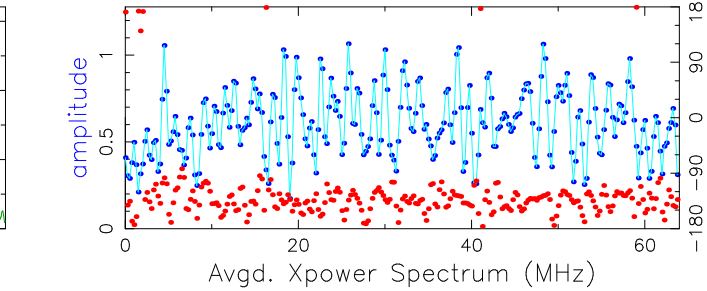
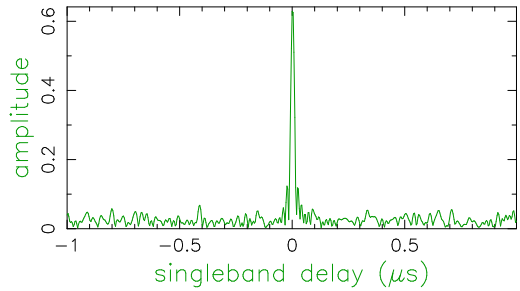


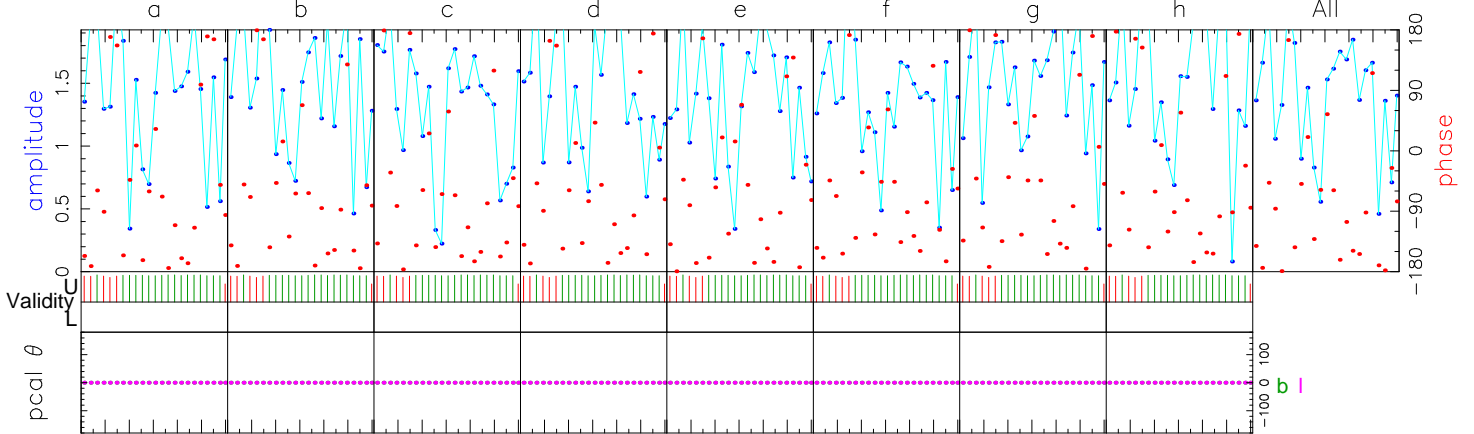
Fringe quality 7

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 16383
2020:204:103652
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
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

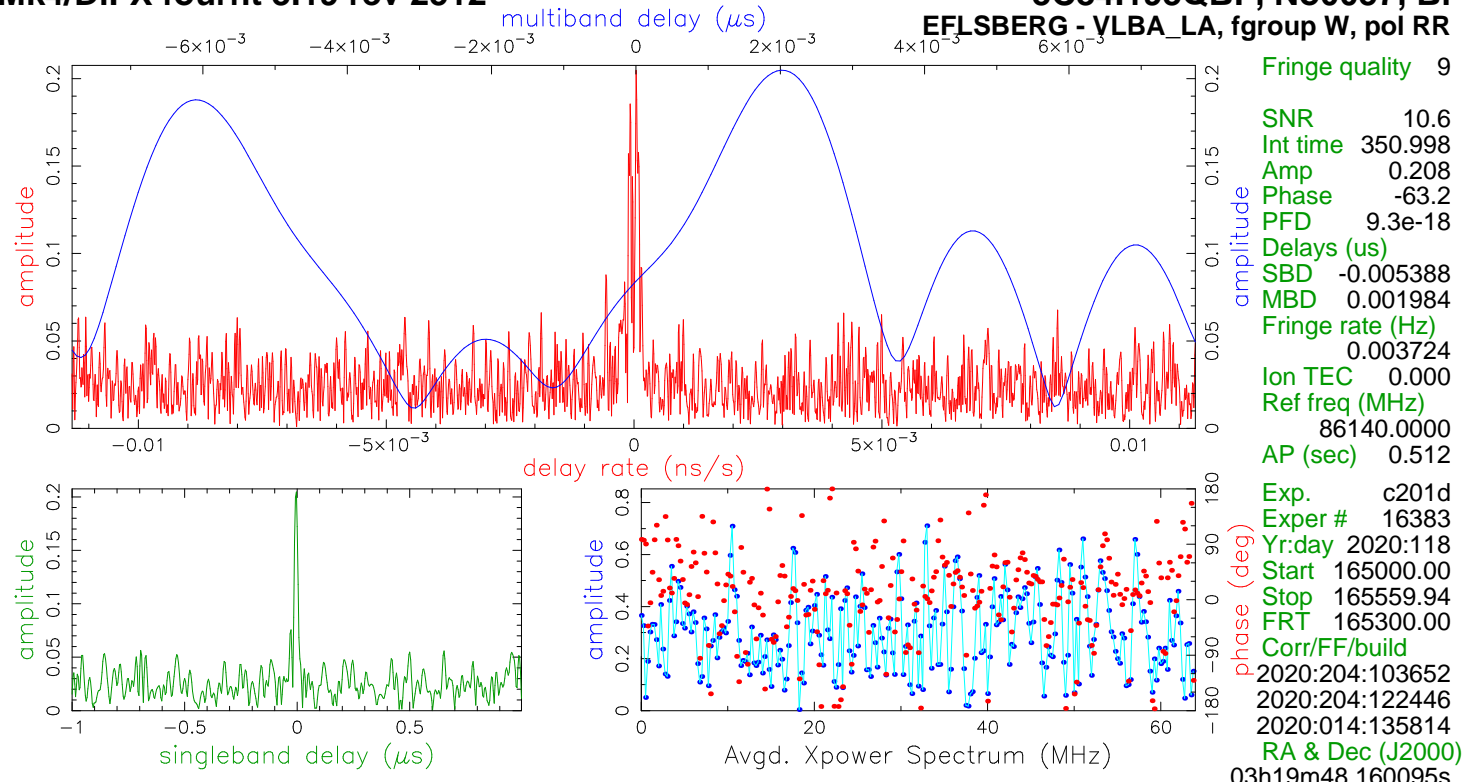


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

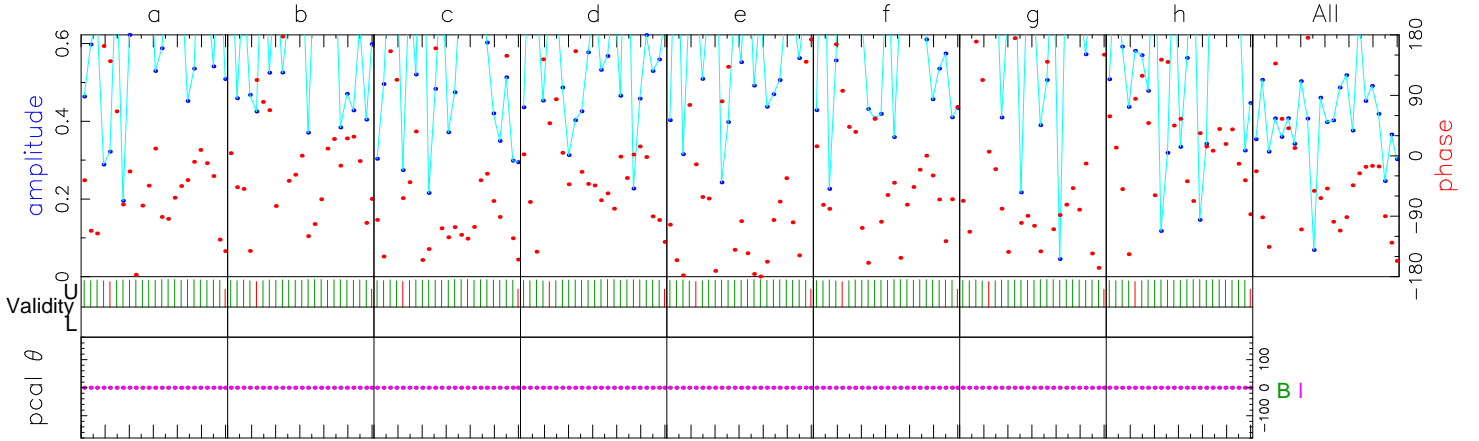
Group delay (usec)(sbd)	-1.31220735649E+03	Apriori delay (usec)	-1.31220871384E+03	Resid mbdelay (usec)	1.35735E-03	+/-	3.3E-05
Sband delay (usec)	-1.31220688859E+03	Apriori clock (usec)	2.3158147E+00	Resid sbdelay (usec)	1.82525E-03	+/-	2.6E-04
Phase delay (usec)	-1.31220871804E+03	Apriori clockrate (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

ph/seg (deg)	73.4	RMS	73.4	Theor.	8.4	Amplitude	0.642 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	138.4		138.4		14.7	Search (2048X32)	0.624	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	8.1		8.1		5.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	10.4		10.4		8.7	Inc. seg. avg.	1.390	Sample rate(MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	0.628	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 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

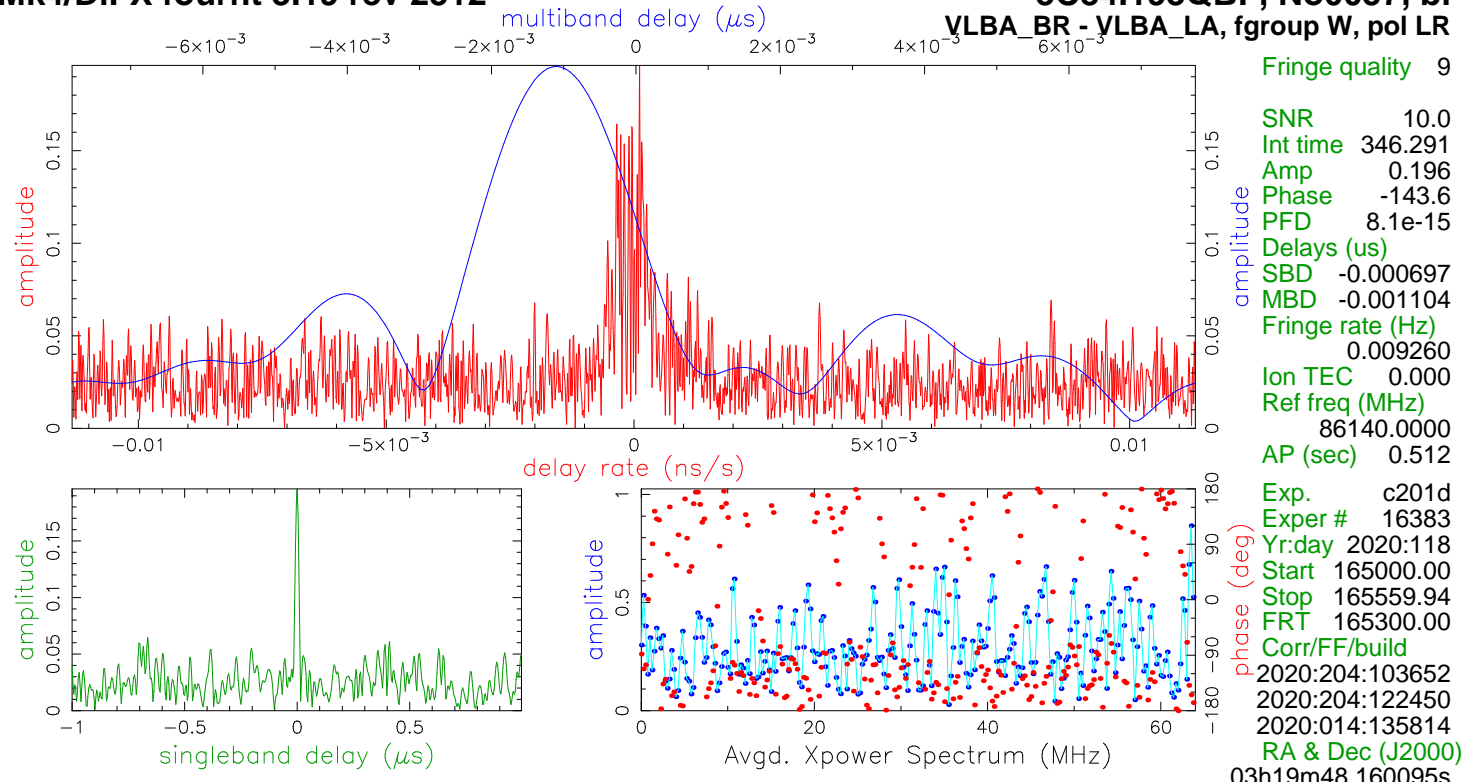


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.6	-21.8	-119.7	-41.6	-137.8	-46.7	-114.0	10.4	Phase	-63.2
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3
	256.0	255.6	256.4	256.3	256.6	256.0	257.0	256.7	Sbd box	255.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.01565062492E+03		Apriori delay (usec)		-2.01565260900E+03		Resid mbdelay (usec)		1.98408E-03	+/- 1.0E-04
Sband delay (usec)	-2.01565799675E+03		Apriori clock (usec)		1.6755497E+01		Resid sbdelay (usec)		-5.38775E-03	+/- 8.1E-04
Phase delay (usec)	-2.01565261104E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-2.03690E-06	+/- 3.5E-07
Delay rate (us/s)	-1.36645365591E+00		Apriori rate (us/s)		-1.36645369914E+00		Resid rate (us/s)		4.32355E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.48312086431E-05		Resid phase (deg)		-63.2	+/- 10.8

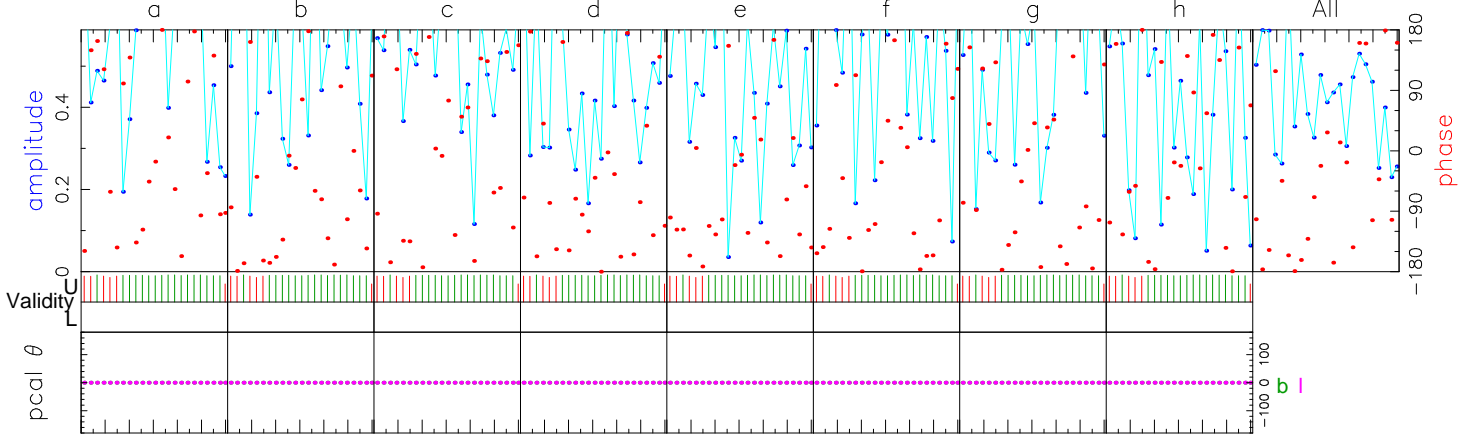
	RMS	Theor.	Amplitude	0.208 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	67.4	25.8	Search (2048X32)	0.205	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	109.9	45.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	56.6	15.2	Inc. seg. avg.	0.368	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	49.8	26.6	Inc. frq. avg.	0.297	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 284.8 el 45.4 pa 55.3 I: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 10490.048 2900.544 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BI..193QBF Output file: /Exps/c201d/v1/1234/No0057/BI.W.28.193QBF



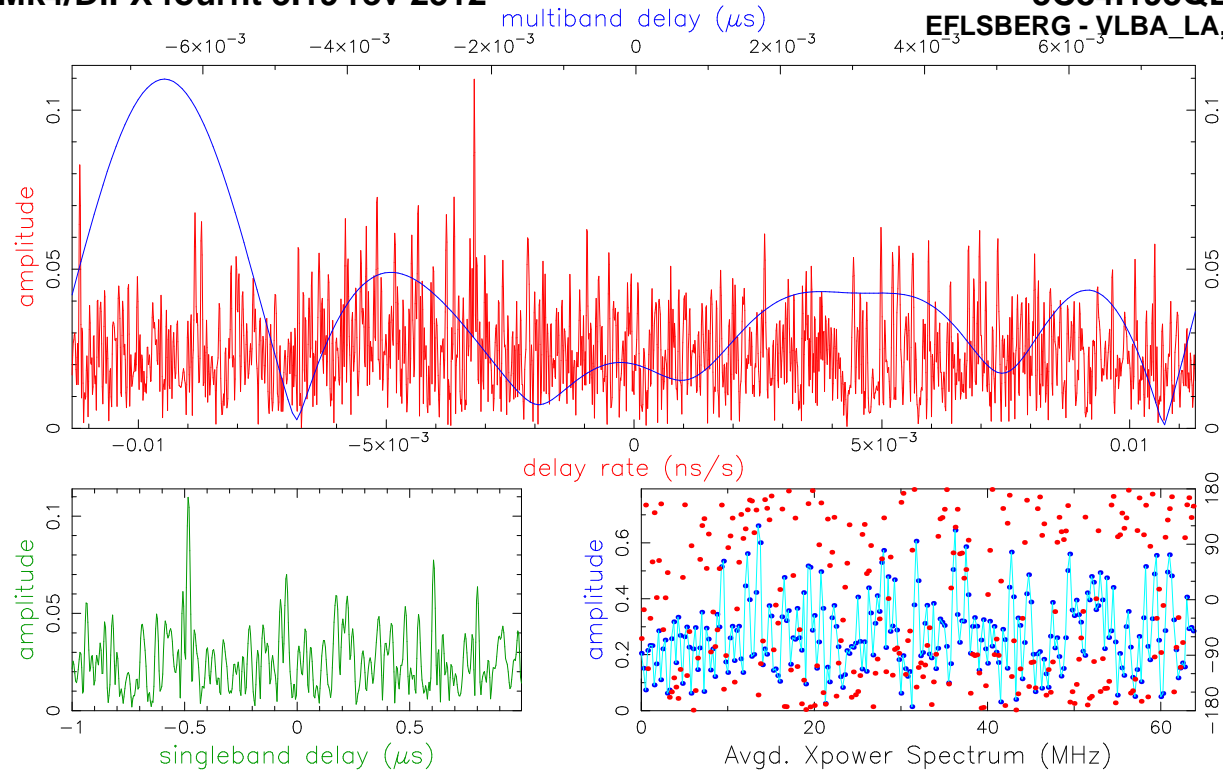
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	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	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-1.31220981769E+03									
Sband delay (usec)	-1.31220941084E+03									
Phase delay (usec)	-1.31220871847E+03									
Delay rate (us/s)	-1.52336930246E-02									
Total phase (deg)			-3.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

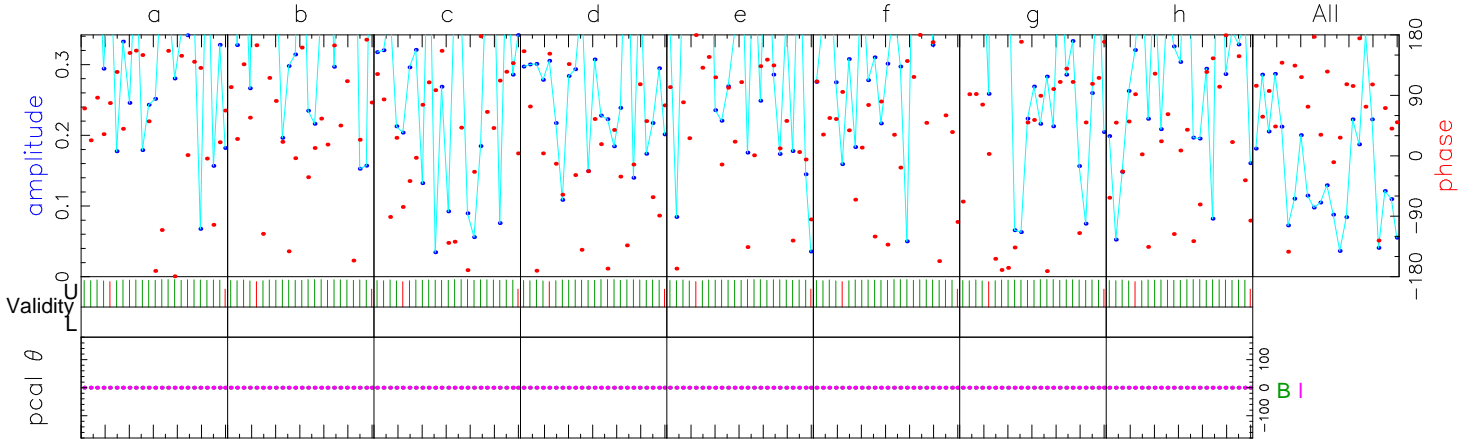
b: az 75.0 el 47.2 pa -59.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 138.100 2381.598 simultaneous interpolator

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



Fringe quality 0
SNR 5.6
Int time 350.998
Amp 0.114
Phase 92.8
PFD 9.8e-01
Delays (us)
SBD -0.483452
MBD -0.006508
Fringe rate (Hz)
-0.278385
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

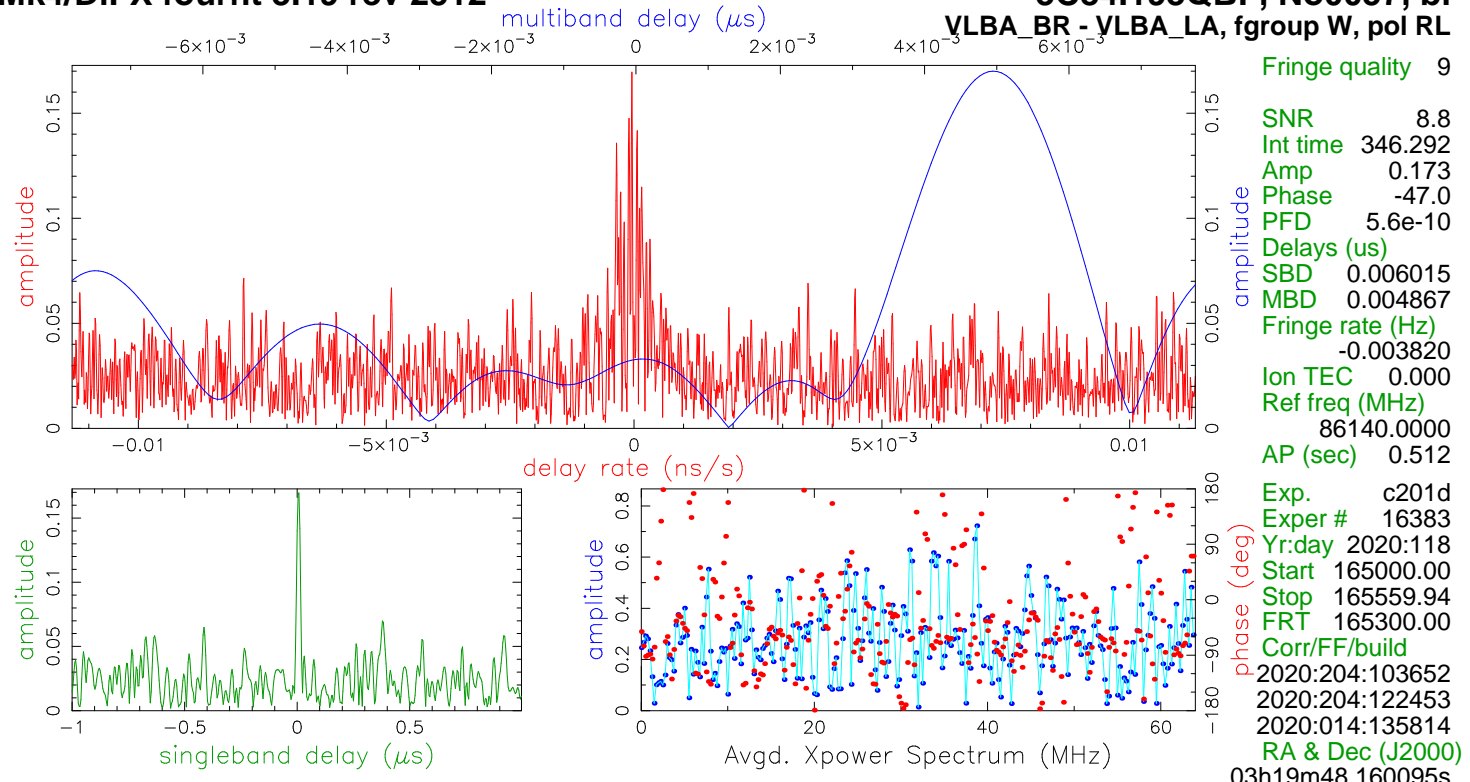


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.01614349189E+03									
Sband delay (usec)	-2.01613606125E+03									
Phase delay (usec)	-2.01565260601E+03									
Delay rate (us/s)	-1.36645693092E+00									
Total phase (deg)			-173.3							
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)									92.8	+/- 20.3
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

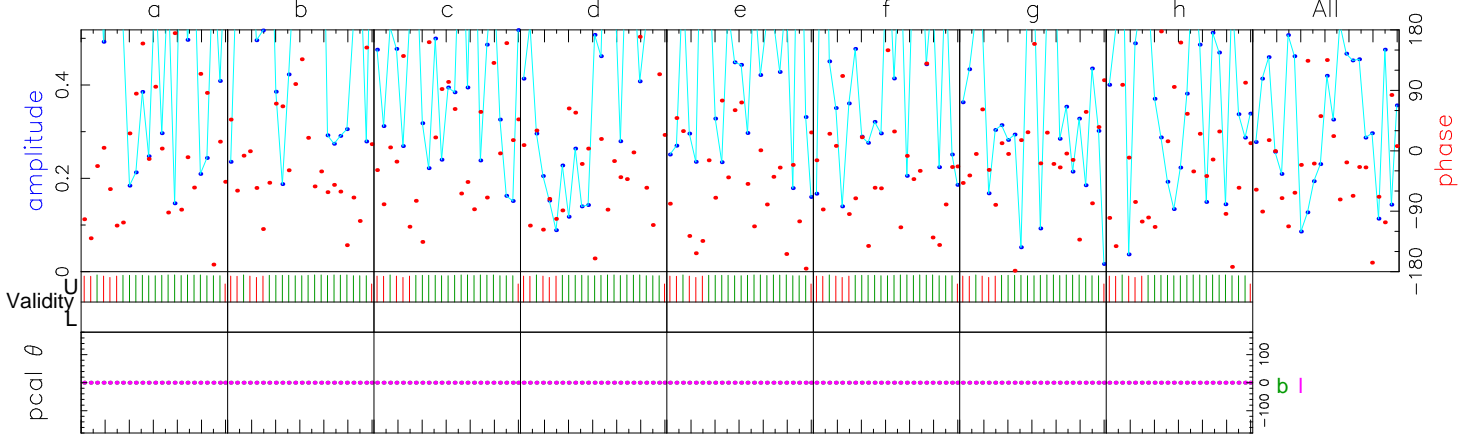
ph/seg (deg) 60.3 48.6 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 84.1 84.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 27.8 28.7 Inc. seg. avg. 0.117 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 48.8 50.1 Inc. frq. avg. 0.109 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 284.8 el 45.4 pa 55.3 I: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 10490.048 2900.544 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BI..193QBF Output file: /Exps/c201d/v1/1234/No0057/BI.W.47.193QBF

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

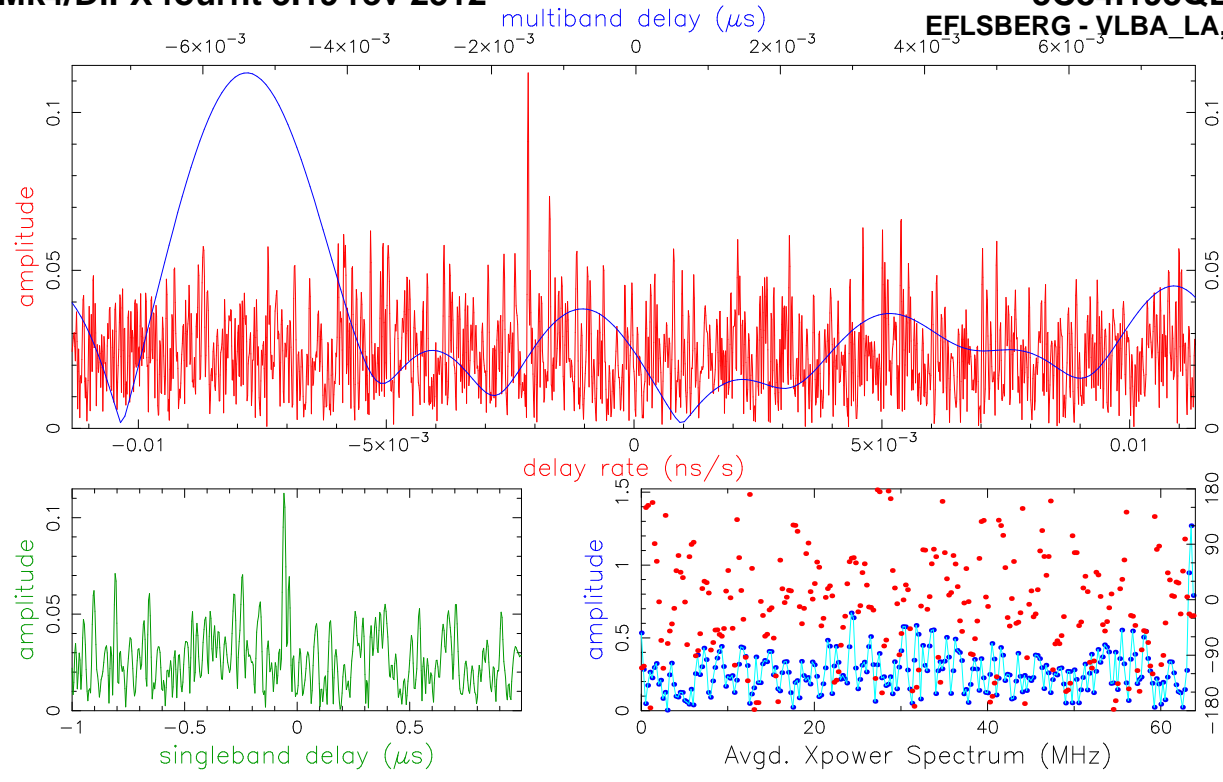


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.8	-32.8	-39.2	-43.7	-63.1	-65.0	-6.9	-60.2	Phase	-47.0
	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	258.4	259.0	356.4	489.4	259.5	258.6	258.0	396.0	Sbd box	258.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	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	Mani 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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
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			

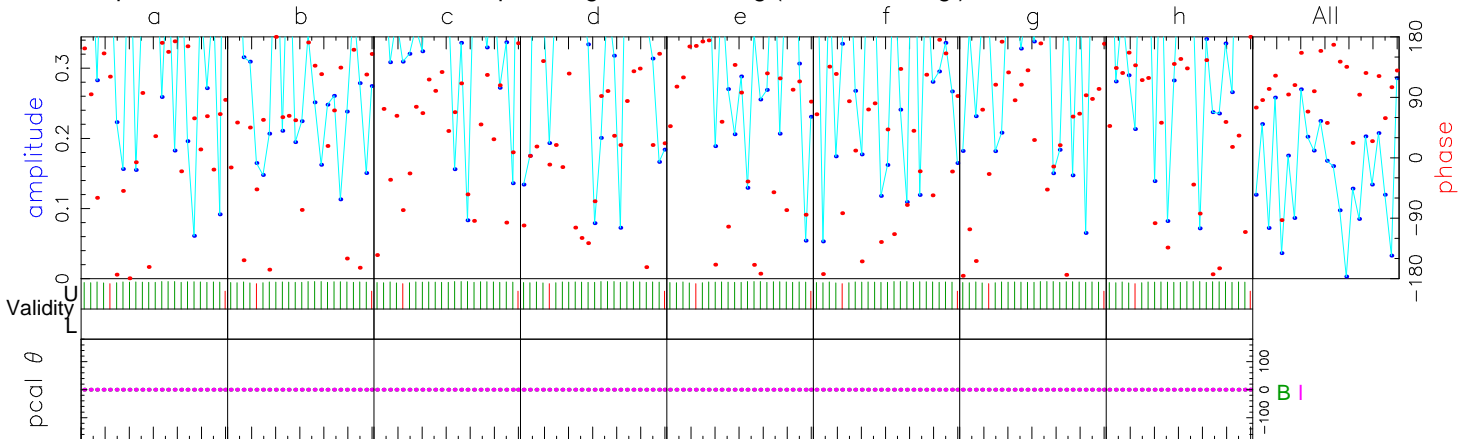
b: az 75.0 el 47.2 pa -59.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 138.100 2381.598 simultaneous interpolator

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



Fringe quality 0
SNR 5.8
Int time 350.998
Amp 0.115
Phase 107.3
PFD 8.1e-01
Delays (us)
SBD -0.057705
MBD -0.005402
Fringe rate (Hz)
-0.184314
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

