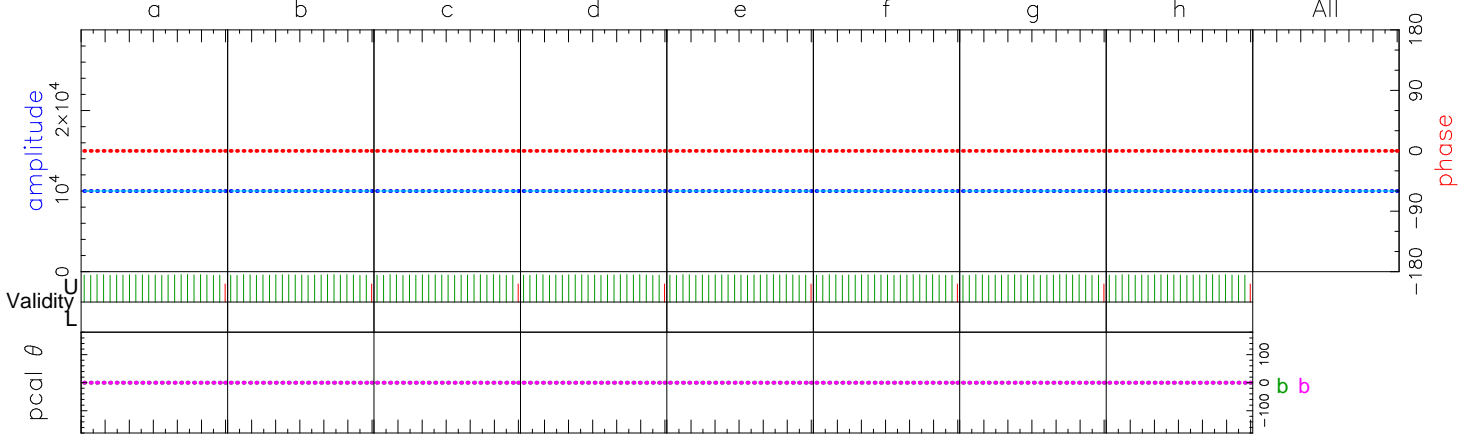


Fringe quality 9

SNR 515040.1
Int time 354.721
Amp 9999.997
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. c201d
Yr:day 16383
Start 2020:118
Stop 2020:118
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122443
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

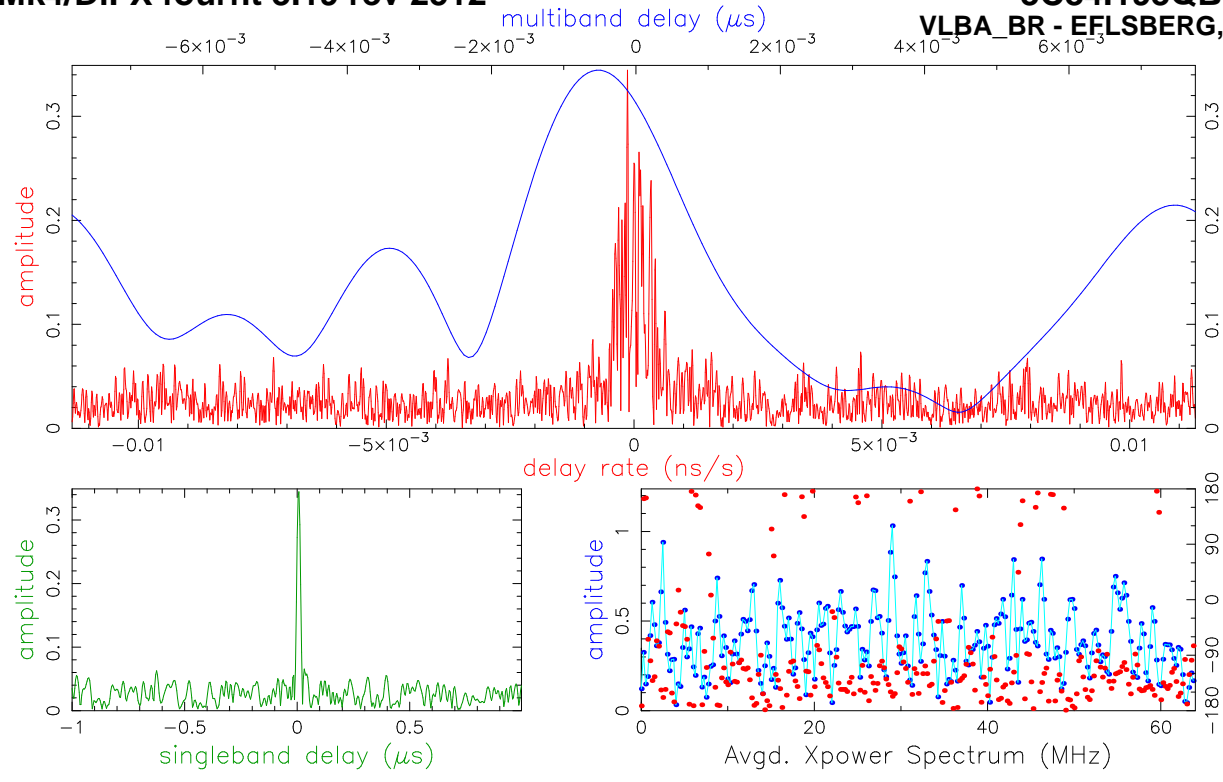


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	257.0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	10000.0
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
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	0.00000E+00	+/- 2.1E-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	0.00000E+00	+/- 1.7E-08
Phase delay (usec)	1.30027952025E-20	1.30027952025E-20	1.30027952025E-20	1.30027952025E-20	1.30027952025E-20	1.30027952025E-20	1.30027952025E-20	1.30027952025E-20	1.30028E-20	+/- 7.2E-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	0.00000E+00	+/- 3.5E-14
Total phase (deg)			0.0						0.0	+/- 0.0

RMS Theor. Amplitude 9999.997 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.997 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. 9999.997 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

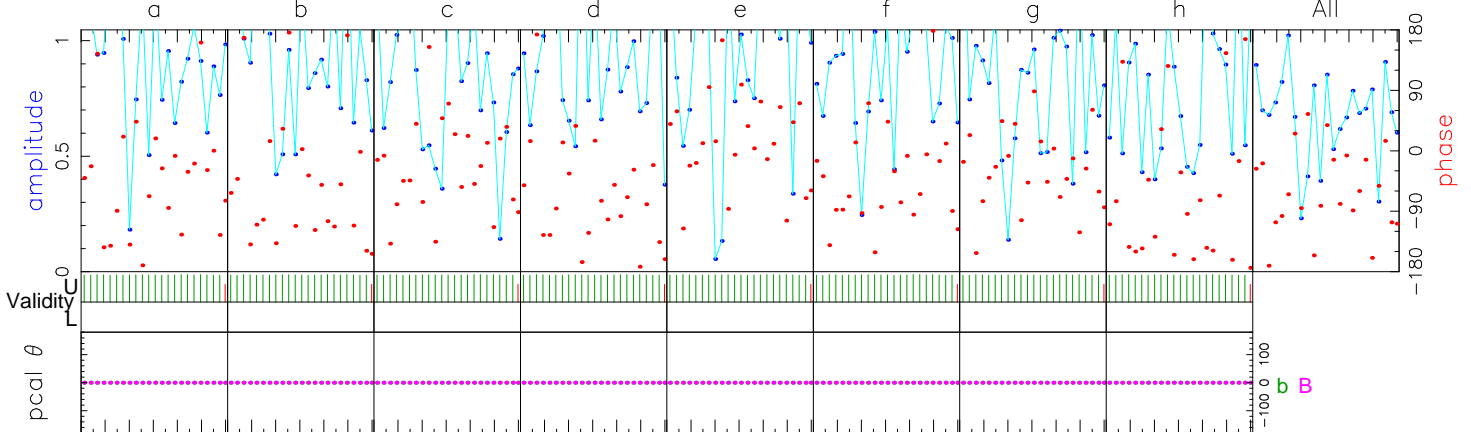
b: az 75.0 el 47.2 pa -59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bb..193QBF Output file: /Exps/c201d/v1/1234/No0057/bb.W.13.193QBF



Fringe quality 8
SNR 18.0
Int time 354.450
Amp 0.349
Phase -58.6
PFD 0.0e+00
Delays (us)
SBD 0.006324
MBD -0.000535
Fringe rate (Hz)
-0.011014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122444
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

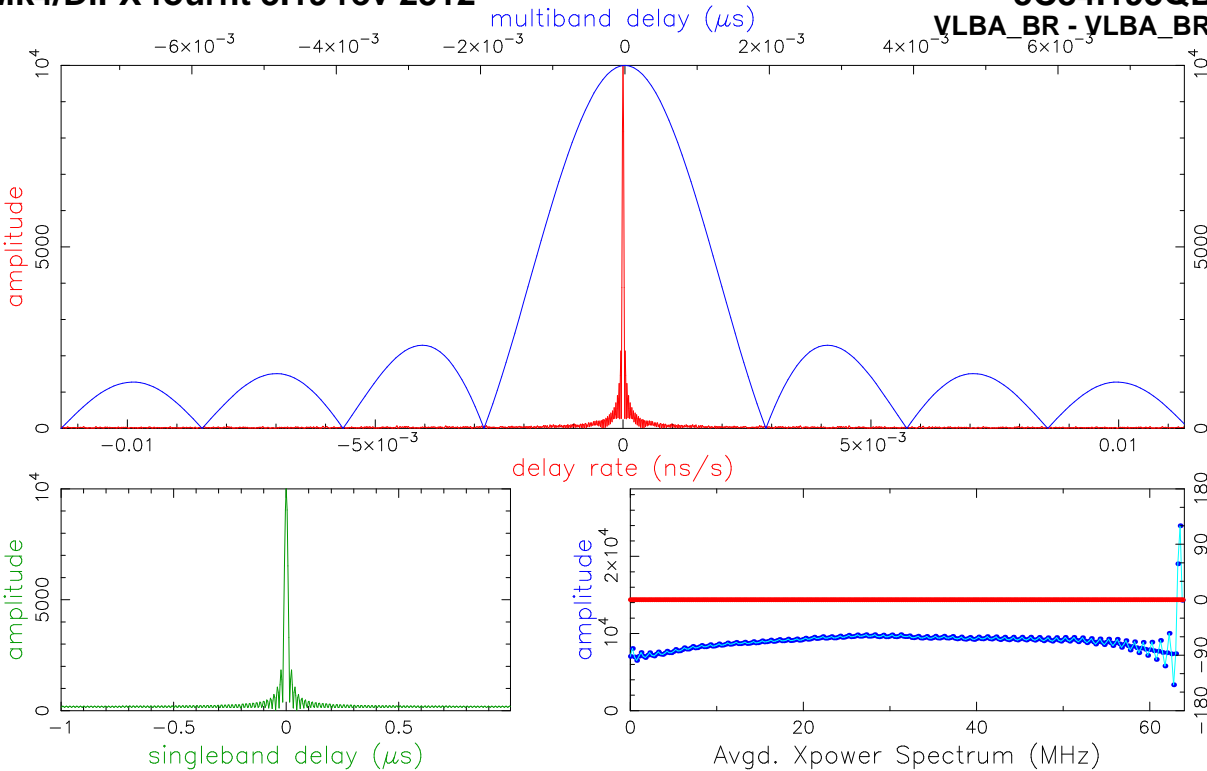
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-62.5	-95.4	-27.9	-83.5	14.3	-58.1	-34.9	-130.6	Phase	-58.6
	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	Ampl.	0.4
	259.3	258.4	258.0	258.1	257.9	257.7	257.3	257.9	Sbd box	258.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.03443360560E+02		Apriori delay (usec)		7.03443895158E+02		Resid mbdelay (usec)		-5.34599E-04	+/- 6.0E-05
Sband delay (usec)	7.03450218658E+02		Apriori clock (usec)		-1.4439681E+01		Resid sbdelay (usec)		6.32350E-03	+/- 4.8E-04
Phase delay (usec)	7.03443893269E+02		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-1.88918E-06	+/- 2.1E-07
Delay rate (us/s)	1.35121977076E+00		Apriori rate (us/s)		1.35121989862E+00		Resid rate (us/s)		-1.27860E-07	+/- 9.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-5.86097415492E-06		Resid phase (deg)		-58.6	+/- 6.4

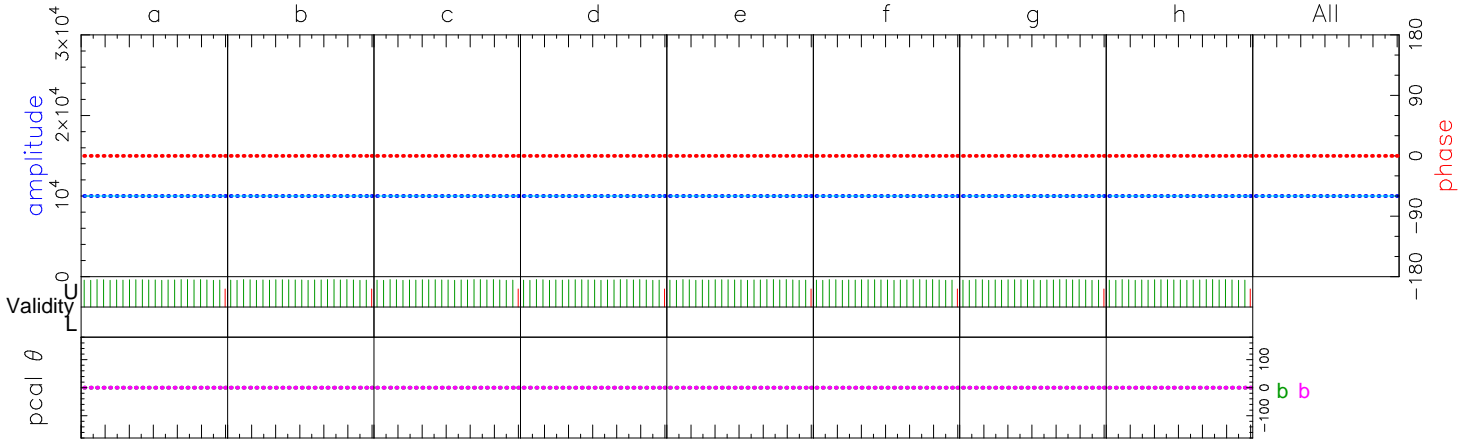
	RMS	Theor.	Amplitude	0.349 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	61.9	15.3	Search (2048X32)	0.329	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	108.3	26.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	48.3	9.0	Inc. seg. avg.	0.652	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	32.4	15.7	Inc. frq. avg.	0.443	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

b: az 75.0 el 47.2 pa -59.5 B: az 284.8 el 45.4 pa 55.3 u,v (fr/asec) -10351.948 -518.946 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bB..193QBF Output file: /Exps/c201d/v1/1234/No0057/bB.W.18.193QBF



Fringe quality 9
SNR 515039.8
Int time 354.720
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. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122439
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

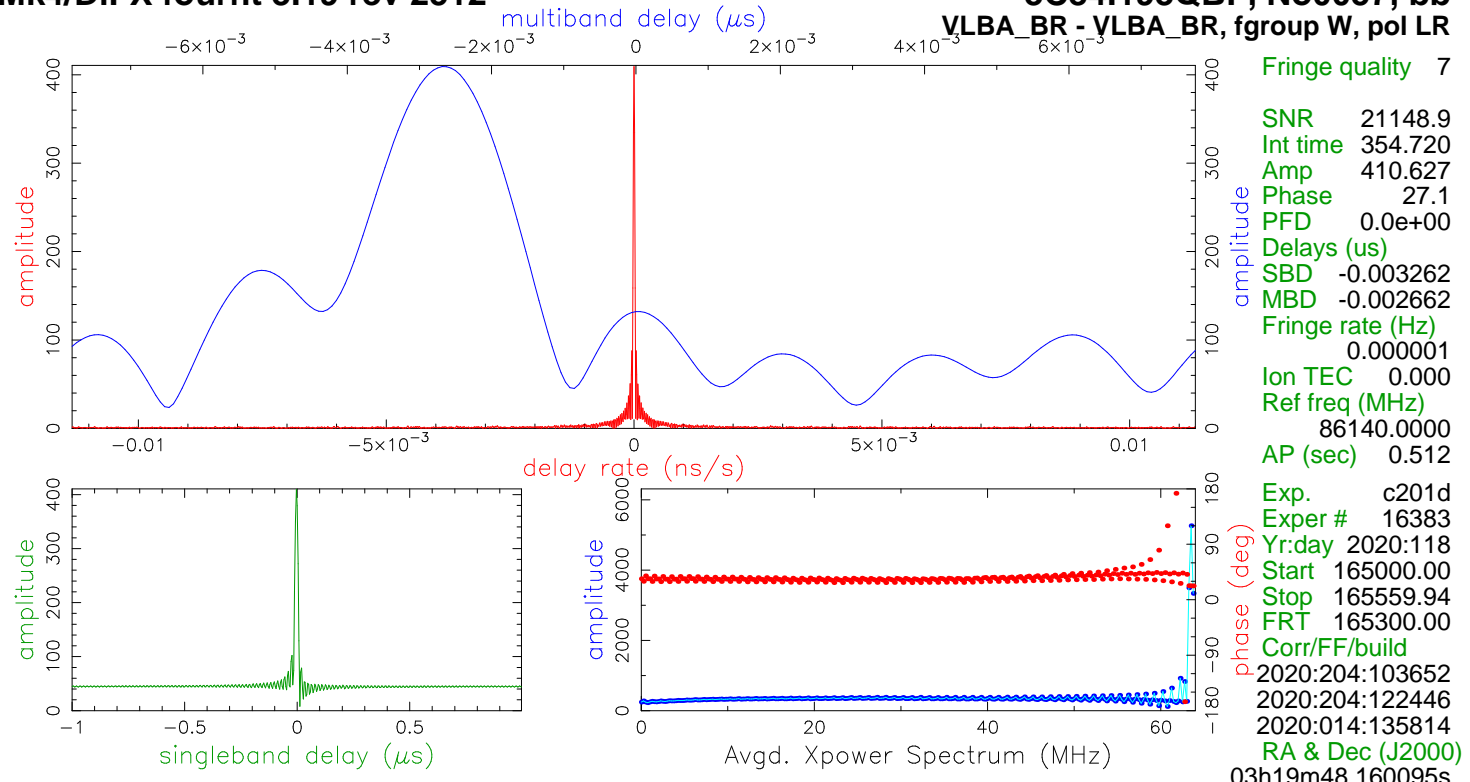


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

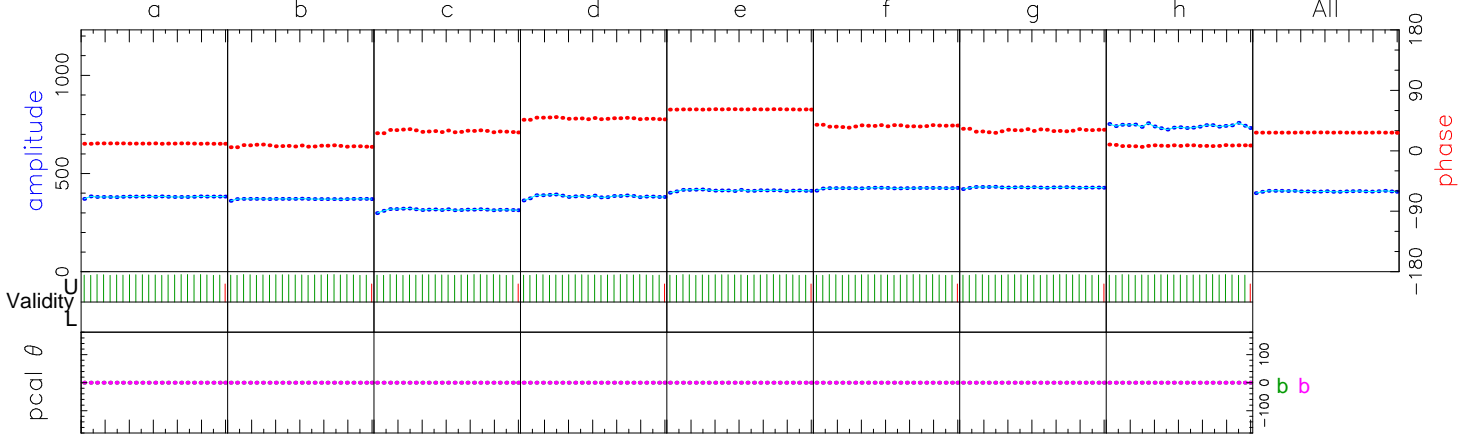
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-7.07535360969E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.07535E-20	+/-	7.2E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.5E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.002 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 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
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 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 75.0 el 47.2 pa -59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bb..193QBF Output file: /Exps/c201d/v1/1234/No0057/bb.W.2.193QBF

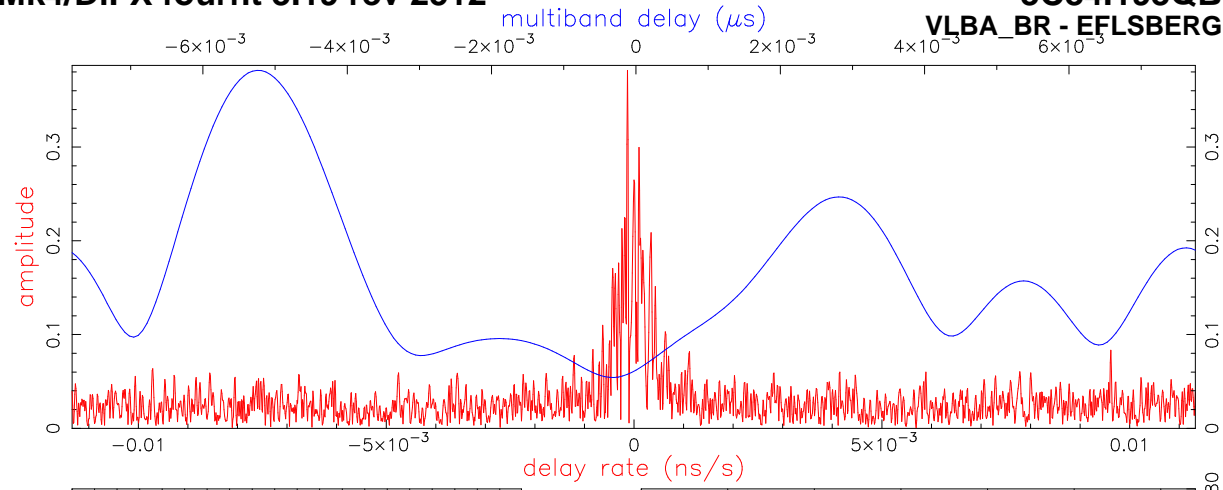


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-2.66231250000E-03				0.00000000000E+00			Resid mbdelay (usec)	-2.66231E-03 +/- 5.1E-08
Sband delay (usec)		-3.26175000000E-03				0.00000000000E+00			Resid sbdelay (usec)	-3.26175E-03 +/- 4.1E-07
Phase delay (usec)		8.72922400934E-07				0.00000000000E+00			Resid phdelay (usec)	8.72922E-07 +/- 1.7E-10
Delay rate (us/s)		1.34625947721E-11				0.00000000000E+00			Resid rate (us/s)	1.34626E-11 +/- 8.4E-13
Total phase (deg)			27.1			0.00000000000E+00			Resid phase (deg)	27.1 +/- 0.0

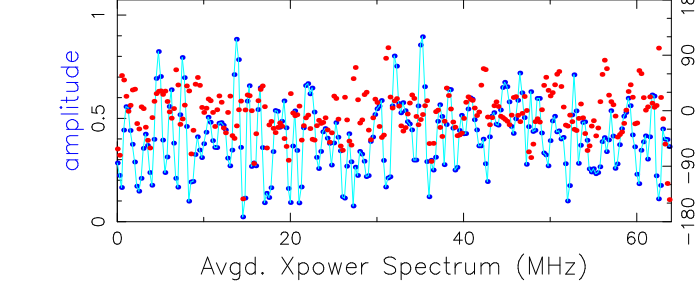
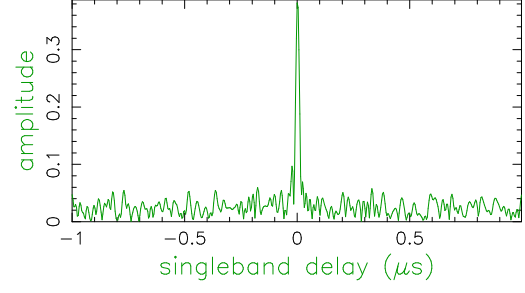
ph/seg (deg) 0.1 0.0 Theor. Amplitude 410.628 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.7 0.0 Search (2048X32) 400.327 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.5 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.1 0.0 Inc. seg. avg. 409.364 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 432.522 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 75.0 el 47.2 pa -59.5 b: az 75.0 el 47.2 pa -59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bb..193QBF Output file: /Exps/c201d/v1/1234/No0057/bb.W.30.193QBF



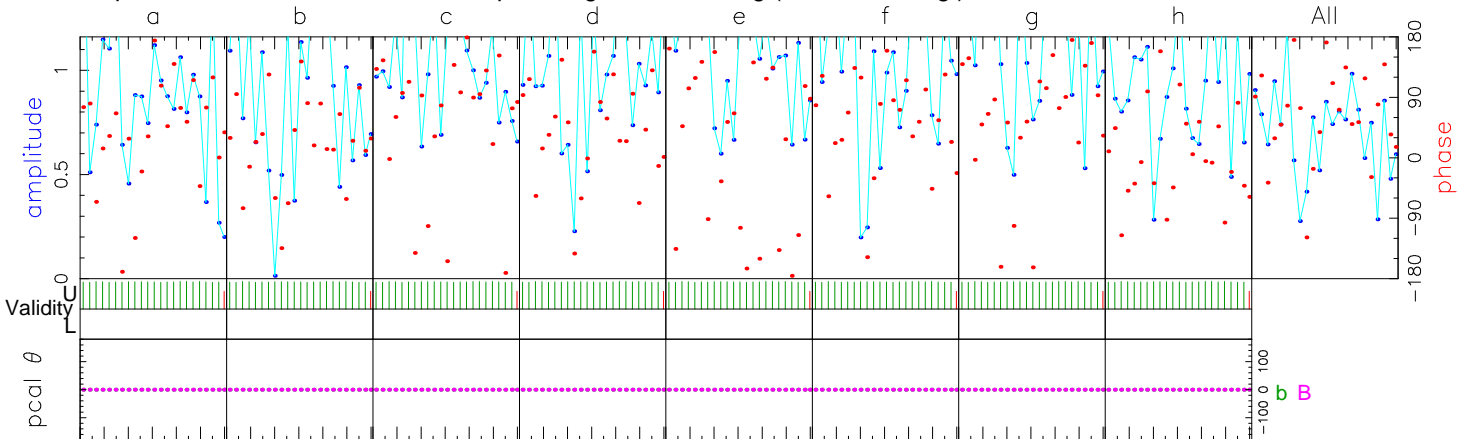
Fringe quality 8

SNR 19.9
Int time 354.450
Amp 0.387
Phase 73.5
PFD 0.0e+00
Delays (us)
SBD 0.001501
MBD -0.005201
Fringe rate (Hz) -0.011031
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122440
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



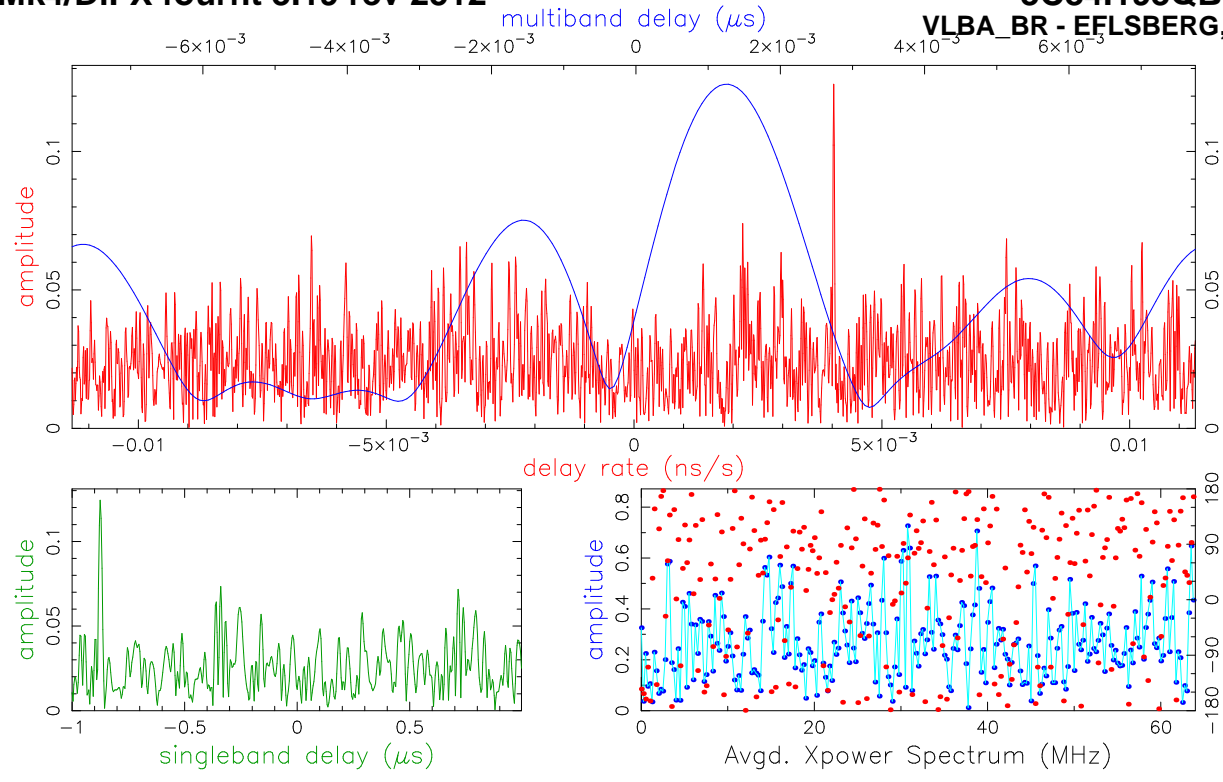
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	7.03438693935E+02	Apriori delay (usec)	7.03443895158E+02	Resid mbdelay (usec)	-5.20122E-03	+/-	5.4E-05
Sband delay (usec)	7.03445395908E+02	Apriori clock (usec)	-1.4439681E+01	Resid sbdelay (usec)	1.50075E-03	+/-	4.3E-04
Phase delay (usec)	7.03443897528E+02	Apriori clockrate (us/s)	1.5800000E-07	Resid phdelay (usec)	2.36980E-06	+/-	1.9E-07
Delay rate (us/s)	1.35121977056E+00	Apriori rate (us/s)	1.35121989862E+00	Resid rate (us/s)	-1.28060E-07	+/-	8.9E-10
Total phase (deg)	119.9	Apriori accel (us/s/s)	-5.86097415492E-06	Resid phase (deg)	73.5	+/-	5.8

ph/seg (deg)	67.1	RMS	67.1	Theor.	13.8	Amplitude	0.387 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	100.7		100.7		24.1	Search (2048X32)	0.362	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	51.8		51.8		8.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	36.7		36.7		14.2	Inc. seg. avg.	0.690	Sample rate(MISamp/s):	128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.499	Data rate(Mb/s):	2048	nlags:	256	t_cohere	infinite	

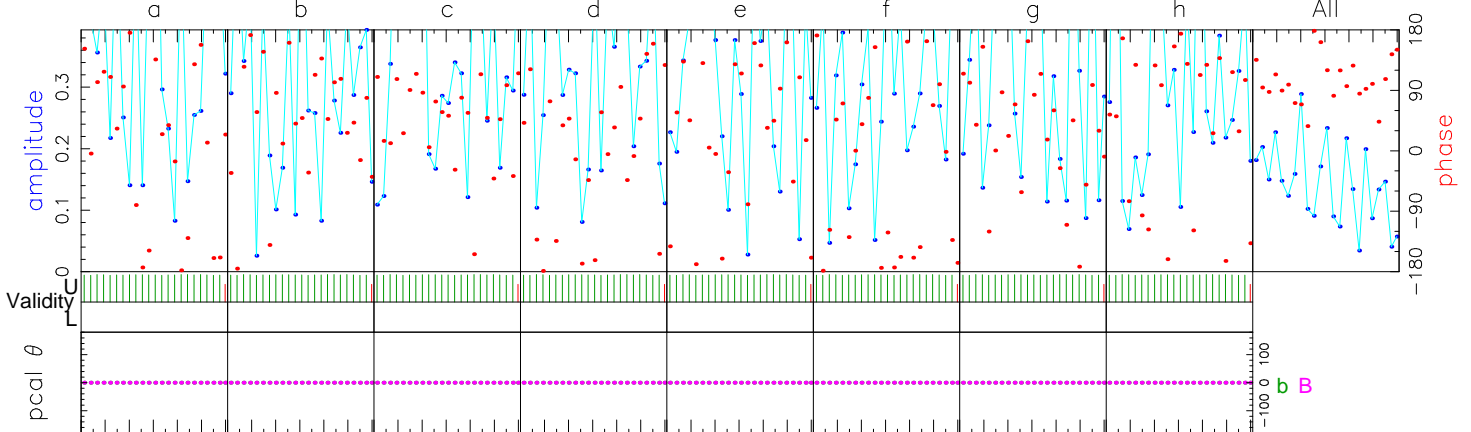
b: az 75.0 el 47.2 pa -59.5 B: az 284.8 el 45.4 pa 55.3 u,v (fr/asec) -10351.948 -518.946 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bB..193QBF Output file: /Exps/c201d/v1/1234/No0057/bB.W.3.193QBF



Fringe quality 0
SNR 6.4
Int time 354.450
Amp 0.131
Phase 100.9
PFD 4.1e-02
Delays (us)
SBD -0.874724
MBD 0.001259
Fringe rate (Hz) 0.347398
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122448
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

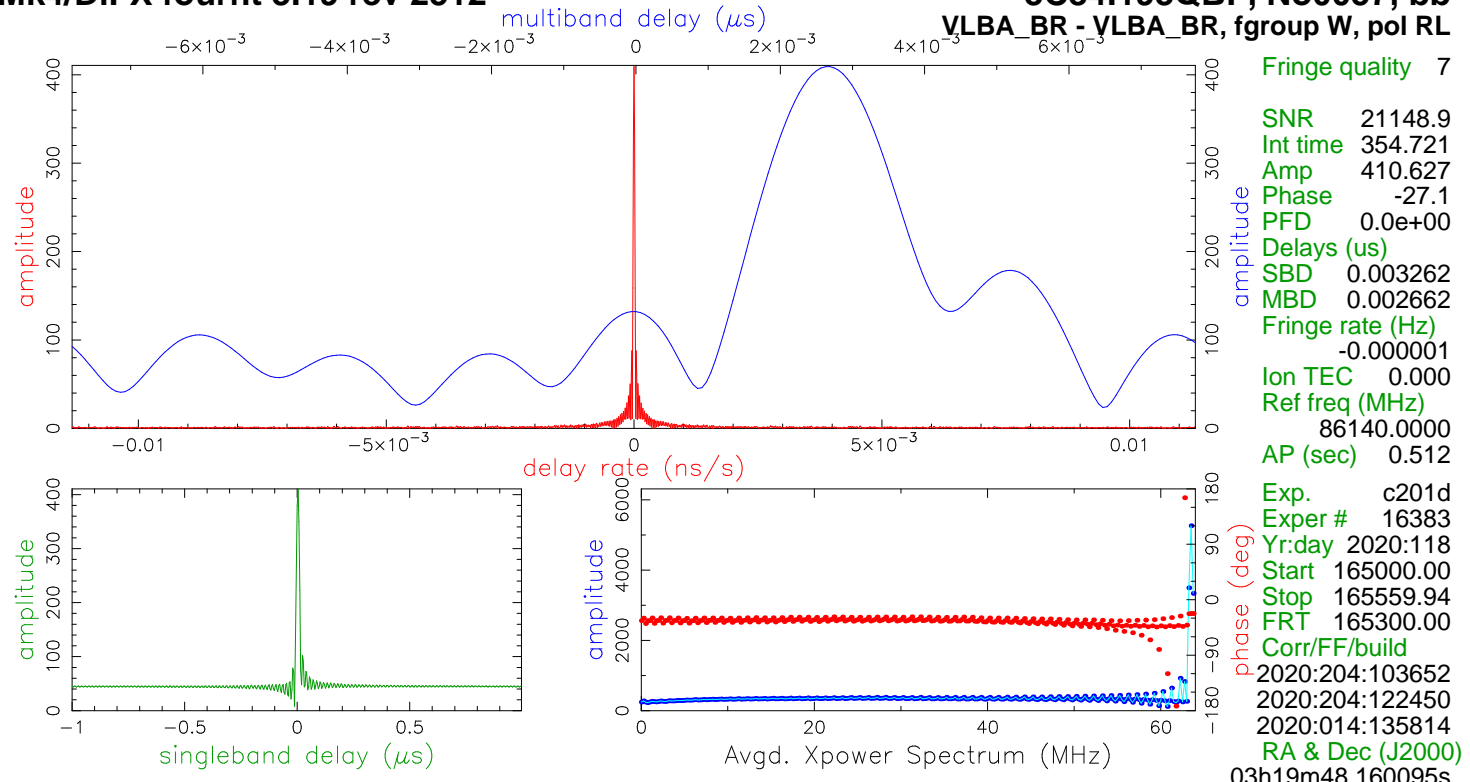


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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		

