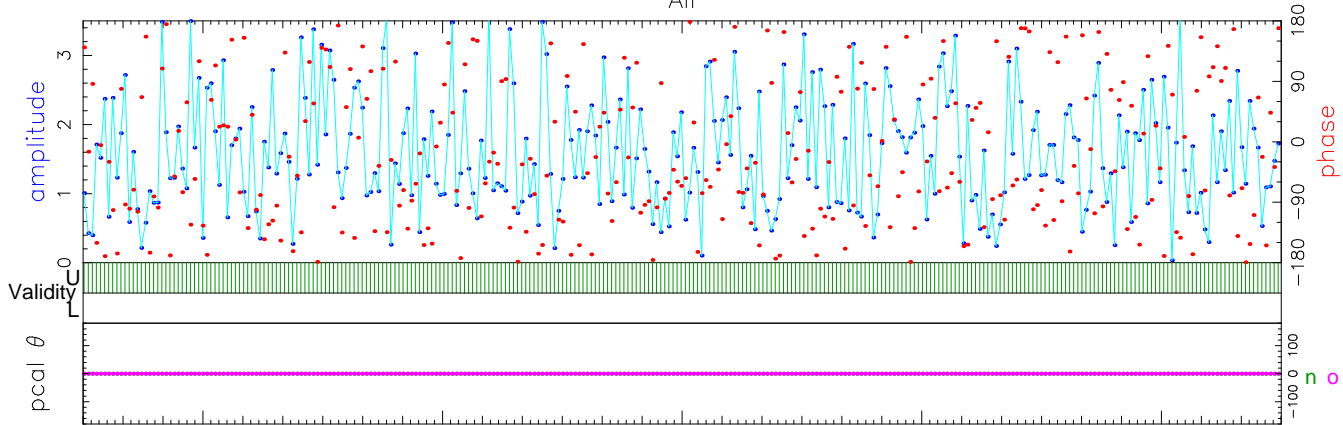
n: az 152.7 el 81.8 pa -23.5 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 3149.195 134.820 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/no..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/no.W.89.1T5GU7

Fringe quality 8



SNR 8.5
Int time 299.972
Amp 1.167
Phase 322.3
PFD 4.5e-10
Delays (us)
SBD -0.290059
MBD 0.000000
Fringe rate (Hz)
0.004080
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



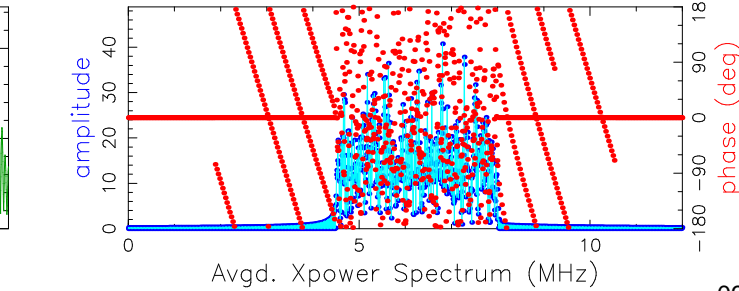
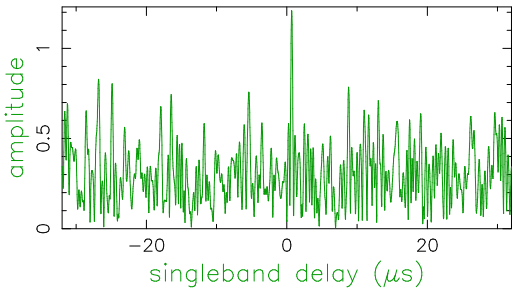
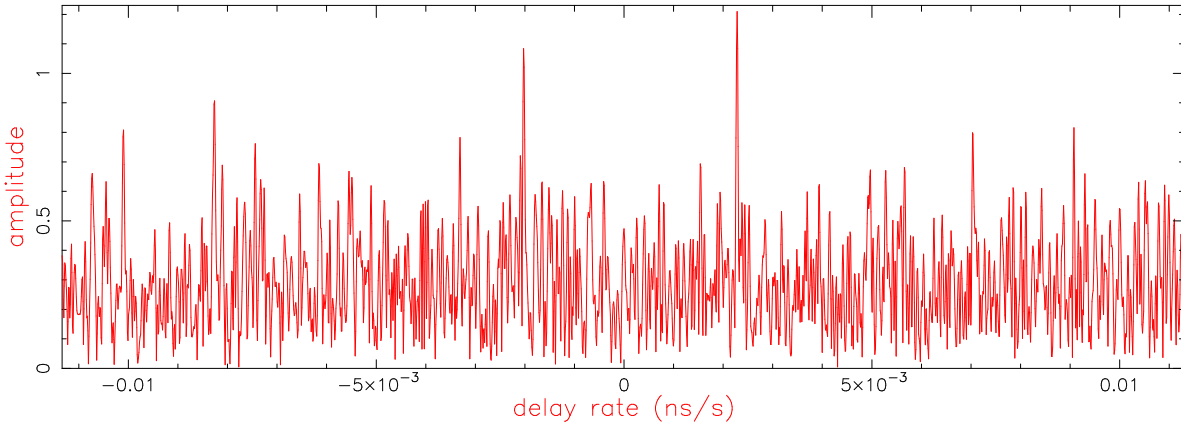
86227.00
-122.3
0.3
1523.1
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UR
o W03UR

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)	1.75501518219E+03	Apriori delay (usec)	1.75530524212E+03	Resid mbdelay (usec)	2.14890E-08	+/-	5.4E-03
Sband delay (usec)	1.75501518345E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-2.90059E-01	+/-	5.4E-03
Phase delay (usec)	1.75530523818E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.94516E-06	+/-	4.4E-07
Delay rate (us/s)	-4.54628134746E-01	Apriori rate (us/s)	-4.54628182115E-01	Resid rate (us/s)	4.73692E-08	+/-	2.5E-09
Total phase (deg)	162.6	Apriori accel (us/s/s)	-5.43245599800E-06	Resid phase (deg)	322.3	+/-	13.5

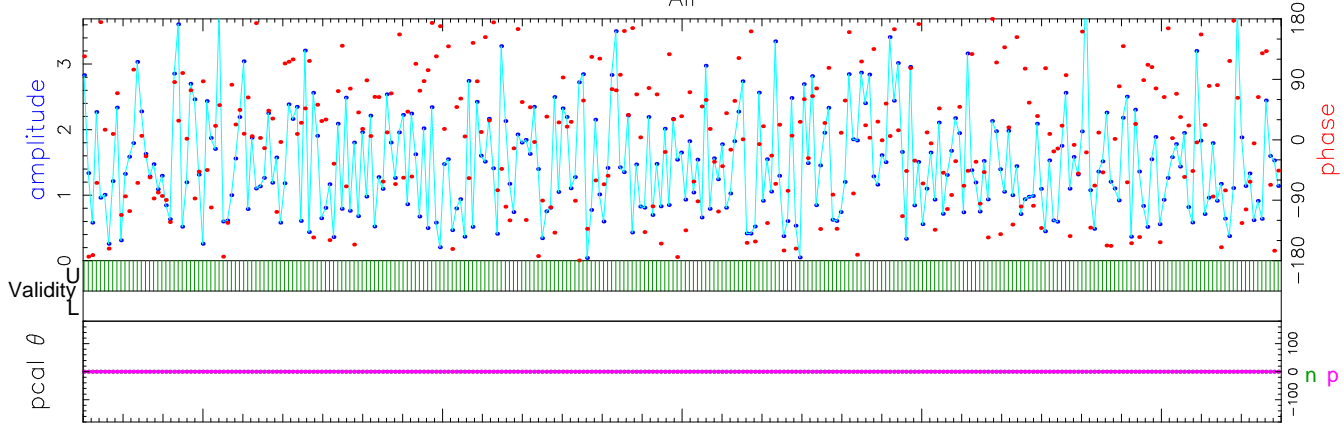
ph/seg (deg)	RMS 93.9	Theor. 115.9	Amplitude Search (2048X8)	1.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.6	202.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.528	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.159	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 152.7 el 81.8 pa -23.5	o: az 86.9 el 64.6 pa -74.8		u,v (fr/asec) 3149.195 134.820		Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.8
Int time 299.972
Amp 1.230
Phase -57.1
PFD 3.1e-11
Delays (us)
SBD 0.692276
MBD 0.000007
Fringe rate (Hz)
0.196595
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
24.6
0.4
1570.2
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UR

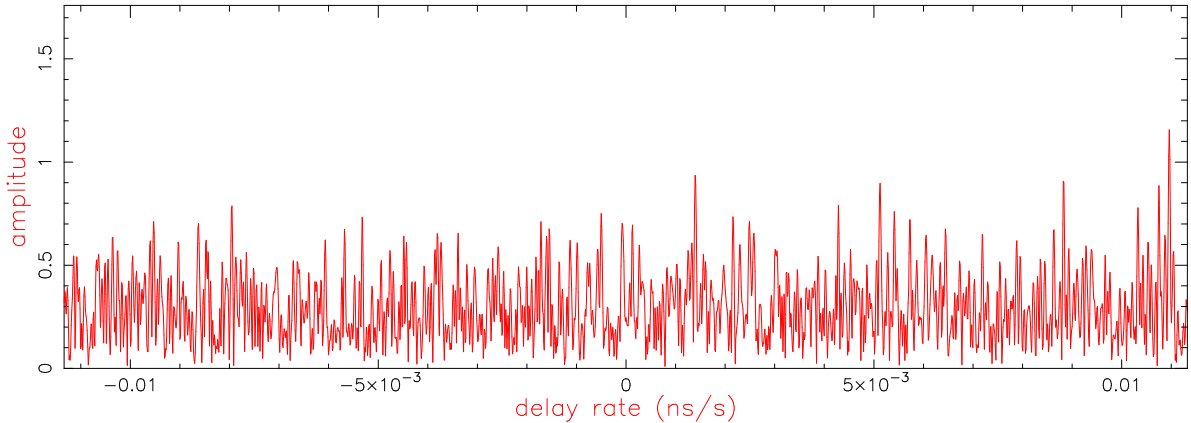
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.94527857774E+02	Apriori delay (usec)	6.93835585367E+02	Resid mbdelay (usec)	6.64330E-06	+/-	5.2E-03
Sband delay (usec)	6.94527861367E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	6.92276E-01	+/-	5.2E-03
Phase delay (usec)	6.93835586162E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.94664E-07	+/-	4.2E-07
Delay rate (us/s)	-3.04737339769E-01	Apriori rate (us/s)	-3.04739622037E-01	Resid rate (us/s)	2.28227E-06	+/-	2.4E-09
Total phase (deg)	-300.7	Apriori accel (us/s/s)	2.84112030100E-06	Resid phase (deg)	-57.1	+/-	13.1

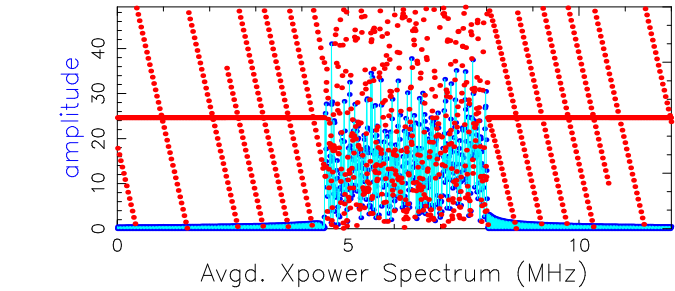
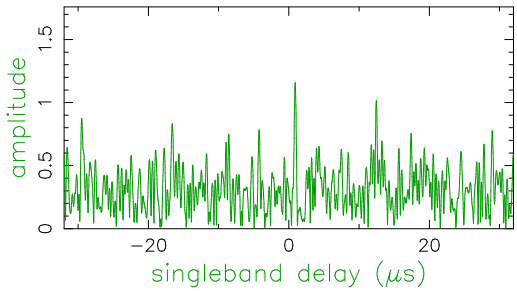
ph/seg (deg)	RMS 95.3	Theor. 111.8	Amplitude Search (2048X8)	1.230 +/- 0.140	1.203	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.1	195.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.525	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.222	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
n: az 152.7 el 81.8 pa -23.5	p: az 83.6 el 72.6 pa -84.9	u, v (fr/asec) 2117.870 888.806			nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/np..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/np.W.113.1T5GU7 simultaneous interpolator

