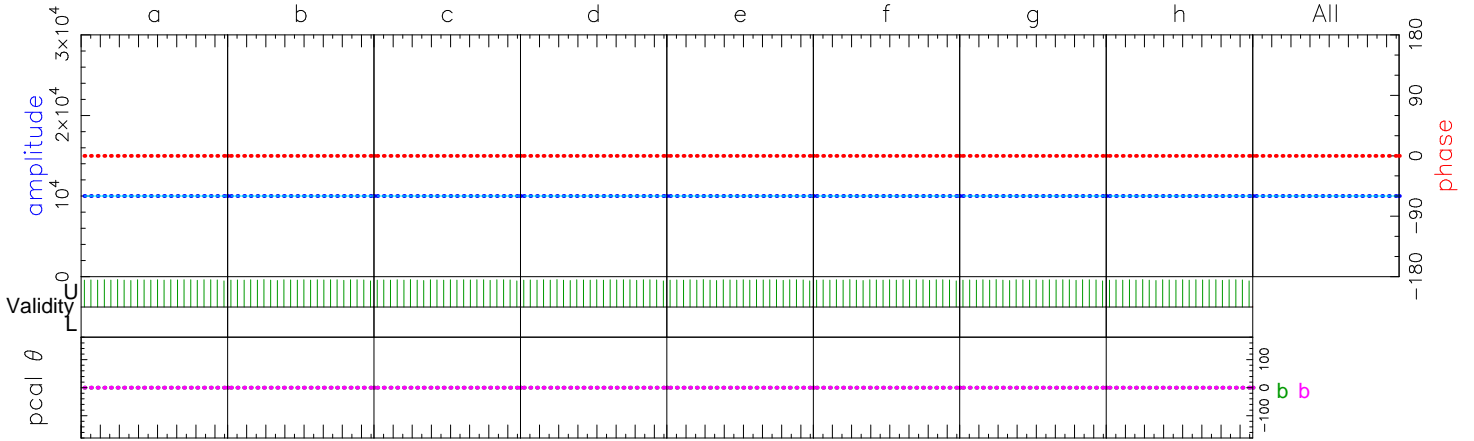


Fringe quality 9

SNR 568656.6
Int time 432.419
Amp 10000.002
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210515
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

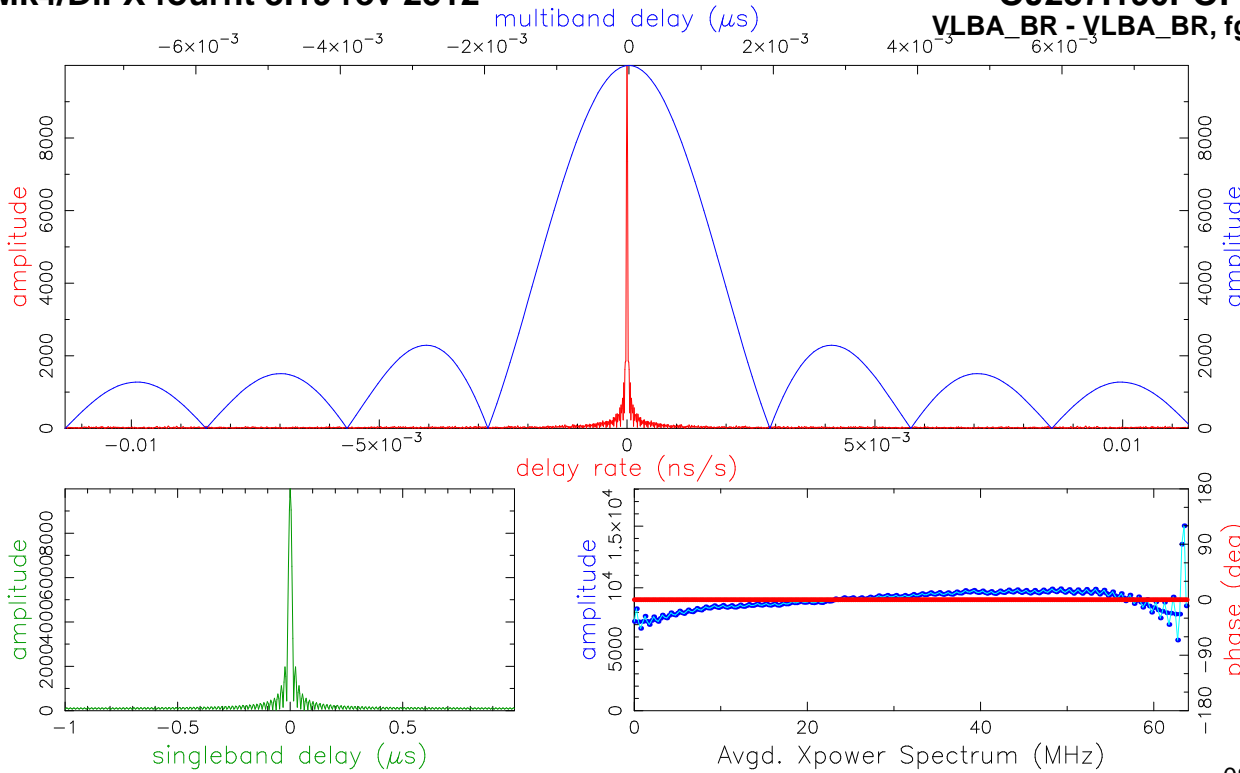


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) 1.29127431143E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.29127E-20 +/- 6.5E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.6E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.002 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 b: az 78.2 el 16.5 pa -44.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bb..190POF Output file: /Exps/c201c/v1/1234/No0032/bb.W.1.190POF

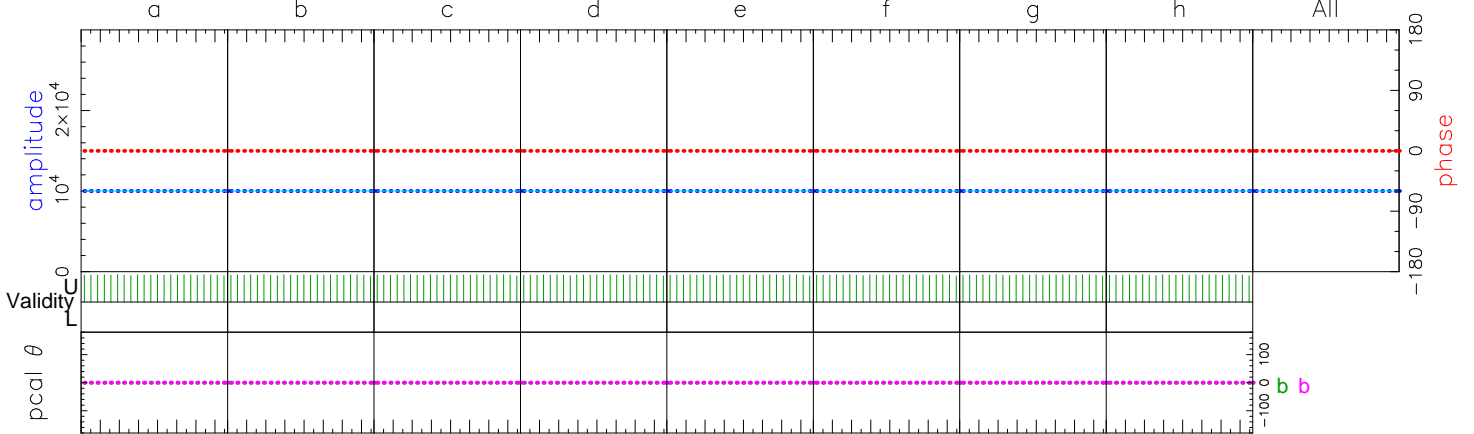


Fringe quality 9

SNR 568656.7
Int time 432.419
Amp 9999.998
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210519
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

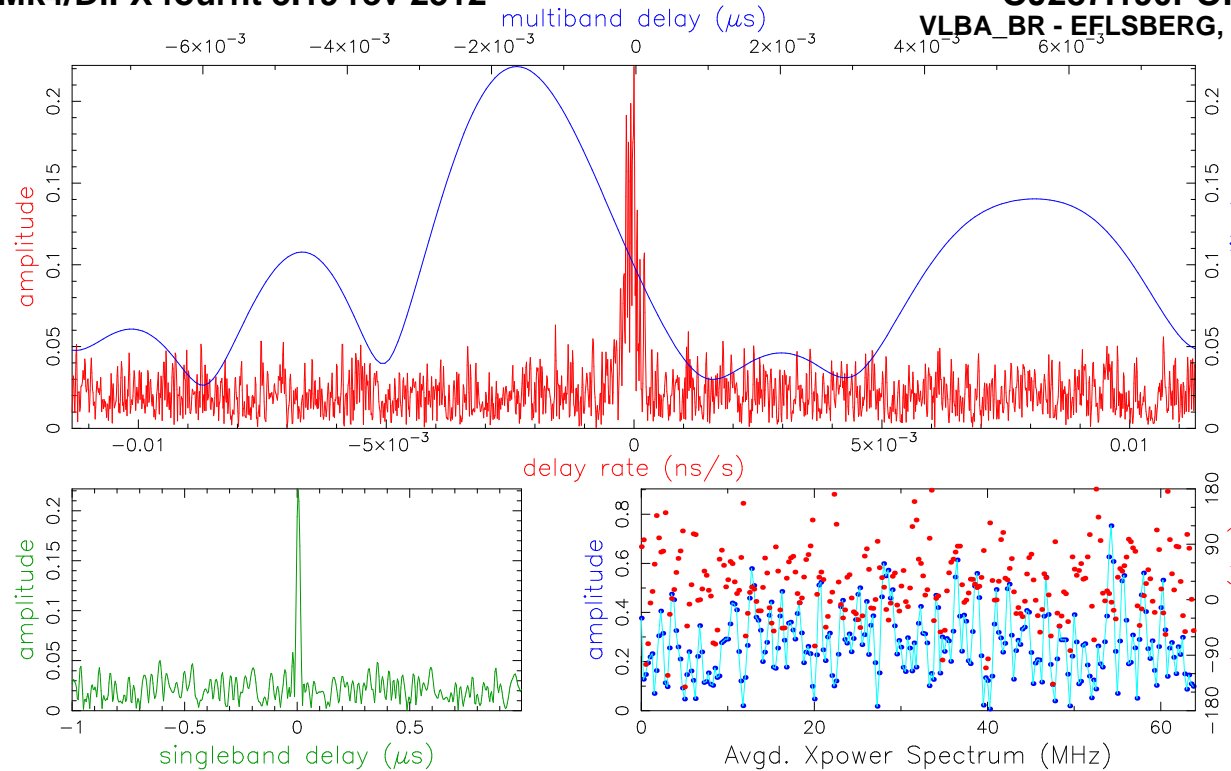


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
b	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	8.07415078743E-20	8.07415078743E-20	8.07415078743E-20	8.07415078743E-20	8.07415078743E-20	8.07415078743E-20	8.07415078743E-20	8.07415078743E-20	Resid phdelay (usec)	8.07415E-20 +/- 6.5E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.6E-14
Total phase (deg)			0.0						Resid phase (deg)	0.0 +/- 0.0

RMS Theor. Amplitude 9999.998 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.998 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.998 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bb..190POF Output file: /Exps/c201c/v1/1234/No0032/bb.W.20.190POF

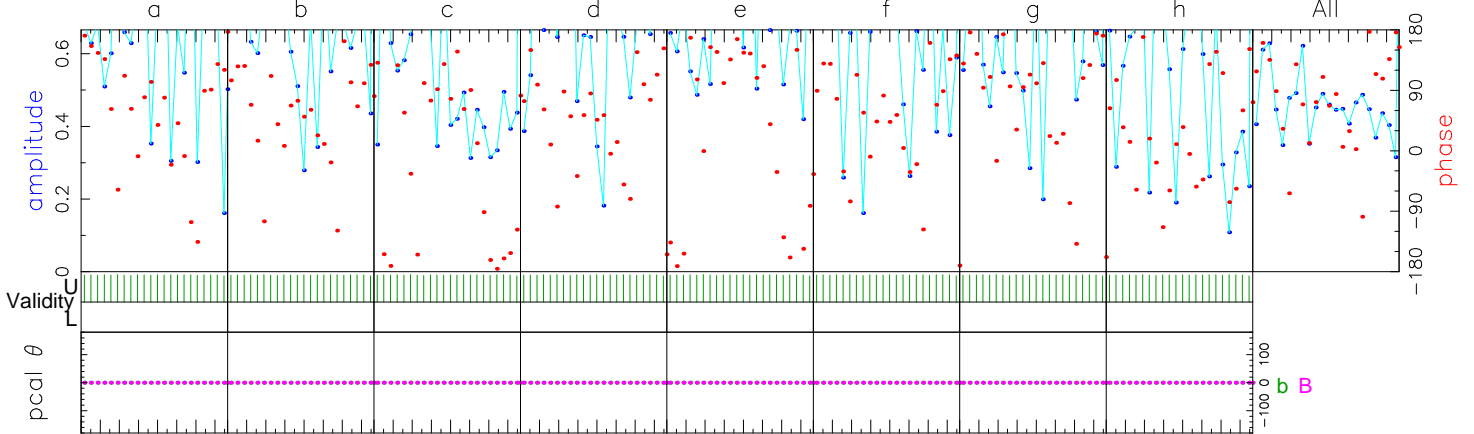


Fringe quality 9

SNR 12.6
 Int time 432.351
 Amp 0.222
 Phase 94.3
 PFD 8.5e-28
 Delays (us)
 SBD 0.004667
 MBD -0.001637
 Fringe rate (Hz)
 -0.000447
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

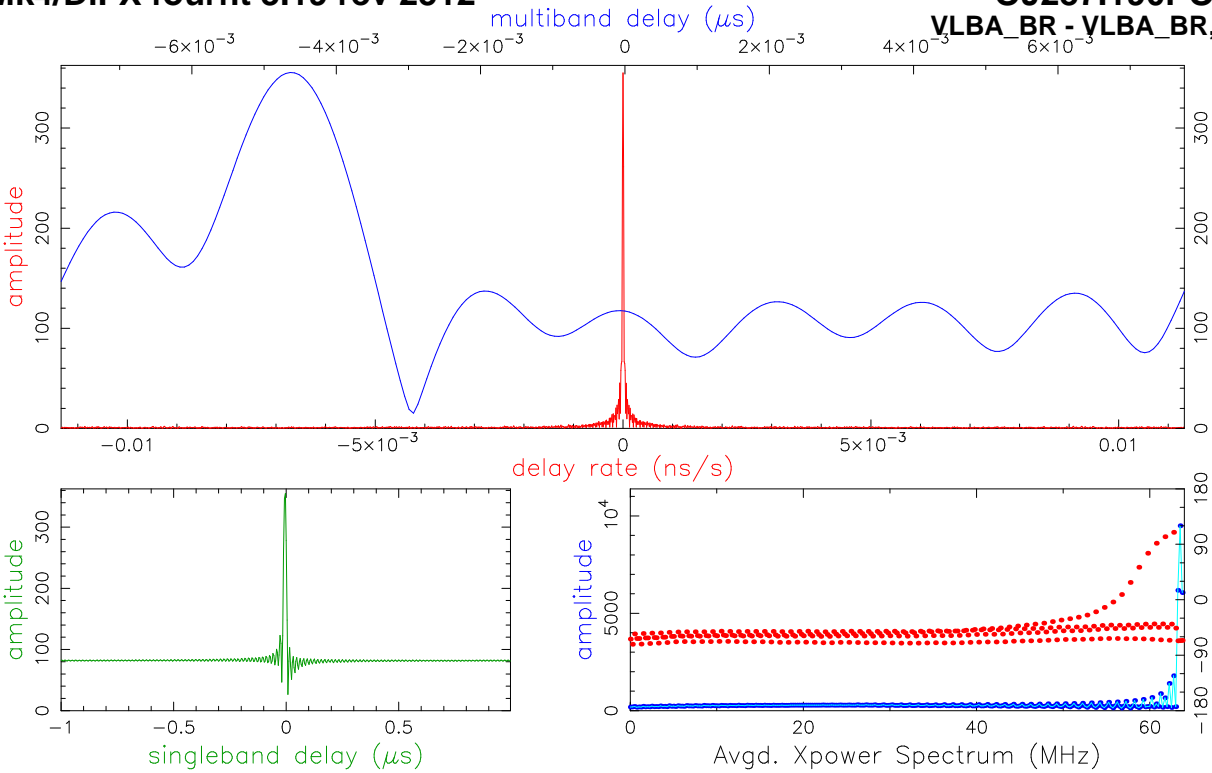
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210520
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-9.02881407046E+03									
Sband delay (usec)	-9.02880776596E+03									
Phase delay (usec)	-9.02881243017E+03									
Delay rate (us/s)	1.57392372618E+00									
Total phase (deg)			-264.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									94.3	+/- 9.1

	RMS	Theor.	Amplitude	0.222 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	70.9	21.8	Search (2048X32)	0.205	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	111.6	38.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	56.0	12.8	Inc. seg. avg.	0.425	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	46.2	22.4	Inc. frq. avg.	0.288	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

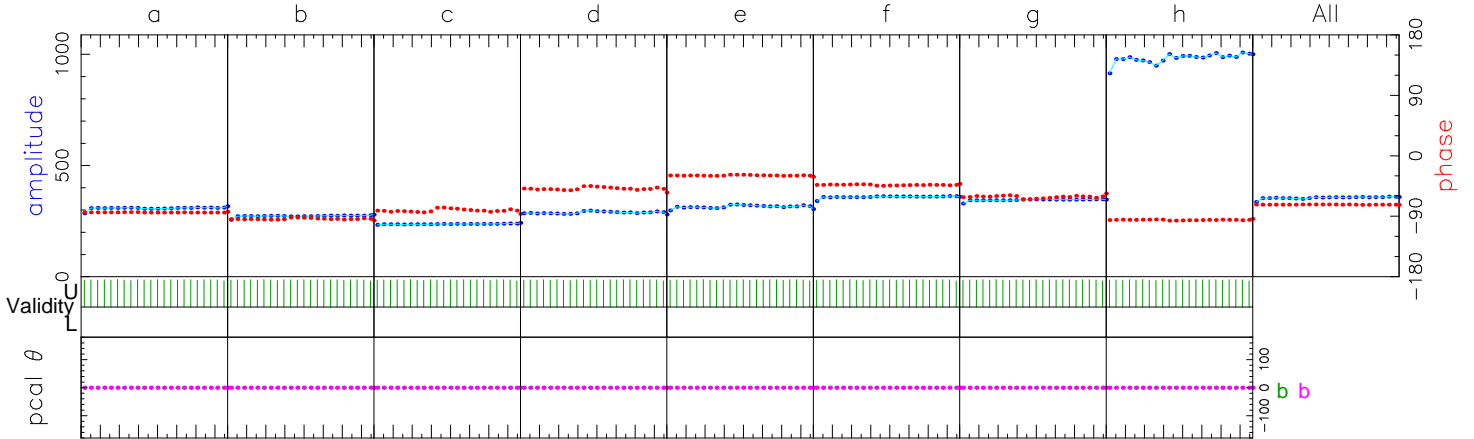


Fringe quality 5

SNR 20622.6
Int time 432.419
Amp 362.656
Phase -72.6
PFD 0.0e+00
Delays (us)
SBD -0.005497
MBD -0.004580
Fringe rate (Hz) 0.000002
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210523
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

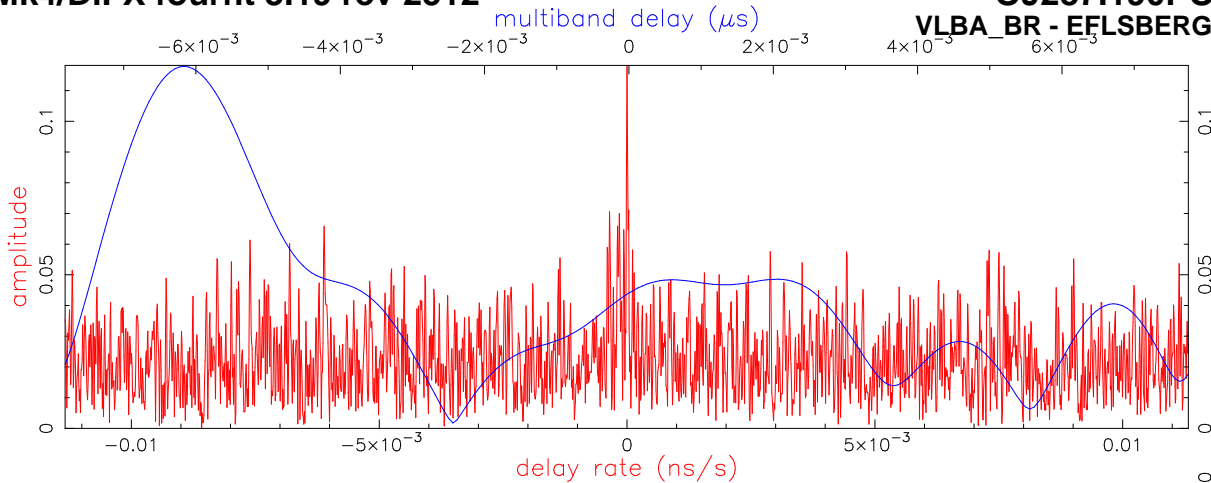
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



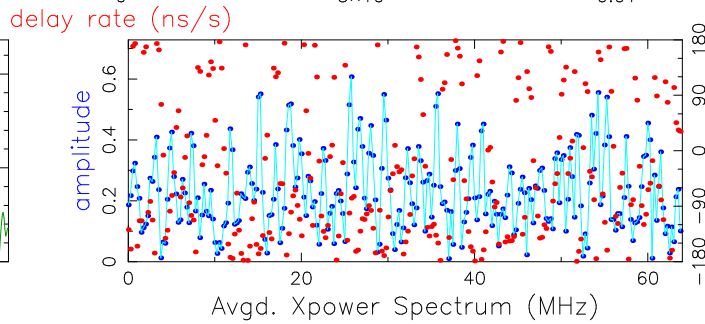
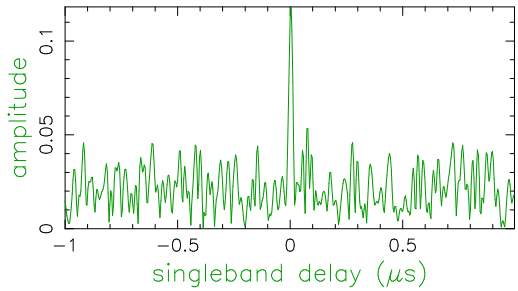
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-84.3	-93.8	-81.3	-48.7	-29.2	-43.4	-61.3	-95.4	Phase	-72.6
	308.1	272.8	236.9	288.8	315.5	359.2	345.3	982.8	Ampl.	388.7
	255.5	255.7	256.2	256.3	255.7	255.7	255.6	255.8	Sbd box	255.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.58037500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-4.58037E-03	+/- 5.3E-08
Sband delay (usec)	-5.49700000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-5.49700E-03	+/- 4.2E-07
Phase delay (usec)	-2.34222945681E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.34223E-06	+/- 1.8E-10
Delay rate (us/s)	2.69251895442E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.69252E-11	+/- 7.1E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-72.6	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 362.656 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.5 0.0 Search (2048X32) 345.841 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 63.1 0.0 Inc. seg. avg. 355.153 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 388.672 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

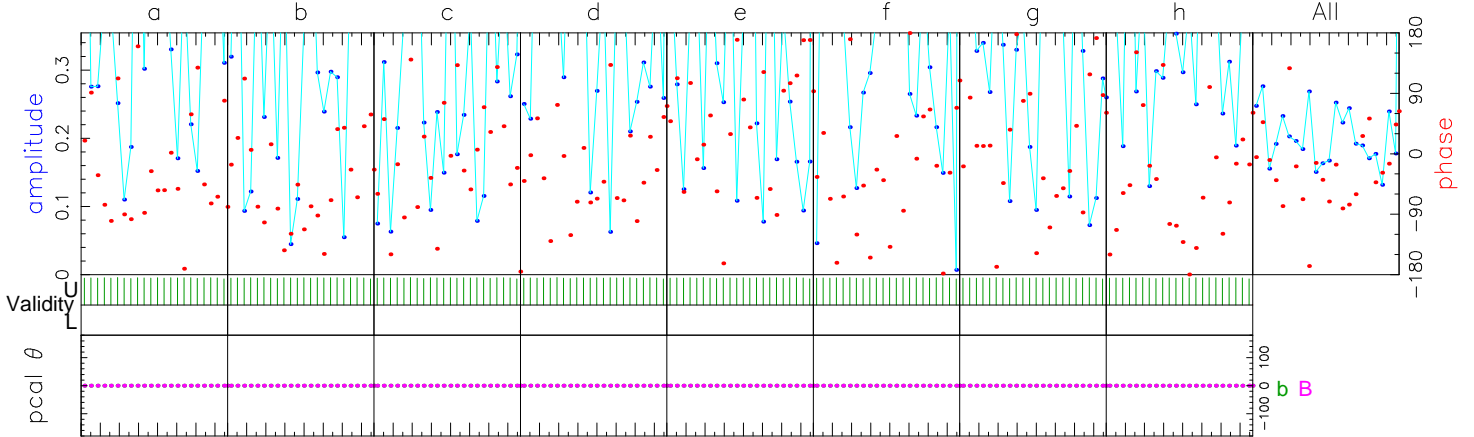
b: az 78.2 el 16.5 pa -44.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bb..190POF Output file: /Exps/c201c/v1/1234/No0032/bb.W.40.190POF



Fringe quality 0
SNR 6.7
Int time 432.351
Amp 0.118
Phase -27.7
PFD 5.2e-03
Delays (us)
SBD 0.003143
MBD -0.006179
Fringe rate (Hz)
-0.000391
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210524
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-9.02880298686E+03	Apriori delay (usec)	-9.02881243321E+03	Resid mbdelay (usec)	-6.17866E-03	+/-	1.6E-04
Sband delay (usec)	-9.02880929046E+03	Apriori clock (usec)	-1.4451098E+01	Resid sbdelay (usec)	3.14275E-03	+/-	1.3E-03
Phase delay (usec)	-9.02881243410E+03	Apriori clockrate (us/s)	1.5800000E-07	Resid phdelay (usec)	-8.93319E-07	+/-	5.5E-07
Delay rate (us/s)	1.57392372683E+00	Apriori rate (us/s)	1.57392373137E+00	Resid rate (us/s)	-4.53619E-09	+/-	2.2E-09
Total phase (deg)	-26.4	Apriori accel (us/s/s)	4.68779652822E-05	Resid phase (deg)	-27.7	+/-	17.0

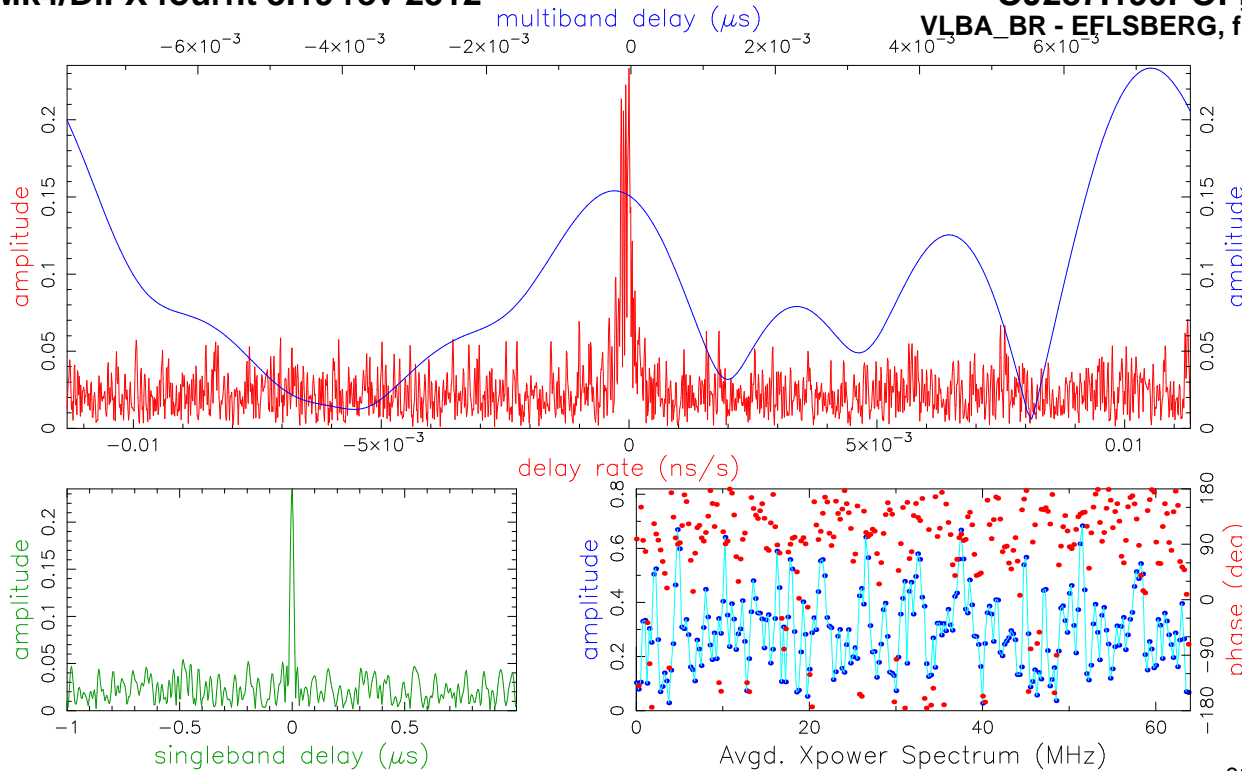
ph/seg (deg)	59.5	Theor.	40.9	Amplitude	0.118 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.9		71.4	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	39.1		24.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.6		42.1	Inc. seg. avg.	0.161	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.129	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) -9515.128 1168.064 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bB..190POF Output file: /Exps/c201c/v1/1234/No0032/bB.W.44.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bB

VLBA_BR - EFLSBERG, fgroup W, pol LL

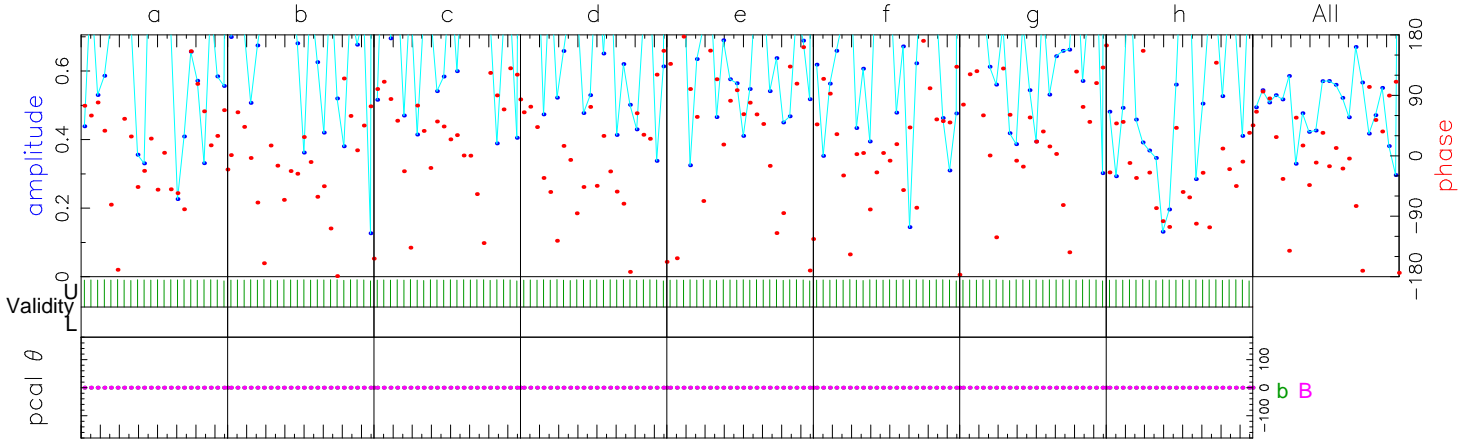


Fringe quality 9

SNR 13.4
 Int time 432.351
 Amp 0.235
 Phase 25.3
 PFD 4.6e-32
 Delays (us)
 SBD -0.001158
 MBD 0.007162
 Fringe rate (Hz)
 -0.000451
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210516
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