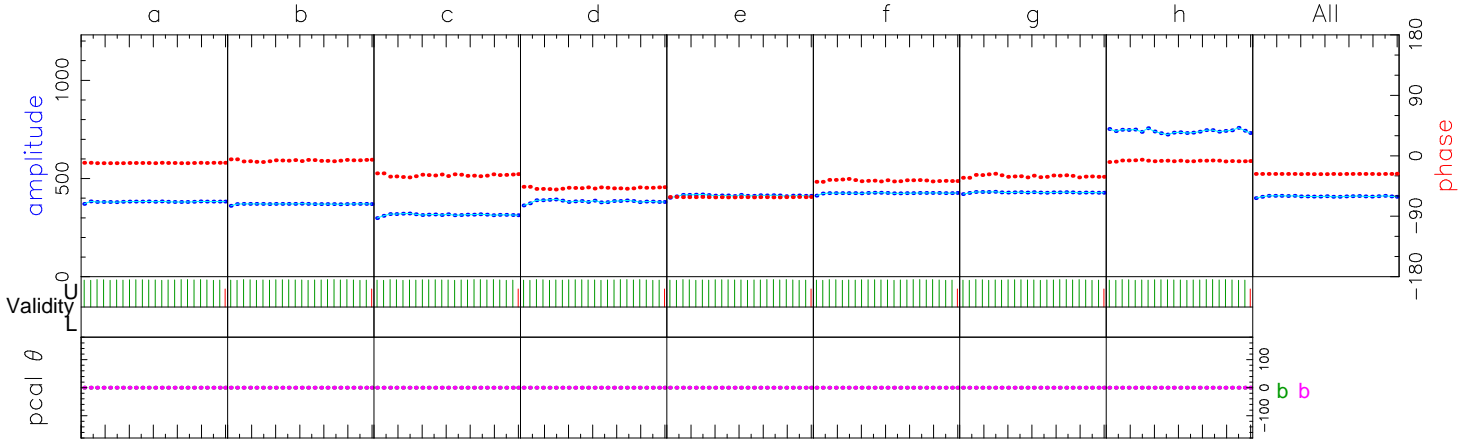
Group delay (usec)(sbd) 7.02570154106E+02 Apriori delay (usec) 7.03443895158E+02 Resid mbdelay (usec) 1.25895E-03 +/- 1.7E-04
Sband delay (usec) 7.02569170908E+02 Apriori clock (usec) -1.4439681E+01 Resid sbdelay (usec) -8.74724E-01 +/- 1.3E-03
Phase delay (usec) 7.03443898412E+02 Apriori clockrate (us/s) 1.5800000E-07 Resid phdelay (usec) 3.25346E-06 +/- 5.8E-07
Delay rate (us/s) 1.35122393156E+00 Apriori rate (us/s) 1.35121989862E+00 Resid rate (us/s) 4.03294E-06 +/- 2.8E-09
Total phase (deg) 147.3 Apriori accel (us/s/s) -5.86097415492E-06 Resid phase (deg) 100.9 +/- 17.9

ph/seg (deg) 34.1 42.9 Search (2048X32) 0.122 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 54.3 74.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 38.3 25.3 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 39.4 44.2 Inc. frq. avg. 0.141 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 B: az 284.8 el 45.4 pa 55.3 u,v (fr/asec) -10351.948 -518.946 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bB..193QBF Output file: /Exps/c201d/v1/1234/No0057/bB.W.39.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

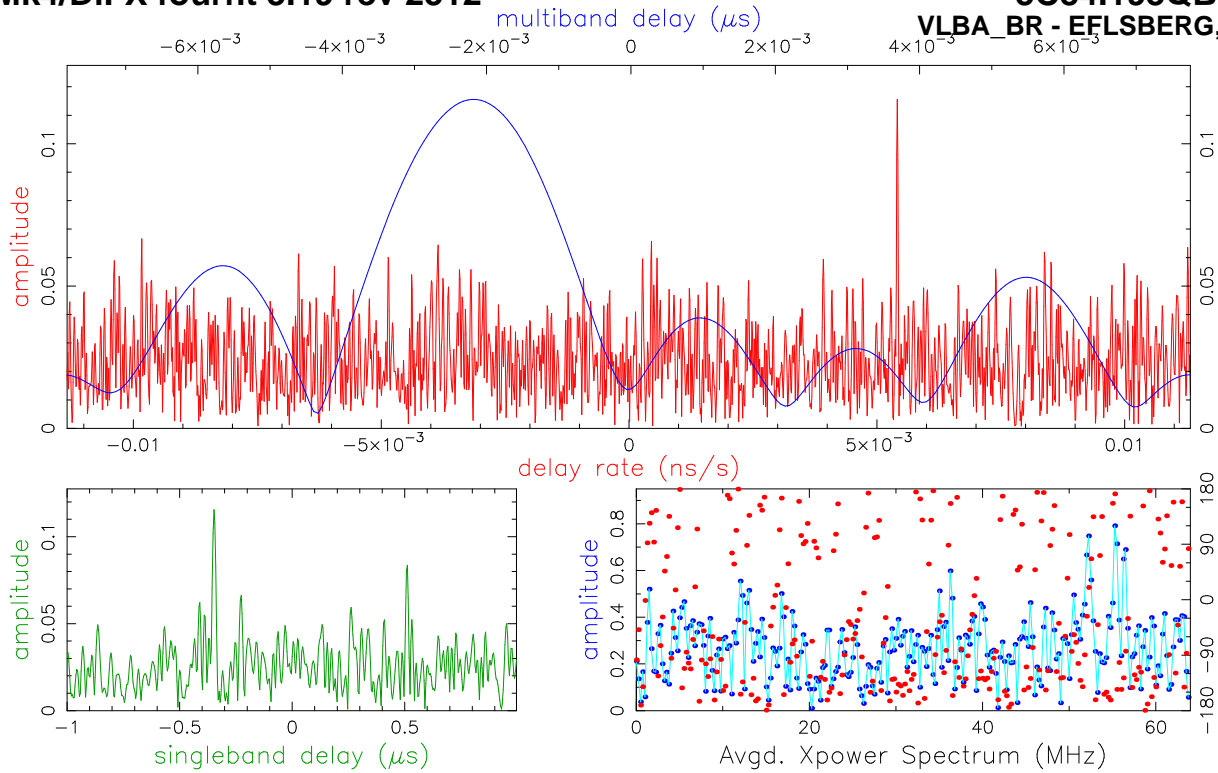


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-10.7	-7.2	-29.1	-48.0	-61.6	-37.0	-30.3	-7.6	Phase	-27.1
	381.6	370.1	315.4	383.4	413.6	425.3	429.1	741.7	Ampl.	432.5
	257.8	257.7	257.4	257.4	257.9	257.8	257.9	257.8	Sbd box	257.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.66231250000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.66231E-03	+/- 5.1E-08
Sband delay (usec)	3.26175000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		3.26175E-03	+/- 4.1E-07
Phase delay (usec)	-8.72922400903E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-8.72922E-07	+/- 1.7E-10
Delay rate (us/s)	-1.34625947721E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.34626E-11	+/- 8.4E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-27.1	+/- 0.0

	RMS	Theor.	Amplitude	410.627 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	0.1	0.0	Search (2048X32)	400.327	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	0.7	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	21.5	0.0	Inc. seg. avg.	409.364	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	30.1	0.0	Inc. frq. avg.	432.522	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

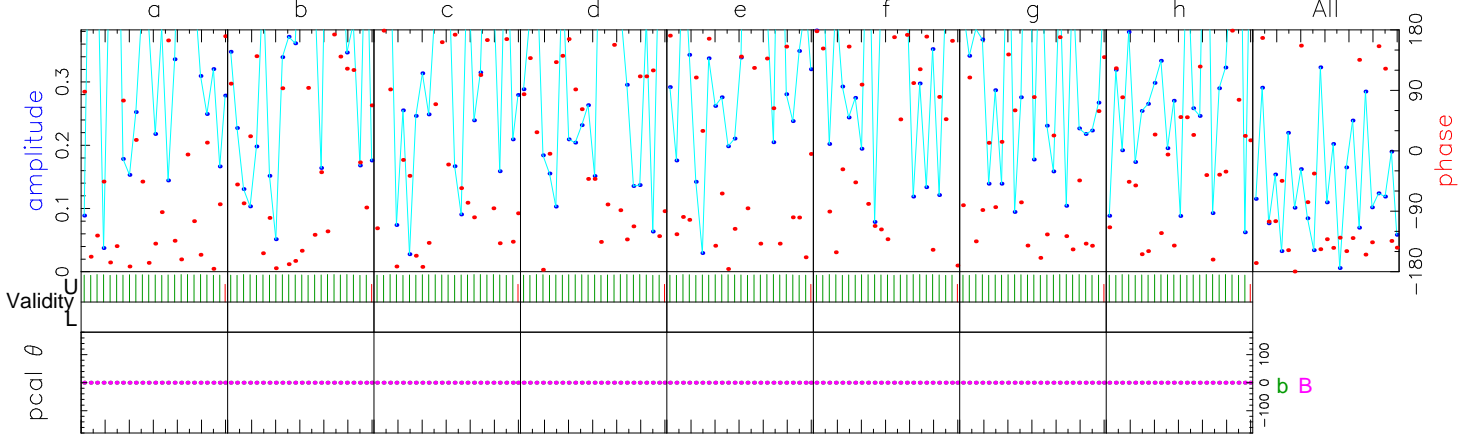
b: az 75.0 el 47.2 pa -59.5 b: az 75.0 el 47.2 pa -59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bb..193QBF Output file: /Exps/c201d/v1/1234/No0057/bb.W.46.193QBF



Fringe quality 0
SNR 6.0
Int time 354.450
Amp 0.128
Phase -153.4
PFD 4.7e-01
Delays (us)
SBD -0.347050
MBD -0.002175
Fringe rate (Hz) 0.467302
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122452
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

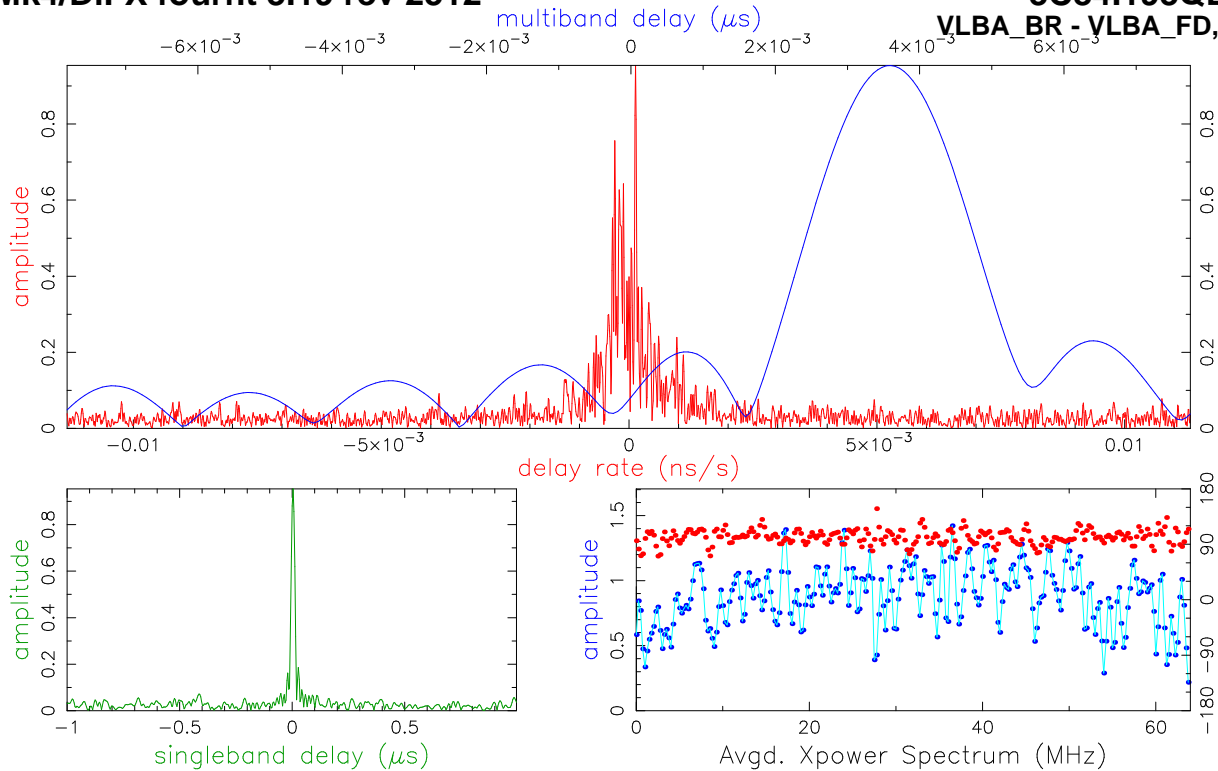
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-136.2	-172.7	-160.5	-168.2	-143.3	-172.0	-147.7	9.6	Phase	-153.4
	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	Ampl.	0.1
	166.8	429.9	291.5	218.7	197.8	250.5	428.5	323.0	Sbd box	168.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.03097969813E+02		Apriori delay (usec)		7.03443895158E+02		Resid mbdelay (usec)		-2.17535E-03	+/- 1.8E-04
Sband delay (usec)	7.03096845408E+02		Apriori clock (usec)		-1.4439681E+01		Resid sbdelay (usec)		-3.47050E-01	+/- 1.4E-03
Phase delay (usec)	7.03443890210E+02		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-4.94826E-06	+/- 6.2E-07
Delay rate (us/s)	1.35122532354E+00		Apriori rate (us/s)		1.35121989862E+00		Resid rate (us/s)		5.42492E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-5.86097415492E-06		Resid phase (deg)		-153.4	+/- 19.2

	RMS	Theor.	Amplitude	0.128 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	51.0	46.1	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	76.9	80.4	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	68.3	27.2	Inc. seg. avg.	0.119	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	42.1	47.4	Inc. frq. avg.	0.134					

b: az 75.0 el 47.2 pa -59.5 B: az 284.8 el 45.4 pa 55.3 u,v (fr/asec) -10351.948 -518.946 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bB..193QBF Output file: /Exps/c201d/v1/1234/No0057/bB.W.58.193QBF

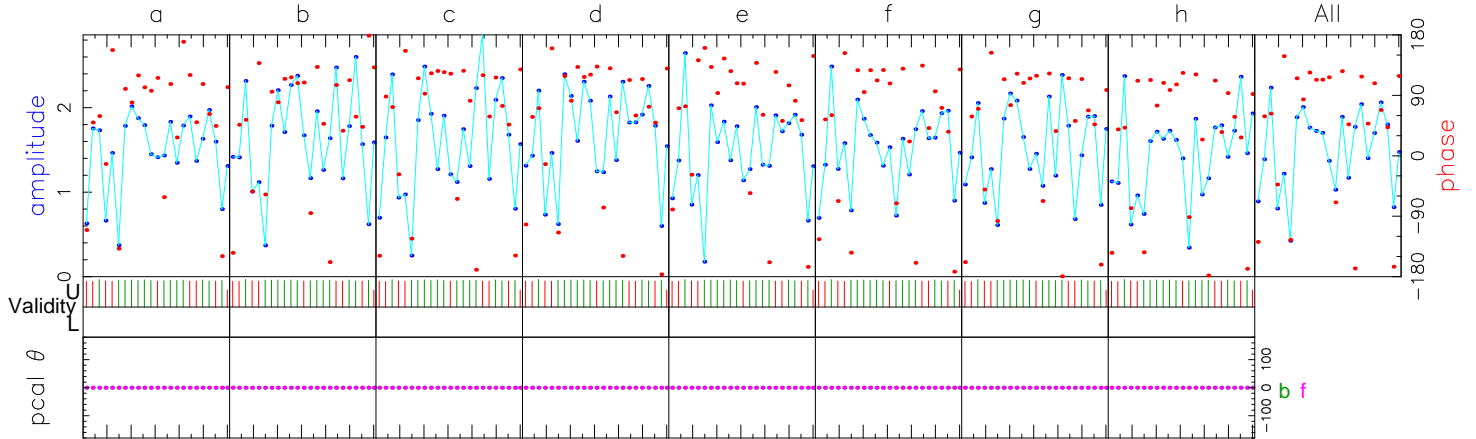


Fringe quality 5

SNR 48.5
Int time 345.259
Amp 0.954
Phase 101.9
PFD 0.0e+00
Delays (us)
SBD 0.003629
MBD 0.003580
Fringe rate (Hz) 0.011740
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

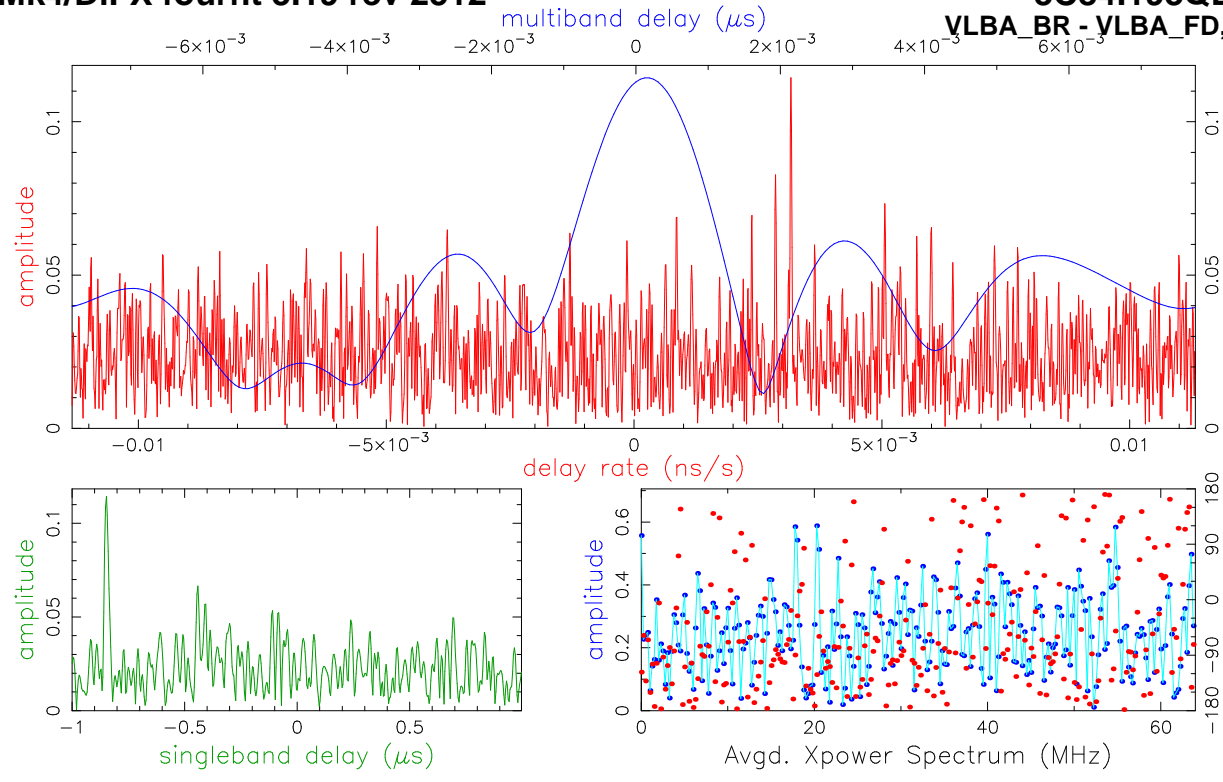
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122446
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	92.6	96.9	109.7	108.2	105.4	105.4	104.6	90.7	Phase	101.9
	0.9	1.0	1.1	1.0	0.9	0.9	0.9	0.9	Ampl.	1.0
	257.9	258.2	258.0	257.7	258.3	258.0	257.7	257.5	Sbd box	257.9
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	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	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18869503413E+03		Apriori delay (usec)		-1.18869861388E+03		Resid mbdelay (usec)		3.57975E-03	+/- 2.2E-05
Sband delay (usec)	-1.18869498463E+03		Apriori clock (usec)		-5.3325319E+00		Resid sbdelay (usec)		3.62925E-03	+/- 1.8E-04
Phase delay (usec)	-1.18869861059E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		3.28752E-06	+/- 7.6E-08
Delay rate (us/s)	-2.89424196232E-02		Apriori rate (us/s)		-2.89425559185E-02		Resid rate (us/s)		1.36295E-07	+/- 3.7E-10
Total phase (deg)			Apriori accel (us/s/s)		2.38899815728E-05		Resid phase (deg)		101.9	+/- 2.4

ph/seg (deg) 72.8 5.7 Search (2048X32) 0.929 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.2 9.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.8 3.3 Inc. seg. avg. 1.501 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.4 5.8 Inc. frq. avg. 0.959 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 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.25.193QBF

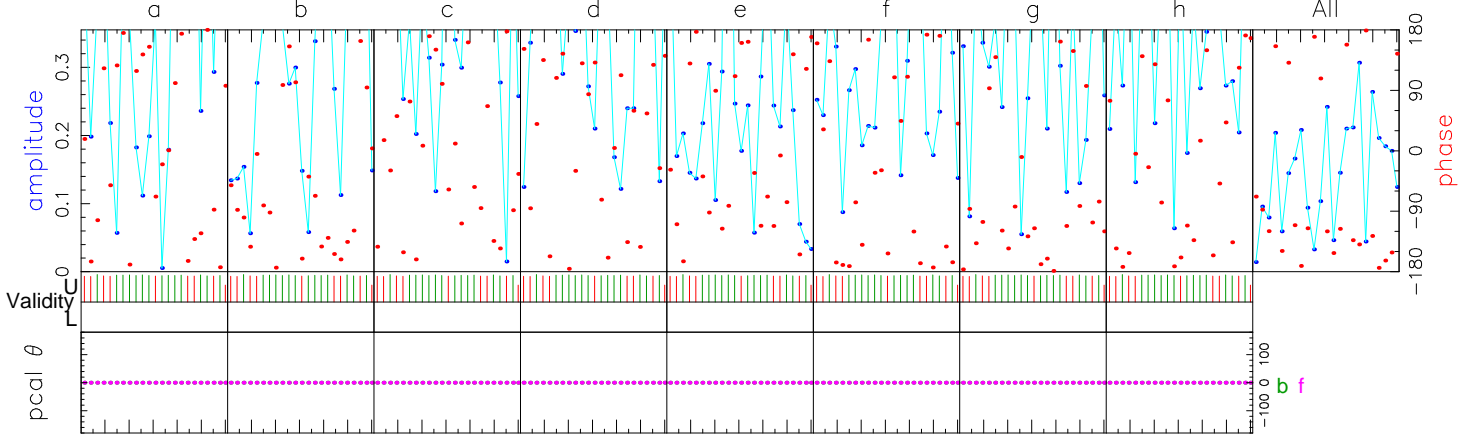


Fringe quality 0

SNR 5.8
Int time 345.258
Amp 0.118
Phase -153.8
PFD 7.6e-01
Delays (us)
SBD -0.848337
MBD 0.000142
Fringe rate (Hz) 0.272957
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122449
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



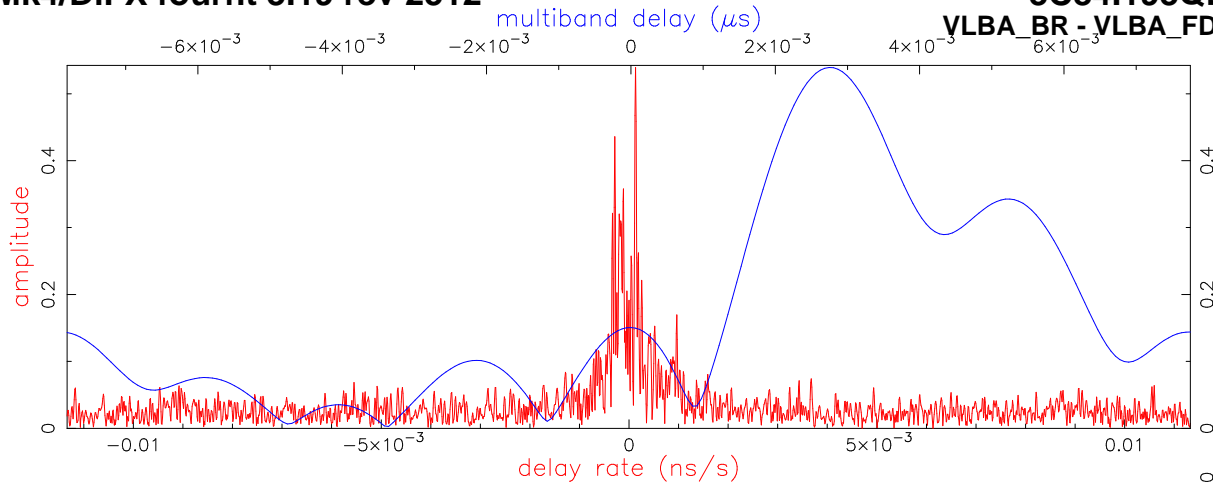
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-176.2	-142.3	-65.7	148.5	-95.7	-170.7	-144.8	-169.4	Phase	-153.8
	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	38.2	260.8	333.7	181.0	339.4	369.4	40.2	144.1	Sbd box	39.8
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	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	

Group delay (usec)(sbd)	-1.18954222195E+03	Apriori delay (usec)	-1.18869861388E+03	Resid mbdelay (usec)	1.41921E-04	+/-	1.9E-04
Sband delay (usec)	-1.18954695138E+03	Apriori clock (usec)	-5.3325319E+00	Resid sbdelay (usec)	-8.48337E-01	+/-	1.5E-03
Phase delay (usec)	-1.18869861883E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	-4.95819E-06	+/-	6.3E-07
Delay rate (us/s)	-2.89393871567E-02	Apriori rate (us/s)	-2.89425559185E-02	Resid rate (us/s)	3.16876E-06	+/-	3.1E-09
Total phase (deg)	-9.5	Apriori accel (us/s/s)	2.38899815728E-05	Resid phase (deg)	-153.8	+/-	19.7

ph/seg (deg)	44.9	Theor.	47.2	Search (2048X32)	0.112	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.8		82.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	51.1		27.8	Inc. seg. avg.	0.113	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.2		48.6	Inc. frq. avg.	0.132	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

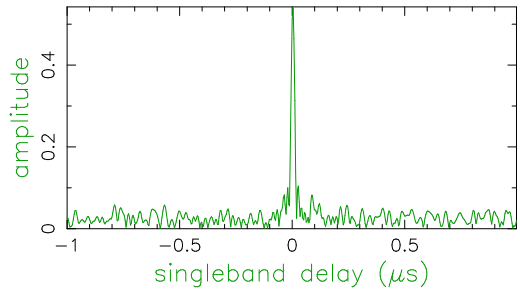
b: az 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.44.193QBF

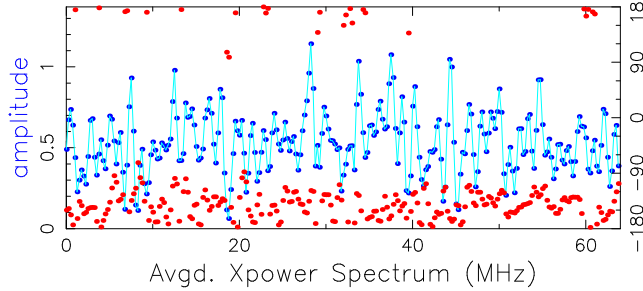


Fringe quality 5

SNR 27.6
Int time 345.256
Amp 0.542
Phase -142.2
PFD 0.0e+00
Delays (us)
SBD 0.002964
MBD 0.002742
Fringe rate (Hz)
0.011757
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

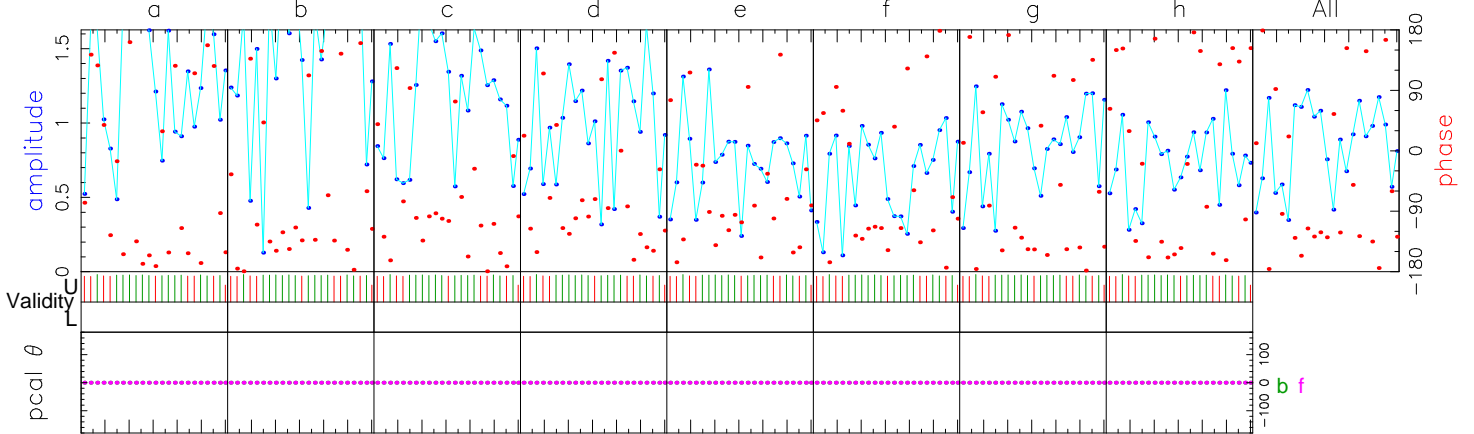


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122440
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

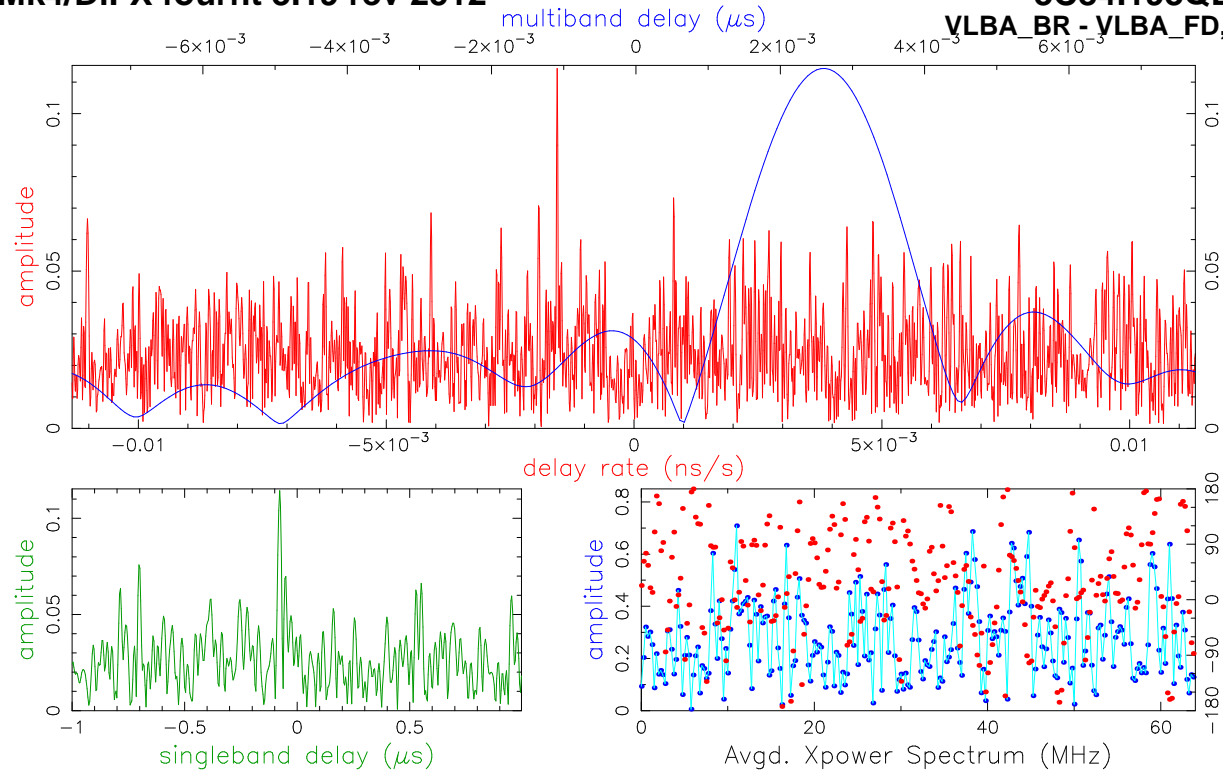


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-176.5	-145.9	-114.9	-107.8	-111.0	-136.6	-160.9	-170.7	Phase	-142.2
	0.8	1.0	0.7	0.6	0.4	0.3	0.5	0.4	Ampl.	0.6
	257.9	258.2	258.0	257.6	257.2	257.3	257.9	257.1	Sbd box	257.8
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.18869587219E+03	Apriori delay (usec)	-1.18869861388E+03	Resid mbdelay (usec)	2.74169E-03	+/-	3.9E-05
Sband delay (usec)	-1.18869564963E+03	Apriori clock (usec)	-5.3325319E+00	Resid sbdelay (usec)	2.96425E-03	+/-	3.1E-04
Phase delay (usec)	-1.18869861846E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	-4.58640E-06	+/-	1.3E-07
Delay rate (us/s)	-2.89424194312E-02	Apriori rate (us/s)	-2.89425559185E-02	Resid rate (us/s)	1.36487E-07	+/-	6.5E-10
Total phase (deg)	-357.9	Apriori accel (us/s/s)	2.38899815728E-05	Resid phase (deg)	-142.2	+/-	4.2

ph/seg (deg)	RMS 75.2	Theor. 10.0	Amplitude Search (2048X32)	0.542 +/- 0.020	0.522	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.9	17.4	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)	29.7	5.9	Inc. seg. avg.	0.837	0.837	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.9	10.3	Inc. frq. avg.	0.594	0.594	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.5.193QBF