Fringe quality 8

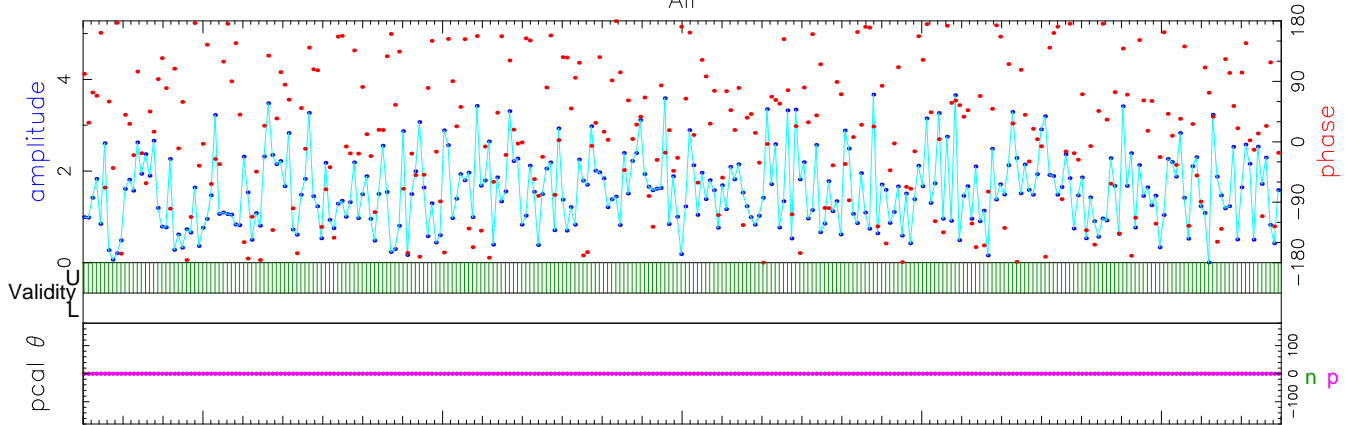


SNR 8.4
Int time 299.972
Amp 1.759
Phase -276.5
PFD 7.9e-10
Delays (us)
SBD 0.907103
MBD 0.000004
Fringe rate (Hz) 0.943338
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



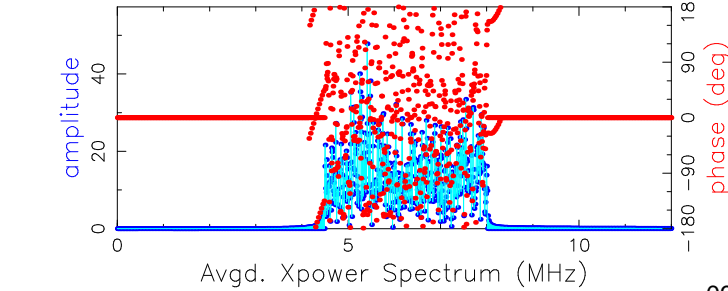
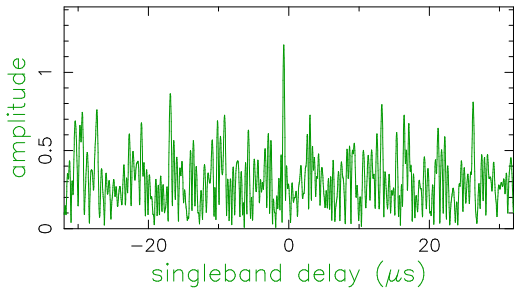
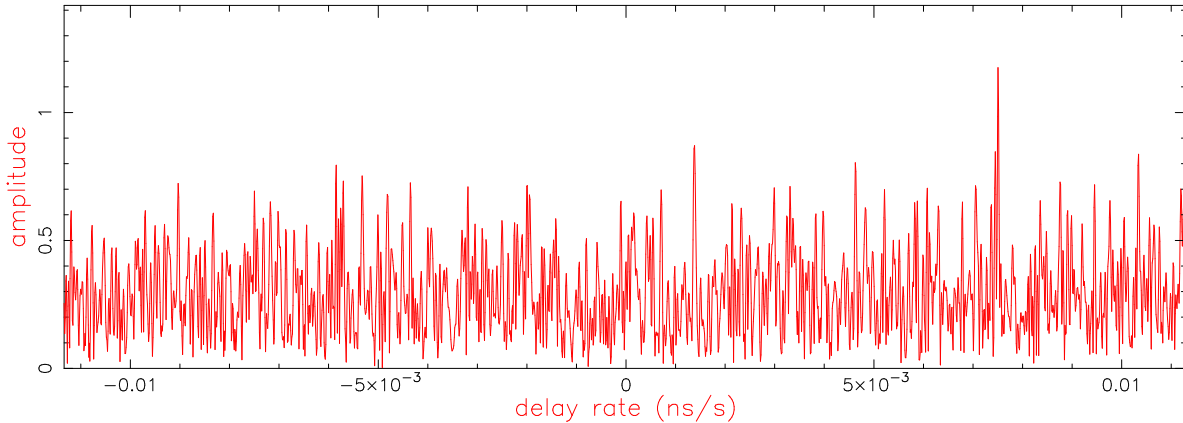
86227.00
53.7
0.5
1580.5
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UR

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)	6.94742683784E+02	Apriori delay (usec)	6.93835585367E+02	Resid mbdelay (usec)	4.35177E-06	+/-	5.5E-03
Sband delay (usec)	6.94742688034E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	9.07103E-01	+/-	5.5E-03
Phase delay (usec)	6.93835587097E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.73026E-06	+/-	4.4E-07
Delay rate (us/s)	-3.04728670821E-01	Apriori rate (us/s)	-3.04739622037E-01	Resid rate (us/s)	1.09512E-05	+/-	2.5E-09
Total phase (deg)	-160.1	Apriori accel (us/s/s)	2.84112030100E-06	Resid phase (deg)	-276.5	+/-	13.6

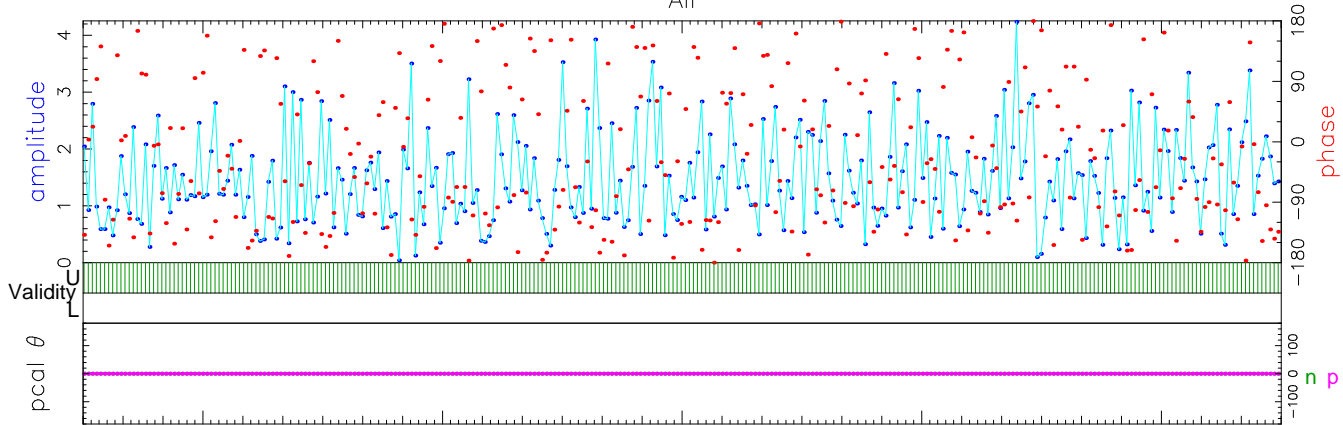
ph/seg (deg)	93.8	Theor.	116.8	Amplitude	1.759 +/- 0.210	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.5	Search (2048X8)	1.153	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.778	Inc. frq. avg.	1.744	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	Inc. frq. avg.	1.744			Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 152.7 el 81.8 pa -23.5		p: az 83.6 el 72.6 pa -84.9		u,v (fr/asec)	2117.870 888.806	nlags: 1536 t_cohere infinite	simultaneous interpolator

Fringe quality 8



SNR 8.5
Int time 299.972
Amp 1.419
Phase 189.4
PFD 2.4e-10
Delays (us)
SBD -0.722003
MBD 0.000004
Fringe rate (Hz)
0.645622
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-104.0
0.4
1502.3
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UL

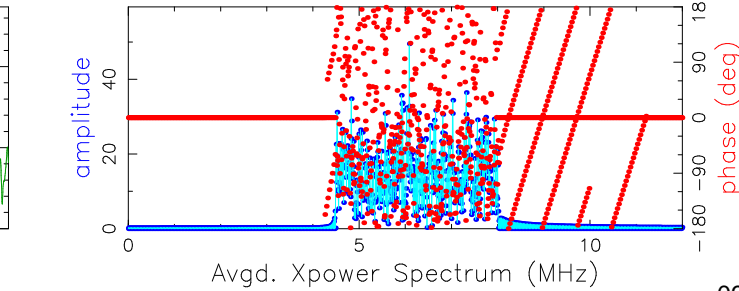
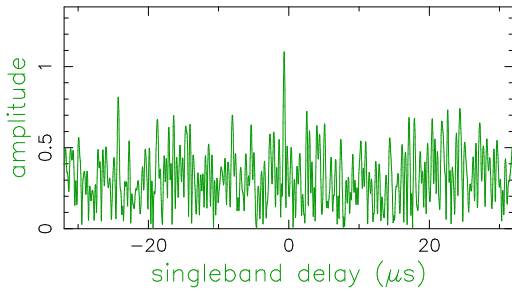
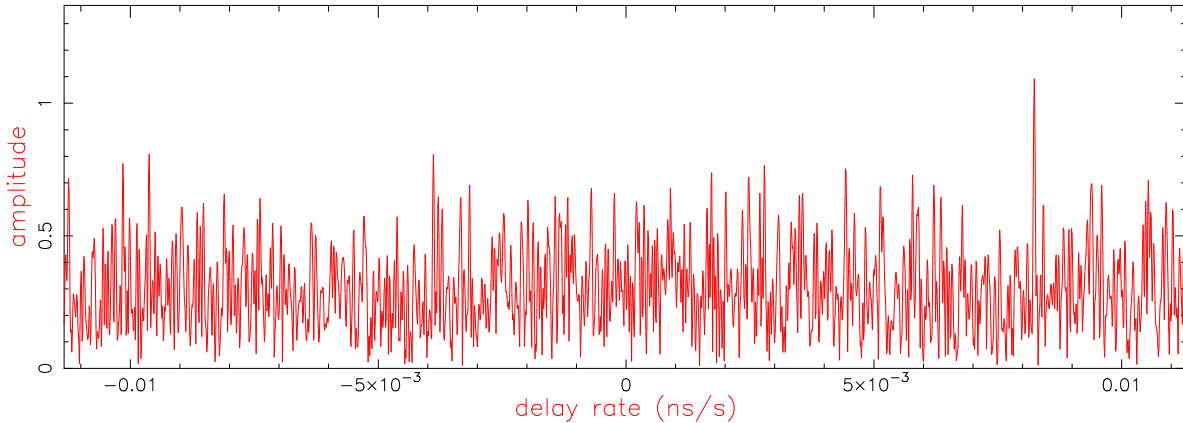
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.93113577004E+02	Apriori delay (usec)	6.93835585367E+02	Resid mbdelay (usec)	4.46310E-06	+/-	5.4E-03
Sband delay (usec)	6.93113582700E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-7.22003E-01	+/-	5.4E-03
Phase delay (usec)	6.93835582012E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.35523E-06	+/-	4.3E-07
Delay rate (us/s)	-3.04732127001E-01	Apriori rate (us/s)	-3.04739622037E-01	Resid rate (us/s)	7.49504E-06	+/-	2.5E-09
Total phase (deg)	305.9	Apriori accel (us/s/s)	2.84112030100E-06	Resid phase (deg)	189.4	+/-	13.4

ph/seg (deg)	RMS 94.5	Theor. 114.9	Amplitude Search (2048X8)	1.419 +/- 0.167	1.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.4	200.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.595	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.407	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