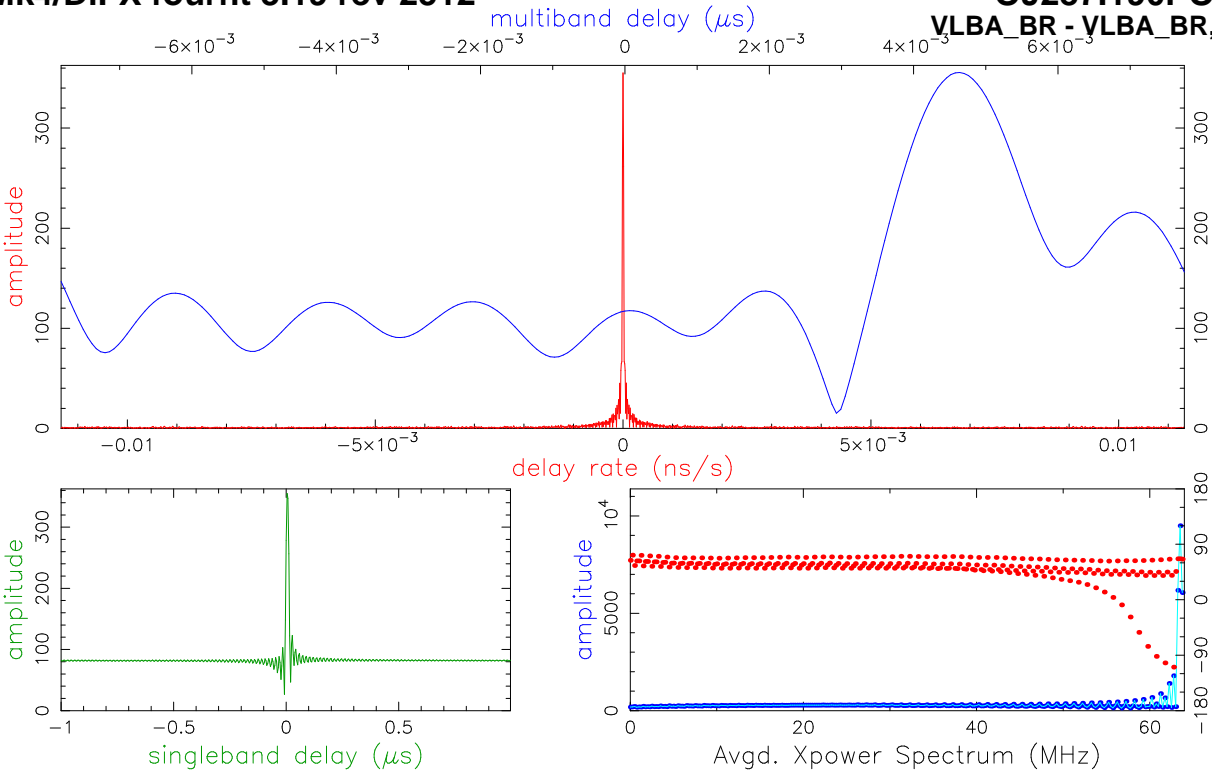
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-9.02882089658E+03			-9.02881243321E+03				7.16163E-03	+/- 8.1E-05
Sband delay (usec)		-9.02881359171E+03			-1.4451098E+01				-1.15850E-03	+/- 6.4E-04
Phase delay (usec)		-9.02881243239E+03			1.5800000E-07				8.14811E-07	+/- 2.8E-07
Delay rate (us/s)		1.57392372613E+00			1.57392373137E+00				-5.23695E-09	+/- 1.1E-09
Total phase (deg)			-333.4		4.68779652822E-05				25.3	+/- 8.6
	RMS	Theor.	Amplitude	0.235 +/- 0.018	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	70.5	20.5	Search (2048X32)	0.219	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	117.9	35.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	48.8	12.1	Inc. seg. avg.	0.466	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	31.6	21.1	Inc. frq. avg.	0.293	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) -9515.128 1168.064 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bB..190POF Output file: /Exps/c201c/v1/1234/No0032/bB.W.5.190POF

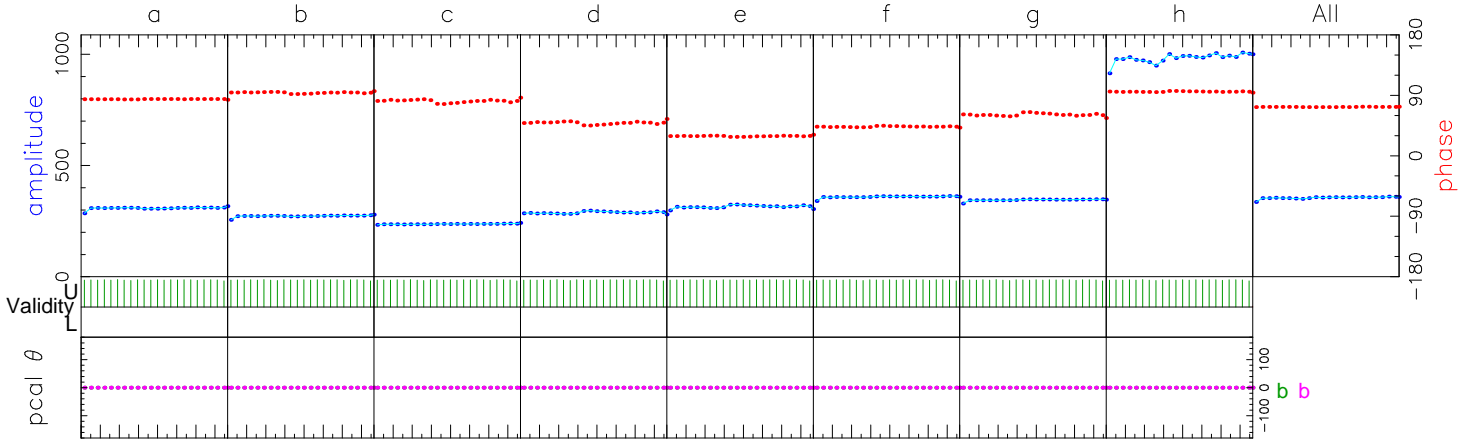


Fringe quality 5

SNR 20622.6
Int time 432.419
Amp 362.655
Phase 72.6
PFD 0.0e+00
Delays (us)
SBD 0.005497
MBD 0.004580
Fringe rate (Hz)
-0.000002
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210528
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

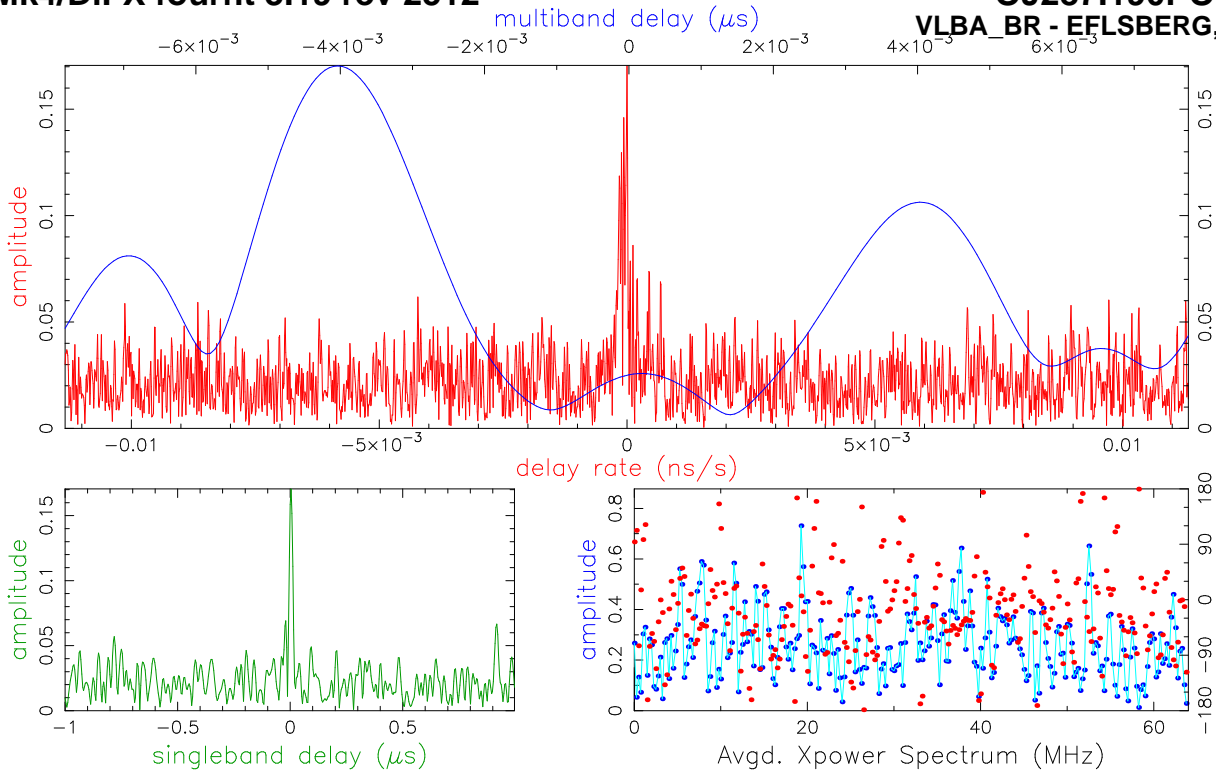


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.58037500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.58037E-03	+/- 5.3E-08
Sband delay (usec)	5.49700000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		5.49700E-03	+/- 4.2E-07
Phase delay (usec)	2.34222945683E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.34223E-06	+/- 1.8E-10
Delay rate (us/s)	-2.69251895442E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.69252E-11	+/- 7.1E-13
Total phase (deg)	72.6		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		72.6	+/- 0.0

ph/seg (deg) 0.1 0.0 Search (2048X32) 345.841 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.5 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.8 0.0 Inc. seg. avg. 355.152 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 63.1 0.0 Inc. frq. avg. 388.672 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 b: az 78.2 el 16.5 pa -44.1 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bB
VLBA_BR - EFLSBERG, fgroup W, pol RL

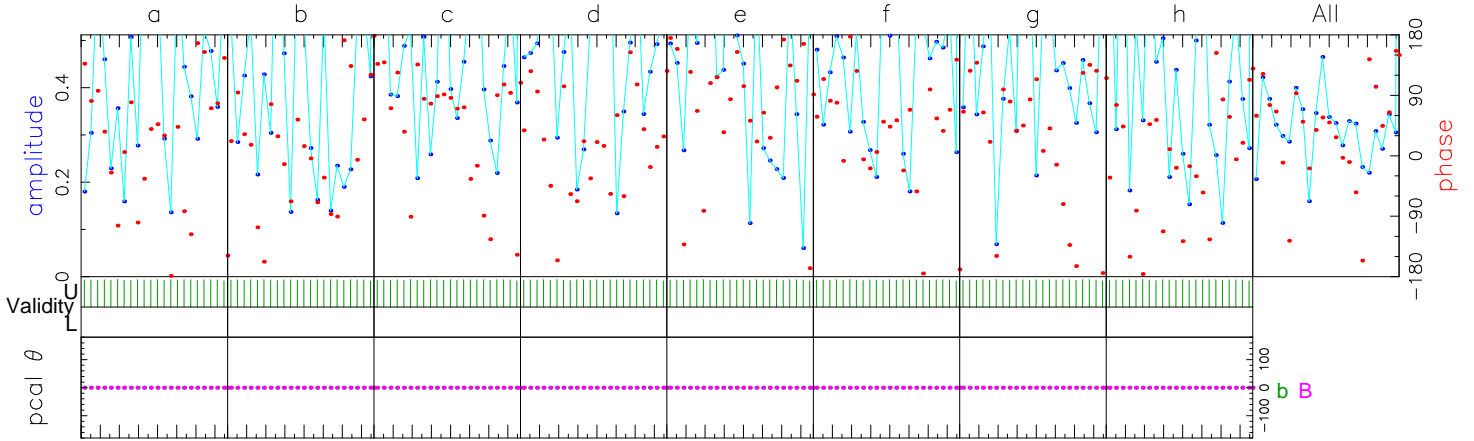


Fringe quality 9

SNR 9.7
Int time 432.351
Amp 0.171
Phase 58.0
PFD 1.2e-13
Delays (us)
SBD 0.003415
MBD -0.004039
Fringe rate (Hz)
-0.000423
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

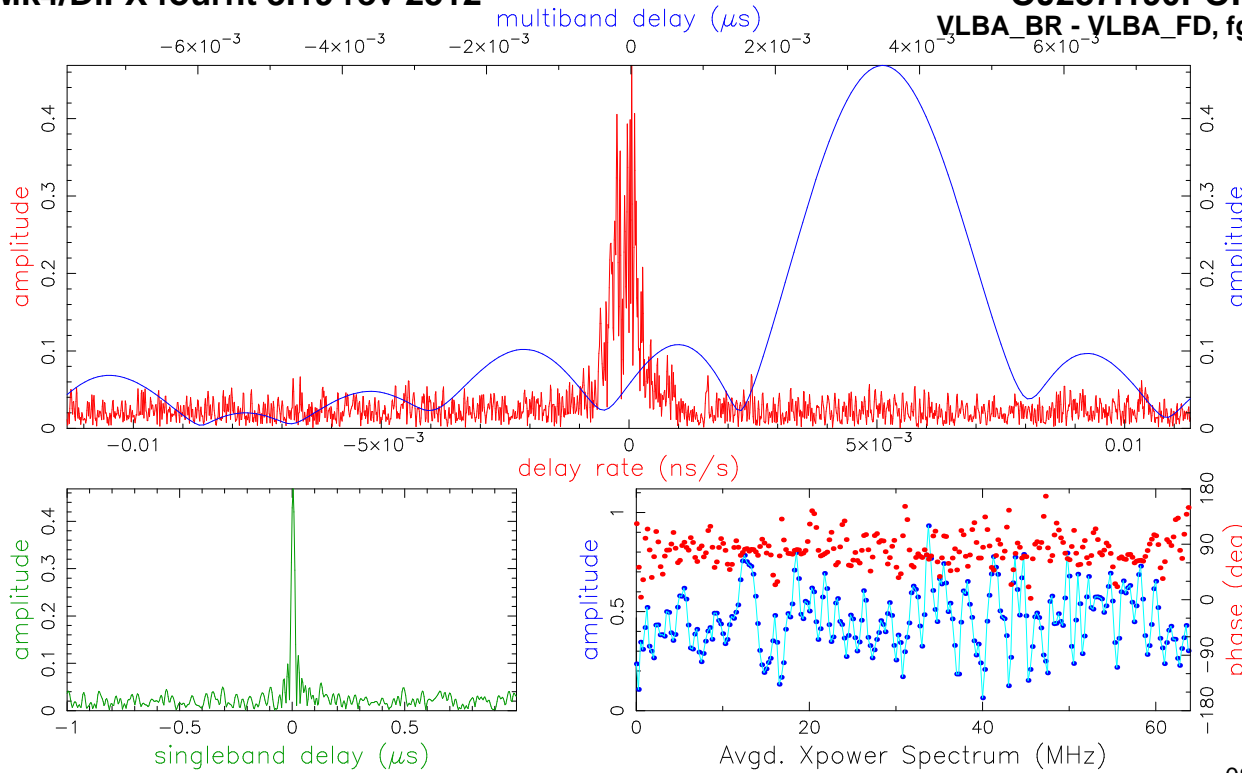
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210529
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.02881647221E+03									
Sband delay (usec)	-9.02880901821E+03									
Phase delay (usec)	-9.02881243133E+03									
Delay rate (us/s)	1.57392372646E+00									
Total phase (deg)			-300.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									58.0	+/- 11.8

ph/seg (deg) 70.8 28.3 Search (2048X32) 0.171 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 98.0 49.4 Interp. 0.161 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.3 16.7 Inc. seg. avg. 0.281 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.6 29.2 Inc. frq. avg. 0.205 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) -9515.128 1168.064 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bB..190POF Output file: /Exps/c201c/v1/1234/No0032/bB.W.63.190POF

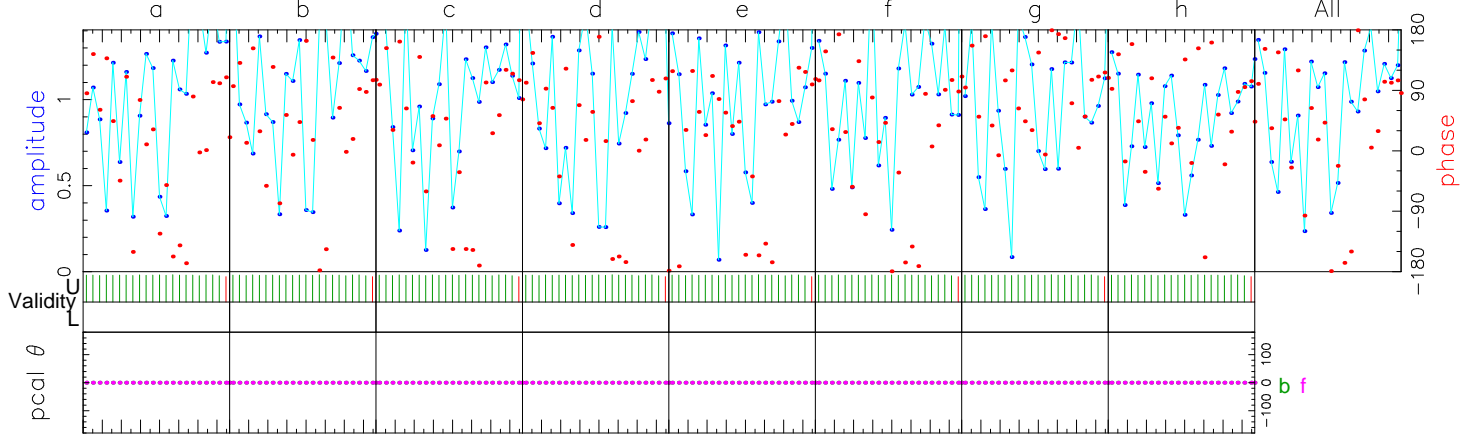


Fringe quality 7

SNR 26.5
Int time 427.909
Amp 0.469
Phase 82.8
PFD 0.0e+00
Delays (us)
SBD 0.003727
MBD 0.003481
Fringe rate (Hz) 0.004611
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

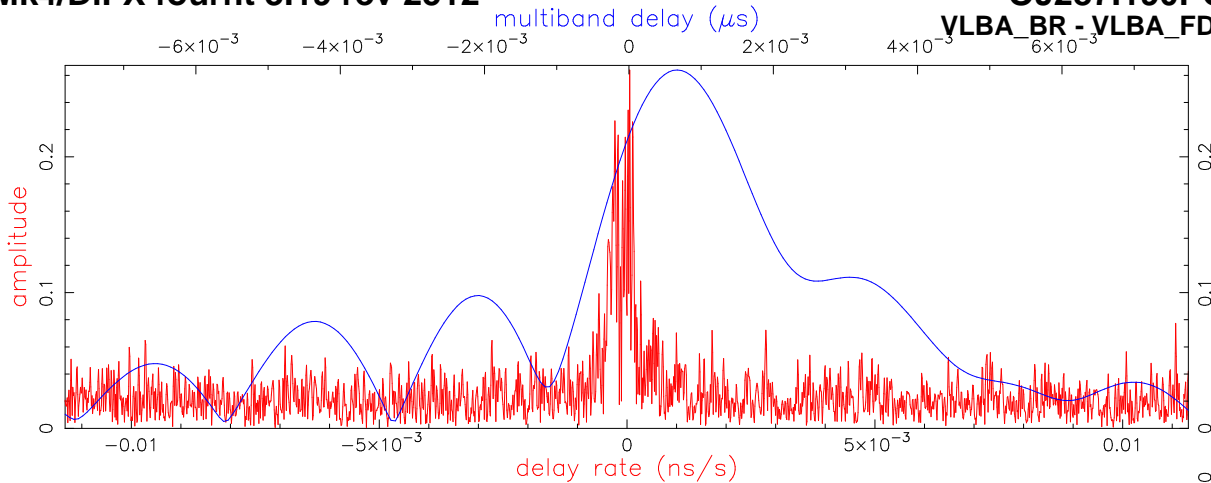
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210521
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



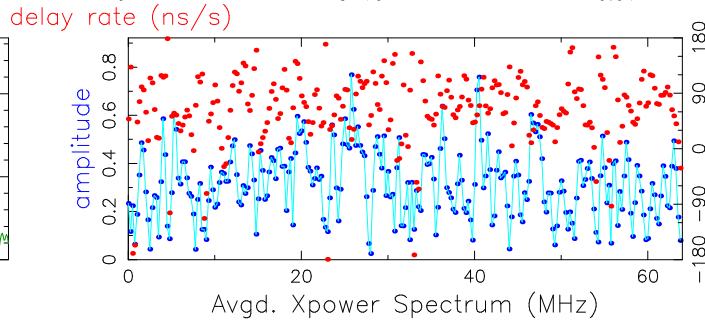
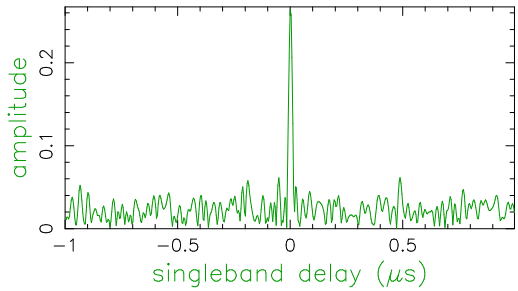
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.16979952543E+03		Apriori delay (usec)		-3.16980300685E+03		Resid mbdelay (usec)		3.48141E-03	+/- 4.1E-05
Sband delay (usec)	-3.16979928010E+03		Apriori clock (usec)		-5.3186212E+00		Resid sbdelay (usec)		3.72675E-03	+/- 3.2E-04
Phase delay (usec)	-3.16980300418E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		2.67051E-06	+/- 1.4E-07
Delay rate (us/s)	-2.10714959237E-01		Apriori rate (us/s)		-2.10715012761E-01		Resid rate (us/s)		5.35244E-08	+/- 5.5E-10
Total phase (deg)	79.3		Apriori accel (us/s/s)		2.59085706554E-05		Resid phase (deg)		82.8	+/- 4.3

ph/seg (deg) 77.8 10.4 Search (2048X32) 0.461 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 129.8 18.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.3 6.1 Inc. seg. avg. 0.958 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.9 10.7 Inc. frq. avg. 0.469 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.31.190POF



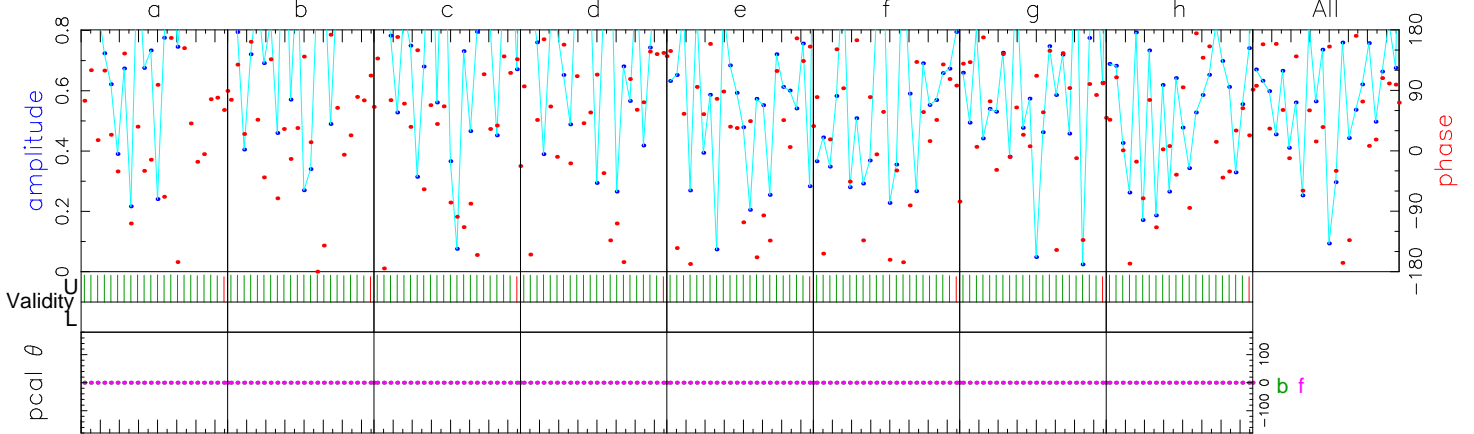
Fringe quality 8

SNR 15.1
Int time 427.908
Amp 0.267
Phase 80.8
PFD 7.4e-43
Delays (us)
SBD 0.001456
MBD 0.000685
Fringe rate (Hz)
0.004658
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210516
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

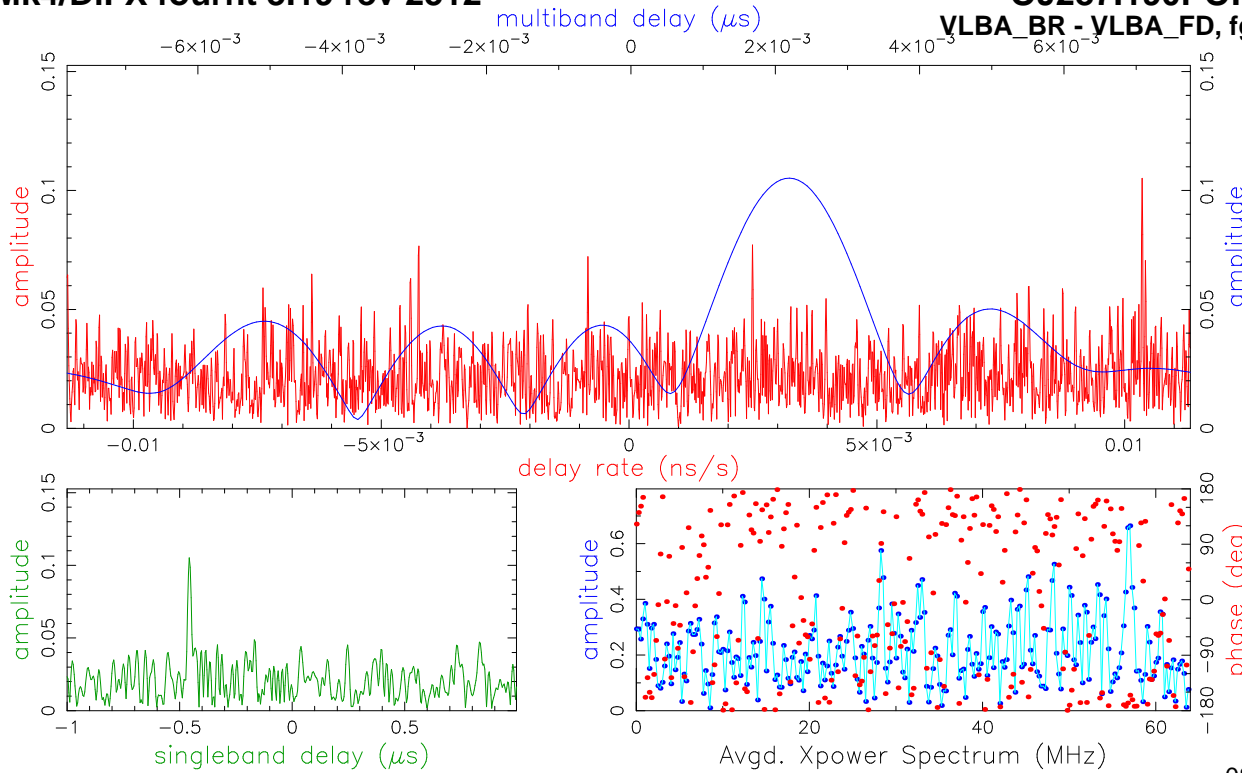


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-3.16980232212E+03	Apriori delay (usec)	-3.16980300685E+03	Resid mbdelay (usec)	6.84727E-04	+/-	7.2E-05
Sband delay (usec)	-3.16980155060E+03	Apriori clock (usec)	-5.3186212E+00	Resid sbdelay (usec)	1.45625E-03	+/-	5.7E-04
Phase delay (usec)	-3.16980300424E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	2.60482E-06	+/-	2.4E-07
Delay rate (us/s)	-2.10714958683E-01	Apriori rate (us/s)	-2.10715012761E-01	Resid rate (us/s)	5.40778E-08	+/-	9.6E-10
Total phase (deg)		Apriori accel (us/s/s)	2.59085706554E-05	Resid phase (deg)	80.8	+/-	7.6

ph/seg (deg)	RMS 75.3	Theor. 18.2	Amplitude Search (2048X32)	0.267 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	133.0	31.7	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	29.9	10.7	Inc. seg. avg.	0.543	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	27.4	18.7	Inc. frq. avg.	0.283	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	dr window (ns/s)	-0.011	0.011
					nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.4.190POF

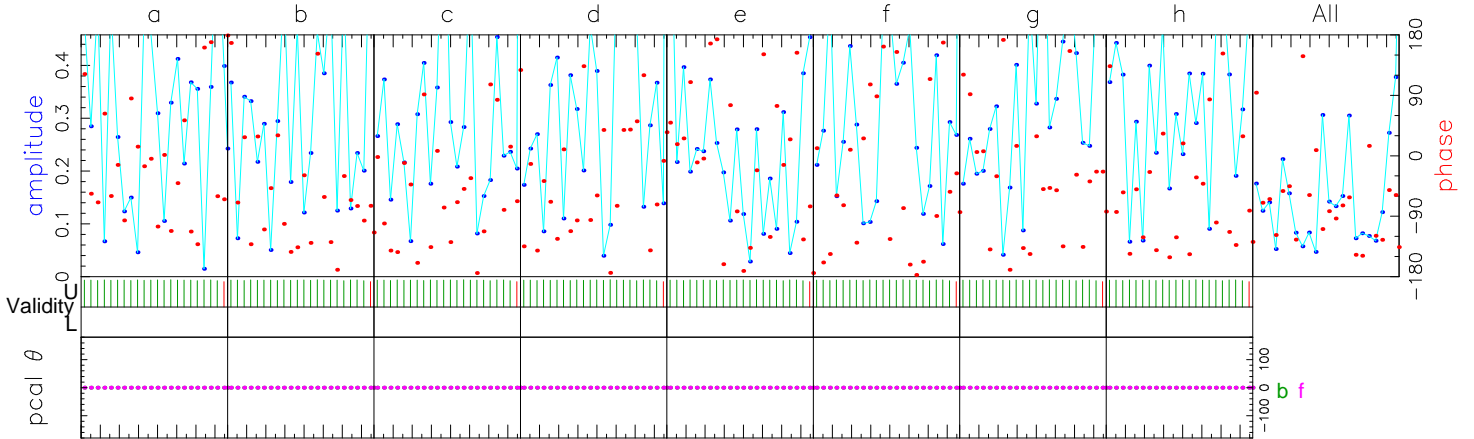


Fringe quality 0

SNR 6.0
Int time 427.908
Amp 0.153
Phase -75.3
PFD 4.8e-01
Delays (us)
SBD -0.456542
MBD 0.002221
Fringe rate (Hz)
0.892798
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210526
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

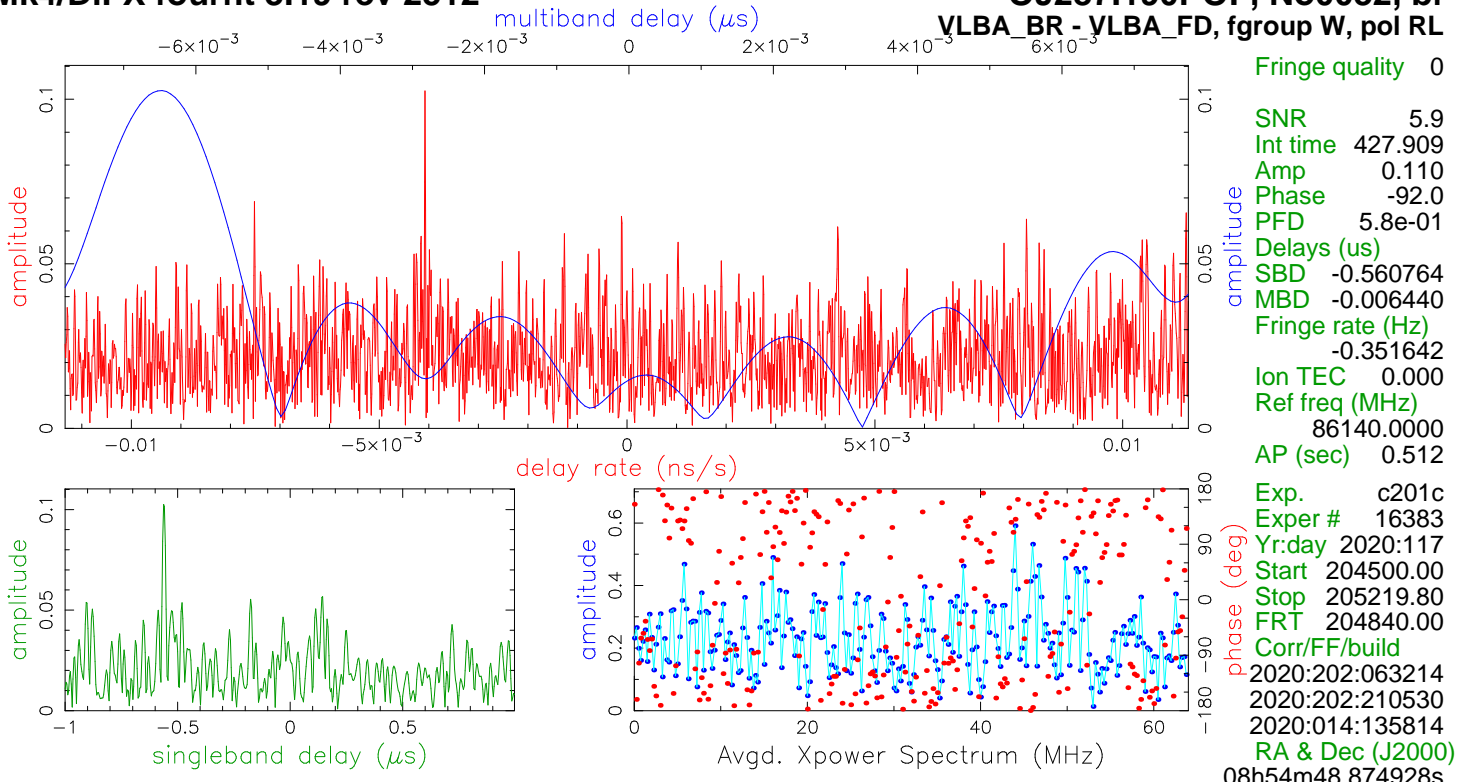


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-60.8	-98.2	-65.2	-64.5	-5.5	-129.0	-49.7	-83.3	Phase	-75.3
	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	237.6	137.4	223.3	437.0	60.7	357.5	472.7	169.1	Sbd box	140.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.17025391106E+03		Apriori delay (usec)		-3.16980300685E+03		Resid mbdelay (usec)		2.22079E-03	+/- 1.8E-04
Sband delay (usec)	-3.17025954835E+03		Apriori clock (usec)		-5.3186212E+00		Resid sbdelay (usec)		-4.56542E-01	+/- 1.4E-03
Phase delay (usec)	-3.16980300927E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		-2.42860E-06	+/- 6.2E-07
Delay rate (us/s)	-2.10704648258E-01		Apriori rate (us/s)		-2.10715012761E-01		Resid rate (us/s)		1.03645E-05	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.59085706554E-05		Resid phase (deg)		-75.3	+/- 19.2