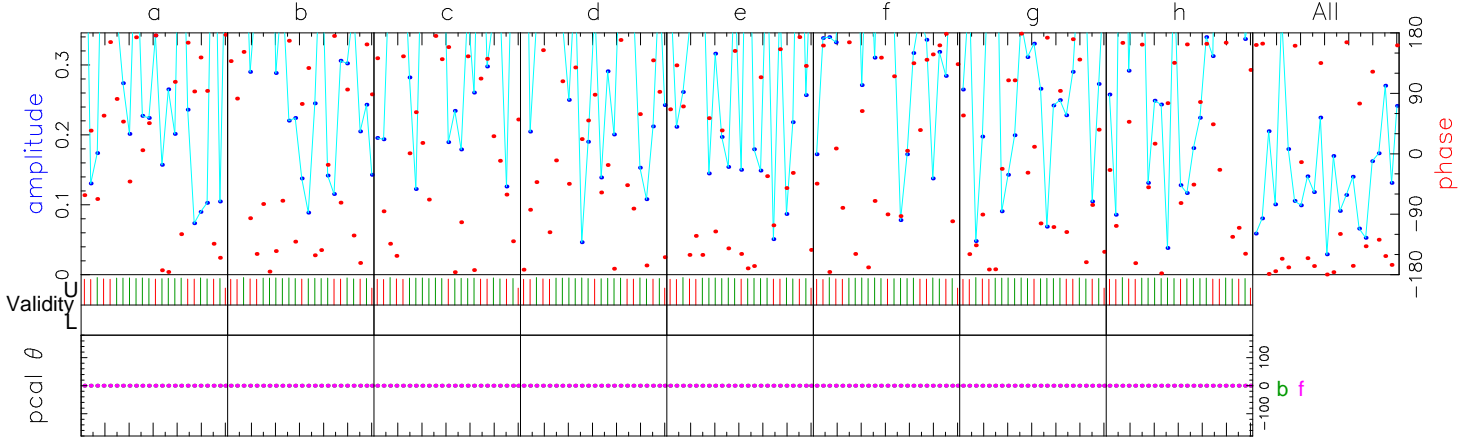


Fringe quality 0

SNR 5.8
Int time 345.257
Amp 0.115
Phase -174.7
PFD 7.8e-01
Delays (us)
SBD -0.077769
MBD 0.002617
Fringe rate (Hz)
-0.133553
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122453
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

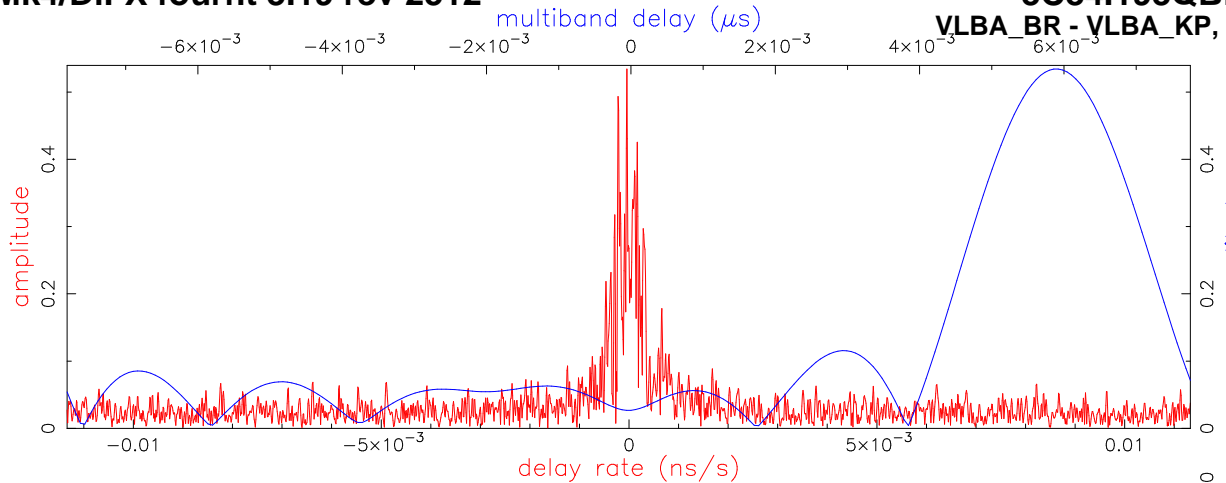


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.18877412237E+03				-1.18869861388E+03				2.61651E-03	+/- 1.9E-04
Sband delay (usec)	-1.18877638263E+03				-5.3325319E+00				-7.77688E-02	+/- 1.5E-03
Phase delay (usec)	-1.18869861951E+03				-1.5100001E-07				-5.63260E-06	+/- 6.4E-07
Delay rate (us/s)	-2.89441063312E-02				-2.89425559185E-02				-1.55041E-06	+/- 3.1E-09
Total phase (deg)			-30.4		2.38899815728E-05				-174.7	+/- 19.7
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)										
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										
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) 49.7 47.2 Search (2048X32) 0.113
amp/seg (%) 71.8 82.5 Interp. 0.000
ph/frq (deg) 7.7 27.9 Inc. seg. avg. 0.108
amp/frq (%) 28.4 48.6 Inc. frq. avg. 0.104

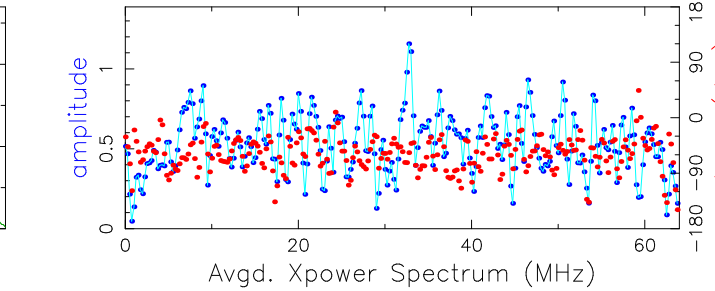
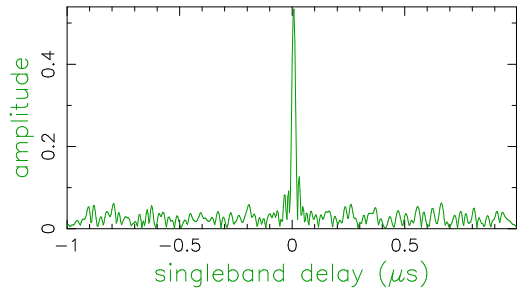
b: az 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.64.193QBF



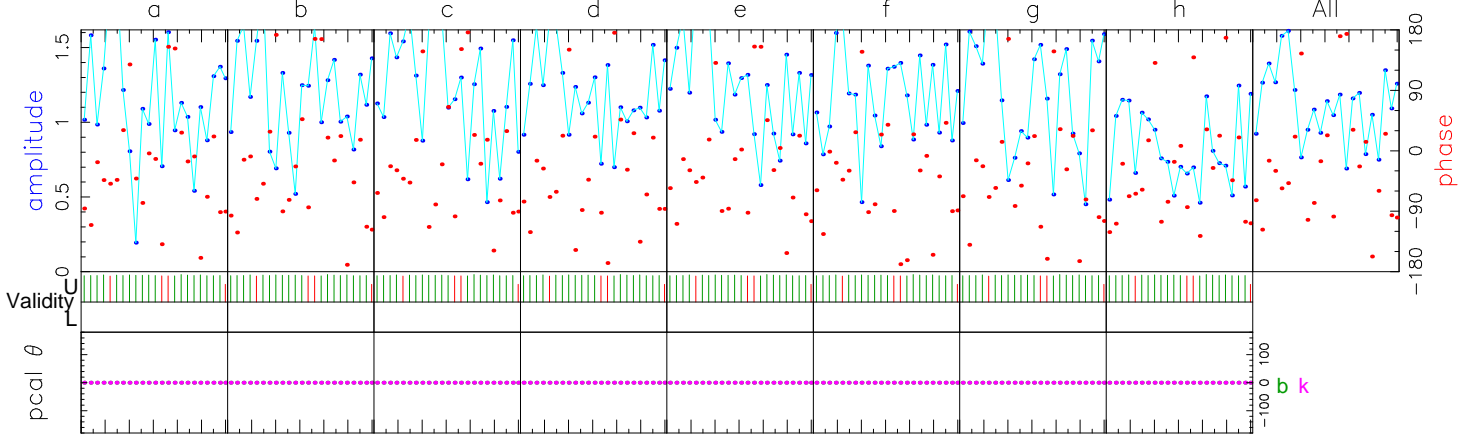
Fringe quality 7

SNR 27.5
Int time 347.804
Amp 0.540
Phase -49.6
PFD 0.0e+00
Delays (us)
SBD 0.006517
MBD 0.005861
Fringe rate (Hz)
-0.004236
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122444
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



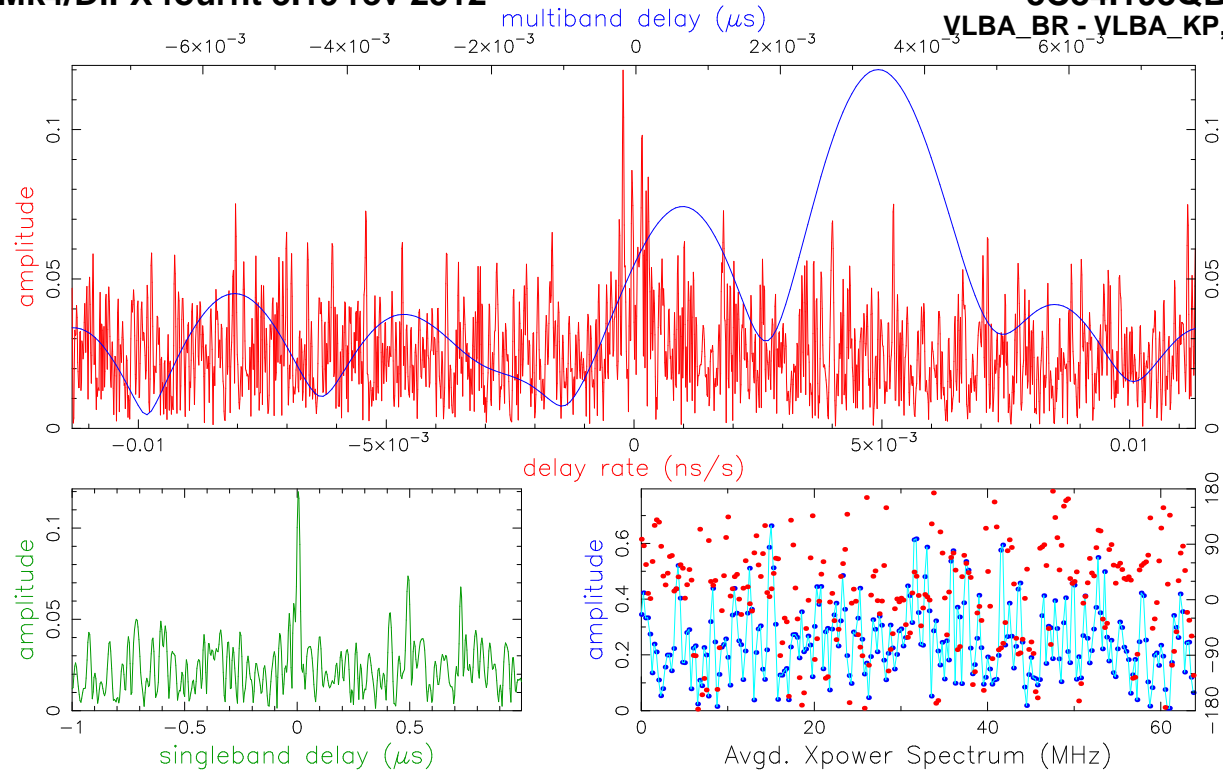
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	2.98401901248E+01	Apriori delay (usec)	2.98343286785E+01	Resid mbdelay (usec)	5.86145E-03	+/-	3.9E-05
Sband delay (usec)	2.98408459285E+01	Apriori clock (usec)	-1.0740956E+00	Resid sbdelay (usec)	6.51725E-03	+/-	3.1E-04
Phase delay (usec)	2.98343270785E+01	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	-1.59998E-06	+/-	1.3E-07
Delay rate (us/s)	-1.06262292162E-01	Apriori rate (us/s)	-1.06262242987E-01	Resid rate (us/s)	-4.91753E-08	+/-	6.5E-10
Total phase (deg)	-23.6	Apriori accel (us/s/s)	1.59572956347E-05	Resid phase (deg)	-49.6	+/-	4.2

ph/seg (deg)	RMS 73.5	Theor. 10.0	Amplitude 0.540 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	115.7	17.4	Search (2048X32) 0.511	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	4.8	5.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	14.9	10.3	Inc. seg. avg. 1.098	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
			Inc. frq. avg. 0.533	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

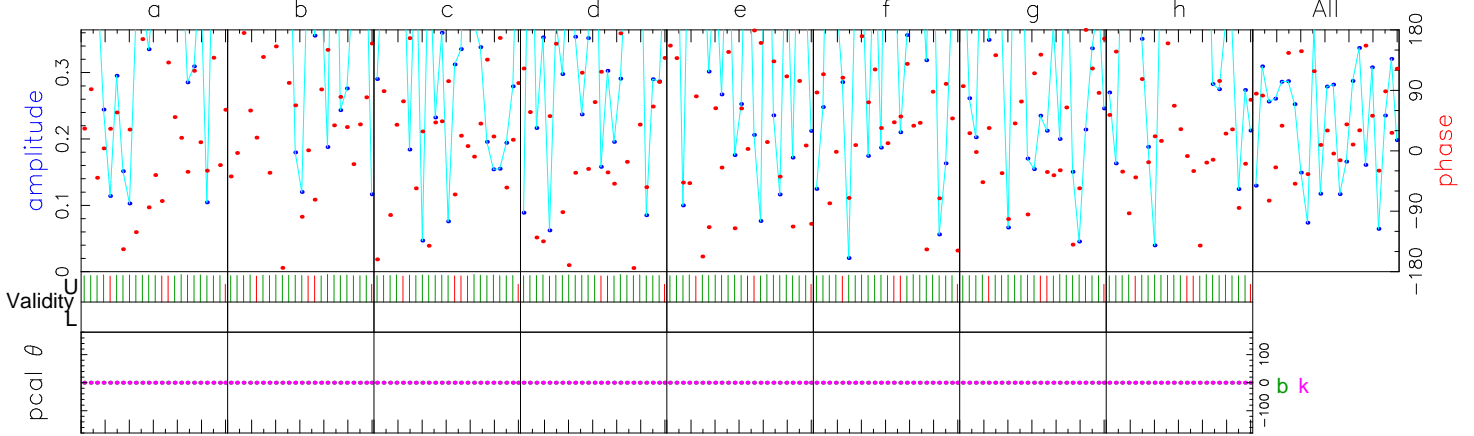
b: az 75.0 el 47.2 pa -59.5 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 830.589 2533.454 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bk..193QBF Output file: /Exps/c201d/v1/1234/No0057/bk.W.19.193QBF



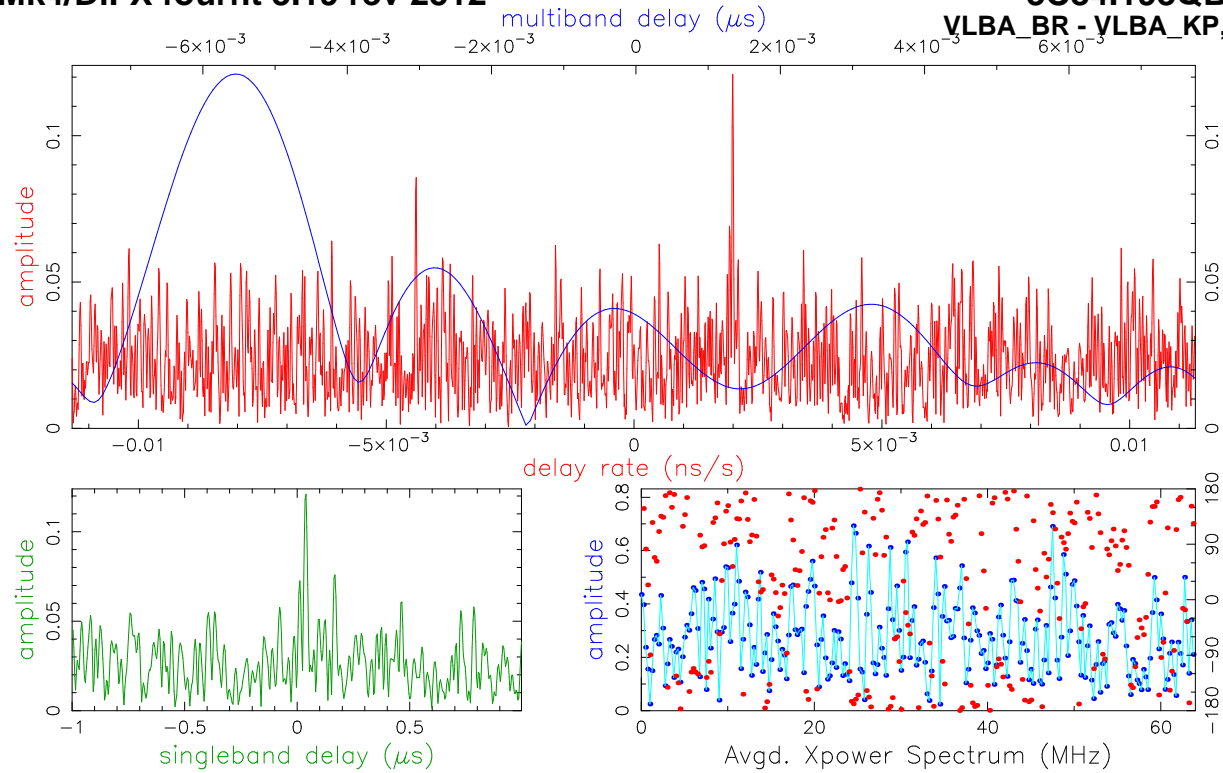
Fringe quality 0
SNR 6.2
Int time 347.803
Amp 0.121
Phase 41.1
PFD 1.4e-01
Delays (us)
SBD 0.005302
MBD 0.003415
Fringe rate (Hz)
-0.019484
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122449
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



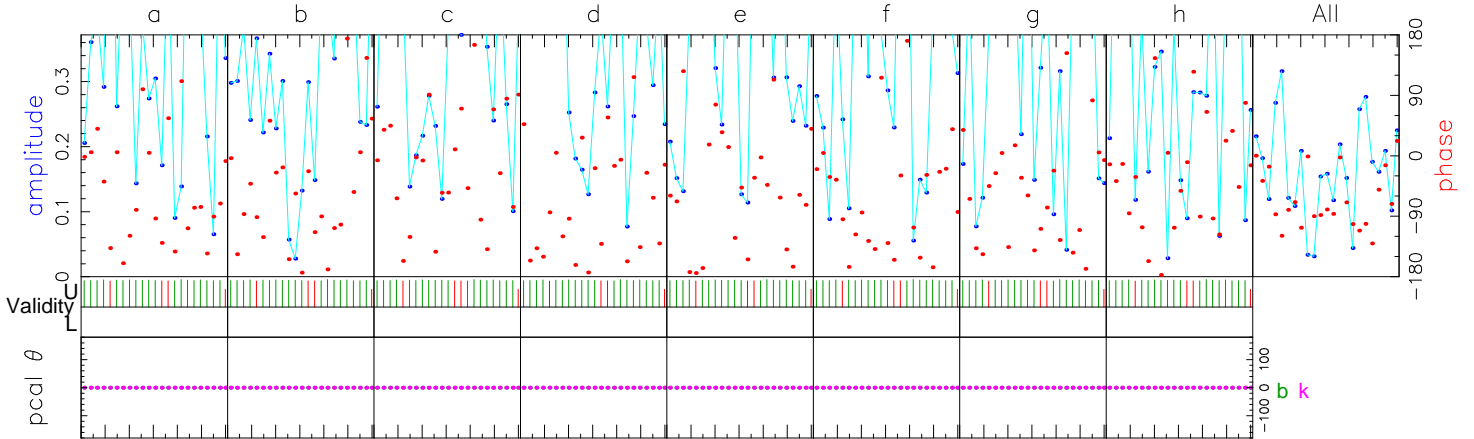
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.98377440351E+01		Apriori delay (usec)		2.98343286785E+01		Resid mbdelay (usec)		3.41536E-03	+/- 1.8E-04
Sband delay (usec)	2.98396306785E+01		Apriori clock (usec)		-1.0740956E+00		Resid sbdelay (usec)		5.30200E-03	+/- 1.4E-03
Phase delay (usec)	2.98343300030E+01		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		1.32444E-06	+/- 6.0E-07
Delay rate (us/s)	-1.06262469180E-01		Apriori rate (us/s)		-1.06262242987E-01		Resid rate (us/s)		-2.26193E-07	+/- 2.9E-09
Total phase (deg)			67.1		1.59572956347E-05		Resid phase (deg)		41.1	+/- 18.5

ph/seg (deg) 65.2 44.4 Search (2048X32) 0.117 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 113.5 77.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 34.4 26.2 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.1 45.7 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 75.0 el 47.2 pa -59.5 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 830.589 2533.454 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bk..193QBF Output file: /Exps/c201d/v1/1234/No0057/bk.W.40.193QBF



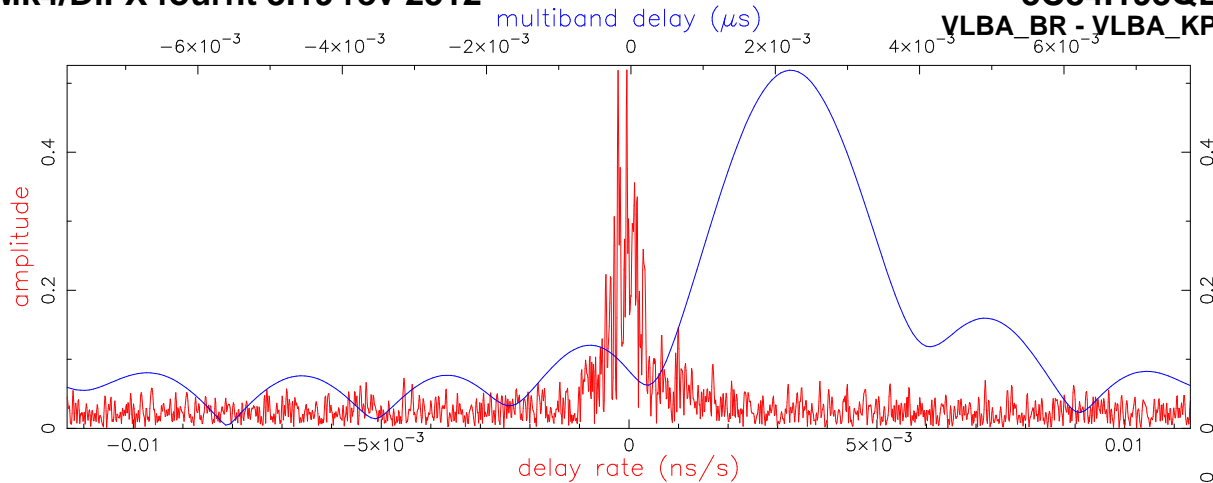
Fringe quality 0
SNR 6.2
Int time 347.804
Amp 0.124
Phase -71.9
PFD 1.1e-01
Delays (us)
SBD 0.037627
MBD -0.005596
Fringe rate (Hz) 0.171510
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122452
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-79.8	-84.1	-10.8	-95.2	-54.0	-93.8	-77.2	-49.5	Phase	-71.9
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	50.5	150.0	433.7	161.6	11.0	266.1	375.4	104.7	Sbd box	266.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.98756072819E+01		Apriori delay (usec)		2.98343286785E+01		Resid mbdelay (usec)		-5.59640E-03	+/- 1.7E-04
Sband delay (usec)	2.98719554285E+01		Apriori clock (usec)		-1.0740956E+00		Resid sbdelay (usec)		3.76268E-02	+/- 1.4E-03
Phase delay (usec)	2.98343263586E+01		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-2.31995E-06	+/- 5.9E-07
Delay rate (us/s)	-1.06260251926E-01		Apriori rate (us/s)		-1.06262242987E-01		Resid rate (us/s)		1.99106E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		1.59572956347E-05		Resid phase (deg)		-71.9	+/- 18.4

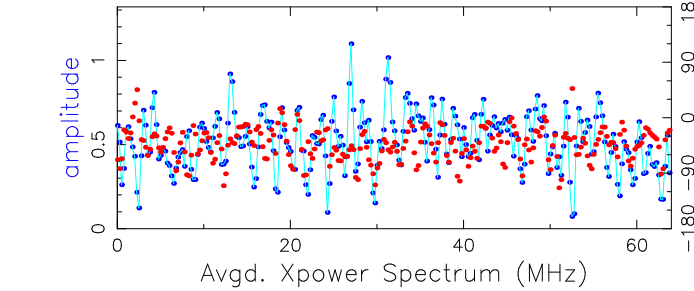
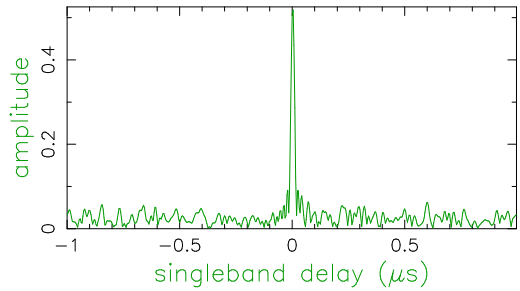
ph/seg (deg) 42.2 44.0 Search (2048X32) 0.119 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.0 76.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 31.1 26.0 Inc. seg. avg. 0.129 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 18.3 45.3 Inc. frq. avg. 0.122 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 75.0 el 47.2 pa -59.5 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 830.589 2533.454 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bk..193QBF Output file: /Exps/c201d/v1/1234/No0057/bk.W.59.193QBF



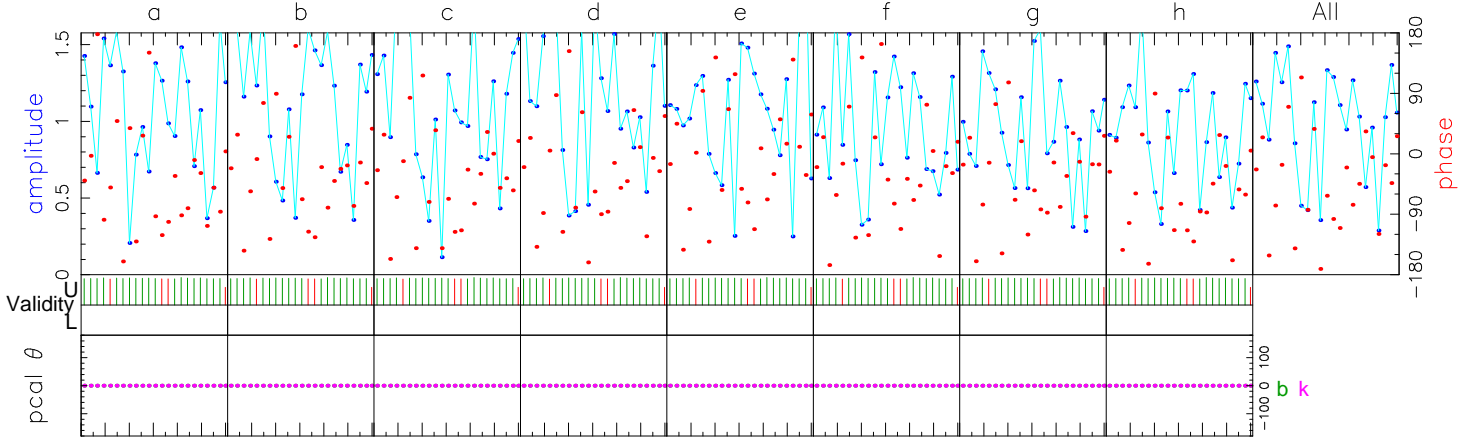
Fringe quality 7

SNR 26.8
Int time 347.804
Amp 0.526
Phase -39.4
PFD 0.0e+00
Delays (us)
SBD 0.002413
MBD 0.002171
Fringe rate (Hz) -0.019275
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122440
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

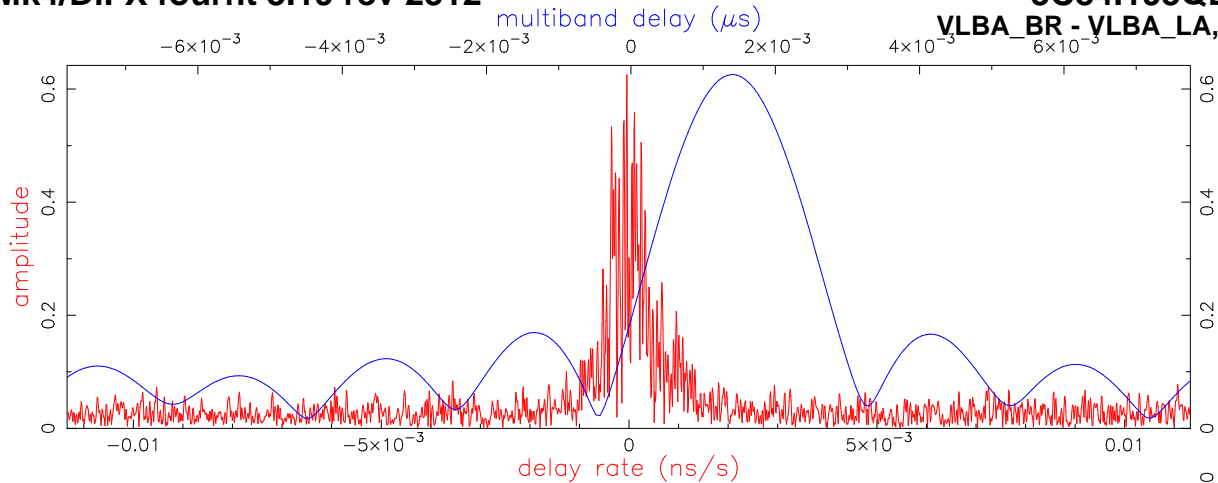


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.6	-36.9	-33.6	-25.0	-18.7	-36.4	-36.7	-60.4	Phase	-39.4
	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	Ampl.	0.5
	257.6	258.0	257.6	257.5	257.6	257.4	257.6	256.8	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.98365000663E+01		Apriori delay (usec)		2.98343286785E+01		Resid mbdelay (usec)		2.17139E-03	+/- 4.0E-05
Sband delay (usec)	2.98367414285E+01		Apriori clock (usec)		-1.0740956E+00		Resid sbdelay (usec)		2.41275E-03	+/- 3.2E-04
Phase delay (usec)	2.98343274095E+01		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-1.26905E-06	+/- 1.4E-07
Delay rate (us/s)	-1.06262466746E-01		Apriori rate (us/s)		-1.06262242987E-01		Resid rate (us/s)		-2.23759E-07	+/- 6.6E-10
Total phase (deg)			Apriori accel (us/s/s)		1.59572956347E-05		Resid phase (deg)		-39.4	+/- 4.3

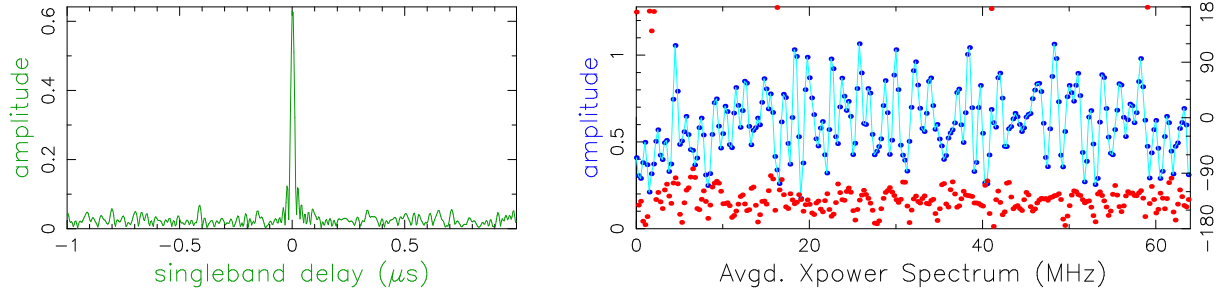
ph/seg (deg) 71.8 10.2 Search (2048X32) 0.502 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 111.5 17.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.2 6.0 Inc. seg. avg. 0.979 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 9.9 10.6 Inc. frq. avg. 0.535 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 75.0 el 47.2 pa -59.5 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 830.589 2533.454 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bk..193QBF Output file: /Exps/c201d/v1/1234/No0057/bk.W.6.193QBF



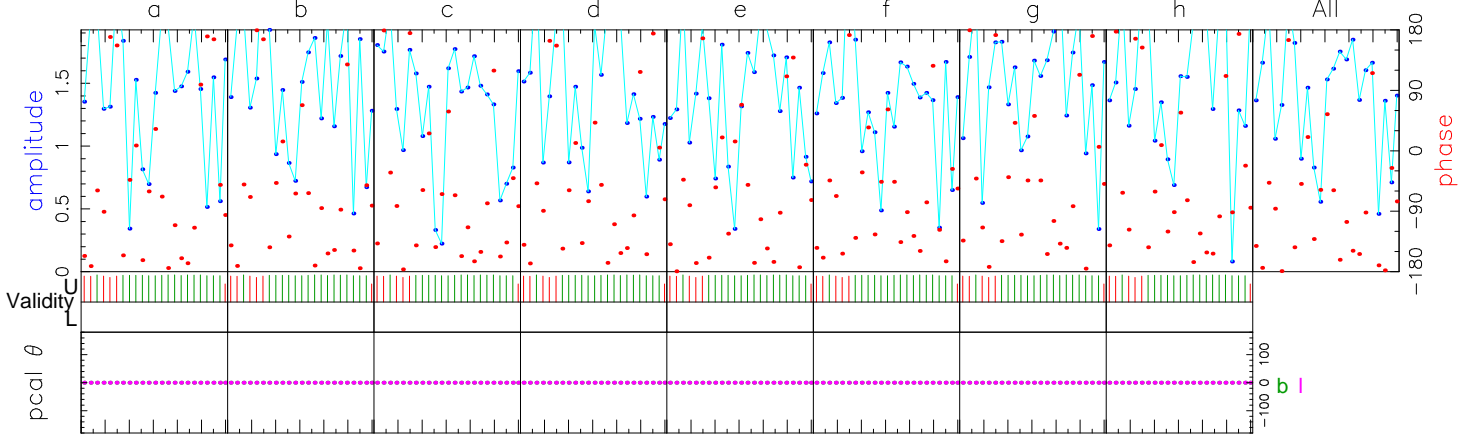
Fringe quality 7

SNR 32.7
Int time 346.292
Amp 0.642
Phase -130.2
PFD 0.0e+00
Delays (us)
SBD 0.001825
MBD 0.001357
Fringe rate (Hz)
-0.003752
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122445
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