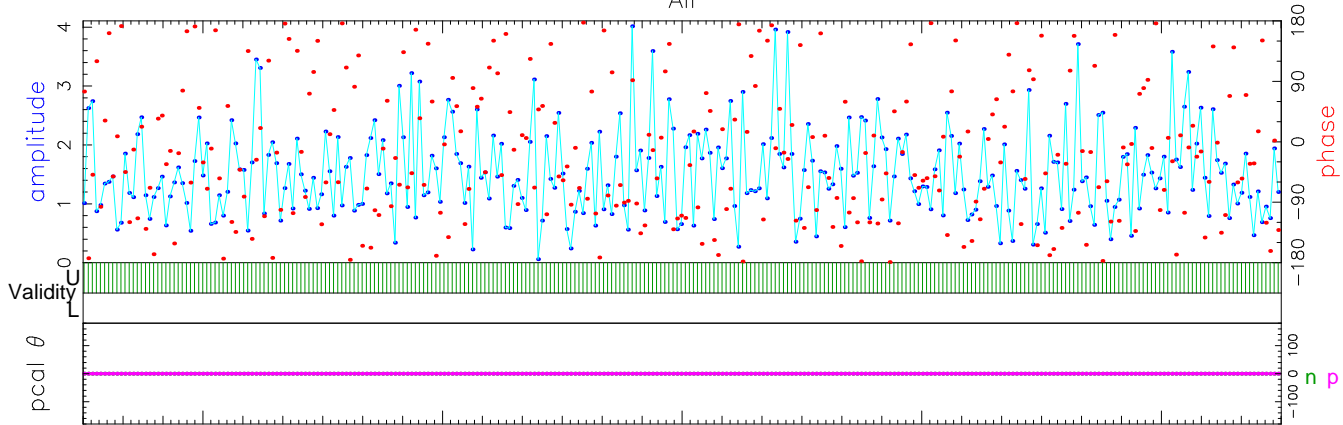
n: az 152.7 el 81.8 pa -23.5 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 2117.870 888.806 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/np..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/np.W.140.1T5GU7

Fringe quality 8



SNR 7.9
Int time 299.972
Amp 1.369
Phase 228.6
PFD 4.0e-08
Delays (us)
SBD -0.664571
MBD 0.000005
Fringe rate (Hz)
0.708718
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-65.8
0.4
1505.1
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UL

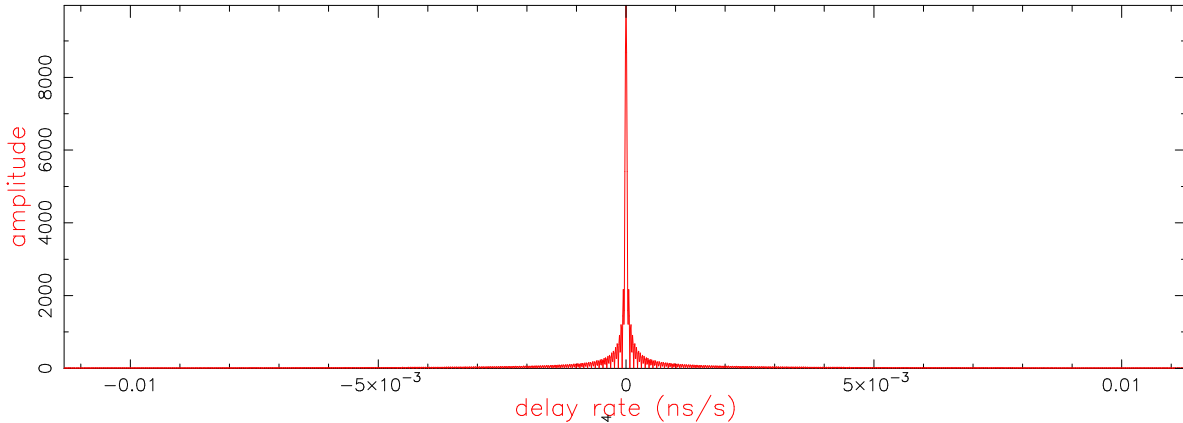
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	6.93171018596E+02	Apriori delay (usec)	6.93835585367E+02	Resid mbdelay (usec)	4.65116E-06	+/-	5.8E-03
Sband delay (usec)	6.93171014700E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-6.64571E-01	+/-	5.8E-03
Phase delay (usec)	6.93835583246E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.12151E-06	+/-	4.7E-07
Delay rate (us/s)	-3.04731394529E-01	Apriori rate (us/s)	-3.04739622037E-01	Resid rate (us/s)	8.22751E-06	+/-	2.7E-09
Total phase (deg)	345.1	Apriori accel (us/s/s)	2.84112030100E-06	Resid phase (deg)	228.6	+/-	14.5

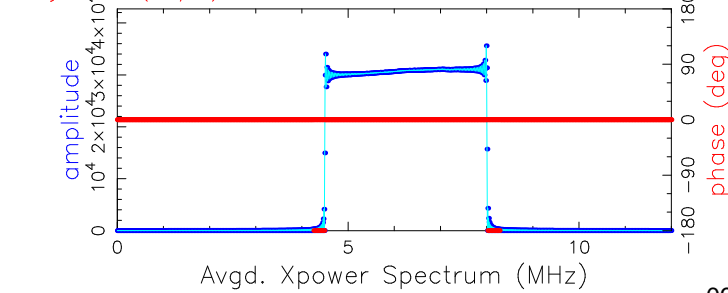
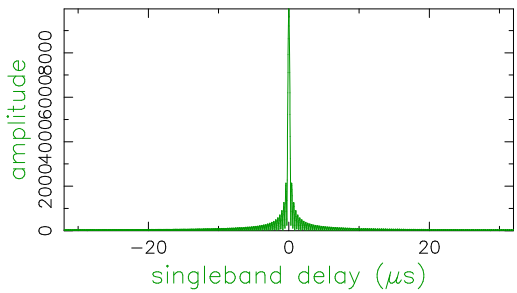
ph/seg (deg)	RMS 92.1	Theor. 123.9	Amplitude Search (2048X8)	1.369 +/- 0.173	1.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.0	216.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.574	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.358	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011

n: az 152.7 el 81.8 pa -23.5 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 2117.870 888.806 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/np..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/np.W.97.1T5GU7

Fringe quality 5

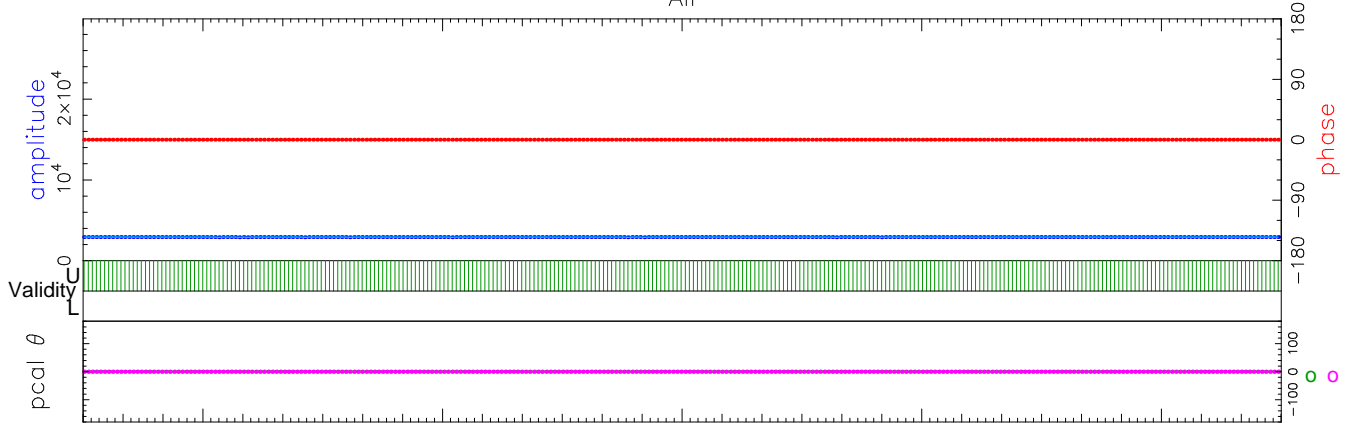


SNR 72348.2
Int time 299.974
Amp 9977.746
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051939
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
0.2
2923.2
1537.0
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UL
o W03UL

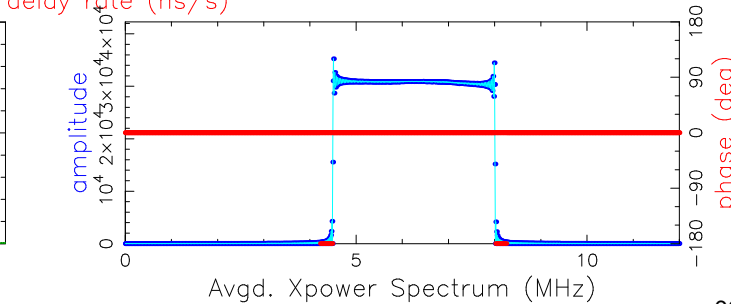
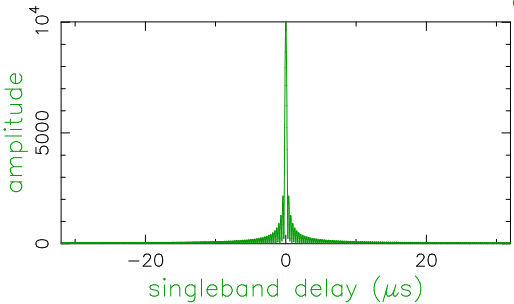
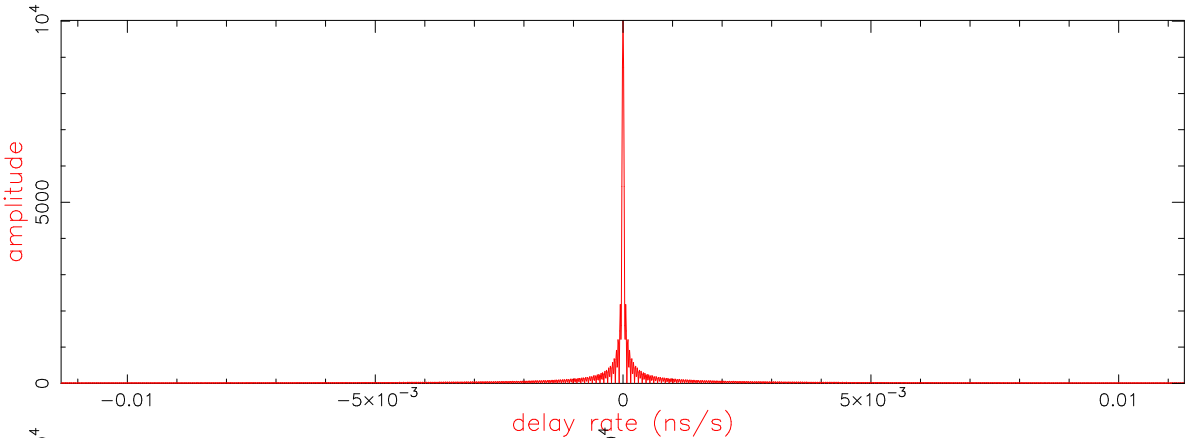
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.95195240470E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.64534E-06	+/- 6.4E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.4E-07
Phase delay (usec)	7.17456360410E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.17456E-09	+/- 5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.9E-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	9977.746 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	9977.746	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2923.168	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9977.746	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