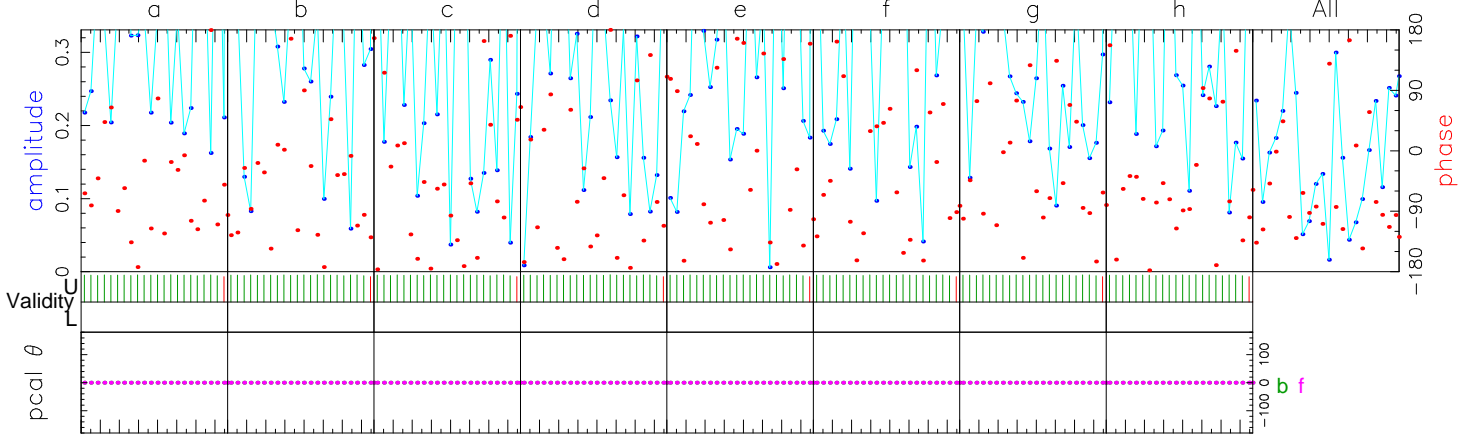
ph/seg (deg) 62.5 46.1 Amplitude 0.153 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.3 80.5 Search (2048X32) 0.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.6 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.3 47.5 Inc. seg. avg. 0.162 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.154 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.50.190POF



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



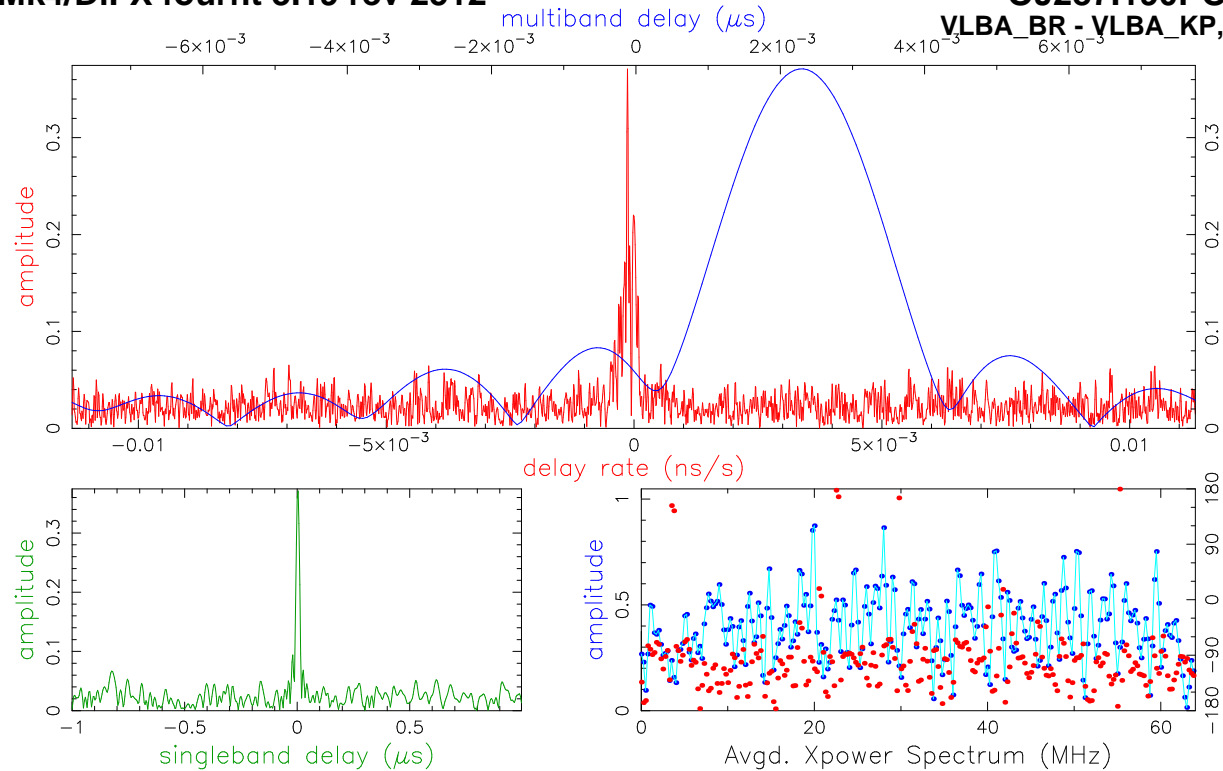
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-76.8	-84.4	-103.7	-124.6	-109.8	-116.9	-66.2	-87.1	Phase	-92.0
	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	Ampl.	0.1
	113.7	378.8	441.7	90.7	414.0	440.3	358.9	172.6	Sbd box	113.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.17035632150E+03	Apriori delay (usec)	-3.16980300685E+03	Resid mbdelay (usec)	-6.43965E-03	+/-	1.8E-04
Sband delay (usec)	-3.17036377110E+03	Apriori clock (usec)	-5.3186212E+00	Resid sbdelay (usec)	-5.60764E-01	+/-	1.5E-03
Phase delay (usec)	-3.16980300981E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	-2.96783E-06	+/-	6.3E-07
Delay rate (us/s)	-2.10719094980E-01	Apriori rate (us/s)	-2.10715012761E-01	Resid rate (us/s)	-4.08222E-06	+/-	2.5E-09
Total phase (deg)		Apriori accel (us/s/s)	2.59085706554E-05	Resid phase (deg)	-92.0	+/-	19.4

ph/seg (deg)	RMS 67.5	Theor. 46.5	Amplitude Search (2048X32)	0.110 +/- 0.019	0.097	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	100.9	81.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	22.8	27.4	Inc. seg. avg.	0.129	0.129	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.1	47.8	Inc. frq. avg.	0.102	0.102	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.69.190POF

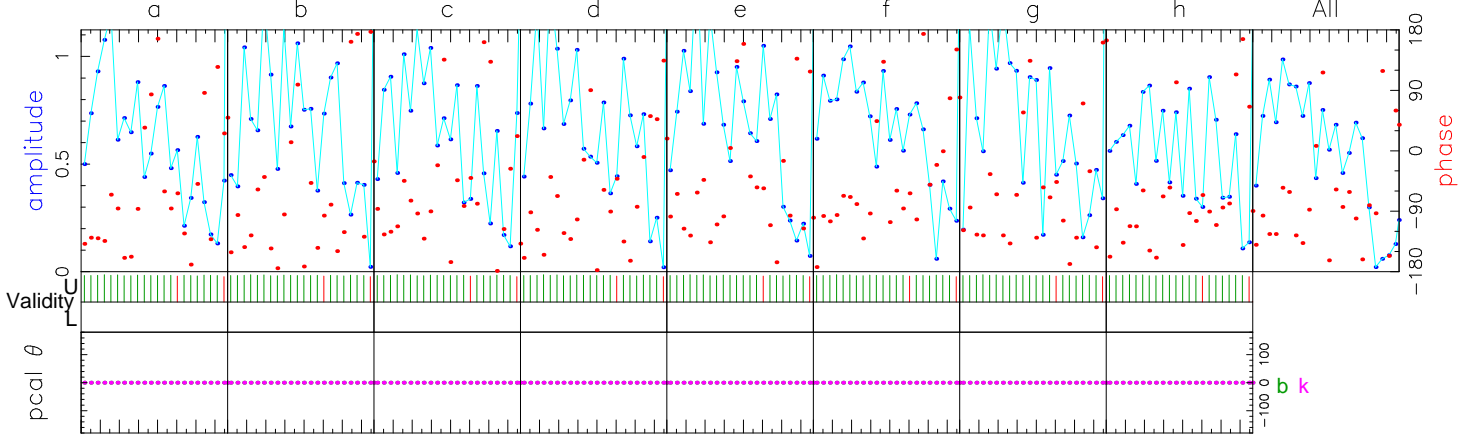


Fringe quality 9

SNR 21.1
Int time 424.114
Amp 0.375
Phase -102.4
PFD 0.0e+00
Delays (us)
SBD 0.002643
MBD 0.002263
Fringe rate (Hz)
-0.011367
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210520
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-109.5	-116.1	-95.9	-95.5	-97.8	-94.1	-104.2	-109.2		-102.4
	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3		0.4
	257.0	258.2	258.2	257.3	258.2	257.2	257.6	257.4		257.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
k	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
b	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
k	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	-1.04339956255E+03		Apriori delay (usec)		-1.04340182567E+03		Resid mbdelay (usec)		2.26312E-03	+/- 5.1E-05
Sband delay (usec)	-1.04339918267E+03		Apriori clock (usec)		-1.0676705E+00		Resid sbdelay (usec)		2.64300E-03	+/- 4.1E-04
Phase delay (usec)	-1.04340182897E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-3.30213E-06	+/- 1.8E-07
Delay rate (us/s)	-2.39196322296E-01		Apriori rate (us/s)		-2.39196190339E-01		Resid rate (us/s)		-1.31957E-07	+/- 6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.38629112496E-05		Resid phase (deg)		-102.4	+/- 5.4

ph/seg (deg) 67.4 13.0
amp/seg (%) 91.5 22.7
ph/frq (deg) 8.8 7.7
amp/frq (%) 8.3 13.4

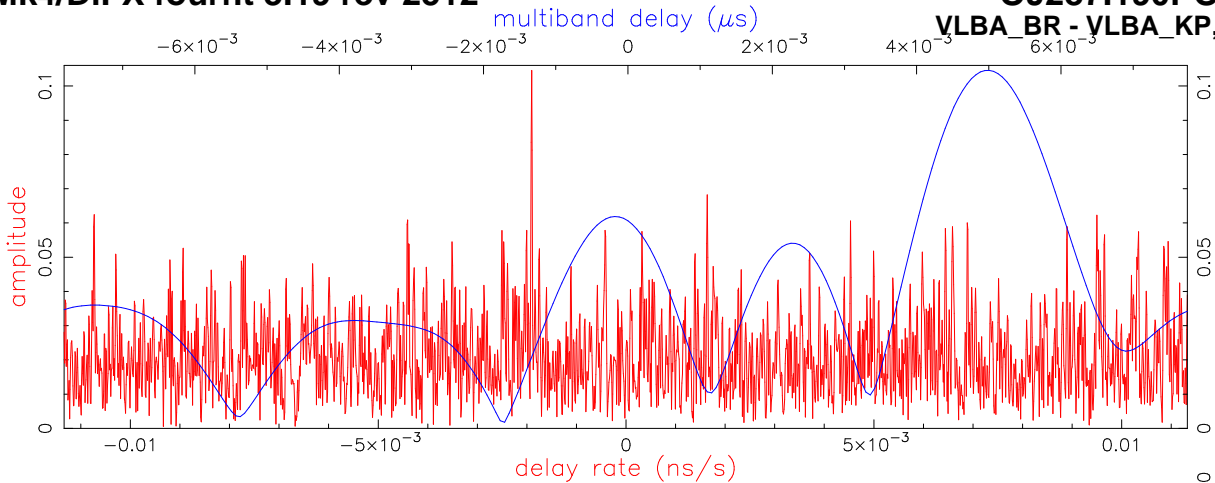
RMS Theor. Amplitude 0.375 +/- 0.018
Search (2048X32) 0.368
Interp. 0.000
Inc. seg. avg. 0.549
Inc. frq. avg. 0.371

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

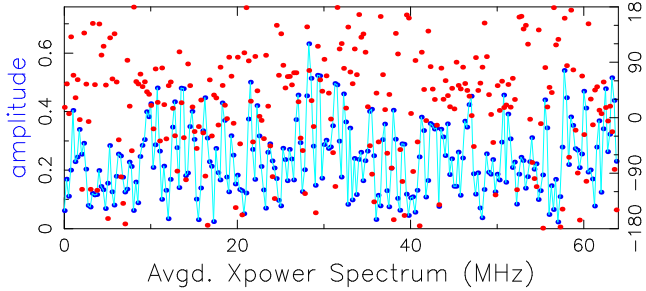
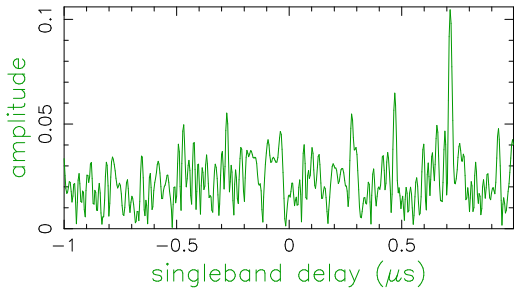
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator

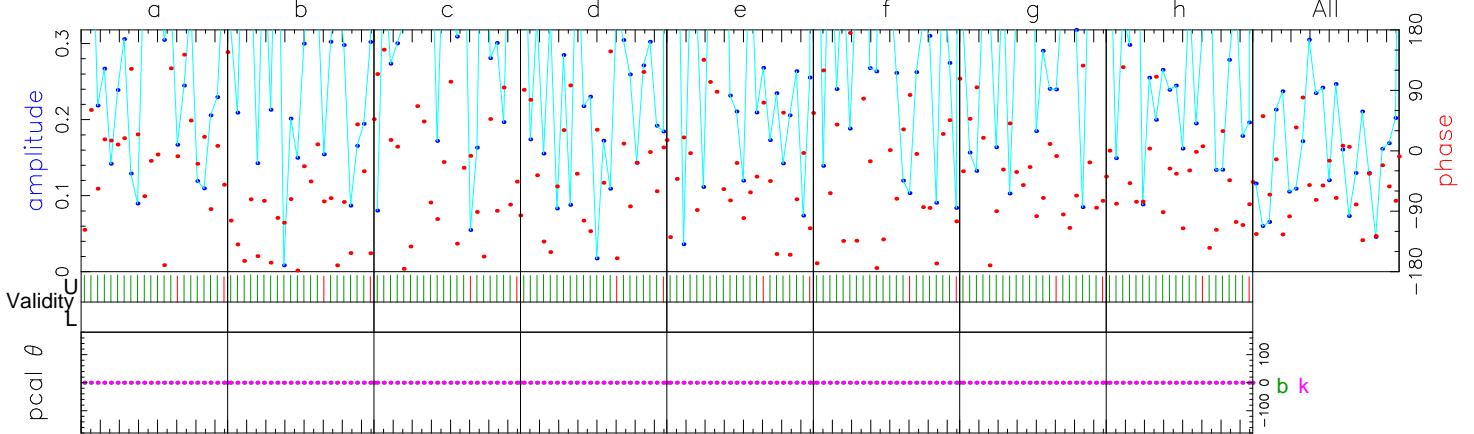
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.24.190POF



Fringe quality 0
SNR 5.9
Int time 424.113
Amp 0.106
Phase -55.4
PFD 6.0e-01
Delays (us)
SBD 0.715419
MBD 0.004997
Fringe rate (Hz)
-0.164192
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210524
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



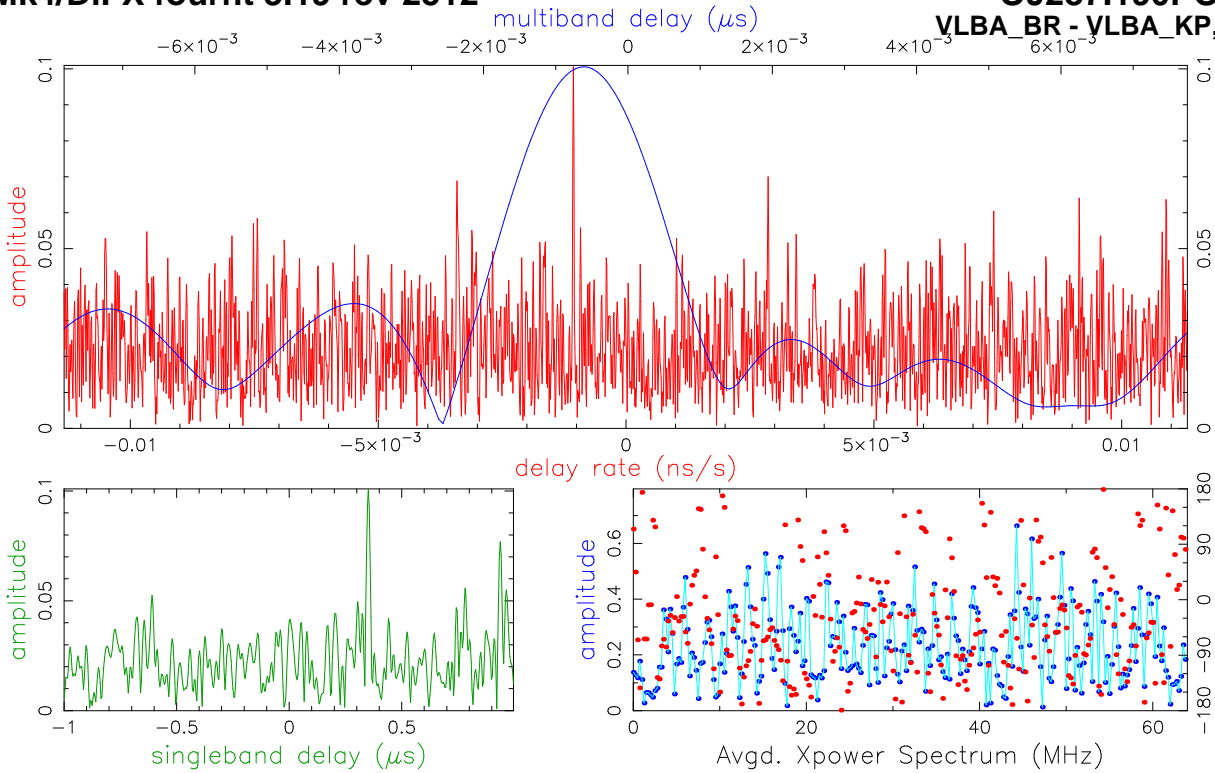
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-1.7	-92.7	-68.6	-27.7	-57.1	-90.1	-46.1	-55.5	Phase	-55.4
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	73.2	238.3	184.0	241.3	420.2	62.5	440.0	132.4	Sbd box	440.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.04269370359E+03		Apriori delay (usec)		-1.04340182567E+03		Resid mbdelay (usec)		4.99708E-03	+/- 1.8E-04
Sband delay (usec)	-1.04268640717E+03		Apriori clock (usec)		-1.0676705E+00		Resid sbdelay (usec)		7.15419E-01	+/- 1.5E-03
Phase delay (usec)	-1.04340182746E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-1.78611E-06	+/- 6.3E-07
Delay rate (us/s)	-2.39198096448E-01		Apriori rate (us/s)		-2.39196190339E-01		Resid rate (us/s)		-1.90611E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.38629112496E-05		Resid phase (deg)		-55.4	+/- 19.4

	RMS	Theor.	Amplitude	0.106 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.1	46.6	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	85.7	81.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	33.0	27.5	Inc. seg. avg.	0.122	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.1	47.9	Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.43.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bk
VLBA_BR - VLBA_KP, fgroup W, pol RL

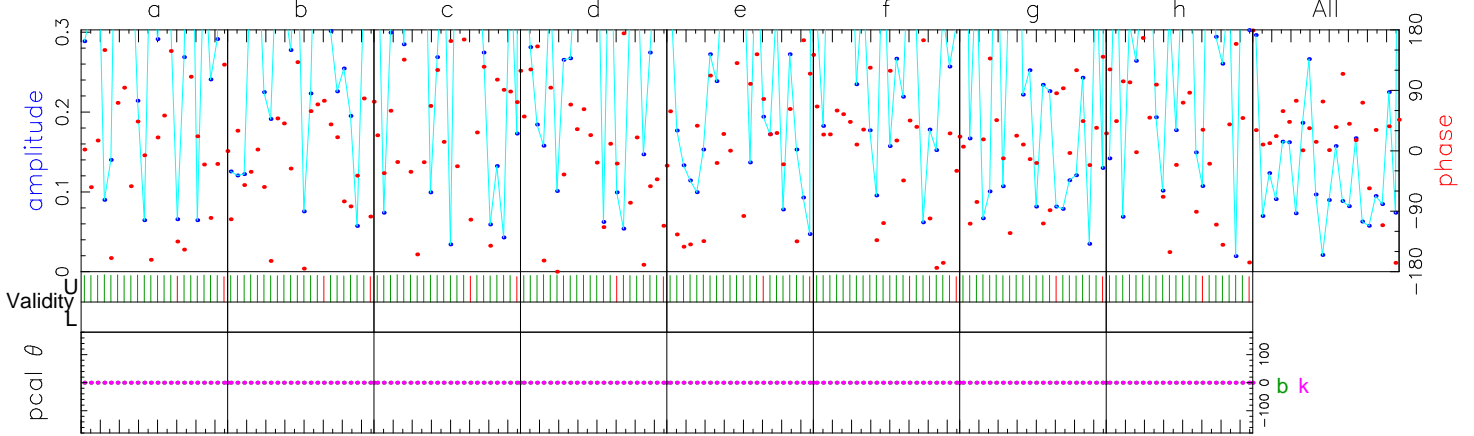


Fringe quality 0

SNR 5.7
Int time 424.113
Amp 0.101
Phase 30.6
PFD 9.7e-01
Delays (us)
SBD 0.351399
MBD -0.000615
Fringe rate (Hz)
-0.091511
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210528
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



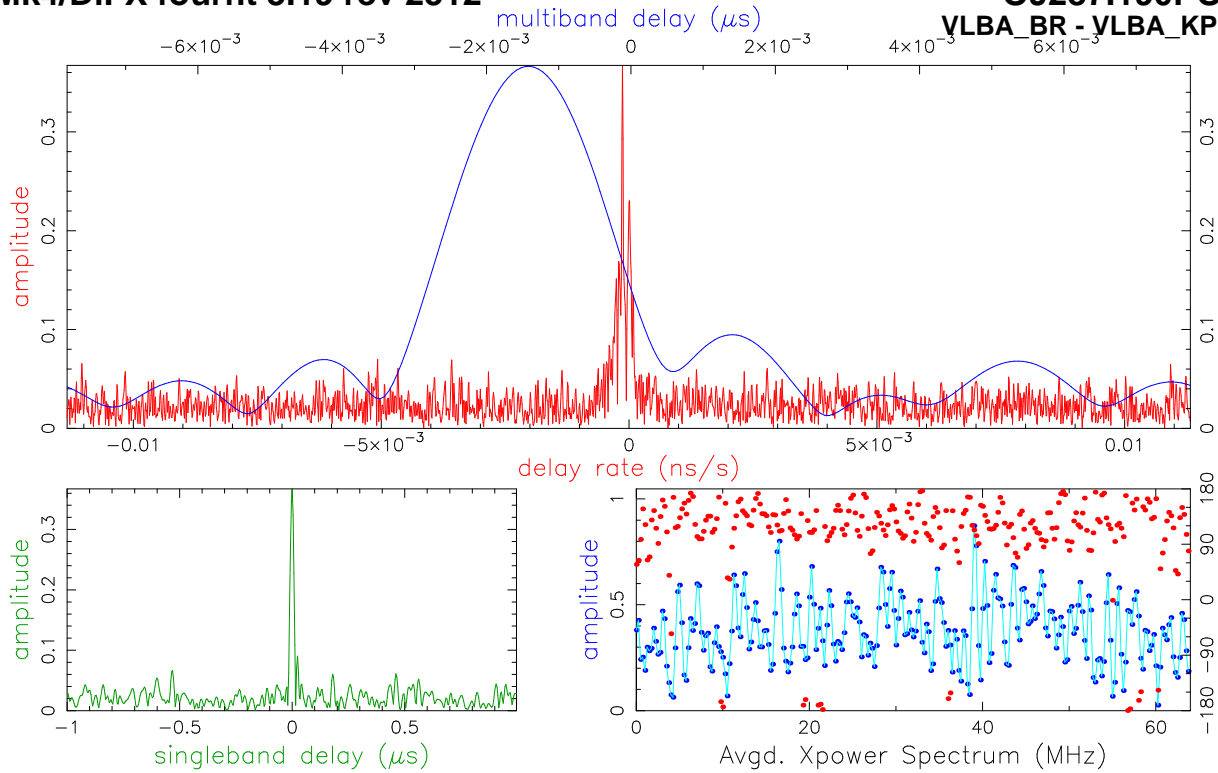
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.04304306535E+03	Apriori delay (usec)	-1.04340182567E+03	Resid mbdelay (usec)	-6.14677E-04	+/-	1.9E-04
Sband delay (usec)	-1.04305042667E+03	Apriori clock (usec)	-1.0676705E+00	Resid sbdelay (usec)	3.51399E-01	+/-	1.5E-03
Phase delay (usec)	-1.04340182468E+03	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	9.87910E-07	+/-	6.5E-07
Delay rate (us/s)	-2.39197252687E-01	Apriori rate (us/s)	-2.39196190339E-01	Resid rate (us/s)	-1.06235E-06	+/-	2.6E-09
Total phase (deg)	-64.1	Apriori accel (us/s/s)	1.38629112496E-05	Resid phase (deg)	30.6	+/-	20.2

ph/seg (deg)	56.1	RMS	48.5	Theor.	56.1	Amplitude	0.101 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	79.5	Search (2048X32)	0.099	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	23.2	Inc. seg. avg.	0.093	Inc. frq. avg.	0.095	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	28.6	Inc. frq. avg.	0.095	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite

b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.58.190POF

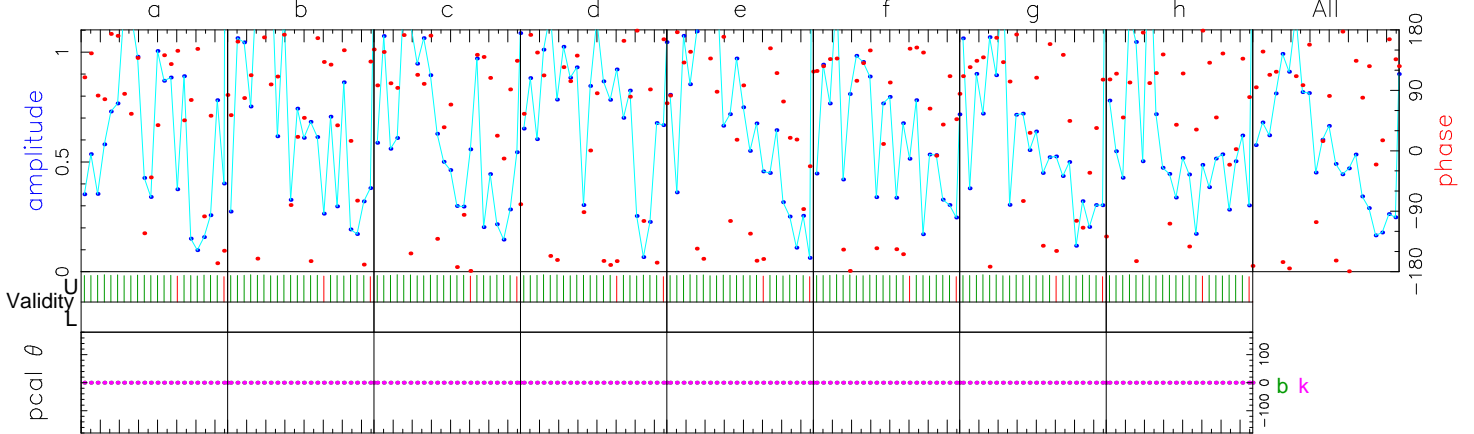


Fringe quality 9

SNR 20.7
Int time 424.112
Amp 0.367
Phase 136.3
PFD 0.0e+00
Delays (us)
SBD -0.000644
MBD -0.001437
Fringe rate (Hz)
-0.011346
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210516
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



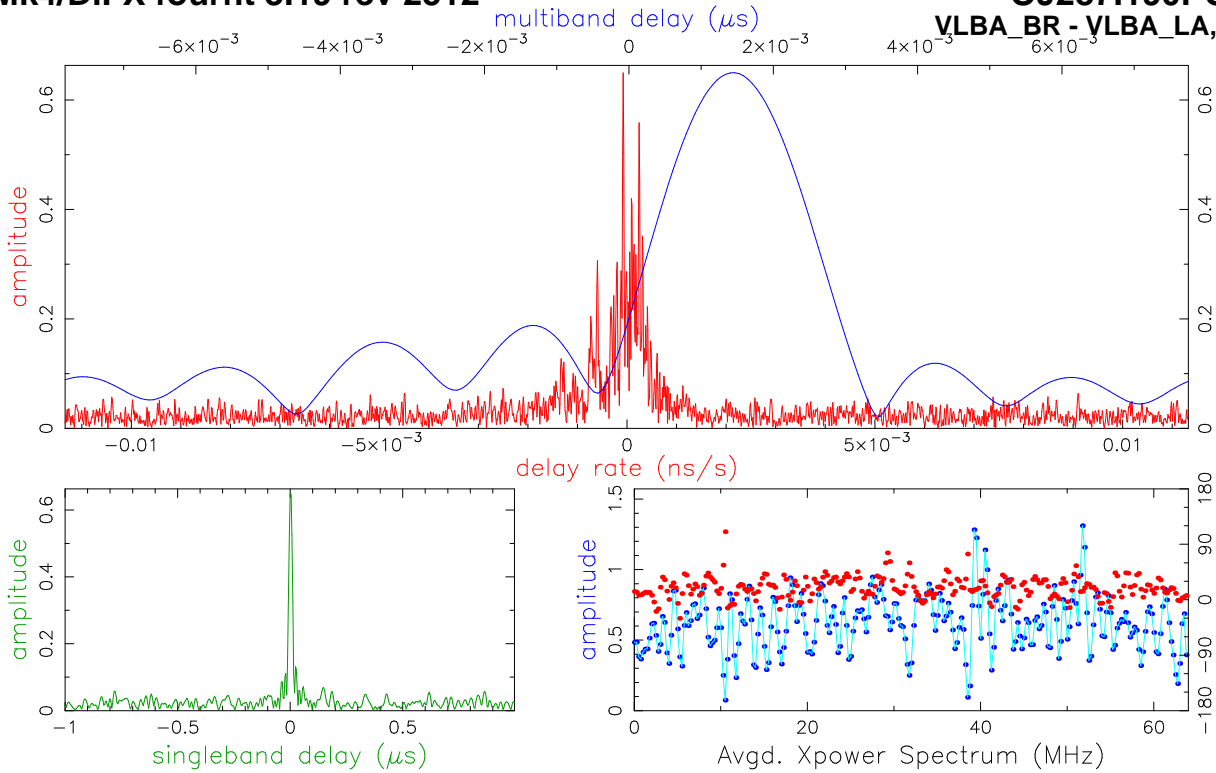
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.04340326243E+03	Apriori delay (usec)	-1.04340182567E+03	Resid mbdelay (usec)	-1.43676E-03	+/-	5.2E-05
Sband delay (usec)	-1.04340246967E+03	Apriori clock (usec)	-1.0676705E+00	Resid sbdelay (usec)	-6.44000E-04	+/-	4.2E-04
Phase delay (usec)	-1.04340182127E+03	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	4.39632E-06	+/-	1.8E-07
Delay rate (us/s)	-2.39196322054E-01	Apriori rate (us/s)	-2.39196190339E-01	Resid rate (us/s)	-1.31714E-07	+/-	7.0E-10
Total phase (deg)		Apriori accel (us/s/s)	1.38629112496E-05	Resid phase (deg)	136.3	+/-	5.5

ph/seg (deg)	65.3	RMS	13.3	Theor.	0.367 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	91.2	Search (2048X32)	0.364	Amplitude		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	14.5	Interp.	0.000	Search		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.2	Inc. seg. avg.	0.557	Inc. frq. avg.	0.371	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.371			Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.6.190POF