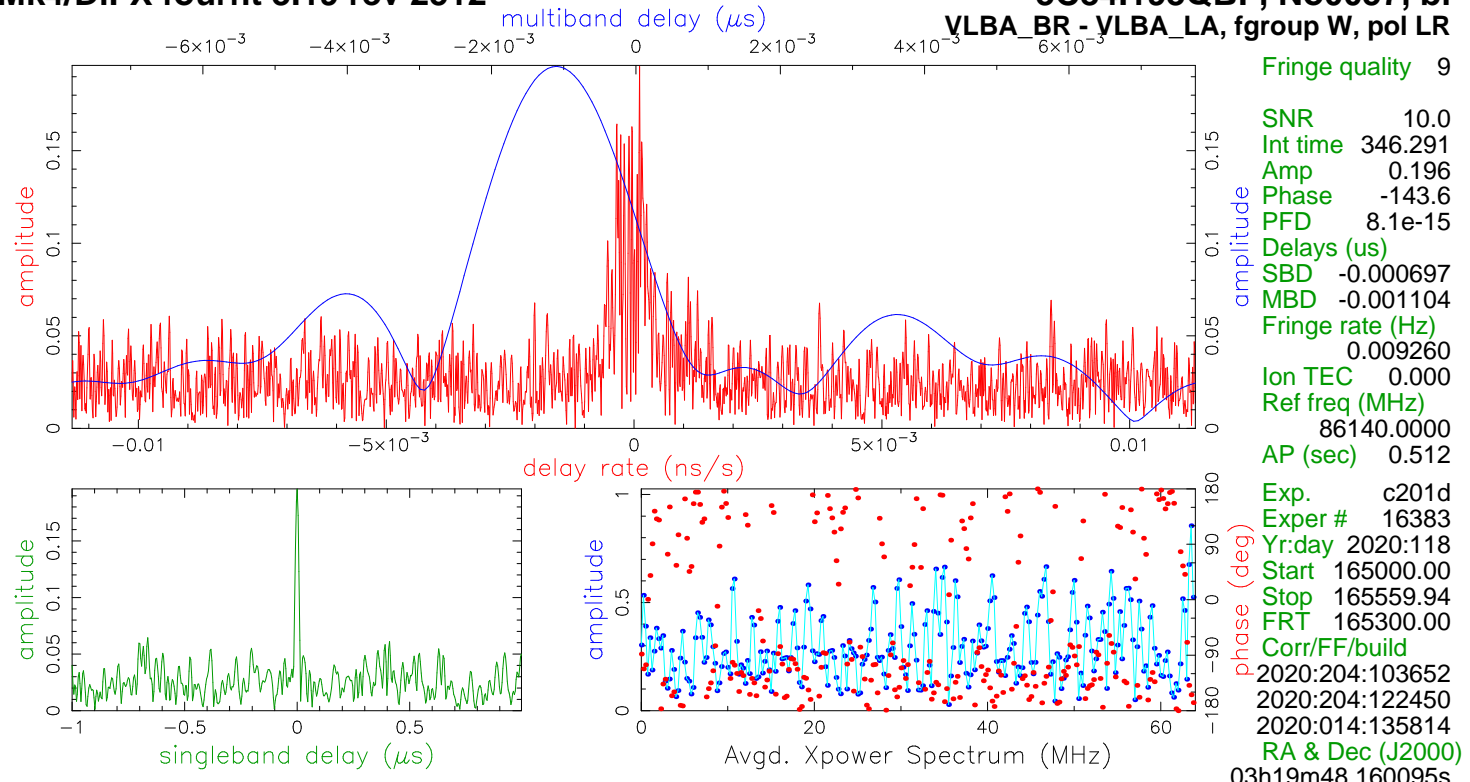


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.5	-134.0	-122.7	-129.2	-133.7	-118.4	-125.2	-134.6	Phase	-130.2
	0.7	0.7	0.6	0.6	0.5	0.7	0.6	0.7	Ampl.	0.6
	257.5	257.6	257.4	257.3	257.3	257.4	257.2	257.8	Sbd box	257.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.31220735649E+03		Apriori delay (usec)		-1.31220871384E+03		Resid mbdelay (usec)		1.35735E-03	+/- 3.3E-05
Sband delay (usec)	-1.31220688859E+03		Apriori clock (usec)		2.3158147E+00		Resid sbdelay (usec)		1.82525E-03	+/- 2.6E-04
Phase delay (usec)	-1.31220871804E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-4.19778E-06	+/- 1.1E-07
Delay rate (us/s)	-1.52338440707E-02		Apriori rate (us/s)		-1.52338005192E-02		Resid rate (us/s)		-4.35515E-08	+/- 5.4E-10
Total phase (deg)	-349.9		Apriori accel (us/s/s)		1.89702344882E-05		Resid phase (deg)		-130.2	+/- 3.5

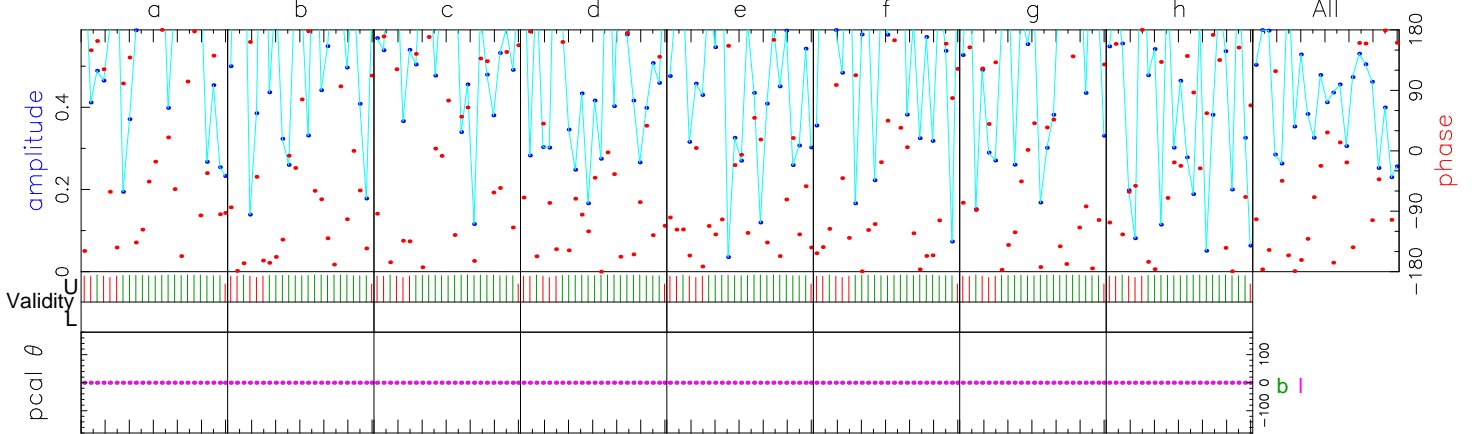
	RMS	Theor.	Amplitude	0.642 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	73.4	8.4	Search (2048X32)	0.624	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	138.4	14.7	Interp.	0.000	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	8.1	5.0	Inc. seg. avg.	1.390	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	10.4	8.7	Inc. frq. avg.	0.628	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 138.100 2381.598 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bl..193QBF Output file: /Exps/c201d/v1/1234/No0057/bl.W.24.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

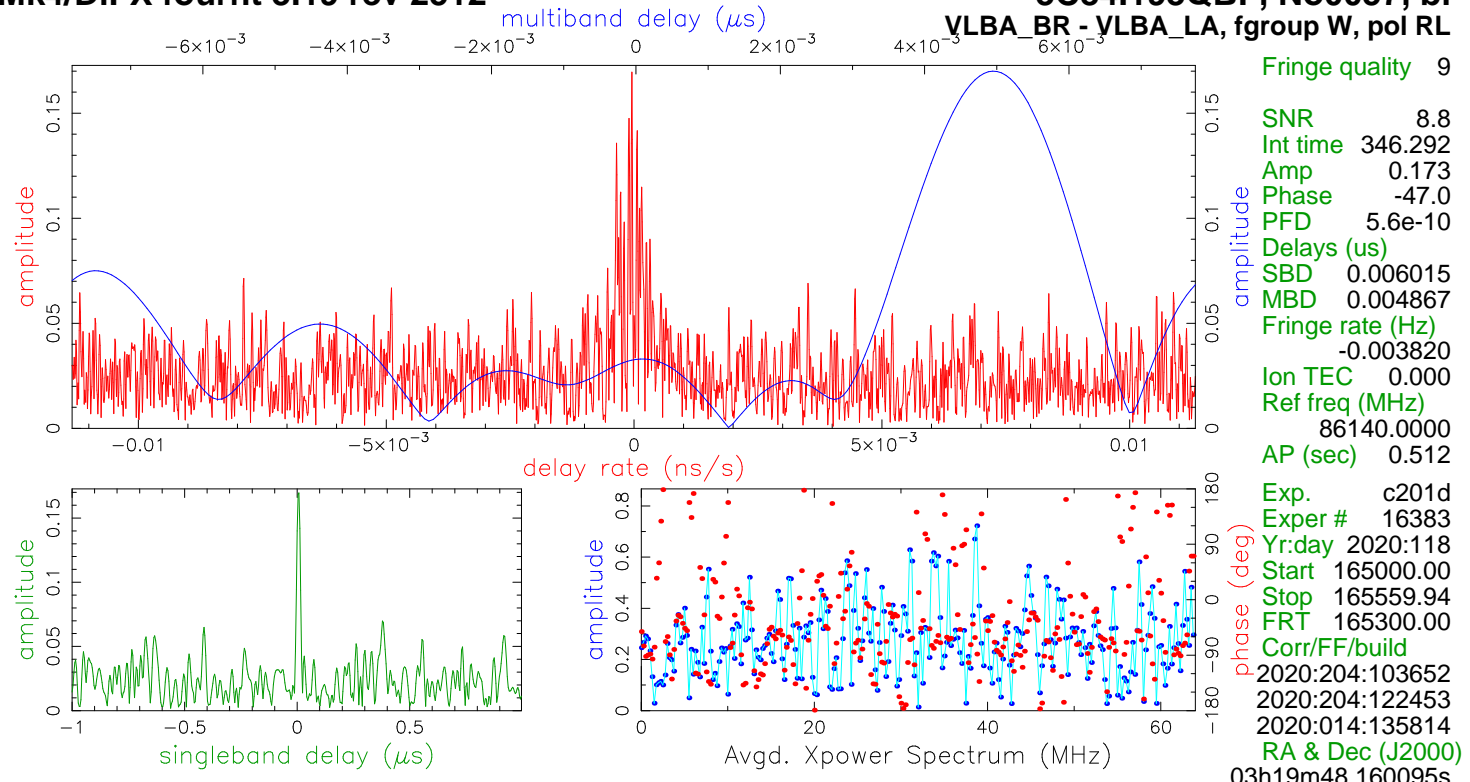


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Phase	-148.6	-137.0	175.3	-126.0	-109.5	-146.9	-154.4	-157.4		-143.6
Ampl.	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2		0.2
Sbd box	256.2	87.9	256.3	257.5	256.7	170.0	96.0	8.7		256.8
APs used	U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
PC freqs	b 1000	1000	1000	1000	1000	1000	1000	1000		
PC phase	l 1000	1000	1000	1000	1000	1000	1000	1000		
Mani PC	b:l 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
PC amp	b:l 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Chan ids	b 1000	1000	1000	1000	1000	1000	1000	1000		
Tracks	l 1000	1000	1000	1000	1000	1000	1000	1000		
Chan ids	b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Tracks	l W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-1.31220981769E+03		Apriori delay (usec)	-1.31220871384E+03		Resid mbdelay (usec)	-1.10385E-03		+/- 1.1E-04
Sband delay (usec)		-1.31220941084E+03		Apriori clock (usec)	2.3158147E+00		Resid sbdelay (usec)	-6.97000E-04		+/- 8.6E-04
Phase delay (usec)		-1.31220871847E+03		Apriori clockrate (us/s)	1.0899999E-07		Resid phdelay (usec)	-4.63172E-06		+/- 3.7E-07
Delay rate (us/s)		-1.52336930246E-02		Apriori rate (us/s)	-1.52338005192E-02		Resid rate (us/s)	1.07495E-07		+/- 1.8E-09
Total phase (deg)			-3.4	Apriori accel (us/s/s)	1.89702344882E-05		Resid phase (deg)	-143.6		+/- 11.5

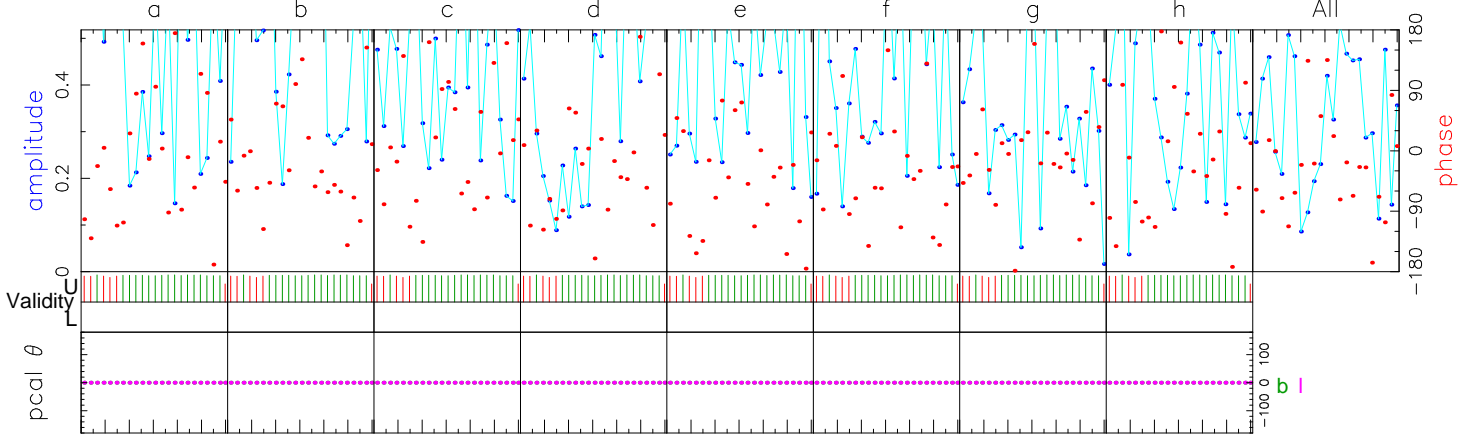
ph/seg (deg) 78.0 27.5 Search (2048X32) 0.188 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 133.6 48.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.3 16.2 Inc. seg. avg. 0.382 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 15.7 28.3 Inc. frq. avg. 0.202 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 75.0 el 47.2 pa -59.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 138.100 2381.598 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bl..193QBF Output file: /Exps/c201d/v1/1234/No0057/bl.W.45.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bl
VLBA_BR - VLBA_LA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
Phase	-69.8	-32.8	-39.2	-43.7	-63.1	-65.0	-6.9	-60.2		-47.0
Ampl.	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.1		0.2
Sbd box	258.4	259.0	356.4	489.4	259.5	258.6	258.0	396.0		258.5
APs used	U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
PC freqs	b 1000	1000	1000	1000	1000	1000	1000	1000		
PC phase	l 1000	1000	1000	1000	1000	1000	1000	1000		
Mani PC	b:l 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
PC amp	b:l 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Chan ids	b 1000	1000	1000	1000	1000	1000	1000	1000		
Tracks	l 1000	1000	1000	1000	1000	1000	1000	1000		
Chan ids	b W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Tracks	l W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-1.31220384668E+03		Apriori delay (usec)		-1.31220871384E+03		Resid mbdelay (usec)	4.86716E-03	+/- 1.2E-04
Sband delay (usec)		-1.31220269909E+03		Apriori clock (usec)		2.3158147E+00		Resid sbdelay (usec)	6.01475E-03	+/- 9.8E-04
Phase delay (usec)		-1.31220871536E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)	-1.51599E-06	+/- 4.2E-07
Delay rate (us/s)		-1.52338448685E-02		Apriori rate (us/s)		-1.52338005192E-02		Resid rate (us/s)	-4.43493E-08	+/- 2.0E-09
Total phase (deg)			-266.7	Apriori accel (us/s/s)		1.89702344882E-05		Resid phase (deg)	-47.0	+/- 13.0

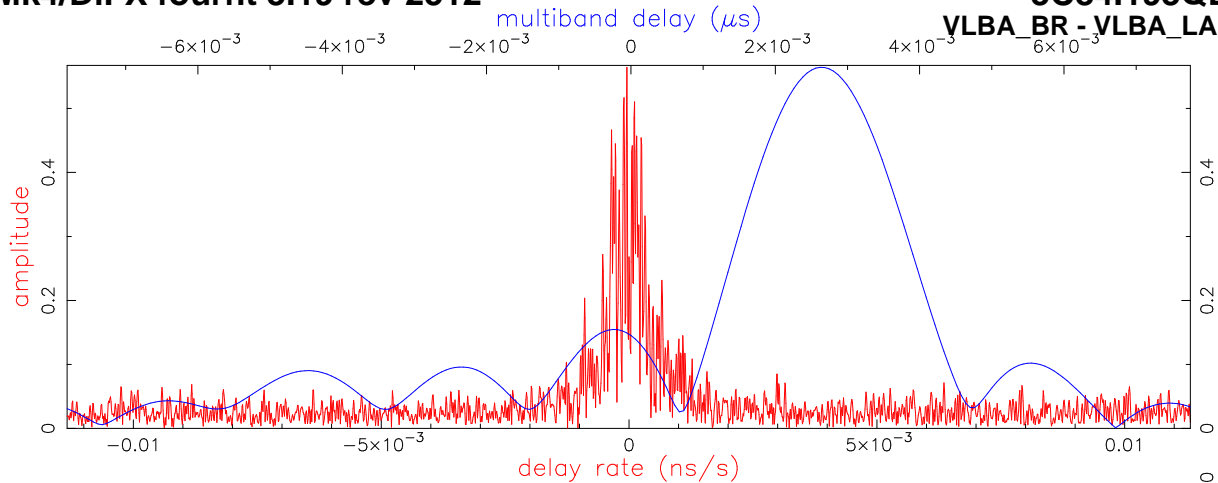
	RMS	Theor.	Amplitude	0.173 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	76.7	31.3	Search (2048X32)	0.169	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	120.2	54.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	23.0	18.4	Inc. seg. avg.	0.286	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	29.3	32.2	Inc. frq. avg.	0.172	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 138.100 2381.598 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bl..193QBF Output file: /Exps/c201d/v1/1234/No0057/bl.W.65.193QBF

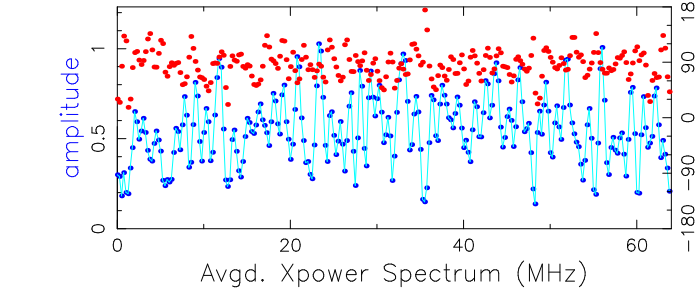
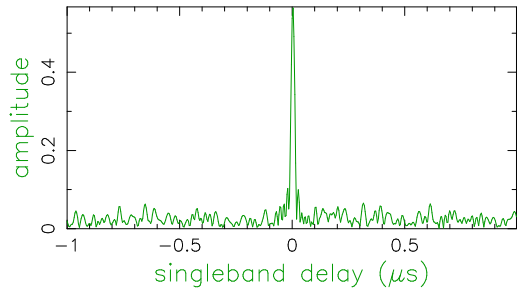
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bl
VLBA_BR - VLBA_LA, fgroup W, pol LL



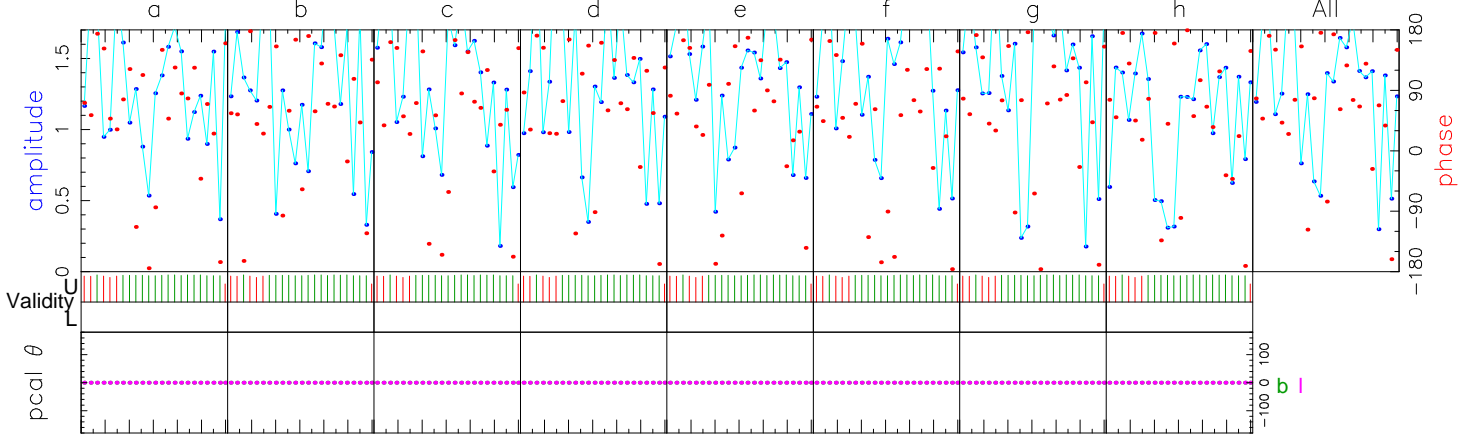
Fringe quality 7

SNR 28.9
Int time 346.291
Amp 0.567
Phase 88.9
PFD 0.0e+00
Delays (us)
SBD 0.002979
MBD 0.002623
Fringe rate (Hz)
-0.003749
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122441
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

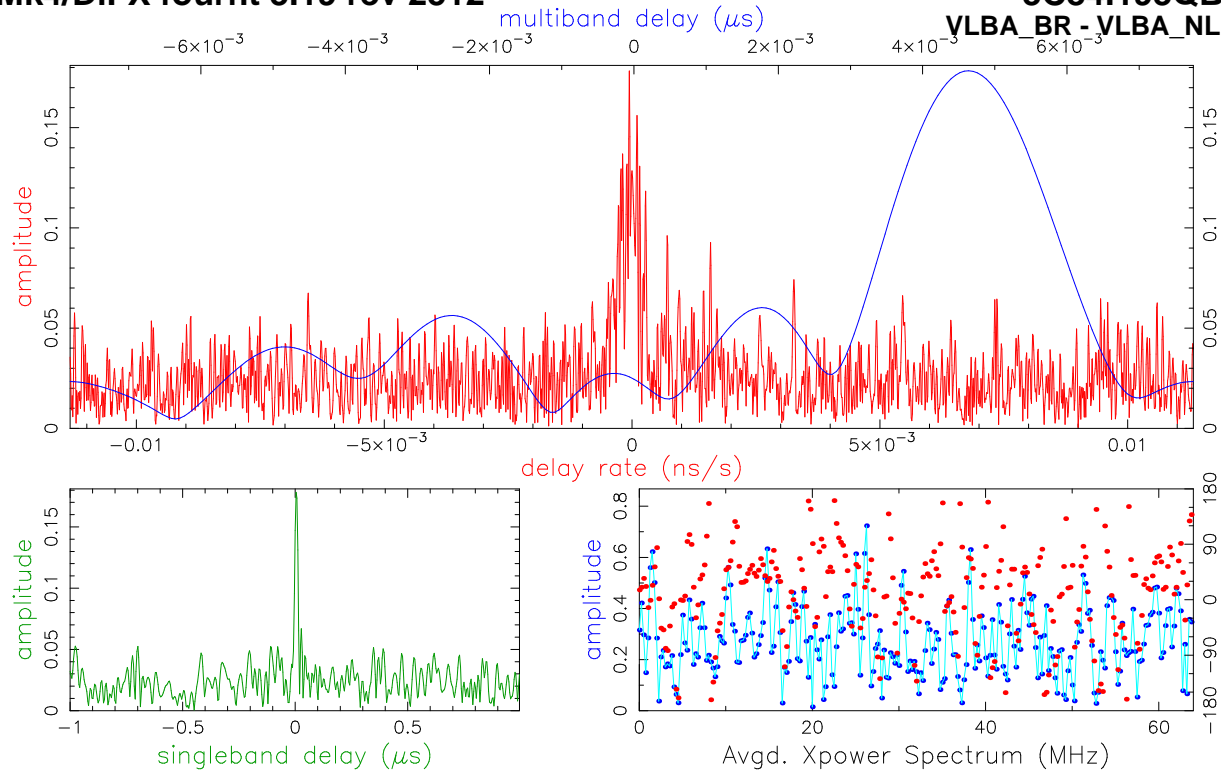


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	-1.31220609055E+03	Apriori delay (usec)	-1.31220871384E+03	Resid mbdelay (usec)	2.62329E-03	+/-	3.8E-05
Sband delay (usec)	-1.31220573434E+03	Apriori clock (usec)	2.3158147E+00	Resid sbdelay (usec)	2.97950E-03	+/-	3.0E-04
Phase delay (usec)	-1.31220871097E+03	Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	2.86809E-06	+/-	1.3E-07
Delay rate (us/s)	-1.52338440431E-02	Apriori rate (us/s)	-1.52338005192E-02	Resid rate (us/s)	-4.35239E-08	+/-	6.2E-10
Total phase (deg)	-130.8	Apriori accel (us/s/s)	1.89702344882E-05	Resid phase (deg)	88.9	+/-	4.0

ph/seg (deg)	74.2	RMS	74.2	Theor.	9.5	Amplitude	0.567 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	148.7	Search (2048X32)	0.554	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	9.6	Inc. seg. avg.	1.263	Inc. frq. avg.	0.568	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	10.1	Inc. frq. avg.	0.568	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 75.0 el 47.2 pa -59.5		l: az 66.2 el 52.6 pa -83.2		u,v (fr/asec)	138.100 2381.598			ion window (TEC)	0.00	0.00		

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bl..193QBF Output file: /Exps/c201d/v1/1234/No0057/bl.W.8.193QBF simultaneous interpolator

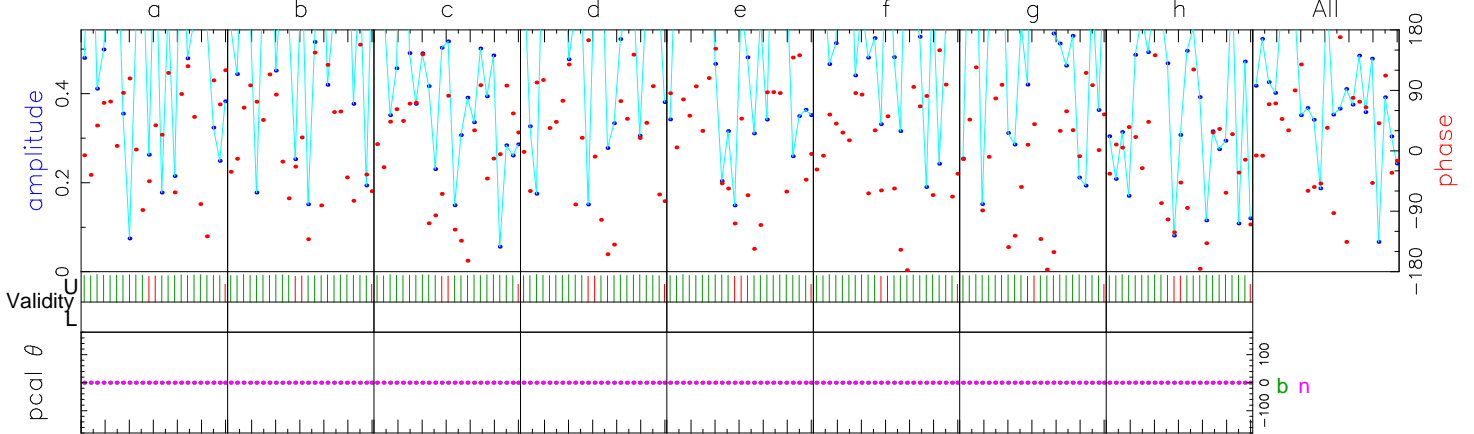


Fringe quality 9

SNR 9.2
Int time 348.662
Amp 0.181
Phase 35.6
PFD 9.1×10^{-12}
Delays (us)
SBD 0.005391
MBD 0.004675
Fringe rate (Hz) -0.004988
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122442
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

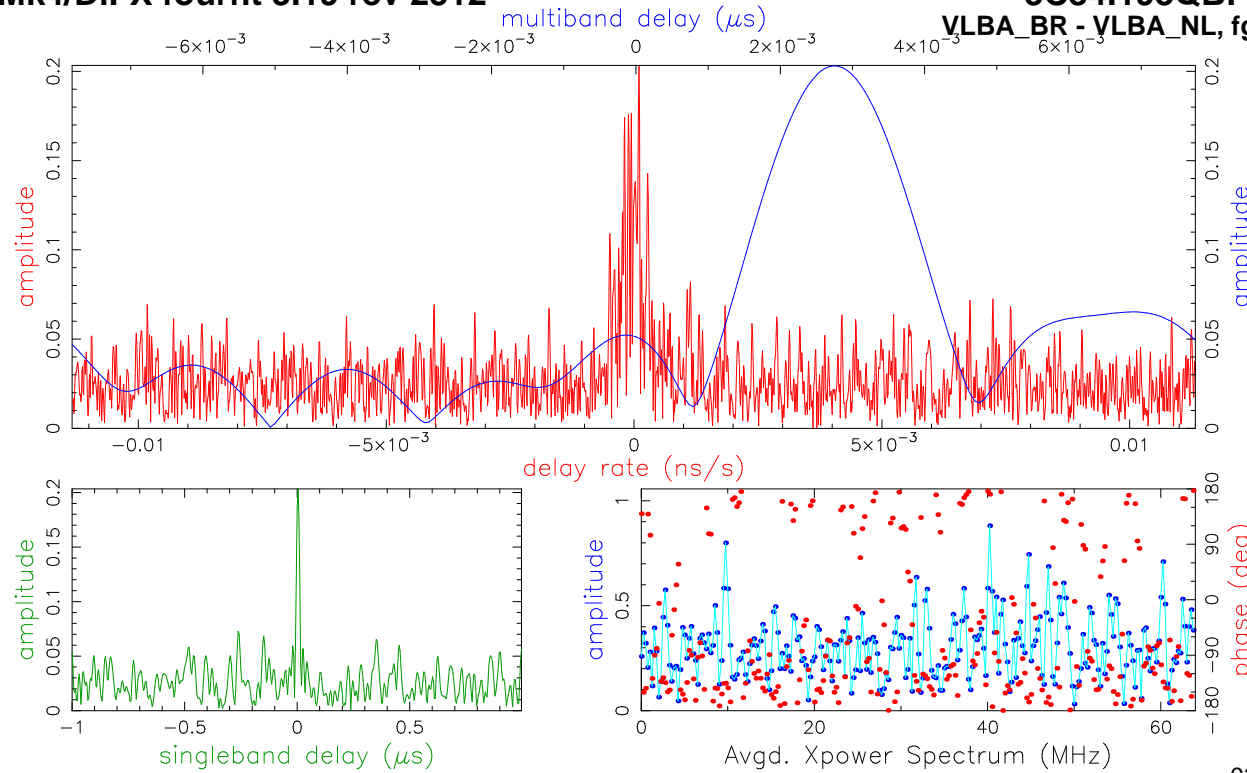


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-3.72806842689E+03				-3.72807310157E+03			Resid mbdelay (usec)	4.67467E-03 +/- 1.2E-04
Sband delay (usec)		-3.72806771107E+03				-3.3739948E+01			Resid sbdelay (usec)	5.39050E-03 +/- 9.3E-04
Phase delay (usec)		-3.72807310042E+03				-3.7599999E-07			Resid phdelay (usec)	1.14931E-06 +/- 4.0E-07
Delay rate (us/s)		2.10576647266E-01				2.10576705169E-01			Resid rate (us/s)	-5.79026E-08 +/- 1.9E-09
Total phase (deg)			-313.1			2.55301348569E-05			Resid phase (deg)	35.6 +/- 12.4

ph/seg (deg) 75.2 29.7 Amplitude 0.181 +/- 0.020 PCAL mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 143.7 51.9 Search (2048X32) 0.173 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.5 17.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.2 30.6 Inc. seg. avg. 0.358 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.183 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

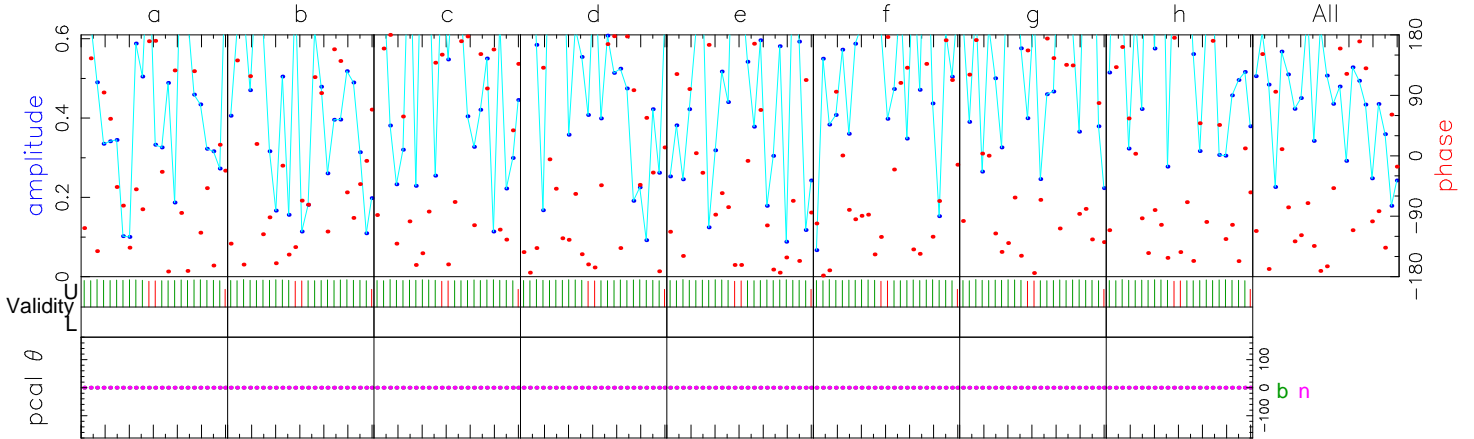
b: az 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.10.193QBF



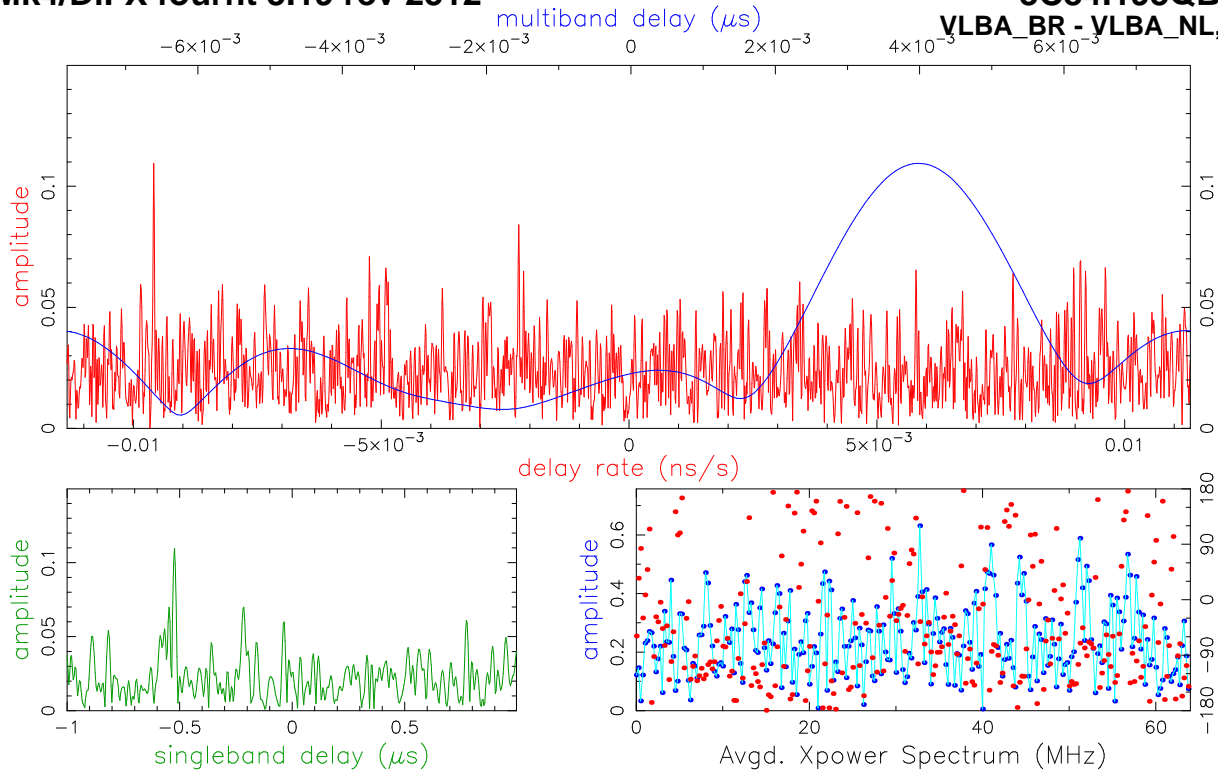
Fringe quality 9
SNR 10.4
Int time 348.662
Amp 0.203
Phase -137.4
PFD 1.3e-16
Delays (us)
SBD 0.003479
MBD 0.002736
Fringe rate (Hz) 0.008650
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122447
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