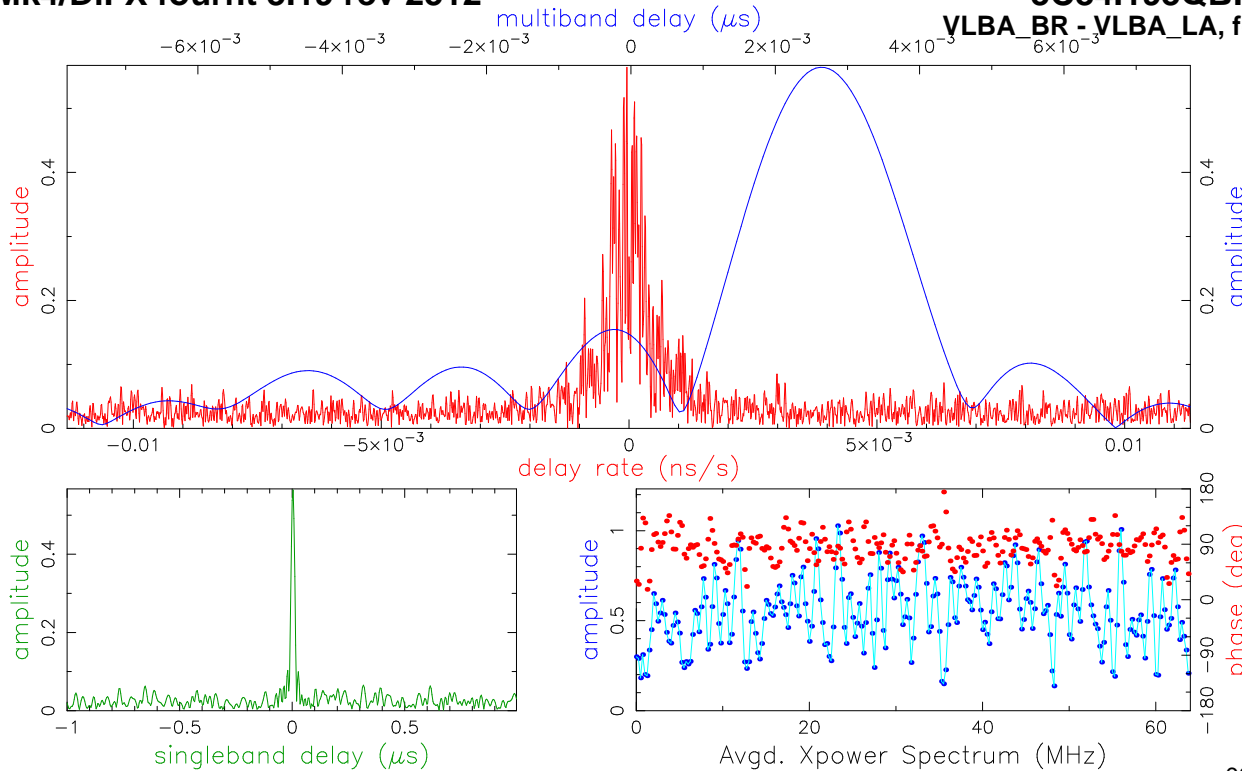


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.01570488610E+03									
Sband delay (usec)	-2.01571031425E+03									
Phase delay (usec)	-2.01565260554E+03									
Delay rate (us/s)	-1.36645583885E+00									
Total phase (deg)			-158.9							
Apriori delay (usec)					-2.01565260900E+03					
Apriori clock (usec)					1.6755497E+01					
Apriori clockrate (us/s)					-4.8999999E-08					
Apriori rate (us/s)					-1.36645369914E+00					
Apriori accel (us/s/s)					2.48312086431E-05					
Resid mbdelay (usec)									-5.40210E-03	+/- 1.9E-04
Resid sbdelay (usec)									-5.77052E-02	+/- 1.5E-03
Resid phdelay (usec)									3.45962E-06	+/- 6.4E-07
Resid rate (us/s)									-2.13970E-06	+/- 3.1E-09
Resid phase (deg)									107.3	+/- 19.8
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000							
Bits/sample:	2x2		SampCntNorm: enabled mb window (us) -0.008 0.008							
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							
nlags:	256		t_cohere infinite							

ph/seg (deg) 51.1 47.4 Search (2048X32) 0.110
amp/seg (%) 73.3 82.7 Interp. 0.000
ph/frq (deg) 23.8 27.9 Inc. seg. avg. 0.113
amp/frq (%) 25.1 48.8 Inc. frq. avg. 0.108
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate (MSamp/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 284.8 el 45.4 pa 55.3 I: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 10490.048 2900.544 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BI..193QBF Output file: /Exps/c201d/v1/1234/No0057/BI.W.67.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

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

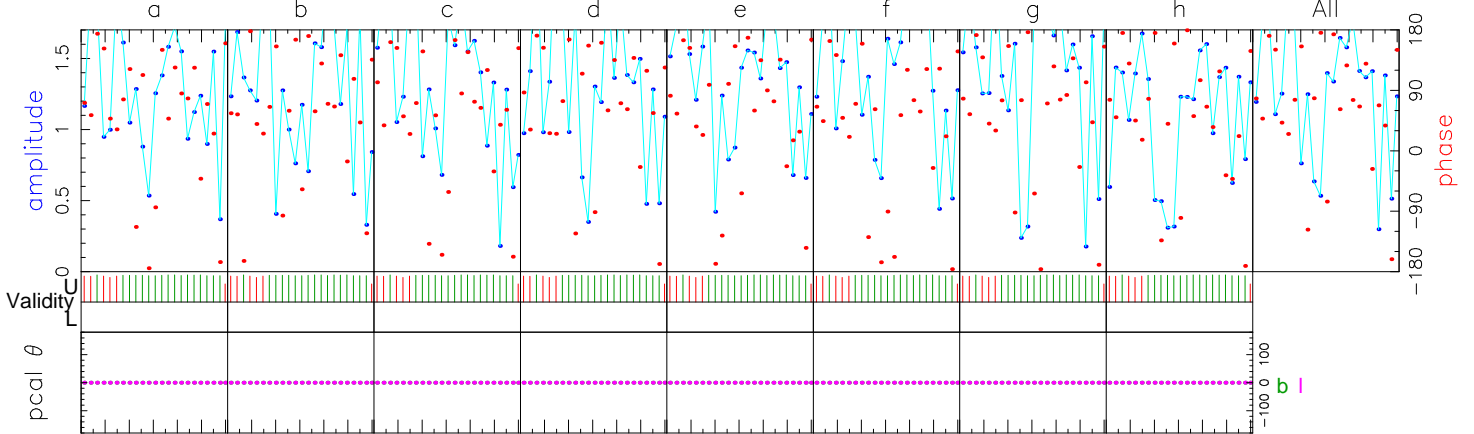


Fringe quality 7

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)			Apriori accel (us/s/s)		1.89702344882E-05		Resid phase (deg)		88.9	+/- 4.0

ph/seg (deg) 74.2 9.5
amp/seg (%) 148.7 16.6
ph/frq (deg) 9.6 5.6
amp/frq (%) 10.1 9.8

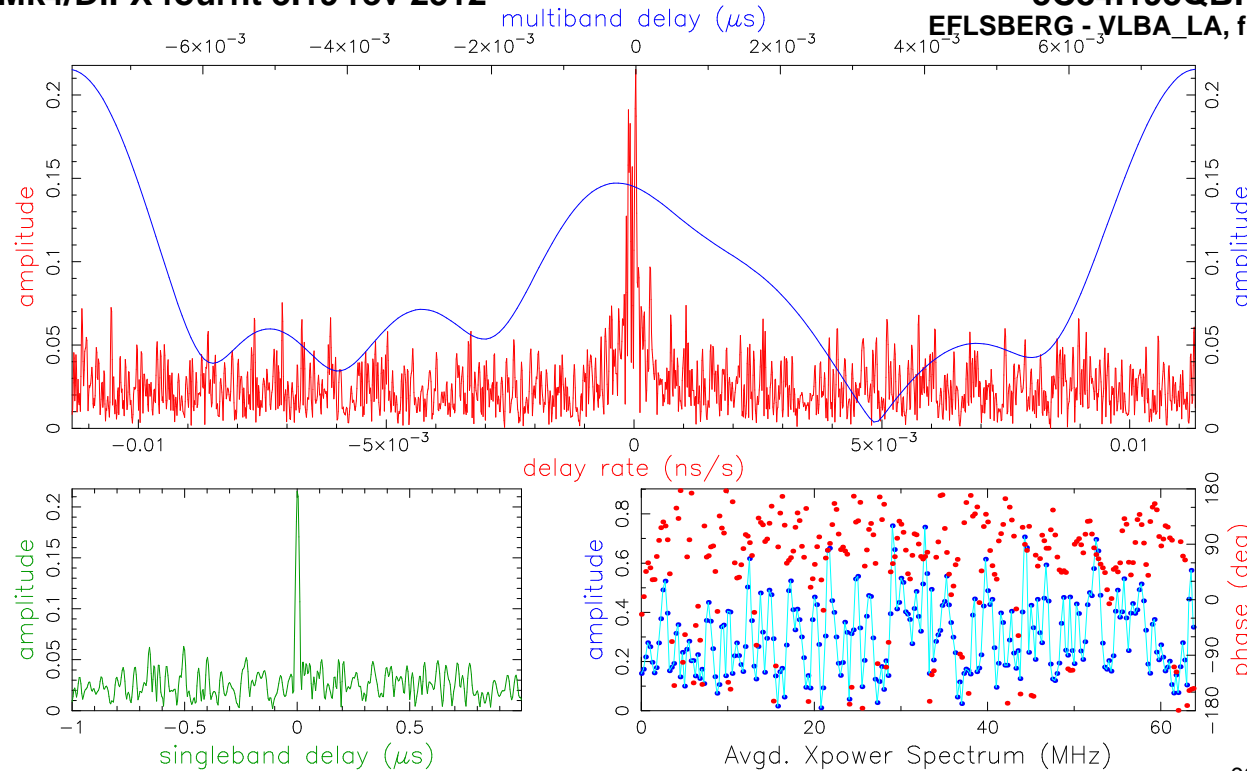
RMS Theor. Amplitude 0.567 +/- 0.020
Search (2048X32) 0.554
Interp. 0.000
Inc. seg. avg. 1.263
Inc. frq. avg. 0.568

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

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

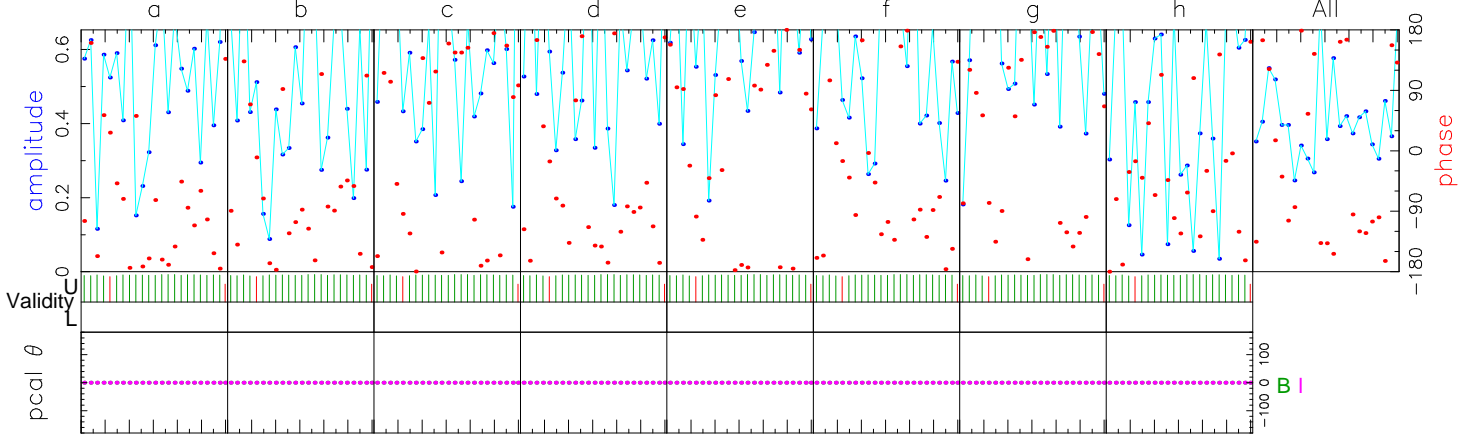
b: az 75.0 el 47.2 pa -59.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 138.100 2381.598 simultaneous interpolator

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



Fringe quality 9
SNR 11.2
Int time 350.998
Amp 0.218
Phase -154.2
PFD 3.1e-20
Delays (us)
SBD 0.001441
MBD -0.007820
Fringe rate (Hz) 0.003334
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		
B:I	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

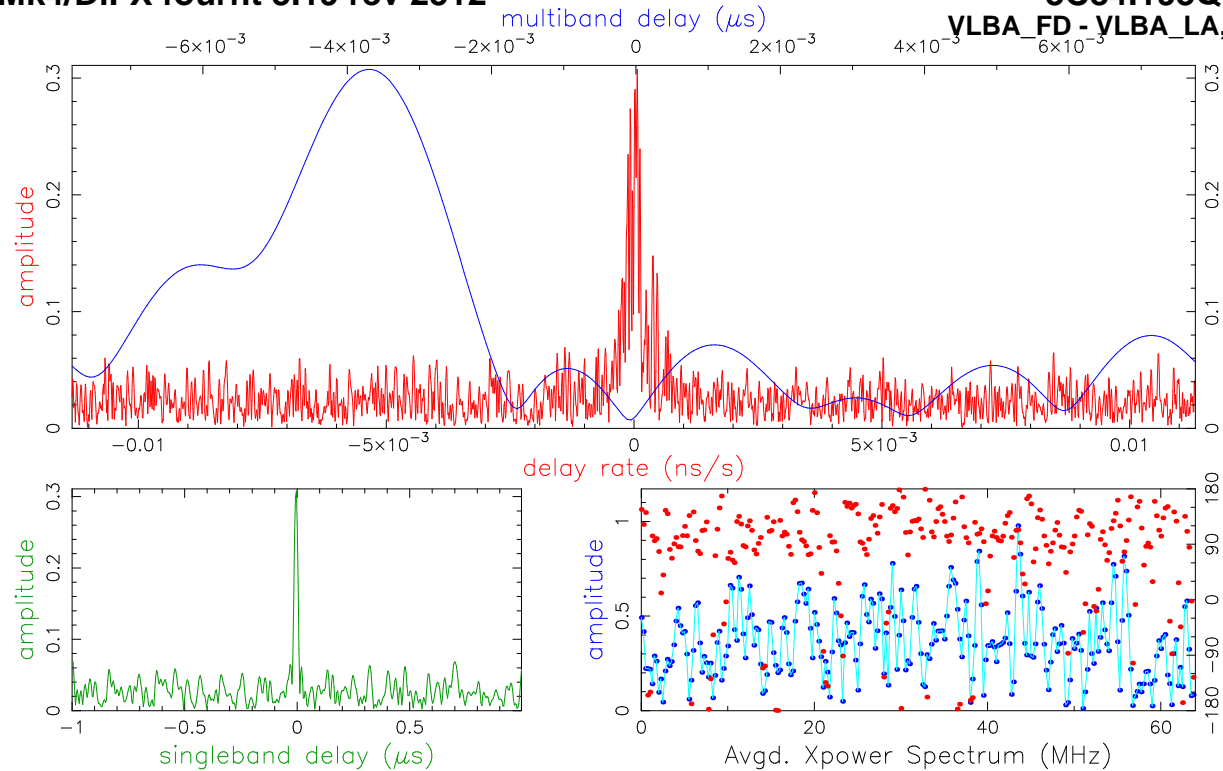
Group delay (usec)(sbd)	-2.01564480425E+03	Apriori delay (usec)	-2.01565260900E+03	Resid mbdelay (usec)	-7.82025E-03	+/-	9.7E-05
Sband delay (usec)	-2.01565116825E+03	Apriori clock (usec)	1.6755497E+01	Resid sbdelay (usec)	1.44075E-03	+/-	7.7E-04
Phase delay (usec)	-2.01565261397E+03	Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	-4.97303E-06	+/-	3.3E-07
Delay rate (us/s)	-1.36645366044E+00	Apriori rate (us/s)	-1.36645369914E+00	Resid rate (us/s)	3.87078E-08	+/-	1.6E-09
Total phase (deg)	-60.4	Apriori accel (us/s/s)	2.48312086431E-05	Resid phase (deg)	-154.2	+/-	10.3

ph/seg (deg)	68.5	RMS	24.6	Theor.	Amplitude	0.218 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	103.8	Search (2048X32)	0.209	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.000E+00		sb window (us)	-1.000	1.000
ph/frq (deg)	49.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		mb window (us)	-0.008	0.008
amp/frq (%)	42.5	Inc. seg. avg.	0.379	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011
		Inc. frq. avg.	0.274	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 284.8 el 45.4 pa 55.3 I: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 10490.048 2900.544 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BI..193QBF Output file: /Exps/c201d/v1/1234/No0057/BI.W.9.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fl
VLBA_FD - VLBA_LA, fgroup W, pol LR

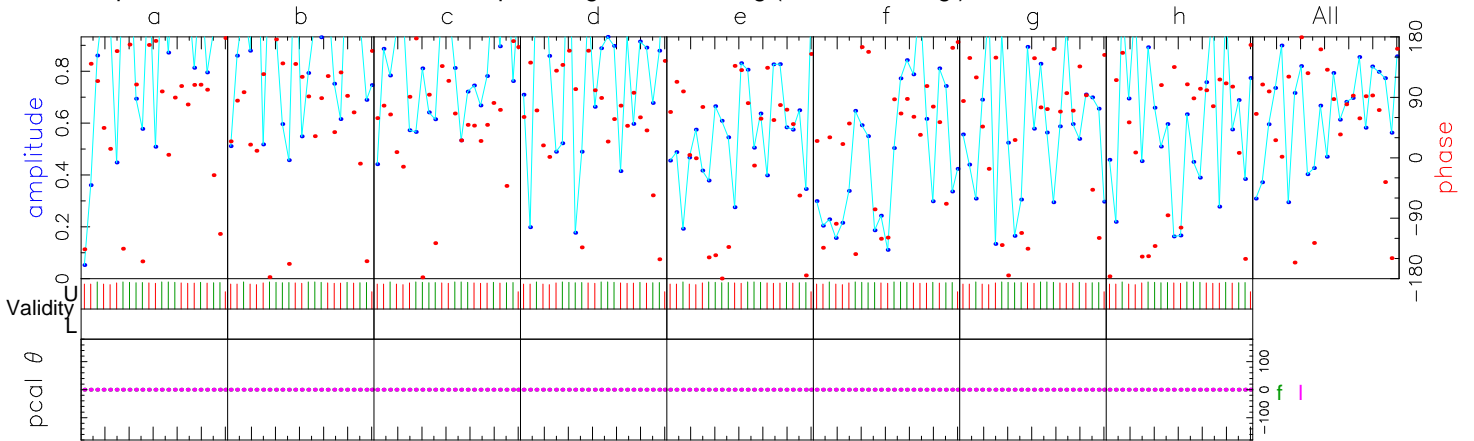


Fringe quality 9

SNR 15.7
Int time 341.973
Amp 0.311
Phase 96.8
PFD 0.0e+00
Delays (us)
SBD -0.005291
MBD -0.003721
Fringe rate (Hz) 0.005550
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

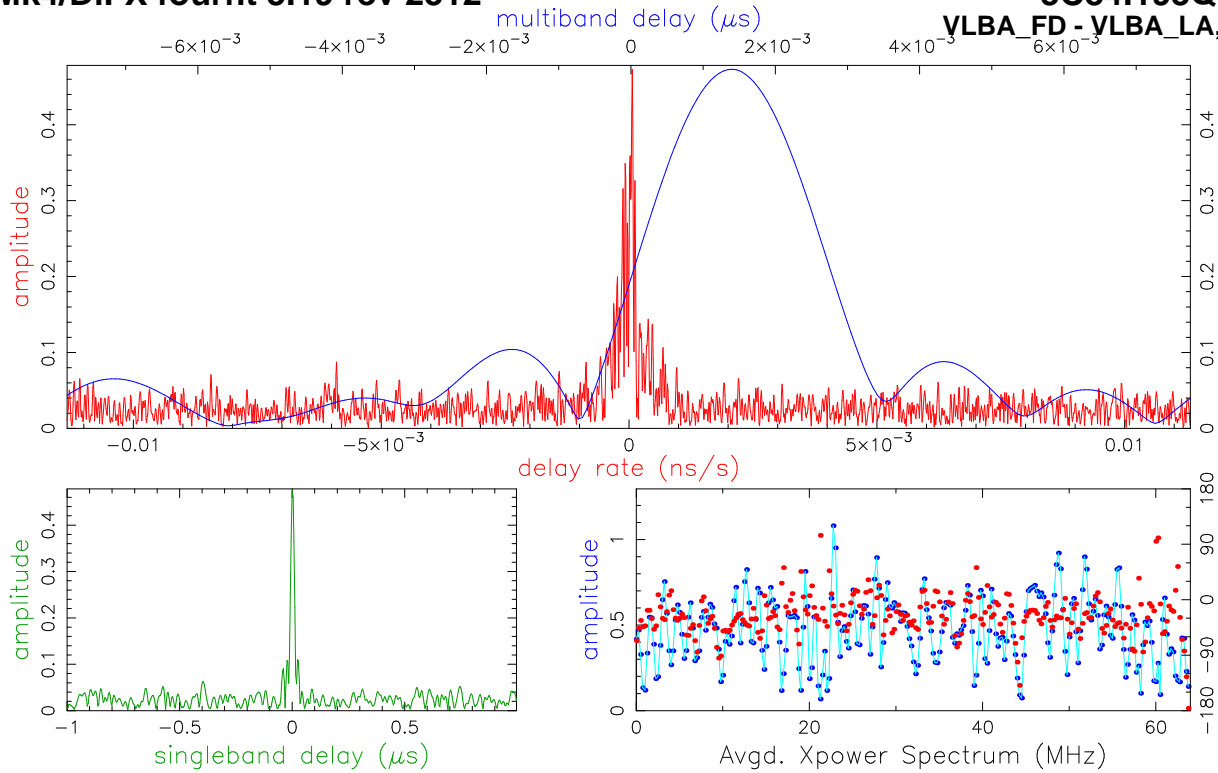
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122508
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.23513821061E+02									
Sband delay (usec)	-1.23515390967E+02									
Phase delay (usec)	-1.23510096846E+02									
Delay rate (us/s)	1.37088198320E-02									
Total phase (deg)			92.8							
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)									96.8	+/- 7.3
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 66.1 17.5 Search (2048X32) 0.302 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 120.1 30.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 19.9 10.3 Inc. seg. avg. 0.610 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.8 18.0 Inc. frq. avg. 0.317 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 60.3 el 52.1 pa -91.3 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -110.097 -839.319 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fl..193QBF Output file: /Exps/c201d/v1/1234/No0057/fl.W.125.193QBF

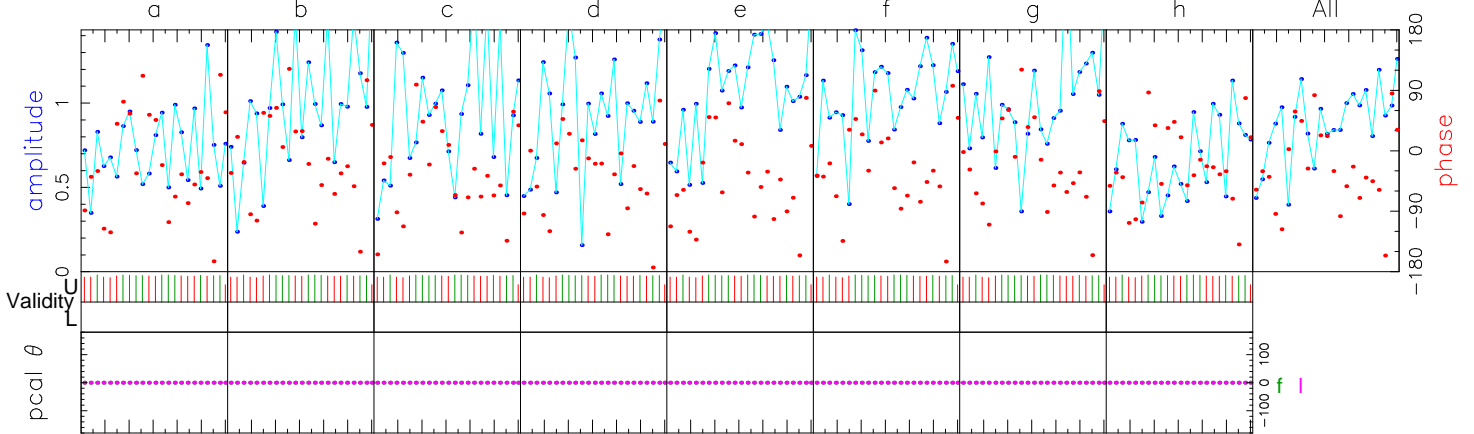


Fringe quality 7

SNR 24.2
Int time 341.975
Amp 0.478
Phase -27.1
PFD 0.0e+00
Delays (us)
SBD 0.001345
MBD 0.001429
Fringe rate (Hz) 0.005608
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
2020:204:122512
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

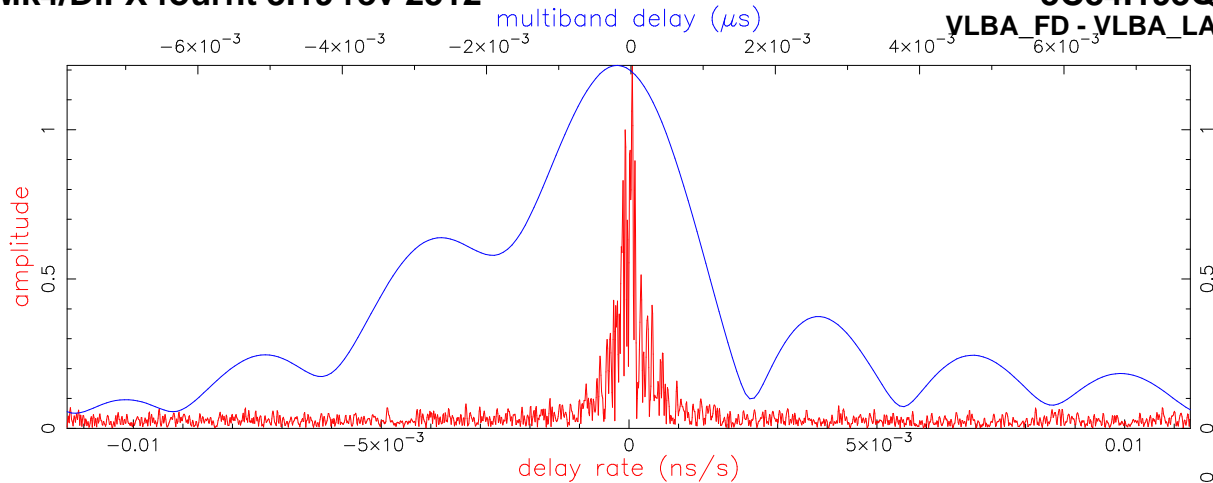
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.1	-11.2	-32.2	-30.2	-39.9	-20.4	-26.0	-29.6	Phase	-27.1
	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.4	Ampl.	0.5
	258.1	257.7	257.2	257.3	256.8	257.3	257.4	257.7	Sbd box	257.3
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.23508670499E+02								Resid mbdelay (usec)	1.42947E-03 +/- 4.5E-05
Sband delay (usec)	-1.23508754717E+02								Resid sbdelay (usec)	1.34525E-03 +/- 3.6E-04
Phase delay (usec)	-1.23510100840E+02								Resid phdelay (usec)	-8.73348E-07 +/- 1.5E-07
Delay rate (us/s)	1.37088205037E-02								Resid rate (us/s)	6.51044E-08 +/- 7.4E-10
Total phase (deg)			-31.1						Resid phase (deg)	-27.1 +/- 4.7
	RMS	Theor.	Amplitude	0.478 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	61.0	11.4	Search (2048X32)	0.471					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	94.2	19.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	9.2	6.7	Inc. seg. avg.	0.859					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	15.8	11.7	Inc. frq. avg.	0.475					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 60.3 el 52.1 pa -91.3			l: az 66.2 el 52.6 pa -83.2						nlags: 256	t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c201d/v1/1234/No0057/fl..193QBF							simultaneous interpolator
			Output file: /Exps/c201d/v1/1234/No0057/fl.W.144.193QBF							

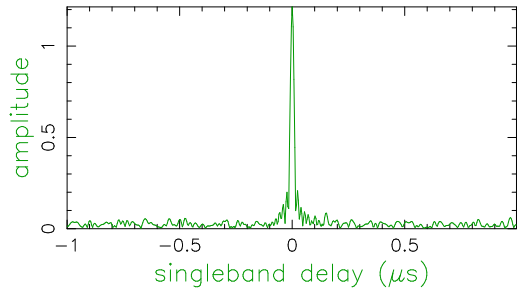
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fl
VLBA_FD - VLBA_LA, fgroup W, pol LL

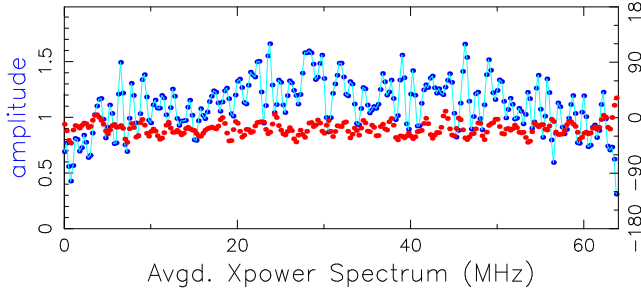


Fringe quality 2

SNR 61.5
Int time 341.973
Amp 1.215
Phase -16.3
PFD 0.0e+00
Delays (us)
SBD -0.000037
MBD -0.000190
Fringe rate (Hz)
0.005576
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

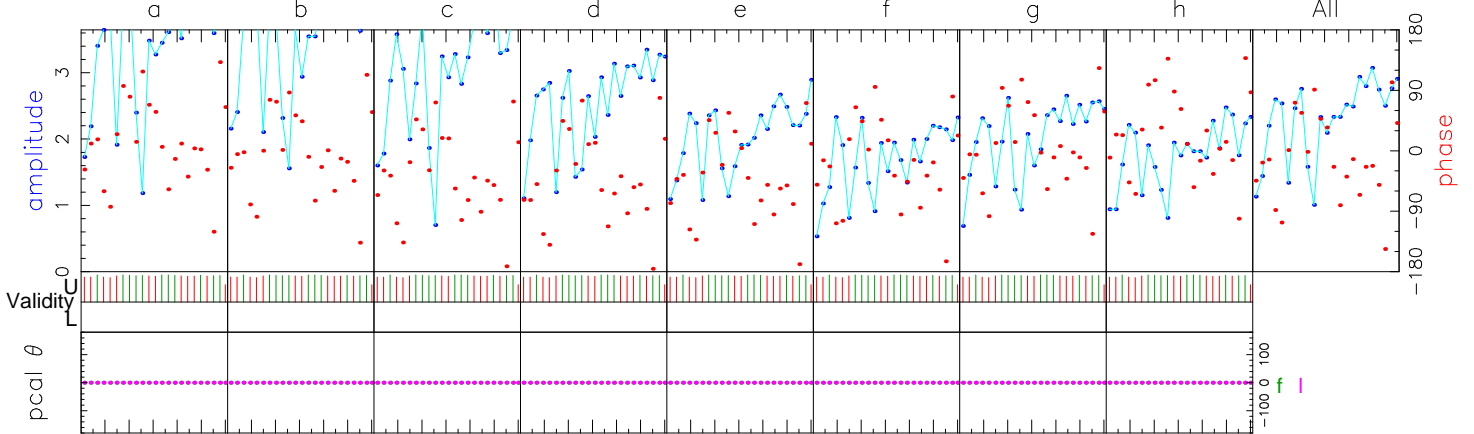


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
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	7.9	-7.3	-41.0	-47.8	-44.6	-20.5	0.7	16.2		
f	1.9	1.9	1.6	1.2	1.1	0.8	1.1	0.9	Phase	-16.3
l	257.2	256.4	256.9	256.7	257.2	257.5	257.1	257.6	Ampl.	1.3
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

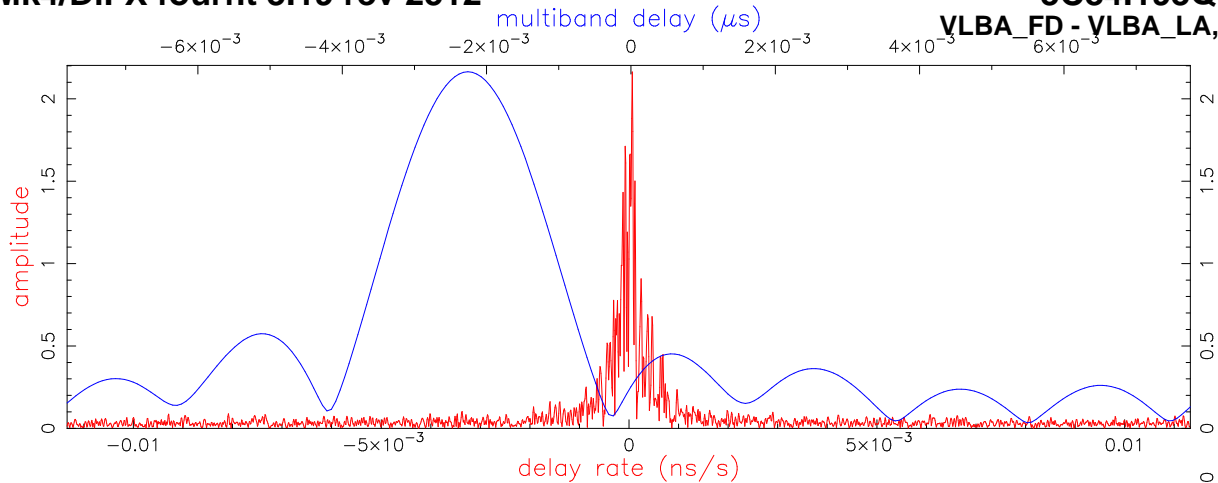
Group delay (usec)(sbd) -1.23510290092E+02 Apriori delay (usec) -1.23510099967E+02 Resid mbdelay (usec) -1.90125E-04 +/- 1.8E-05
 Sband delay (usec) -1.23510137217E+02 Apriori clock (usec) 7.6483469E+00 Resid sbdelay (usec) -3.72500E-05 +/- 1.4E-04
 Phase delay (usec) -1.23510100494E+02 Apriori clockrate (us/s) 2.6000000E-07 Resid phdelay (usec) -5.26786E-07 +/- 6.0E-08
 Delay rate (us/s) 1.37088201360E-02 Apriori rate (us/s) 1.37087553993E-02 Resid rate (us/s) 6.47367E-08 +/- 2.9E-10
 Total phase (deg) -20.3 Apriori accel (us/s/s) -4.91974708465E-06 Resid phase (deg) -16.3 +/- 1.9