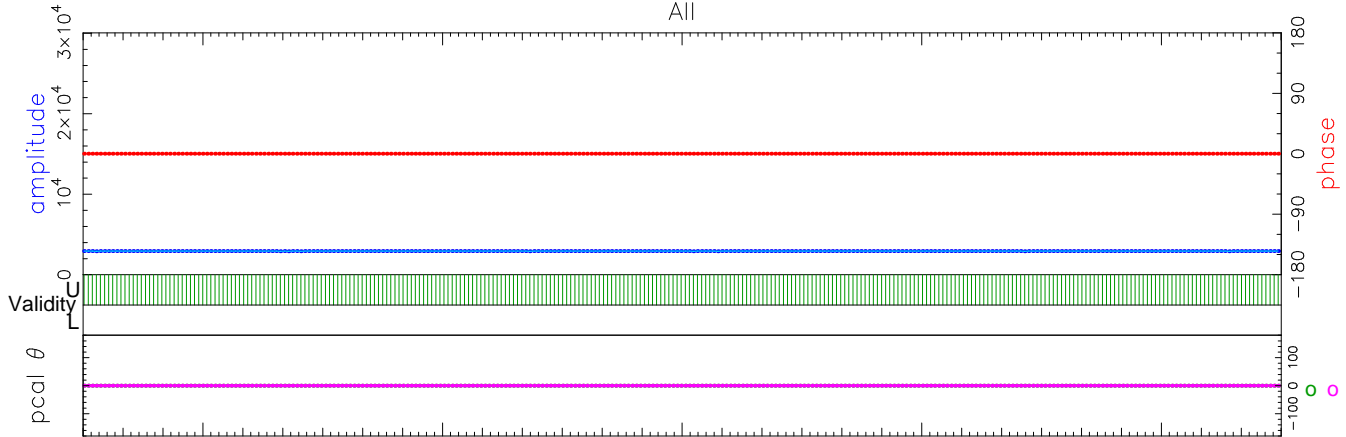
o: az 86.9 el 64.6 pa -74.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/oo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/oo.W.102.1T5GU7



Fringe quality 5
SNR 72646.5
Int time 299.974
Amp 10018.883
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



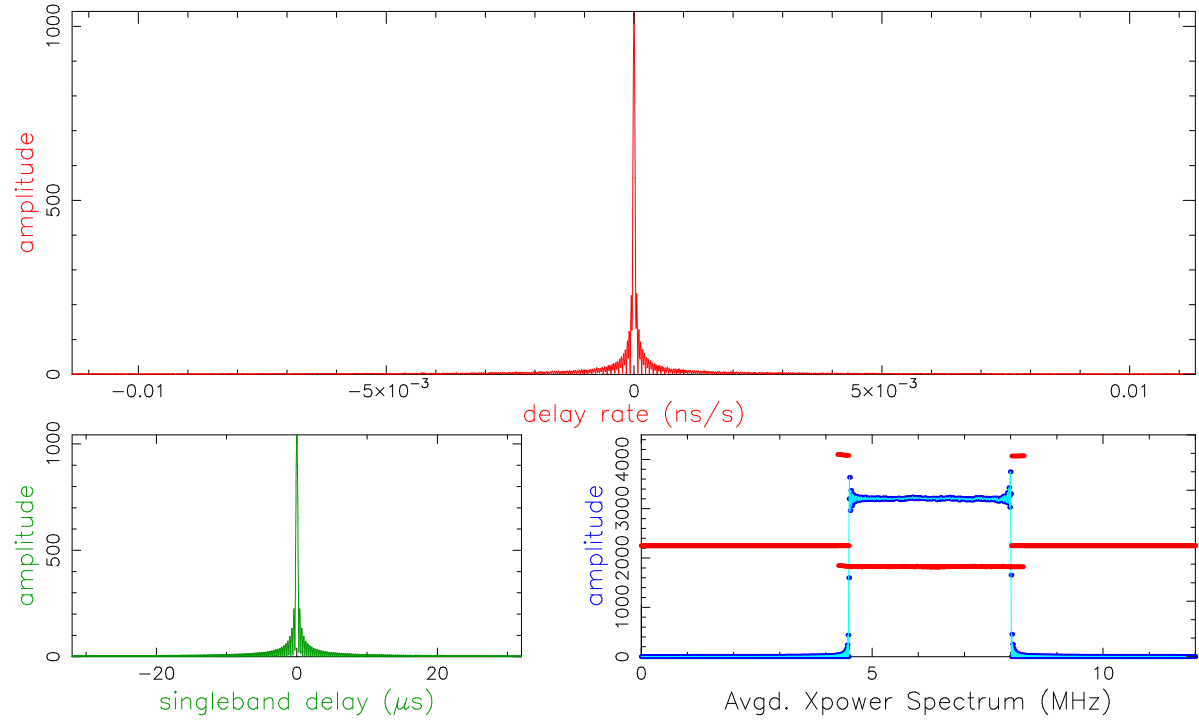
86227.00
0.1
2935.2
1537.0
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UR
o W03UR

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)	-4.35487724263E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.35488E-06	+/-	6.3E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	4.70169008085E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.70169E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-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	10018.883 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	10018.883	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2935.219	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10018.883	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

o: az 86.9 el 64.6 pa -74.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/oo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/oo.W.107.1T5GU7

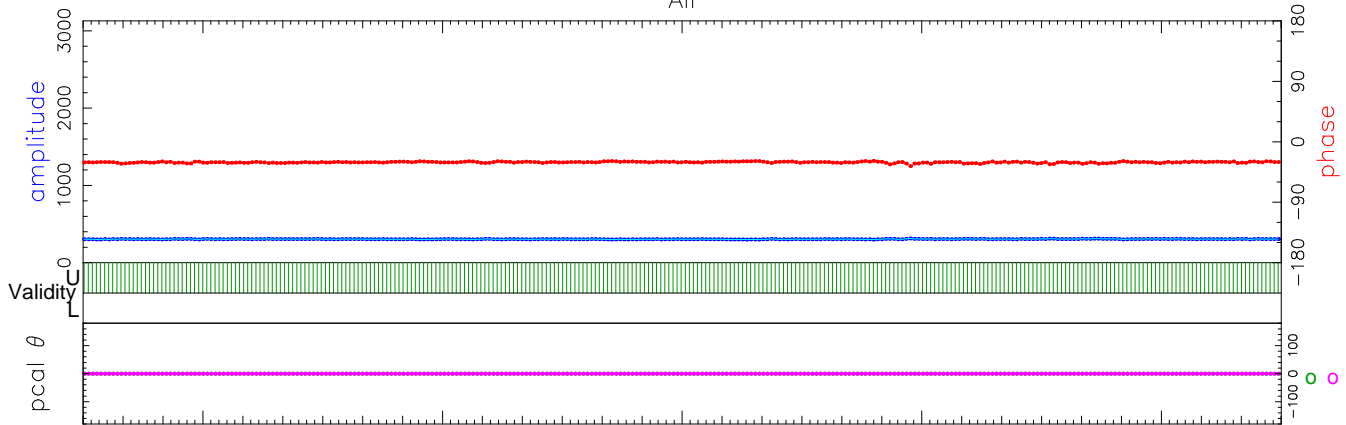


Fringe quality 5

SNR 7563.0
Int time 299.974
Amp 1043.036
Phase -76.3
PFD 0.0e+00
Delays (us)
SBD 0.001460
MBD -0.000007
Fringe rate (Hz)
-0.000014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



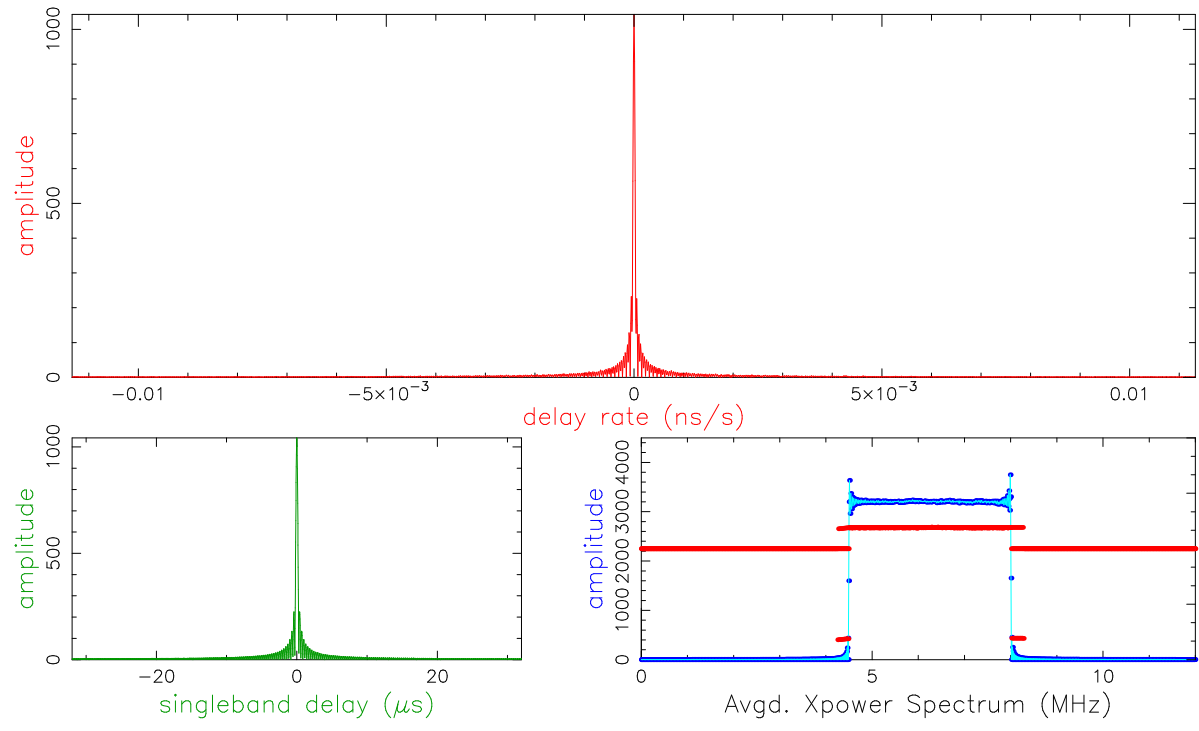
86227.00
-30.5
305.6
1537.1
U/L 586/0
o 0
o 0
o:o 0:0
o:o 0:0
o 1000
o 1000
o W03UL
o W03UR

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)	1.45440847994E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.85075E-06	+/-	6.1E-06
Sband delay (usec)	1.46000000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.46000E-03	+/-	6.1E-06
Phase delay (usec)	-9.83097370454E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.83097E-07	+/-	4.9E-10
Delay rate (us/s)	-1.58008349167E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.58008E-10	+/-	2.8E-12
Total phase (deg)	-76.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-76.3	+/-	0.0

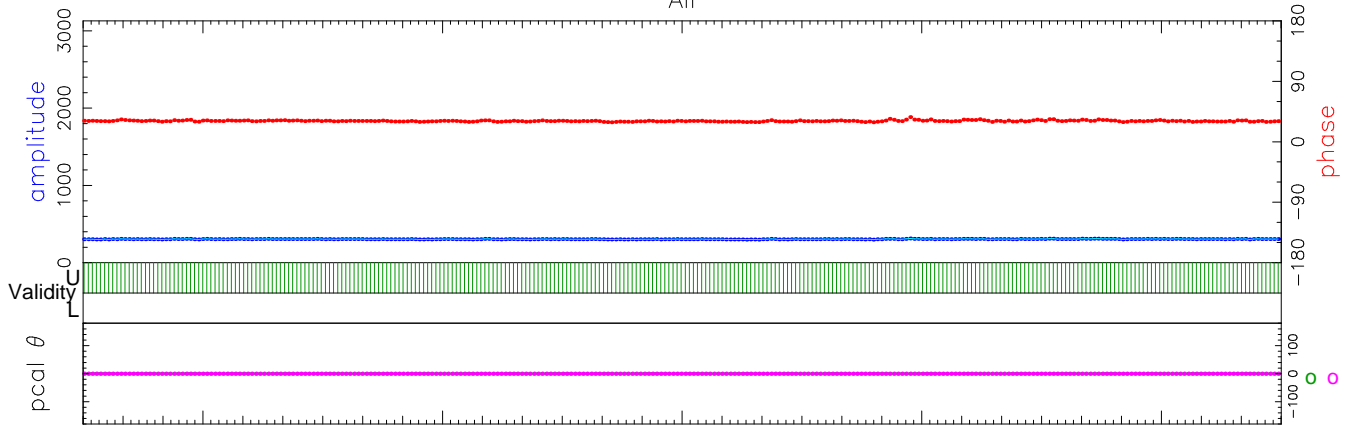
ph/seg (deg)	1.0	0.1	Amplitude	1043.036 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.2	Search (2048X8)	1042.962	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%)	70.7	0.0	Inc. seg. avg.	305.605	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg.	1042.991	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

o: az 86.9 el 64.6 pa -74.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/oo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/oo.W.129.1T5GU7