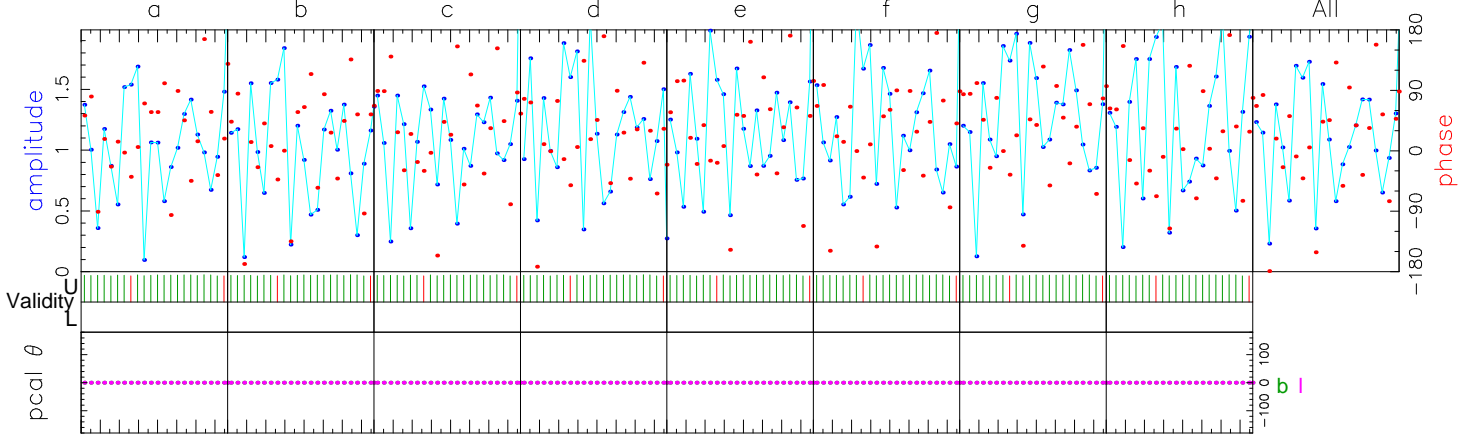


Fringe quality 6

SNR 37.5
Int time 426.572
Amp 0.663
Phase 23.7
PFD 0.0e+00
Delays (us)
SBD 0.001836
MBD 0.001485
Fringe rate (Hz)
-0.007043
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210521
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



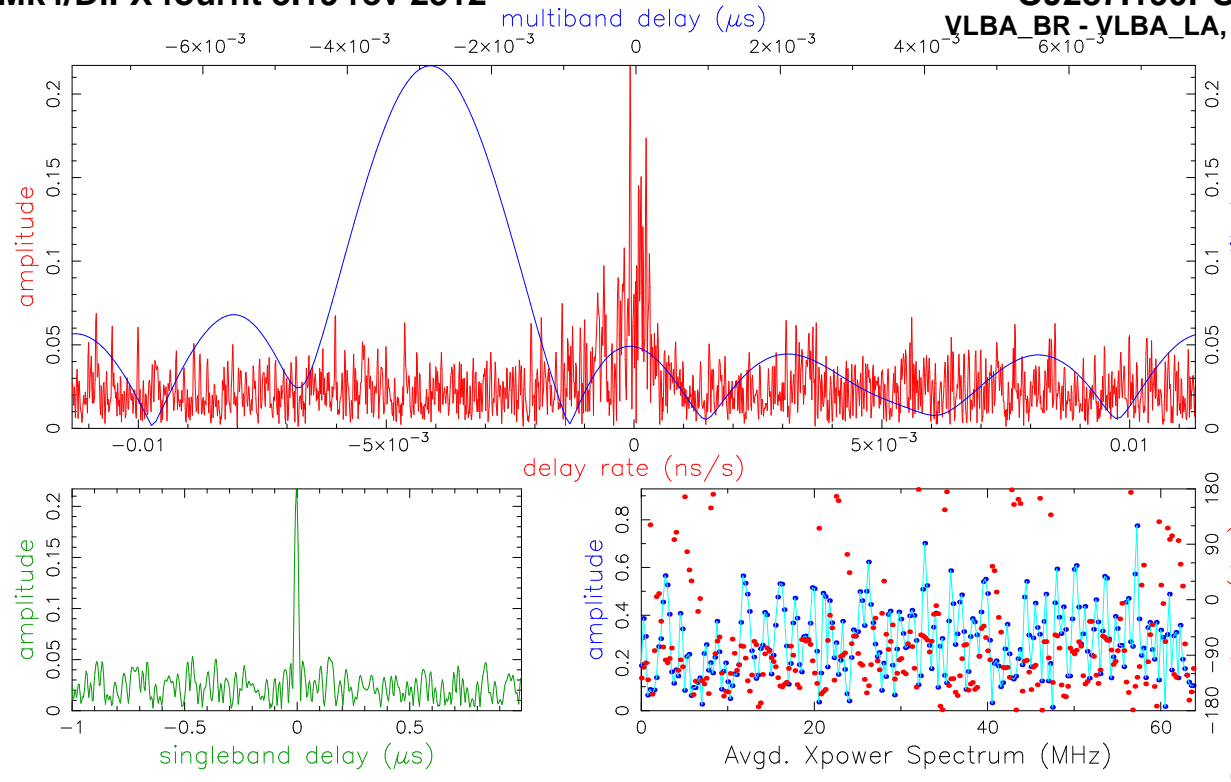
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.76168409564E+03				-2.76168558049E+03				1.48485E-03	+/- 2.9E-05
Sband delay (usec)	-2.76168374449E+03				2.3049383E+00				1.83600E-03	+/- 2.3E-04
Phase delay (usec)	-2.76168557972E+03				1.0899999E-07				7.65680E-07	+/- 9.9E-08
Delay rate (us/s)	-1.58546264816E-01				-1.58546183048E-01				-8.17676E-08	+/- 3.9E-10
Total phase (deg)			-301.4		2.08798631902E-05				23.7	+/- 3.1
	RMS	Theor.	Amplitude	0.663 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	75.4	7.3	Search (2048X32)	0.623	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	89.4	12.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	12.8	4.3	Inc. seg. avg.	1.083	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	10.6	7.6	Inc. frq. avg.	0.661	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.30.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bl
VLBA_BR - VLBA_LA, fgroup W, pol LR

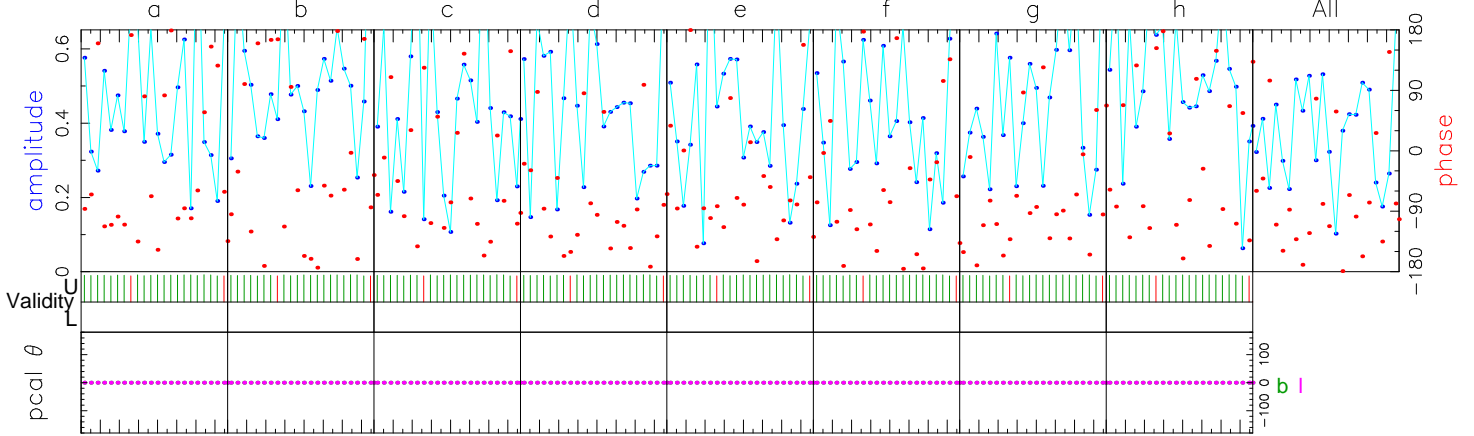


Fringe quality 9

SNR 12.3
Int time 426.572
Amp 0.217
Phase -109.1
PFD 7.5e-26
Delays (us)
SBD -0.003435
MBD -0.002839
Fringe rate (Hz)
-0.007051
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210526
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



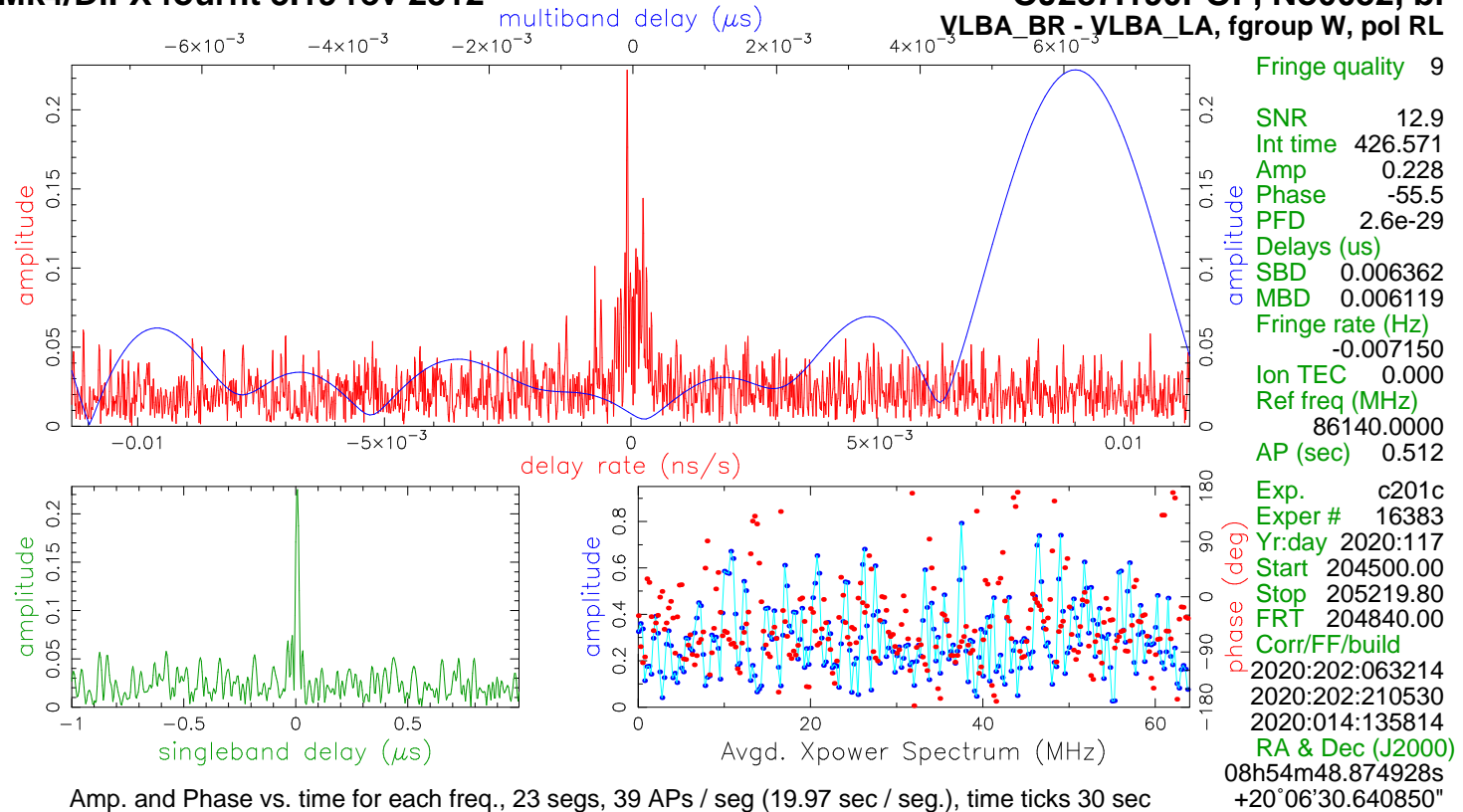
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.2	-120.8	-102.5	-111.0	-91.3	-117.3	-102.2	-122.3	Phase	-109.1
	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	255.7	256.7	91.6	256.4	255.6	255.2	256.0	256.3	Sbd box	256.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.76168841911E+03		Apriori delay (usec)		-2.76168558049E+03		Resid mbdelay (usec)		-2.83862E-03	+/- 8.9E-05
Sband delay (usec)	-2.76168901574E+03		Apriori clock (usec)		2.3049383E+00		Resid sbdelay (usec)		-3.43525E-03	+/- 7.0E-04
Phase delay (usec)	-2.76168558401E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-3.51773E-06	+/- 3.0E-07
Delay rate (us/s)	-1.58546264906E-01		Apriori rate (us/s)		-1.58546183048E-01		Resid rate (us/s)		-8.18575E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.08798631902E-05		Resid phase (deg)		-109.1	+/- 9.3

ph/seg (deg) 78.2 22.4 Search (2048X32) 0.206 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.0 39.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.5 13.2 Inc. seg. avg. 0.348 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.4 23.1 Inc. frq. avg. 0.214 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 ion window (TEC) 0.00 0.00
 simultaneous interpolator

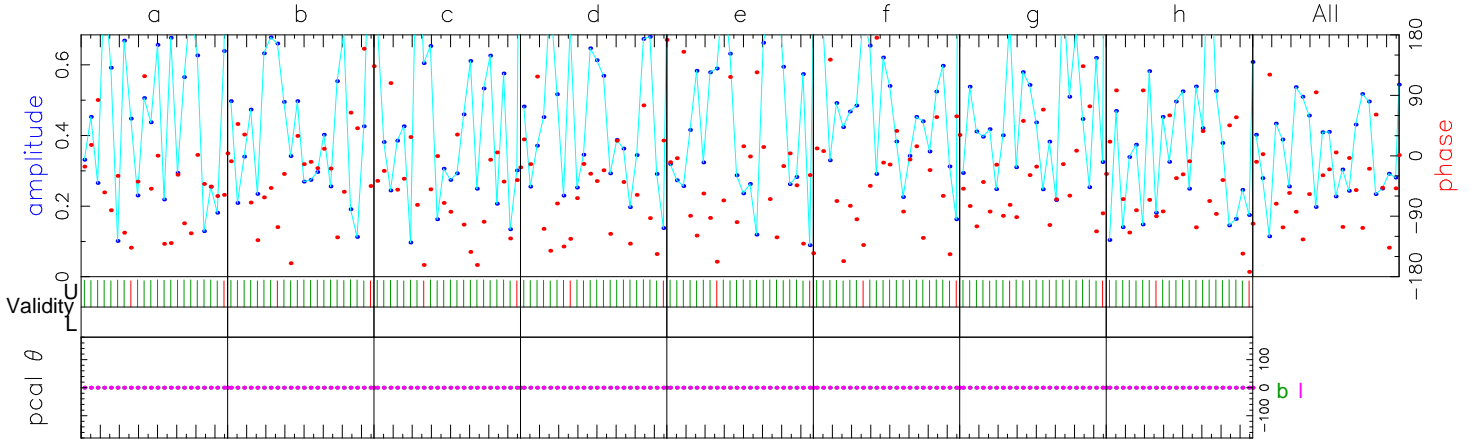
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.49.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bl
VLBA_BR - VLBA_LA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

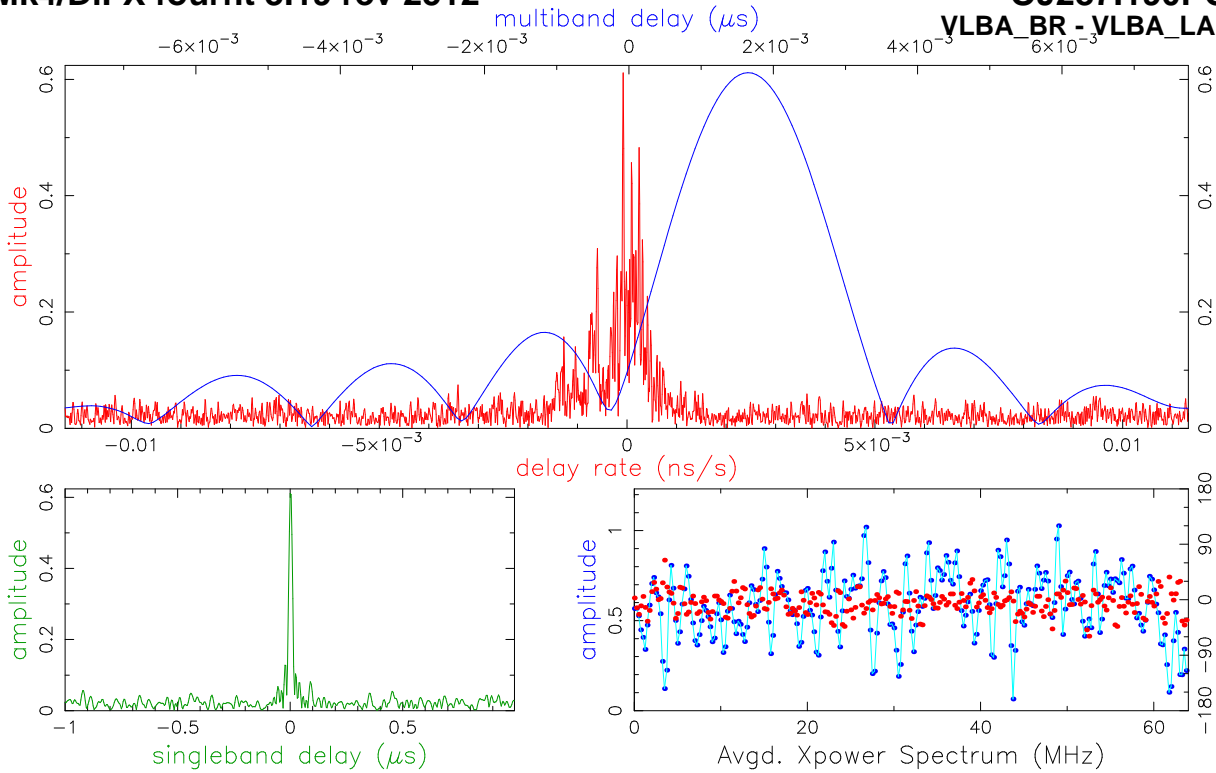


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.6	-41.6	-60.9	-62.0	-72.6	-38.3	-49.4	-56.4	Phase	-55.5
	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	258.3	258.6	258.2	257.8	258.8	259.0	259.1	259.4	Sbd box	258.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.76167946152E+03		Apriori delay (usec)	-2.76168558049E+03	Resid mbdelay (usec)	6.11897E-03	+/-	8.4E-05		
Sband delay (usec)	-2.76167921874E+03		Apriori clock (usec)	2.3049383E+00	Resid sbdelay (usec)	6.36175E-03	+/-	6.7E-04		
Phase delay (usec)	-2.76168558228E+03		Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	-1.79096E-06	+/-	2.9E-07		
Delay rate (us/s)	-1.58546266050E-01		Apriori rate (us/s)	-1.58546183048E-01	Resid rate (us/s)	-8.30019E-08	+/-	1.1E-09		
Total phase (deg)		-20.7	Apriori accel (us/s/s)	2.08798631902E-05	Resid phase (deg)	-55.5	+/-	8.9		

	RMS	Theor.	Amplitude	0.228 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	68.2	21.3	Search (2048X32)	0.209	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	73.4	37.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	12.7	12.6	Inc. seg. avg.	0.326	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	12.7	21.9	Inc. frq. avg.	0.224	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.71.190POF

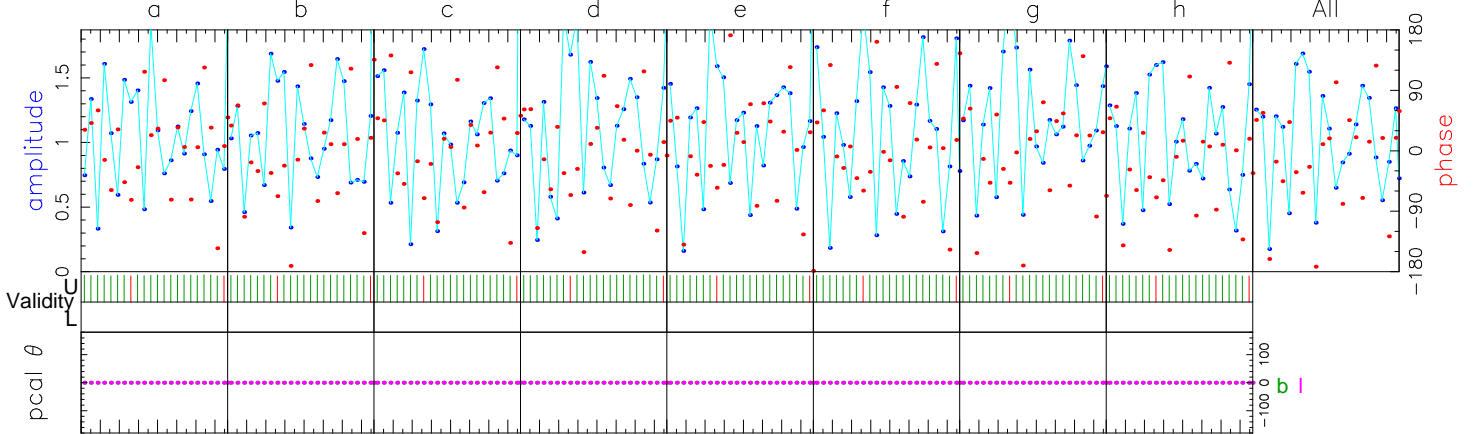


Fringe quality 7

SNR 35.2
Int time 426.570
Amp 0.624
Phase -3.9
PFD 0.0e+00
Delays (us)
SBD 0.001837
MBD 0.001690
Fringe rate (Hz)
-0.007017
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210516
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

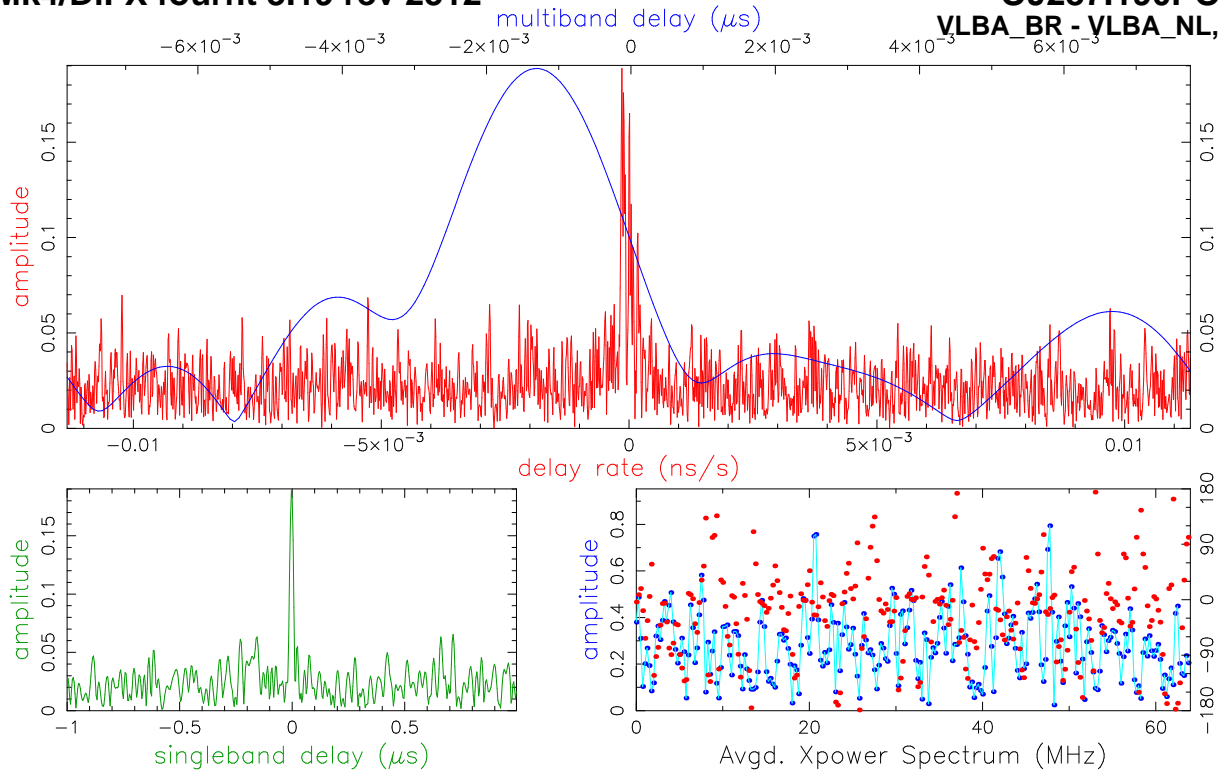
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.76168389024E+03				-2.76168558049E+03				1.69025E-03	+/- 3.1E-05
Sband delay (usec)	-2.76168374374E+03				2.3049383E+00				1.83675E-03	+/- 2.4E-04
Phase delay (usec)	-2.76168558061E+03				1.0899999E-07				-1.24491E-03	+/- 1.0E-07
Delay rate (us/s)	-1.58546264507E-01				-1.58546183048E-01				-8.14586E-08	+/- 4.1E-10
Total phase (deg)			-329.0		2.08798631902E-05				-3.9	+/- 3.3
	RMS	Theor.	Amplitude	0.624 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	75.7	7.8	Search (2048X32)	0.581	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	93.1	13.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	7.2	4.6	Inc. seg. avg.	1.034	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	8.6	8.0	Inc. frq. avg.	0.613	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

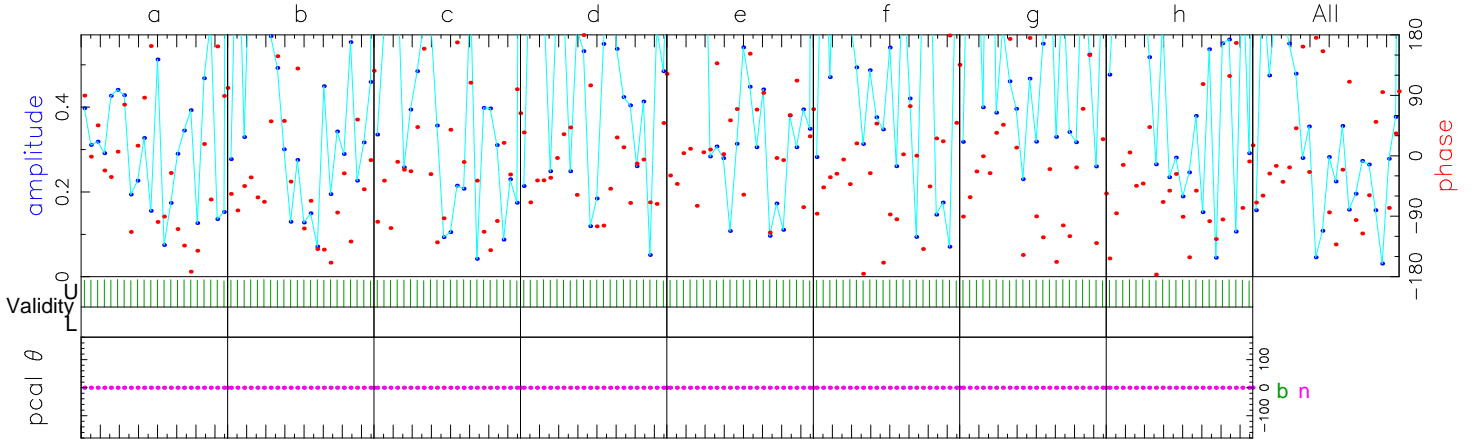
b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.8.190POF



Fringe quality 9
SNR 10.8
Int time 430.596
Amp 0.190
Phase -35.0
PFD 1.7e-18
Delays (us)
SBD -0.002647
MBD -0.001287
Fringe rate (Hz) -0.012127
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210517
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

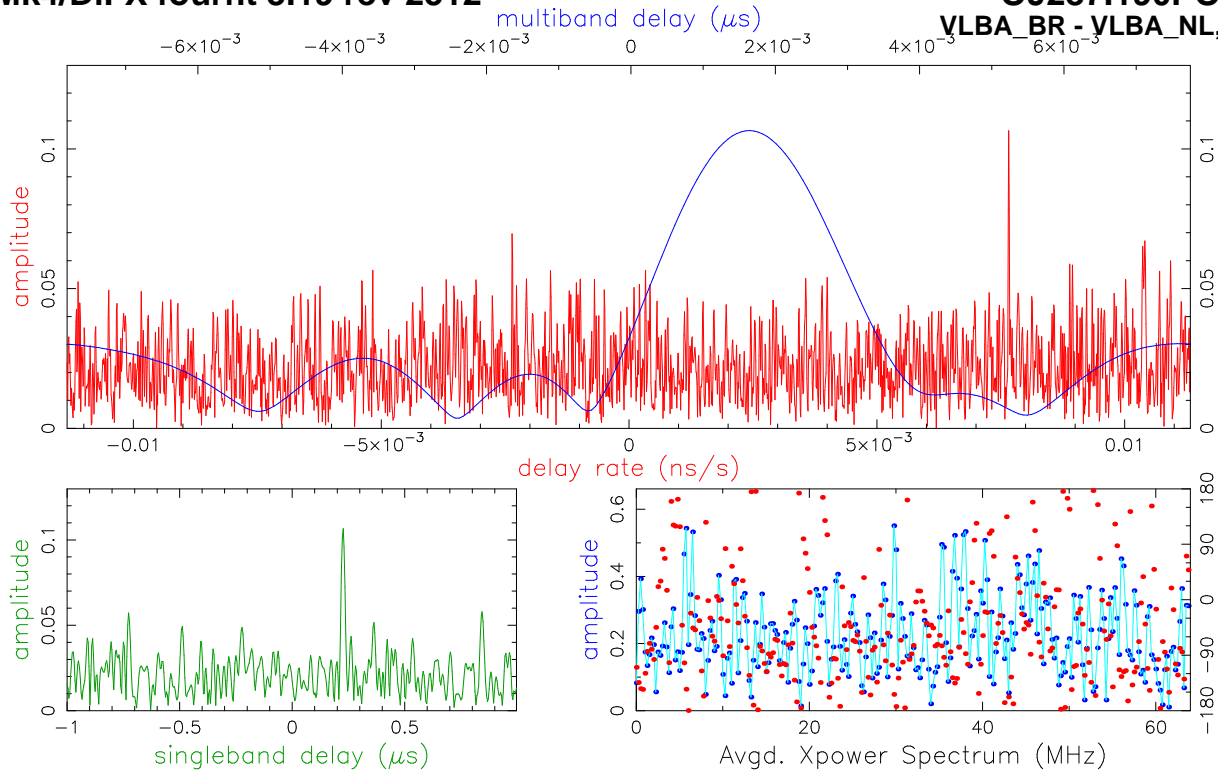
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.46826560372E+03				-6.46826431719E+03					
Sband delay (usec)	-6.46826696394E+03				-3.3710777E+01					
Phase delay (usec)	-6.46826431832E+03				-3.7599999E-07					
Delay rate (us/s)	4.83264351861E-02				4.83265759658E-02					
Total phase (deg)			-136.7		3.72521691475E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