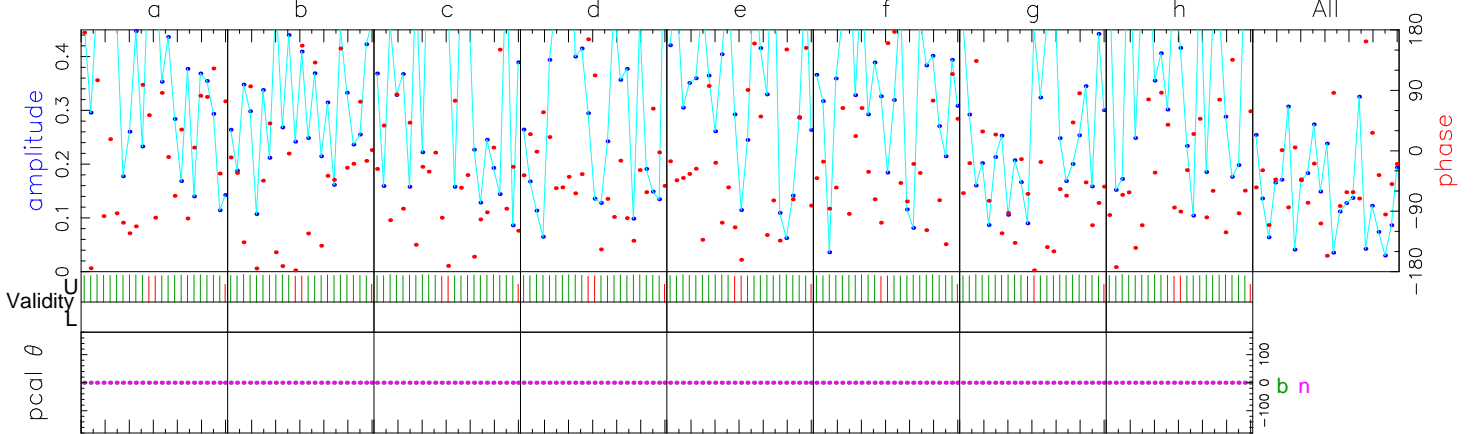
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-128.4	-145.4	-149.3	-129.2	-124.0	-149.9	-137.8	-132.0	Phase	-137.4
	0.1	0.1	0.3	0.3	0.1	0.2	0.3	0.3	Ampl.	0.2
	426.8	94.6	257.8	257.8	253.2	258.6	258.0	257.3	Sbd box	257.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	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	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.72807036606E+03		Apriori delay (usec)		-3.72807310157E+03		Resid mbdelay (usec)		2.73550E-03	+/- 1.0E-04
Sband delay (usec)	-3.72806962307E+03		Apriori clock (usec)		-3.3739948E+01		Resid sbdelay (usec)		3.47850E-03	+/- 8.3E-04
Phase delay (usec)	-3.72807310600E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-4.43191E-06	+/- 3.6E-07
Delay rate (us/s)	2.10576805588E-01		Apriori rate (us/s)		2.10576705169E-01		Resid rate (us/s)		1.00419E-07	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.55301348569E-05		Resid phase (deg)		-137.4	+/- 11.0

ph/seg (deg) 75.5 26.5 Search (2048X32) 0.203 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 132.6 46.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.9 15.6 Inc. seg. avg. 0.398 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.6 27.2 Inc. frq. avg. 0.198 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 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.32.193QBF



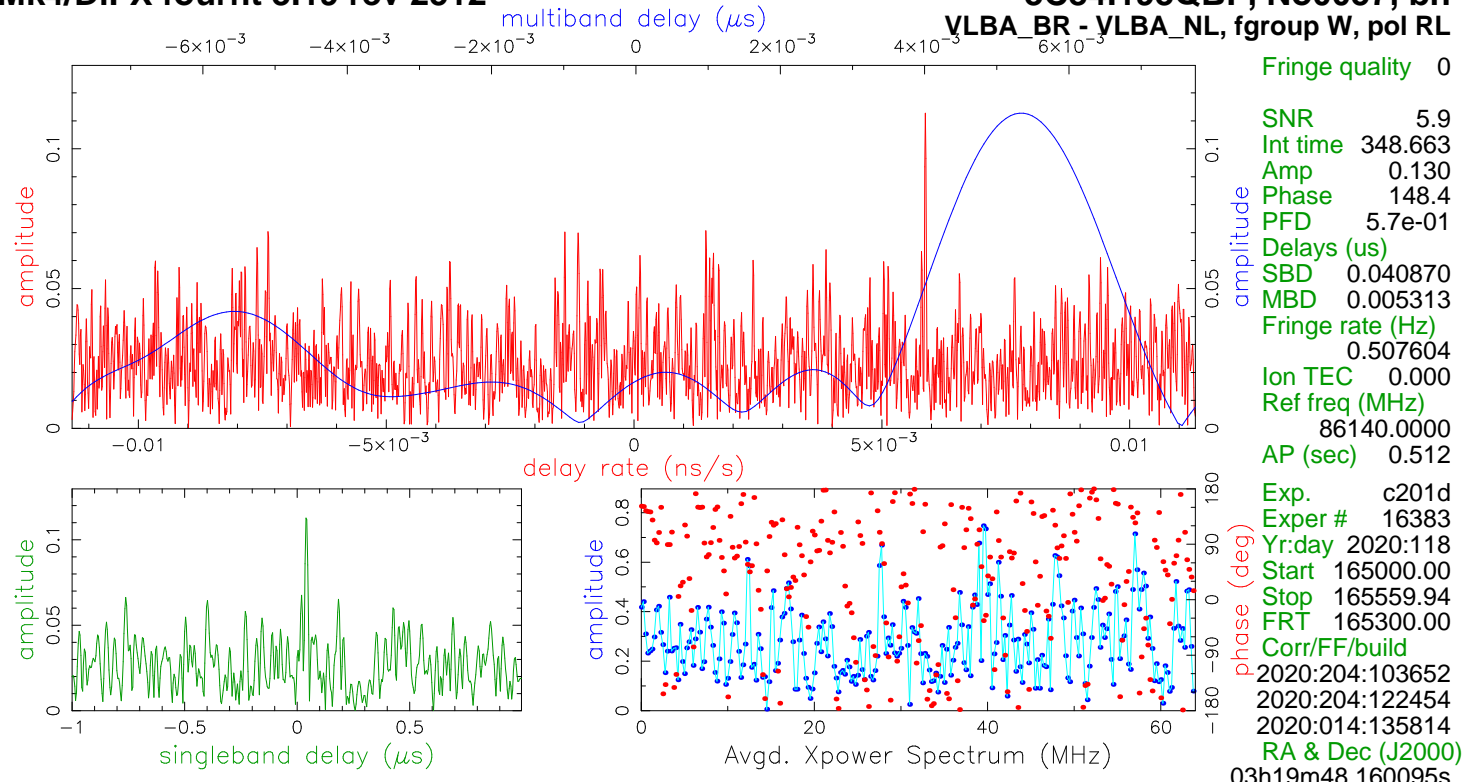
Fringe quality 0
SNR 5.6
Int time 348.662
Amp 0.150
Phase -57.6
PFD 1.0e+00
Delays (us)
SBD -0.523332
MBD 0.003992
Fringe rate (Hz)
-0.826787
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122451
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

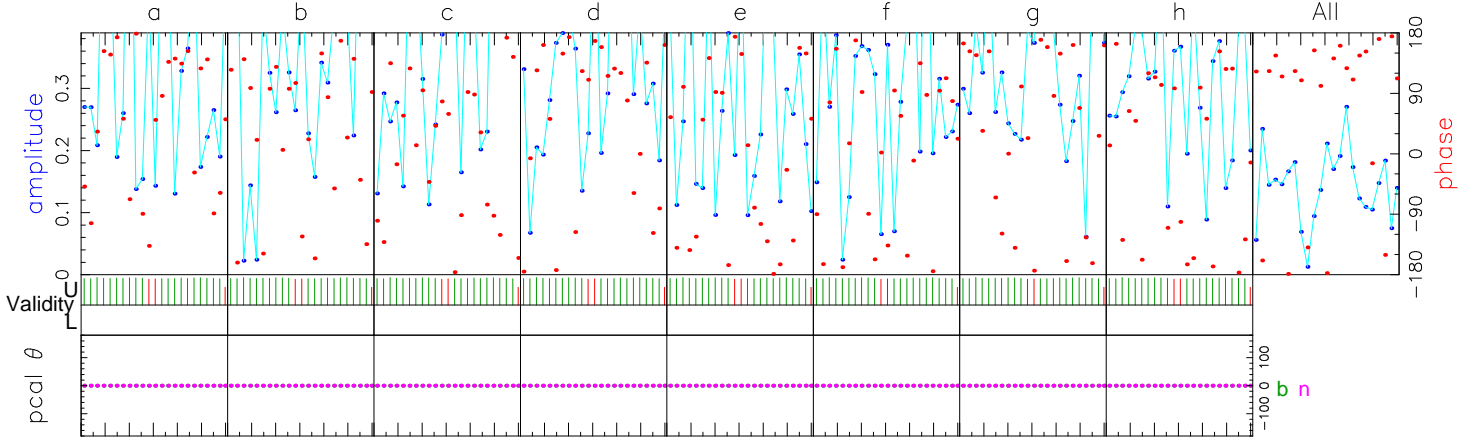


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-30.5	-66.0	-68.2	-46.8	-70.1	-39.3	-80.3	-49.7	Phase	-57.6
	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.1
	9.1	209.4	248.4	122.6	426.7	251.4	211.5	406.5	Sbd box	123.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	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	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.72860035941E+03		Apriori delay (usec)		-3.72807310157E+03		Resid mbdelay (usec)		3.99215E-03	+/- 1.9E-04
Sband delay (usec)	-3.72859643382E+03		Apriori clock (usec)		-3.3739948E+01		Resid sbdelay (usec)		-5.23332E-01	+/- 1.5E-03
Phase delay (usec)	-3.72807310342E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-1.85672E-06	+/- 6.6E-07
Delay rate (us/s)	2.10567106988E-01		Apriori rate (us/s)		2.10576705169E-01		Resid rate (us/s)		-9.59818E-06	+/- 3.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.55301348569E-05		Resid phase (deg)		-57.6	+/- 20.5

ph/seg (deg) 58.4 49.2 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.6 85.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.7 29.0 Inc. seg. avg. 0.149 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.7 50.6 Inc. frq. avg. 0.137 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 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.51.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

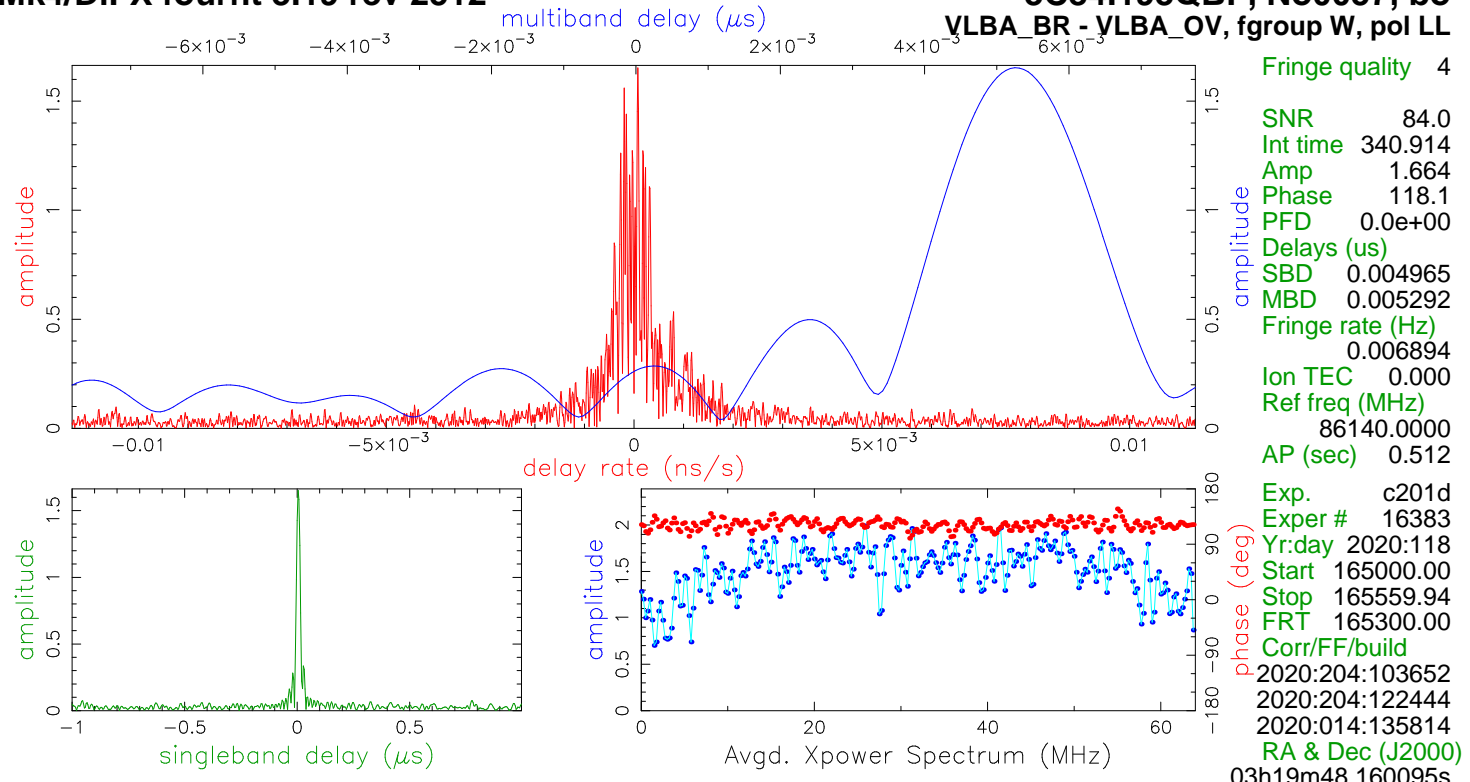


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
155.5	145.0	128.6	143.9	176.9	129.9	147.4	151.7	151.7	Phase	148.4
0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
449.9	135.7	365.1	266.8	24.0	238.8	151.2	258.4	258.4	Sbd box	267.5
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
n W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.72803653864E+03		Apriori delay (usec)	-3.72807310157E+03		Resid mbdelay (usec)	5.31292E-03	+/-	1.8E-04	
Sband delay (usec)	-3.72803223182E+03		Apriori clock (usec)	-3.3739948E+01		Resid sbdelay (usec)	4.08698E-02	+/-	1.5E-03	
Phase delay (usec)	-3.72807309678E+03		Apriori clockrate (us/s)	-3.7599999E-07		Resid phdelay (usec)	4.78618E-06	+/-	6.2E-07	
Delay rate (us/s)	2.10582597944E-01		Apriori rate (us/s)	2.10576705169E-01		Resid rate (us/s)	5.89278E-06	+/-	3.0E-09	
Total phase (deg)		-200.4	Apriori accel (us/s/s)	2.55301348569E-05		Resid phase (deg)	148.4	+/-	19.4	

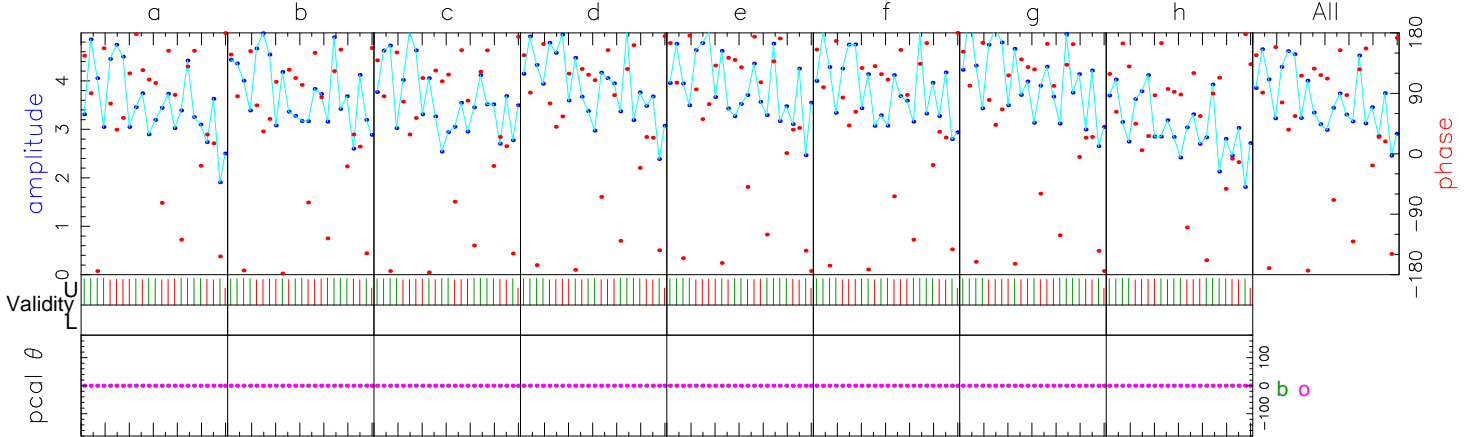
	RMS	Theor.	Amplitude	0.130 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.9	46.4	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	55.5	81.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	16.5	27.4	Inc. seg. avg.	0.121	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	33.5	47.8	Inc. frq. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.70.193QBF

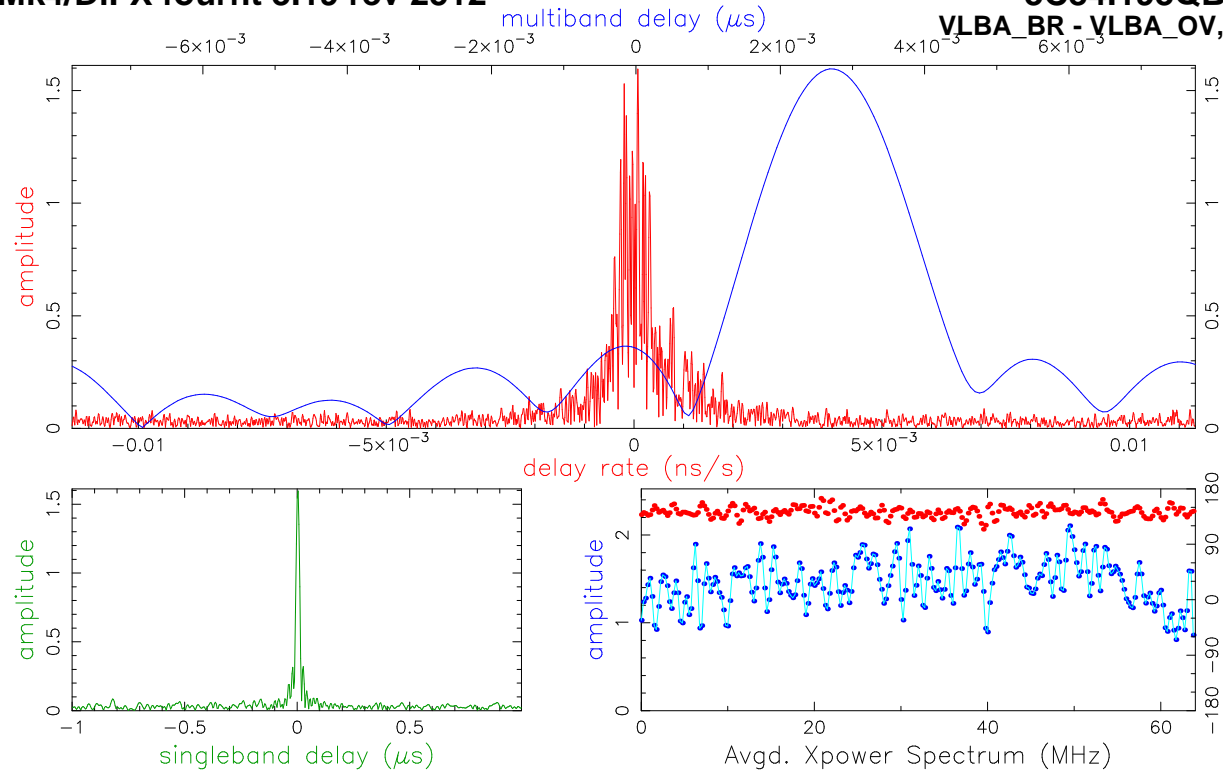


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	115.3	114.1	117.0	119.0	134.3	123.1	126.3	87.7	Phase	118.1
	1.6	1.7	1.6	1.8	1.9	1.7	1.8	1.4	Ampl.	1.7
	258.2	258.3	258.3	258.4	258.2	258.4	258.0	257.8	Sbd box	258.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.69906477776E+02		Apriori delay (usec)		6.69901185877E+02		Resid mbdelay (usec)		5.29190E-03	+/- 1.3E-05
Sband delay (usec)	6.69906150877E+02		Apriori clock (usec)		-2.1524010E+01		Resid sbdelay (usec)		4.96500E-03	+/- 1.0E-04
Phase delay (usec)	6.69901189687E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		3.81000E-06	+/- 4.4E-08
Delay rate (us/s)	-1.18618285470E-01		Apriori rate (us/s)		-1.18618365500E-01		Resid rate (us/s)		8.00302E-08	+/- 2.1E-10
Total phase (deg)	172.7		Apriori accel (us/s/s)		6.77926407495E-06		Resid phase (deg)		118.1	+/- 1.4

	RMS	Theor.	Amplitude	1.664 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	72.3	3.3	Search (2048X32)	1.631	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	122.0	5.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	14.7	1.9	Inc. seg. avg.	3.594	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	8.1	3.4	Inc. frq. avg.	1.689	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
b: az 75.0 el 47.2 pa -59.5	o: az 65.0 el 44.4 pa -74.6		u,v (fr/asec) 914.778 1391.725		ion window (TEC) 0.00 0.00		simultaneous interpolator

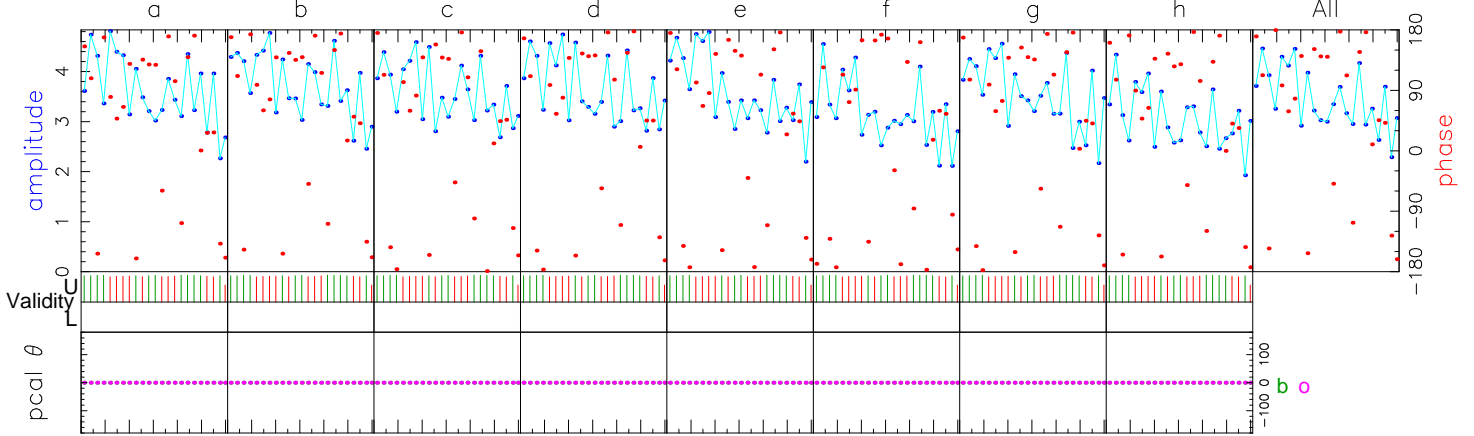


Fringe quality 5

SNR 81.4
Int time 340.916
Amp 1.612
Phase 141.9
PFD 0.0e+00
Delays (us)
SBD 0.002647
MBD 0.002681
Fringe rate (Hz) 0.006881
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

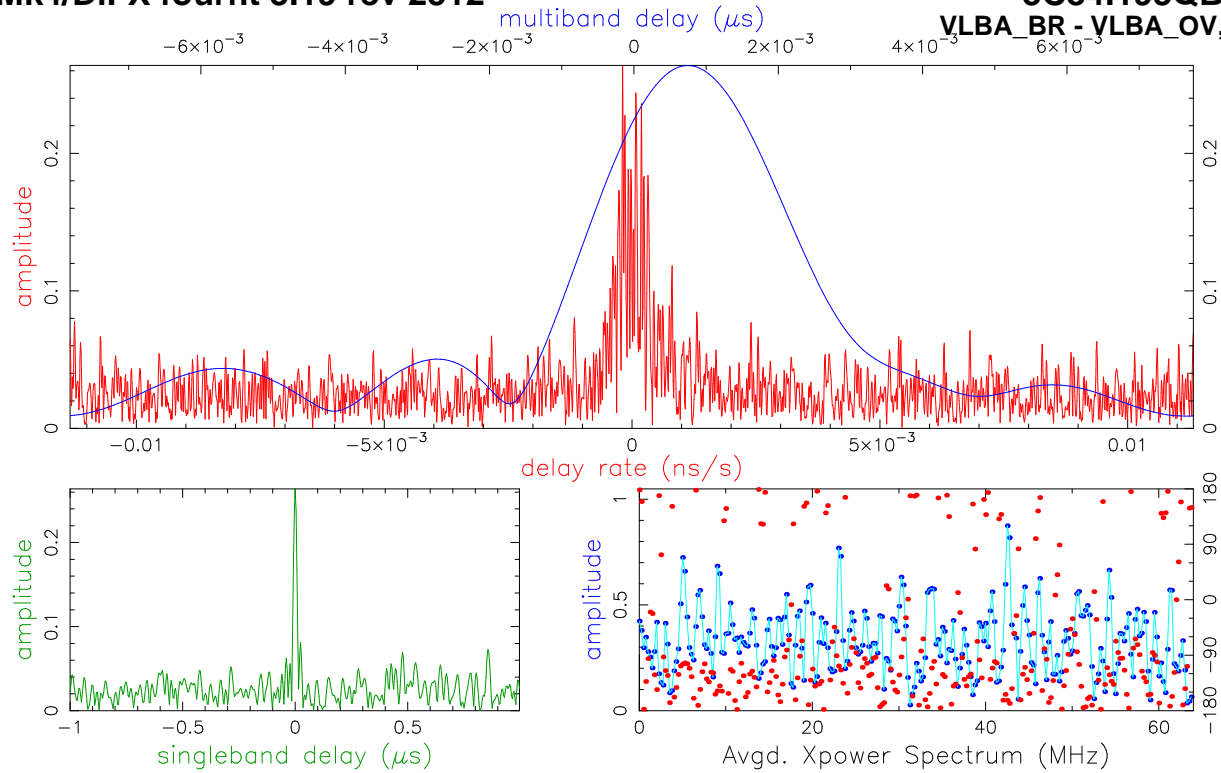
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122447
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



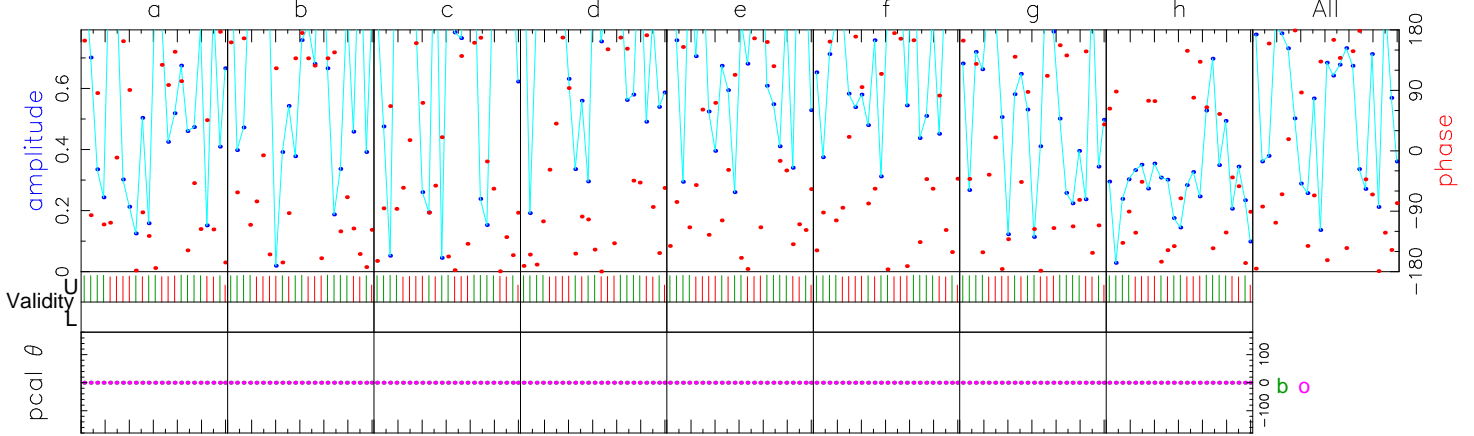
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	129.9	141.1	144.7	143.6	145.4	157.0	142.1	131.4		
Sband delay (usec)	1.6	1.8	1.6	1.7	1.8	1.4	1.6	1.4		
Phase delay (usec)	257.7	257.8	257.6	257.6	257.9	257.5	257.6	257.7		
Delay rate (us/s)										
Total phase (deg)			196.5							
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)										

ph/seg (deg) 71.8 3.4 Search (2048X32) 1.551 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 120.6 5.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 9.2 2.0 Inc. seg. avg. 3.458 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 8.7 3.5 Inc. frq. avg. 1.609 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 75.0 el 47.2 pa -59.5 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 914.778 1391.725 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bo..193QBF Output file: /Exps/c201d/v1/1234/No0057/bo.W.36.193QBF simultaneous interpolator



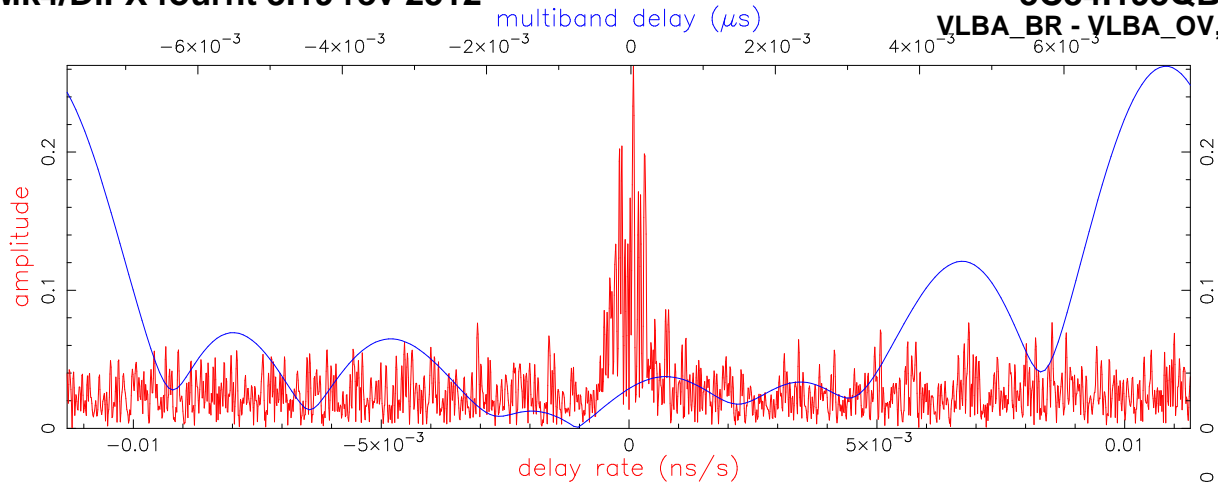
Fringe quality 9
SNR 13.3
Int time 340.915
Amp 0.264
Phase -143.2
PFD 9.4e-32
Delays (us)
SBD -0.000147
MBD 0.000741
Fringe rate (Hz)
-0.016673
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122452
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

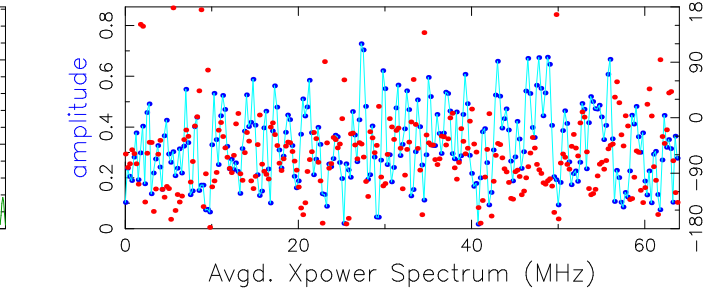
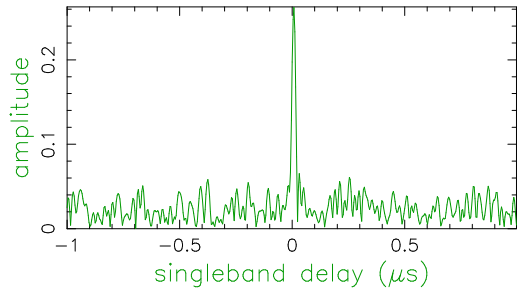


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	6.69901926454E+02				6.69901185877E+02				7.40577E-04	+/- 8.1E-05
Sband delay (usec)	6.69901038627E+02				-2.1524010E+01				-1.47250E-04	+/- 6.5E-04
Phase delay (usec)	6.69901181259E+02				-2.4300001E-07				-4.61895E-06	+/- 2.8E-07
Delay rate (us/s)	-1.18618559056E-01				-1.18618365500E-01				-1.93556E-07	+/- 1.3E-09
Total phase (deg)			-88.7		6.77926407495E-06				-143.2	+/- 8.6
	RMS	Theor.	Amplitude	0.264 +/- 0.020	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	69.1	20.6	Search (2048X32)	0.245	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	133.1	36.0	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	18.8	12.2	Inc. seg. avg.	0.506	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	42.6	21.2	Inc. frq. avg.	0.266	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00

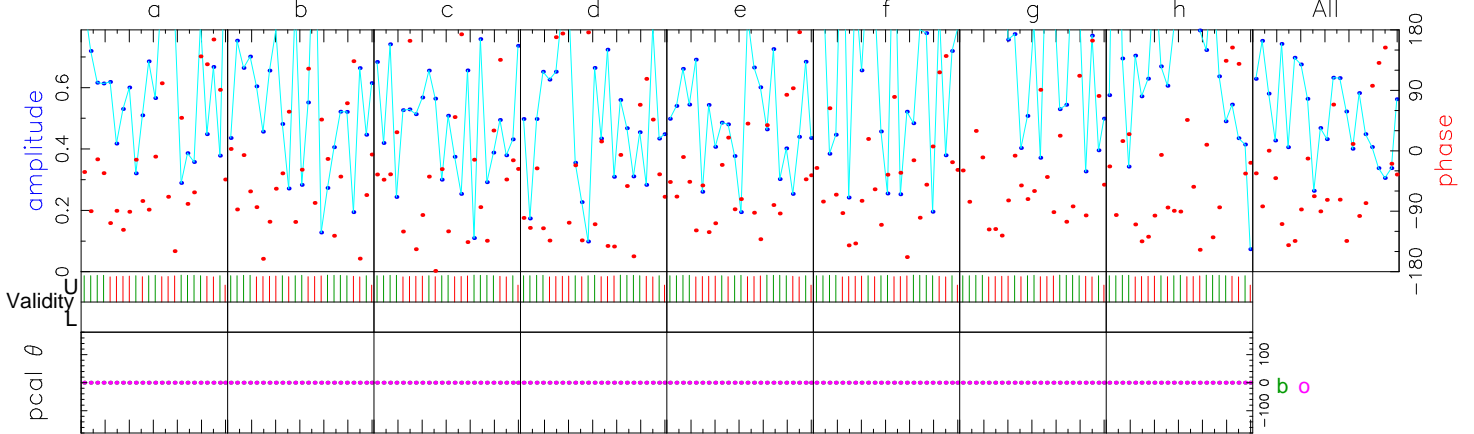
b: az 75.0 el 47.2 pa -59.5 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 914.778 1391.725 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bo..193QBF Output file: /Exps/c201d/v1/1234/No0057/bo.W.56.193QBF