Fringe quality 5
SNR 7563.0
Int time 299.974
Amp 1043.036
Phase 76.4
PFD 0.0e+00
Delays (us)
SBD -0.001460
MBD -0.000007
Fringe rate (Hz)
0.000014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



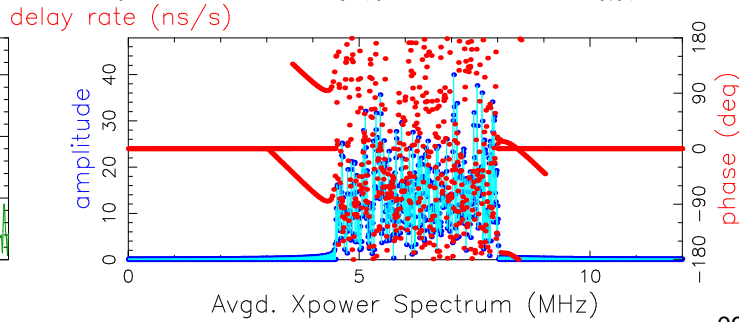
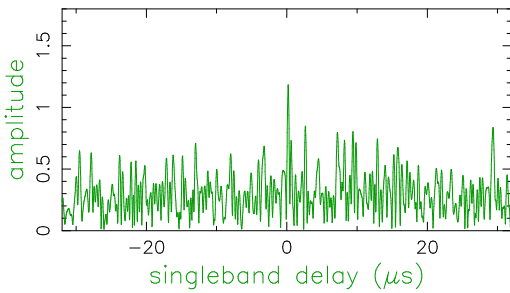
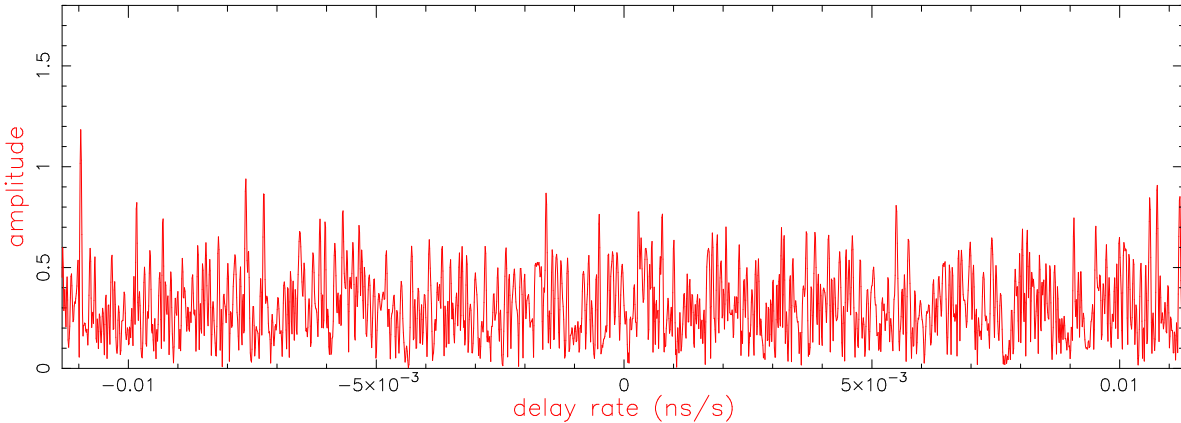
86227.00
31.0
305.6
1536.9
U/L 586/0
o 0
o 0
o:o 0:0
o:o 0:0
o 1000
o 1000
o W03UR
o W03UL

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)	-1.45688373711E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.22180E-06	+/-	6.1E-06
Sband delay (usec)	-1.46000000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.46000E-03	+/-	6.1E-06
Phase delay (usec)	9.98290630132E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.98291E-07	+/-	4.9E-10
Delay rate (us/s)	1.58008349167E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.58008E-10	+/-	2.8E-12
Total phase (deg)	76.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	76.4	+/-	0.0

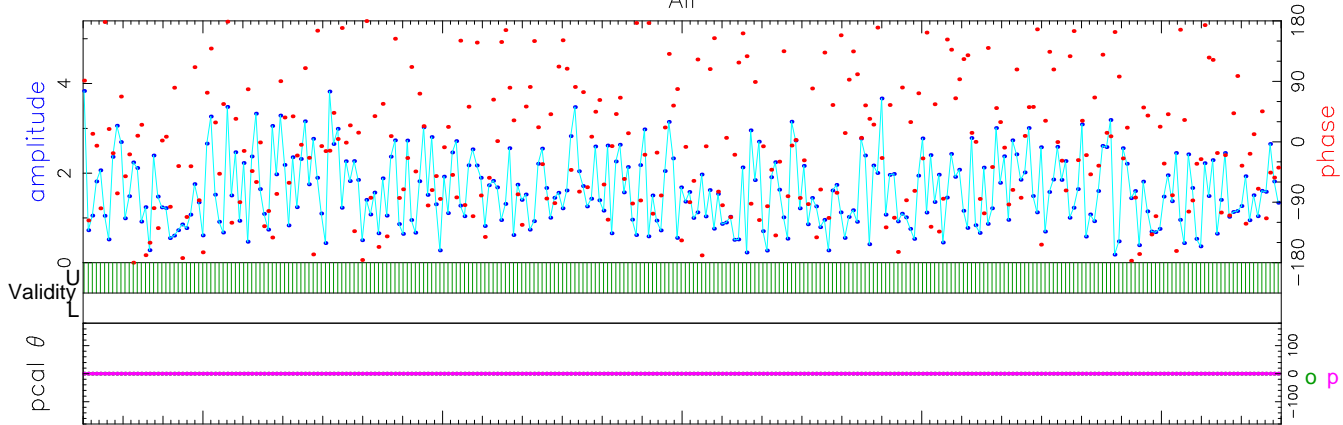
ph/seg (deg) 1.0 0.1 Amplitude 1043.036 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.2 Search (2048X8) 1042.962 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 305.605 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
o: az 86.9 el 64.6 pa -74.8 o: az 86.9 el 64.6 pa -74.8 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/oo..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/oo.W.134.1T5GU7 simultaneous interpolator

Fringe quality 8



SNR 8.6
Int time 299.973
Amp 1.800
Phase -301.8
PFD 1.5e-10
Delays (us)
SBD 0.193215
MBD -0.000007
Fringe rate (Hz)
-0.943205
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051940
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-10.1
0.5
1546.3
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UL

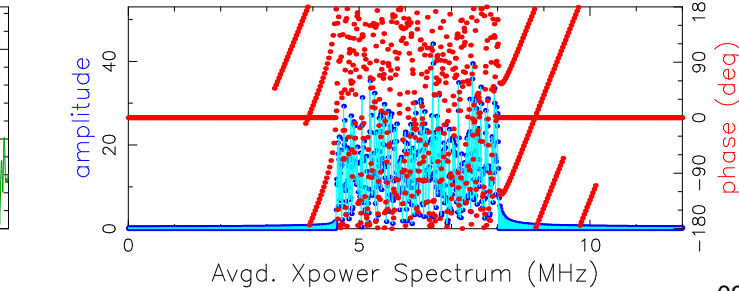
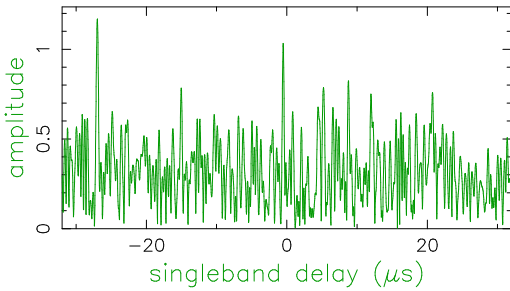
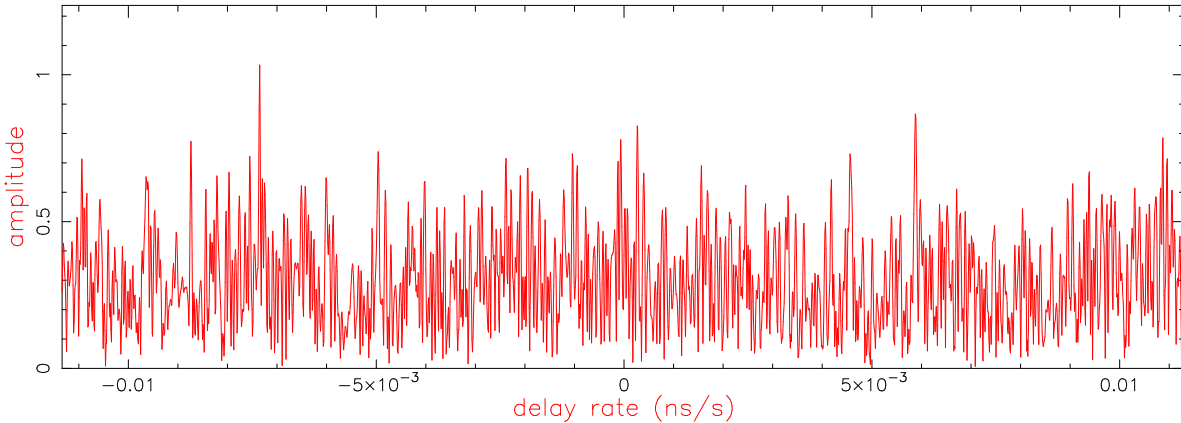
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.06127644086E+03	Apriori delay (usec)	-1.06146965675E+03	Resid mbdelay (usec)	-6.65035E-06	+/-	5.3E-03
Sband delay (usec)	-1.06127644209E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	1.93215E-01	+/-	5.3E-03
Phase delay (usec)	-1.06146965708E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.24177E-07	+/-	4.3E-07
Delay rate (us/s)	1.49877610398E-01	Apriori rate (us/s)	1.49888560078E-01	Resid rate (us/s)	-1.09497E-05	+/-	2.5E-09
Total phase (deg)	-25.6	Apriori accel (us/s/s)	8.27357629900E-06	Resid phase (deg)	-301.8	+/-	13.3

ph/seg (deg)	RMS 93.1	Theor. 114.1	Amplitude Search (2048X8)	1.800 +/- 0.210	1.184	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.1	199.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.822	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.787	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				o, u, v (fr/asec)	-1031.325 753.986	ion window (TEC)	0.00 0.00

o: az 86.9 el 64.6 pa -74.8 p: az 83.6 el 72.6 pa -84.9 u, v (fr/asec) -1031.325 753.986 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/op..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/op.W.111.1T5GU7

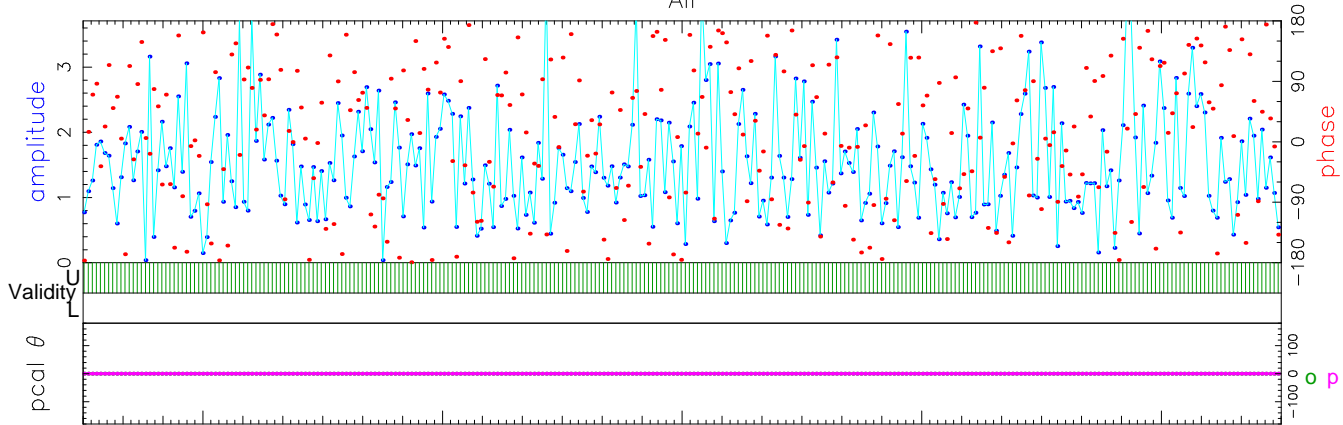
Fringe quality 8



SNR 7.5
Int time 299.973
Amp 1.237
Phase 8.8
PFD 9.9e-07
Delays (us)
SBD -0.514872
MBD -0.000006
Fringe rate (Hz)
-0.632548
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
83.3
0.4
241.8
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UR