RMS Theor. Amplitude 1.215 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 62.1 4.5 Search (2048X32) 1.189 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 100.7 7.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 27.2 2.6 Inc. seg. avg. 2.286 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 34.8 4.6 Inc. frq. avg. 1.319 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 60.3 el 52.1 pa -91.3 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -110.097 -839.319 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fl..193QBF Output file: /Exps/c201d/v1/1234/No0057/fl.W.85.193QBF

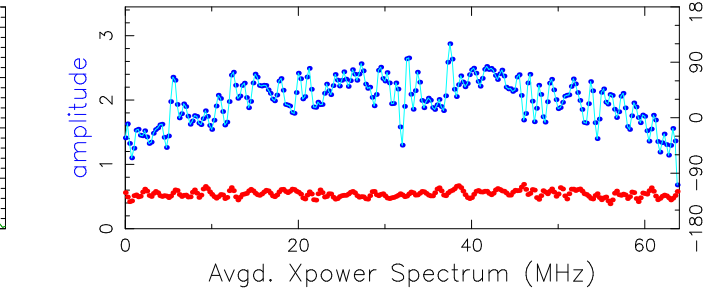
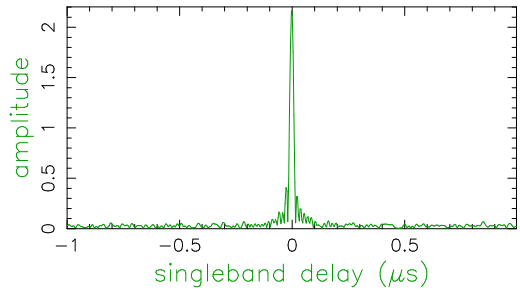
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fl
VLBA_FD - VLBA_LA, fgroup W, pol RR



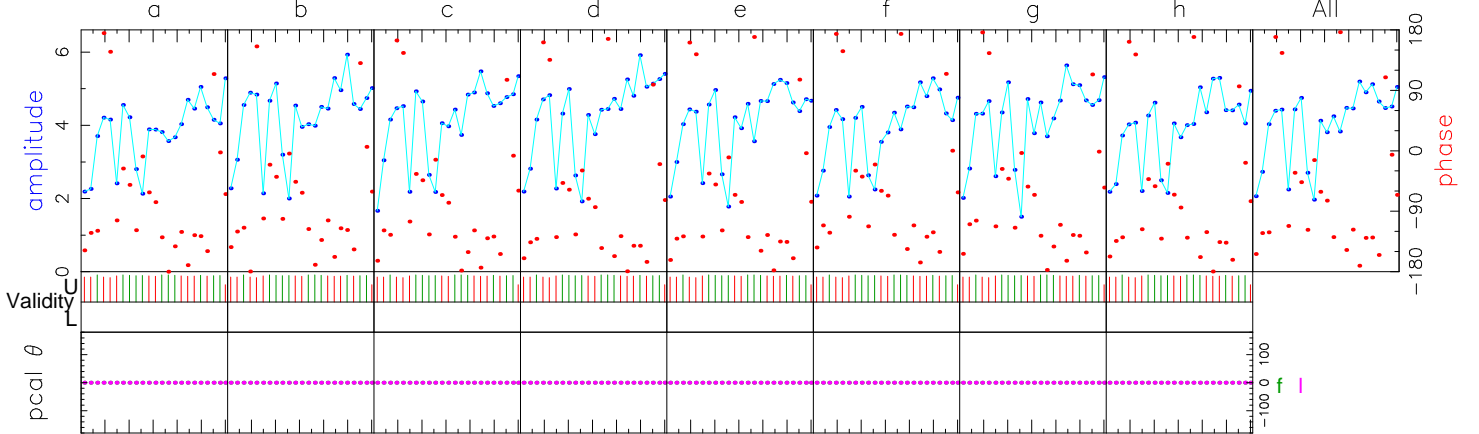
Fringe quality 5

SNR 111.4
Int time 341.975
Amp 2.203
Phase -122.9
PFD 0.0e+00
Delays (us)
SBD -0.002155
MBD -0.002218
Fringe rate (Hz)
0.005595
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
2020:204:122502
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

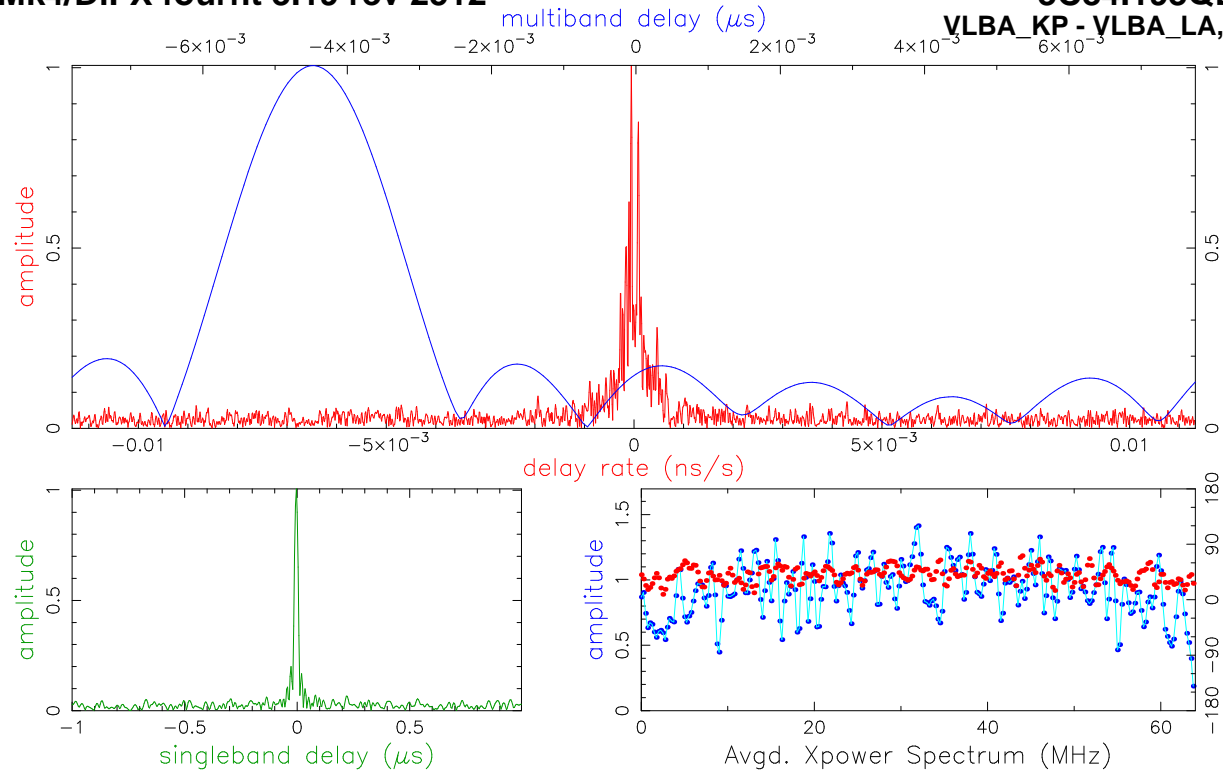


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.0	-111.8	-122.5	-134.8	-128.4	-119.5	-116.1	-130.1	Phase	-122.9
	2.1	2.3	2.1	2.3	2.2	2.1	2.2	2.1	Ampl.	2.2
	256.8	256.2	256.2	256.5	256.3	256.5	256.5	256.5	Sbd box	256.4
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	-1.23512317936E+02		Apriori delay (usec)		-1.23510099967E+02		Resid mbdelay (usec)		-2.21797E-03	+/- 9.7E-06
Sband delay (usec)	-1.23512255217E+02		Apriori clock (usec)		7.6483469E+00		Resid sbdelay (usec)		-2.15525E-03	+/- 7.7E-05
Phase delay (usec)	-1.23510103929E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-3.96235E-06	+/- 3.3E-08
Delay rate (us/s)	1.37088203570E-02		Apriori rate (us/s)		1.37087553993E-02		Resid rate (us/s)		6.49577E-08	+/- 1.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.91974708465E-06		Resid phase (deg)		-122.9	+/- 1.0

RMS Theor. Amplitude 2.203 +/- 0.020
 ph/seg (deg) 61.7 2.5 Search (2048X32) 2.128 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 93.2 4.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.3 1.5 Inc. seg. avg. 4.013 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 3.7 2.5 Inc. frq. avg. 2.180 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -110.097 -839.319 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fl..193QBF Output file: /Exps/c201d/v1/1234/No0057/fl.W.97.193QBF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kl
VLBA_KP - VLBA_LA, fgroup W, pol RR

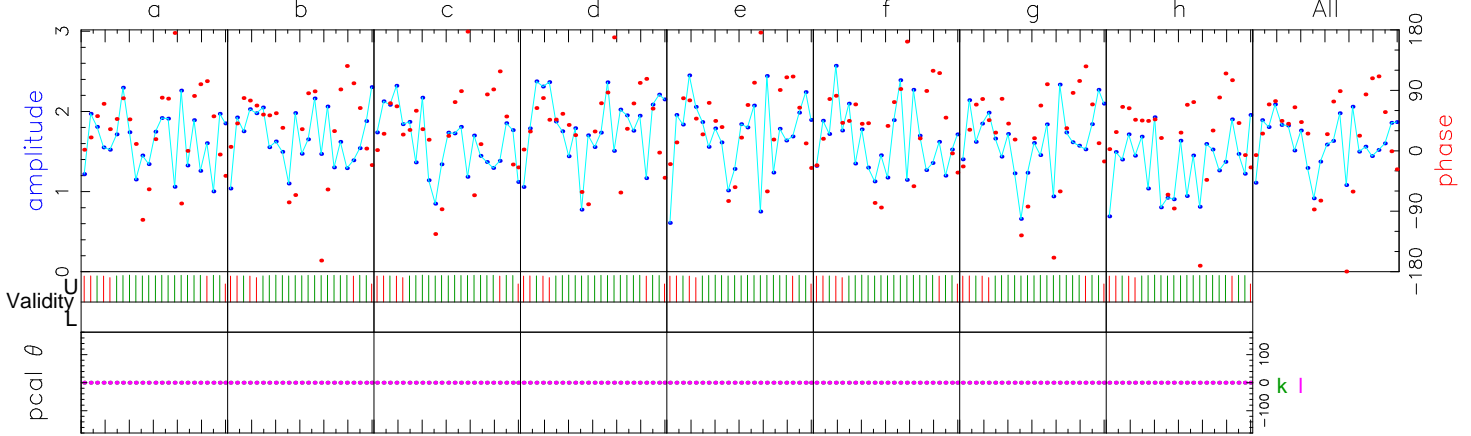


Fringe quality 5

SNR 51.1
Int time 344.430
Amp 1.006
Phase 43.6
PFD 0.0e+00
Delays (us)
SBD -0.004227
MBD -0.004481
Fringe rate (Hz)
-0.004467
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
2020:204:122508
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



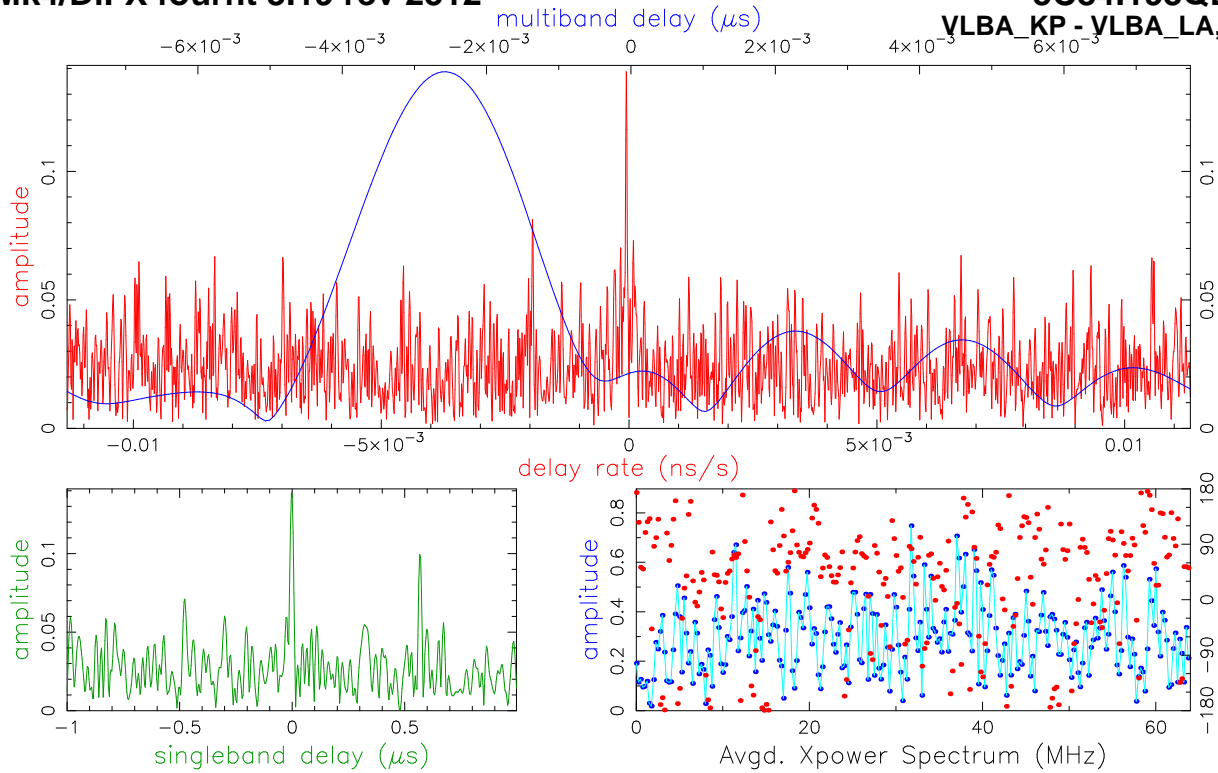
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.34204752360E+03									
Sband delay (usec)	-1.34204726902E+03									
Phase delay (usec)	-1.34204304111E+03									
Delay rate (us/s)	9.10283906085E-02									
Total phase (deg)			-202.2							
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								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

k: az 61.4 el 47.0 pa -85.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -692.489 -151.855 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kl..193QBF Output file: /Exps/c201d/v1/1234/No0057/kl.W.123.193QBF

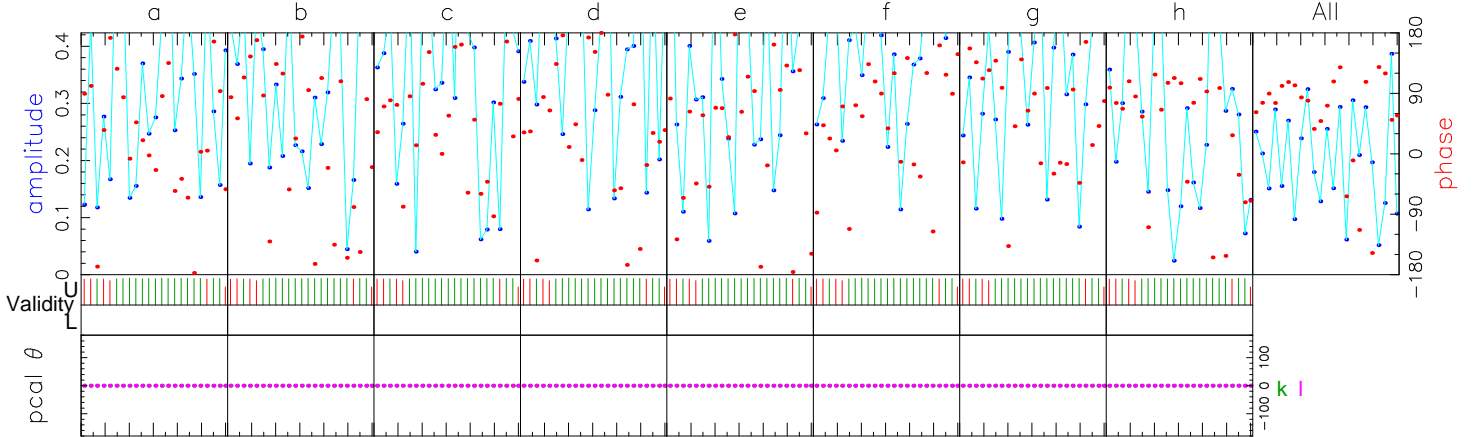
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kl
VLBA_KP - VLBA_LA, fgroup W, pol LR



Fringe quality 0
SNR 7.2
Int time 344.430
Amp 0.141
Phase 81.5
PFD 2.4e-04
Delays (us)
SBD -0.002194
MBD -0.002564
Fringe rate (Hz)
-0.004700
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
2020:204:122511
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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

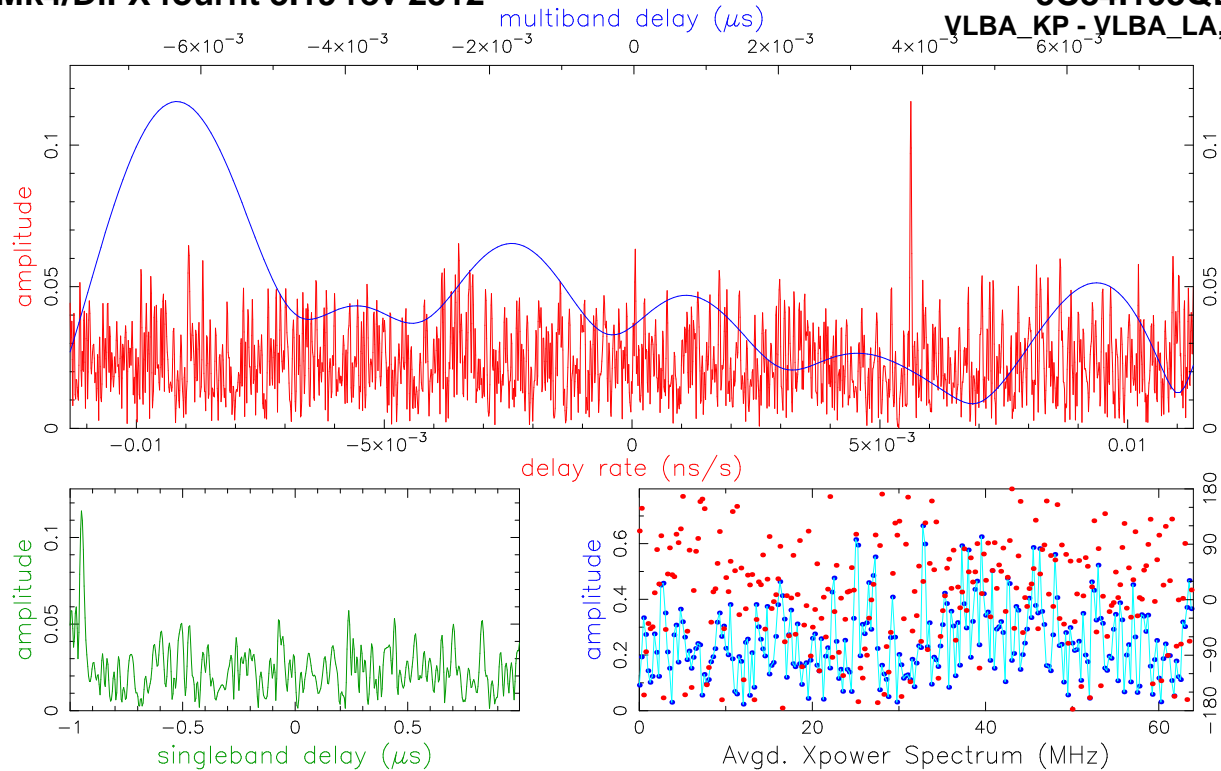
Group delay (usec)(sbd)	-1.34204560663E+03	Apriori delay (usec)	-1.34204304252E+03	Resid mbdelay (usec)	-2.56411E-03	+/-	1.5E-04
Sband delay (usec)	-1.34204523677E+03	Apriori clock (usec)	3.3899102E+00	Resid sbdelay (usec)	-2.19425E-03	+/-	1.2E-03
Phase delay (usec)	-1.34204303989E+03	Apriori clockrate (us/s)	1.5640000E-07	Resid phdelay (usec)	2.62744E-06	+/-	5.2E-07
Delay rate (us/s)	9.10283879067E-02	Apriori rate (us/s)	9.10284424678E-02	Resid rate (us/s)	-5.45611E-08	+/-	2.5E-09
Total phase (deg)	-164.3	Apriori accel (us/s/s)	3.01293885354E-06	Resid phase (deg)	81.5	+/-	16.0

ph/seg (deg)	62.4	Theor.	38.3	Amplitude	0.141 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	77.7		66.9	Search (2048X32)	0.138	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	22.8		22.6	Inc. seg. avg.	0.170	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	24.0		39.5	Inc. frq. avg.	0.135	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

k: az 61.4 el 47.0 pa -85.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -692.489 -151.855 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kl..193QBF Output file: /Exps/c201d/v1/1234/No0057/kl.W.142.193QBF

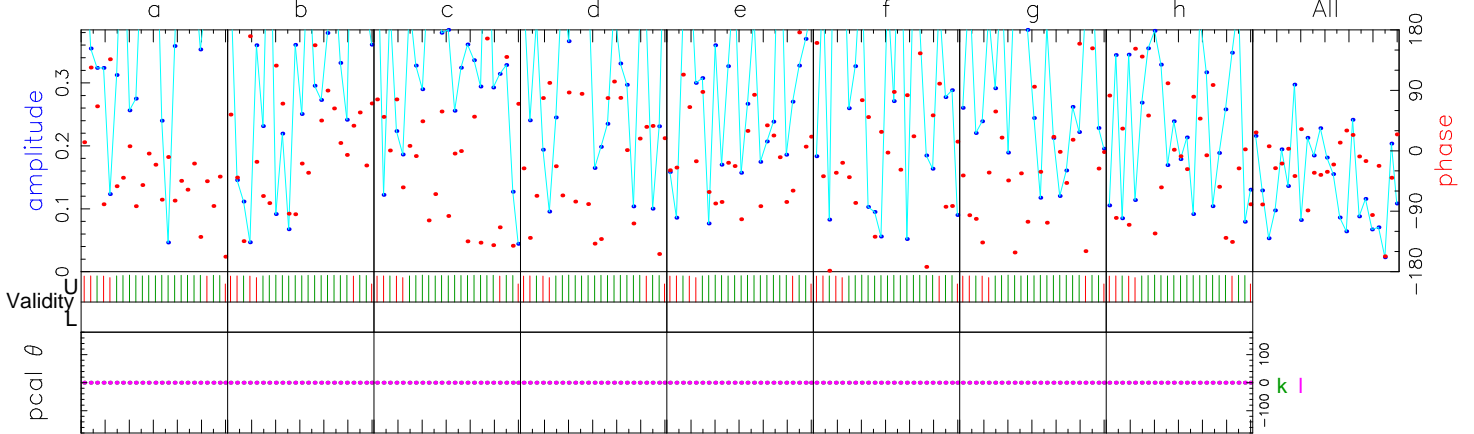
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kl
VLBA_KP - VLBA_LA, fgroup W, pol RL



Fringe quality 0
SNR 5.9
Int time 344.430
Amp 0.128
Phase -21.3
PFD 6.8e-01
Delays (us)
SBD -0.948713
MBD -0.006338
Fringe rate (Hz) 0.484918
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
2020:204:122515
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

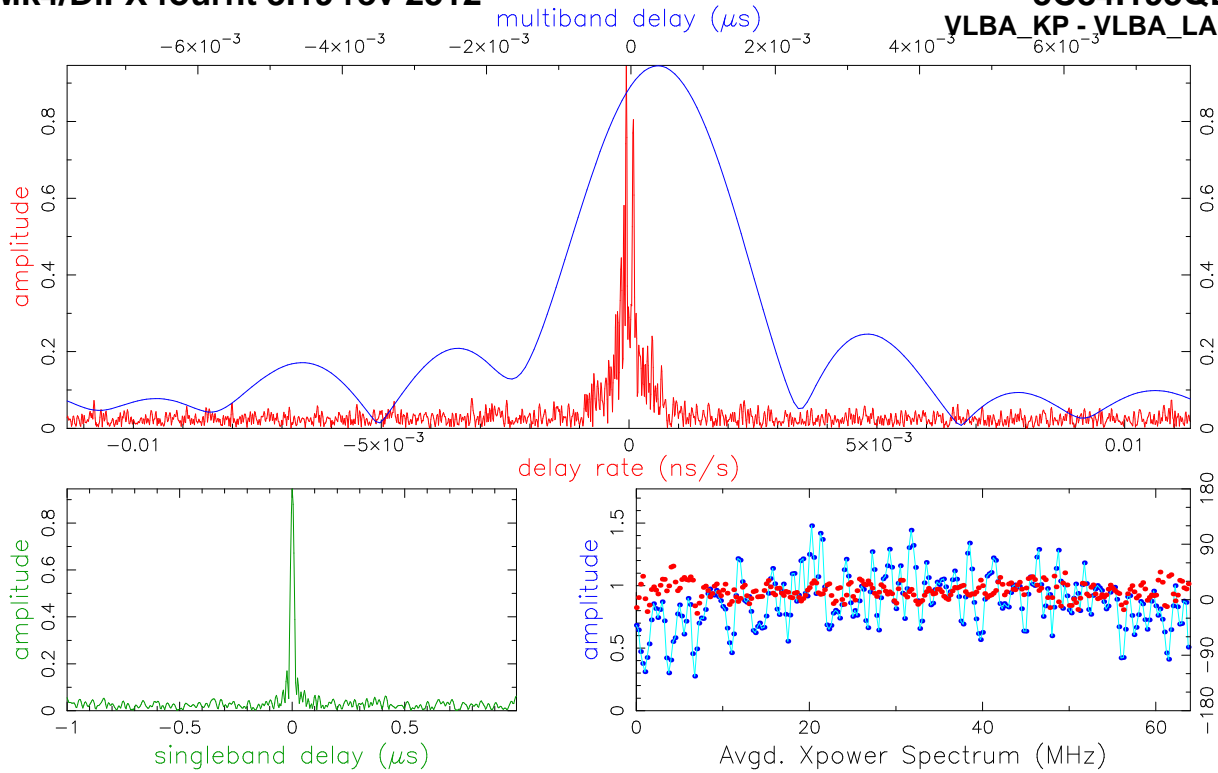


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.34298688058E+03	Apriori delay (usec)	-1.34204304252E+03	Resid mbdelay (usec)	-6.33806E-03	+/-	1.9E-04
Sband delay (usec)	-1.34299175577E+03	Apriori clock (usec)	0.110	Resid sbdelay (usec)	-9.48713E-01	+/-	1.5E-03
Phase delay (usec)	-1.34204304321E+03	Apriori clockrate (us/s)	1.5640000E-07	Resid phdelay (usec)	-6.87329E-07	+/-	6.3E-07
Delay rate (us/s)	9.10340718809E-02	Apriori rate (us/s)	9.10284424678E-02	Resid rate (us/s)	5.62941E-06	+/-	3.0E-09
Total phase (deg)	-267.1	Apriori accel (us/s/s)	3.01293885354E-06	Resid phase (deg)	-21.3	+/-	19.5

ph/seg (deg)	45.8	Theor.	46.9	Amplitude	0.128 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.3		81.8	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	29.4		27.6	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	62.2		48.2	Inc. seg. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.127		t_cohere infinite			

k: az 61.4 el 47.0 pa -85.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -692.489 -151.855 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kl..193QBF Output file: /Exps/c201d/v1/1234/No0057/kl.W.157.193QBF

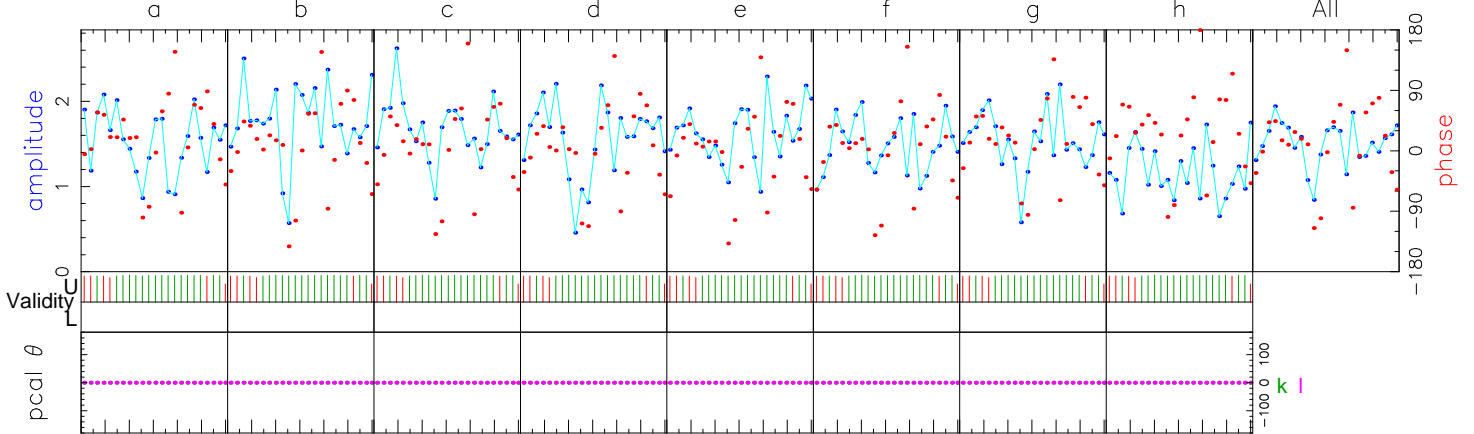


Fringe quality 5

SNR 48.0
Int time 344.430
Amp 0.946
Phase 14.9
PFD 0.0e+00
Delays (us)
SBD 0.000450
MBD 0.000380
Fringe rate (Hz) -0.004485
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
2020:204:122503
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



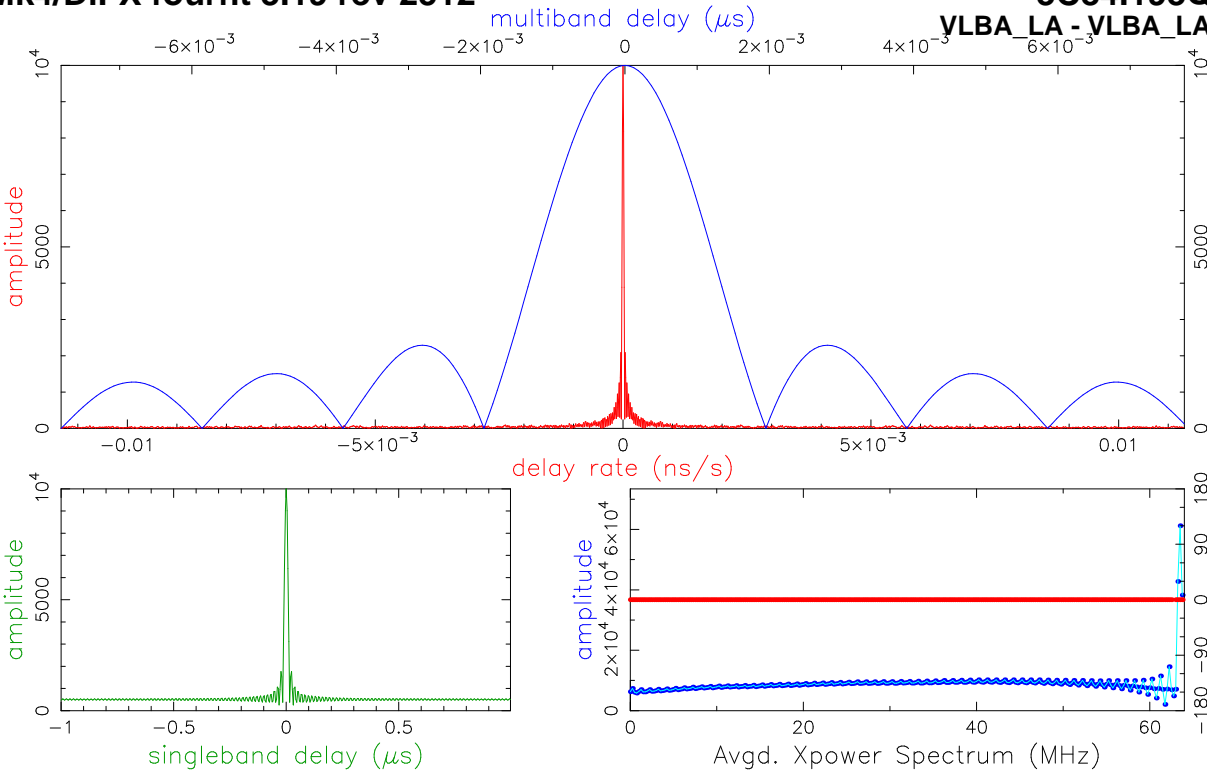
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.34204266244E+03	Apriori delay (usec)	-1.34204304252E+03	Resid mbdelay (usec)	3.80081E-04	+/-	2.3E-05
Sband delay (usec)	-1.34204259202E+03	Apriori clock (usec)	3.3899102E+00	Resid sbdelay (usec)	4.50500E-04	+/-	1.8E-04
Phase delay (usec)	-1.34204304204E+03	Apriori clockrate (us/s)	1.5640000E-07	Resid phdelay (usec)	4.81846E-07	+/-	7.7E-08
Delay rate (us/s)	9.10283903959E-02	Apriori rate (us/s)	9.10284424678E-02	Resid rate (us/s)	-5.20719E-08	+/-	3.7E-10
Total phase (deg)	-230.8	Apriori accel (us/s/s)	3.01293885354E-06	Resid phase (deg)	14.9	+/-	2.4

	RMS	Theor.	Amplitude	0.946 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.2	5.7	Search (2048X32)	0.922	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.7	10.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	10.5	3.4	Inc. seg. avg.	1.497	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	11.6	5.9	Inc. frq. avg.	0.955	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

k: az 61.4 el 47.0 pa -85.5 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -692.489 -151.855 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kl..193QBF Output file: /Exps/c201d/v1/1234/No0057/kl.W.99.193QBF