Fringe quality 9
SNR 13.3
Int time 340.915
Amp 0.263
Phase -71.2
PFD 2.0e-31
Delays (us)
SBD 0.007155
MBD 0.007397
Fringe rate (Hz) 0.007371
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122455
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

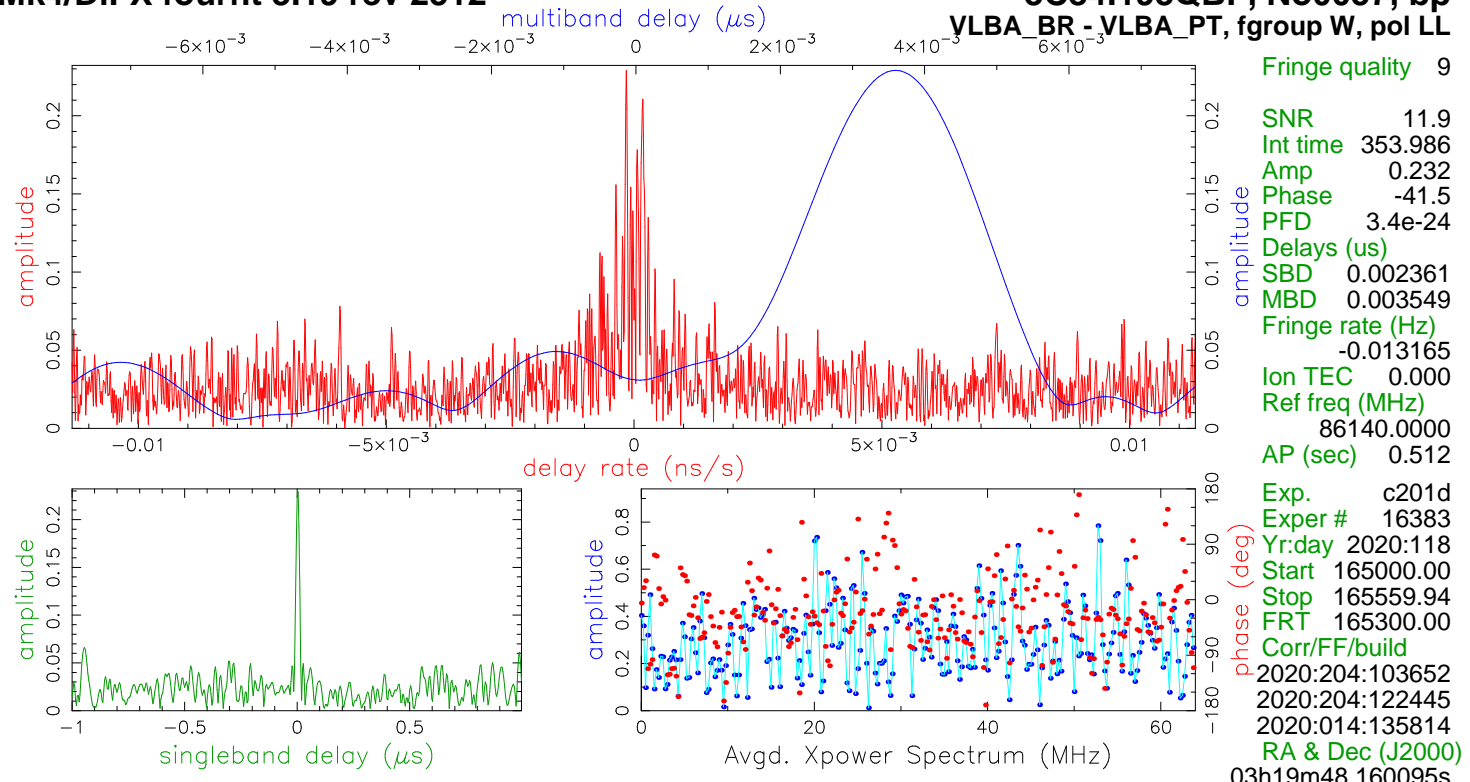


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0				
b	1000	1000	1000	1000	1000	1000	1000	1000				
o	1000	1000	1000	1000	1000	1000	1000	1000				
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
b:0	0:0	0:0	0:0	0:0	0:0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL				
Group delay (usec)(sbd)	6.69908582766E+02		Apriori delay (usec)		6.69901185877E+02		Resid mbdelay (usec)		7.39689E-03	+/- 8.2E-05		
Sband delay (usec)	6.69908341127E+02		Apriori clock (usec)		-2.1524010E+01		Resid sbdelay (usec)		7.15525E-03	+/- 6.5E-04		
Phase delay (usec)	6.69901183581E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-2.29682E-06	+/- 2.8E-07		
Delay rate (us/s)	-1.18618279929E-01		Apriori rate (us/s)		-1.18618365500E-01		Resid rate (us/s)		8.55711E-08	+/- 1.3E-09		
Total phase (deg)			Apriori accel (us/s/s)		6.77926407495E-06		Resid phase (deg)		-71.2	+/- 8.6		
RMS	74.8	20.7	Amplitude		0.263 +/- 0.020		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	74.8	20.7	Search (2048X32)		0.259		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	108.8	36.1	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	17.0	12.2	Inc. seg. avg.		0.481		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011	
amp/frq (%)	26.1	21.3	Inc. frq. avg.		0.263		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

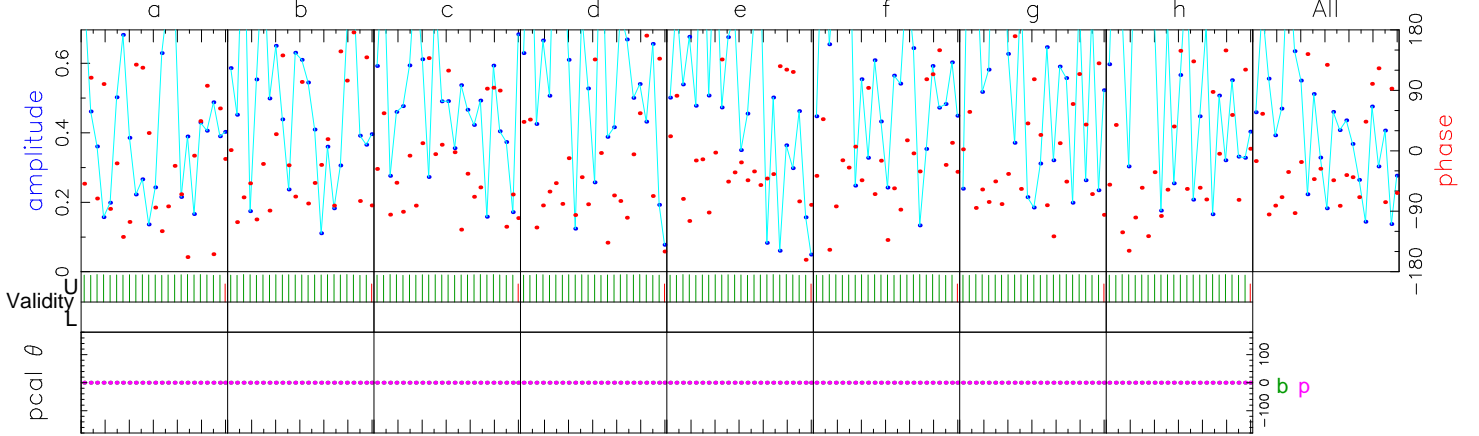
b: az 75.0 el 47.2 pa -59.5 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 914.778 1391.725 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bo..193QBF Output file: /Exps/c201d/v1/1234/No0057/bo.W.72.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bp
VLBA_BR - VLBA_PT, fgroup W, pol LL



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

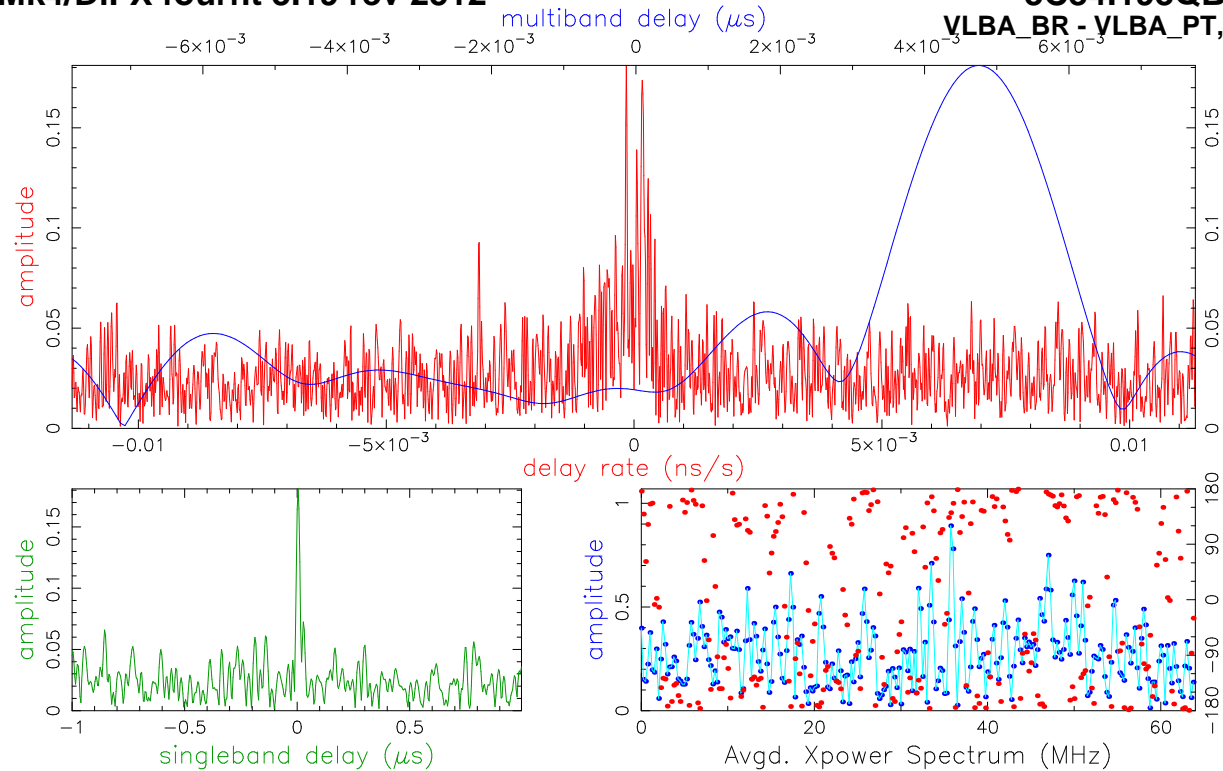


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.7	-58.5	-26.4	-46.5	-30.3	-20.6	-44.0	-59.0	Phase	-41.5
	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	Ampl.	0.2
	507.9	11.0	257.4	257.6	257.5	257.8	258.3	256.8	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.76876422129E+02		Apriori delay (usec)	-8.76879971550E+02	Resid mbdelay (usec)	3.54942E-03	+/-	9.1E-05		
Sband delay (usec)	-8.76877610300E+02		Apriori clock (usec)	-1.8715775E+01	Resid sbdelay (usec)	2.36125E-03	+/-	7.2E-04		
Phase delay (usec)	-8.76879972888E+02		Apriori clockrate (us/s)	-2.4600000E-07	Resid phdelay (usec)	-1.33786E-06	+/-	3.1E-07		
Delay rate (us/s)	-4.87779450349E-02		Apriori rate (us/s)	-4.87777921983E-02	Resid rate (us/s)	-1.52837E-07	+/-	1.5E-09		
Total phase (deg)		-311.2	Apriori accel (us/s/s)	1.81176116712E-05	Resid phase (deg)	-41.5	+/-	9.6		

	RMS	Theor.	Amplitude	0.232 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	82.4	23.0	Search (2048X32)	0.224	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	115.3	40.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	19.2	13.6	Inc. seg. avg.	0.392	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.7	23.7	Inc. frq. avg.	0.231	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

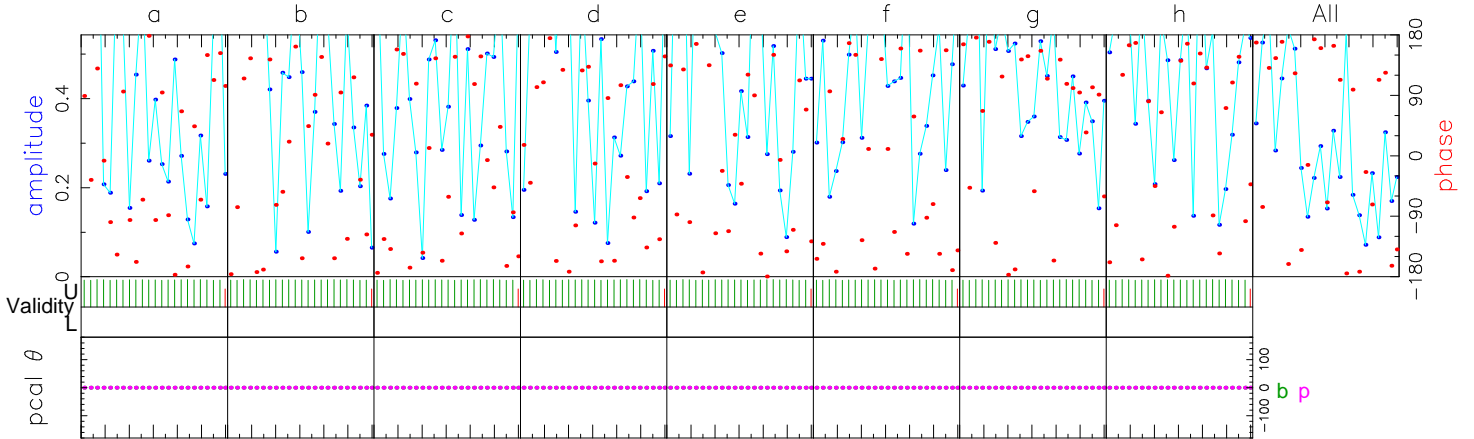
b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.21.193QBF



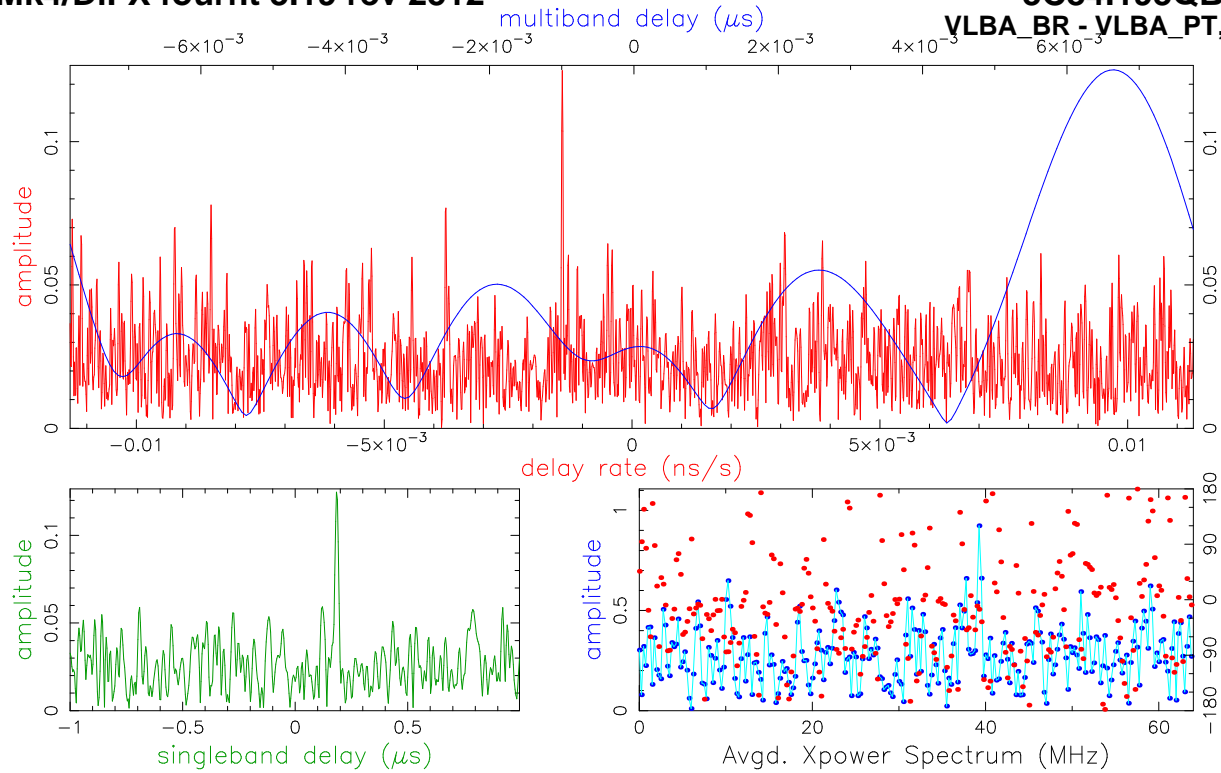
Fringe quality 9
 SNR 9.3
 Int time 353.987
 Amp 0.181
 Phase 170.5
 PFD 4.7e-12
 Delays (us)
 SBD 0.003958
 MBD 0.004753
 Fringe rate (Hz)
 -0.012937
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122449
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-8.76875218254E+02				-8.76879971550E+02				4.75330E-03	+/- 1.2E-04
Sband delay (usec)	-8.76876013800E+02				-1.8715775E+01				3.95775E-03	+/- 9.2E-04
Phase delay (usec)	-8.76879966051E+02				-2.4600000E-07				5.49927E-06	+/- 4.0E-07
Delay rate (us/s)	-4.87779423891E-02				-4.87777921983E-02				-1.50191E-07	+/- 1.9E-09
Total phase (deg)			-99.2		1.81176116712E-05				170.5	+/- 12.3
ph/seg (deg)	74.0	29.5			0.174					
amp/seg (%)	109.3	51.5			0.000					
ph/frq (deg)	13.6	17.4			0.264					
amp/frq (%)	23.1	30.4			0.177					

b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.42.193QBF

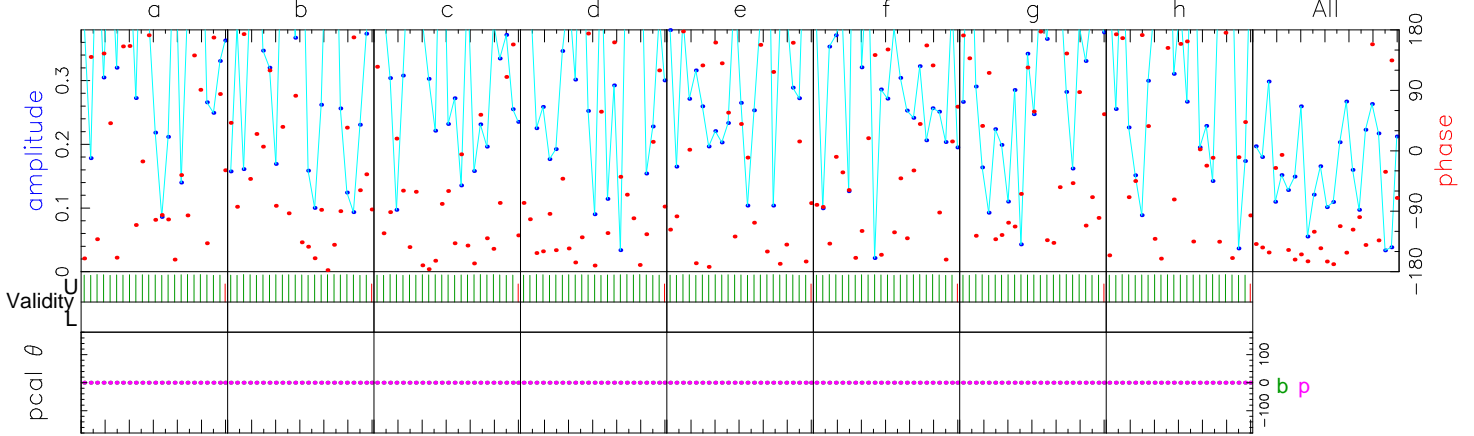


Fringe quality 0

SNR 6.5
Int time 353.986
Amp 0.127
Phase -140.0
PFD 2.7e-02
Delays (us)
SBD 0.184784
MBD 0.006718
Fringe rate (Hz)
-0.121198
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122453
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-178.7	-85.8	-128.8	-125.8	-161.6	-94.6	-148.8	-157.3	Phase	-140.0
	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	Ampl.	0.1
	306.0	278.8	114.0	225.2	27.3	224.6	180.4	301.6	Sbd box	304.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.76701378591E+02		Apriori delay (usec)		-8.76879971550E+02		Resid mbdelay (usec)		6.71796E-03	+/- 1.7E-04
Sband delay (usec)	-8.76695187300E+02		Apriori clock (usec)		-1.8715775E+01		Resid sbdelay (usec)		1.84784E-01	+/- 1.3E-03
Phase delay (usec)	-8.76879976065E+02		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-4.51523E-06	+/- 5.7E-07
Delay rate (us/s)	-4.87791991882E-02		Apriori rate (us/s)		-4.87777921983E-02		Resid rate (us/s)		-1.40699E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.81176116712E-05		Resid phase (deg)		-140.0	+/- 17.7

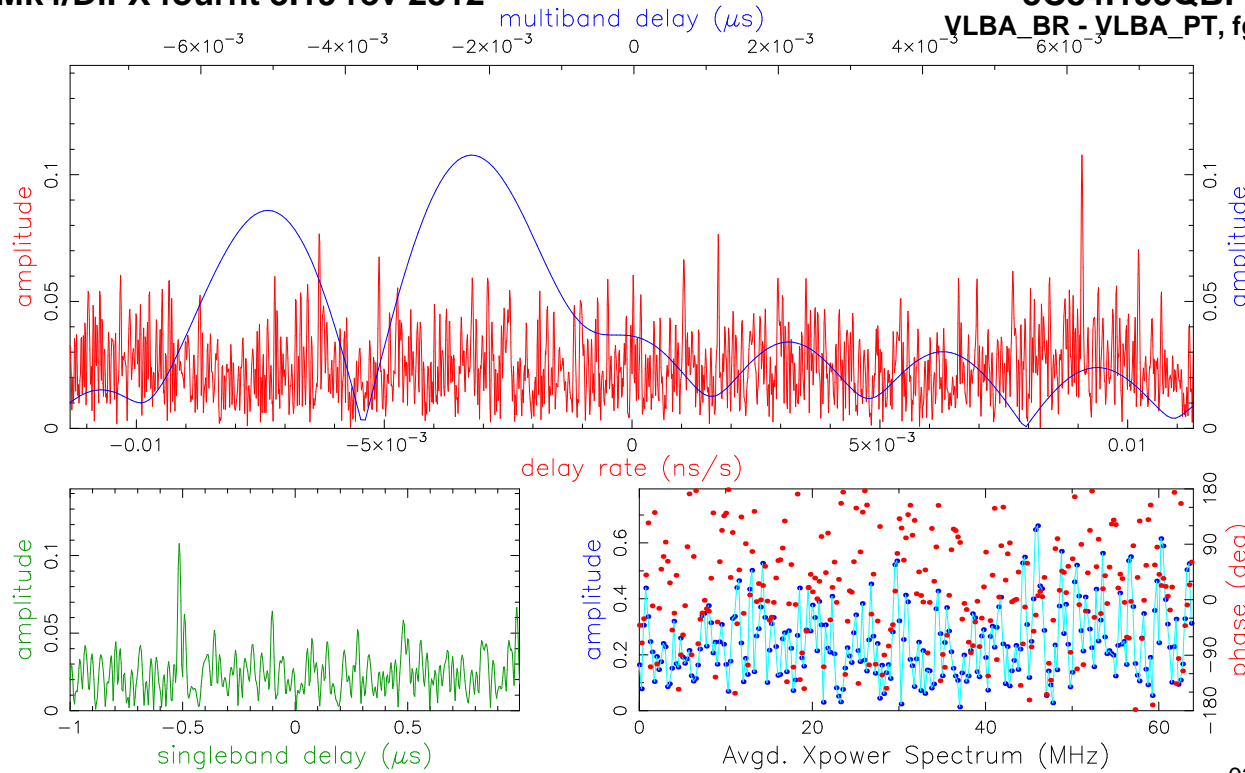
	RMS	Theor.	Amplitude	0.127 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	52.9	42.5	Search (2048X32)	0.124	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.9	74.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	35.7	25.0	Inc. seg. avg.	0.128	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	31.6	43.7	Inc. frq. avg.	0.129	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.61.193QBF

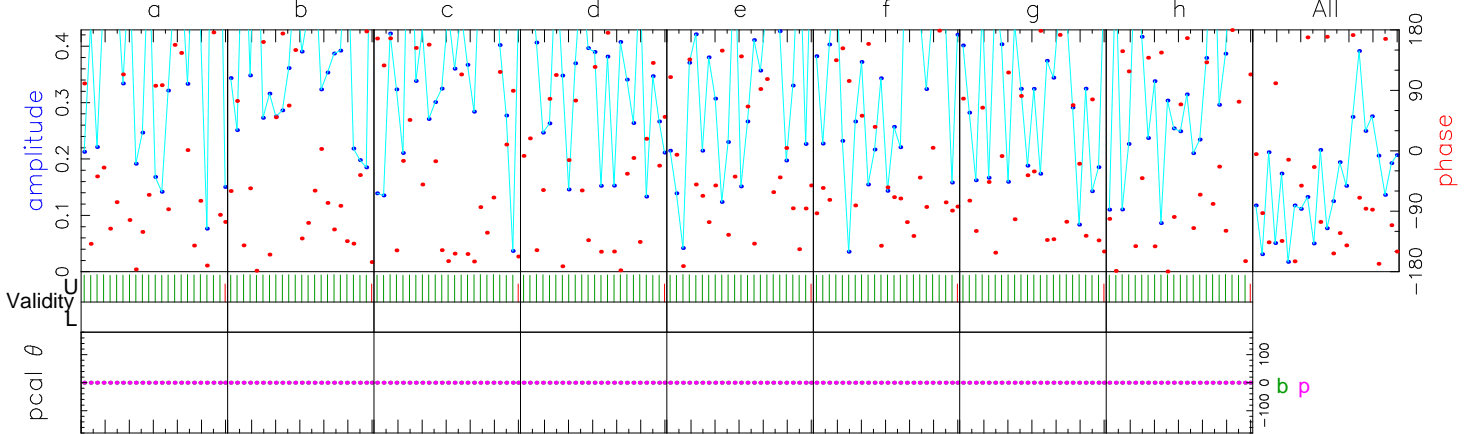
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bp
VLBA_BR - VLBA_PT, fgroup W, pol RL



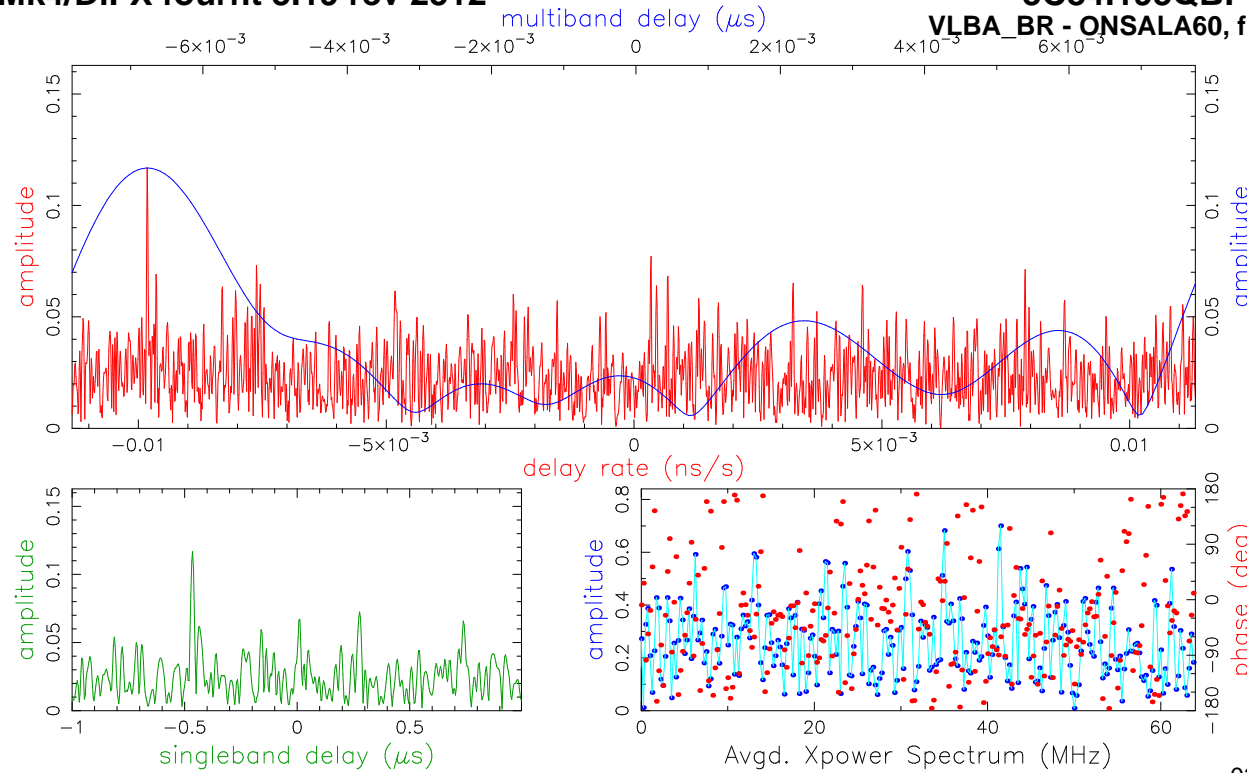
Fringe quality 0
SNR 5.6
Int time 353.986
Amp 0.143
Phase -124.4
PFD 1.0e+00
Delays (us)
SBD -0.514859
MBD -0.002229
Fringe rate (Hz) 0.782798
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122456
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-124.2	-131.7	-146.6	-61.3	-77.3	-91.2	-125.5	-165.5	Phase	-124.4
	0.2	0.2	0.2	0.0	0.1	0.2	0.1	0.2	Ampl.	0.1
	28.7	124.6	386.1	293.4	417.3	456.2	92.6	239.5	Sbd box	125.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.77397825992E+02								Resid mbdelay (usec)	-2.22944E-03 +/- 2.0E-04
Sband delay (usec)	-8.77394830800E+02								Resid sbdelay (usec)	-5.14859E-01 +/- 1.5E-03
Phase delay (usec)	-8.76879975561E+02								Resid phdelay (usec)	-4.01088E-06 +/- 6.6E-07
Delay rate (us/s)	-4.87687046932E-02								Resid rate (us/s)	9.08751E-06 +/- 3.2E-09
Total phase (deg)			-34.1						Resid phase (deg)	-124.4 +/- 20.6
									Apriori delay (usec)	-8.76879971550E+02
									Apriori clock (usec)	-1.8715775E+01
									Apriori clockrate (us/s)	-2.4600000E-07
									Apriori rate (us/s)	-4.87777921983E-02
									Apriori accel (us/s/s)	1.81176116712E-05
									Resid mode: MANUAL, MANUAL	PC period (AP's) 5, 5
									PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
									Bits/sample: 2x2	mb window (us) -0.008 0.008
									SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
									Sample rate(MISamp/s): 128	ion window (TEC) 0.00 0.00
									Data rate(Mb/s): 2048	
									nlags: 256	
									t_cohere infinite	

ph/seg (deg) 63.2 49.4 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 95.3 86.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 39.9 29.1 Inc. seg. avg. 0.155 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 52.7 50.8 Inc. frq. avg. 0.142 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 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.76.193QBF

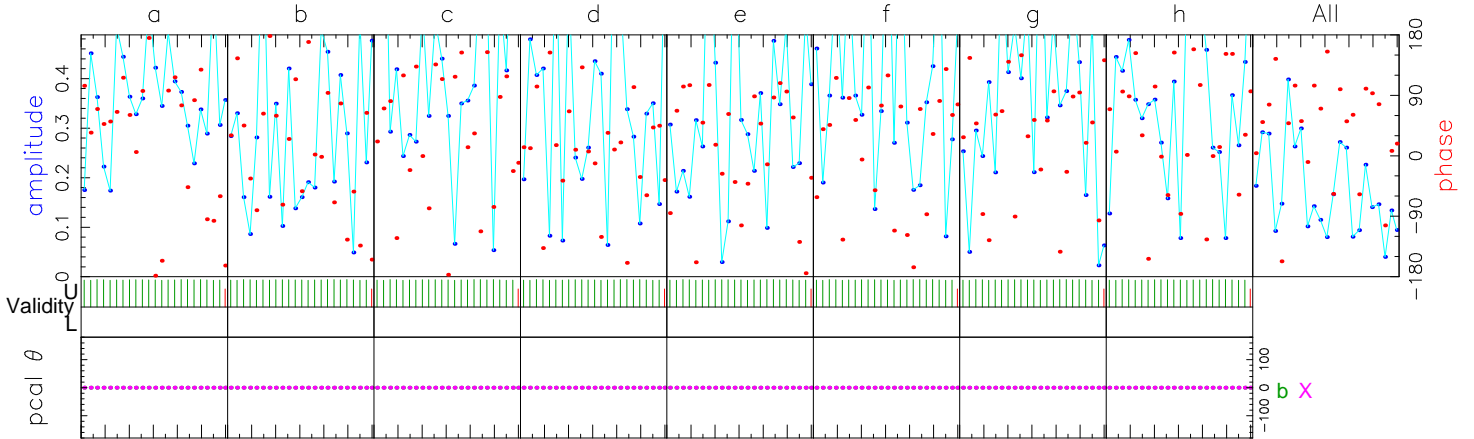


Fringe quality 0

SNR 6.0
Int time 354.682
Amp 0.163
Phase 65.0
PFD 3.6e-01
Delays (us)
SBD -0.465284
MBD -0.006778
Fringe rate (Hz)
-0.847287
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122445
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