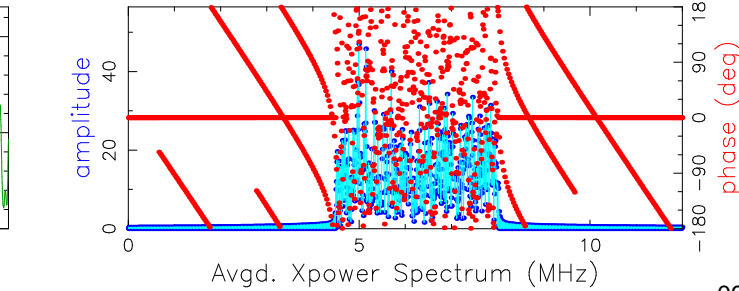
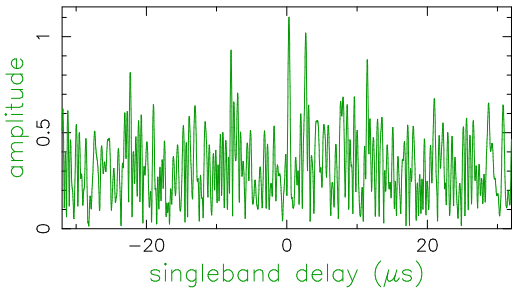
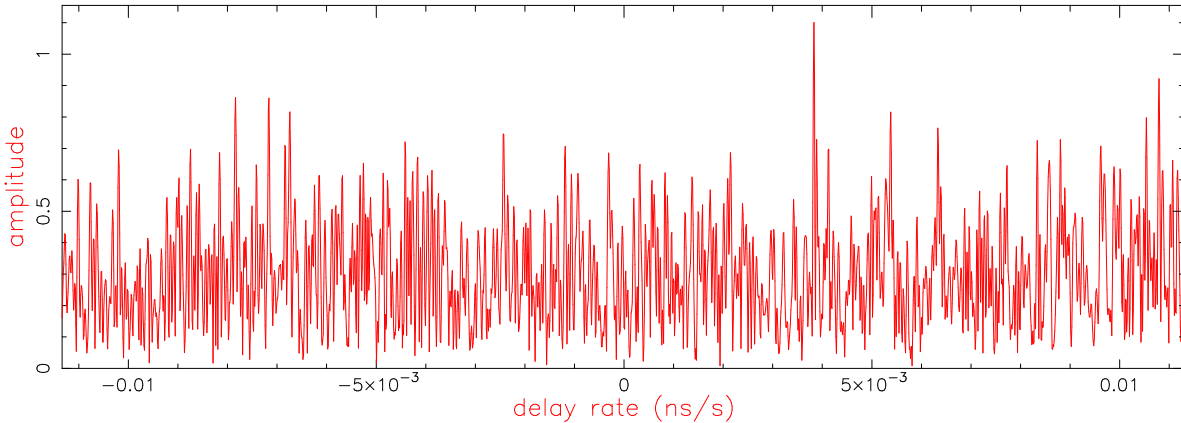
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.06198452435E+03	Apriori delay (usec)	-1.06146965675E+03	Resid mbdelay (usec)	-5.65985E-06	+/-	6.1E-03
Sband delay (usec)	-1.06198452875E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-5.14872E-01	+/-	6.1E-03
Phase delay (usec)	-1.06146965407E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.68724E-06	+/-	4.9E-07
Delay rate (us/s)	1.49881216825E-01	Apriori rate (us/s)	1.49888560078E-01	Resid rate (us/s)	-7.34325E-06	+/-	2.8E-09
Total phase (deg)	285.0	Apriori accel (us/s/s)	8.27357629900E-06	Resid phase (deg)	8.8	+/-	15.3

ph/seg (deg)	RMS 94.8	Theor. 130.8	Amplitude Search (2048X8)	1.237 +/- 0.165	1.013	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	94.1	228.3	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.6	Inc. seg. avg.	0.511	0.511	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	13.3	Inc. frq. avg.	1.225	1.225	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

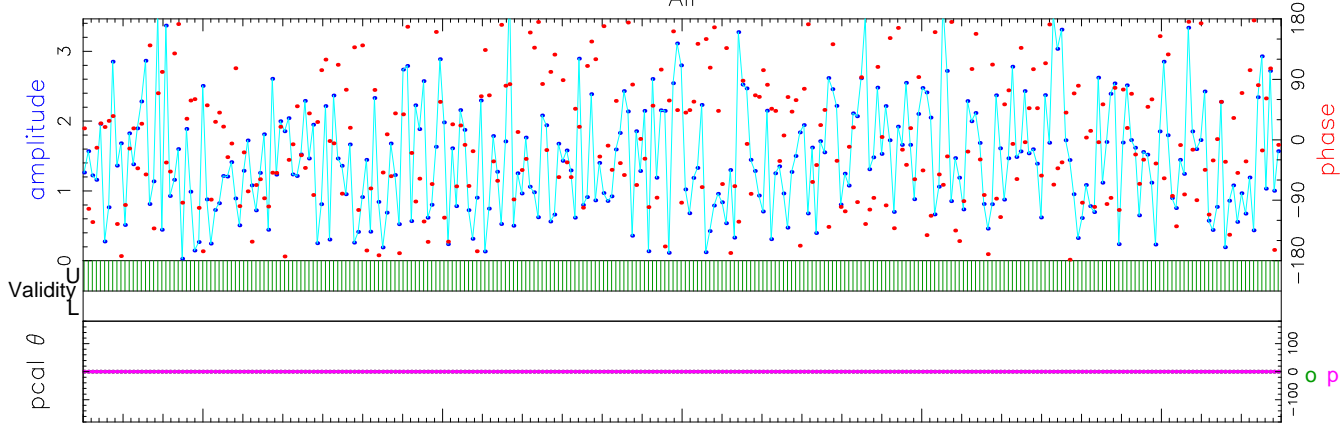
o: az 86.9 el 64.6 pa -74.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -1031.325 753.986 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/op..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/op.W.132.1T5GU7

Fringe quality 8



SNR 8.0
Int time 299.973
Amp 1.155
Phase -194.2
PFD 2.2e-08
Delays (us)
SBD 0.304793
MBD 0.000005
Fringe rate (Hz)
0.329857
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051944
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-8.2
0.3
1551.6
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UR

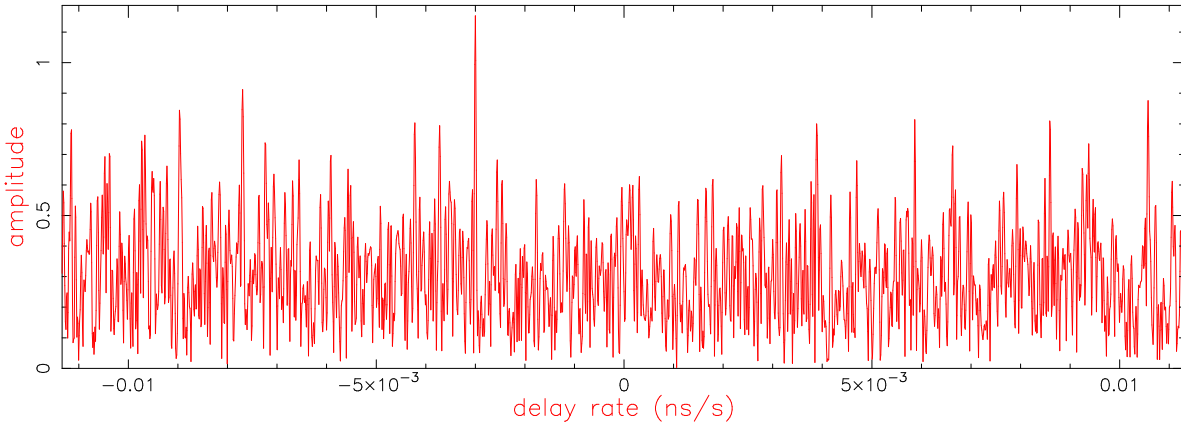
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.06116486354E+03	Apriori delay (usec)	-1.06146965675E+03	Resid mbdelay (usec)	4.69125E-06	+/-	5.8E-03
Sband delay (usec)	-1.06116486342E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	3.04793E-01	+/-	5.8E-03
Phase delay (usec)	-1.06146965702E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.65367E-07	+/-	4.6E-07
Delay rate (us/s)	1.49892389387E-01	Apriori rate (us/s)	1.49888560078E-01	Resid rate (us/s)	3.82931E-06	+/-	2.7E-09
Total phase (deg)	-278.0	Apriori accel (us/s/s)	8.27357629900E-06	Resid phase (deg)	-194.2	+/-	14.3

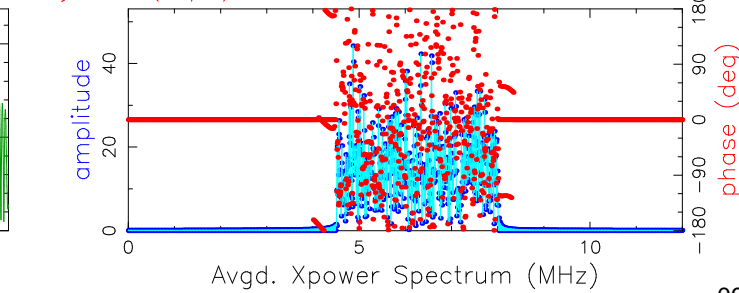
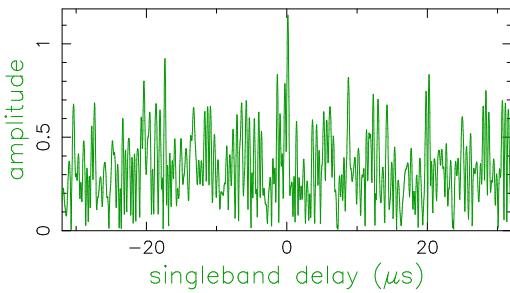
ph/seg (deg)	RMS 92.2	Theor. 122.8	Amplitude Search (2048X8)	1.155 +/- 0.145	1.090	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.6	214.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.465	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.145	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
o: az 86.9 el 64.6 pa -74.8		p: az 83.6 el 72.6 pa -84.9		u,v (fr/asec) -1031.325 753.986		ion window (TEC) 0.00 0.00	

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/op..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/op.W.141.1T5GU7 simultaneous interpolator