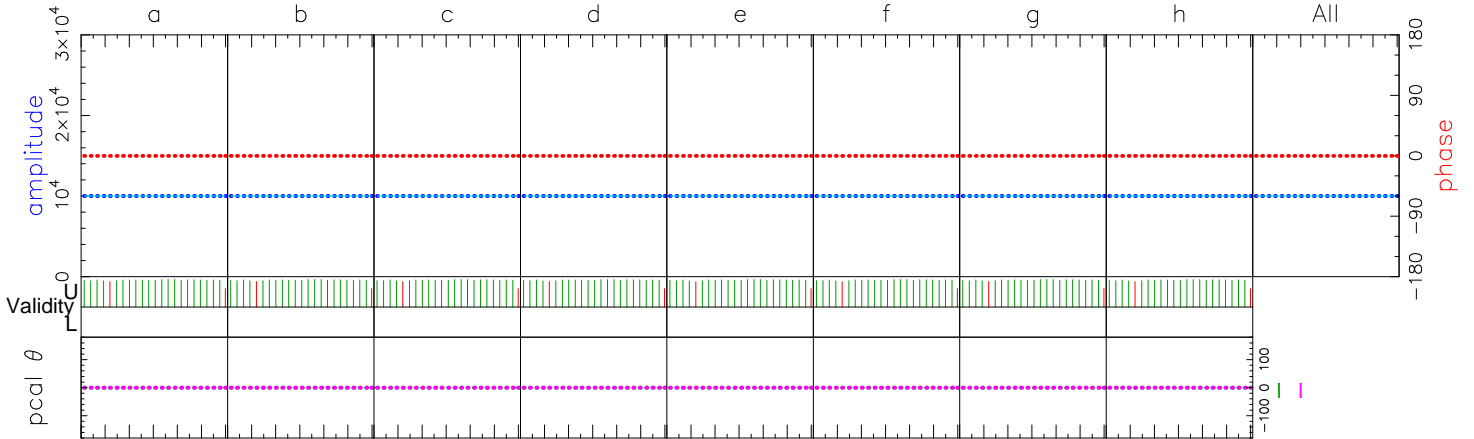


Fringe quality 9

SNR 512595.3
Int time 351.361
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
2020:204:122505
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

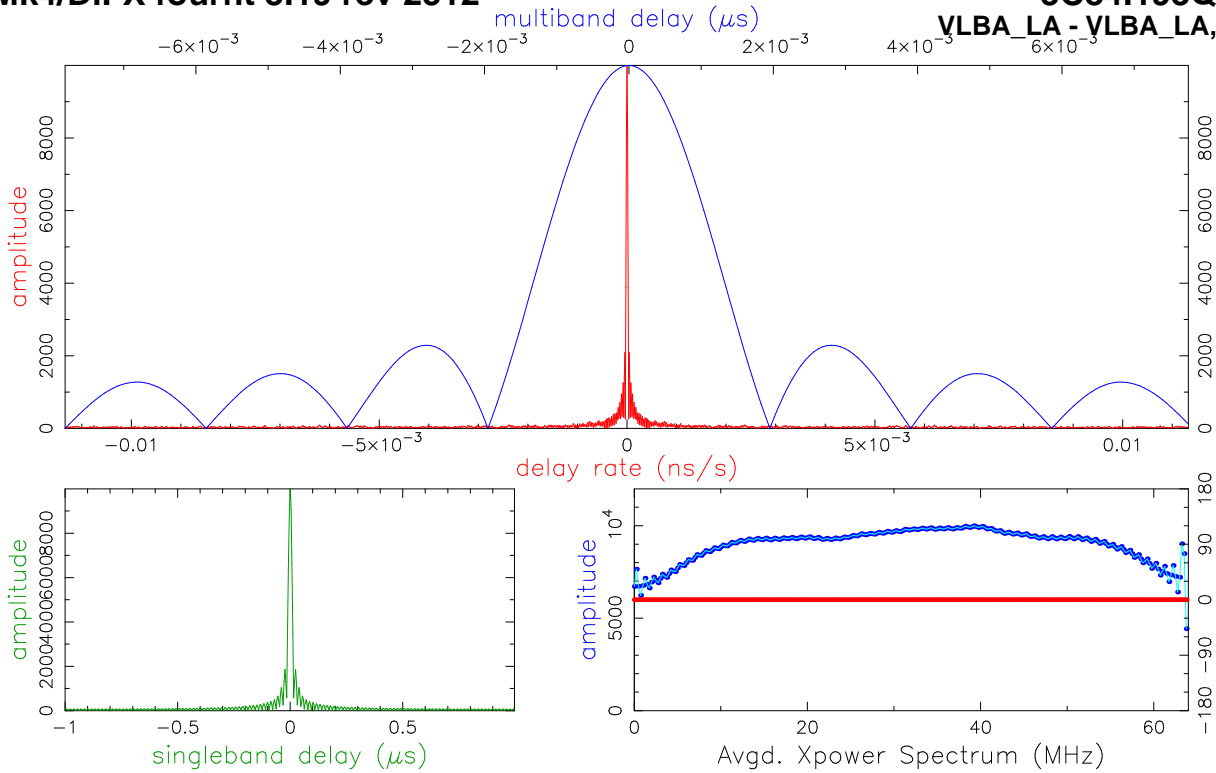


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

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) -2.07223311655E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -2.07223E-19 +/- 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

RMS Theor. Amplitude 10000.002 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 66.2 el 52.6 pa -83.2 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ll..193QBF Output file: /Exps/c201d/v1/1234/No0057/ll.W.109.193QBF

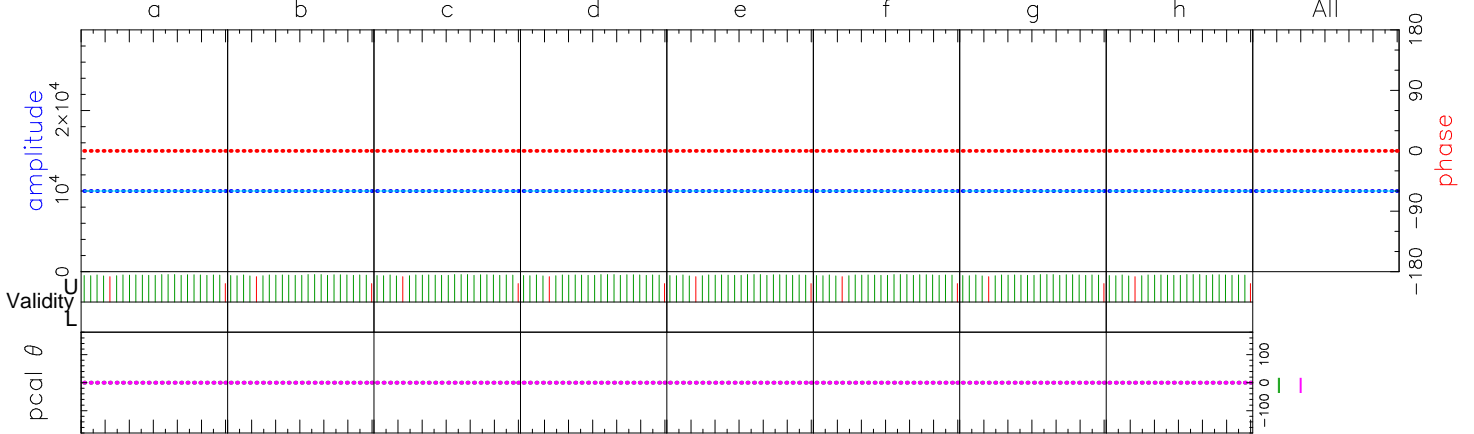


Fringe quality 9

SNR 512595.4
Int time 351.362
Amp 9999.999
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
2020:204:122509
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			
I	1000	1000	1000	1000	1000	1000	1000	1000			
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
I	1000	1000	1000	1000	1000	1000	1000	1000			
I	1000	1000	1000	1000	1000	1000	1000	1000			
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
I	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		+/- 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		+/- 1.7E-08	
Phase delay (usec)	4.21093734671E-20	4.21093734671E-20	4.21093734671E-20	4.21093734671E-20	4.21093734671E-20	4.21093734671E-20	4.21093734671E-20	4.21093734671E-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		+/- 3.5E-14	
Total phase (deg)			0.0								+/- 0.0
RMS											
Theor.											
Amplitude											9999.999 +/- 0.020
Search (2048X32)											9999.999
Interp.											0.000
Inc. seg. avg.											10000.000
Inc. frq. avg.											9999.999
Apriori delay (usec)											0.0000000000E+00
Apriori clock (usec)											0.0000000E+00
Apriori clockrate (us/s)											0.0000000E+00
Apriori rate (us/s)											0.00000000000E+00
Apriori accel (us/s/s)											0.00000000000E+00
Resid mbdelay (usec)											0.000000E+00
Resid sbdelay (usec)											0.000000E+00
Resid phdelay (usec)											4.21094E-20
Resid rate (us/s)											0.000000E+00
Resid phase (deg)											0.0
Pcal mode:											MANUAL, MANUAL
Pcal rate:											0.000E+00, 0.000E+00 (us/s)
Bits/sample:											2x2
Sample rate (MSamp/s):											128
Data rate (Mb/s):											2048
nlags:											256
t_cohere:											infinite
sb window (us)											-1.000 1.000
mb window (us)											-0.008 0.008
dr window (ns/s)											-0.011 0.011
ion window (TEC)											0.00 0.00

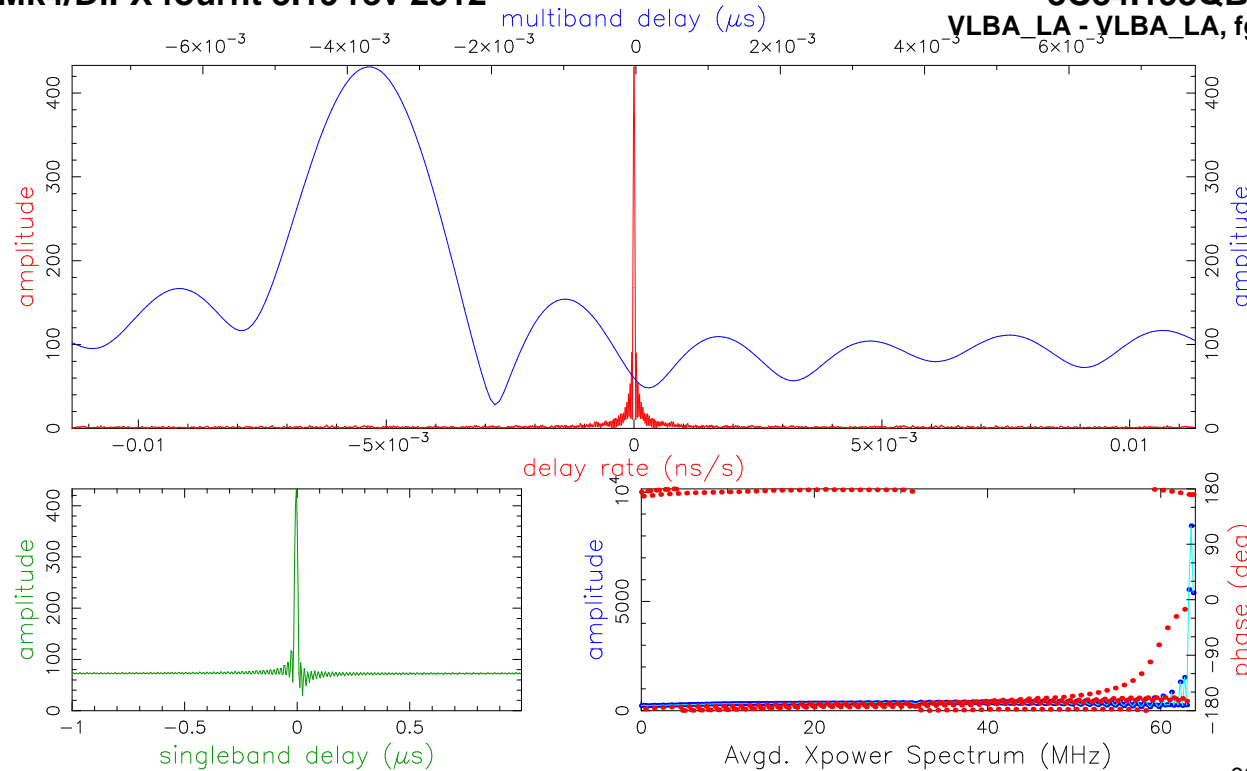
ph/seg (deg) 0.0 0.0
amp/seg (%) 0.0 0.0
ph/frq (deg) 0.0 0.0
amp/frq (%) 0.0 0.0

I: az 66.2 el 52.6 pa -83.2 I: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/II..193QBF Output file: /Exps/c201d/v1/1234/No0057/II.W.130.193QBF

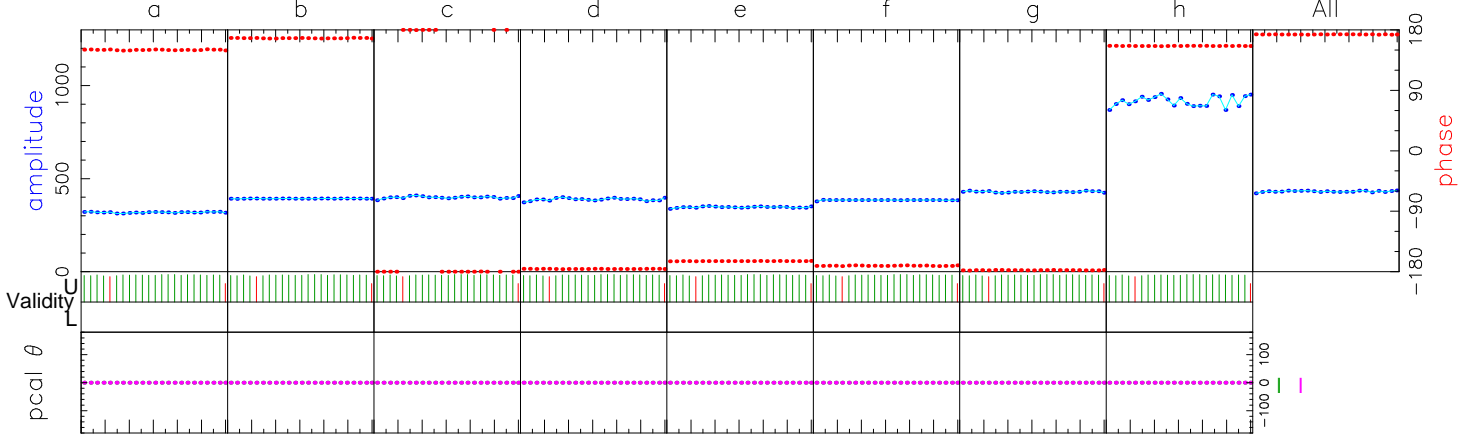
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, II
VLBA_LA - VLBA_LA, fgroup W, pol LR



Fringe quality 6
 SNR 22195.6
 Int time 351.361
 Amp 433.005
 Phase 173.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.004620
 MBD -0.003683
 Fringe rate (Hz)
 -0.000001
 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
 2020:204:122513
 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



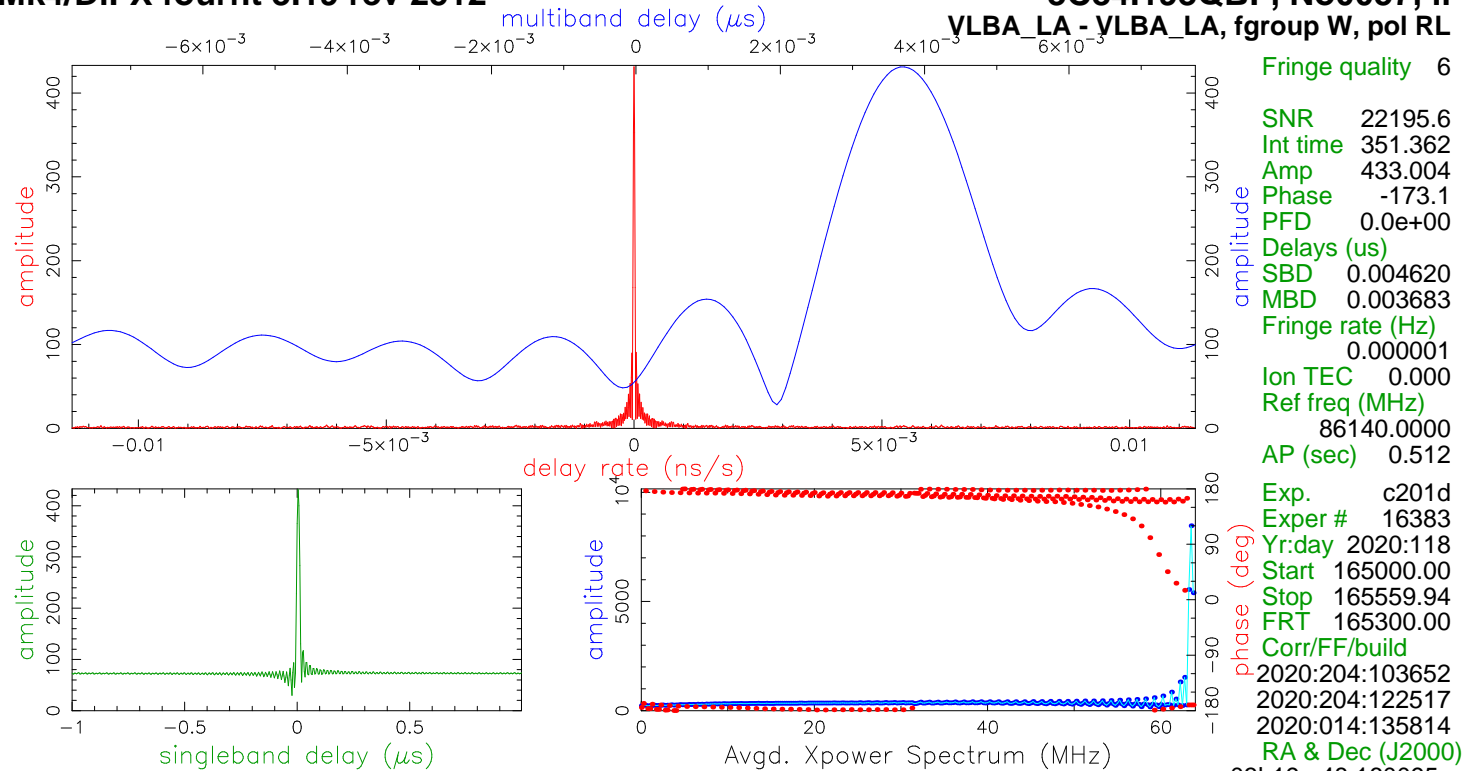
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.68337500000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-3.68337E-03	+/-	4.9E-08
Sband delay (usec)	-4.61950000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-4.61950E-03	+/-	3.9E-07
Phase delay (usec)	5.58151536541E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.58152E-06	+/-	1.7E-10
Delay rate (us/s)	-7.08557619584E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-7.08558E-12	+/-	8.0E-13
Total phase (deg)	173.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	173.1	+/-	0.0

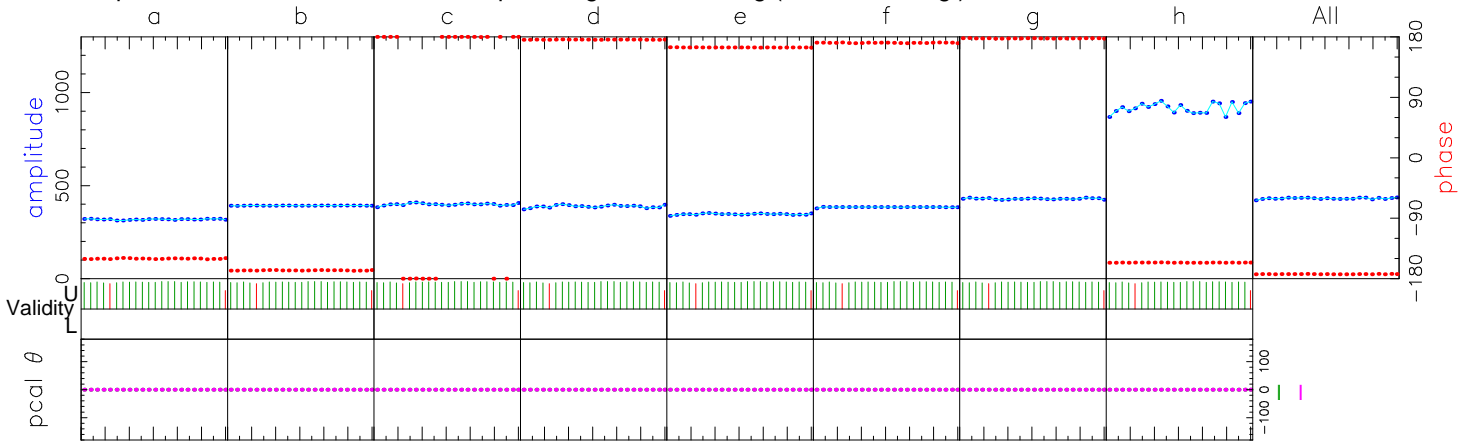
ph/seg (deg)	0.2	0.0	Amplitude	433.005 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.9	0.0	Search (2048X32)	422.750	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	17.7	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.7	0.0	Inc. seg. avg.	431.319	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	446.977	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

l: az 66.2 el 52.6 pa -83.2 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/II..193QBF Output file: /Exps/c201d/v1/1234/No0057/II.W.151.193QBF



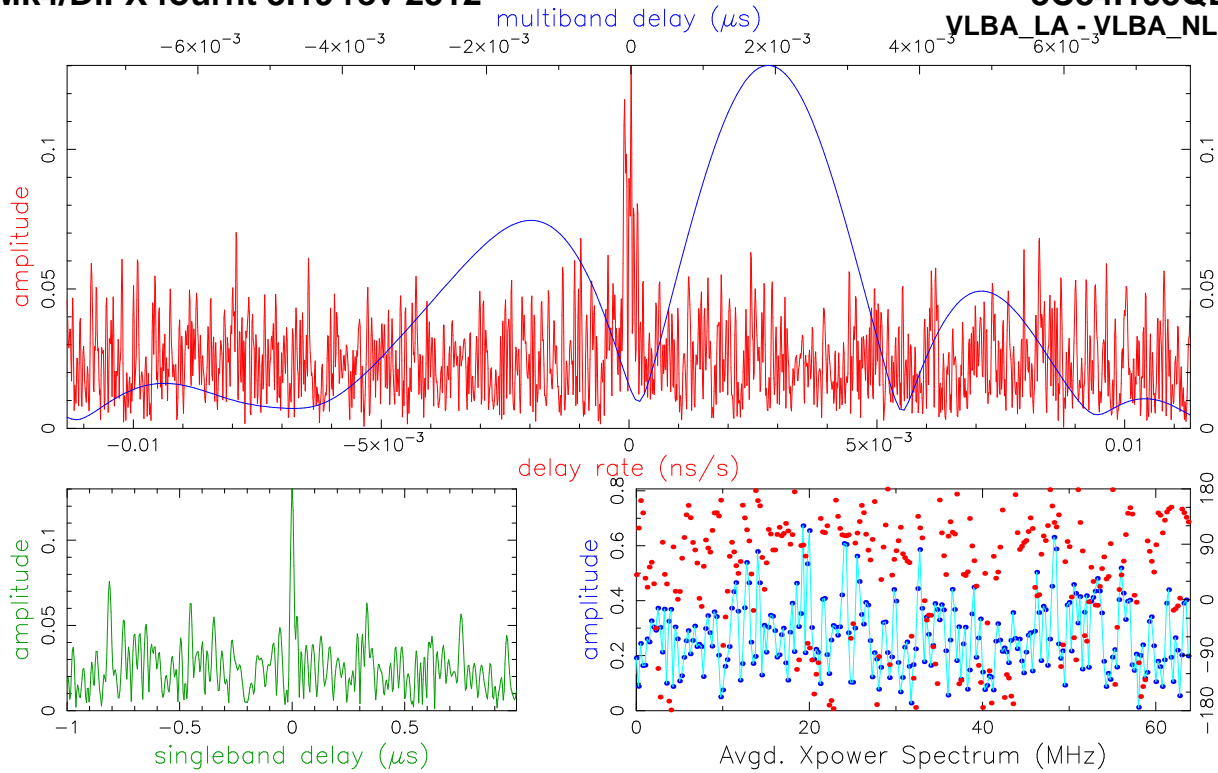
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-150.1	-167.5	180.0	175.7	164.1	171.1	177.7	-156.0	Phase	-173.1
	318.7	392.8	399.2	388.4	346.7	384.5	429.6	915.9	Ampl.	447.0
	257.8	257.9	258.1	257.6	258.0	258.2	258.0	258.2	Sbd box	258.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	3.68337500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.68337E-03	+/- 4.9E-08
Sband delay (usec)	4.61950000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		4.61950E-03	+/- 3.9E-07
Phase delay (usec)	-5.58151536531E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.58152E-06	+/- 1.7E-10
Delay rate (us/s)	7.08557619584E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		7.08558E-12	+/- 8.0E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-173.1	+/- 0.0

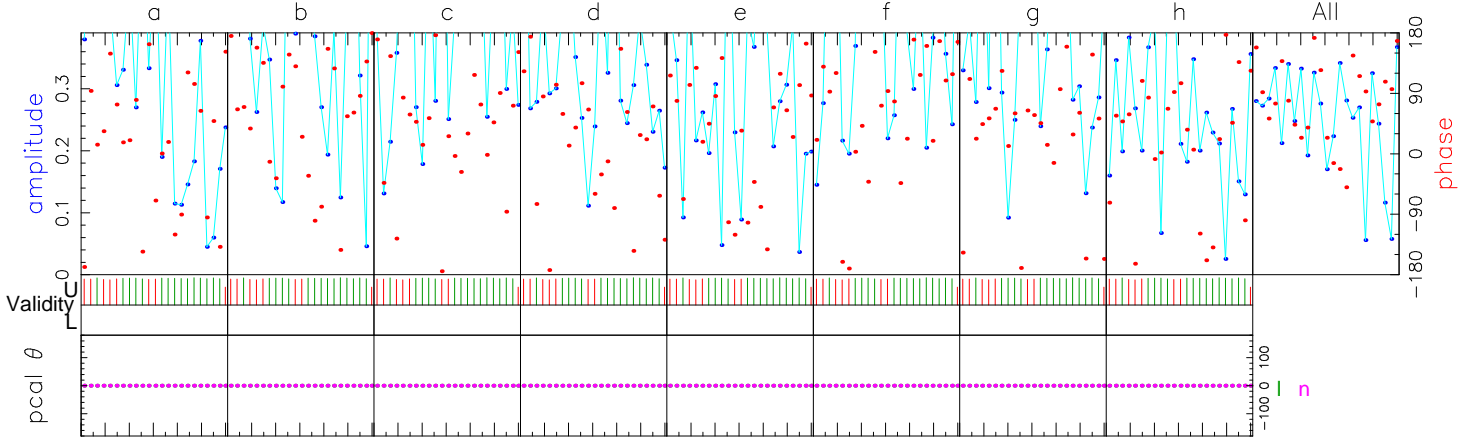
RMS Theor. Amplitude 433.004 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (2048X32) 422.749 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.9 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 17.7 0.0 Inc. seg. avg. 431.318 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 41.7 0.0 Inc. frq. avg. 446.977 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 66.2 el 52.6 pa -83.2 i: az 66.2 el 52.6 pa -83.2 u, v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IL.193QBF Output file: /Exps/c201d/v1/1234/No0057/IL.W.161.193QBF



Fringe quality 0
 SNR 6.6
 Int time 345.553
 Amp 0.130
 Phase 77.5
 PFD 1.1e-02
 Delays (us)
 SBD -0.000096
 MBD 0.001901
 Fringe rate (Hz) 0.003424
 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
 2020:204:122505
 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

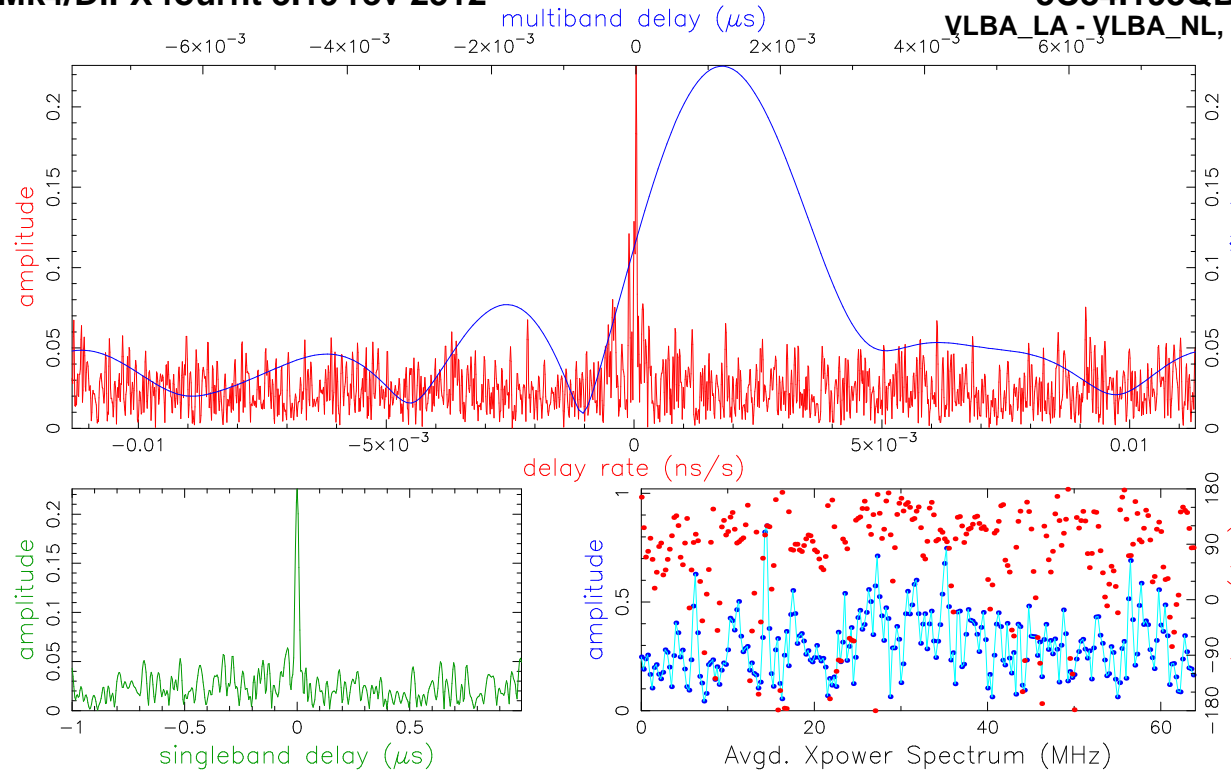


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.41586248648E+03	Apriori delay (usec)	-2.41586438772E+03	Resid mbdelay (usec)	1.90124E-03	+/-	1.6E-04
Sband delay (usec)	-2.41586448397E+03	Apriori clock (usec)	-3.6055763E+01	Resid sbdelay (usec)	-9.62500E-05	+/-	1.3E-03
Phase delay (usec)	-2.41586438522E+03	Apriori clockrate (us/s)	-4.8500001E-07	Resid phdelay (usec)	2.49865E-06	+/-	5.6E-07
Delay rate (us/s)	2.25810545440E-01	Apriori rate (us/s)	2.25810505688E-01	Resid rate (us/s)	3.97522E-08	+/-	2.7E-09
Total phase (deg)	-51.6	Apriori accel (us/s/s)	6.55990036875E-06	Resid phase (deg)	77.5	+/-	17.3

ph/seg (deg)	59.2	RMS	41.5	Theor.	41.5	Amplitude	0.130 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	112.9	Search (2048X32)	0.125	Search	0.125	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	22.6	Inc. seg. avg.	0.198	Inc. seg. avg.	0.198	Inc. frq. avg.	0.125	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	49.2	Inc. frq. avg.	0.125	Inc. frq. avg.	0.125	Sample rate (MSamp/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

l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.110.193QBF

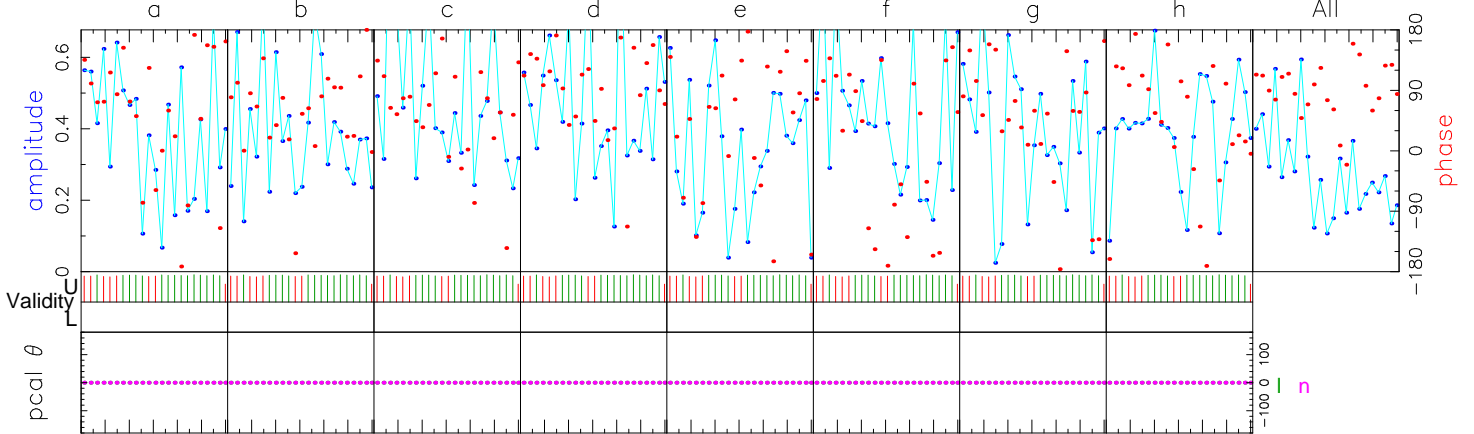


Fringe quality 9

SNR 11.5
 Int time 345.553
 Amp 0.226
 Phase 90.4
 PFD 8.4e-22
 Delays (us)
 SBD -0.000608
 MBD 0.001187
 Fringe rate (Hz) 0.003477
 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
 2020:204:122509
 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