	RMS	Theor.	Amplitude	0.190 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	85.3	25.5	Search (2048X32)	0.183	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	122.3	44.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	24.1	15.0	Inc. seg. avg.	0.293	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	37.7	26.2	Inc. frq. avg.	0.195	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 78.2 el 16.5 pa -44.1 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) -233.688 1722.834 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bn..190POF Output file: /Exps/c201c/v1/1234/No0032/bn.W.12.190POF

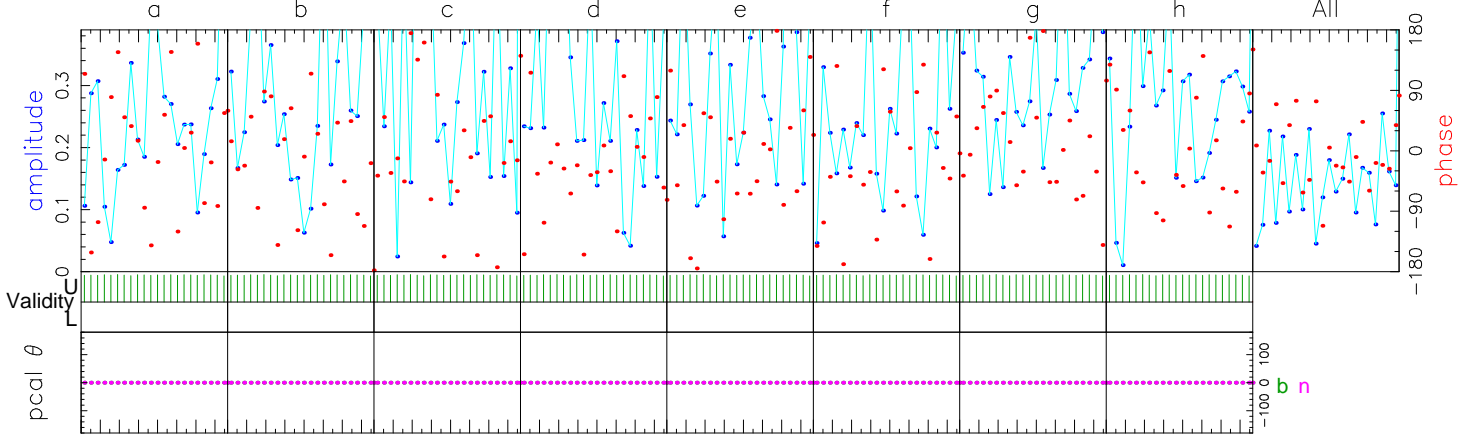


Fringe quality 0

SNR 6.1
Int time 430.596
Amp 0.130
Phase -15.6
PFD 3.0e-01
Delays (us)
SBD 0.225911
MBD 0.001610
Fringe rate (Hz) 0.660925
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

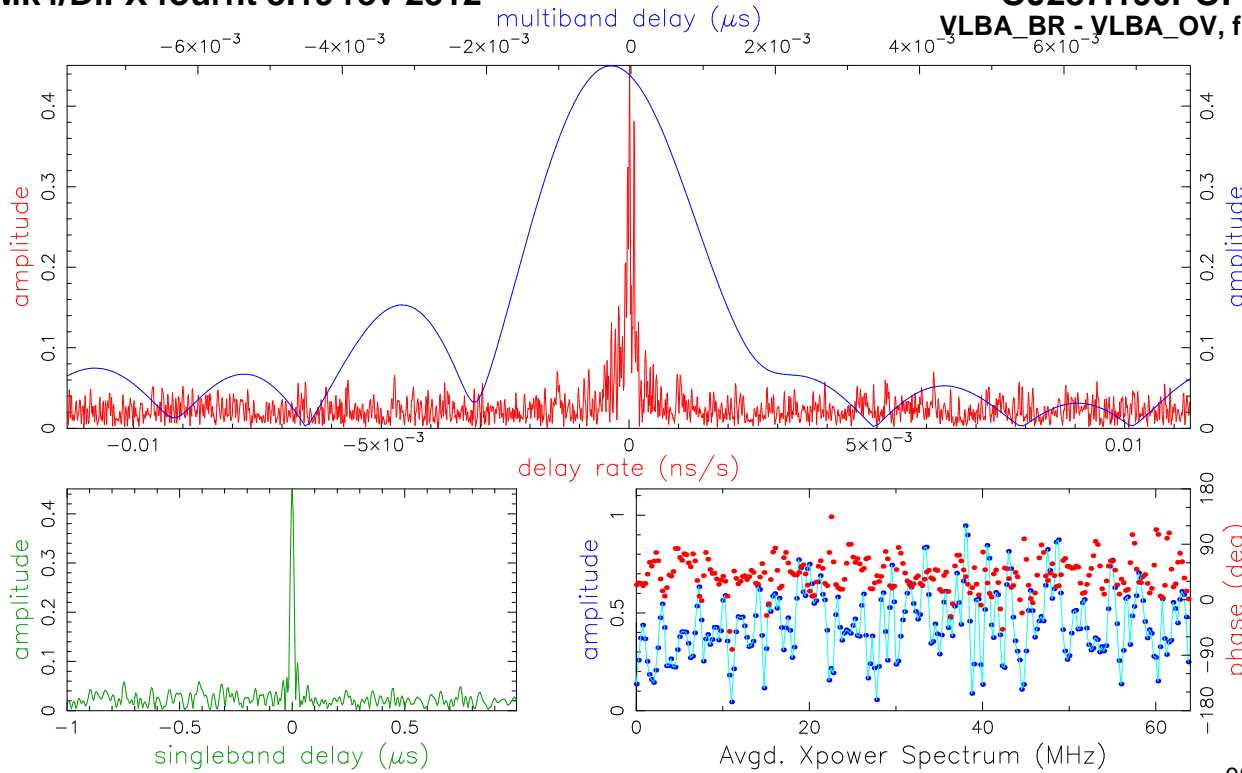
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210523
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
0.5	-22.5	-16.4	-25.9	-3.5	-27.5	-3.9	-22.4	-15.6	Phase	-15.6
0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
211.2	29.6	283.1	315.1	171.8	497.4	313.8	59.0	314.8	Sbd box	314.8
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
n W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.46804395749E+03		Apriori delay (usec)	-6.46826431719E+03		Resid mbdelay (usec)	1.60970E-03	+/-	1.8E-04	
Sband delay (usec)	-6.46803840644E+03		Apriori clock (usec)	-3.3710777E+01		Resid sbdelay (usec)	2.25911E-01	+/-	1.4E-03	
Phase delay (usec)	-6.46826431769E+03		Apriori clockrate (us/s)	-3.7599999E-07		Resid phdelay (usec)	-5.02417E-07	+/-	6.1E-07	
Delay rate (us/s)	4.83342486444E-02		Apriori rate (us/s)	4.83265759658E-02		Resid rate (us/s)	7.67268E-06	+/-	2.4E-09	
Total phase (deg)		-117.3	Apriori accel (us/s/s)	3.72521691475E-05		Resid phase (deg)	-15.6	+/-	18.9	

ph/seg (deg) 47.8 45.4 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.3 79.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.1 26.7 Inc. seg. avg. 0.133 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.7 46.7 Inc. frq. avg. 0.119 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) -233.688 1722.834 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bn..190POF Output file: /Exps/c201c/v1/1234/No0032/bn.W.37.190POF

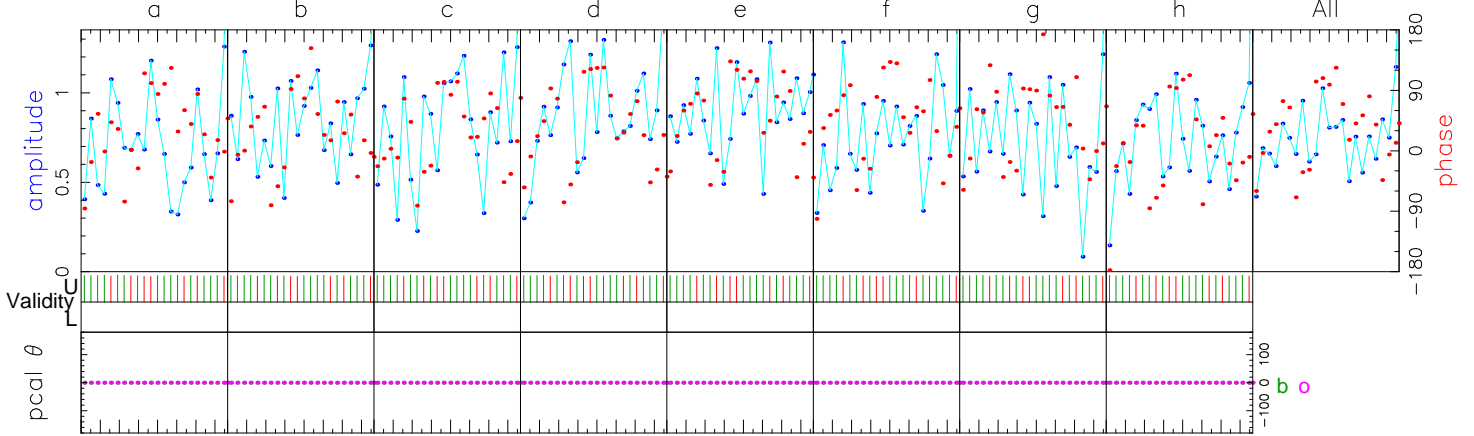


Fringe quality 7

SNR 25.3
Int time 420.795
Amp 0.451
Phase 37.5
PFD 0.0e+00
Delays (us)
SBD -0.000422
MBD -0.000288
Fringe rate (Hz)
0.001177
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

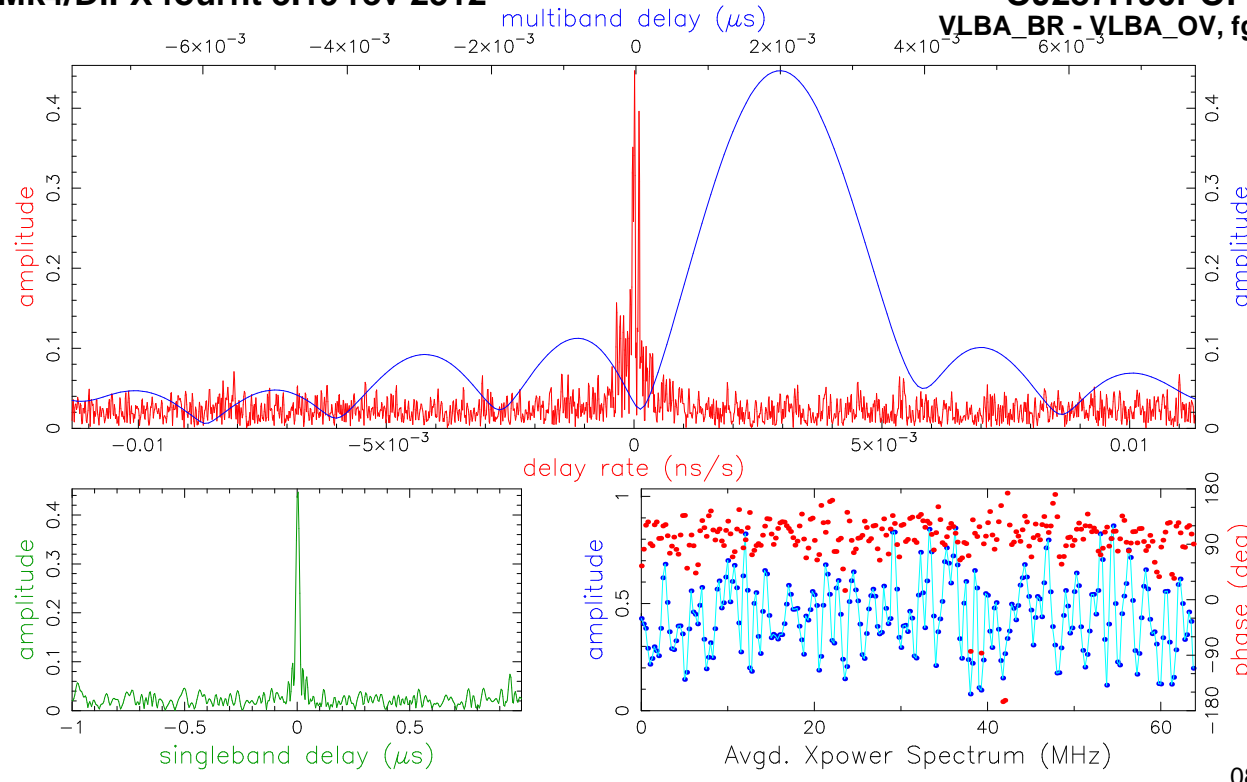
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210517
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.33002261313E+02		Apriori delay (usec)		4.33002548818E+02		Resid mbdelay (usec)		-2.87505E-04	+/- 4.3E-05
Sband delay (usec)	4.33002127068E+02		Apriori clock (usec)		-2.1506449E+01		Resid sbdelay (usec)		-4.21750E-04	+/- 3.4E-04
Phase delay (usec)	4.33002550025E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		1.20793E-06	+/- 1.5E-07
Delay rate (us/s)	-1.84830623819E-01		Apriori rate (us/s)		-1.84830637477E-01		Resid rate (us/s)		1.36582E-08	+/- 5.8E-10
Total phase (deg)	237.3		Apriori accel (us/s/s)		2.98020100371E-06		Resid phase (deg)		37.5	+/- 4.5

ph/seg (deg) 55.0 10.9 Search (2048X32) 0.435 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 73.9 19.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 17.0 6.4 Inc. seg. avg. 0.726 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 10.6 11.2 Inc. frq. avg. 0.462 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 78.2 el 16.5 pa -44.1 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 1129.776 1241.643 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bo..190POF Output file: /Exps/c201c/v1/1234/No0032/bo.W.14.190POF

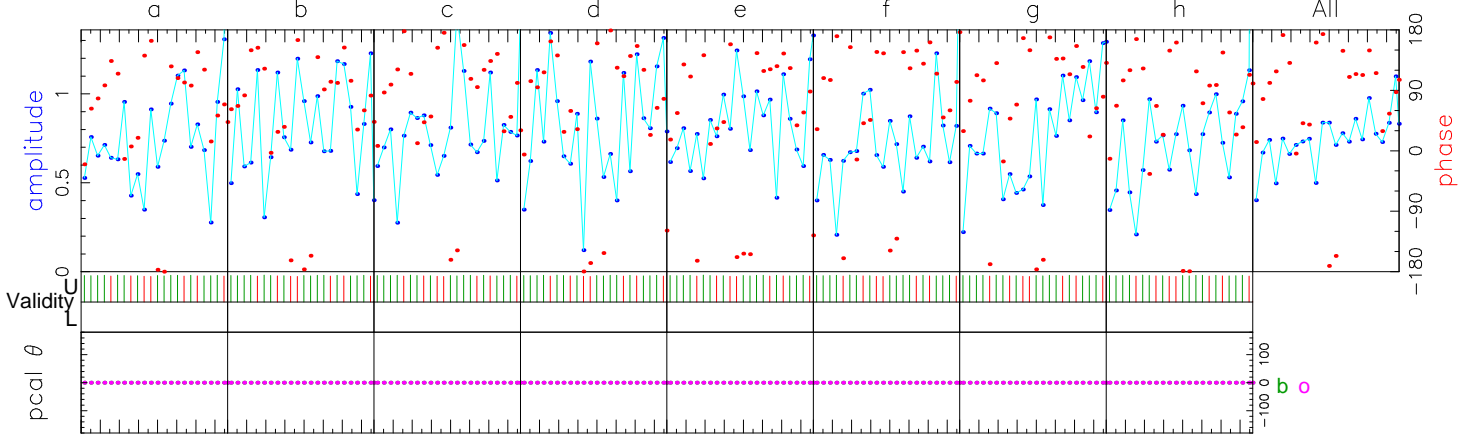


Fringe quality 7

SNR 25.4
Int time 420.796
Amp 0.453
Phase 110.8
PFD 0.0e+00
Delays (us)
SBD 0.002375
MBD 0.001961
Fringe rate (Hz) 0.001249
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210522
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

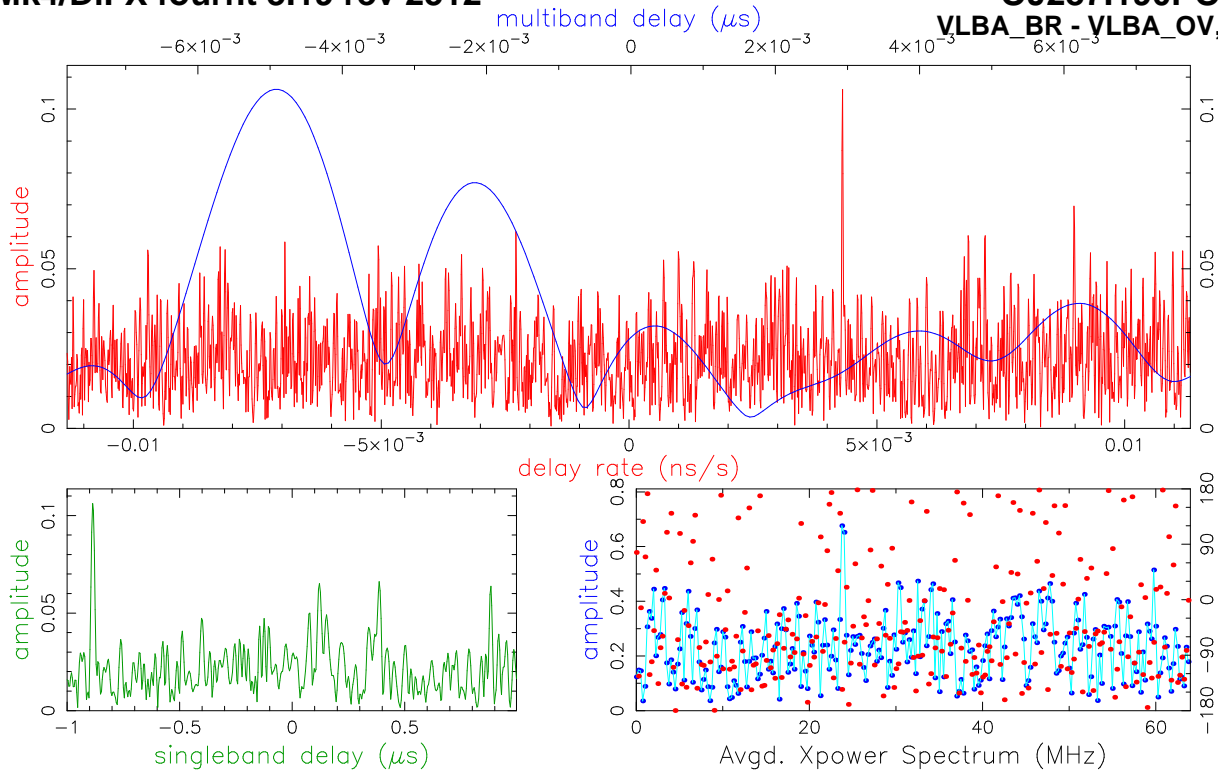


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
o	1000	1000	1000	1000	1000	1000	1000	1000		1000
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	4.33004510000E+02		Apriori delay (usec)		4.33002548818E+02		Resid mbdelay (usec)		1.96118E-03	+/- 4.3E-05
Sband delay (usec)	4.33004923818E+02		Apriori clock (usec)		-2.1506449E+01		Resid sbdelay (usec)		2.37500E-03	+/- 3.4E-04
Phase delay (usec)	4.33002552391E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		3.57338E-06	+/- 1.5E-07
Delay rate (us/s)	-1.84830622980E-01		Apriori rate (us/s)		-1.84830637477E-01		Resid rate (us/s)		1.44971E-08	+/- 5.7E-10
Total phase (deg)	310.7		Apriori accel (us/s/s)		2.98020100371E-06		Resid phase (deg)		110.8	+/- 4.5

ph/seg (deg) 57.4 10.8 Theor. Amplitude 0.453 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.4 18.9 Search (2048X32) 0.435 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.2 6.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 9.5 11.1 Inc. seg. avg. 0.729 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.449 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 1129.776 1241.643 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bo..190POF Output file: /Exps/c201c/v1/1234/No0032/bo.W.33.190POF

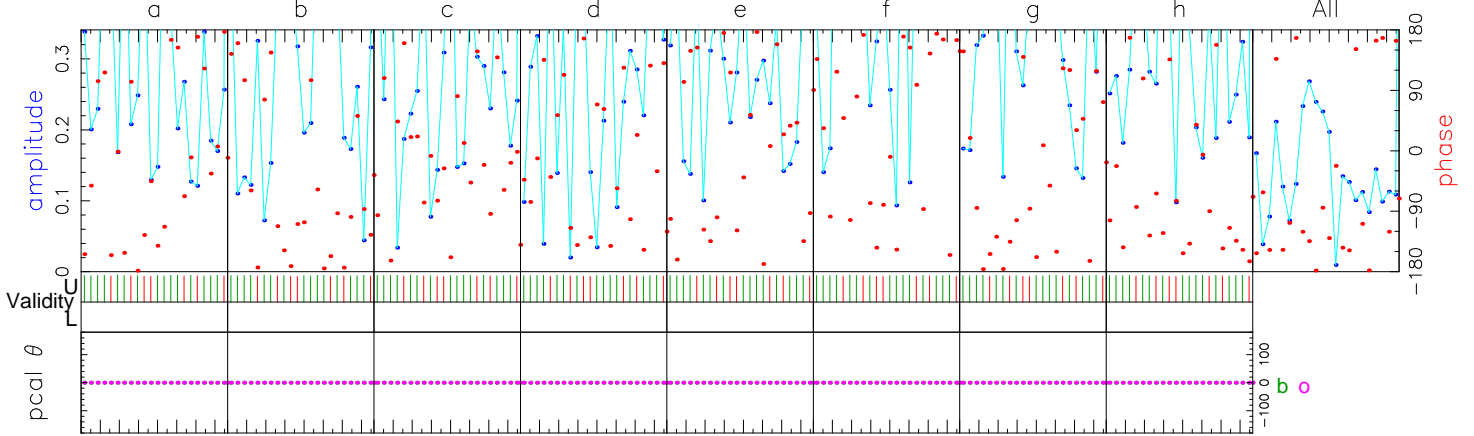


Fringe quality 0

SNR 6.0
Int time 420.795
Amp 0.114
Phase -151.3
PFD 3.9e-01
Delays (us)
SBD -0.885526
MBD -0.004888
Fringe rate (Hz)
0.371347
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210527
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

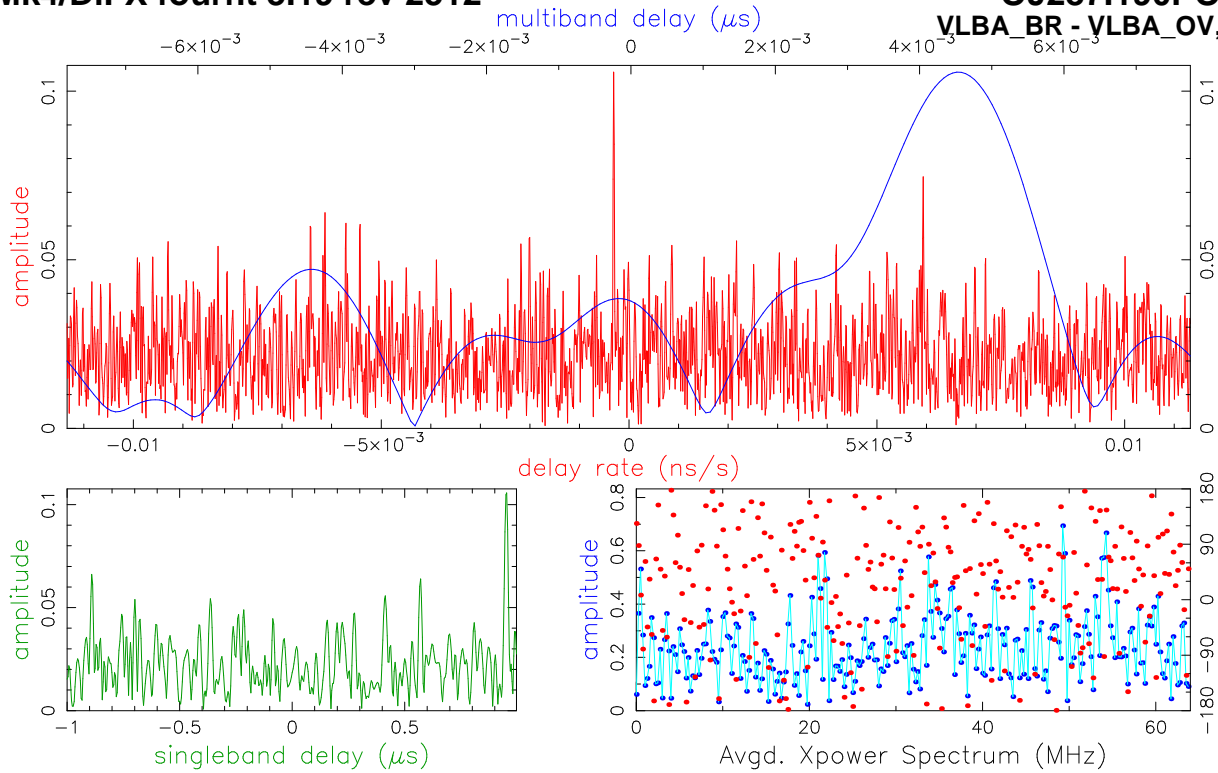


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-161.6	-145.3	-86.1	-132.2	-150.9	169.6	-154.8	-133.2	Phase	-151.3
	0.1	0.2	0.1	0.0	0.1	0.2	0.1	0.2	Ampl.	0.1
	319.3	174.6	9.1	132.2	155.5	30.9	442.0	30.0	Sbd box	30.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.32122660877E+02		Apriori delay (usec)		4.33002548818E+02		Resid mbdelay (usec)		-4.88794E-03	+/- 1.8E-04
Sband delay (usec)	4.32117022318E+02		Apriori clock (usec)		-2.1506449E+01		Resid sbdelay (usec)		-8.85526E-01	+/- 1.4E-03
Phase delay (usec)	4.33002543939E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-4.87818E-06	+/- 6.2E-07
Delay rate (us/s)	-1.84826326510E-01		Apriori rate (us/s)		-1.84830637477E-01		Resid rate (us/s)		4.31097E-06	+/- 2.4E-09
Total phase (deg)	48.6		Apriori accel (us/s/s)		2.98020100371E-06		Resid phase (deg)		-151.3	+/- 19.1

	RMS	Theor.	Amplitude	0.114 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	49.0	45.8	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	70.1	79.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	33.2	27.0	Inc. seg. avg.	0.110	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	46.8	47.1	Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

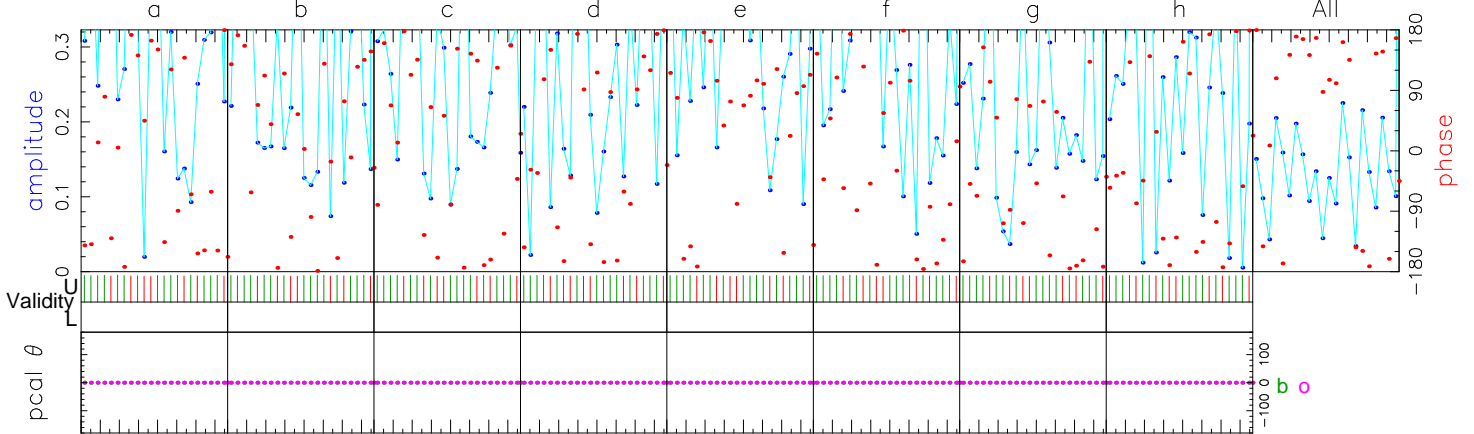
b: az 78.2 el 16.5 pa -44.1 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 1129.776 1241.643 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bo..190POF Output file: /Exps/c201c/v1/1234/No0032/bo.W.55.190POF



Fringe quality 0
SNR 6.0
Int time 420.796
Amp 0.108
Phase 161.6
PFD 3.4e-01
Delays (us)
SBD 0.951362
MBD 0.004511
Fringe rate (Hz)
-0.026907
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210531
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

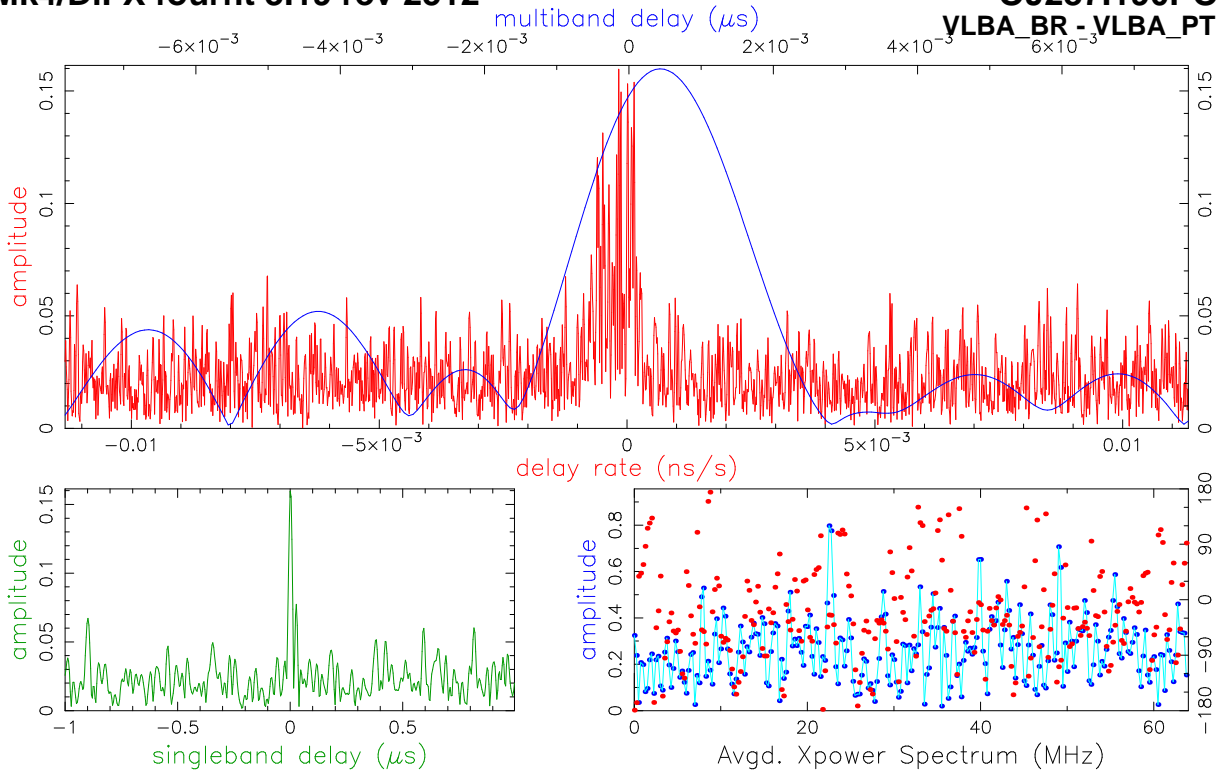


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-173.8	137.6	163.7	163.2	113.6	175.2	160.8	-163.0	Phase	161.6
	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	293.5	83.5	404.0	394.7	501.1	232.6	328.2	202.7	Sbd box	500.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.33960184604E+02		Apriori delay (usec)		4.33002548818E+02		Resid mbdelay (usec)		4.51079E-03	+/- 1.8E-04
Sband delay (usec)	4.33953911068E+02		Apriori clock (usec)		-2.1506449E+01		Resid sbdelay (usec)		9.51362E-01	+/- 1.4E-03
Phase delay (usec)	4.33002554029E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		5.21100E-06	+/- 6.1E-07
Delay rate (us/s)	-1.84830949842E-01		Apriori rate (us/s)		-1.84830637477E-01		Resid rate (us/s)		-3.12365E-07	+/- 2.4E-09
Total phase (deg)	1.4		Apriori accel (us/s/s)		2.98020100371E-06		Resid phase (deg)		161.6	+/- 19.0

ph/seg (deg) 49.3 45.5 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 60.7 79.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.7 26.8 Inc. seg. avg. 0.101 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 36.4 46.9 Inc. frq. avg. 0.106 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 78.2 el 16.5 pa -44.1 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 1129.776 1241.643 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bo..190POF Output file: /Exps/c201c/v1/1234/No0032/bo.W.72.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bp
VLBA_BR - VLBA_PT, fgroup W, pol LL