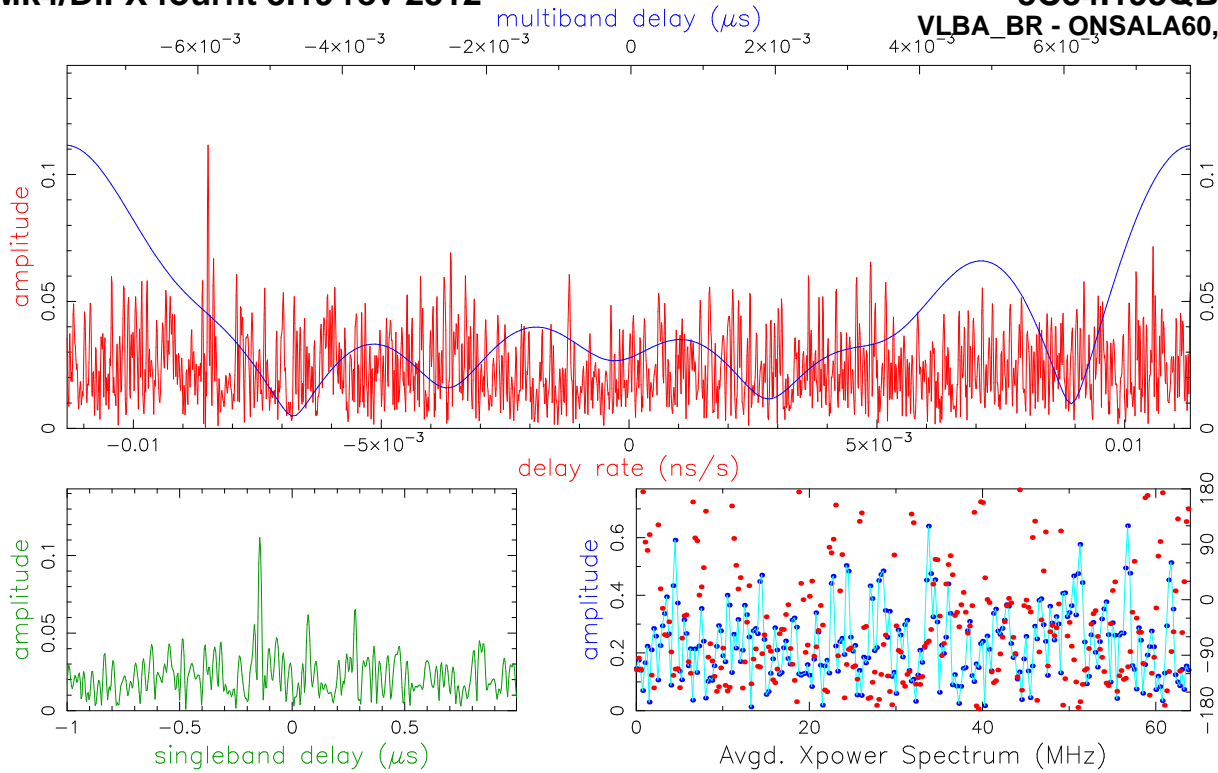
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)		1.01169145199E+03				1.01215135450E+03			Resid mbdelay (usec)	-6.77751E-03 +/- 1.8E-04	
Sband delay (usec)		1.01168607050E+03				-4.2239452E+01			Resid sbdelay (usec)	-4.65284E-01 +/- 1.4E-03	
Phase delay (usec)		1.01215135660E+03				-5.6999999E-07			Resid phdelay (usec)	2.09703E-06 +/- 6.1E-07	
Delay rate (us/s)		1.26865599975E+00				1.26866583591E+00			Resid rate (us/s)	-9.83616E-06 +/- 3.0E-09	
Total phase (deg)			308.7						Resid phase (deg)	65.0 +/- 19.0	
	RMS	Theor.	Amplitude	0.163 +/- 0.027					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	70.4	45.6	Search (2048X32)	0.111					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	93.6	79.7	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	27.4	26.9	Inc. seg. avg.	0.188					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	34.8	47.0	Inc. frq. avg.	0.162					Data rate(Mb/s): 2048		ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.23.193QBF

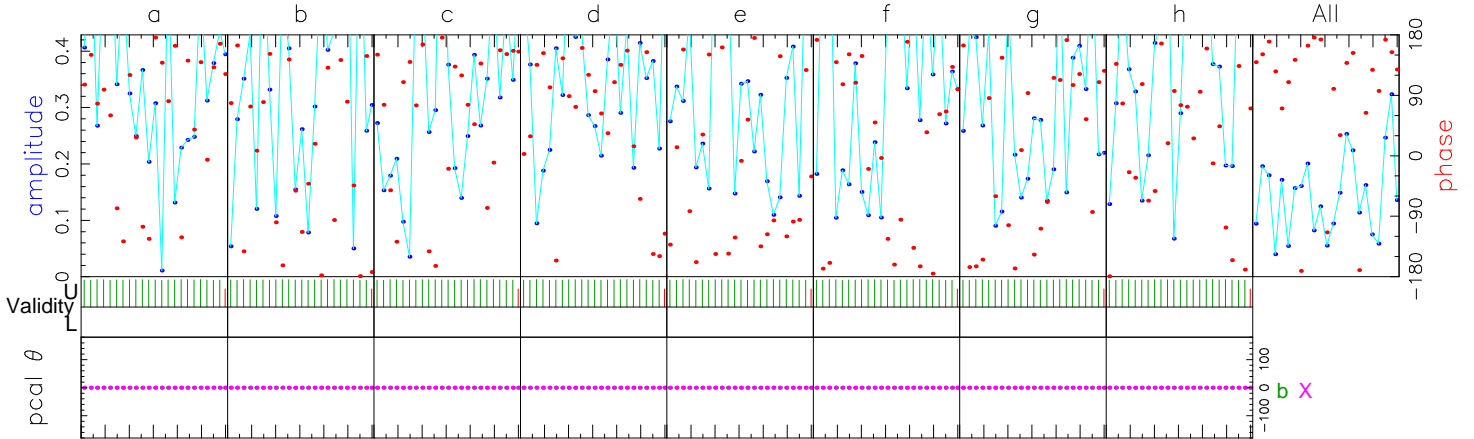


Fringe quality 0

SNR 5.8
Int time 354.683
Amp 0.143
Phase 144.9
PFD 8.5e-01
Delays (us)
SBD -0.143685
MBD -0.007811
Fringe rate (Hz)
-0.732430
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122449
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

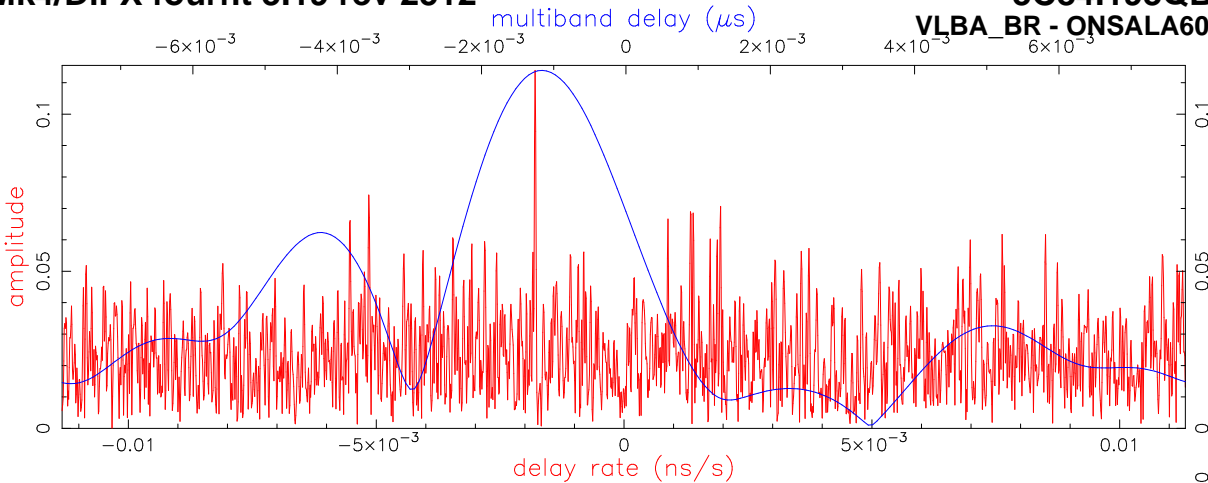


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.01200291863E+03			1.01215135450E+03				Resid mbdelay (usec)	-7.81087E-03	+/- 1.9E-04
Sband delay (usec)		1.01200766925E+03			-4.2239452E+01				Resid sbdelay (usec)	-1.43685E-01	+/- 1.5E-03
Phase delay (usec)		1.01215135918E+03			-5.6999999E-07				Resid phdelay (usec)	4.67412E-06	+/- 6.4E-07
Delay rate (us/s)		1.26865733312E+00			1.26866583591E+00				Resid rate (us/s)	-8.50279E-06	+/- 3.1E-09
Total phase (deg)			28.7		-1.29407507709E-05				Resid phase (deg)	144.9	+/- 19.8

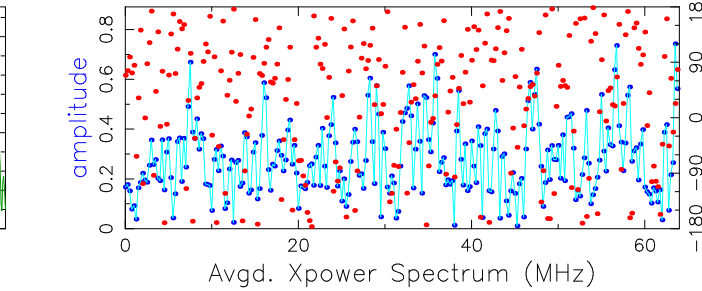
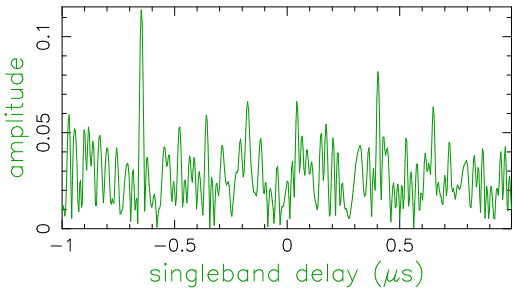
	RMS	Theor.	Amplitude	0.143 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	46.8	47.6	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	71.1	83.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.5	28.1	Inc. seg. avg.	0.138	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	27.3	49.0	Inc. frq. avg.	0.158	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.43.193QBF

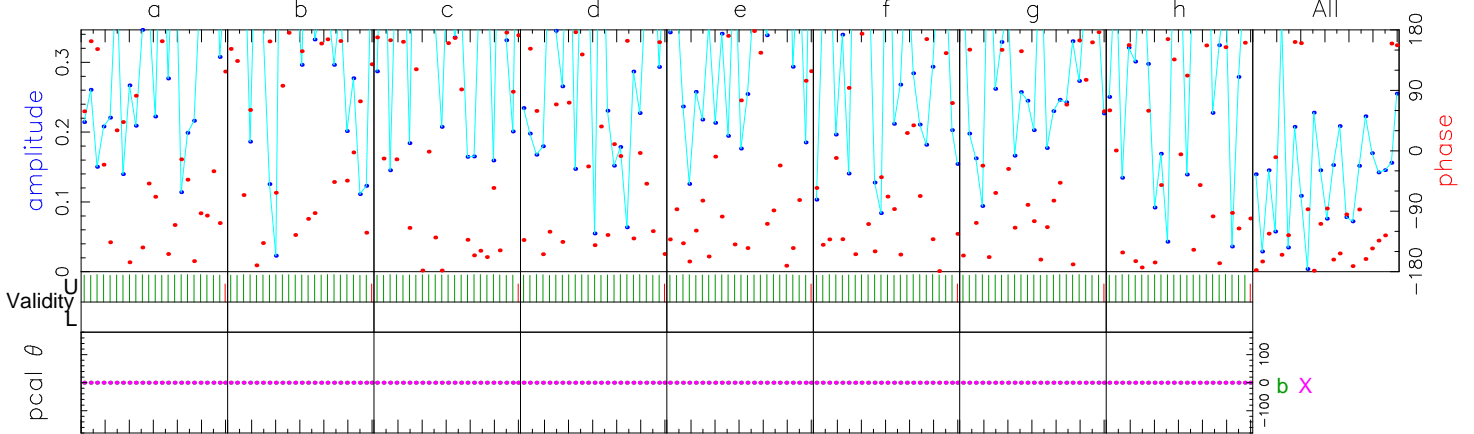


Fringe quality 0
SNR 5.9
Int time 354.682
Amp 0.116
Phase -154.7
PFD 6.3e-01
Delays (us)
SBD -0.647678
MBD -0.001134
Fringe rate (Hz)
-0.154596
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122453
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

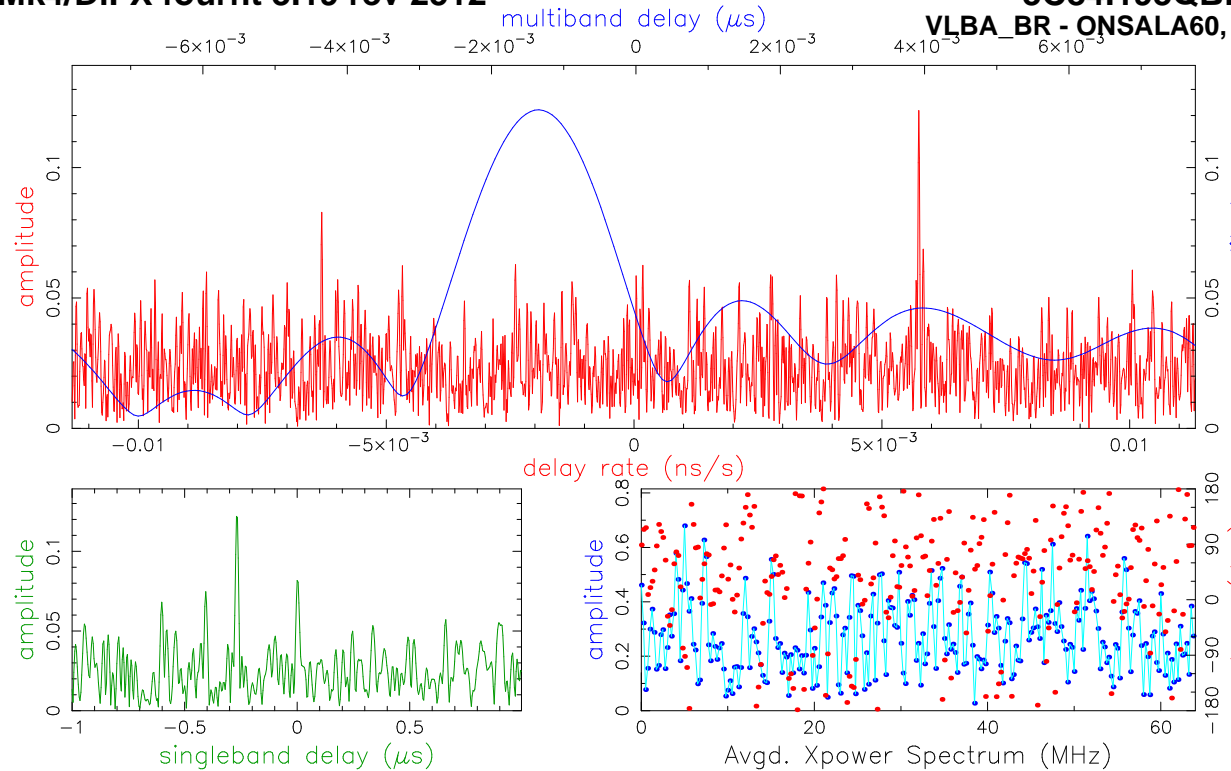


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.0	-179.2	-179.5	-139.5	-135.4	-137.0	-159.4	-175.7	Phase	-154.7
	0.1	0.1	0.2	0.0	0.2	0.1	0.1	0.1	Ampl.	0.1
	201.2	369.8	139.5	475.2	91.3	89.3	348.6	441.3	Sbd box	91.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.01150959581E+03	Apriori delay (usec)	1.01215135450E+03	Resid mbdelay (usec)	-1.13369E-03	+/-	1.8E-04
Sband delay (usec)	1.01150367650E+03	Apriori clock (usec)	-4.2239452E+01	Resid sbdelay (usec)	-6.47678E-01	+/-	1.5E-03
Phase delay (usec)	1.01215134951E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-4.98982E-06	+/-	6.3E-07
Delay rate (us/s)	1.26866404120E+00	Apriori rate (us/s)	1.26866583591E+00	Resid rate (us/s)	-1.79471E-06	+/-	3.0E-09
Total phase (deg)	89.0	Apriori accel (us/s/s)	-1.29407507709E-05	Resid phase (deg)	-154.7	+/-	19.5

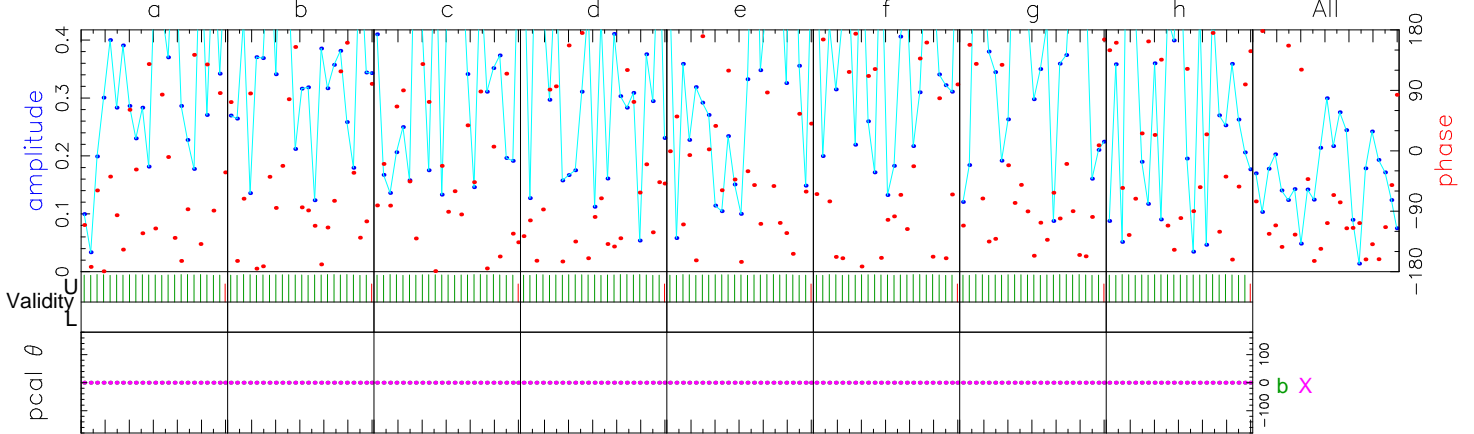
ph/seg (deg)	48.4	Theor.	46.7	Amplitude	0.116 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.4		81.4	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	28.5		27.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.7		48.0	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.63.193QBF



Fringe quality 0
SNR 6.4
Int time 354.683
Amp 0.139
Phase -119.5
PFD 3.4e-02
Delays (us)
SBD -0.267674
MBD -0.001285
Fringe rate (Hz)
0.495657
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122457
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

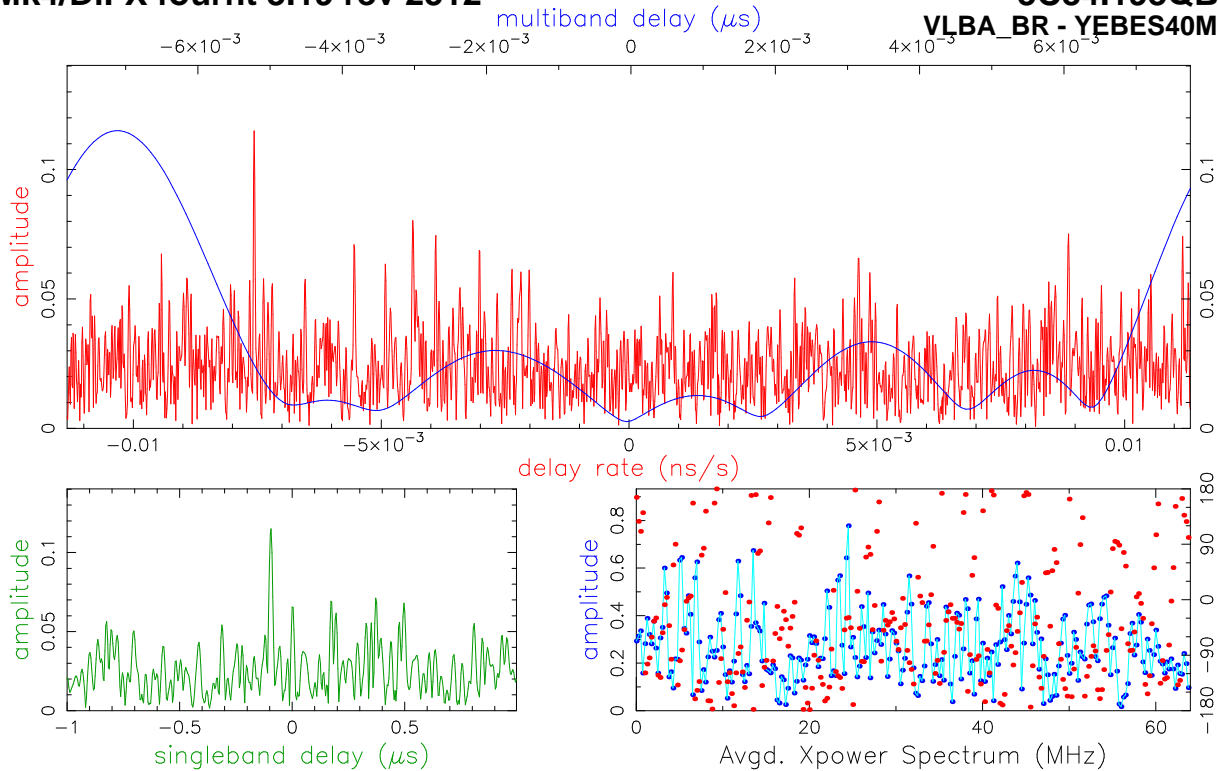


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-115.9	-110.1	-110.0	-133.2	-69.0	-161.4	-111.1	-121.4	Phase	-119.5
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	342.0	153.5	257.1	123.2	466.6	258.6	463.7	41.7	Sbd box	188.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.01188444439E+03	Apriori delay (usec)	1.01215135450E+03	Resid mbdelay (usec)	-1.28511E-03	+/-	1.7E-04
Sband delay (usec)	1.01188368050E+03	Apriori clock (usec)	-4.2239452E+01	Resid sbdelay (usec)	-2.67674E-01	+/-	1.3E-03
Phase delay (usec)	1.01215135065E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-3.85405E-06	+/-	5.7E-07
Delay rate (us/s)	1.26867159000E+00	Apriori rate (us/s)	1.26866583591E+00	Resid rate (us/s)	5.75409E-06	+/-	2.8E-09
Total phase (deg)	124.2	Apriori accel (us/s/s)	-1.29407507709E-05	Resid phase (deg)	-119.5	+/-	17.8

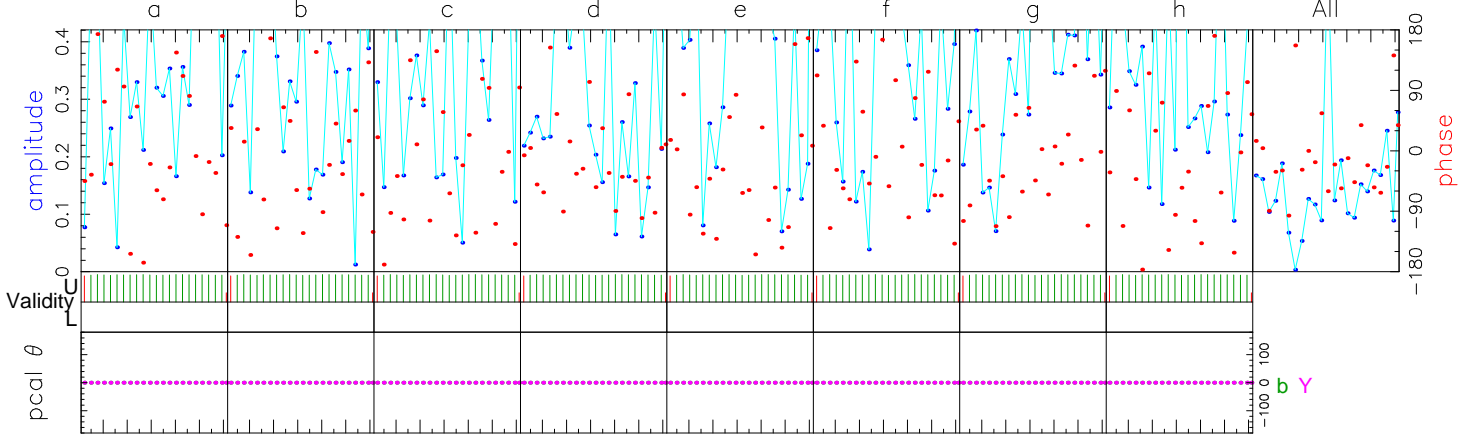
ph/seg (deg)	54.2	RMS	42.7	Theor.	54.2	Amplitude	0.139 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.1	Search (2048X32)	0.120	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	28.2	Inc. seg. avg.	0.142	Inc. frq. avg.	0.135	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	31.7	Inc. frq. avg.	0.135	Sample rate (MSamp/s): 128		SampCntNorm: enabled		dr window (ns/s)	-0.011 0.011
				Data rate (Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.77.193QBF



Fringe quality 0
SNR 5.9
Int time 348.973
Amp 0.140
Phase -29.6
PFD 5.6e-01
Delays (us)
SBD -0.094998
MBD -0.007164
Fringe rate (Hz)
-0.651896
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122445
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

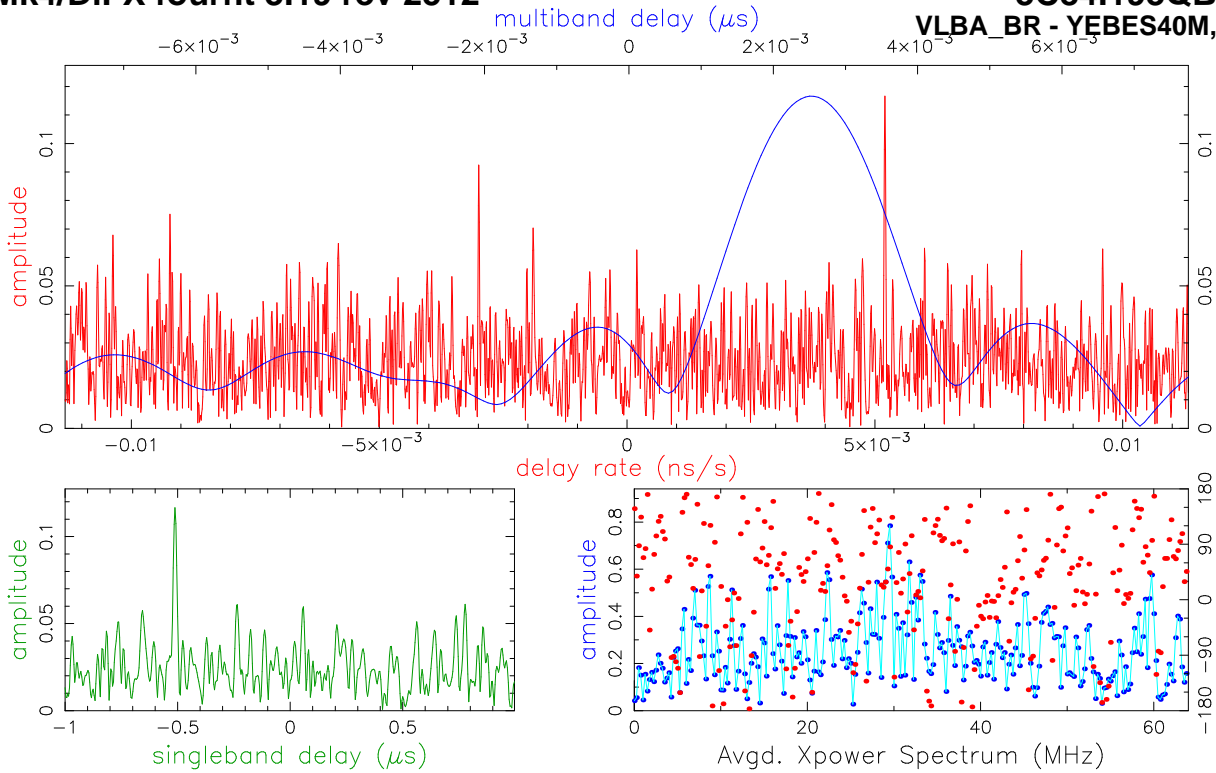


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.5	-39.7	-45.7	-26.6	-28.9	-31.2	-16.8	-47.0	Phase	-29.6
	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	Ampl.	0.1
	88.1	506.5	382.7	26.2	464.3	266.6	234.4	256.2	Sbd box	232.7
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.21115770977E+02	Apriori delay (usec)	-2.21014857163E+02	Resid mbdelay (usec)	-7.16381E-03	+/-	1.8E-04
Sband delay (usec)	-2.21109854663E+02	Apriori clock (usec)	-1.3402857E+01	Resid sbdelay (usec)	-9.49975E-02	+/-	1.5E-03
Phase delay (usec)	-2.21014858118E+02	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	-9.54848E-07	+/-	6.2E-07
Delay rate (us/s)	1.40850357108E+00	Apriori rate (us/s)	1.40851113895E+00	Resid rate (us/s)	-7.56787E-06	+/-	3.0E-09
Total phase (deg)	-316.2	Apriori accel (us/s/s)	8.21134373191E-06	Resid phase (deg)	-29.6	+/-	19.3

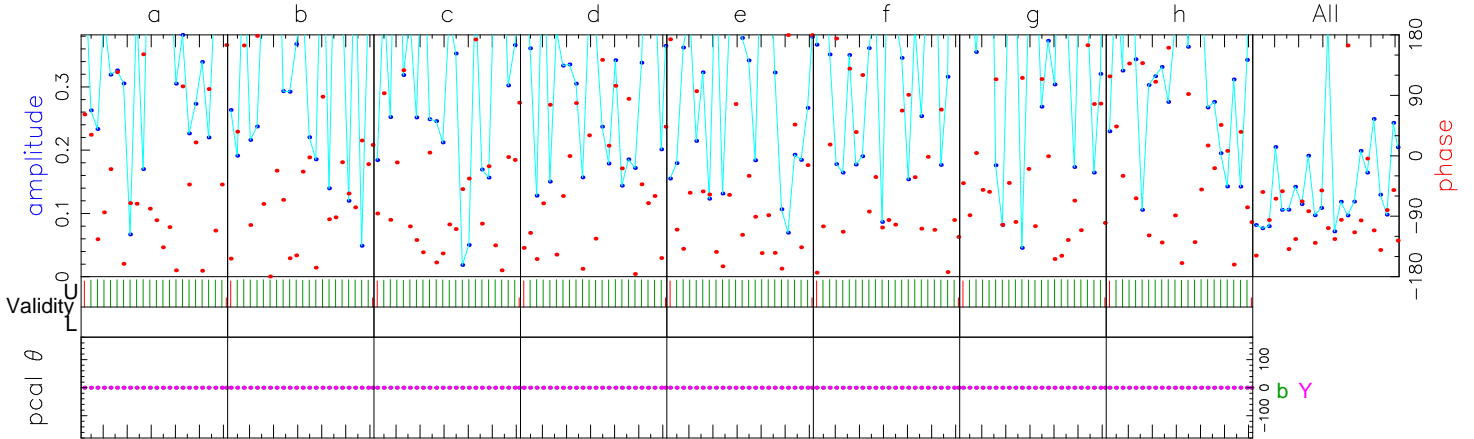
ph/seg (deg)	63.3	Theor.	46.4	Amplitude	0.140 +/- 0.024	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	93.7	Search (2048X32)	0.112	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	12.0	Inc. seg. avg.	0.136	Inc. frq. avg.	0.127	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.9	Inc. frq. avg.	0.127			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 75.0 el 47.2 pa -59.5 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10774.698 1274.674 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bY..193QBF Output file: /Exps/c201d/v1/1234/No0057/bY.W.22.193QBF



Fringe quality 0
SNR 6.0
Int time 348.973
Amp 0.127
Phase -94.2
PFD 4.8e-01
Delays (us)
SBD -0.511704
MBD 0.002528
Fringe rate (Hz) 0.449030
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122448
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

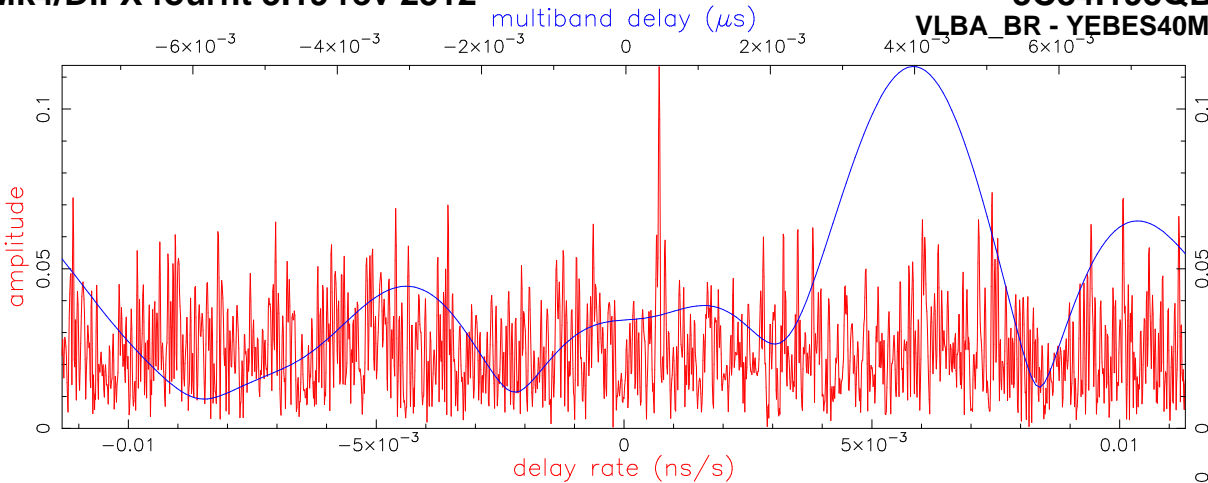
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-104.6	-70.3	-115.3	-80.5	-106.3	-92.5	-80.4	-125.1	Phase	-94.2
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	395.2	56.7	22.6	119.1	328.4	149.6	126.1	429.0	Sbd box	126.0
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.21527954204E+02		Apriori delay (usec)		-2.21014857163E+02		Resid mbdelay (usec)		2.52796E-03	+/- 1.8E-04
Sband delay (usec)	-2.21526560913E+02		Apriori clock (usec)		-1.3402857E+01		Resid sbdelay (usec)		-5.11704E-01	+/- 1.4E-03
Phase delay (usec)	-2.21014860202E+02		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-3.03893E-06	+/- 6.2E-07
Delay rate (us/s)	1.40851635174E+00		Apriori rate (us/s)		1.40851113895E+00		Resid rate (us/s)		5.21279E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		8.21134373191E-06		Resid phase (deg)		-94.2	+/- 19.2

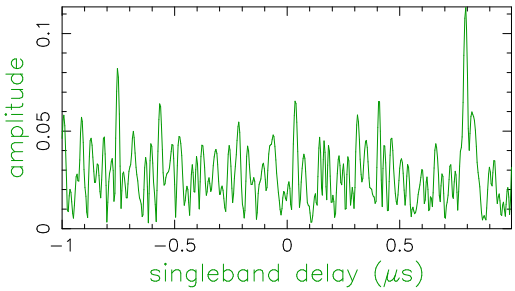
	RMS	Theor.	Amplitude	0.127 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	41.7	46.1	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.9	80.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	20.8	27.2	Inc. seg. avg.	0.121	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	31.3	47.5	Inc. frq. avg.	0.119	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10774.698 1274.674 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bY..193QBF Output file: /Exps/c201d/v1/1234/No0057/bY.W.38.193QBF

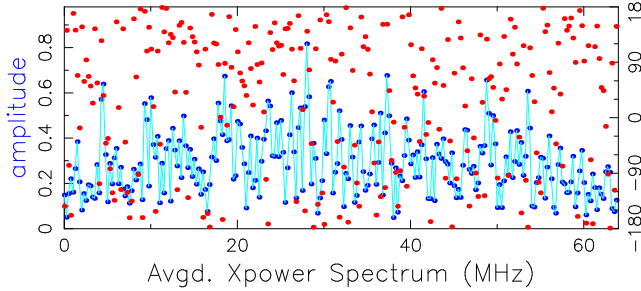


Fringe quality 0

SNR 5.8
 Int time 348.973
 Amp 0.114
 Phase -152.5
 PFD 8.1e-01
 Delays (us)
 SBD 0.792302
 MBD 0.003939
 Fringe rate (Hz)
 0.060989
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