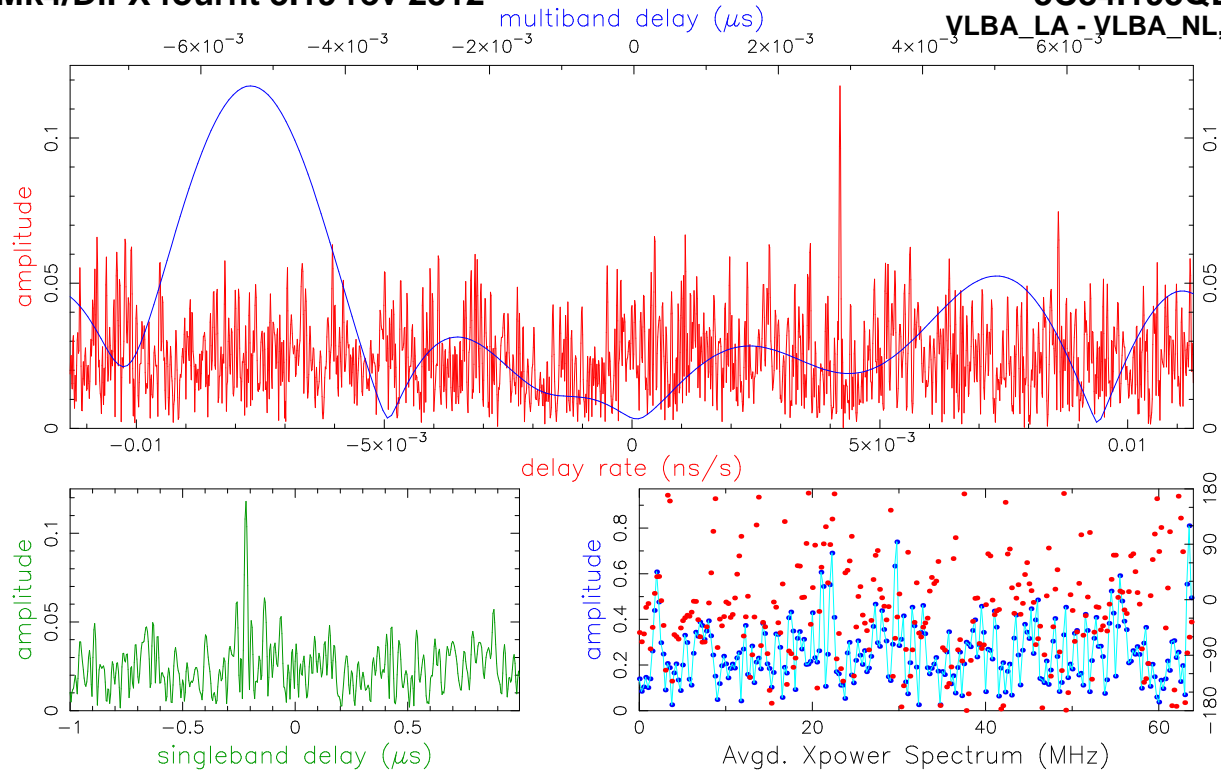


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.41586320108E+03									
Sband delay (usec)	-2.41586499622E+03									
Phase delay (usec)	-2.41586438481E+03									
Delay rate (us/s)	2.25810546053E-01									
Total phase (deg)			-38.7							
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)									90.4	+/- 10.0
PCal mode:	MANUAL	MANUAL								
PCal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 40.6 23.9 Search (2048X32) 0.216 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.9 41.8 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.6 14.1 Inc. seg. avg. 0.260 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.0 24.6 Inc. frq. avg. 0.232 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.129.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, In VLBA_LA - VLBA_NL, fgroup W, pol LR

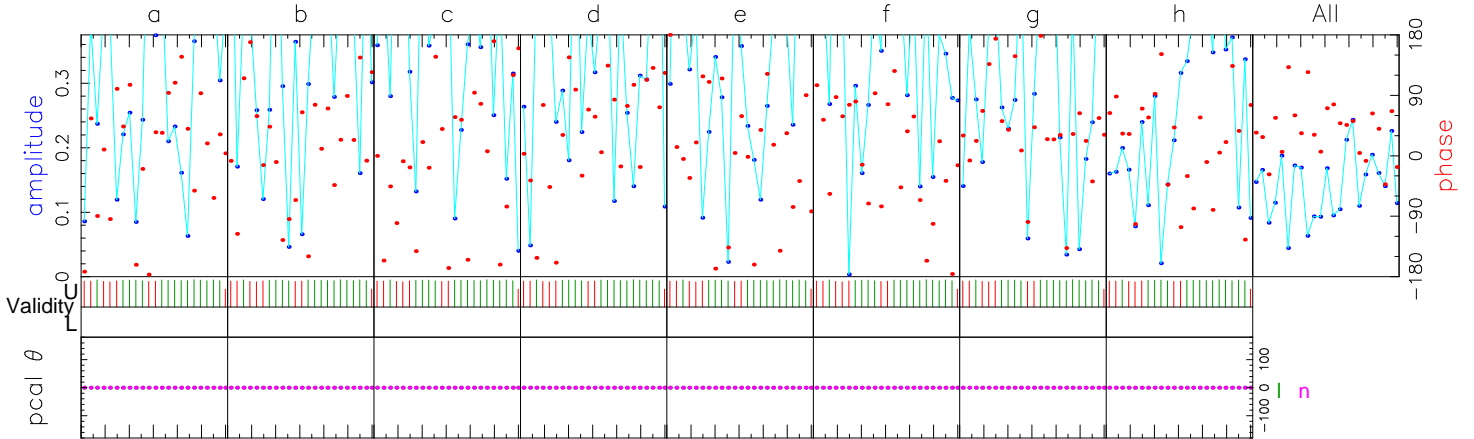


Fringe quality 0

SNR 6.0
 Int time 345.552
 Amp 0.125
 Phase 37.9
 PFD 4.0e-01
 Delays (us)
 SBD -0.219113
 MBD -0.005323
 Fringe rate (Hz) 0.362335
 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
 2020:204:122513
 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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.41608846065E+03									
Sband delay (usec)	-2.41608350097E+03									
Phase delay (usec)	-2.41586438650E+03									
Delay rate (us/s)	2.25814712034E-01									
Total phase (deg)			-91.2							
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)									37.9	+/- 19.1
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MSamp/s): 128										
Data rate(Mb/s): 2048										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 42.0 45.8
 amp/seg (%) 48.1 79.9
 ph/frq (deg) 26.4 27.0
 amp/frq (%) 32.2 47.1

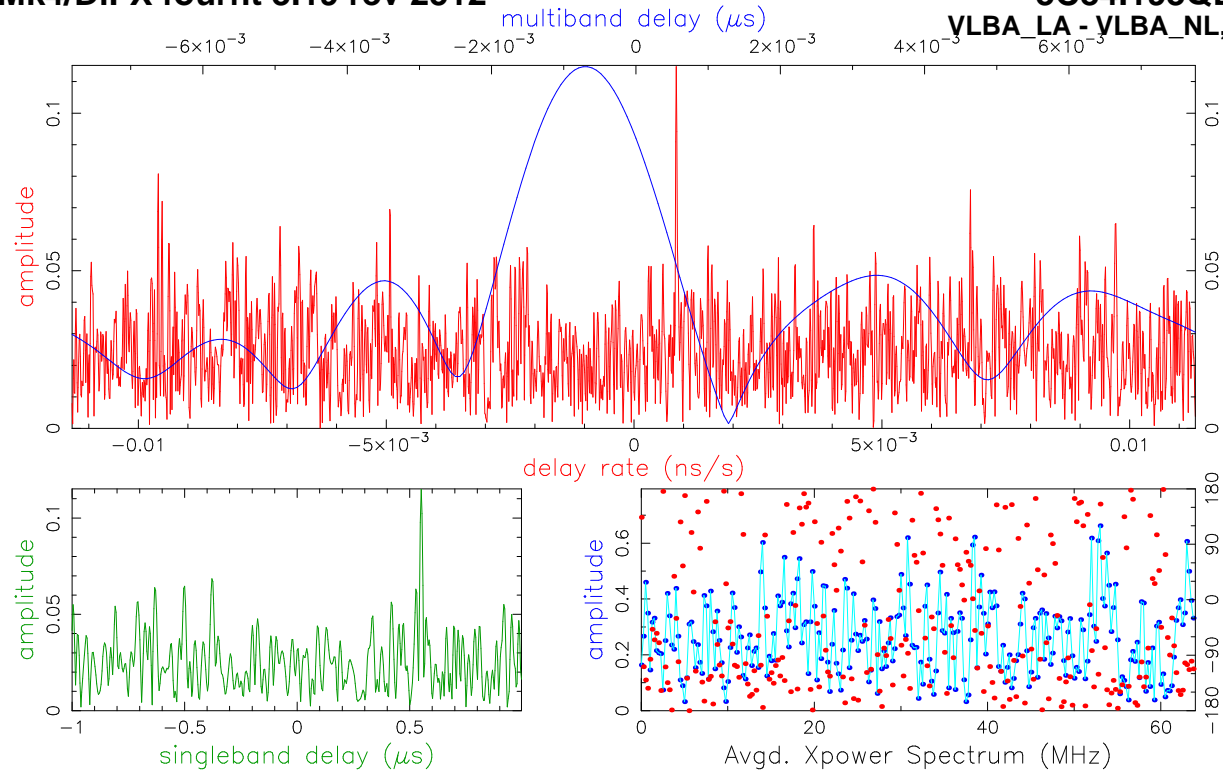
RMS Theor. Amplitude 0.125 +/- 0.021
 Search (2048X32) 0.115
 Interp. 0.000
 Inc. seg. avg. 0.114
 Inc. frq. avg. 0.121

PCal mode: MANUAL, MANUAL
 PCal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2
 Sample rate(MSamp/s): 128
 Data rate(Mb/s): 2048
 nlags: 256 t_cohere infinite

PC period (AP's) 5, 5
 sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

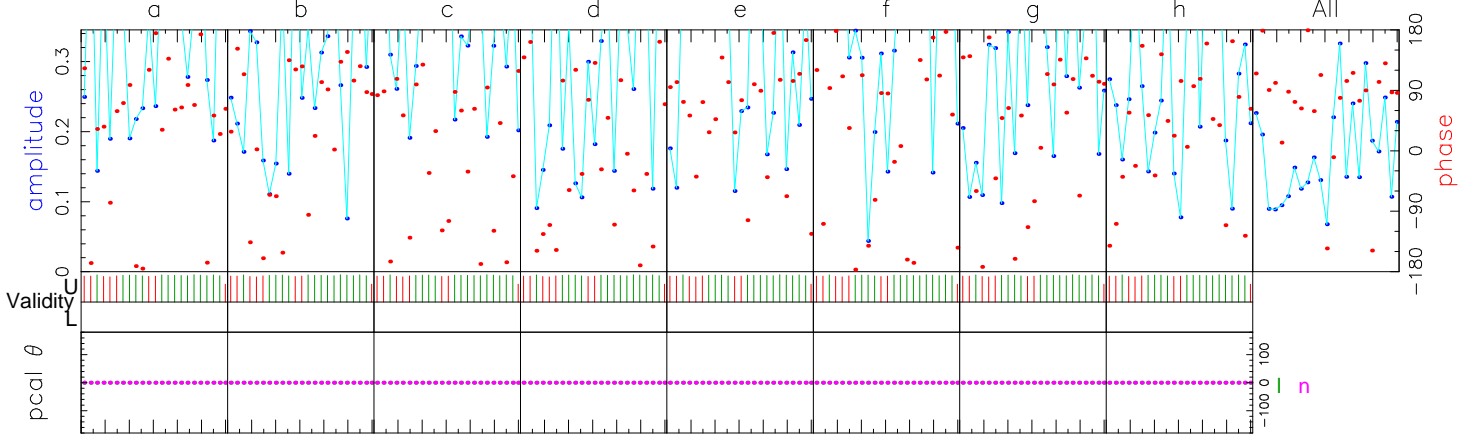
l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.148.193QBF



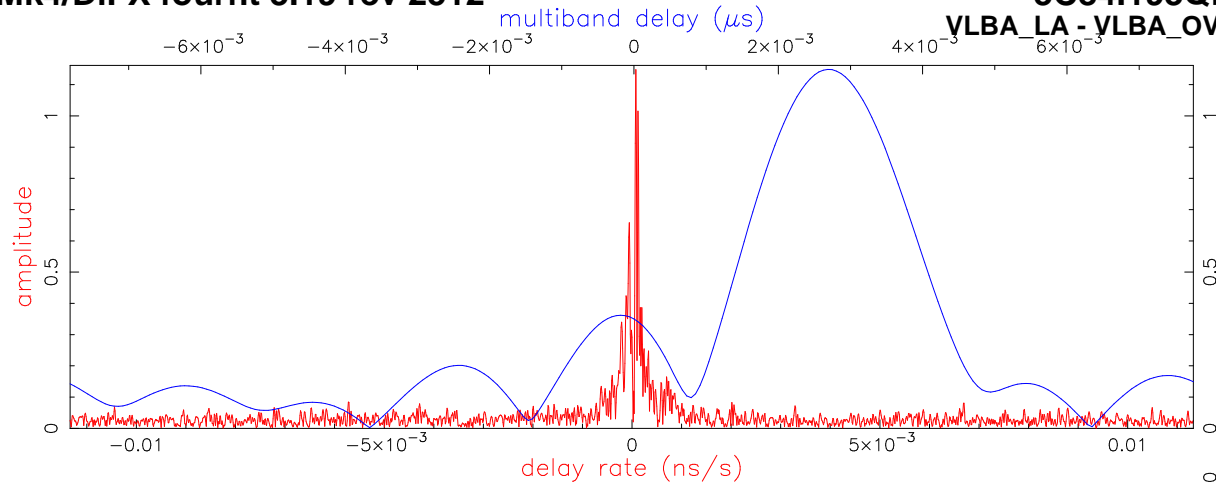
Fringe quality 0
SNR 5.8
Int time 345.554
Amp 0.115
Phase 99.4
PFD 7.3e-01
Delays (us)
SBD 0.551089
MBD -0.000697
Fringe rate (Hz)
0.073278
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122516
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



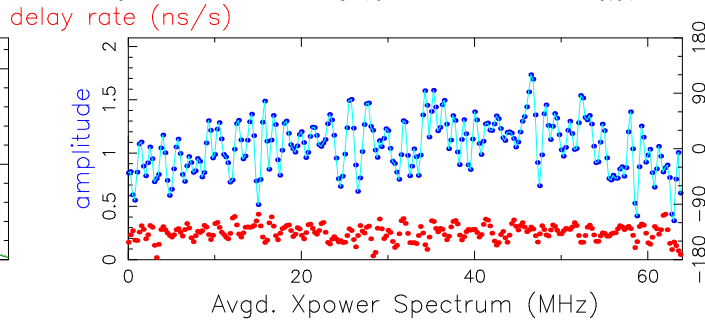
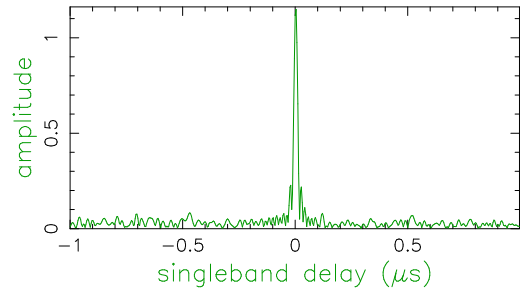
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.41531820943E+03									
Sband delay (usec)	-2.41531329872E+03									
Phase delay (usec)	-2.41586438452E+03									
Delay rate (us/s)	2.25811356371E-01									
Total phase (deg)			-29.6							
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)									99.4	+/- 19.6
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MSamp/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) 53.4 47.1 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 74.9 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 32.8 27.8 Inc. seg. avg. 0.125 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.6 48.4 Inc. frq. avg. 0.112 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.159.193QBF



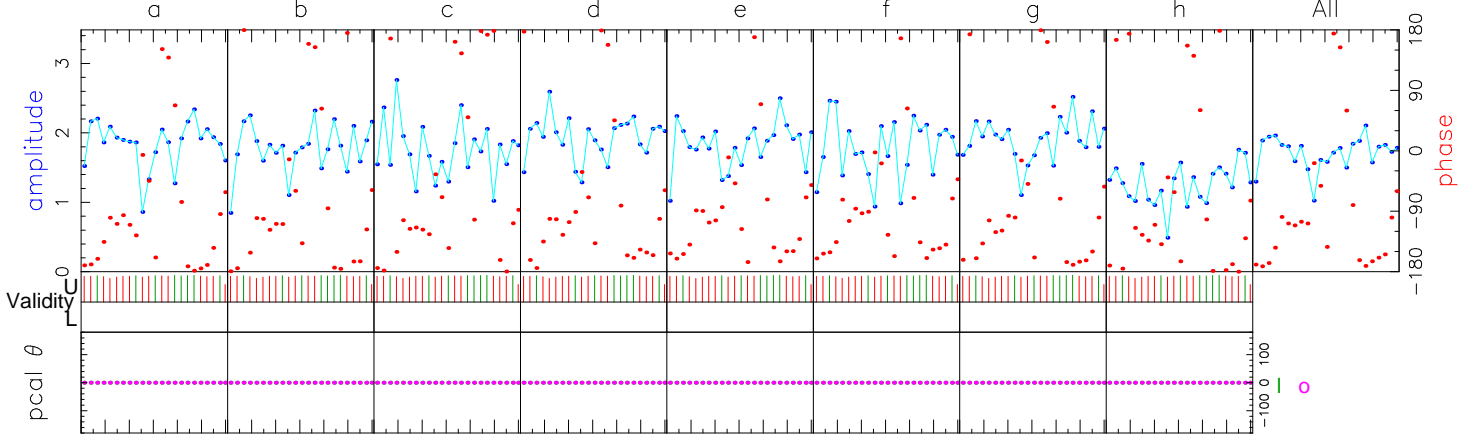
Fringe quality 4

SNR 58.4
Int time 337.906
Amp 1.162
Phase -137.1
PFD 0.0e+00
Delays (us)
SBD 0.002536
MBD 0.002664
Fringe rate (Hz)
0.006582
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
2020:204:122514
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

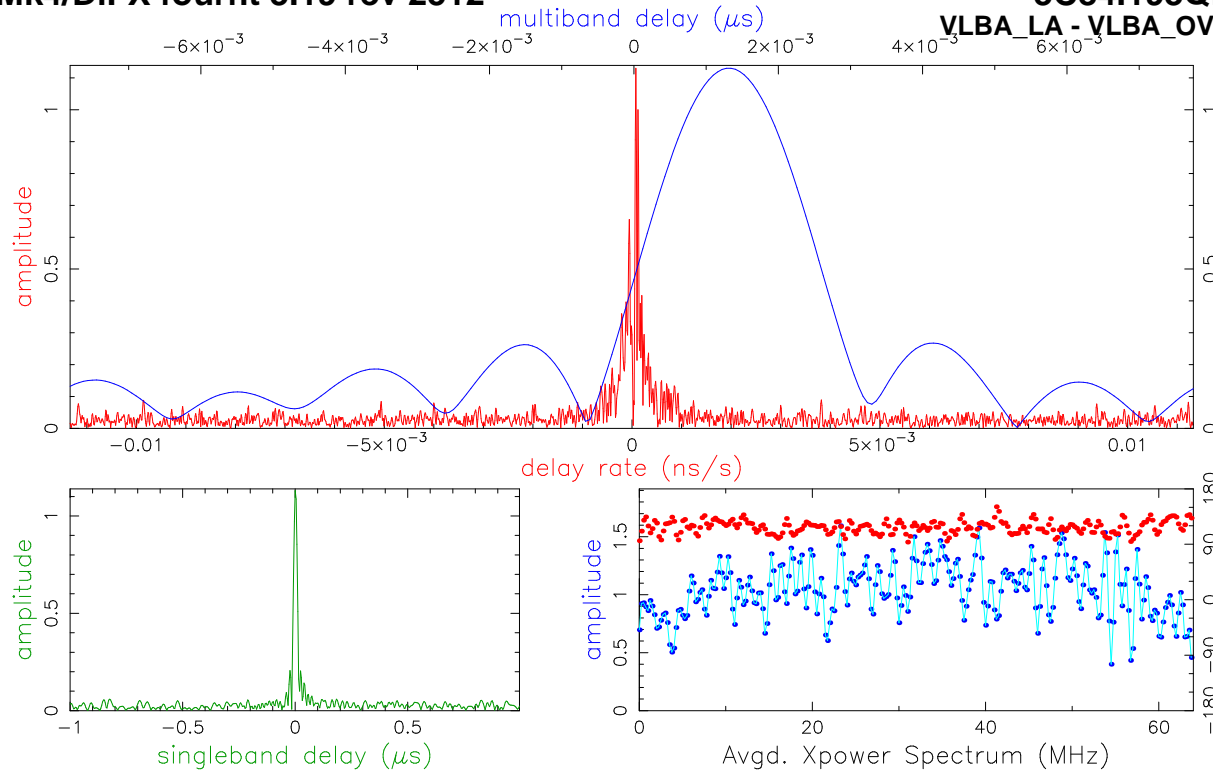


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	1.98211256387E+03	Apriori delay (usec)		1.98210989972E+03	Resid mbdelay (usec)		2.66415E-03	+/- 1.9E-05	
Sband delay (usec)	1.98211243597E+03	Apriori clock (usec)		-2.3839825E+01	Resid sbdelay (usec)		2.53625E-03	+/- 1.5E-04	
Phase delay (usec)	1.98210989530E+03	Apriori clockrate (us/s)		-3.5200000E-07	Resid phdelay (usec)		-4.42028E-06	+/- 6.3E-08	
Delay rate (us/s)	-1.03384488574E-01	Apriori rate (us/s)		-1.03384564981E-01	Resid rate (us/s)		7.64073E-08	+/- 3.0E-10	
Total phase (deg)	137.2	Apriori accel (us/s/s)		-1.21909704132E-05	Resid phase (deg)		-137.1	+/- 2.0	

ph/seg (deg)	57.6	4.7	RMS	57.6	Theor.	4.7	Amplitude	1.162 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	51.4	8.2	Search (2048X32)	1.118	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		Interp.	0.000	SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	14.4	2.8	Inc. seg. avg.	1.707	Bits/sample: 2x2		Inc. frq. avg.	1.173	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	10.5	4.8	Inc. frq. avg.	1.173	Data rate(Mb/s): 2048				Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00

l: az 66.2 el 52.6 pa -83.2 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 776.678 -989.873 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lo..193QBF Output file: /Exps/c201d/v1/1234/No0057/lo.W.152.193QBF

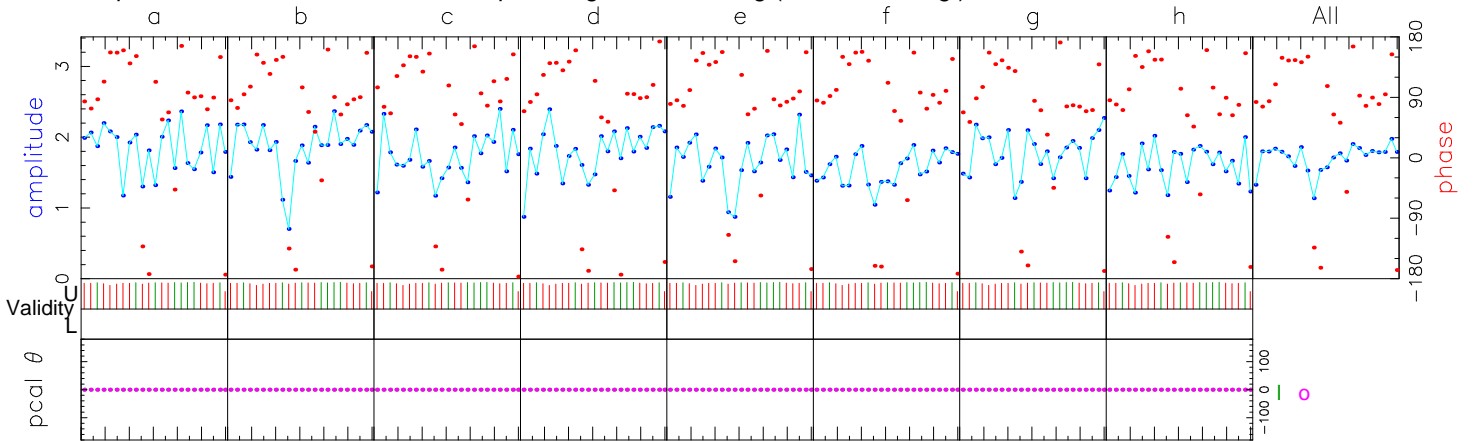


Fringe quality 5

SNR 57.3
Int time 337.907
Amp 1.139
Phase 115.0
PFD 0.0e+00
Delays (us)
SBD 0.001133
MBD 0.001339
Fringe rate (Hz)
0.006582
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
2020:204:122517
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

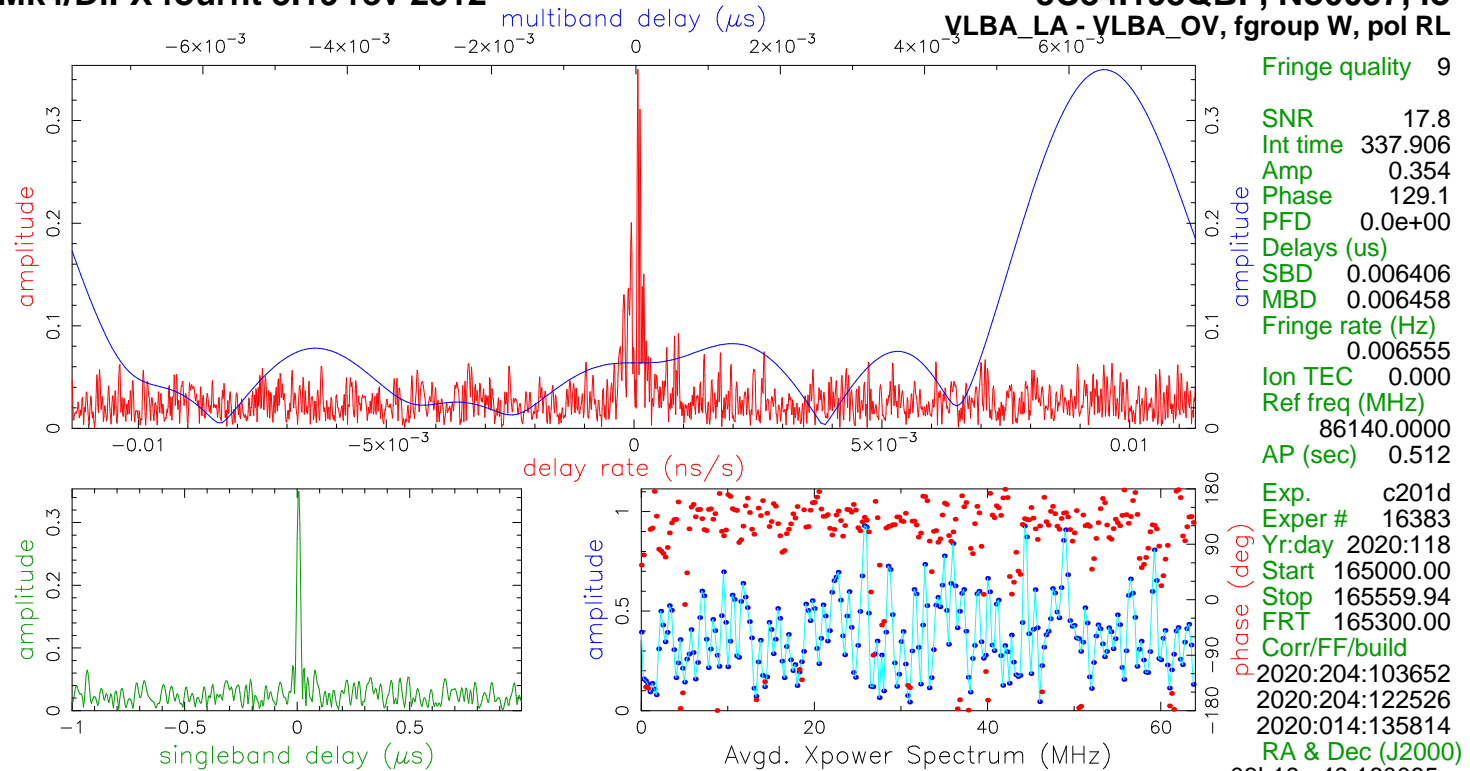


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

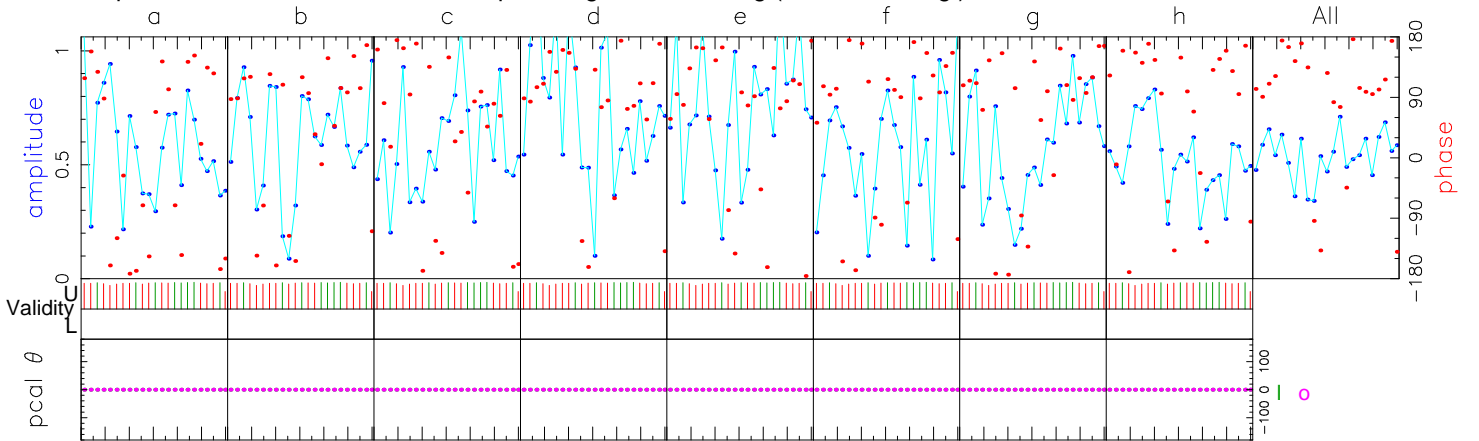
Group delay (usec)(sbd) 1.98211123890E+03 Apriori delay (usec) 1.98210989972E+03 Resid mbdelay (usec) 1.33918E-03 +/- 1.9E-05
 Sband delay (usec) 1.98211103247E+03 Apriori clock (usec) -2.3839825E+01 Resid sbdelay (usec) 1.13275E-03 +/- 1.5E-04
 Phase delay (usec) 1.98210990343E+03 Apriori clockrate (us/s) -3.5200000E-07 Resid phdelay (usec) 3.70977E-06 +/- 6.5E-08
 Delay rate (us/s) -1.03384488574E-01 Apriori rate (us/s) -1.03384564981E-01 Resid rate (us/s) 7.64066E-08 +/- 3.1E-10
 Total phase (deg) 29.3 Apriori accel (us/s/s) -1.21909704132E-05 Resid phase (deg) 115.0 +/- 2.0

RMS Theor. Amplitude 1.139 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.2 4.8 Search (2048X32) 1.114 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 52.6 8.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 5.2 2.8 Inc. seg. avg. 1.703 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 8.0 4.9 Inc. frq. avg. 1.133 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 66.2 el 52.6 pa -83.2 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 776.678 -989.873 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lo..193QBF Output file: /Exps/c201d/v1/1234/No0057/lo.W.163.193QBF



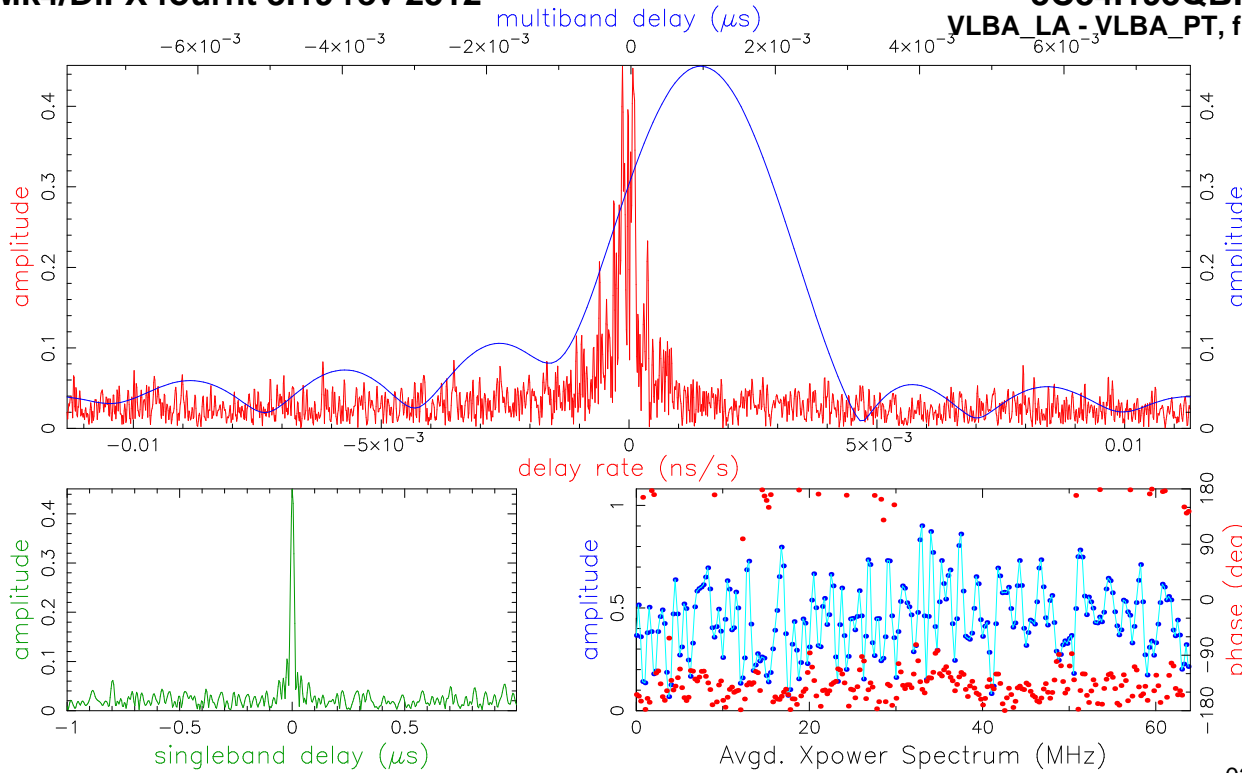
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
156.0	118.0	113.3	120.2	120.9	142.0	125.7	144.3	144.3	Phase	129.1
0.3	0.3	0.2	0.5	0.4	0.3	0.4	0.3	0.3	Ampl.	0.4
258.1	259.0	258.2	258.8	259.3	258.5	258.1	259.0	259.0	Sbd box	258.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.98211635759E+03		Apriori delay (usec)		1.98210989972E+03		Resid mbdelay (usec)	6.45787E-03	+/-	6.1E-05
Sband delay (usec)	1.98211630597E+03		Apriori clock (usec)		-2.3839825E+01		Resid sbdelay (usec)	6.40625E-03	+/-	4.8E-04
Phase delay (usec)	1.98210990388E+03		Apriori clockrate (us/s)		-3.5200000E-07		Resid phdelay (usec)	4.16371E-06	+/-	2.1E-07
Delay rate (us/s)	-1.03384488881E-01		Apriori rate (us/s)		-1.03384564981E-01		Resid rate (us/s)	7.60998E-08	+/-	1.0E-09
Total phase (deg)		43.4	Apriori accel (us/s/s)		-1.21909704132E-05		Resid phase (deg)	129.1	+/-	6.4