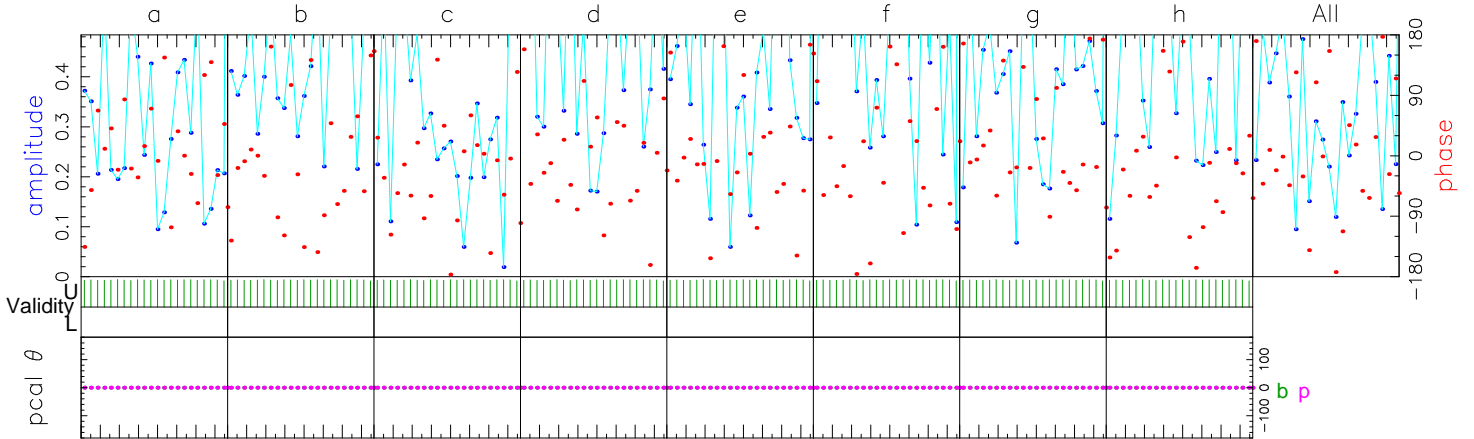


Fringe quality 9

SNR 9.2
Int time 431.619
Amp 0.161
Phase -22.4
PFD 1.9e-11
Delays (us)
SBD 0.001382
MBD 0.000488
Fringe rate (Hz) -0.014184
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210518
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



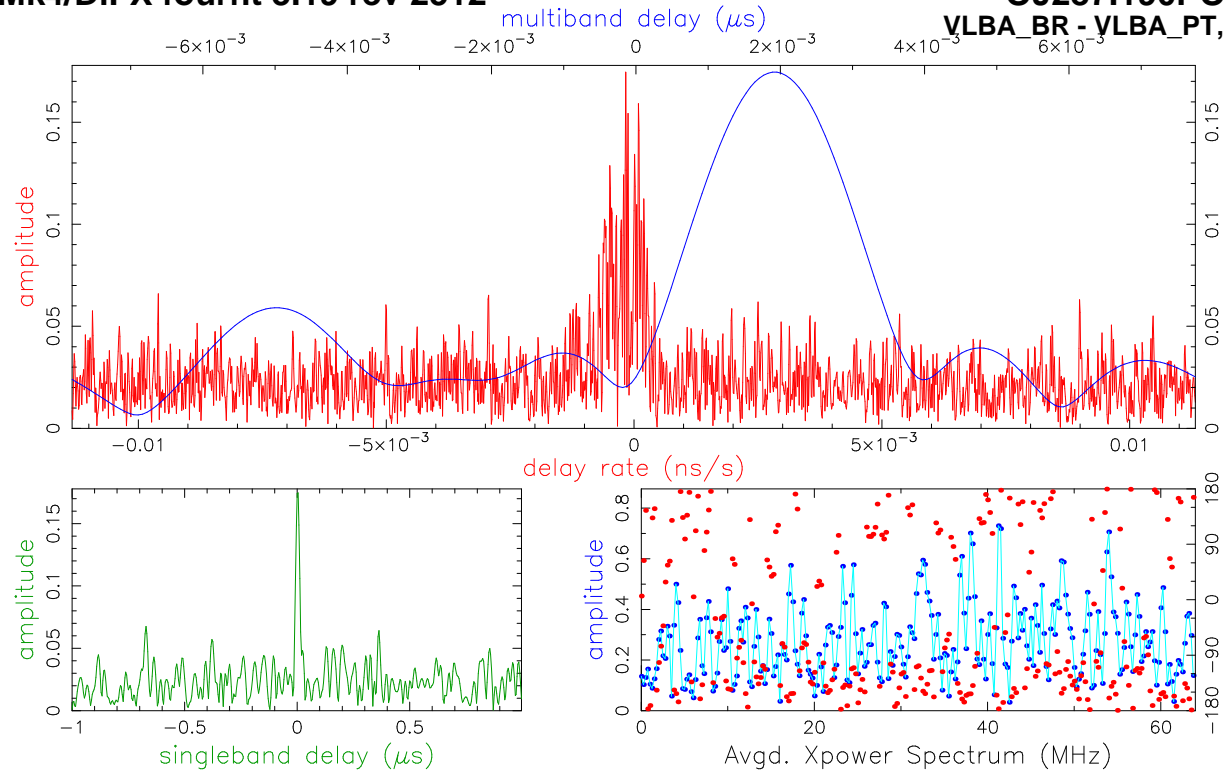
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.8	-53.8	-19.2	-20.8	-19.7	-29.1	-3.9	-38.8	Phase	-22.4
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	26.5	488.2	365.8	257.2	257.5	97.0	117.9	257.7	Sbd box	257.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.19847799867E+03	Apriori delay (usec)	-2.19847848636E+03	Resid mbdelay (usec)	4.87695E-04	+/-	1.2E-04
Sband delay (usec)	-2.19847710461E+03	Apriori clock (usec)	-1.8697998E+01	Resid sbdelay (usec)	1.38175E-03	+/-	9.4E-04
Phase delay (usec)	-2.19847848708E+03	Apriori clockrate (us/s)	-2.4600000E-07	Resid phdelay (usec)	-7.22285E-07	+/-	4.0E-07
Delay rate (us/s)	-1.90184702890E-01	Apriori rate (us/s)	-1.90184538228E-01	Resid rate (us/s)	-1.64662E-07	+/-	1.6E-09
Total phase (deg)	-315.9	Apriori accel (us/s/s)	1.85858257494E-05	Resid phase (deg)	-22.4	+/-	12.5

ph/seg (deg)	95.7	Theor.	30.0	Amplitude	0.161 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	135.8	Search (2048X32)	0.158	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	18.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	21.5	Inc. seg. avg.	0.291	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.157	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bp..190POF Output file: /Exps/c201c/v1/1234/No0032/bp.W.15.190POF

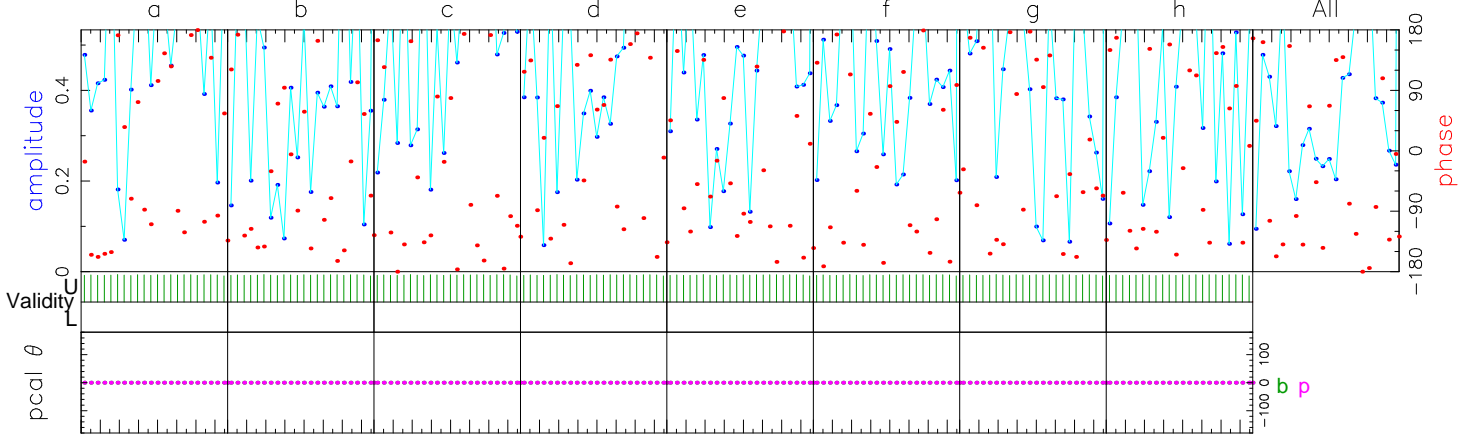


Fringe quality 9

SNR 10.1
Int time 431.619
Amp 0.178
Phase -155.3
PFD 2.3e-15
Delays (us)
SBD 0.002010
MBD 0.001908
Fringe rate (Hz) -0.014561
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

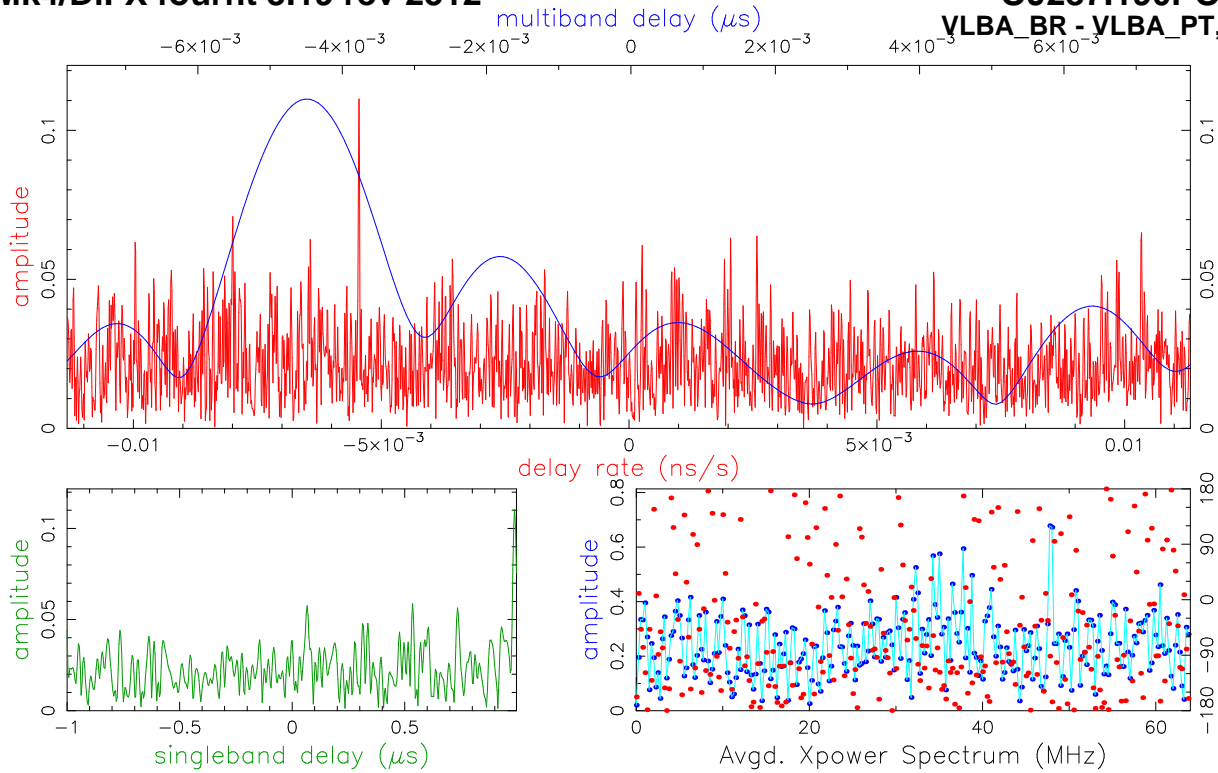
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210523
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-163.9	-144.2	-150.5	-171.8	-128.8	-174.8	-145.4	-161.0	Phase	-155.3
	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	257.3	160.9	257.3	257.9	209.9	285.3	256.8	349.4	Sbd box	257.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.19847657857E+03		Apriori delay (usec)		-2.19847848636E+03		Resid mbdelay (usec)		1.90779E-03	+/- 1.1E-04
Sband delay (usec)	-2.19847647686E+03		Apriori clock (usec)		-1.8697998E+01		Resid sbdelay (usec)		2.00950E-03	+/- 8.5E-04
Phase delay (usec)	-2.19847849137E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-5.00689E-06	+/- 3.7E-07
Delay rate (us/s)	-1.90184707263E-01		Apriori rate (us/s)		-1.90184538228E-01		Resid rate (us/s)		-1.69035E-07	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.85858257494E-05		Resid phase (deg)		-155.3	+/- 11.3

ph/seg (deg) 80.0 27.2 Search (2048X32) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 135.7 47.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.8 16.0 Inc. seg. avg. 0.321 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.7 28.0 Inc. frq. avg. 0.173 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bp..190POF Output file: /Exps/c201c/v1/1234/No0032/bp.W.35.190POF

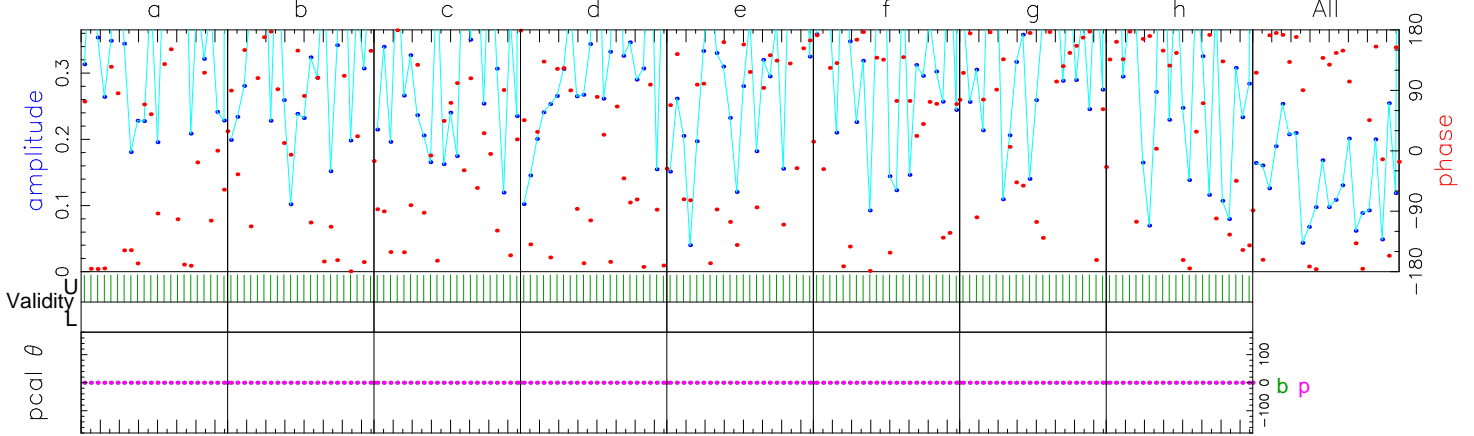


Fringe quality 0

SNR 6.3
Int time 431.619
Amp 0.122
Phase 157.5
PFD 8.9e-02
Delays (us)
SBD 0.988192
MBD -0.004493
Fringe rate (Hz)
-0.470238
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

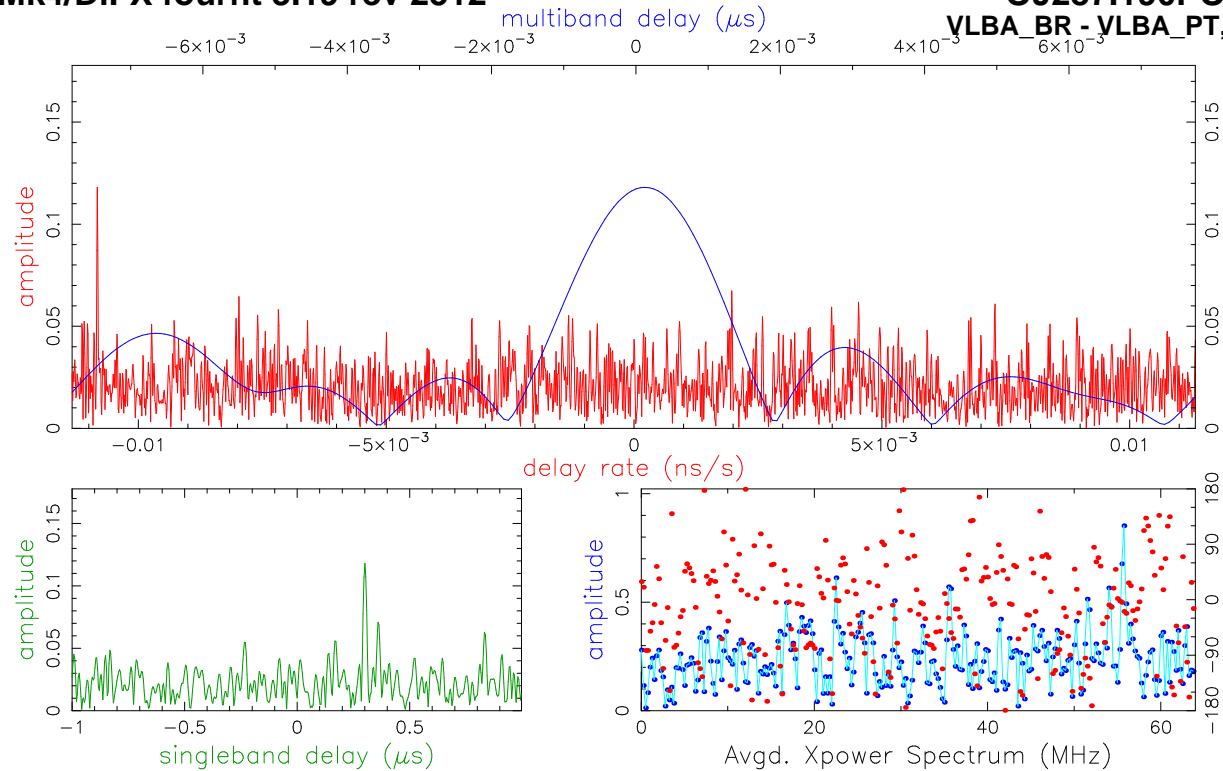
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210527
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
163.8	147.1	-90.2	132.4	152.9	142.5	160.7	168.1	168.1	Phase	157.5
0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.1
461.2	320.7	232.0	271.3	102.2	177.7	509.2	510.1	510.1	Sbd box	510.0
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.19748297937E+03		Apriori delay (usec)		-2.19847848636E+03		Resid mbdelay (usec)		-4.49301E-03	+/- 1.7E-04
Sband delay (usec)	-2.19749029461E+03		Apriori clock (usec)		-1.8697998E+01		Resid sbdelay (usec)		9.88192E-01	+/- 1.4E-03
Phase delay (usec)	-2.19847848128E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		5.07905E-06	+/- 5.9E-07
Delay rate (us/s)	-1.90189997224E-01		Apriori rate (us/s)		-1.90184538228E-01		Resid rate (us/s)		-5.45900E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.85858257494E-05		Resid phase (deg)		157.5	+/- 18.3

ph/seg (deg) 54.3 43.8 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.3 76.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.9 25.8 Inc. seg. avg. 0.121 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.3 45.1 Inc. frq. avg. 0.123 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bp..190POF Output file: /Exps/c201c/v1/1234/No0032/bp.W.56.190POF

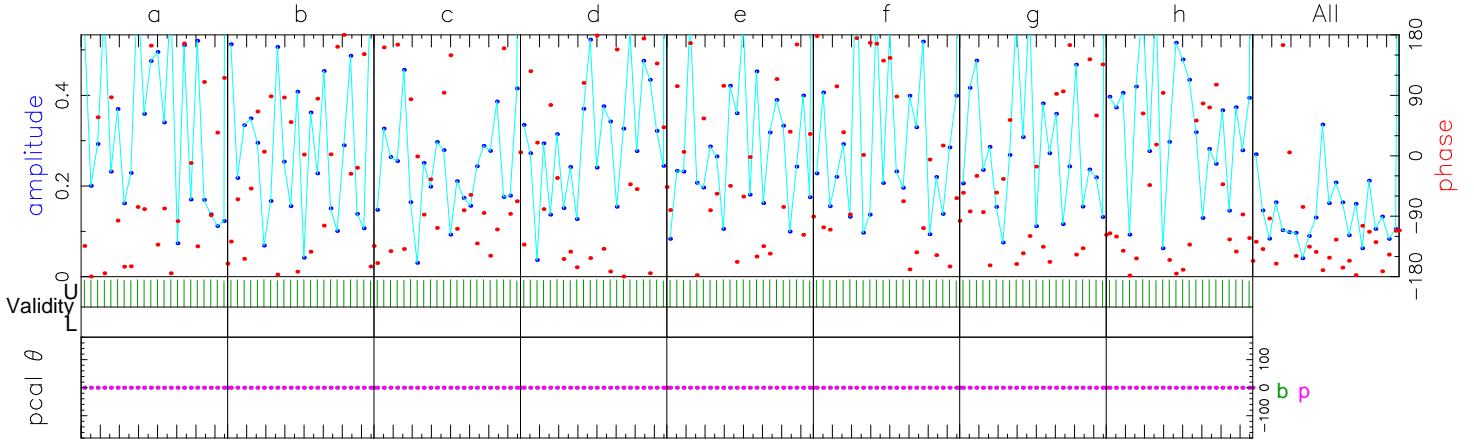


Fringe quality 0

SNR 6.7
Int time 431.619
Amp 0.178
Phase -143.3
PFD 5.7e-03
Delays (us)
SBD 0.300817
MBD 0.000126
Fringe rate (Hz)
-0.933922
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

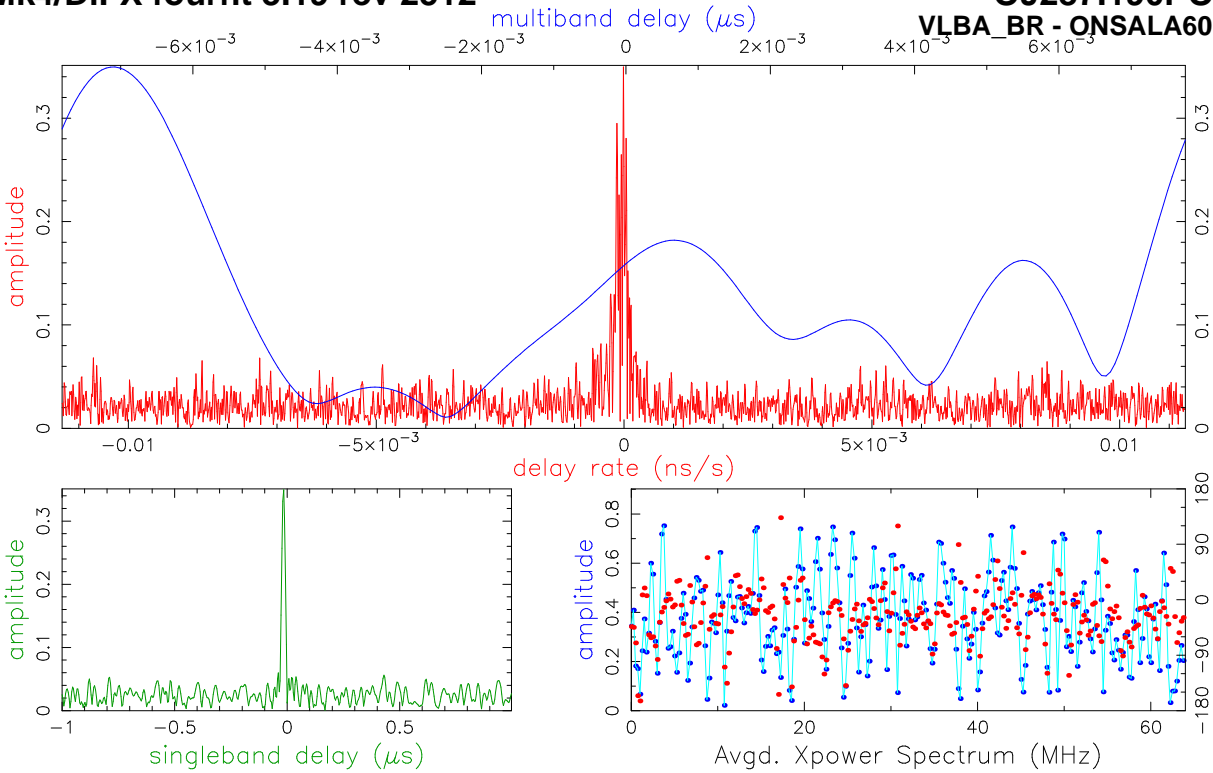
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210532
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



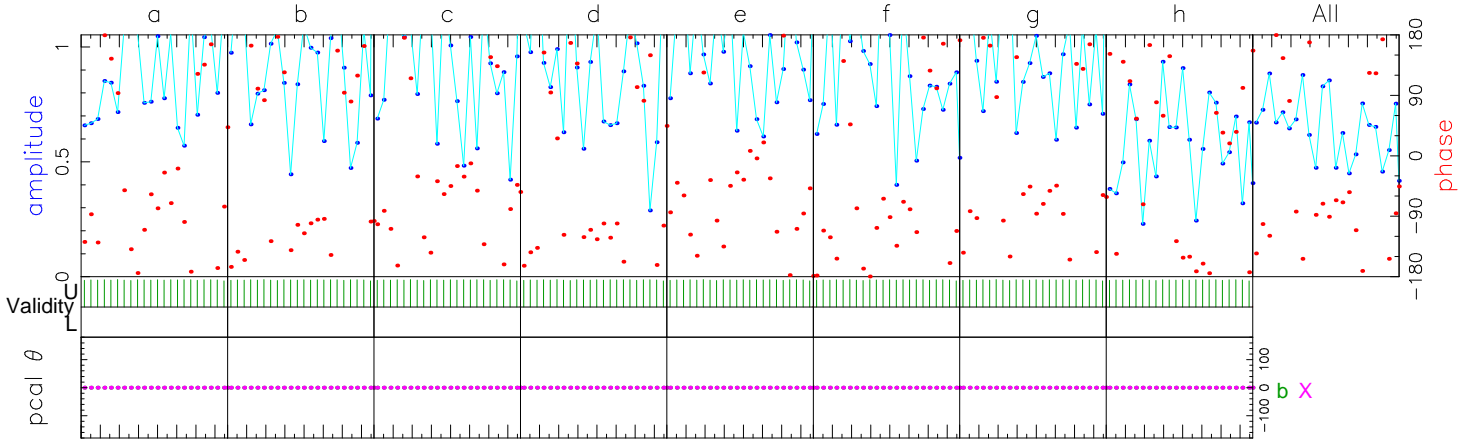
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-146.1	-146.0	-123.0	-160.9	-120.7	-163.0	-135.4	-140.3	Phase	-143.3
	0.3	0.1	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	469.7	482.1	160.9	334.8	78.2	180.7	5.0	43.7	Sbd box	334.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.19818148535E+03		Apriori delay (usec)		-2.19847848636E+03		Resid mbdelay (usec)		1.26007E-04	+/- 1.6E-04
Sband delay (usec)	-2.19817766911E+03		Apriori clock (usec)		-1.8697998E+01		Resid sbdelay (usec)		3.00817E-01	+/- 1.3E-03
Phase delay (usec)	-2.19847849098E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-4.62136E-06	+/- 5.5E-07
Delay rate (us/s)	-1.90195380132E-01		Apriori rate (us/s)		-1.90184538228E-01		Resid rate (us/s)		-1.08419E-05	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.85858257494E-05		Resid phase (deg)		-143.3	+/- 17.1

ph/seg (deg) 42.7 41.0 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.8 71.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.9 24.2 Inc. seg. avg. 0.167 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.4 42.2 Inc. frq. avg. 0.169 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator



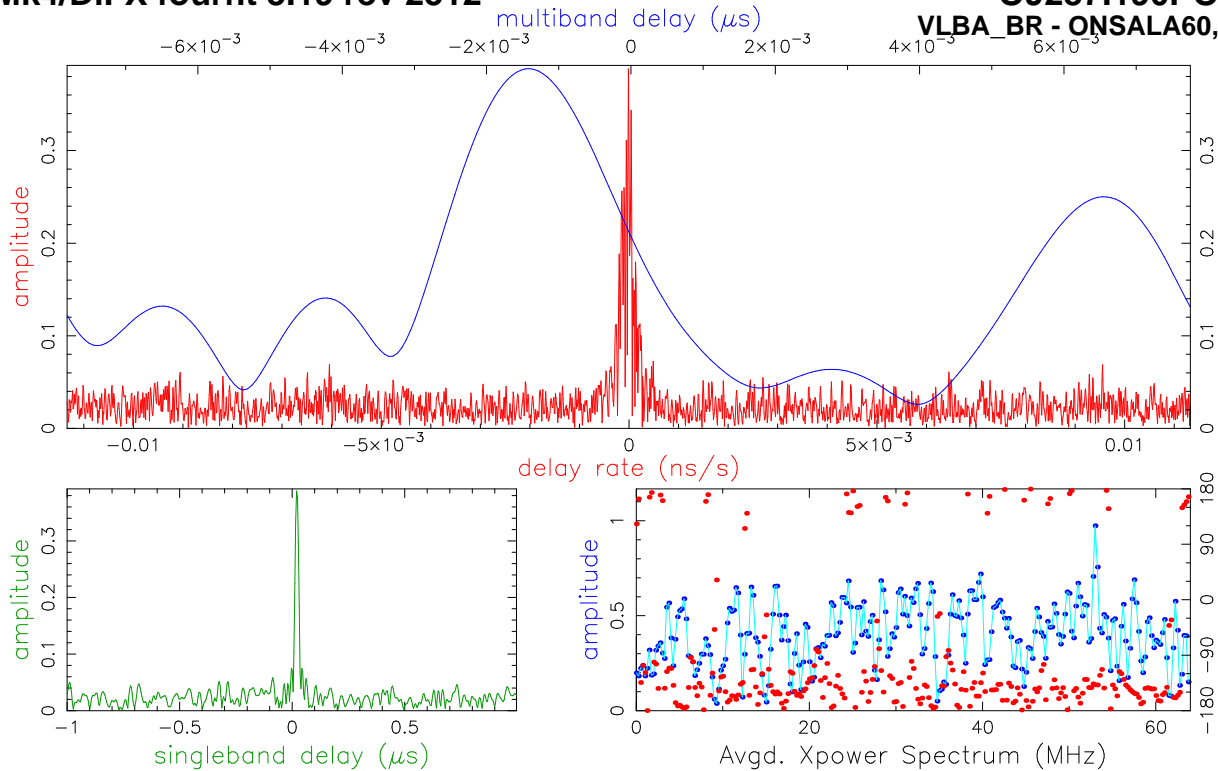
Fringe quality 8
SNR 20.0
Int time 432.366
Amp 0.351
Phase -132.3
PFD 0.0e+00
Delays (us)
SBD -0.016470
MBD -0.007119
Fringe rate (Hz)
-0.000610
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210518
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.1	-163.7	-101.9	-159.8	-77.1	-132.9	-121.2	136.6	Phase	-132.3
	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.2	Ampl.	0.4
	252.0	252.4	252.4	251.9	252.1	252.4	252.2	250.5	Sbd box	252.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.44735068887E+03		Apriori delay (usec)		-7.44732794475E+03		Resid mbdelay (usec)		-7.11912E-03	+/- 5.4E-05
Sband delay (usec)	-7.44734441475E+03		Apriori clock (usec)		-4.2198265E+01		Resid sbdelay (usec)		-1.64700E-02	+/- 4.3E-04
Phase delay (usec)	-7.44732794901E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-4.26623E-06	+/- 1.9E-07
Delay rate (us/s)	1.53316303627E+00		Apriori rate (us/s)		1.53316304335E+00		Resid rate (us/s)		-7.07991E-09	+/- 7.3E-10
Total phase (deg)			Apriori accel (us/s/s)		3.55904563591E-05		Resid phase (deg)		-132.3	+/- 5.7

ph/seg (deg) 63.9 13.8 Search (2048X32) 0.329 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 95.9 24.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 48.6 8.1 Inc. seg. avg. 0.643 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 34.0 14.2 Inc. frq. avg. 0.425 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 78.2 el 16.5 pa -44.1 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9284.547 255.252 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bX..190POF Output file: /Exps/c201c/v1/1234/No0032/bX.W.16.190POF