Fringe quality 8

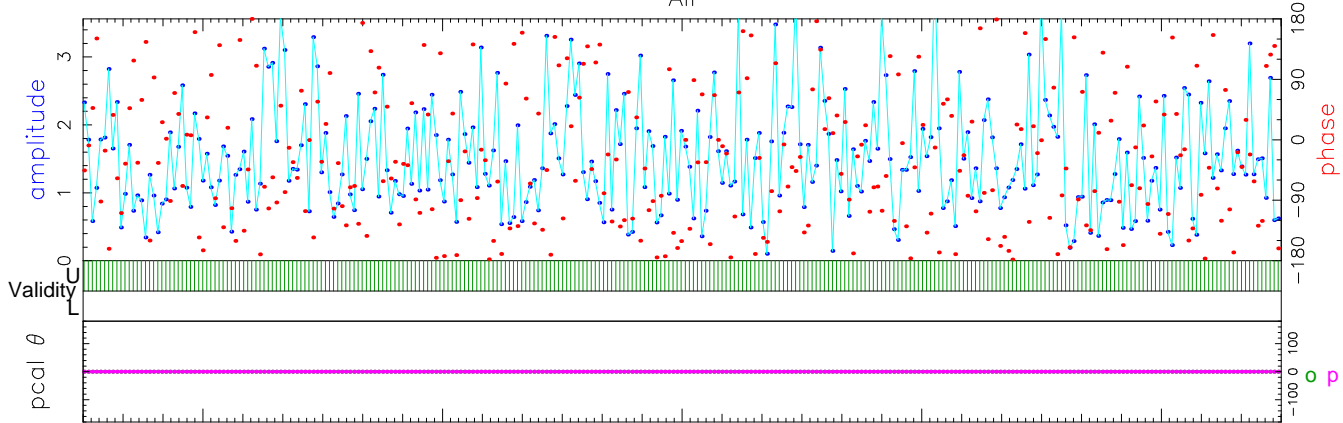


SNR 8.4
Int time 299.973
Amp 1.187
Phase -242.8
PFD 1.0e-09
Delays (us)
SBD 0.143400
MBD -0.000006
Fringe rate (Hz)
-0.258311
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051944
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-71.5
0.3
1543.9
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UL

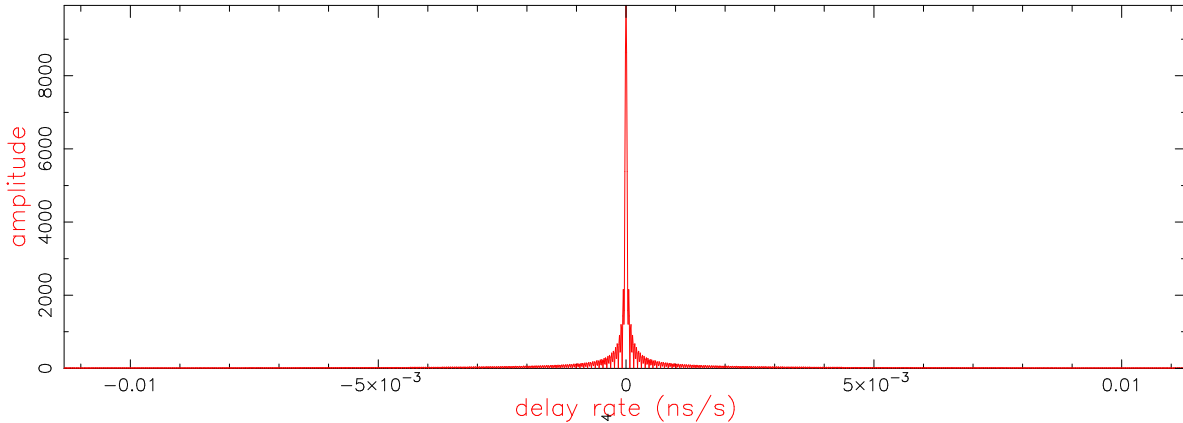
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.06132626246E+03	Apriori delay (usec)	-1.06146965675E+03	Resid mbdelay (usec)	-6.25976E-06	+/-	5.5E-03
Sband delay (usec)	-1.06132625675E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	1.43400E-01	+/-	5.5E-03
Phase delay (usec)	-1.06146965906E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.30679E-06	+/-	4.4E-07
Delay rate (us/s)	1.49885561344E-01	Apriori rate (us/s)	1.49888560078E-01	Resid rate (us/s)	-2.99873E-06	+/-	2.6E-09
Total phase (deg)	-326.7	Apriori accel (us/s/s)	8.27357629900E-06	Resid phase (deg)	-242.8	+/-	13.7

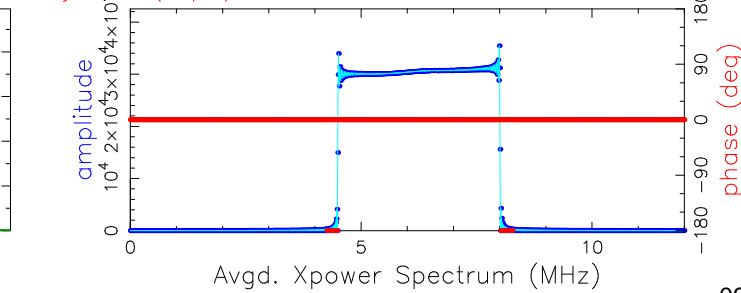
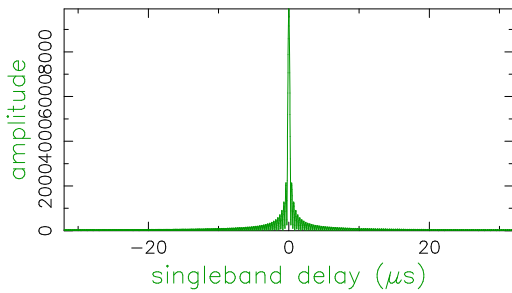
ph/seg (deg)	RMS 93.0	Theor. 117.3	Amplitude Search (2048X8)	1.187 +/- 0.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	77.9	204.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.511	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.179	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

o: az 86.9 el 64.6 pa -74.8 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) -1031.325 753.986 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/op..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/op.W.142.1T5GU7

Fringe quality 5

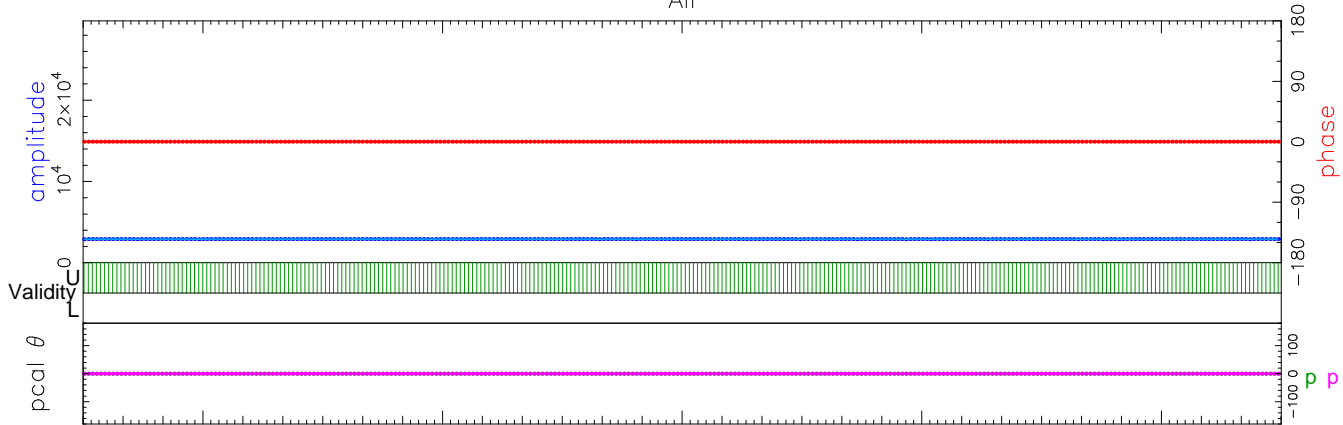


SNR 71961.5
Int time 299.973
Amp 9924.431
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051941
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



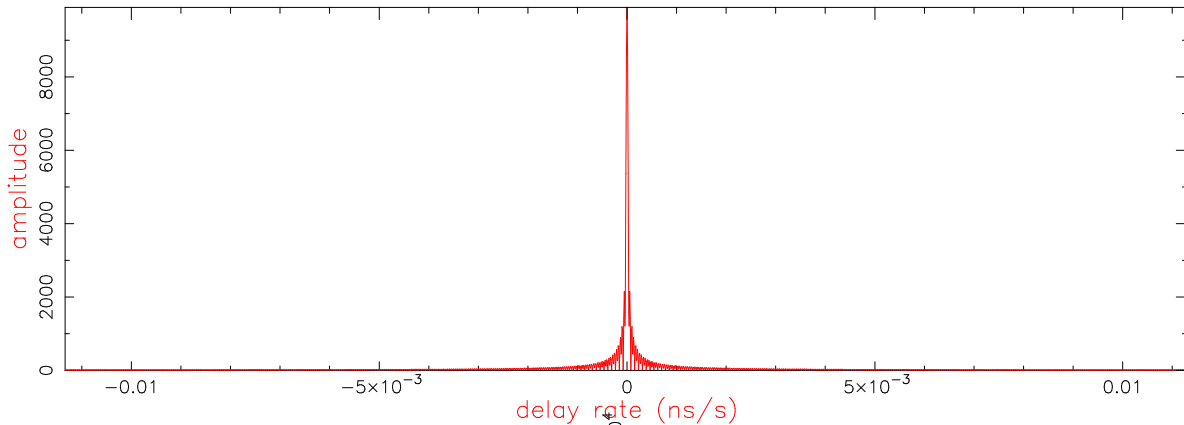
86227.00
0.2
2907.5
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UL

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)	5.40109246524E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.19620E-06	+/-	6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	6.68965501772E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.68966E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

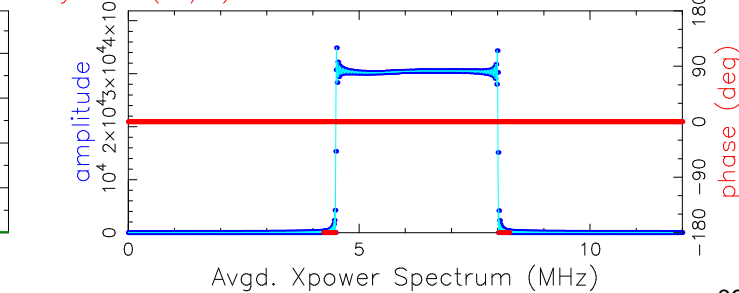
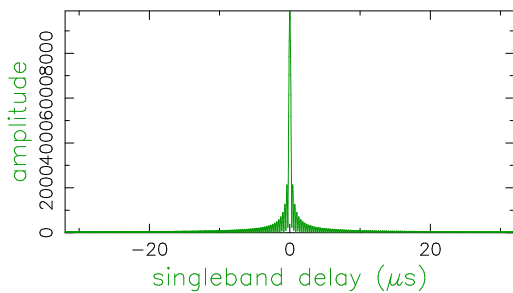
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9924.431 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	9924.431	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2907.548	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9924.431	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

p: az 83.6 el 72.6 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/pp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/pp.W.117.1T5GU7



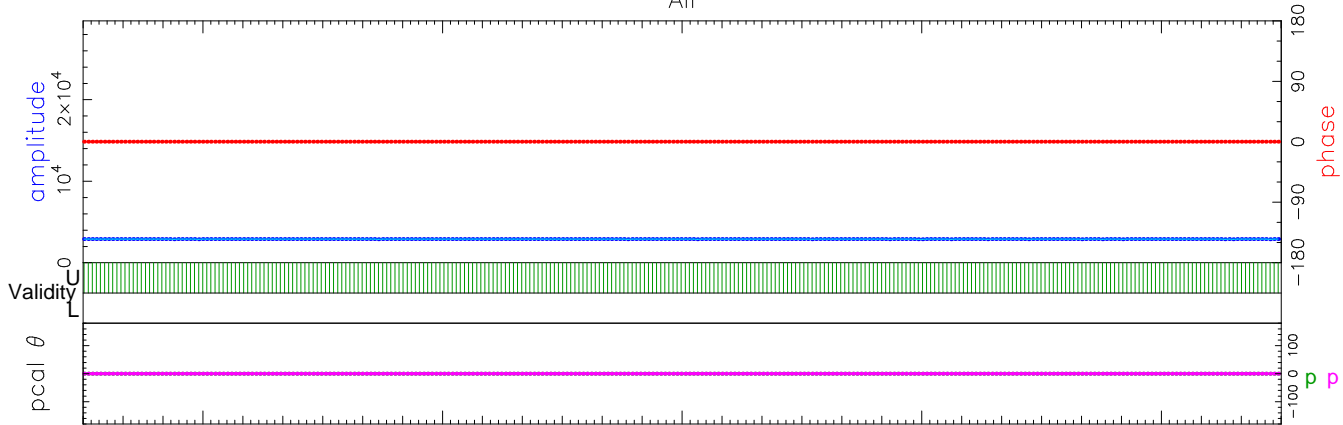
Fringe quality 5

SNR 71736.2
Int time 299.973
Amp 9893.356
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. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
0.1
2898.4
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UR
p W03UR