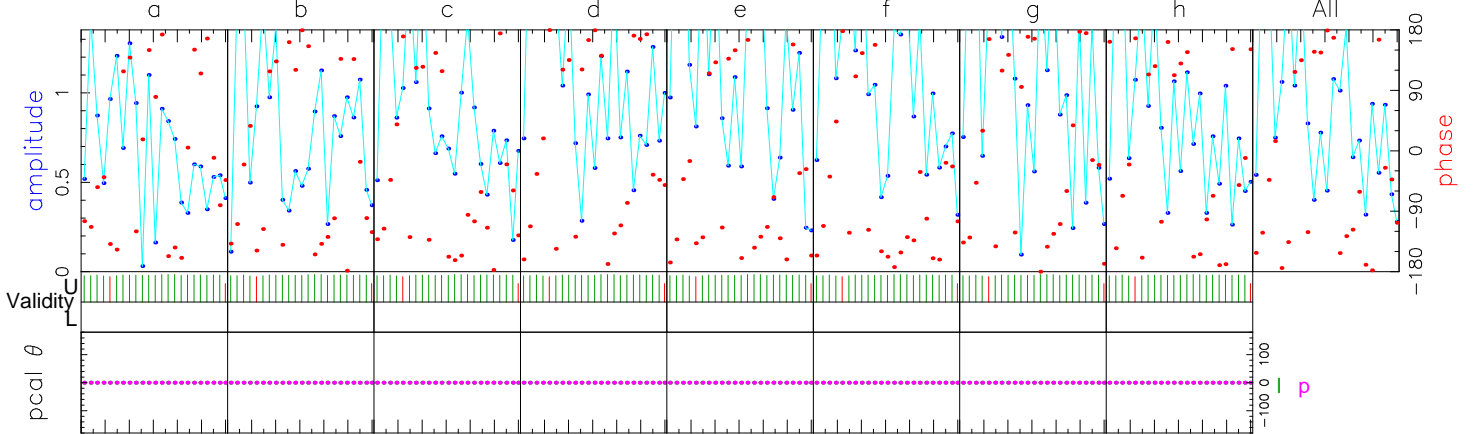
	RMS	Theor.	Amplitude	0.354 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.9	15.4	Search (2048X32)	0.346	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	59.4	27.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	16.6	9.1	Inc. seg. avg.	0.520	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	23.9	15.9	Inc. frq. avg.	0.355	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 66.2 el 52.6 pa -83.2 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 776.678 -989.873 simultaneous interpolator



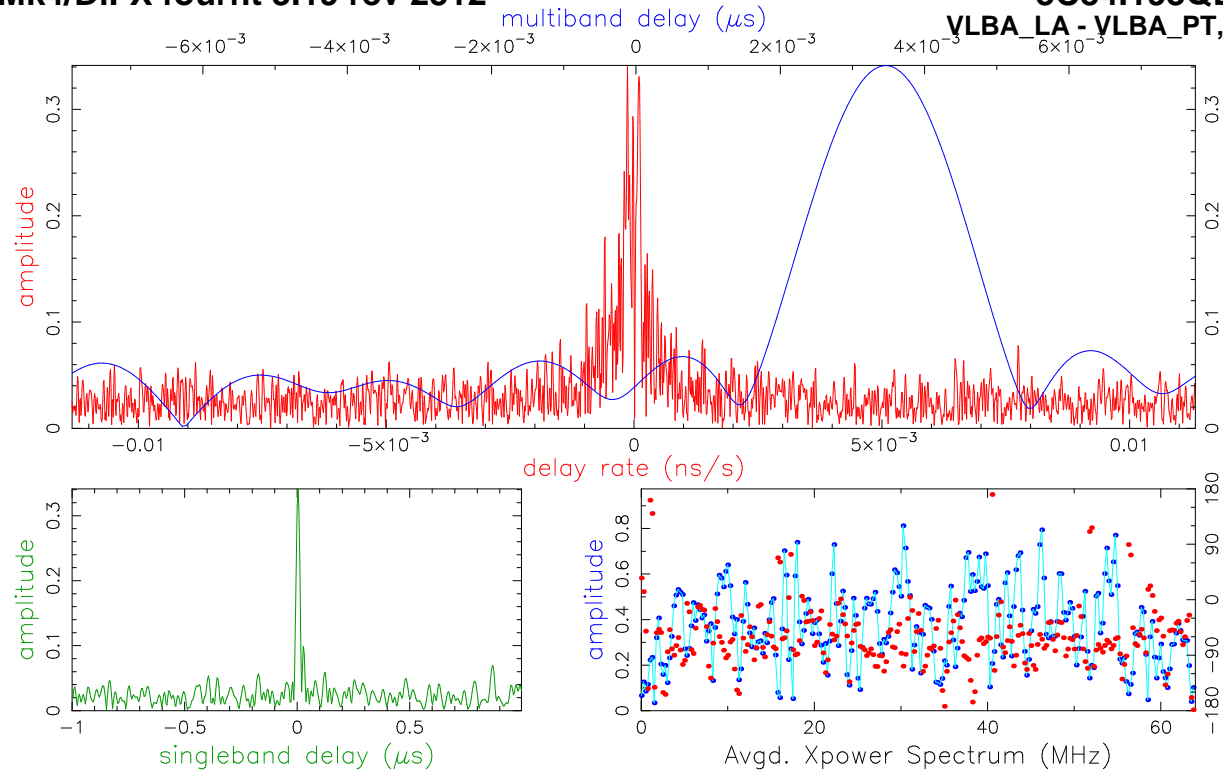
Fringe quality 9
SNR 23.1
Int time 350.706
Amp 0.451
Phase -147.9
PFD 0.0e+00
Delays (us)
SBD 0.000632
MBD 0.000987
Fringe rate (Hz)
-0.011294
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122514
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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		4.35329728944E+02			4.35328742292E+02				9.88651E-04	+/- 4.7E-05
Sband delay (usec)		4.35329374292E+02			-2.1031590E+01				6.32000E-04	+/- 3.7E-04
Phase delay (usec)		4.35328737522E+02			-3.5499999E-07				-4.76994E-06	+/- 1.6E-07
Delay rate (us/s)		-3.35441227962E-02			-3.35439916791E-02				-1.31117E-07	+/- 7.7E-10
Total phase (deg)			162.1		-8.52622816991E-07				-147.9	+/- 5.0
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
RMS	68.3	11.9								
Theor.										
Amplitude					0.451 +/- 0.020					
Search (2048X32)					0.448					
Interp.					0.000					
Inc. seg. avg.					0.910					
Inc. frq. avg.					0.451					
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

l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.154.193QBF

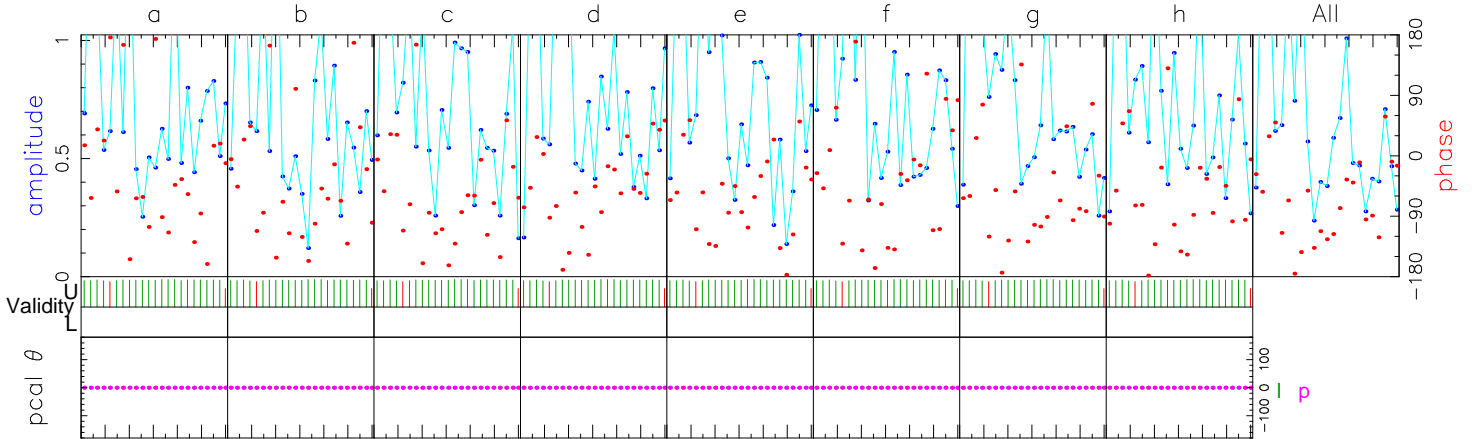


Fringe quality 9

SNR 17.5
Int time 350.706
Amp 0.341
Phase -63.5
PFD 0.0e+00
Delays (us)
SBD 0.003767
MBD 0.003457
Fringe rate (Hz)
-0.011557
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
2020:204:122518
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

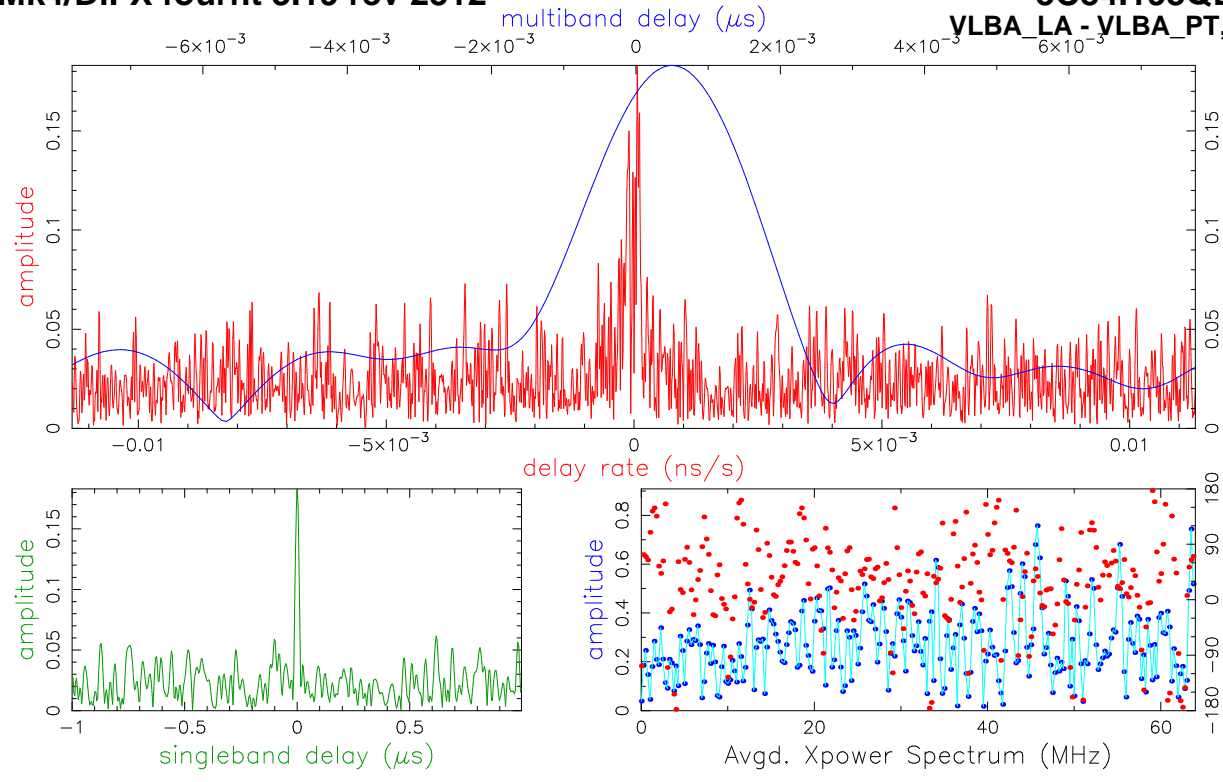
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.35332198944E+02			4.35328742292E+02				3.45665E-03	+/- 6.2E-05
Sband delay (usec)		4.35332509542E+02			-2.1031590E+01				3.76725E-03	+/- 4.9E-04
Phase delay (usec)		4.35328740244E+02			-3.5499999E-07				-2.04814E-06	+/- 2.1E-07
Delay rate (us/s)		-3.35441258494E-02			-3.35439916791E-02				-1.34170E-07	+/- 1.0E-09
Total phase (deg)			246.5		-8.52622816991E-07				-63.5	+/- 6.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
RMS	62.1	15.7			0.341 +/- 0.020					
ph/seg (deg)	62.1	15.7			0.339					
amp/seg (%)	152.6	27.4			0.000					
ph/frq (deg)	9.9	9.3			0.657					
amp/frq (%)	12.9	16.2			0.341					
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
PCal mode:					MANUAL, MANUAL					
PCal rate:					0.000E+00, 0.000E+00 (us/s)					
Bits/sample:					2x2					
Sample rate (MSamp/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

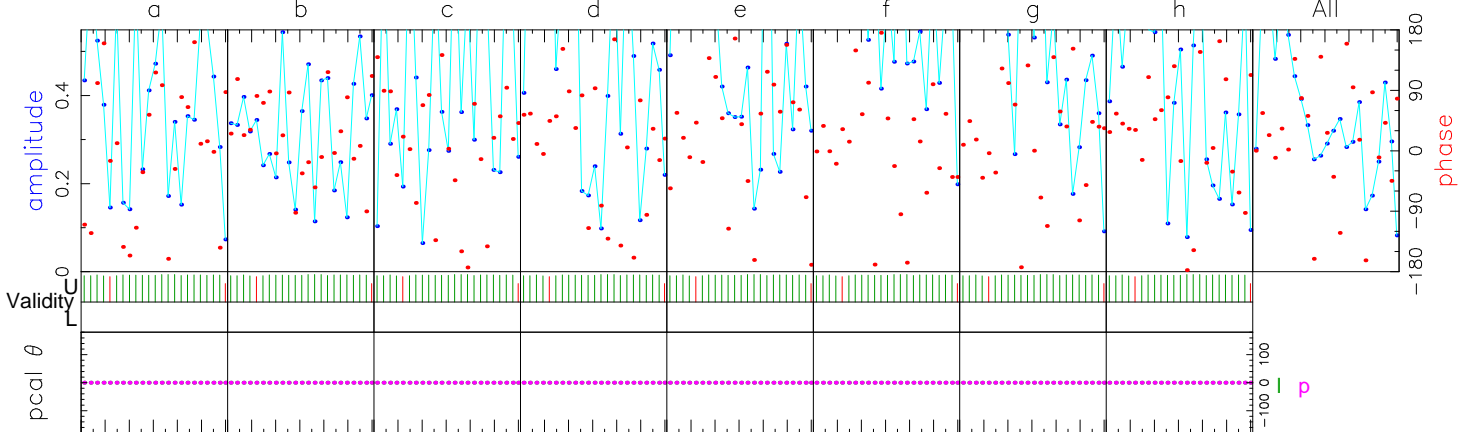
l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.169.193QBF



Fringe quality 9
SNR 9.4
Int time 350.706
Amp 0.183
Phase 36.4
PFD 2.8e-12
Delays (us)
SBD -0.000079
MBD 0.000497
Fringe rate (Hz) 0.006205
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
2020:204:122522
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

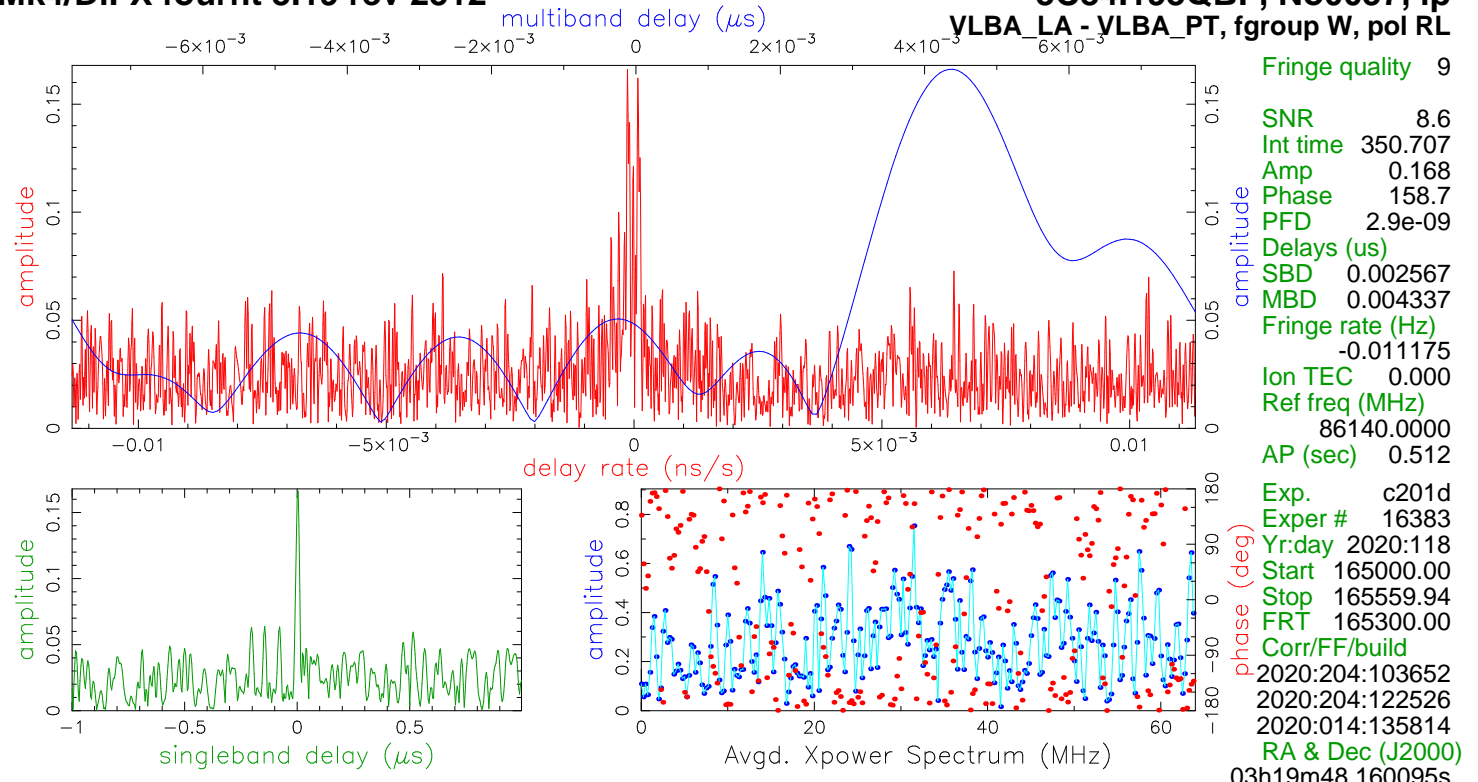


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.35329239722E+02			4.35328742292E+02				4.97430E-04	+/- 1.2E-04
Sband delay (usec)		4.35328663792E+02			-2.1031590E+01				-7.85000E-05	+/- 9.2E-04
Phase delay (usec)		4.35328743465E+02			-3.5499999E-07				1.17274E-06	+/- 3.9E-07
Delay rate (us/s)		-3.35439196450E-02			-3.35439916791E-02				7.20341E-08	+/- 1.9E-09
Total phase (deg)			346.3		-8.52622816991E-07				36.4	+/- 12.2
	RMS	Theor.	Amplitude	0.183 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	79.7	29.3	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	127.6	51.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	15.8	17.3	Inc. seg. avg.	0.320	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	42.0	30.2	Inc. frq. avg.	0.181	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

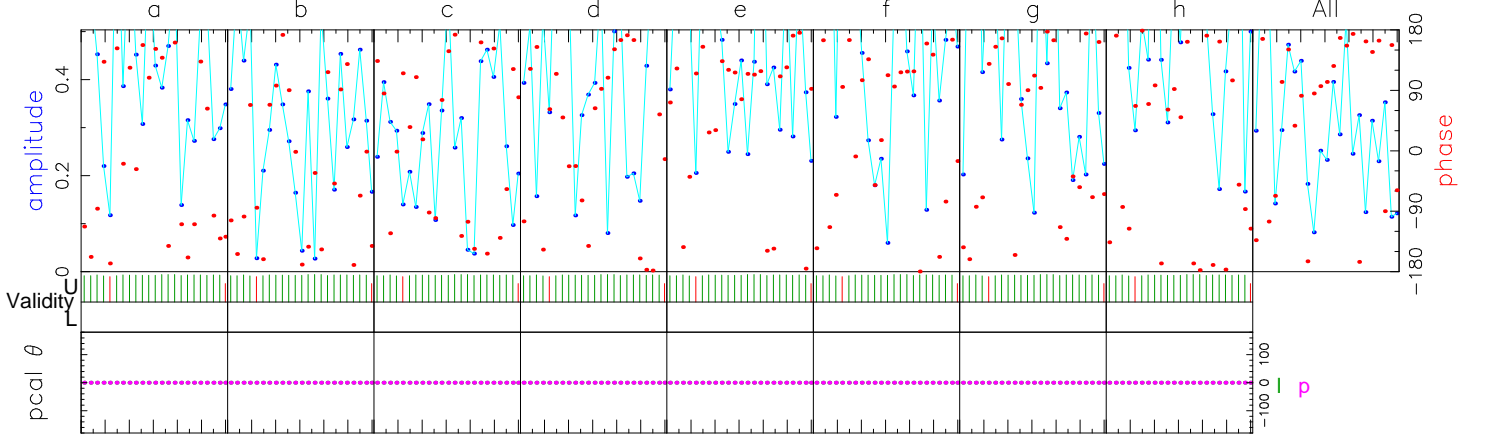
l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.185.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, Ip
VLBA_LA - VLBA_PT, 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

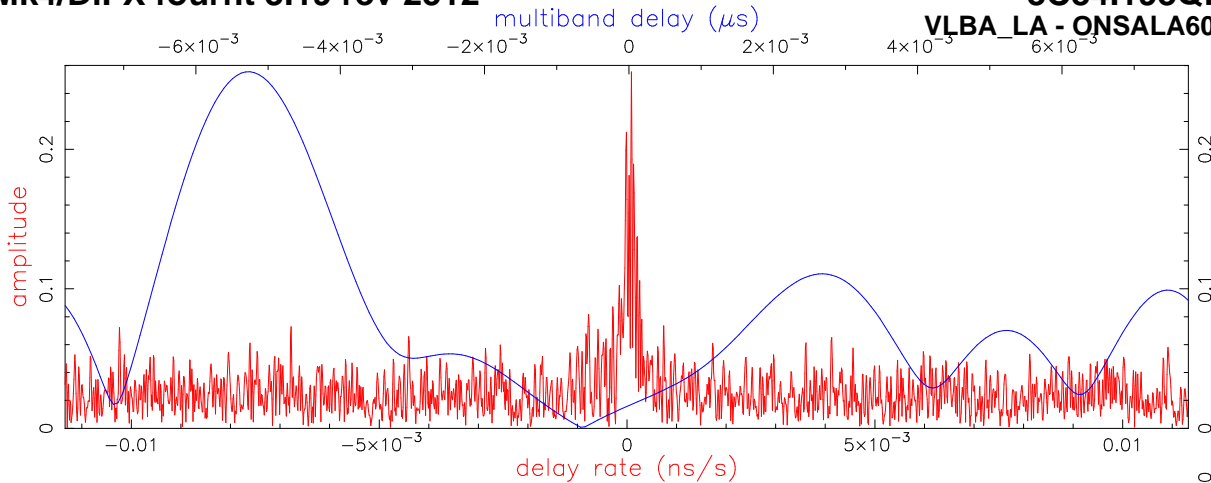


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
174.8	176.8	170.4	122.3	127.2	154.5	-175.8	173.5	173.5	Phase	158.7
0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
204.4	186.1	283.2	236.3	257.8	257.3	258.0	258.7	258.7	Sbd box	257.7
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
l 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
lp 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
l 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)	4.35333079350E+02		Apriori delay (usec)	4.35328742292E+02		Resid mbdelay (usec)	4.33706E-03		+/-	1.3E-04
Sband delay (usec)	4.35331309042E+02		Apriori clock (usec)	-2.1031590E+01		Resid sbdelay (usec)	2.56675E-03		+/-	1.0E-03
Phase delay (usec)	4.35328747409E+02		Apriori clockrate (us/s)	-3.5499999E-07		Resid phdelay (usec)	5.11710E-06		+/-	4.3E-07
Delay rate (us/s)	-3.35441214110E-02		Apriori rate (us/s)	-3.35439916791E-02		Resid rate (us/s)	-1.29732E-07		+/-	2.1E-09
Total phase (deg)		108.7	Apriori accel (us/s/s)	-8.52622816991E-07		Resid phase (deg)	158.7		+/-	13.3

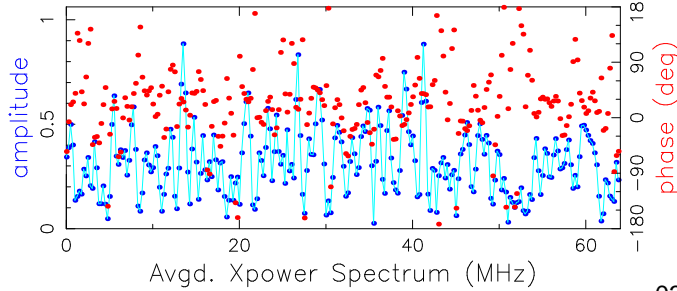
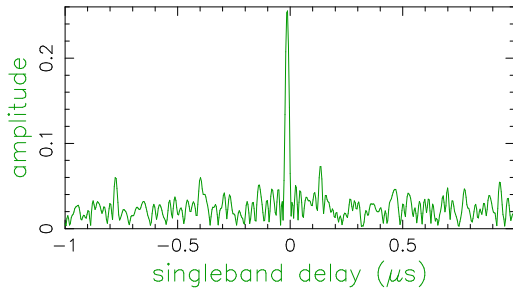
ph/seg (deg) 66.0 32.0 Amplitude 0.168 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 126.0 55.8 Search (2048X32) 0.163 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.6 18.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.1 32.9 Inc. seg. avg. 0.271 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.170 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.203.193QBF

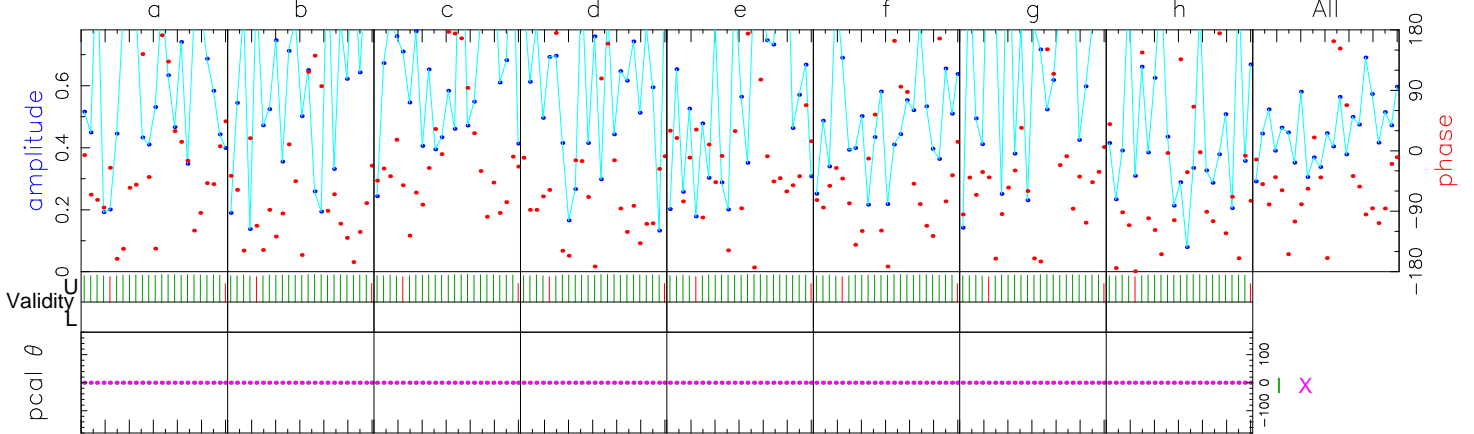


Fringe quality 9
SNR 13.3
Int time 351.324
Amp 0.260
Phase -71.7
PFD 8.3e-32
Delays (us)
SBD -0.013474
MBD -0.005313
Fringe rate (Hz) 0.007431
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122517
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

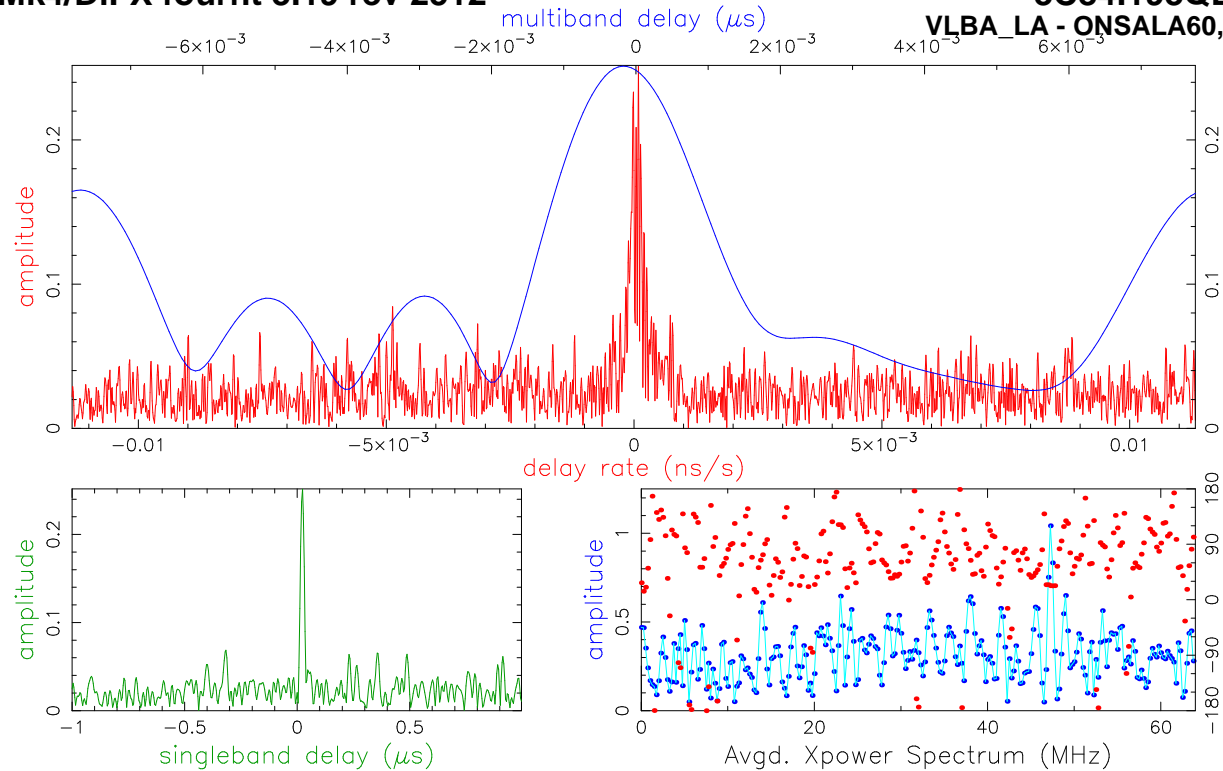


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-70.6	-103.6	-49.2	-89.2	-26.4	-73.5	-54.5	-118.9	Phase	-71.7
	0.3	0.4	0.3	0.3	0.3	0.2	0.4	0.2	Ampl.	0.3
	253.6	253.0	253.7	253.9	253.4	252.9	252.3	251.1	Sbd box	253.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.32433912995E+03	Apriori delay (usec)	2.32436006835E+03	Resid mbdelay (usec)	-5.31339E-03	+/-	8.1E-05
Sband delay (usec)	2.32434659385E+03	Apriori clock (usec)	-4.4555267E+01	Resid sbdelay (usec)	-1.34745E-02	+/-	6.5E-04
Phase delay (usec)	2.32436006603E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-2.31130E-06	+/-	2.8E-07
Delay rate (us/s)	1.28389972270E+00	Apriori rate (us/s)	1.28389963643E+00	Resid rate (us/s)	8.62718E-08	+/-	1.3E-09
Total phase (deg)	31.8	Apriori accel (us/s/s)	-3.19109852591E-05	Resid phase (deg)	-71.7	+/-	8.6

ph/seg (deg)	RMS 64.5	Theor. 20.6	Amplitude Search (2048X32)	0.260 +/- 0.020	0.252	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	84.5	36.0	Interp.	0.000	0.252	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	32.7	12.2	Inc. seg. avg.	0.429	0.429	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	24.5	21.2	Inc. frq. avg.	0.281	0.281	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