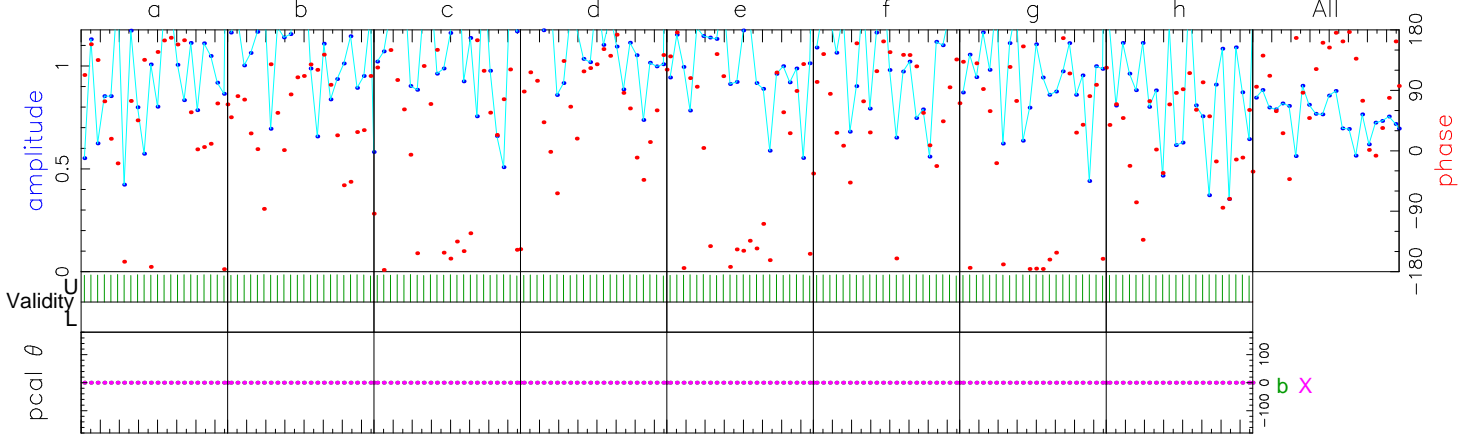


Fringe quality 8

SNR 22.3
Int time 432.366
Amp 0.392
Phase 104.7
PFD 0.0e+00
Delays (us)
SBD 0.020791
MBD -0.001383
Fringe rate (Hz)
-0.000529
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210523
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



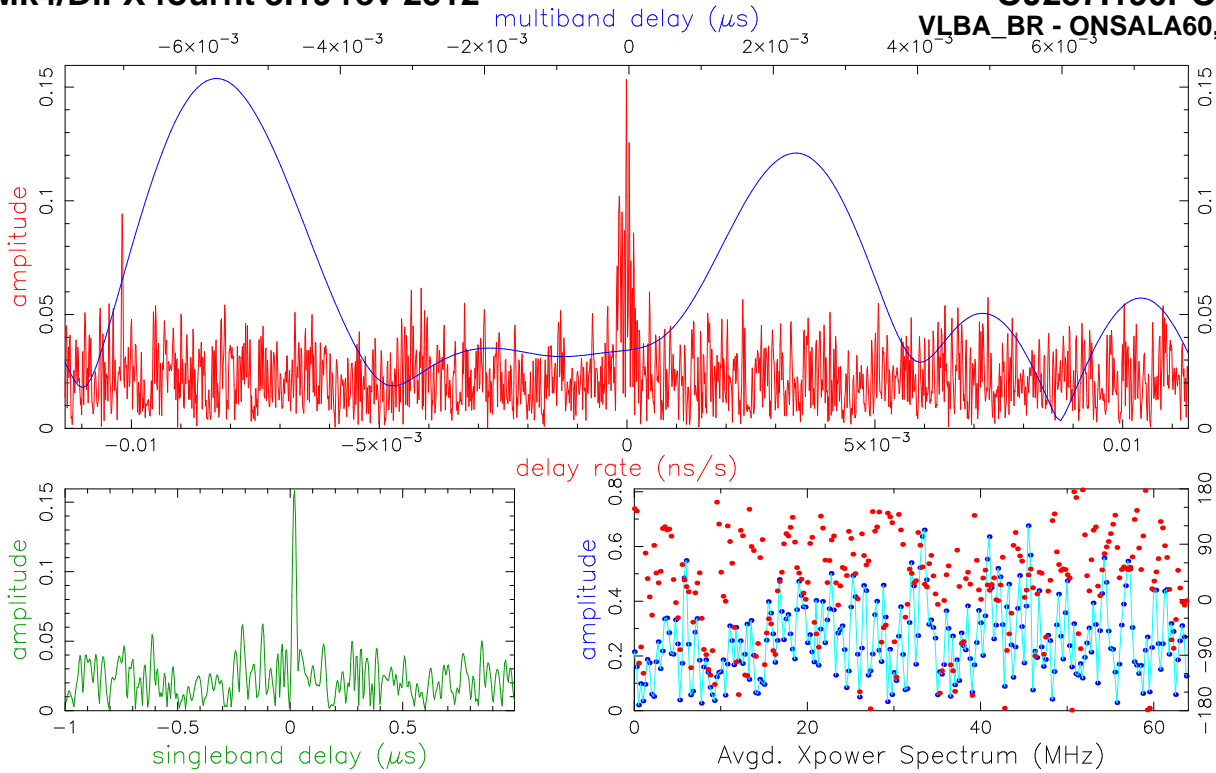
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-7.44731370318E+03									
Sband delay (usec)	-7.44730715350E+03									
Phase delay (usec)	-7.44732794137E+03									
Delay rate (us/s)	1.53316303721E+00									
Total phase (deg)			46.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 64.9 12.3
amp/seg (%) 97.1 21.5
ph/frq (deg) 46.7 7.3
amp/frq (%) 33.2 12.7

RMS Theor. Amplitude 0.392 +/- 0.018
Search (2048X32) 0.364
Interp. 0.000
Inc. seg. avg. 0.744
Inc. frq. avg. 0.491

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

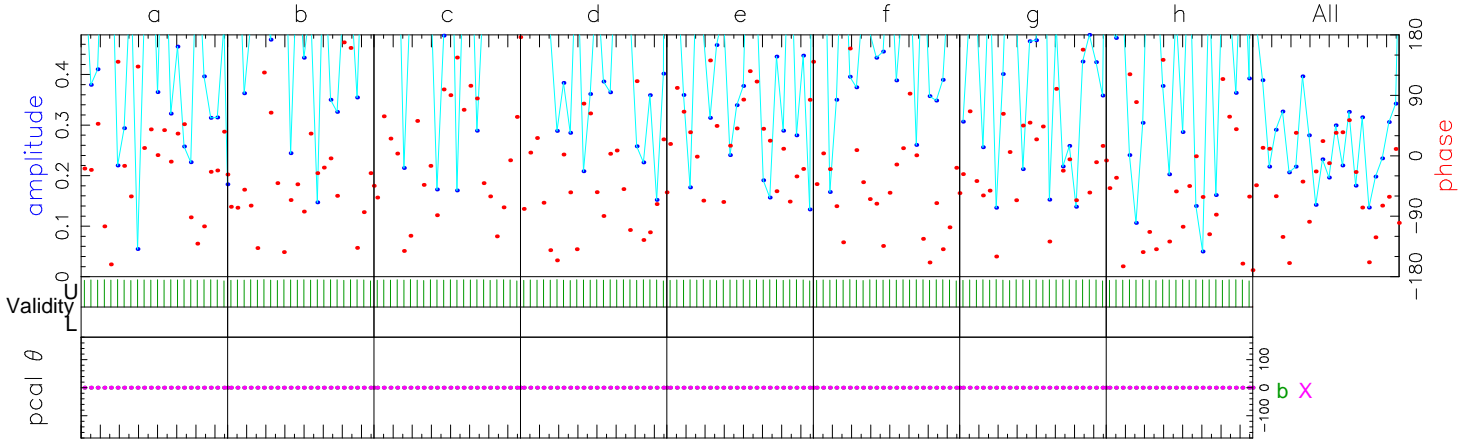


Fringe quality 9

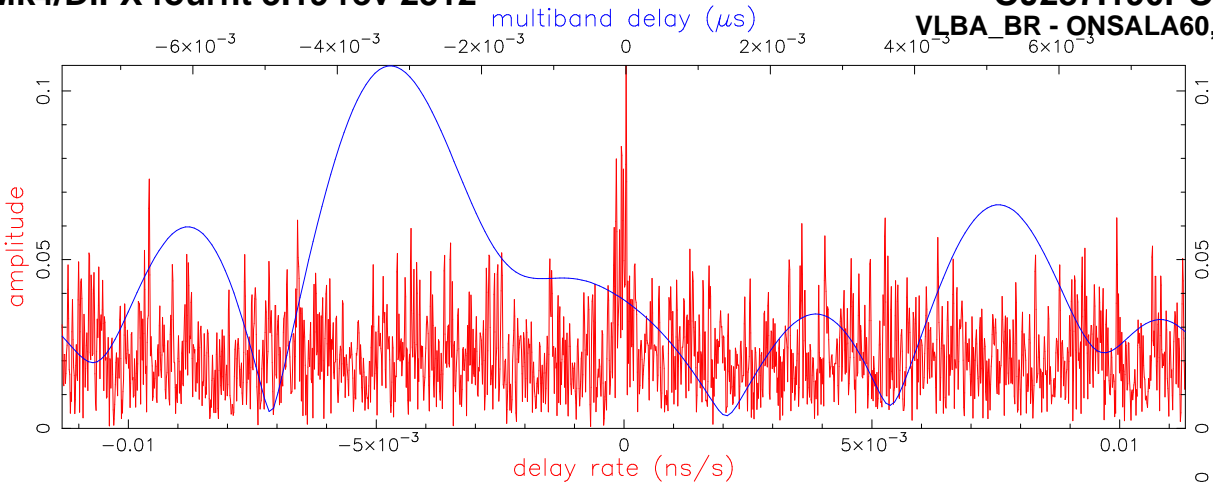
SNR 9.1
Int time 432.366
Amp 0.160
Phase -31.1
PFD 4.5e-11
Delays (us)
SBD 0.018300
MBD -0.005633
Fringe rate (Hz)
-0.000523
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210528
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

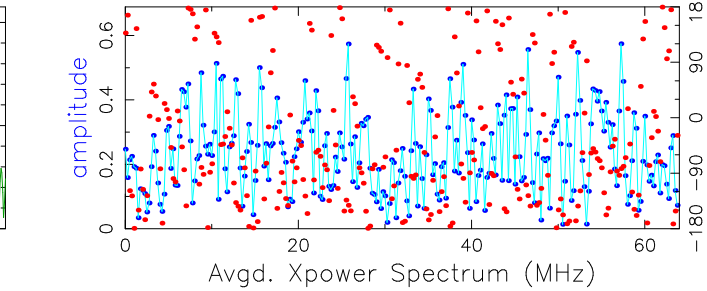
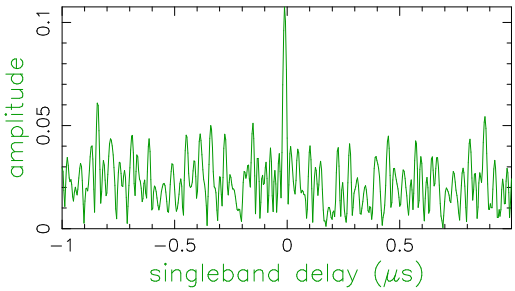
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.44730232755E+03									
Sband delay (usec)	-7.44730964450E+03									
Phase delay (usec)	-7.44732794575E+03									
Delay rate (us/s)	1.53316303728E+00									
Total phase (deg)			-88.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

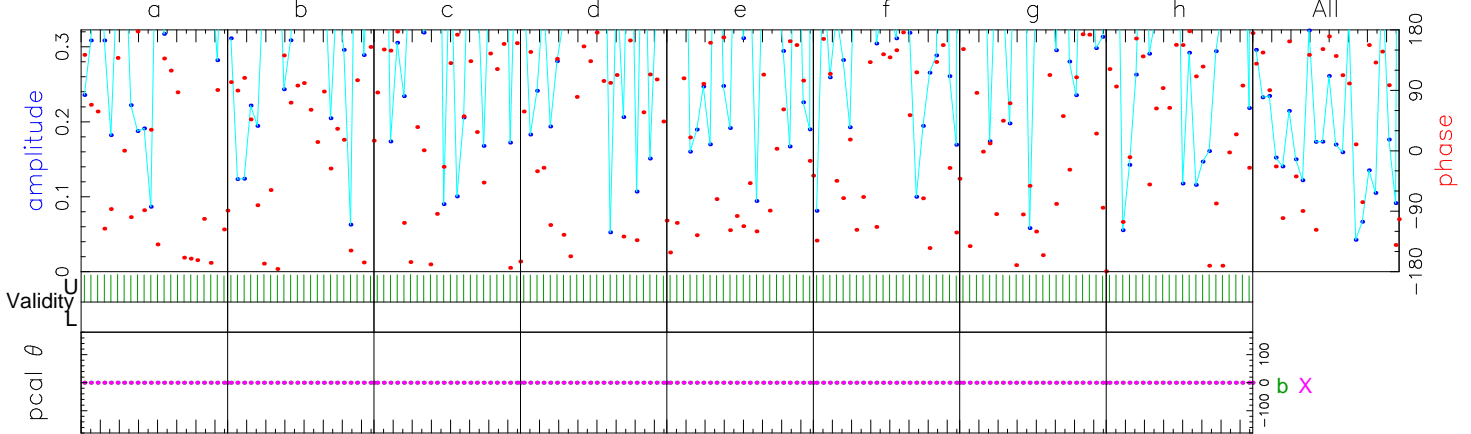


Fringe quality 0
SNR 6.1
Int time 432.366
Amp 0.108
Phase 144.4
PFD 2.2e-01
Delays (us)
SBD -0.011222
MBD -0.003248
Fringe rate (Hz)
0.004202
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210532
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



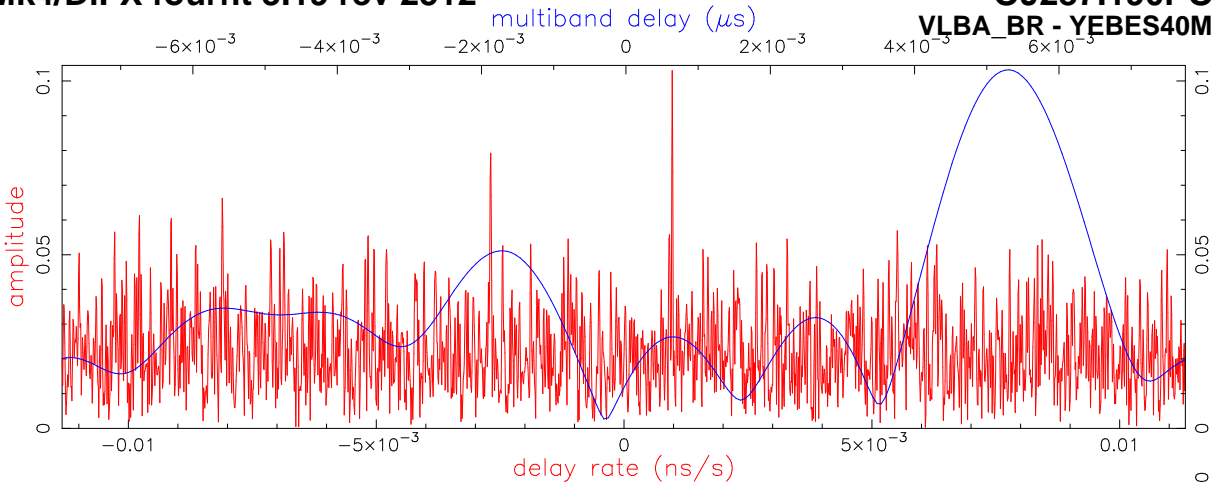
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

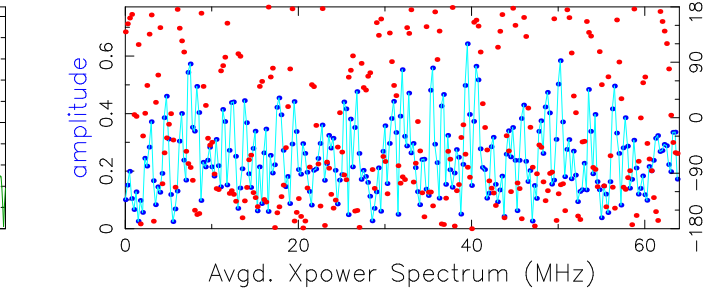
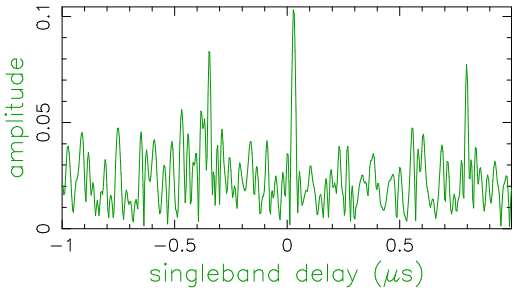


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.44734681780E+03				-7.44732794475E+03					
Sband delay (usec)	-7.44733916650E+03				-4.2198265E+01					
Phase delay (usec)	-7.44732794009E+03				-5.6999999E-07					
Delay rate (us/s)	1.53316309213E+00				1.53316304335E+00					
Total phase (deg)			86.6		3.55904563591E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									144.4	+/- 18.7
Pcal mode:	MANUAL	MANUAL			MANUAL					
Pcal rate:	0.000E+00	0.000E+00			0.000E+00					
PC period (AP's)	5	5			5					
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 83.0 44.9 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 115.1 78.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 47.4 26.5 Inc. seg. avg. 0.145 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.9 46.2 Inc. frq. avg. 0.121 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 78.2 el 16.5 pa -44.1 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9284.547 255.252 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bX..190POF Output file: /Exps/c201c/v1/1234/No0032/bX.W.75.190POF

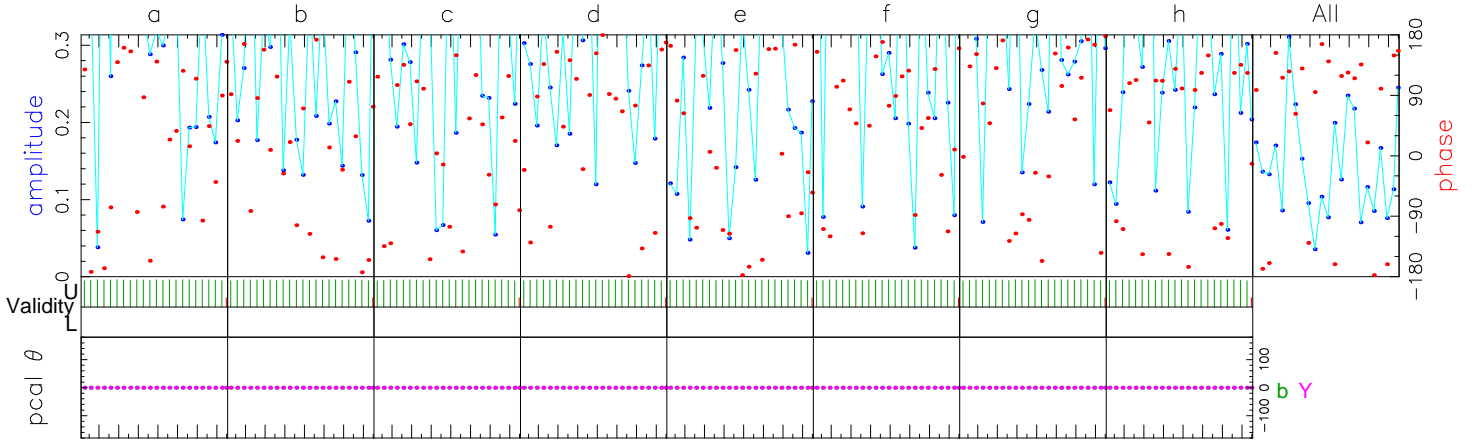


Fringe quality 0
 SNR 5.9
 Int time 427.094
 Amp 0.105
 Phase 135.5
 PFD 6.3e-01
 Delays (us)
 SBD 0.028818
 MBD 0.005359
 Fringe rate (Hz) 0.083867
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210518
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



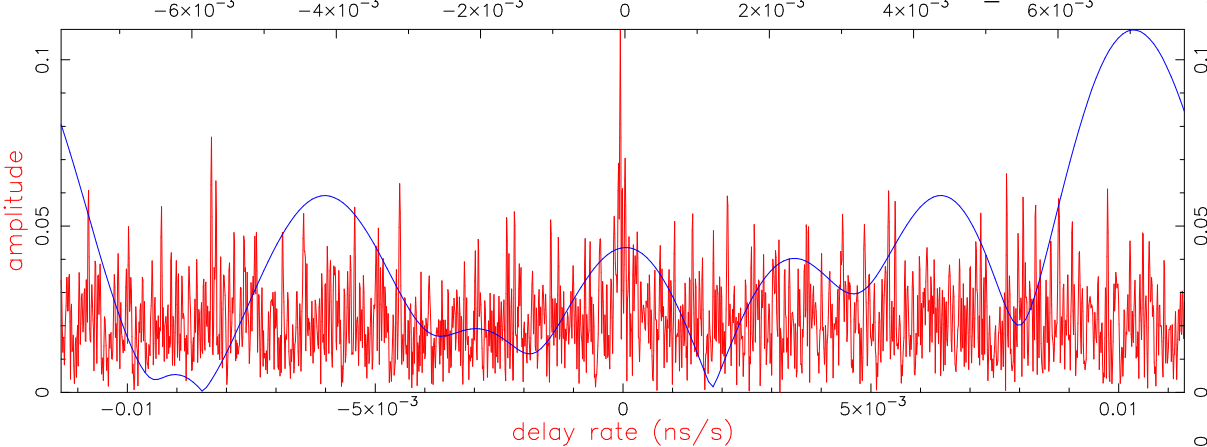
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.15633367742E+04	Apriori delay (usec)	-1.15633733835E+04	Resid mbdelay (usec)	5.35926E-03	+/-	1.8E-04
Sband delay (usec)	-1.15633445655E+04	Apriori clock (usec)	-1.3386926E+01	Resid sbdelay (usec)	2.88180E-02	+/-	1.5E-03
Phase delay (usec)	-1.15633733791E+04	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	4.37024E-06	+/-	6.3E-07
Delay rate (us/s)	1.53399280986E+00	Apriori rate (us/s)	1.53399183625E+00	Resid rate (us/s)	9.73613E-07	+/-	2.5E-09
Total phase (deg)	45.0	Apriori accel (us/s/s)	6.50840296930E-05	Resid phase (deg)	135.5	+/-	19.5

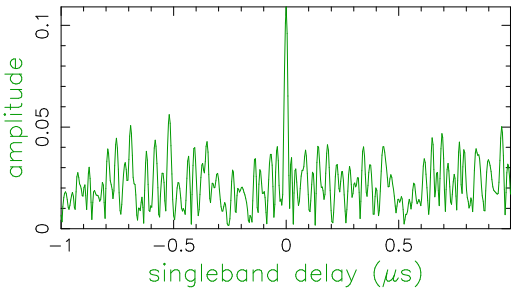
ph/seg (deg)	48.5	Theor.	46.7	Amplitude	0.105 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.0		81.4	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	31.3		27.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.3		48.0	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.101	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.18.190POF

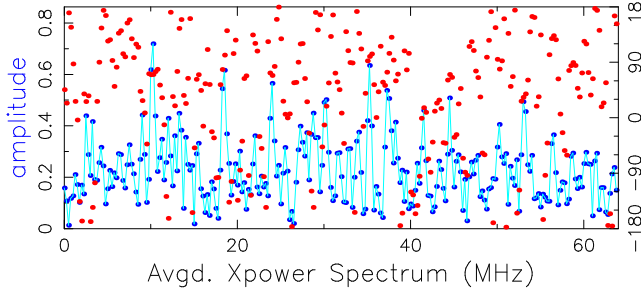
multiband delay (μ s)



Fringe quality 0
 SNR 6.2
 Int time 427.094
 Amp 0.109
 Phase 0.0
 PFD 1.7e-01
 Delays (us)
 SBD -0.000458
 MBD 0.007036
 Fringe rate (Hz)
 -0.004520
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210522
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

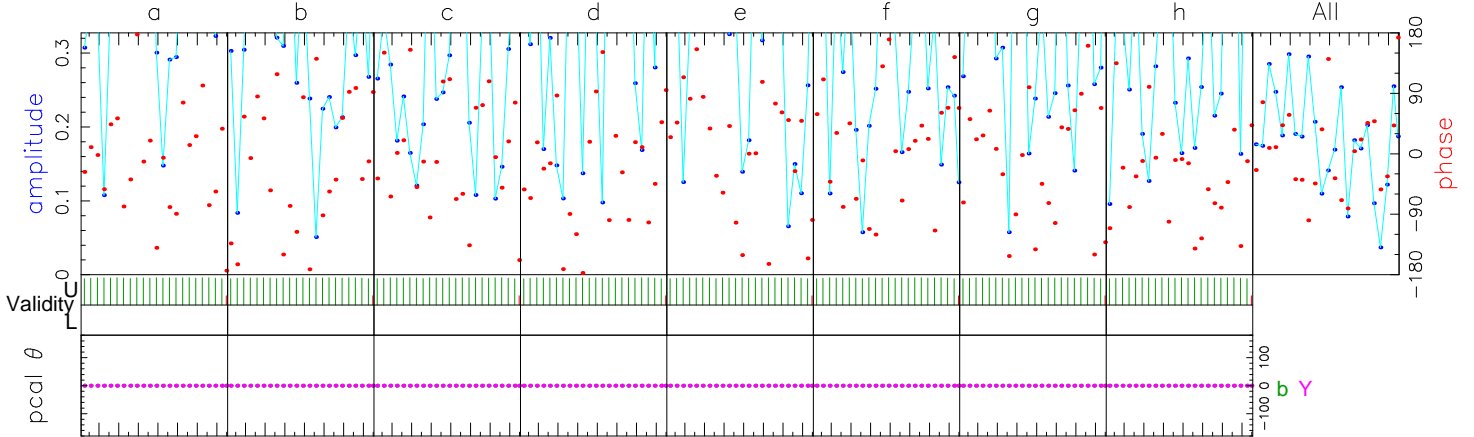


delay rate (ns/s)



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

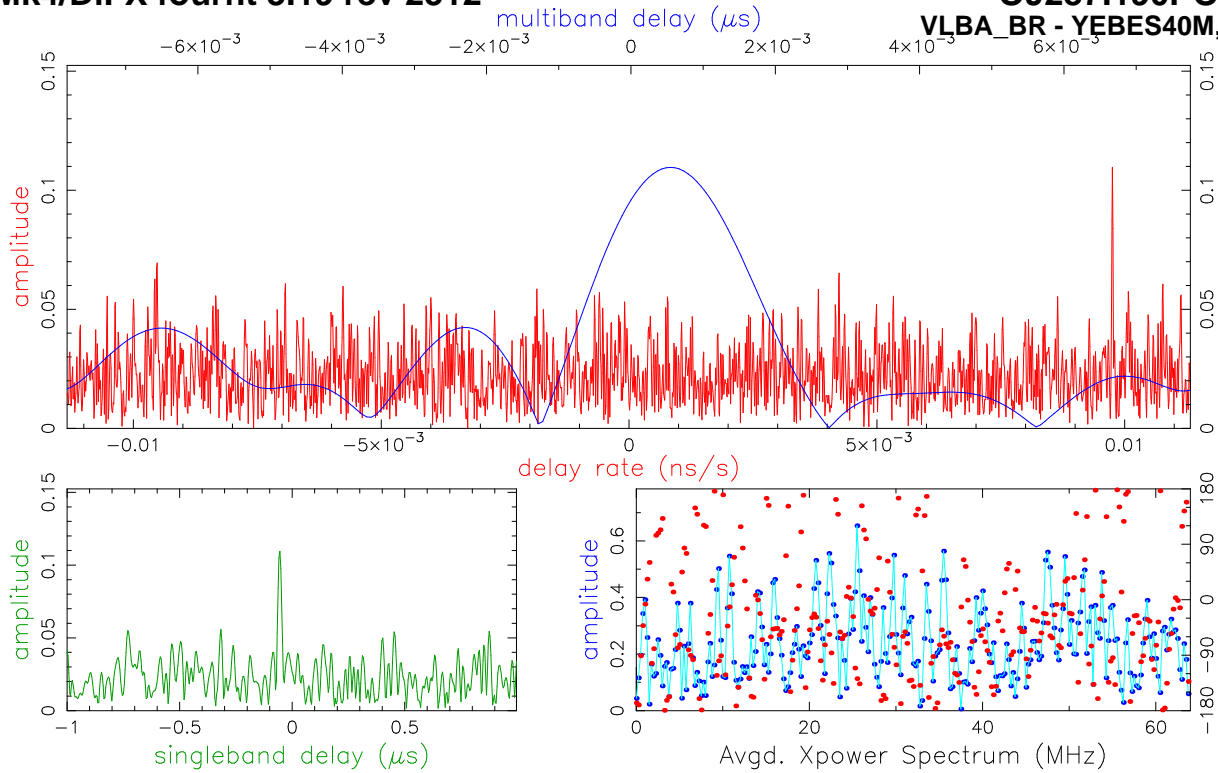


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.15633663470E+04	Apriori delay (usec)	-1.15633733835E+04	Resid mbdelay (usec)	7.03643E-03	+/-	1.8E-04
Sband delay (usec)	-1.15633738417E+04	Apriori clock (usec)	-1.3386926E+01	Resid sbdelay (usec)	-4.58250E-04	+/-	1.4E-03
Phase delay (usec)	-1.15633733835E+04	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	1.00899E-09	+/-	6.0E-07
Delay rate (us/s)	1.53399178377E+00	Apriori rate (us/s)	1.53399183625E+00	Resid rate (us/s)	-5.24758E-08	+/-	2.4E-09
Total phase (deg)	-90.5	Apriori accel (us/s/s)	6.50840296930E-05	Resid phase (deg)	0.0	+/-	18.6

ph/seg (deg)	60.4	Theor.	44.5	Amplitude	0.109 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	93.4		77.8	Search (2048X32)	0.104	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	33.6		26.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	43.1		45.9	Inc. seg. avg.	0.142	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.113	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.34.190POF

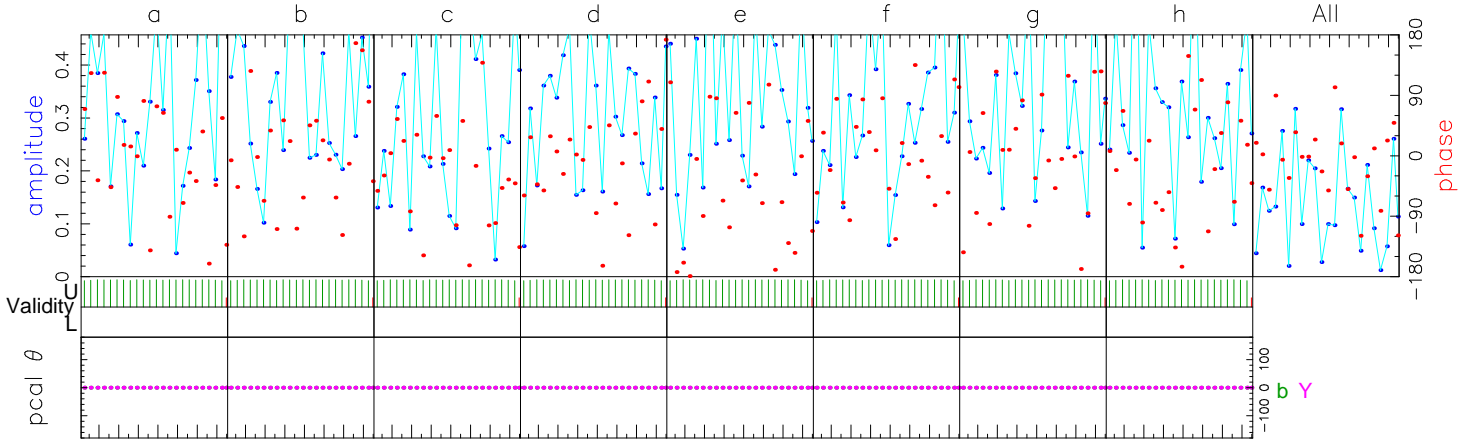


Fringe quality 0

SNR 6.2
 Int time 427.094
 Amp 0.152
 Phase 6.6
 PFD 1.3e-01
 Delays (us)
 SBD -0.055577
 MBD 0.000511
 Fringe rate (Hz)
 0.841262
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210527
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