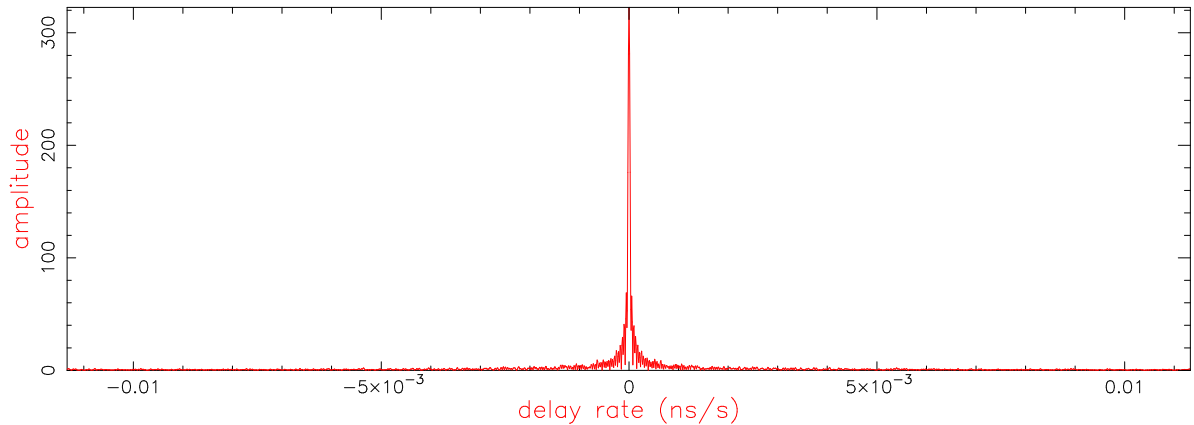
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.41277094182E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.41277E-06	+/-	6.4E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	4.76419430681E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.76419E-09	+/-	5.2E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-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	9893.356 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9893.356	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2898.444	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9893.355	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

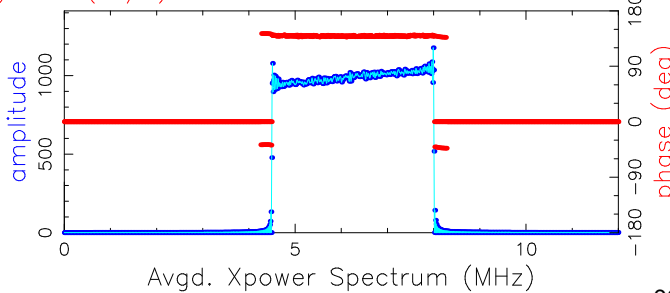
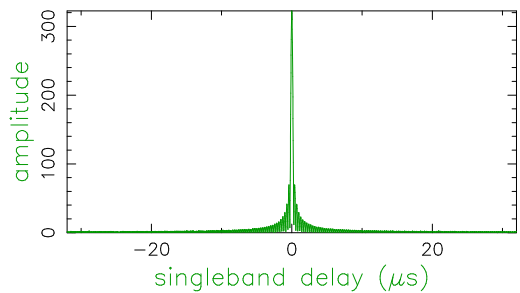
p: az 83.6 el 72.6 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/pp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/pp.W.122.1T5GU7



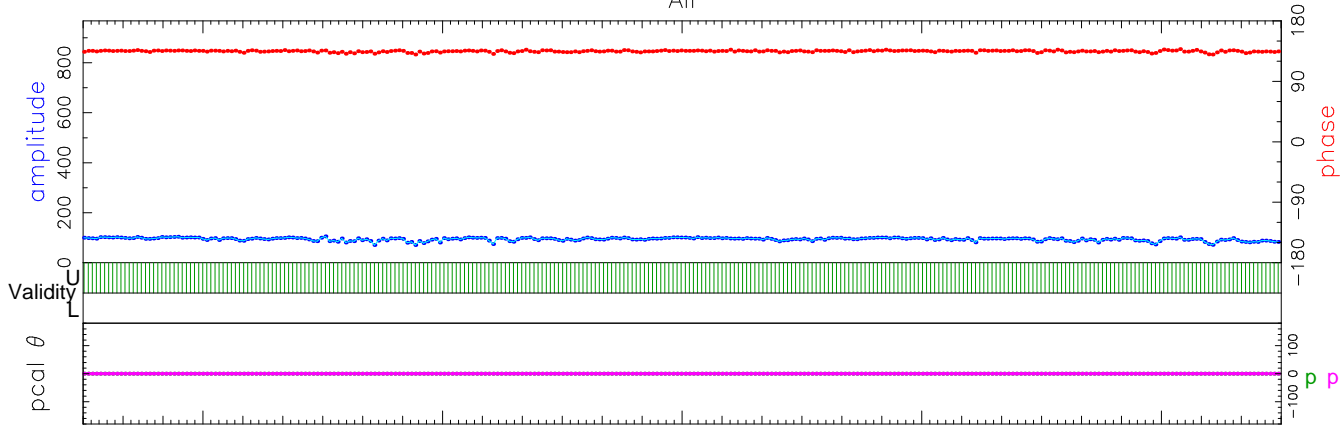
Fringe quality 5

SNR 2339.3
Int time 299.973
Amp 322.613
Phase 196.6
PFD 0.0e+00
Delays (us)
SBD -0.001979
MBD -0.000006
Fringe rate (Hz)
-0.000010
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051942
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



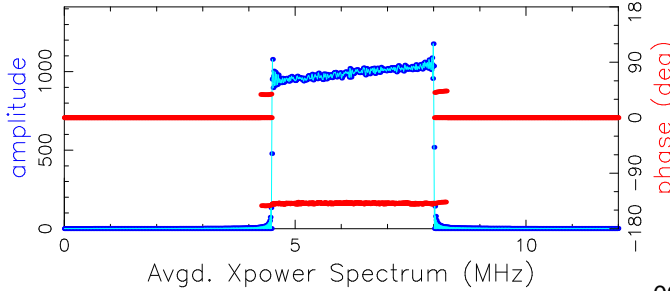
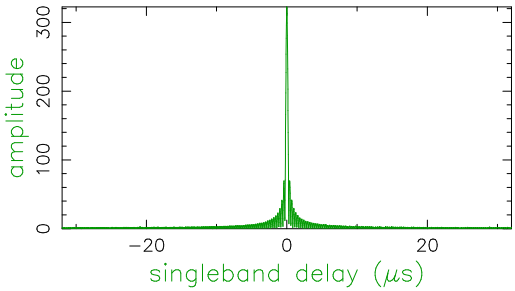
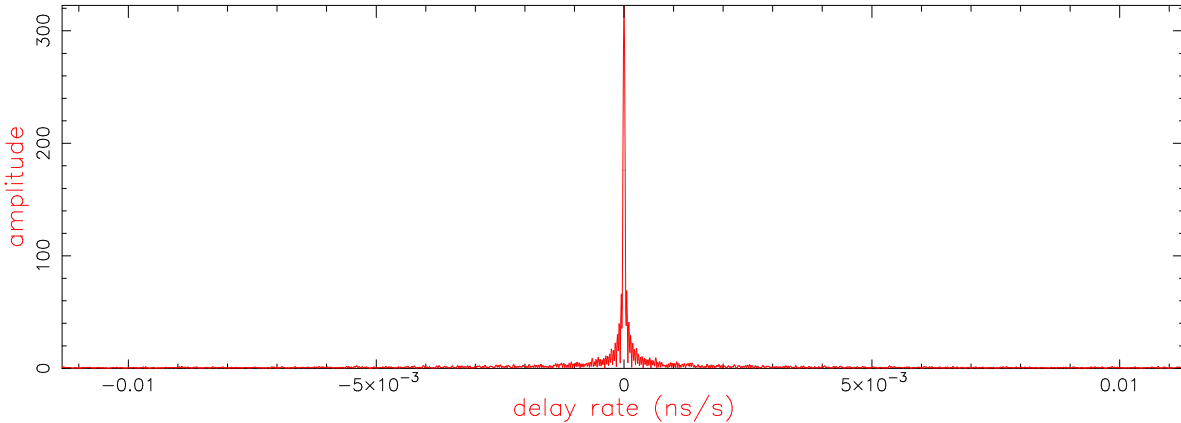
86227.00
134.8
94.5
1536.9
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UR

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)	-1.97743518851E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.89495E-06	+/- 2.0E-05
Sband delay (usec)	-1.97866666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.97867E-03	+/- 2.0E-05
Phase delay (usec)	4.34711747293E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.34712E-06	+/- 1.6E-09
Delay rate (us/s)	-1.16912007231E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.16912E-10	+/- 9.1E-12
Total phase (deg)	196.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	196.6	+/- 0.0

ph/seg (deg)	1.3	Theor.	0.4	Amplitude	322.613 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	322.583	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	94.527	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	322.588	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 83.6 el 72.6 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/pp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/pp.W.130.1T5GU7

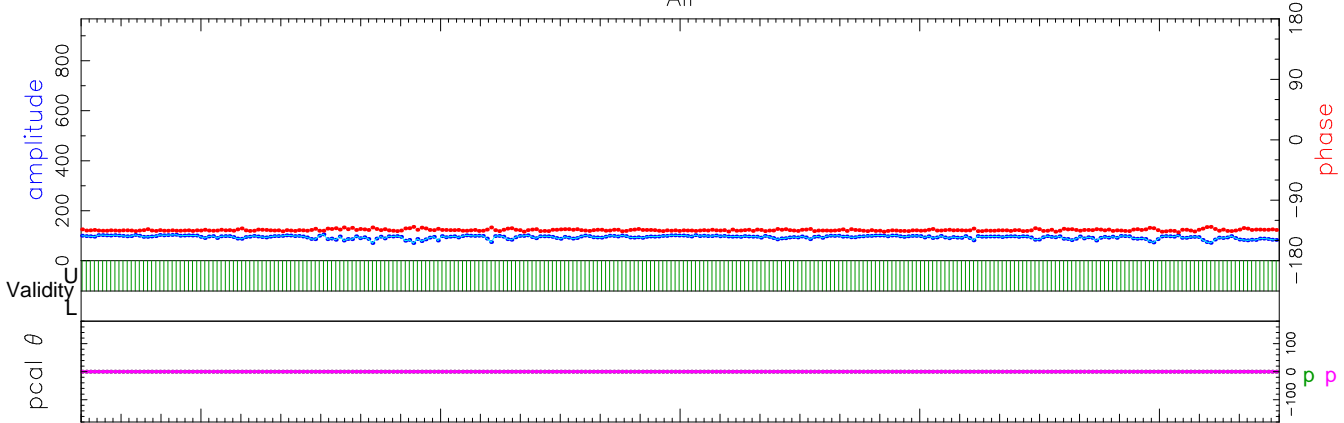


Fringe quality 5

SNR 2339.3
Int time 299.973
Amp 322.613
Phase -196.5
PFD 0.0e+00
Delays (us)
SBD 0.001979
MBD -0.000006
Fringe rate (Hz)
0.000010
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 011430.00
Stop 011930.03
FRT 011700.00
Corr/FF/build
2021:228:035953
2021:228:051943
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

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



86227.00
-134.4
94.5
1537.1
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UR
p
p W03UL

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)	1.97738796433E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.74957E-06	+/- 2.0E-05
Sband delay (usec)	1.9786666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.97867E-03	+/- 2.0E-05
Phase delay (usec)	-4.33454560930E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.33455E-06	+/- 1.6E-09
Delay rate (us/s)	1.16912007231E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	1.16912E-10	+/- 9.1E-12
Total phase (deg)	-196.5	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-196.5	+/- 0.0

ph/seg (deg)	1.3	Theor.	0.4	Amplitude	322.613 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	322.583	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	94.527	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	322.588	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 83.6 el 72.6 pa -84.9 p: az 83.6 el 72.6 pa -84.9 u, v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0015/pp..1T5GU7 Output file: /Exps/c211d/v1/LINES1/1234/No0015/pp.W.135.1T5GU7