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.162.193QBF

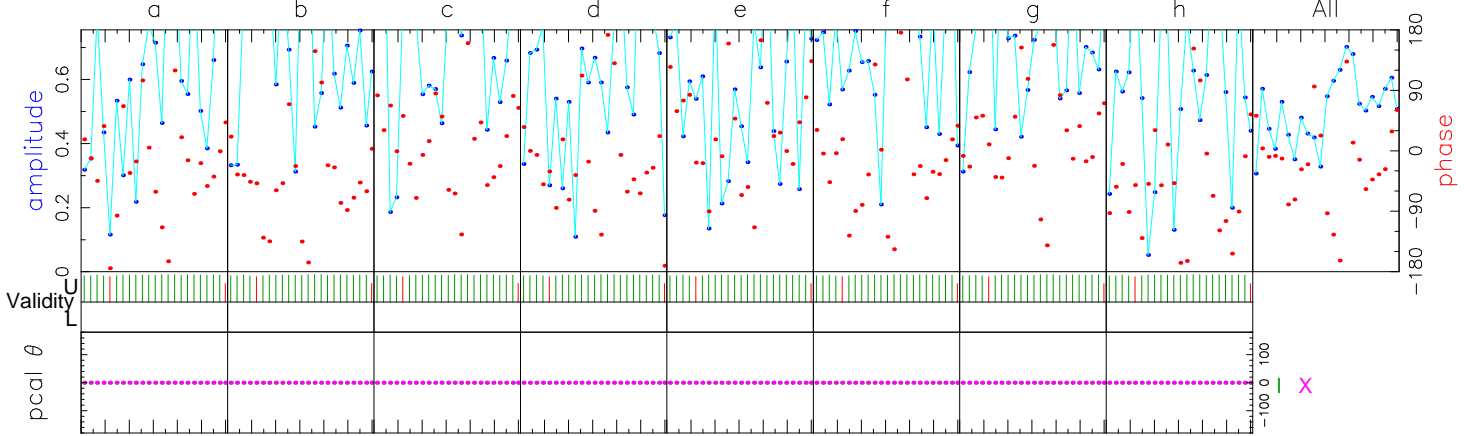


Fringe quality 9

SNR 12.9
 Int time 351.325
 Amp 0.252
 Phase -20.3
 PFD 2.4e-29
 Delays (us)
 SBD 0.022808
 MBD -0.000183
 Fringe rate (Hz)
 0.007412
 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
 2020:204:122520
 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



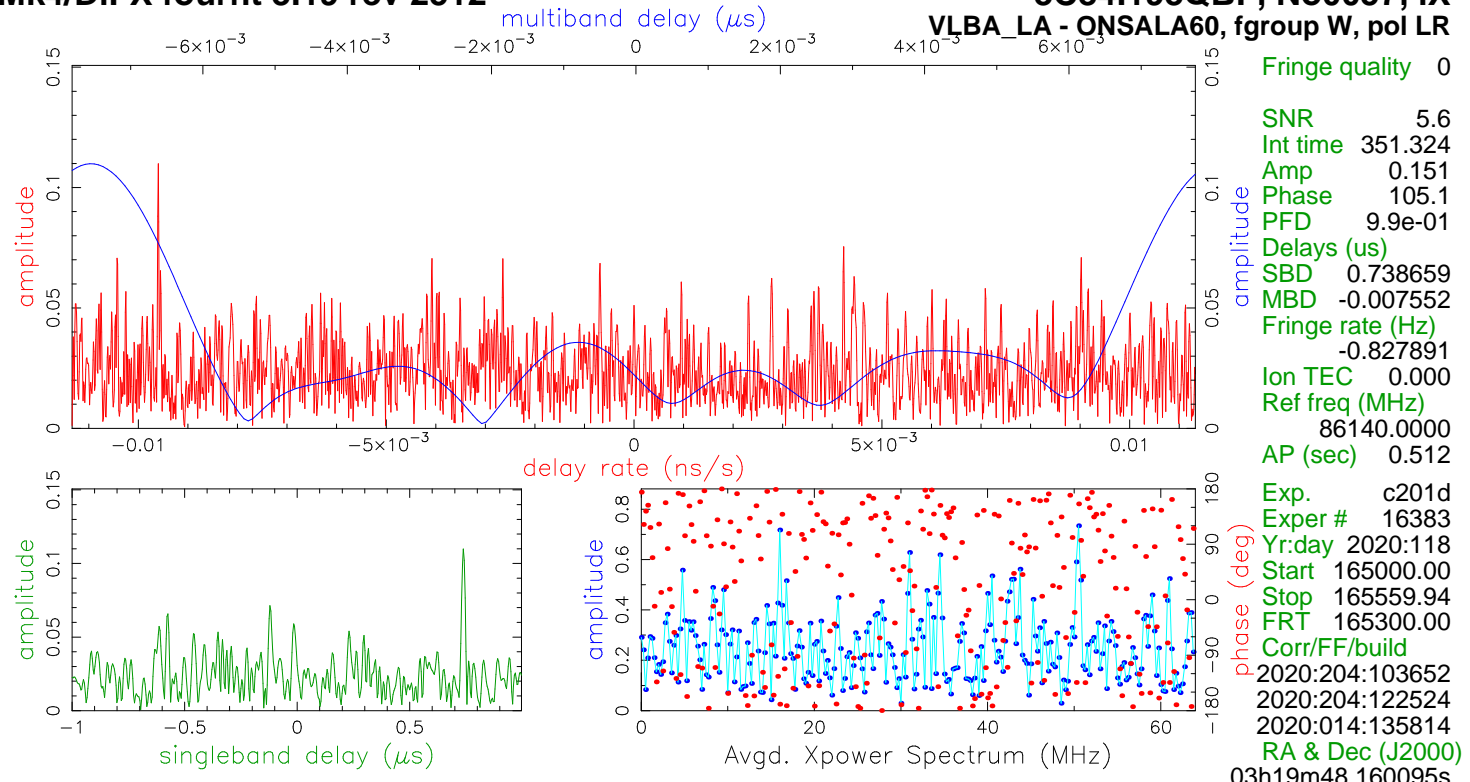
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	2.32437551023E+03	Apriori delay (usec)	2.32436006835E+03	Resid mbdelay (usec)	-1.83111E-04	+/-	8.4E-05
Sband delay (usec)	2.32438287610E+03	Apriori clock (usec)	-4.455267E+01	Resid sbdelay (usec)	2.28078E-02	+/-	6.7E-04
Phase delay (usec)	2.32436006769E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-6.55772E-07	+/-	2.9E-07
Delay rate (us/s)	1.28389972247E+00	Apriori rate (us/s)	1.28389963643E+00	Resid rate (us/s)	8.60423E-08	+/-	1.4E-09
Total phase (deg)	83.1	Apriori accel (us/s/s)	-3.19109852591E-05	Resid phase (deg)	-20.3	+/-	8.9

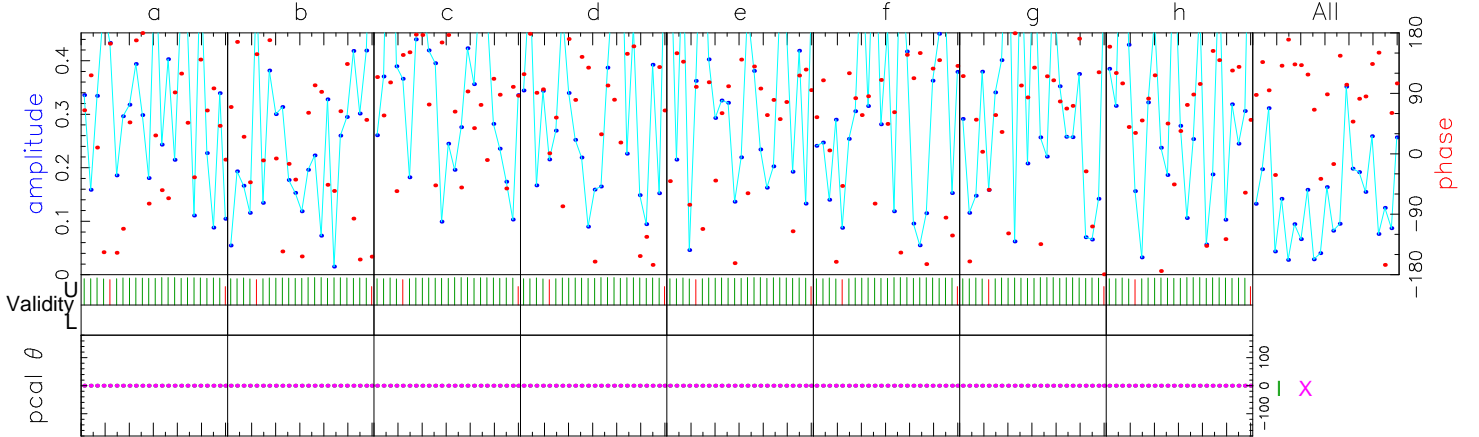
ph/seg (deg)	66.1	RMS	21.3	Theor.	21.3	Amplitude	0.252 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	108.9	Search (2048X32)	0.245	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	43.3	Inc. seg. avg.	0.473	Inc. frq. avg.	0.305	Sample rate(MISamp/s): 128		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.6	Inc. frq. avg.	0.305							ion window (TEC)	0.00	0.00	

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.176.193QBF



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

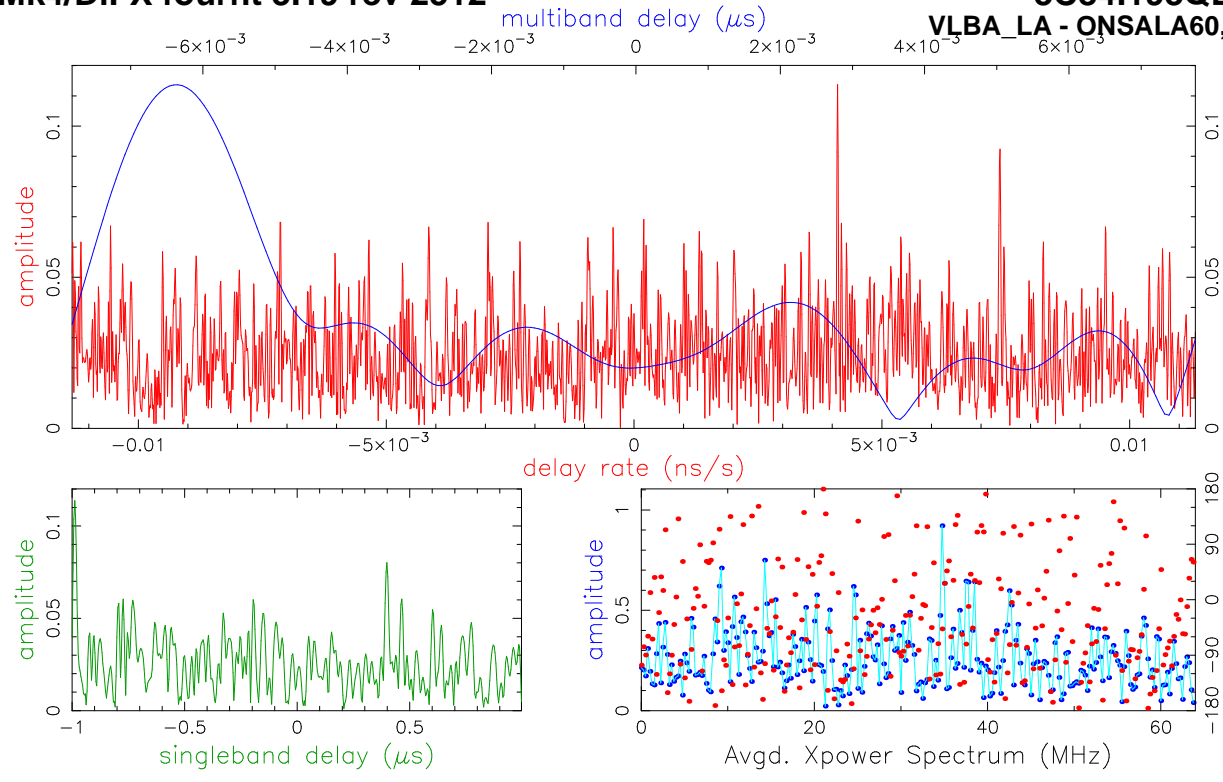


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	93.8	160.4	92.0	113.2	98.6	123.8	110.0	96.3	Phase	105.1
	0.1	0.0	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	89.3	81.3	410.2	489.1	162.4	349.2	78.8	172.3	Sbd box	446.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.32510251638E+03		Apriori delay (usec)		2.32436006835E+03		Resid mbdelay (usec)		-7.55196E-03	+/- 1.9E-04
Sband delay (usec)	2.32509872760E+03		Apriori clock (usec)		-4.4555267E+01		Resid sbdelay (usec)		7.38659E-01	+/- 1.5E-03
Phase delay (usec)	2.32436007174E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		3.38916E-06	+/- 6.6E-07
Delay rate (us/s)	1.28389002544E+00		Apriori rate (us/s)		1.28389963643E+00		Resid rate (us/s)		-9.61099E-06	+/- 3.2E-09
Total phase (deg)	208.5		Apriori accel (us/s/s)		-3.19109852591E-05		Resid phase (deg)		105.1	+/- 20.3

	RMS	Theor.	Amplitude	0.151 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	60.0	48.7	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	84.5	85.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	25.6	28.7	Inc. seg. avg.	0.143	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	39.1	50.2	Inc. frq. avg.	0.138	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00	

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.194.193QBF

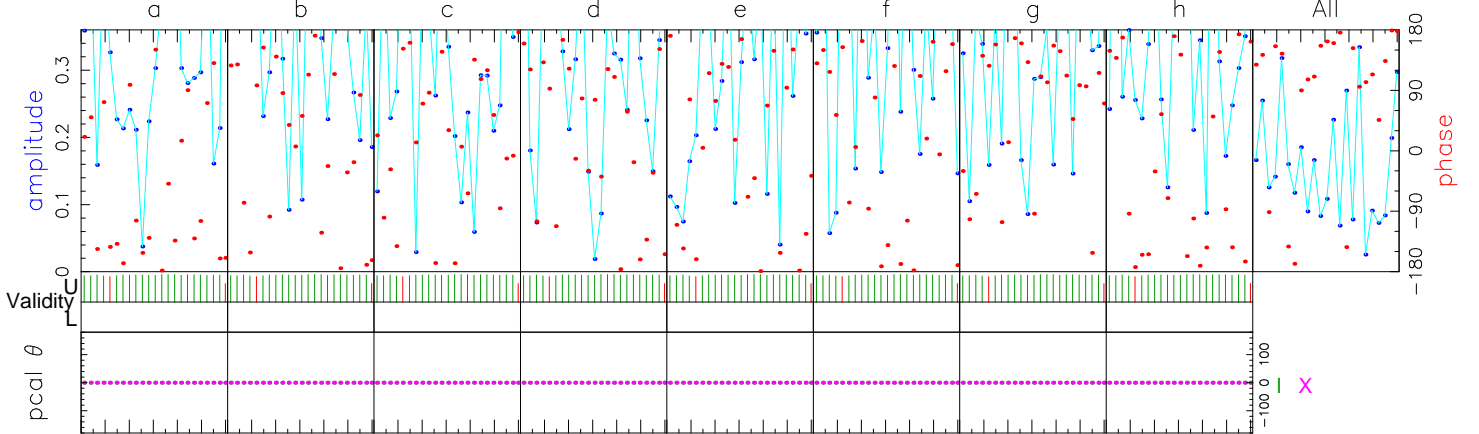


Fringe quality 0

SNR 5.8
 Int time 351.325
 Amp 0.120
 Phase 150.2
 PFD 7.6e-01
 Delays (us)
 SBD -0.988251
 MBD -0.006369
 Fringe rate (Hz)
 0.354000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

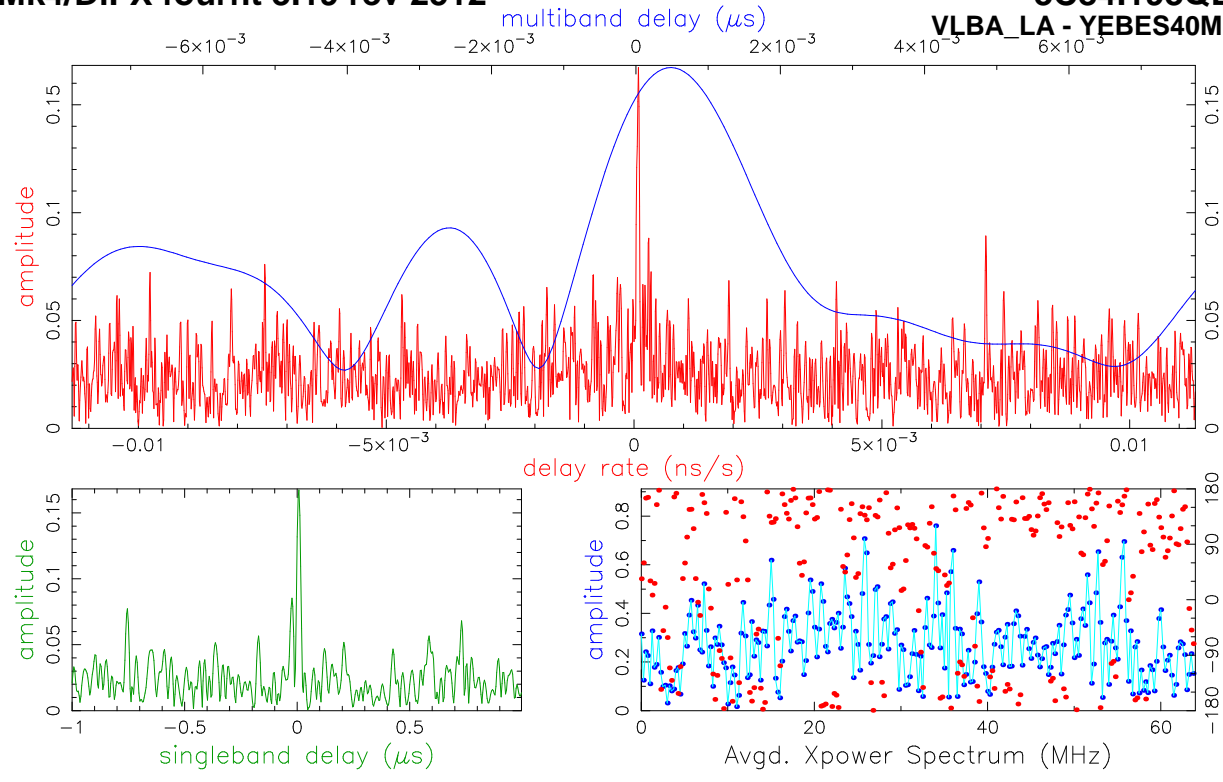
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122528
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



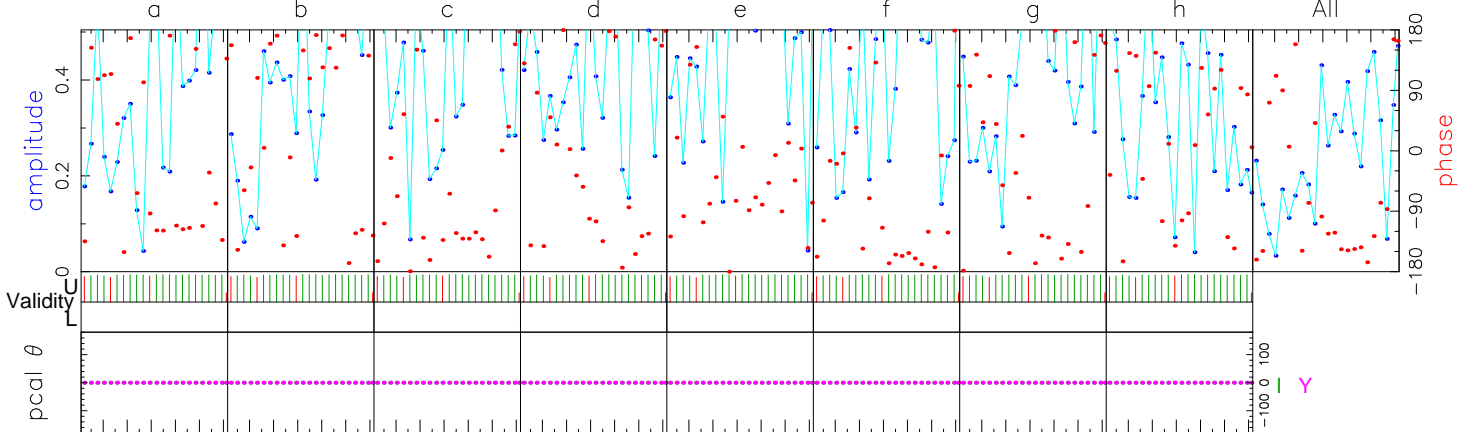
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.3	147.7	115.2	140.5	143.9	155.6	119.8	174.3	Phase	150.2
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	305.2	57.1	375.6	244.1	412.8	359.4	240.7	4.5	Sbd box	4.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.32336932469E+03		Apriori delay (usec)		2.32436006835E+03		Resid mbdelay (usec)		-6.36865E-03	+/- 1.9E-04
Sband delay (usec)	2.32337181760E+03		Apriori clock (usec)		-4.4555267E+01		Resid sbdelay (usec)		-9.88251E-01	+/- 1.5E-03
Phase delay (usec)	2.32436007319E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		4.84302E-06	+/- 6.3E-07
Delay rate (us/s)	1.28390374601E+00		Apriori rate (us/s)		1.28389963643E+00		Resid rate (us/s)		4.10958E-06	+/- 3.1E-09
Total phase (deg)	253.6		Apriori accel (us/s/s)		-3.19109852591E-05		Resid phase (deg)		150.2	+/- 19.7

	RMS	Theor.	Amplitude	0.120 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	48.3	47.1	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	83.9	82.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	26.1	27.8	Inc. seg. avg.	0.124	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.0	48.5	Inc. frq. avg.	0.115	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



Fringe quality 9
SNR 8.6
Int time 345.581
Amp 0.168
Phase -141.3
PFD 4.4e-09
Delays (us)
SBD 0.006750
MBD 0.000483
Fringe rate (Hz) 0.007524
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
2020:204:122518
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

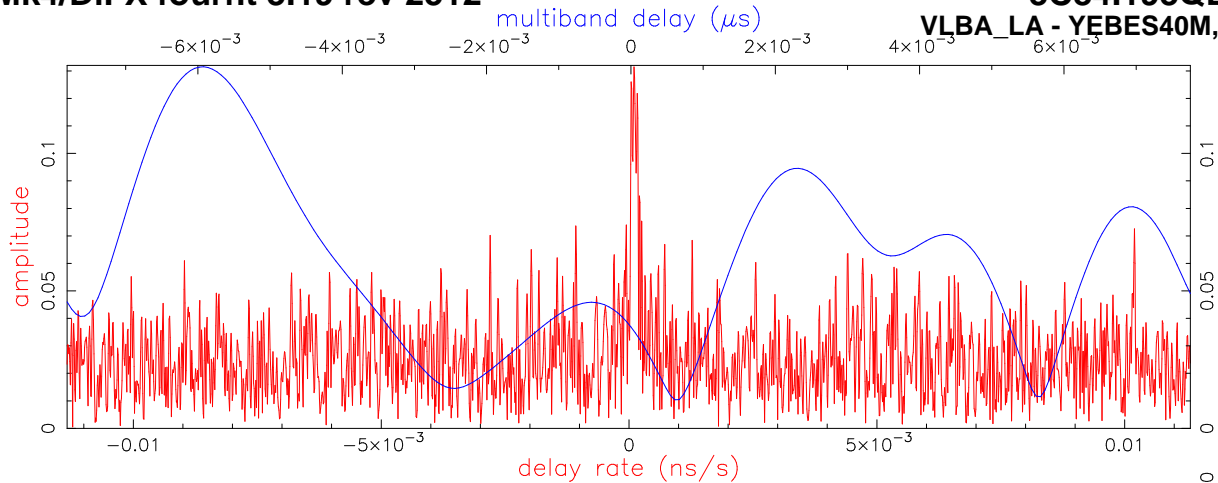


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-135.1	172.2	-123.8	-150.3	-60.1	-151.2	-153.7	133.1	Phase	-141.3
	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.1	Ampl.	0.2
	259.0	258.3	258.0	258.5	258.4	258.6	257.4	106.0	Sbd box	258.7
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.09119433965E+03	Apriori delay (usec)	1.09119385668E+03	Resid mbdelay (usec)	4.82966E-04	+/-	1.3E-04
Sband delay (usec)	1.09120060618E+03	Apriori clock (usec)	-1.5718672E+01	Resid sbdelay (usec)	6.74950E-03	+/-	1.0E-03
Phase delay (usec)	1.09119385212E+03	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-4.55516E-06	+/-	4.3E-07
Delay rate (us/s)	1.42374502681E+00	Apriori rate (us/s)	1.42374493946E+00	Resid rate (us/s)	8.73411E-08	+/-	2.1E-09
Total phase (deg)	151.9	Apriori accel (us/s/s)	-1.07588907563E-05	Resid phase (deg)	-141.3	+/-	13.4

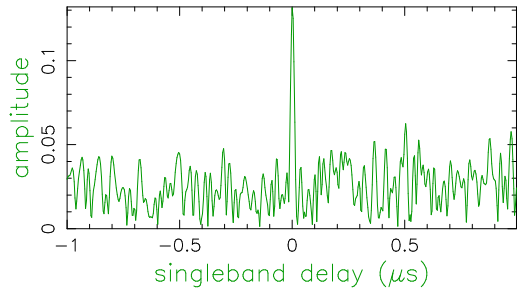
ph/seg (deg)	74.7	Theor.	32.1	Amplitude	0.168 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	86.3		56.1	Search (2048X32)	0.167	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	52.9		18.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	46.1		33.1	Inc. seg. avg.	0.209	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.205	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 66.2 el 52.6 pa -83.2 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10912.798 -1106.924 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IY..193QBF Output file: /Exps/c201d/v1/1234/No0057/IY.W.166.193QBF

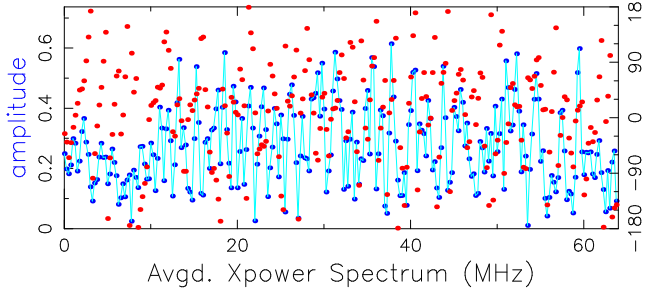


Fringe quality 0

SNR 6.7
 Int time 345.582
 Amp 0.132
 Phase 102.4
 PFD 5.6e-03
 Delays (us)
 SBD 0.000842
 MBD -0.005908
 Fringe rate (Hz)
 0.008964
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

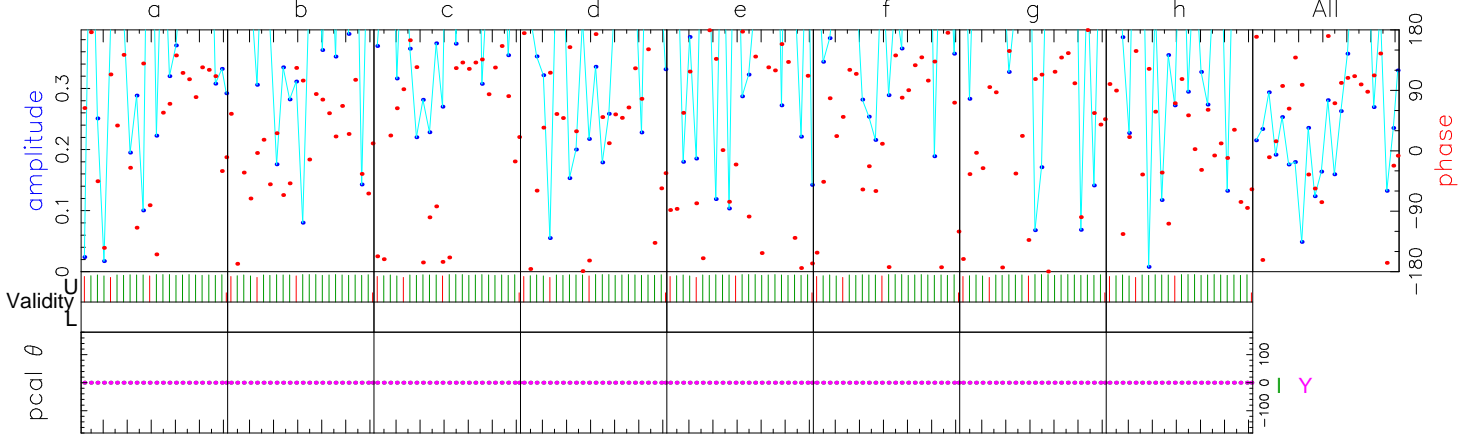


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122521
 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

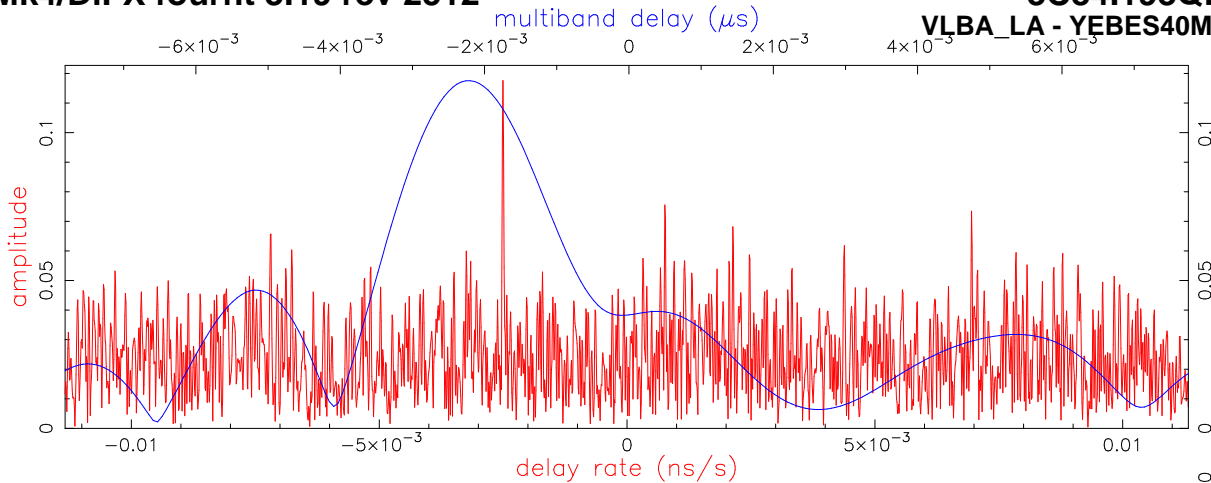


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	1.09118794886E+03	Apriori delay (usec)	1.09119385668E+03	Resid mbdelay (usec)	-5.90782E-03	+/-	1.6E-04
Sband delay (usec)	1.09119469868E+03	Apriori clock (usec)	-1.5718672E+01	Resid sbdelay (usec)	8.42000E-04	+/-	1.3E-03
Phase delay (usec)	1.09119385998E+03	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	3.30351E-06	+/-	5.5E-07
Delay rate (us/s)	1.42374504353E+00	Apriori rate (us/s)	1.42374493946E+00	Resid rate (us/s)	1.04066E-07	+/-	2.7E-09
Total phase (deg)	35.6	Apriori accel (us/s/s)	-1.07588907563E-05	Resid phase (deg)	102.4	+/-	17.1

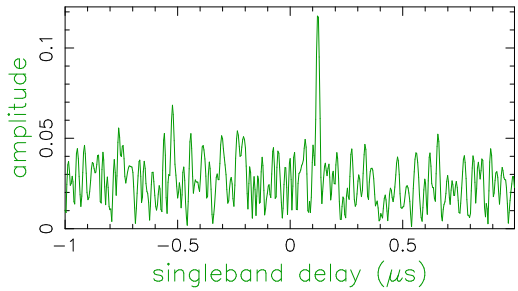
ph/seg (deg)	81.4	Theor.	Amplitude	0.132 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	143.0	40.9	Search (2048X32)	0.130	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	55.2	24.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	53.0	42.1	Inc. seg. avg.	0.213	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.172	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 66.2 el 52.6 pa -83.2 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10912.798 -1106.924 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IY..193QBF Output file: /Exps/c201d/v1/1234/No0057/IY.W.182.193QBF

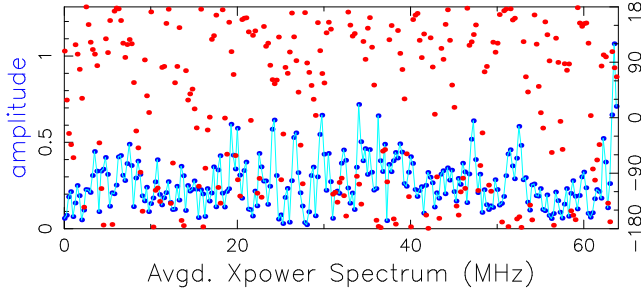


Fringe quality 0

SNR 6.1
Int time 345.581
Amp 0.123
Phase 150.3
PFD 2.2e-01
Delays (us)
SBD 0.122942
MBD -0.002220
Fringe rate (Hz)
-0.216223
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

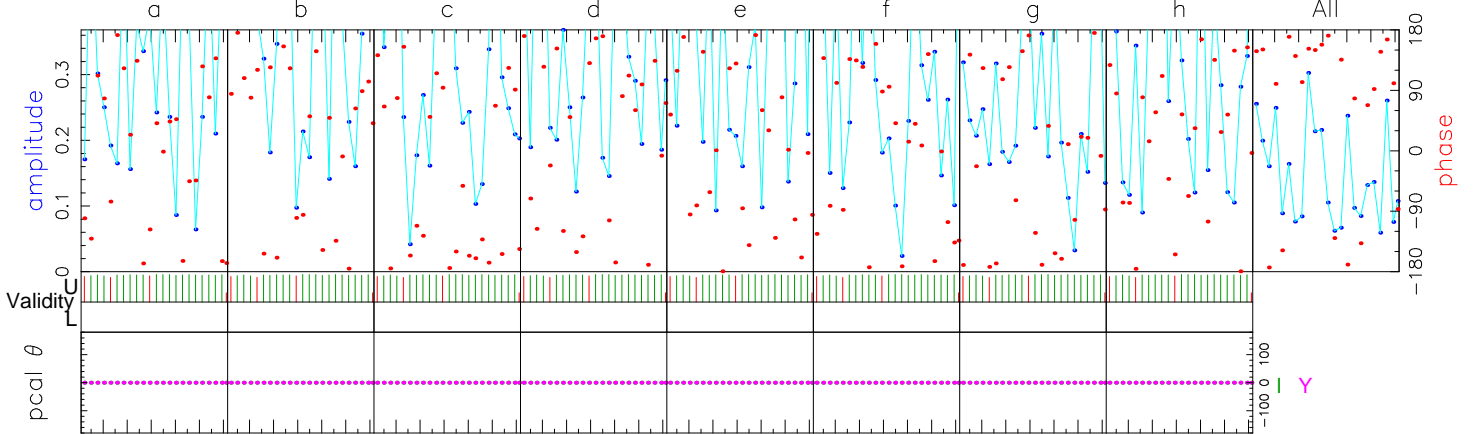


delay rate (ns/s)