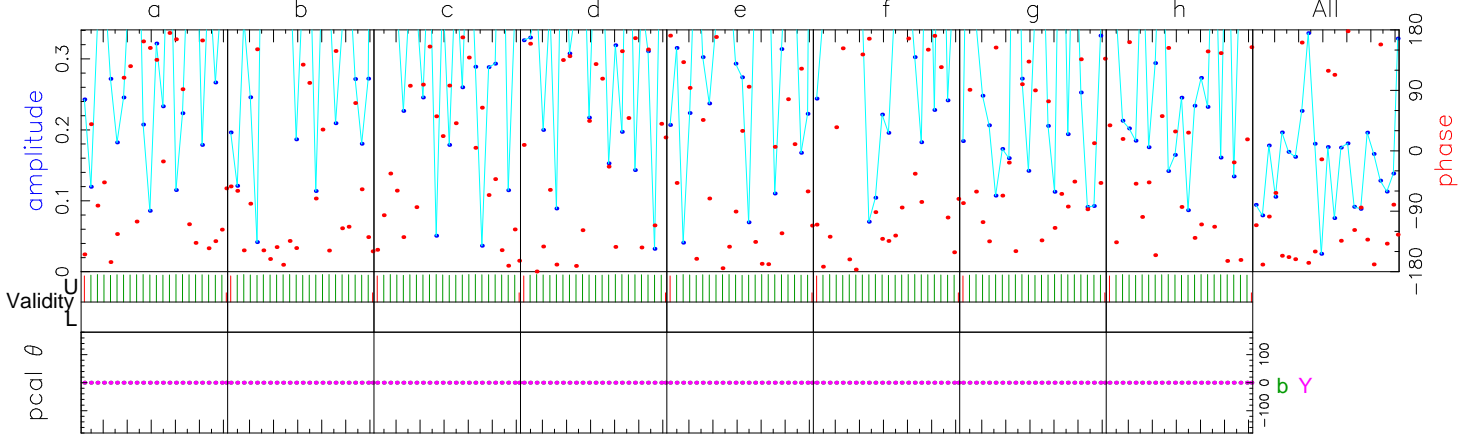


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122452
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

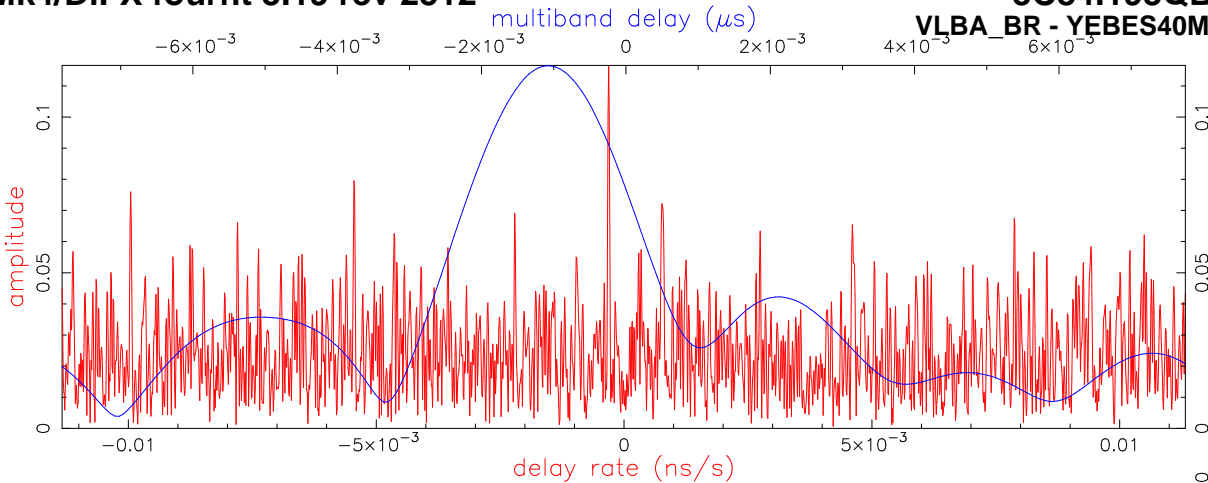


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-145.0	-150.1	-126.6	142.3	-152.8	-162.7	-104.1	-129.3	Phase	-152.5
	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	471.1	458.4	498.2	485.6	114.4	344.1	402.0	268.8	Sbd box	459.8
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.20229667682E+02		Apriori delay (usec)		-2.21014857163E+02		Resid mbdelay (usec)		3.93948E-03	+/- 1.9E-04
Sband delay (usec)	-2.20222554913E+02		Apriori clock (usec)		-1.3402857E+01		Resid sbdelay (usec)		7.92302E-01	+/- 1.5E-03
Phase delay (usec)	-2.21014862079E+02		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-4.91640E-06	+/- 6.4E-07
Delay rate (us/s)	1.40851184697E+00		Apriori rate (us/s)		1.40851113895E+00		Resid rate (us/s)		7.08020E-07	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		8.21134373191E-06		Resid phase (deg)		-152.5	+/- 19.8

	RMS	Theor.	Amplitude	0.114 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	55.0	47.4	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	68.2	82.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	36.4	27.9	Inc. seg. avg.	0.114	Sample rate(MSamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.5	48.8	Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

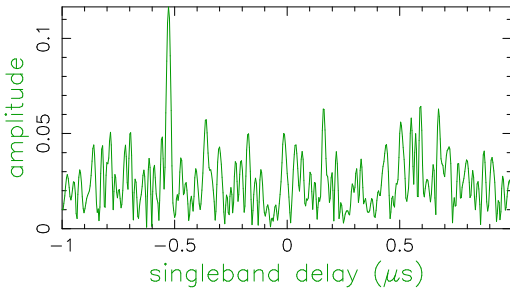
b: az 75.0 el 47.2 pa -59.5 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10774.698 1274.674 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bY..193QBF Output file: /Exps/c201d/v1/1234/No0057/bY.W.57.193QBF

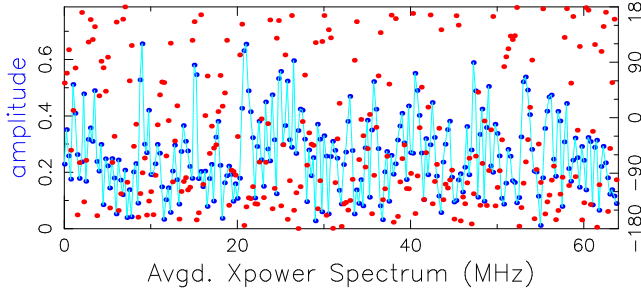


Fringe quality 0

SNR 6.0
Int time 348.973
Amp 0.117
Phase -66.0
PFD 4.9e-01
Delays (us)
SBD -0.526959
MBD -0.001066
Fringe rate (Hz)
-0.026688
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

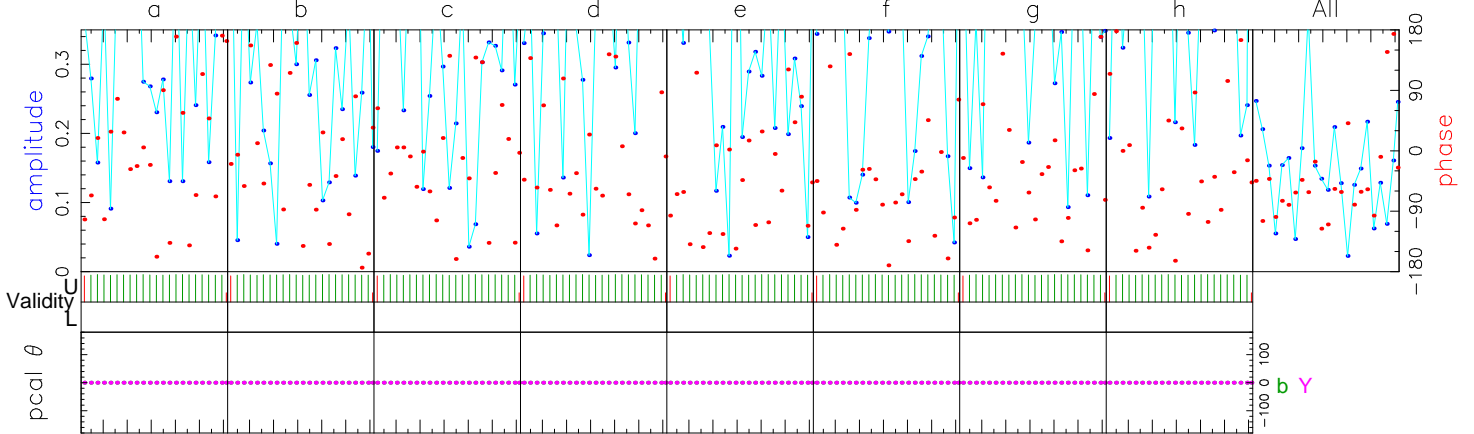


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122456
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

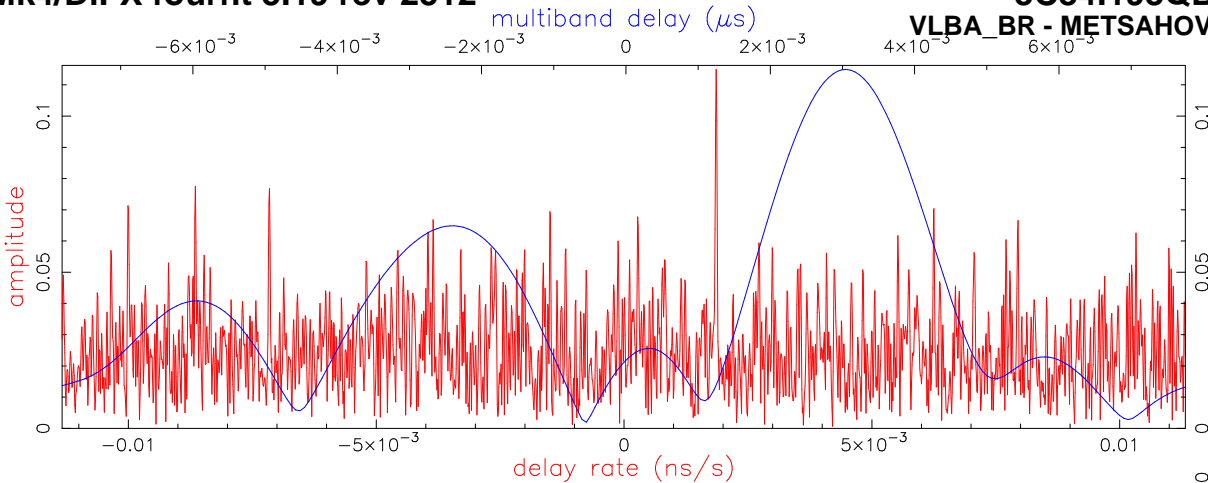


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	-2.21547172952E+02	Apriori delay (usec)	-2.21014857163E+02	Resid mbdelay (usec)	-1.06579E-03	+/-	1.8E-04
Sband delay (usec)	-2.21541815663E+02	Apriori clock (usec)	-1.3402857E+01	Resid sbdelay (usec)	-5.26959E-01	+/-	1.4E-03
Phase delay (usec)	-2.21014859291E+02	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	-2.12812E-06	+/-	6.2E-07
Delay rate (us/s)	1.40851082912E+00	Apriori rate (us/s)	1.40851113895E+00	Resid rate (us/s)	-3.09826E-07	+/-	3.0E-09
Total phase (deg)	-352.6	Apriori accel (us/s/s)	8.21134373191E-06	Resid phase (deg)	-66.0	+/-	19.2

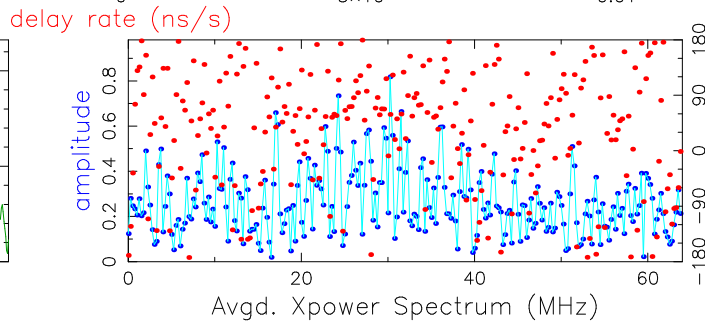
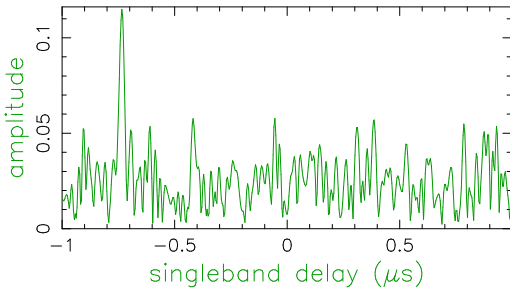
ph/seg (deg)	53.4	Theor.	46.1	Amplitude	0.117 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.3		80.5	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	24.4		27.2	Inc. seg. avg.	0.113	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.0		47.5	Inc. frq. avg.	0.113	Sample rate(MSamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 75.0 el 47.2 pa -59.5 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10774.698 1274.674 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bY..193QBF Output file: /Exps/c201d/v1/1234/No0057/bY.W.74.193QBF



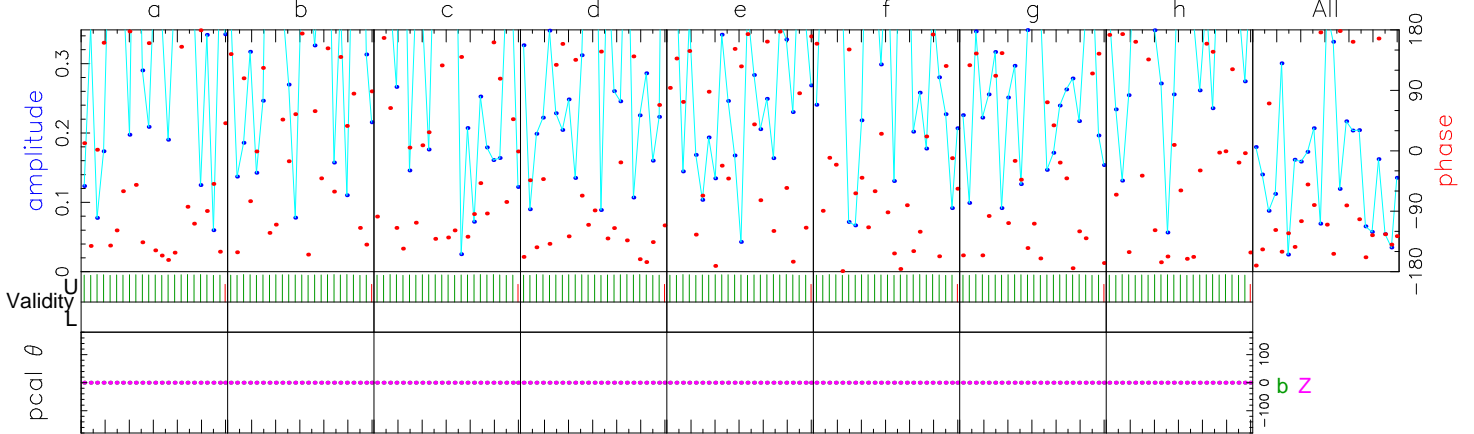
Fringe quality 0

SNR 5.9
 Int time 354.204
 Amp 0.116
 Phase -133.3
 PFD 5.7e-01
 Delays (us)
 SBD -0.734054
 MBD 0.003047
 Fringe rate (Hz)
 0.160295
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201d
 Yr:day 16383
 Start 2020:204:118
 Stop 2020:204:122447
 FRT 2020:014:135814
 Corr/FF/build
 2020:204:103652
 2020:204:122447
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



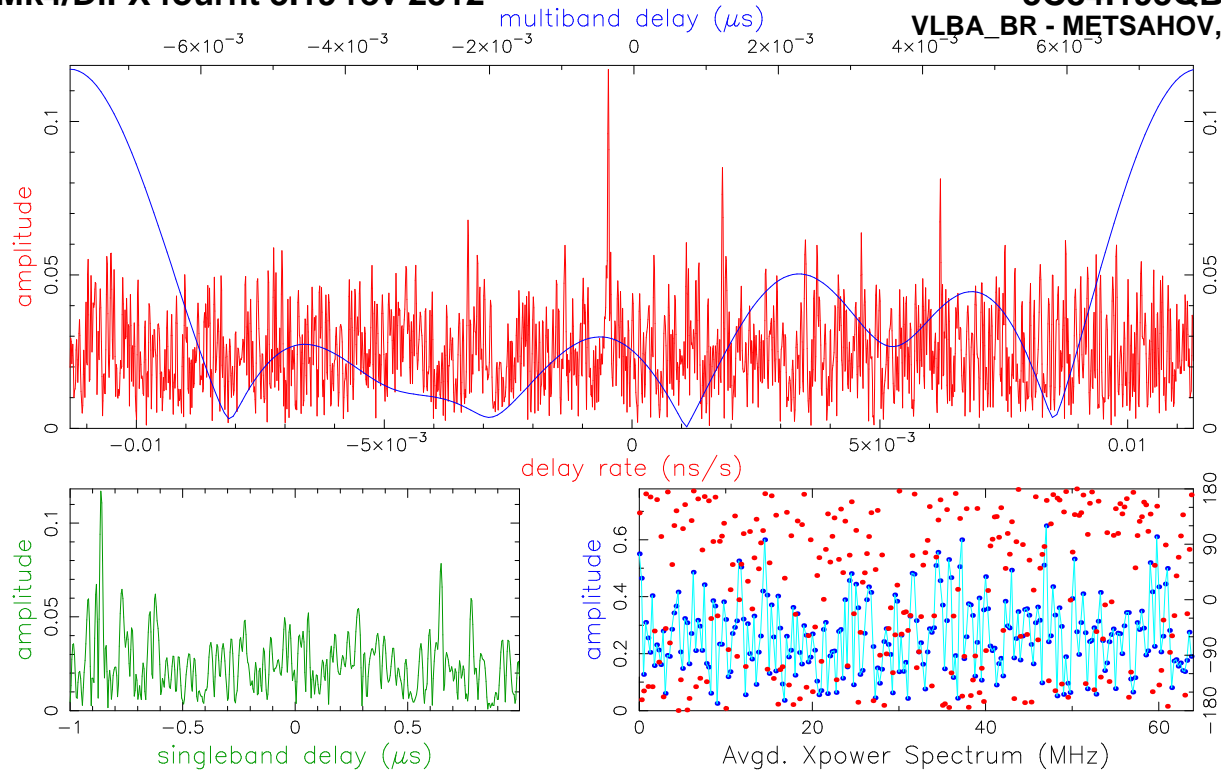
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.6	-164.6	-117.3	-125.2	160.0	-102.1	-148.2	-142.1	Phase	-133.3
	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	64.5	135.2	25.5	69.5	389.0	161.4	220.9	84.4	Sbd box	69.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.58853843241E+03	Apriori delay (usec)	2.58926976060E+03	Resid mbdelay (usec)	3.04682E-03	+/-	1.8E-04
Sband delay (usec)	2.58853570635E+03	Apriori clock (usec)	-1.2968005E+00	Resid sbdelay (usec)	-7.34054E-01	+/-	1.5E-03
Phase delay (usec)	2.58926975630E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-4.29911E-06	+/-	6.2E-07
Delay rate (us/s)	1.25006962878E+00	Apriori rate (us/s)	1.25006776791E+00	Resid rate (us/s)	1.86087E-06	+/-	3.0E-09
Total phase (deg)	-69.3	Apriori accel (us/s/s)	-2.30259562128E-05	Resid phase (deg)	-133.3	+/-	19.4

ph/seg (deg)	RMS 49.7	Theor. 46.4	Amplitude Search (2048X32)	0.116 +/- 0.020	0.112	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.6	81.1	Interp.	0.000	0.112	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	34.2	27.4	Inc. seg. avg.	0.118	0.112	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	46.9	47.8	Inc. frq. avg.	0.114	0.112	Data rate(Mb/s): 2048	nlags: 256 t_coherence infinite	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.31.193QBF

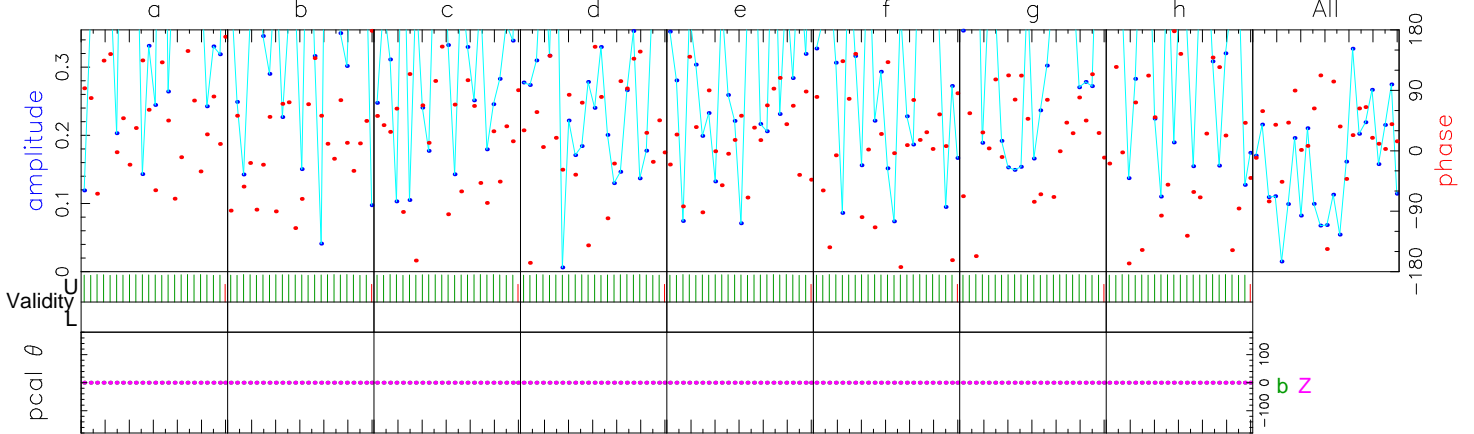


Fringe quality 0

SNR 6.1
Int time 354.205
Amp 0.118
Phase 31.2
PFD 2.7e-01
Delays (us)
SBD -0.862168
MBD -0.007779
Fringe rate (Hz)
-0.041190
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122450
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

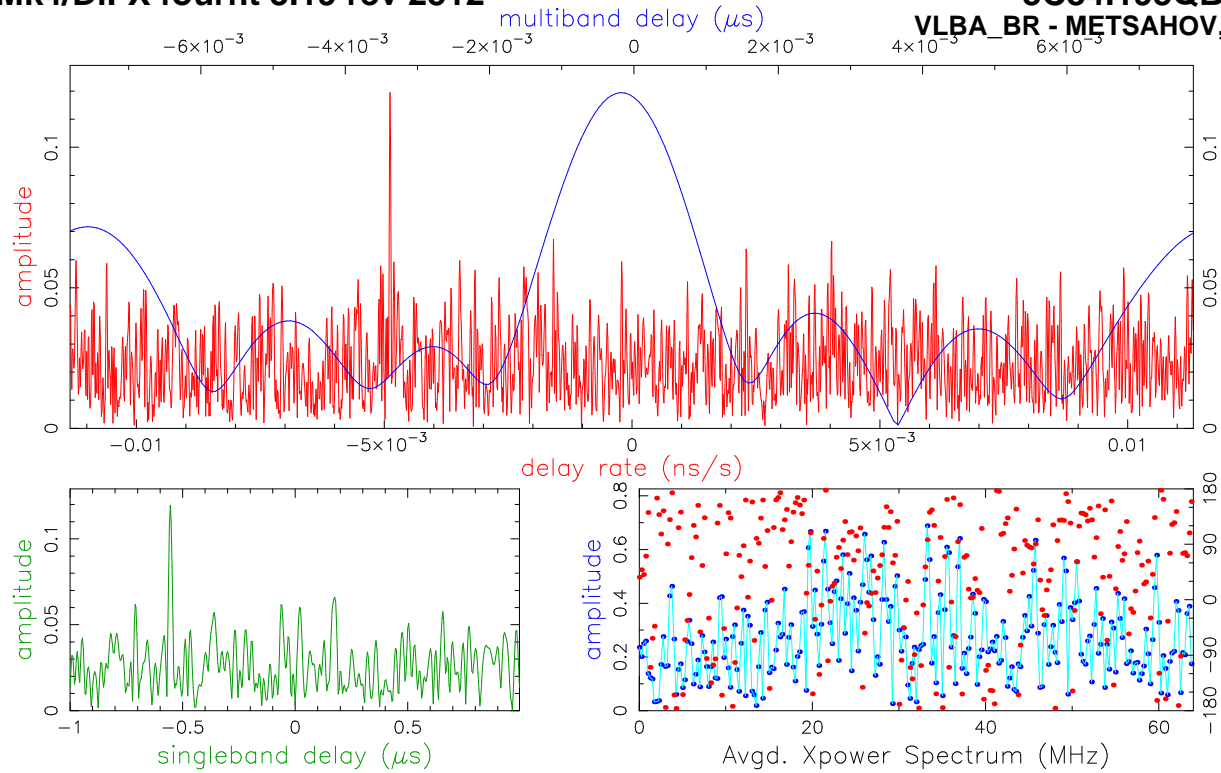


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.58840260691E+03		Apriori delay (usec)		2.58926976060E+03		Resid mbdelay (usec)		-7.77869E-03	+/- 1.8E-04
Sband delay (usec)	2.58840759235E+03		Apriori clock (usec)		-1.2968005E+00		Resid sbdelay (usec)		-8.62168E-01	+/- 1.4E-03
Phase delay (usec)	2.58926976160E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		1.00694E-06	+/- 6.1E-07
Delay rate (us/s)	1.25006728974E+00		Apriori rate (us/s)		1.25006776791E+00		Resid rate (us/s)		-4.78174E-07	+/- 2.9E-09
Total phase (deg)	95.2		Apriori accel (us/s/s)		-2.30259562128E-05		Resid phase (deg)		31.2	+/- 18.8

	RMS	Theor.	Amplitude	0.118 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.8	45.2	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	73.1	78.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.1	26.6	Inc. seg. avg.	0.118	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	45.6	46.5	Inc. frq. avg.	0.112	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.48.193QBF

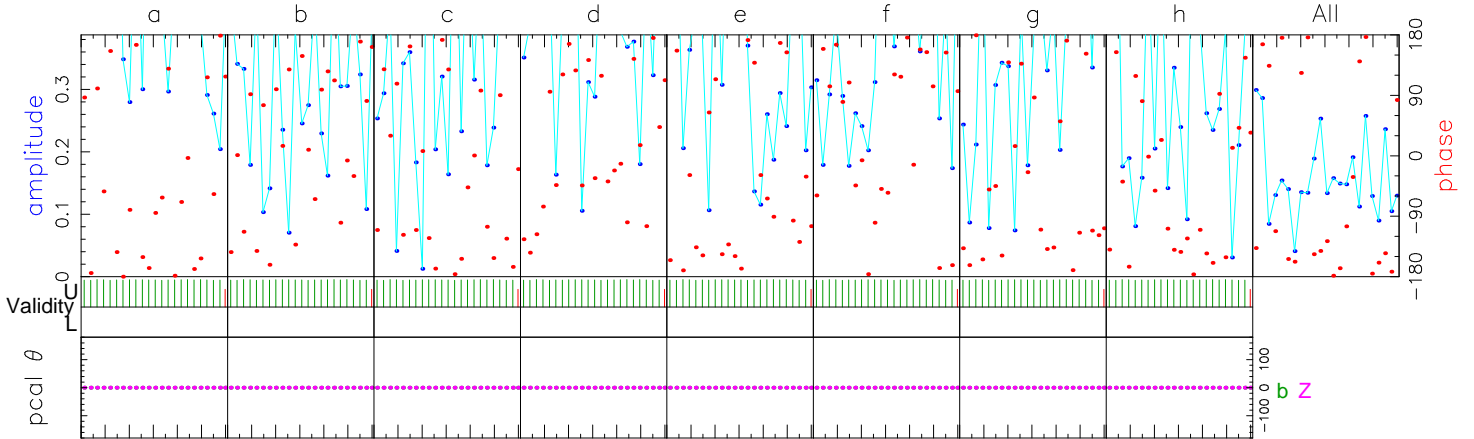


Fringe quality 0

SNR 6.1
 Int time 354.204
 Amp 0.129
 Phase -162.7
 PFD 1.9e-01
 Delays (us)
 SBD -0.554479
 MBD -0.000173
 Fringe rate (Hz)
 -0.421386
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122454
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



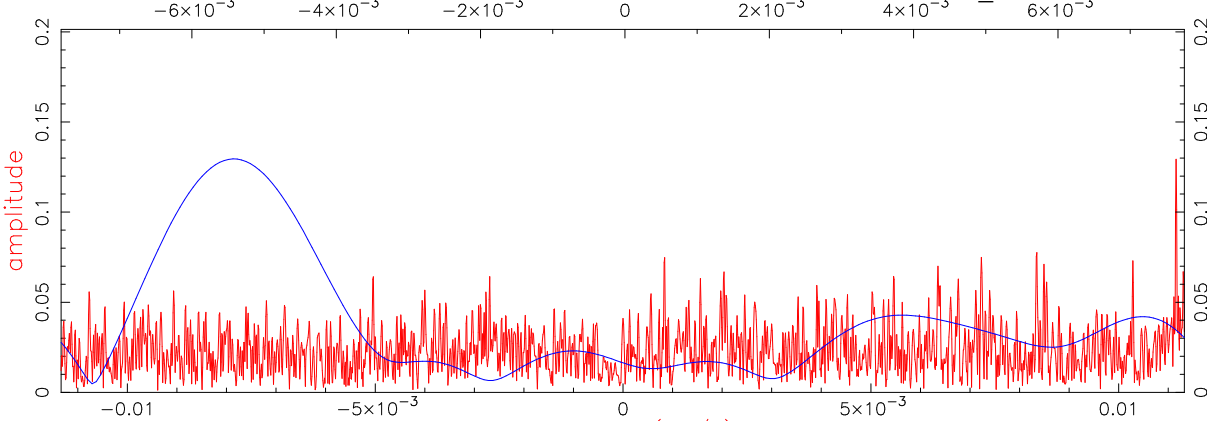
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-163.2	179.0	-149.6	175.6	-152.3	141.4	-152.2	-162.0	Phase	-162.7
	0.2	0.0	0.1	0.0	0.2	0.1	0.2	0.1	Ampl.	0.1
	200.0	406.5	412.2	193.6	115.1	392.8	230.3	63.6	Sbd box	115.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.58872271265E+03		Apriori delay (usec)		2.58926976060E+03		Resid mbdelay (usec)		-1.72948E-04	+/- 1.8E-04
Sband delay (usec)	2.58871528185E+03		Apriori clock (usec)		-1.2968005E+08		Resid sbdelay (usec)		-5.54479E-01	+/- 1.4E-03
Phase delay (usec)	2.58926975535E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		-5.24622E-06	+/- 6.0E-07
Delay rate (us/s)	1.25006287603E+00		Apriori rate (us/s)		1.25006776791E+00		Resid rate (us/s)		-4.89187E-06	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.30259562128E-05		Resid phase (deg)		-162.7	+/- 18.6

	RMS	Theor.	Amplitude	0.129 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.2	44.7	Search (2048X32)	0.115	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.4	78.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	26.8	26.4	Inc. seg. avg.	0.133	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	57.4	46.0	Inc. frq. avg.	0.124	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

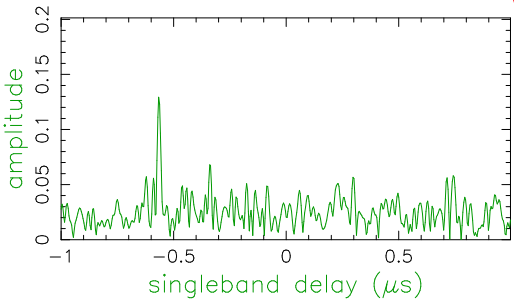
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.66.193QBF

multiband delay (μ s)

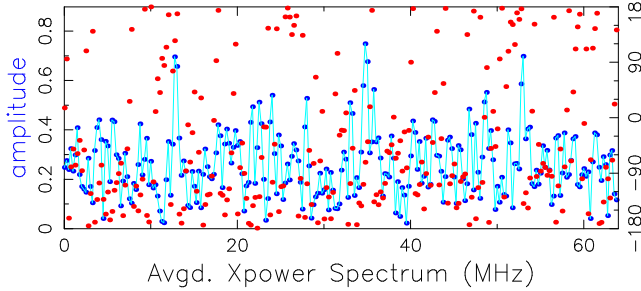


Fringe quality 0

SNR 6.7
 Int time 354.205
 Amp 0.201
 Phase -100.4
 PFD 6.4e-03
 Delays (us)
 SBD -0.565516
 MBD -0.005362
 Fringe rate (Hz)
 0.962672
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

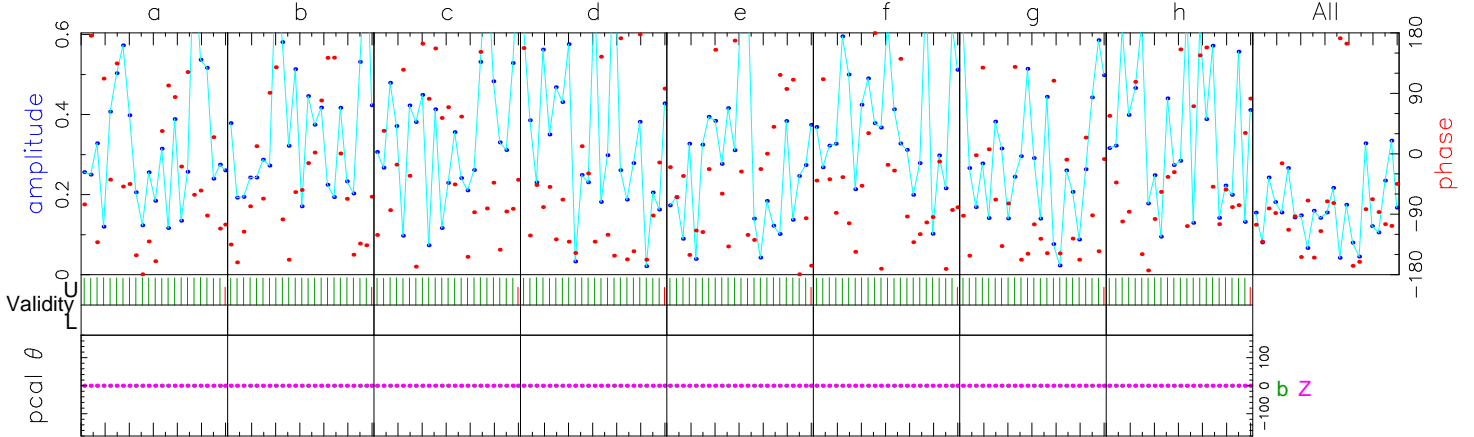


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122457
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
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)	2.58870189855E+03	Apriori delay (usec)	2.58926976060E+03	Resid mbdelay (usec)	-5.36204E-03	+/-	1.6E-04
Sband delay (usec)	2.58870424510E+03	Apriori clock (usec)	-1.2968005E+08	Resid sbdelay (usec)	-5.65516E-01	+/-	1.3E-03
Phase delay (usec)	2.58926975736E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-3.23805E-06	+/-	5.5E-07
Delay rate (us/s)	1.25007894358E+00	Apriori rate (us/s)	1.25006776791E+00	Resid rate (us/s)	1.11757E-05	+/-	2.7E-09
Total phase (deg)	-36.4	Apriori accel (us/s/s)	-2.30259562128E-05	Resid phase (deg)	-100.4	+/-	17.1

ph/seg (deg)	45.2	RMS	41.1	Theor.	41.1	Amplitude	0.201 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	65.5	45.2	41.1	Search (2048X32)	0.123	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	20.5	30.2	42.3	Inc. seg. avg.	0.201	Inc. frq. avg.	0.195	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	30.2	42.3		Inc. frq. avg.	0.195			Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
								Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9597.558 -2358.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/bZ.W.79.193QBF