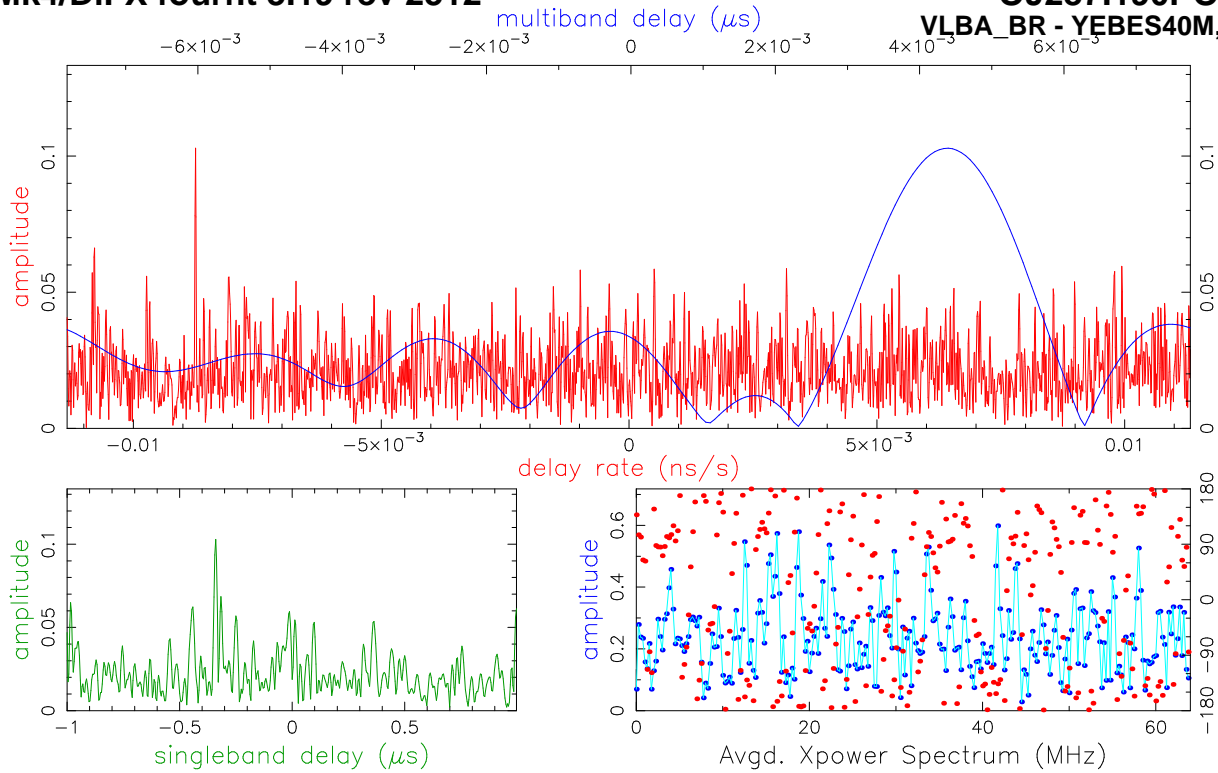


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.15634353729E+04	Apriori delay (usec)	-1.15633733835E+04	Resid mbdelay (usec)	5.10606E-04	+/-	1.7E-04
Sband delay (usec)	-1.15634289607E+04	Apriori clock (usec)	-1.3386926E+01	Resid sbdelay (usec)	-5.55772E-02	+/-	1.4E-03
Phase delay (usec)	-1.15633733832E+04	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	2.13810E-07	+/-	5.9E-07
Delay rate (us/s)	1.53400160246E+00	Apriori rate (us/s)	1.53399183625E+00	Resid rate (us/s)	9.76622E-06	+/-	2.4E-09
Total phase (deg)		Apriori accel (us/s/s)	6.50840296930E-05	Resid phase (deg)	6.6	+/-	18.4

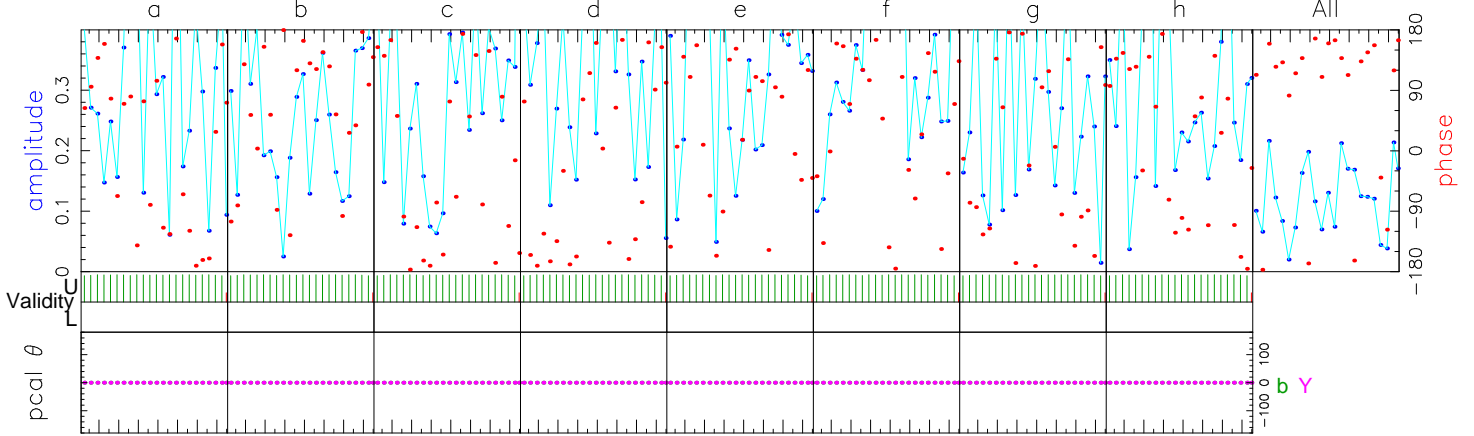
ph/seg (deg)	53.0	Theor.	44.2	Amplitude	0.152 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.6	Search (2048X32)	0.108	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	19.4	Inc. seg. avg.	0.152	Inc. frq. avg.	0.143	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	31.2	Inc. frq. avg.	0.143	Sample rate (MSamp/s): 128		Data rate (Mb/s): 2048	nlags: 256
				ion window (TEC)			t_cohere infinite

b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.54.190POF



Fringe quality 0
SNR 5.8
Int time 427.094
Amp 0.133
Phase 147.6
PFD 7.8e-01
Delays (us)
SBD -0.340055
MBD 0.004376
Fringe rate (Hz)
-0.754214
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210531
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

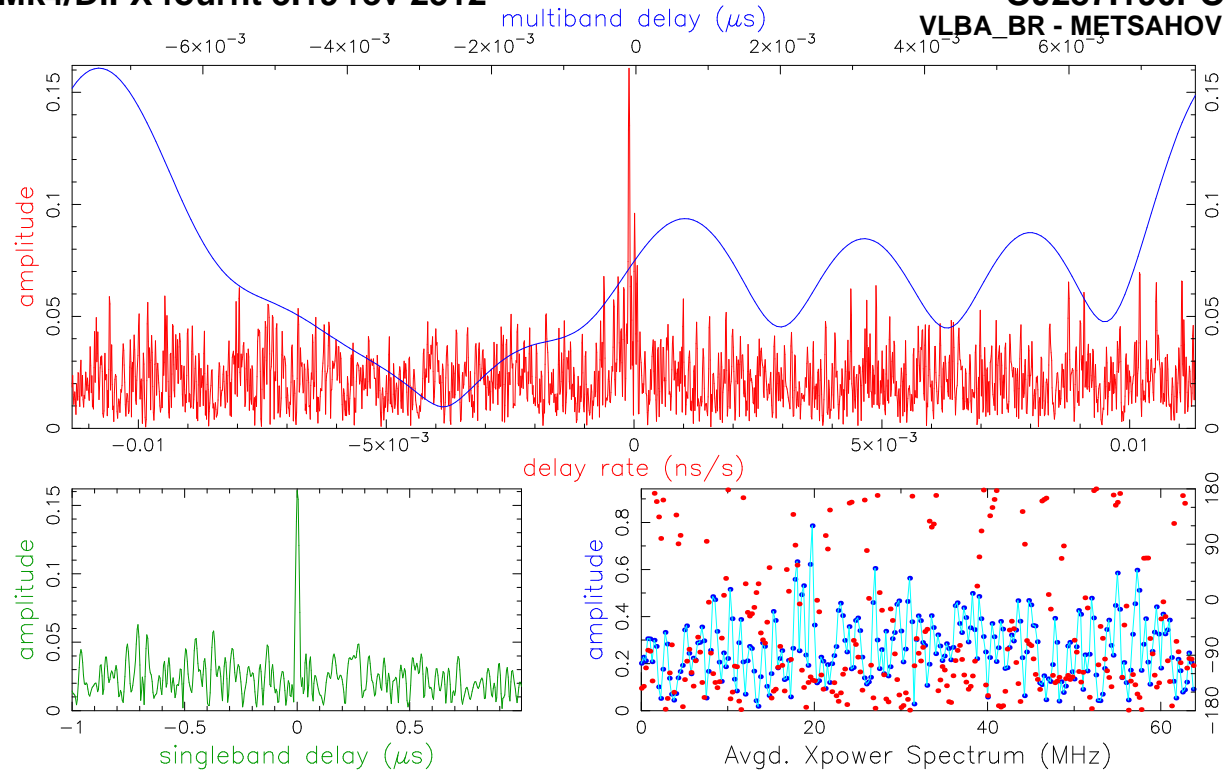


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.15637127578E+04	Apriori delay (usec)	-1.15633733835E+04	Resid mbdelay (usec)	4.37569E-03	+/-	1.9E-04
Sband delay (usec)	-1.15637134382E+04	Apriori clock (usec)	-1.3386926E+01	Resid sbdelay (usec)	-3.40055E-01	+/-	1.5E-03
Phase delay (usec)	-1.15633733787E+04	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	4.76007E-06	+/-	6.4E-07
Delay rate (us/s)	1.53398308057E+00	Apriori rate (us/s)	1.53399183625E+00	Resid rate (us/s)	-8.75568E-06	+/-	2.5E-09
Total phase (deg)		Apriori accel (us/s/s)	6.50840296930E-05	Resid phase (deg)	147.6	+/-	19.7

ph/seg (deg)	50.5	Theor.	47.2	Amplitude	0.133 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	58.8		82.5	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	29.0		27.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	25.1		48.6	Inc. seg. avg.	0.117	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.131	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.73.190POF

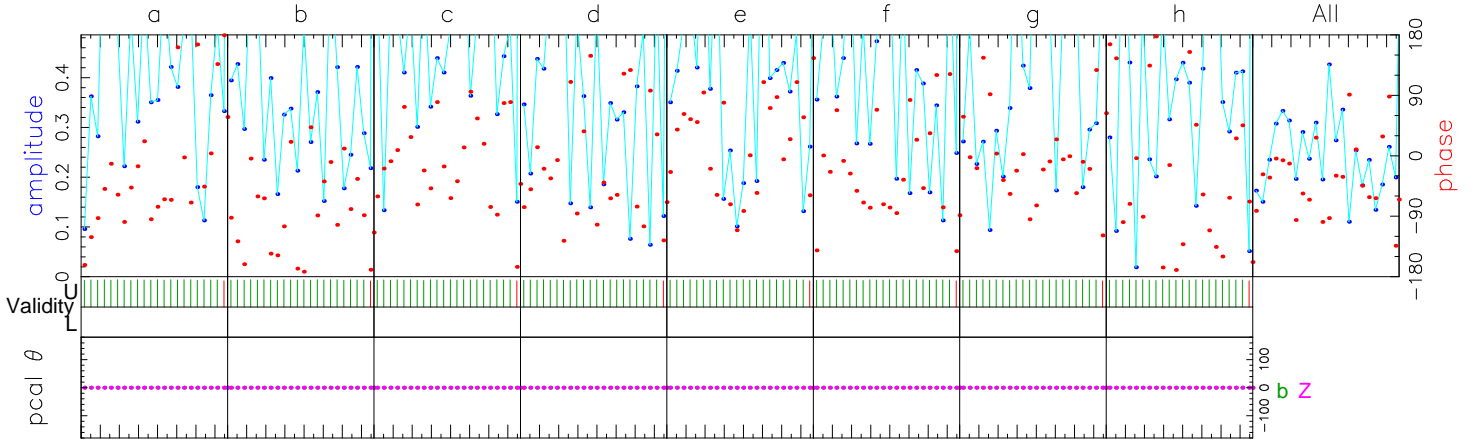


Fringe quality 9

SNR 9.2
 Int time 431.834
 Amp 0.162
 Phase -35.0
 PFD 1.3e-11
 Delays (us)
 SBD 0.001122
 MBD -0.007423
 Fringe rate (Hz)
 -0.009063
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210518
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



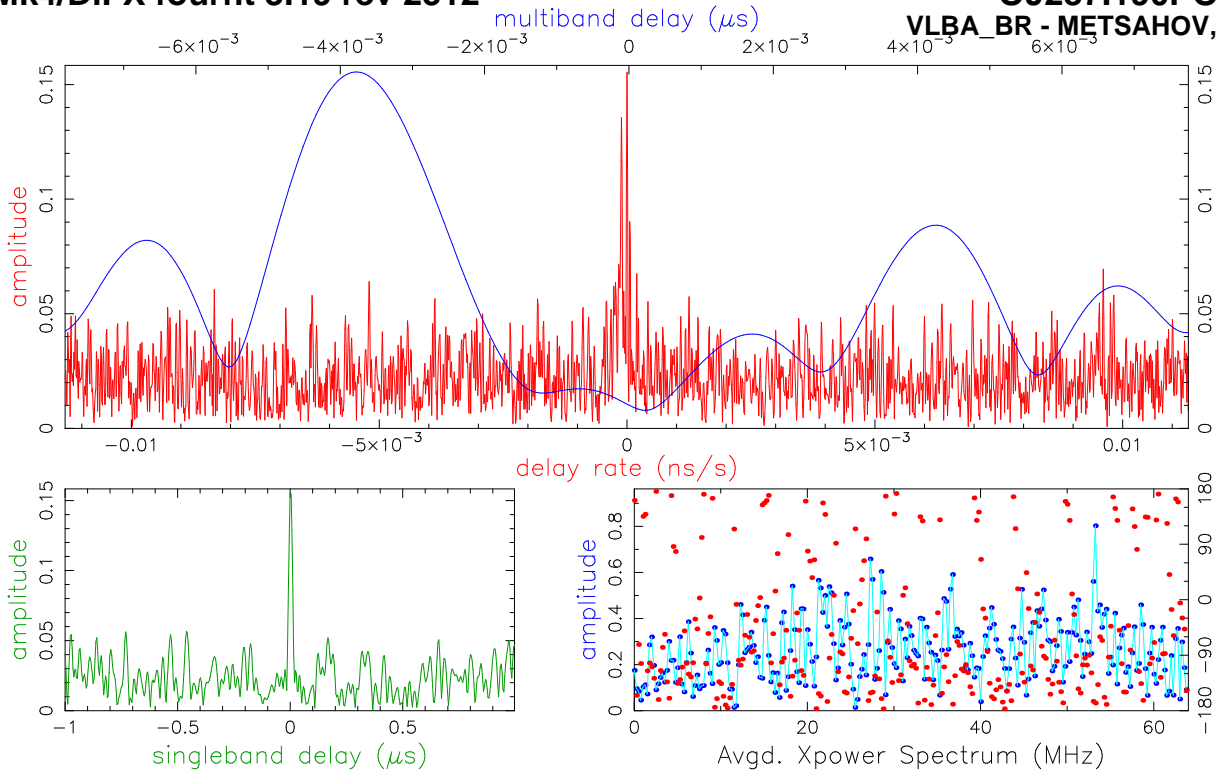
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.30598699648E+03				-5.30599519892E+03				-7.42255E-03	+/- 1.2E-04
Sband delay (usec)	-5.30599407717E+03				-1.2926095E+08				1.12175E-03	+/- 9.4E-04
Phase delay (usec)	-5.30599520005E+03				-5.8000005E-08				-1.12939E-06	+/- 4.0E-07
Delay rate (us/s)	1.58721813128E+00				1.58721823649E+00				-1.05210E-07	+/- 1.6E-09
Total phase (deg)			-191.7		2.34323026067E-05				-35.0	+/- 12.4
	RMS	Theor.	Amplitude	0.162 +/- 0.018	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			sb window (us)	-1.000 1.000
ph/seg (deg)	56.0	29.8	Search (2048X32)	0.153	PCal rate: 0.000E+00, 0.000E+00 (us/s)				mb window (us)	-0.008 0.008
amp/seg (%)	68.6	52.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled			dr window (ns/s)	-0.011 0.011
ph/frq (deg)	52.6	17.6	Inc. seg. avg.	0.214	Sample rate(MISamp/s): 128				ion window (TEC)	0.00 0.00
amp/frq (%)	41.3	30.7	Inc. frq. avg.	0.206	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite				

b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.17.190POF

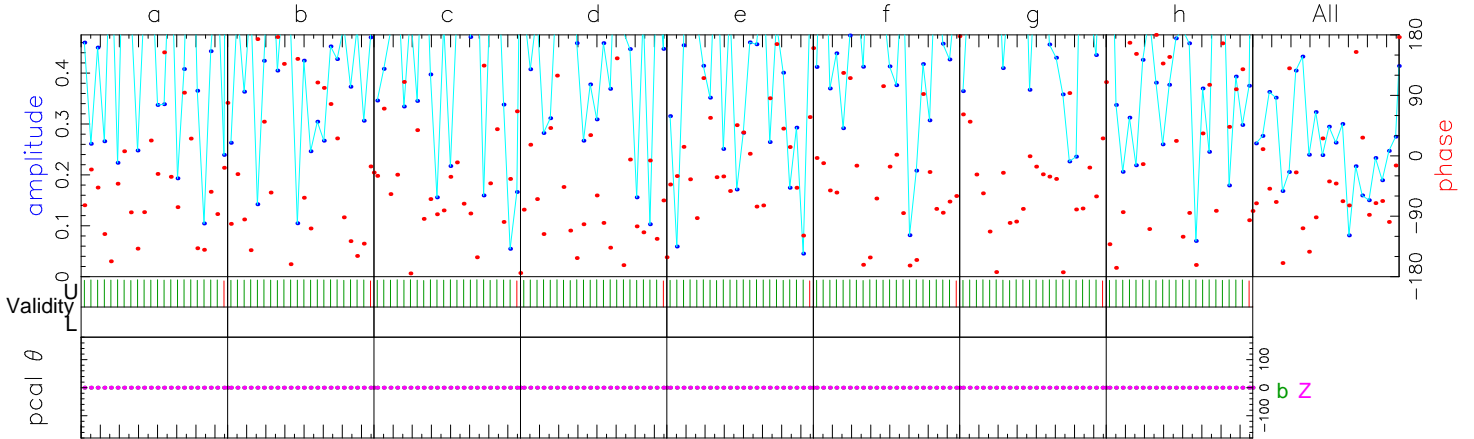
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bZ
VLBA_BR - METSAHOV, fgroup W, pol RR



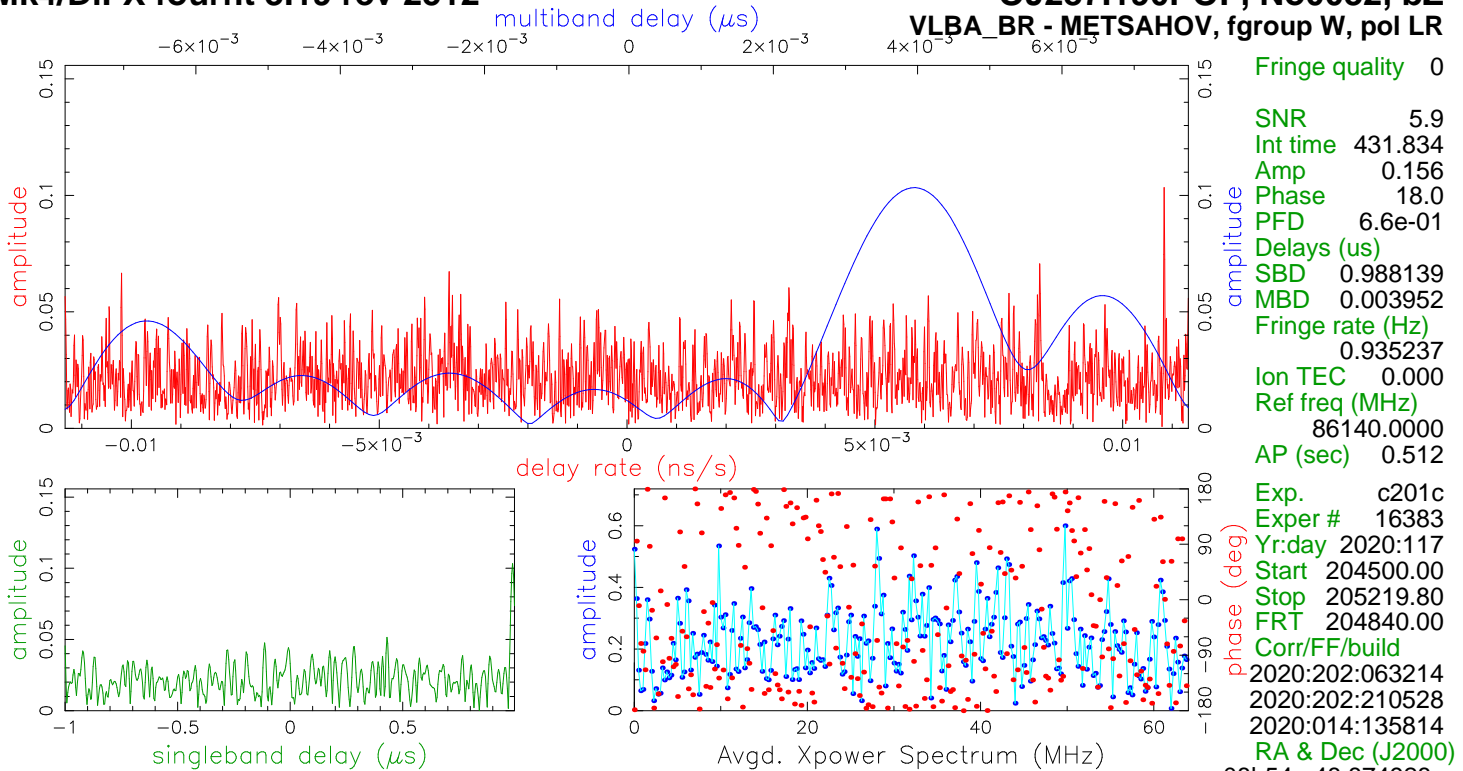
Fringe quality 9
SNR 9.0
Int time 431.835
Amp 0.158
Phase -62.8
PFD 8.7e-11
Delays (us)
SBD 0.001846
MBD -0.003729
Fringe rate (Hz) 0.000351
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210524
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

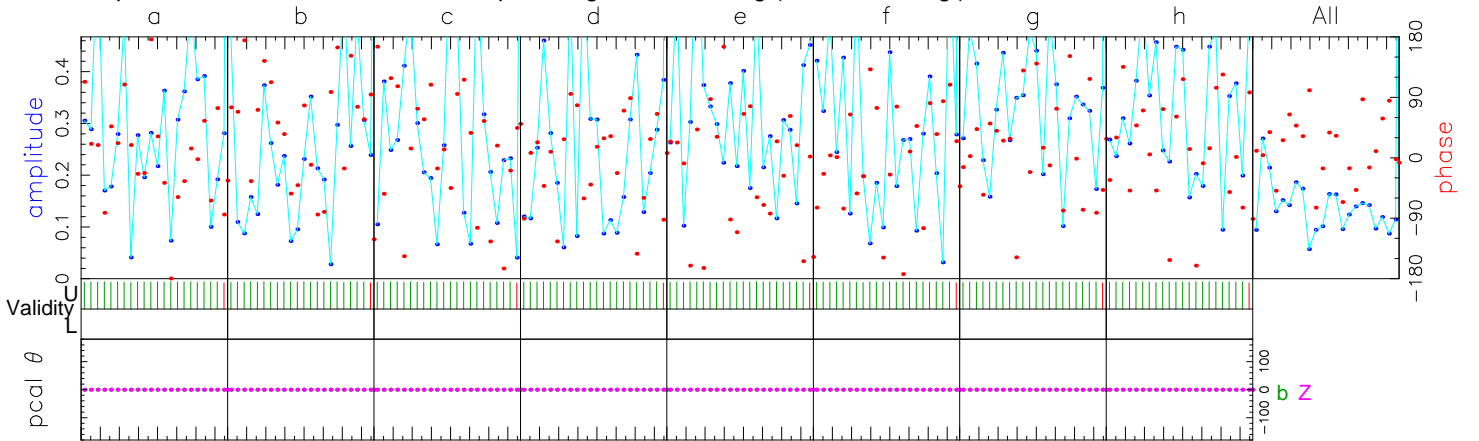


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.6	-111.5	-55.4	-98.0	-17.0	-53.6	-48.5	-146.0	Phase	-62.8
	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	257.8	8.7	18.2	243.3	258.3	256.8	255.8	474.4	Sbd box	257.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.30599892755E+03		Apriori delay (usec)		-5.30599519892E+03		Resid mbdelay (usec)		-3.72862E-03	+/- 1.2E-04
Sband delay (usec)	-5.30599335242E+03		Apriori clock (usec)		-1.2926095E+08		Resid sbdelay (usec)		1.84650E-03	+/- 9.6E-04
Phase delay (usec)	-5.30599520095E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		-2.02514E-06	+/- 4.1E-07
Delay rate (us/s)	1.58721824057E+00		Apriori rate (us/s)		1.58721823649E+00		Resid rate (us/s)		4.07846E-09	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.34323026067E-05		Resid phase (deg)		-62.8	+/- 12.7

ph/seg (deg) 66.1 30.5 Search (2048X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 81.8 53.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 46.9 18.0 Inc. seg. avg. 0.226 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 41.4 31.4 Inc. frq. avg. 0.179 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.42.190POF

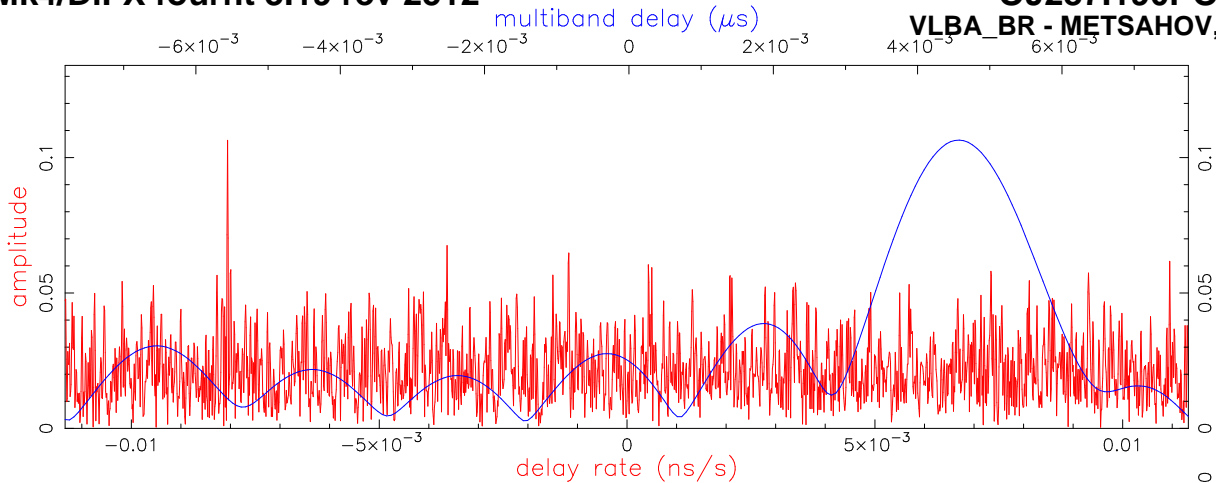


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



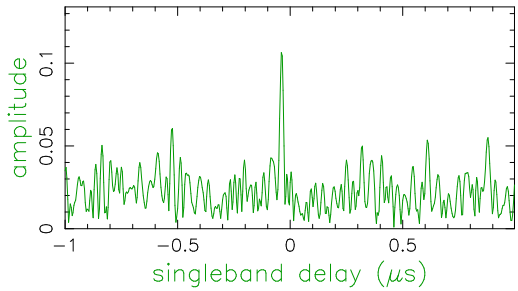
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.30500687238E+03								3.95155E-03	+/- 1.8E-04
Sband delay (usec)	-5.30500706017E+03								9.88139E-01	+/- 1.5E-03
Phase delay (usec)	-5.30599519834E+03								5.79236E-07	+/- 6.3E-07
Delay rate (us/s)	1.58722909366E+00								1.08572E-05	+/- 2.5E-09
Total phase (deg)			-138.7						18.0	+/- 19.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 48.0 46.8 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 63.6 81.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.7 27.6 Inc. seg. avg. 0.156 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 31.4 48.2 Inc. frq. avg. 0.150 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.59.190POF

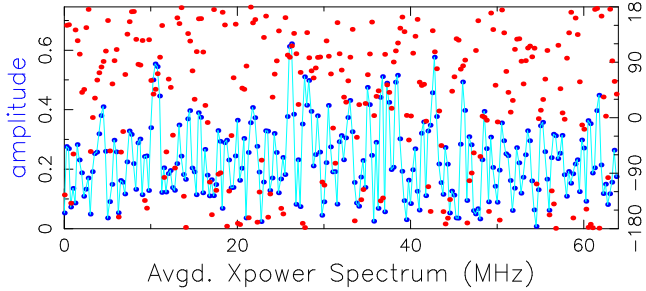


Fringe quality 0

SNR 6.1
 Int time 431.835
 Amp 0.134
 Phase -11.8
 PFD 2.1e-01
 Delays (us)
 SBD -0.037540
 MBD 0.004608
 Fringe rate (Hz)
 -0.695167
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

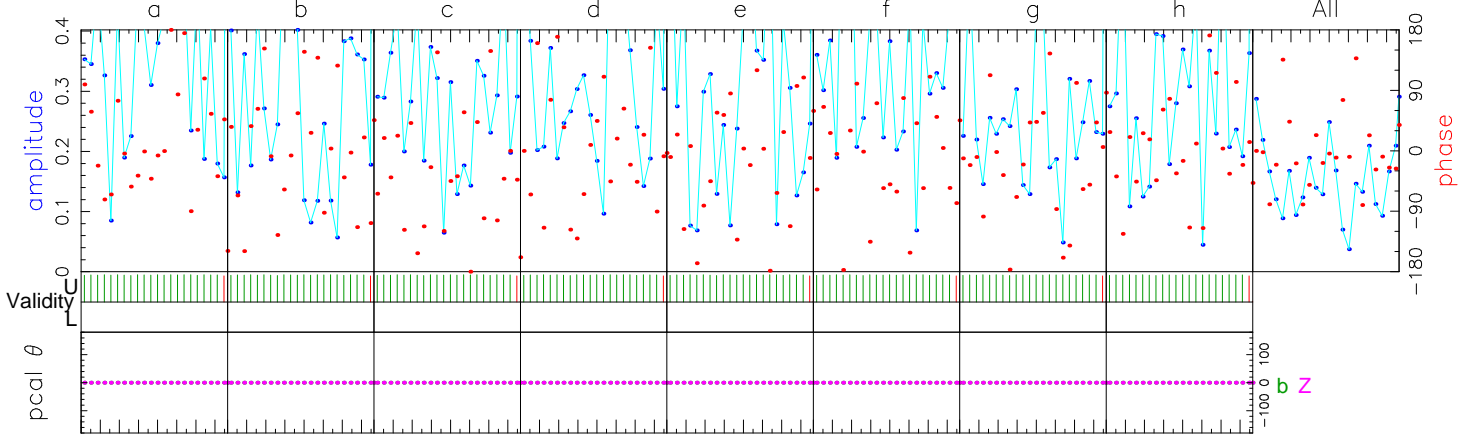


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210532
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-5.30603746636E+03	Apriori delay (usec)	-5.30599519892E+03	Resid mbdelay (usec)	4.60756E-03	+/-	1.8E-04
Sband delay (usec)	-5.30603273867E+03	Apriori clock (usec)	-1.2926095E+08	Resid sbdelay (usec)	-3.75398E-02	+/-	1.4E-03
Phase delay (usec)	-5.30599519930E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-3.79375E-07	+/-	6.0E-07
Delay rate (us/s)	1.58721016629E+00	Apriori rate (us/s)	1.58721823649E+00	Resid rate (us/s)	-8.07020E-06	+/-	2.4E-09
Total phase (deg)	-168.5	Apriori accel (us/s/s)	2.34323026067E-05	Resid phase (deg)	-11.8	+/-	18.7

ph/seg (deg)	58.0	Theor.	44.8	Amplitude	0.134 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.8		78.3	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	17.2		26.5	Inc. seg. avg.	0.144	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	16.4		46.2	Inc. frq. avg.	0.124	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.76.190POF