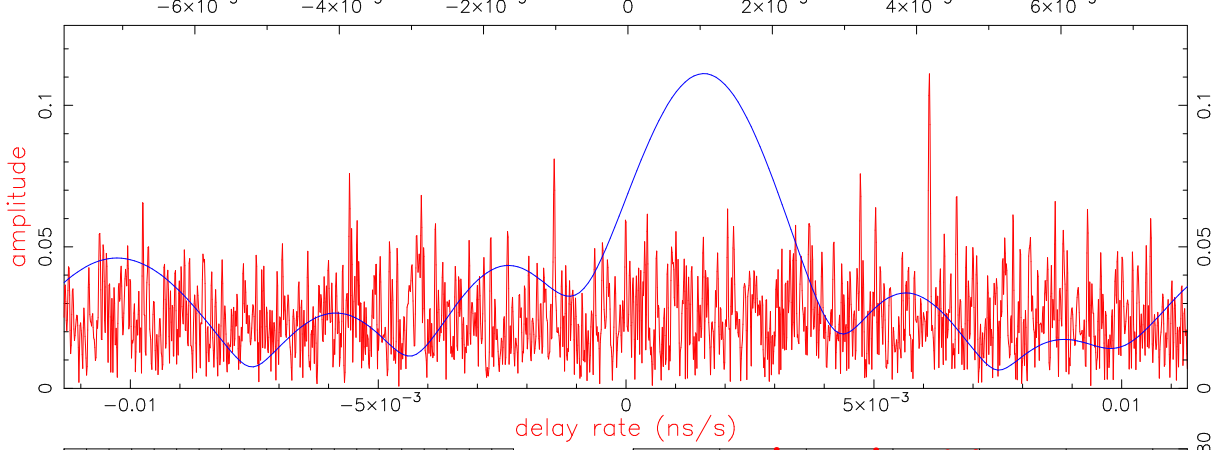
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122526
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

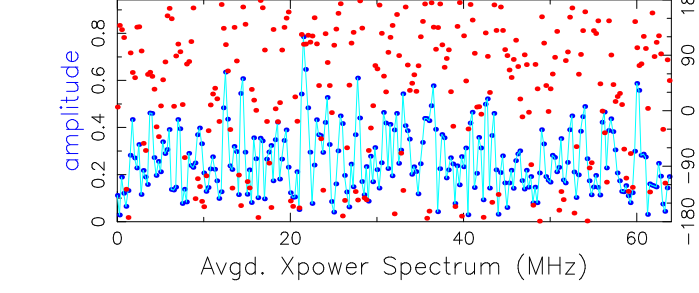
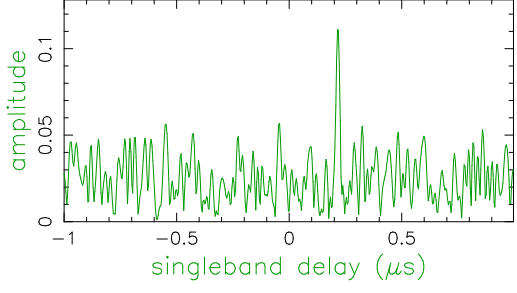


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.09131663620E+03			1.09119385668E+03				-2.22048E-03	+/- 1.8E-04
Sband delay (usec)		1.09131679918E+03			-1.5718672E+01				1.22942E-01	+/- 1.4E-03
Phase delay (usec)		1.09119386153E+03			-3.7100000E-07				4.84796E-06	+/- 6.0E-07
Delay rate (us/s)		1.423744242933E+00			1.42374493946E+00				-2.51014E-06	+/- 2.9E-09
Total phase (deg)			83.5		-1.07588907563E-05				150.3	+/- 18.7
	RMS	Theor.	Amplitude	0.123 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	46.3	44.9	Search (2048X32)	0.115	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	67.4	78.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	29.0	26.5	Inc. seg. avg.	0.117	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.7	46.3	Inc. frq. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

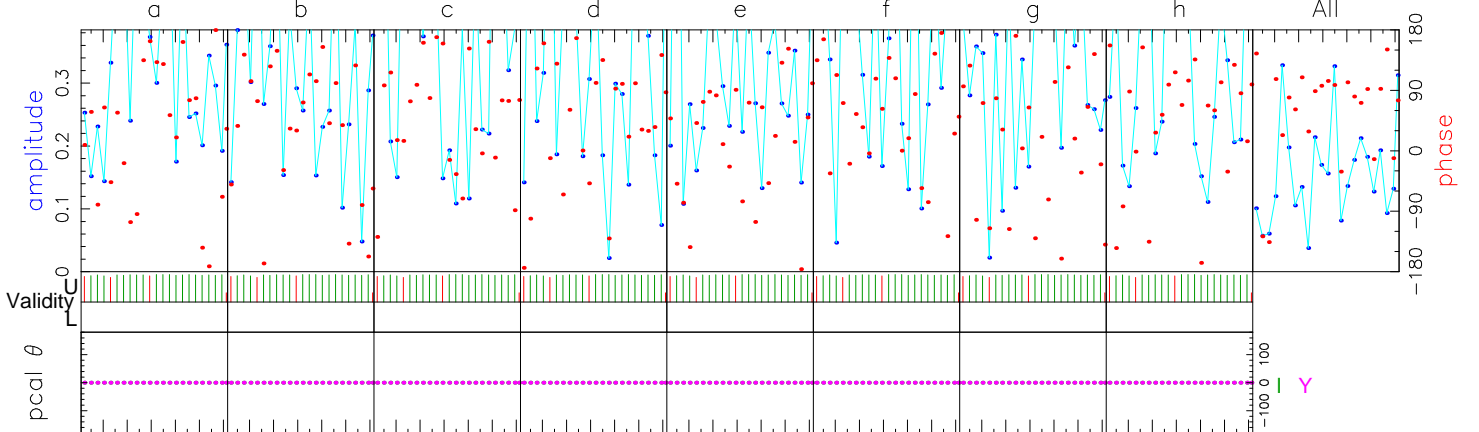
multiband delay (μs)



Fringe quality 0
 SNR 5.8
 Int time 345.582
 Amp 0.128
 Phase 80.8
 PFD 8.7e-01
 Delays (us)
 SBD 0.216690
 MBD 0.001087
 Fringe rate (Hz) 0.528440
 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
 2020:204:122530
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

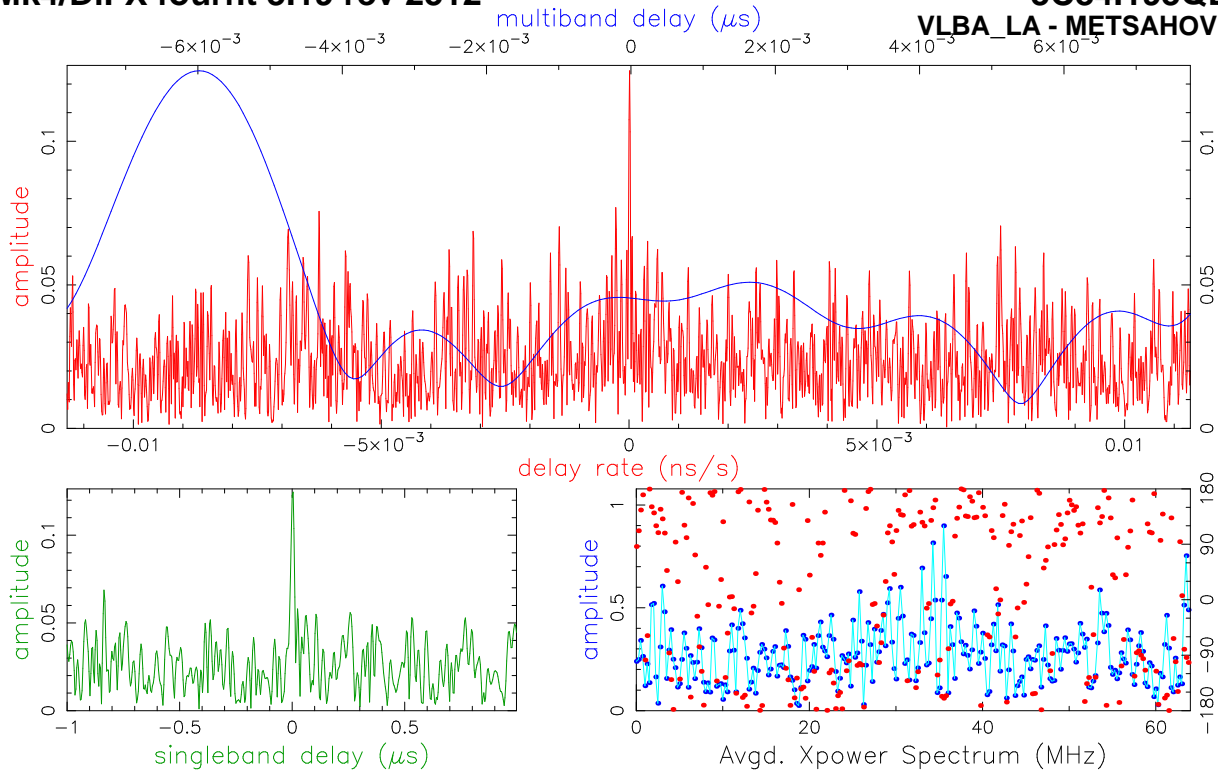


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.09141369373E+03				1.09119385668E+03			1.08705E-03	+/- 1.9E-04
Sband delay (usec)		1.09141054643E+03				-1.5718672E+01			2.16690E-01	+/- 1.5E-03
Phase delay (usec)		1.09119385929E+03				-3.7100000E-07			2.60705E-06	+/- 6.4E-07
Delay rate (us/s)		1.42375107413E+00				1.42374493946E+00			6.13466E-06	+/- 3.1E-09
Total phase (deg)			14.0			-1.07588907563E-05			80.8	+/- 19.9
pcal mode:						MANUAL, MANUAL				
pcal rate:						0.000E+00, 0.000E+00 (us/s)				
Bits/sample:						2x2				
Sample rate (MSamp/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) 64.1 47.7 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.9 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.3 28.1 Inc. seg. avg. 0.130 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.7 49.1 Inc. frq. avg. 0.122 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 66.2 el 52.6 pa -83.2 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -10912.798 -1106.924 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IY..193QBF Output file: /Exps/c201d/v1/1234/No0057/IY.W.223.193QBF

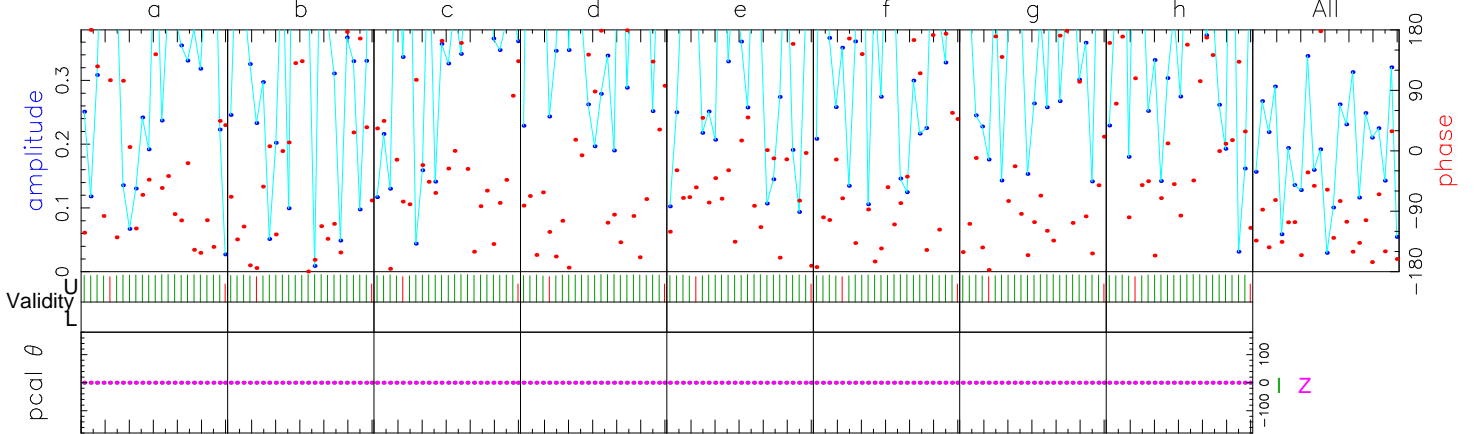


Fringe quality 0

SNR 6.5
 Int time 350.853
 Amp 0.126
 Phase -104.1
 PFD 2.6e-02
 Delays (us)
 SBD 0.002324
 MBD -0.006000
 Fringe rate (Hz)
 0.001010
 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
 2020:204:122517
 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



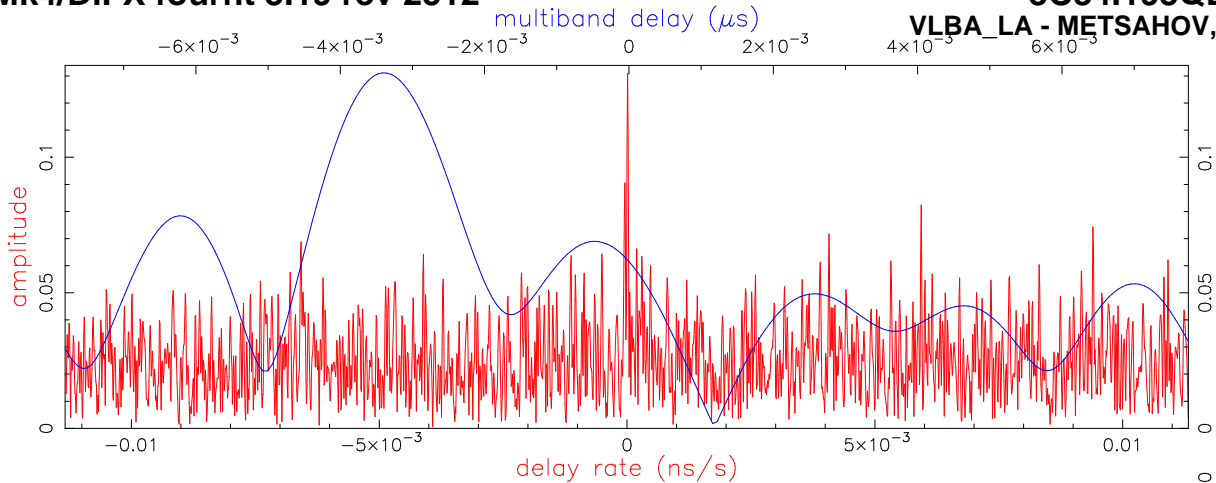
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.4	-141.6	-60.8	-111.5	-64.2	-137.5	-113.4	40.5	Phase	-104.1
	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.0	Ampl.	0.1
	255.3	175.3	127.9	259.3	256.7	215.3	255.6	388.2	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.90148809949E+03	Apriori delay (usec)	3.90147847444E+03	Resid mbdelay (usec)	-5.99995E-03	+/-	1.7E-04
Sband delay (usec)	3.90148079819E+03	Apriori clock (usec)	-3.6126151E+00	Resid sbdelay (usec)	2.32375E-03	+/-	1.3E-03
Phase delay (usec)	3.90147847108E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-3.35823E-06	+/-	5.7E-07
Delay rate (us/s)	1.26530158016E+00	Apriori rate (us/s)	1.26530156843E+00	Resid rate (us/s)	1.17309E-08	+/-	2.7E-09
Total phase (deg)		Apriori accel (us/s/s)	-4.19961907010E-05	Resid phase (deg)	-104.1	+/-	17.7

ph/seg (deg)	49.5	Theor.	42.4	Amplitude	0.126 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.2	Search (2048X32)	0.124	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	67.3	Inc. seg. avg.	0.152	Inc. frq. avg.	0.132	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	47.1	Inc. frq. avg.	0.132	Sample rate (MSamp/s): 128		Data rate (Mb/s): 2048	nlags: 256
							t_cohere infinite

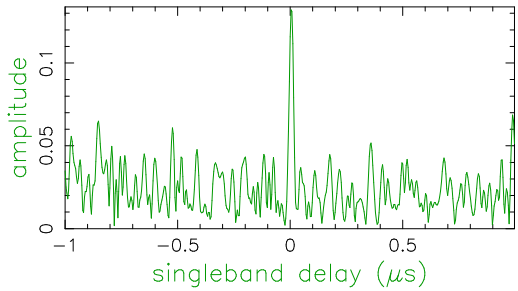
I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.164.193QBF

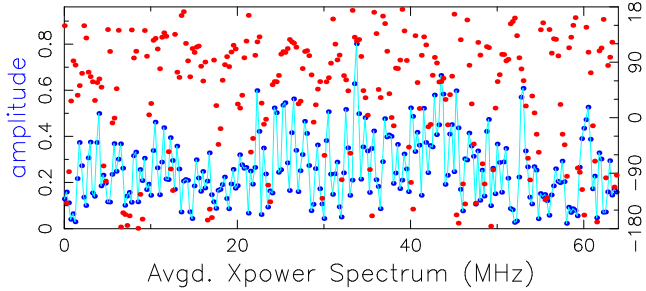


Fringe quality 0

SNR 6.9
 Int time 350.853
 Amp 0.134
 Phase -159.5
 PFD 2.0e-03
 Delays (us)
 SBD 0.005663
 MBD -0.003448
 Fringe rate (Hz)
 0.000672
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

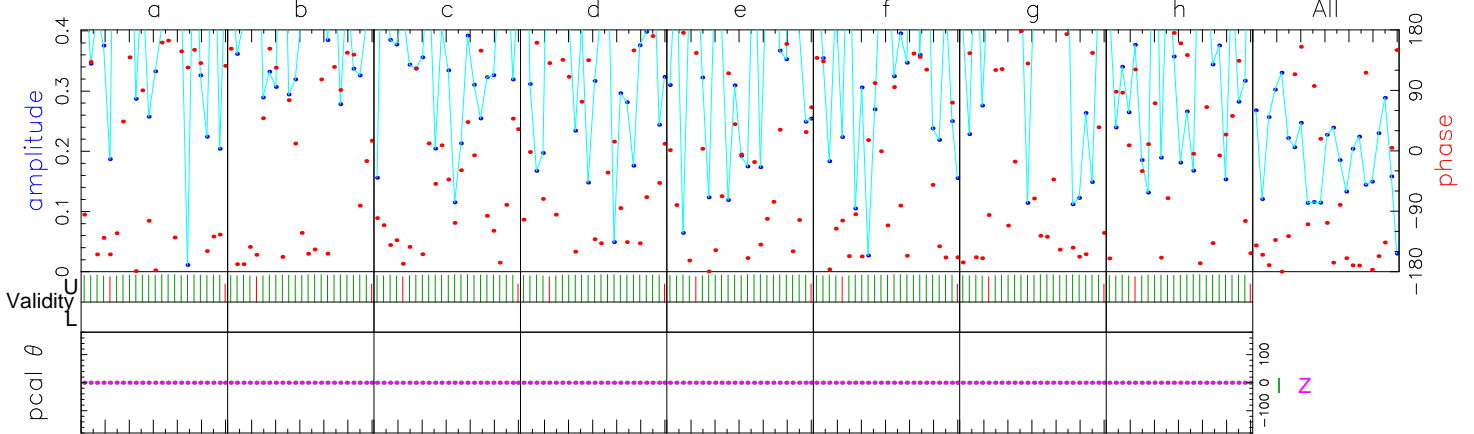


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122521
 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



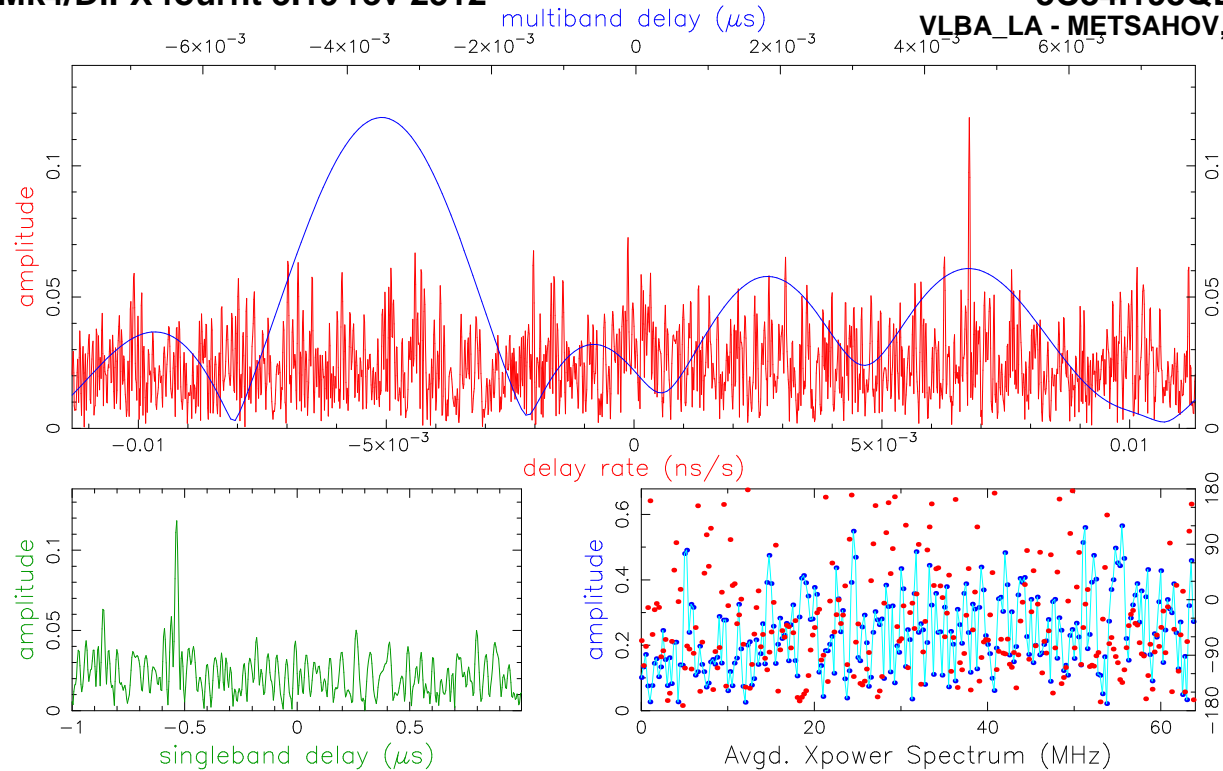
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.1	175.6	-96.4	-135.1	-100.6	179.1	-148.7	126.1	Phase	-159.5
	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	259.1	258.3	8.5	428.9	289.5	257.2	256.9	103.3	Sbd box	258.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.90149065133E+03	Apriori delay (usec)	3.90147847444E+03	Resid mbdelay (usec)	-3.44810E-03	+/-	1.6E-04
Sband delay (usec)	3.90148413769E+03	Apriori clock (usec)	-3.6126151E+00	Resid sbdelay (usec)	5.66325E-03	+/-	1.3E-03
Phase delay (usec)	3.90147846929E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-5.14498E-06	+/-	5.4E-07
Delay rate (us/s)	1.26530157623E+00	Apriori rate (us/s)	1.26530156843E+00	Resid rate (us/s)	7.79768E-09	+/-	2.6E-09
Total phase (deg)	124.2	Apriori accel (us/s/s)	-4.19961907010E-05	Resid phase (deg)	-159.5	+/-	16.7

ph/seg (deg)	RMS 67.5	Theor. 40.1	Amplitude Search (2048X32)	0.134 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.5	69.9	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)	50.0	23.6	Inc. seg. avg.	0.159	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	49.6	41.2	Inc. frq. avg.	0.146	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.180.193QBF

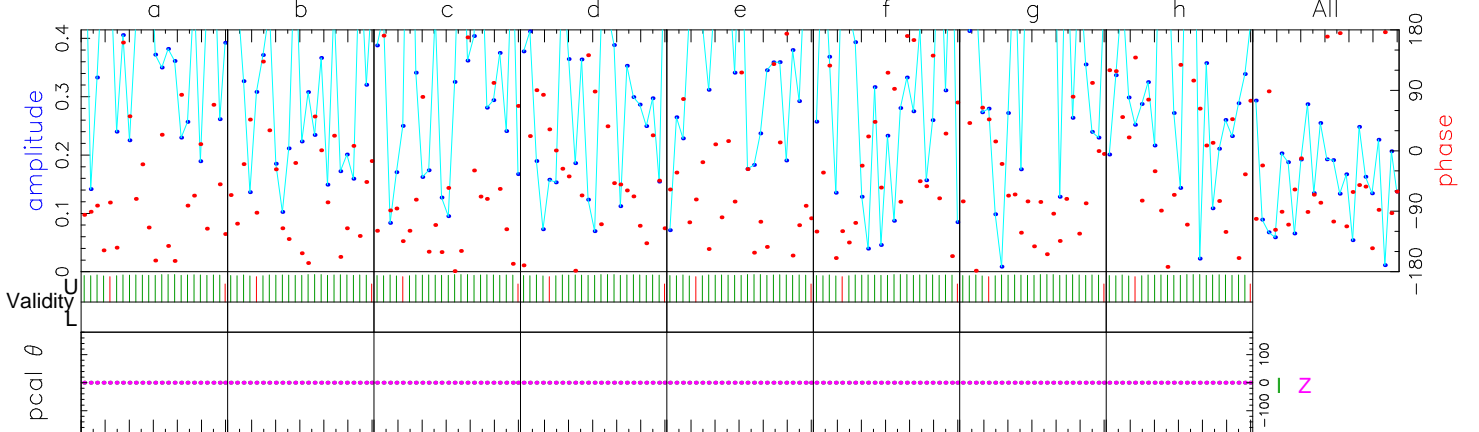


Fringe quality 0

SNR 6.1
 Int time 350.853
 Amp 0.138
 Phase -89.4
 PFD 2.6e-01
 Delays (us)
 SBD -0.535940
 MBD -0.003562
 Fringe rate (Hz)
 0.583164
 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
 2020:204:122525
 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

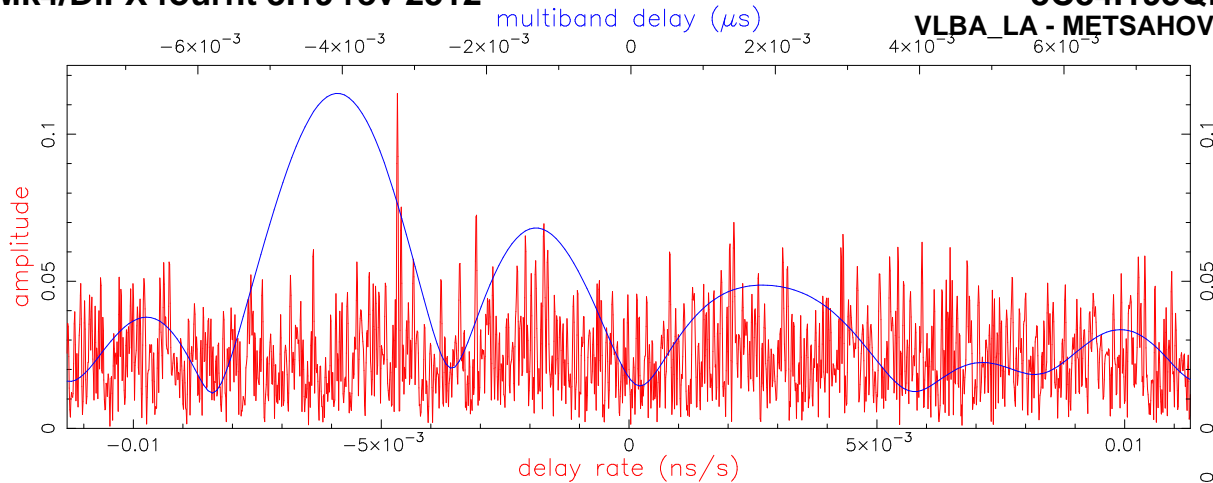


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-98.7	-52.0	-123.1	-51.0	-82.8	-111.6	-85.1	25.4	Phase	-89.4
	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.0	Ampl.	0.1
	93.4	211.2	120.5	259.5	155.4	447.3	257.5	188.0	Sbd box	119.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 3.90094366212E+03 Apriori delay (usec) 3.90147847444E+03 Resid mbdelay (usec) -3.56232E-03 +/- 1.8E-04
 Sband delay (usec) 3.90094253494E+03 Apriori clock (usec) -3.6126151E+00 Resid sbdelay (usec) -5.35940E-01 +/- 1.4E-03
 Phase delay (usec) 3.90147847155E+03 Apriori clockrate (us/s) -1.6700000E-07 Resid phdelay (usec) -2.88325E-06 +/- 6.1E-07
 Delay rate (us/s) 1.26530833839E+00 Apriori rate (us/s) 1.26530156843E+00 Resid rate (us/s) 6.76996E-06 +/- 2.9E-09
 Total phase (deg) 194.3 Apriori accel (us/s/s) -4.19961907010E-05 Resid phase (deg) -89.4 +/- 18.8

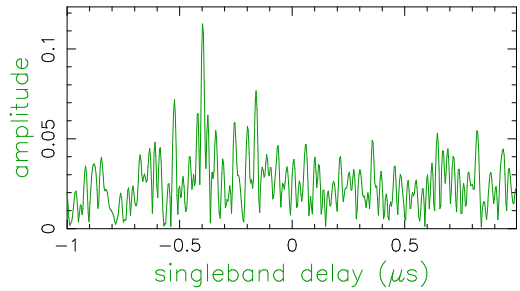
RMS Theor. Amplitude 0.138 +/- 0.023 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 60.2 45.1 Search (2048X32) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.2 78.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 54.5 26.6 Inc. seg. avg. 0.143 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 52.1 46.5 Inc. frq. avg. 0.138 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.198.193QBF

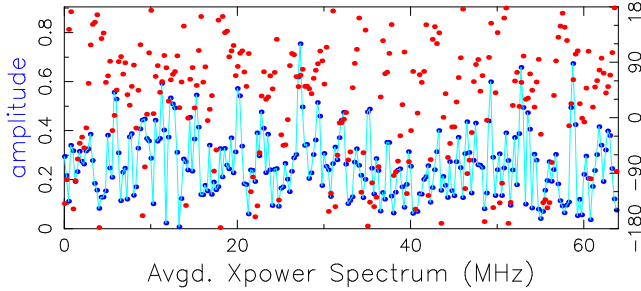


Fringe quality 0

SNR 5.9
 Int time 350.853
 Amp 0.123
 Phase -137.9
 PFD 6.3e-01
 Delays (us)
 SBD -0.397322
 MBD -0.004075
 Fringe rate (Hz)
 -0.403243
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

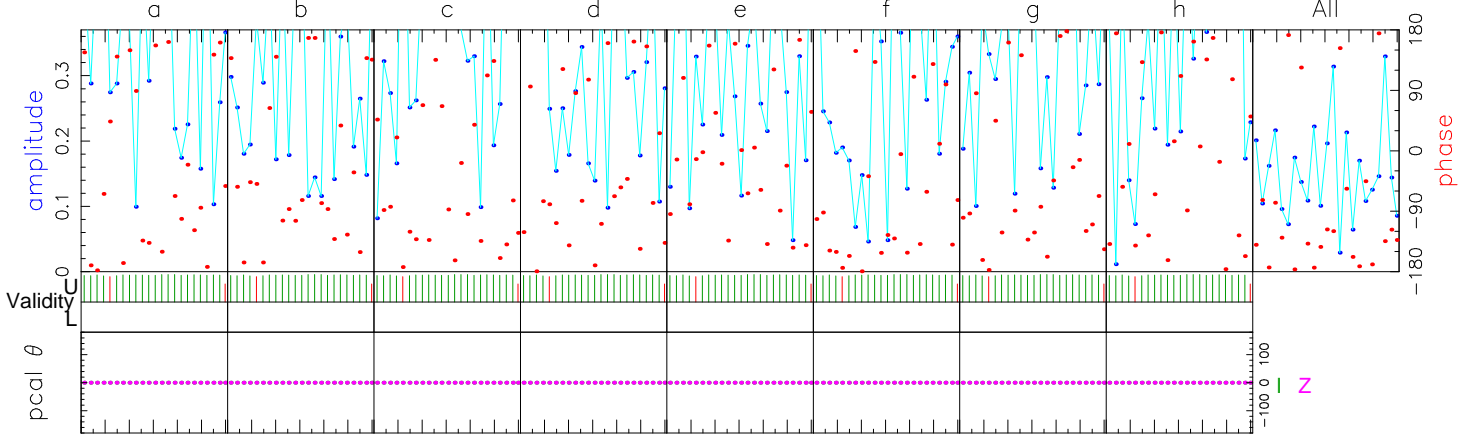


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122529
 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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	3.90108377402E+03	Apriori delay (usec)	3.90147847444E+03	Resid mbdelay (usec)	-4.07542E-03	+/-	1.8E-04
Sband delay (usec)	3.90108115219E+03	Apriori clock (usec)	-3.6126151E+00	Resid sbdelay (usec)	-3.97322E-01	+/-	1.5E-03
Phase delay (usec)	3.90147846999E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-4.44830E-06	+/-	6.3E-07
Delay rate (us/s)	1.26529688717E+00	Apriori rate (us/s)	1.26530156843E+00	Resid rate (us/s)	-4.68125E-06	+/-	3.0E-09
Total phase (deg)	145.8	Apriori accel (us/s/s)	-4.19961907010E-05	Resid phase (deg)	-137.9	+/-	19.5

ph/seg (deg)	47.2	Theor.	46.7	Amplitude	0.123 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.4	Search (2048X32)	0.110	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	60.3	Inc. seg. avg.	0.125	Inc. frq. avg.	0.122	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	44.4	Inc. frq. avg.	0.122			Sample rate (MSamp/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

I: az 66.2 el 52.6 pa -83.2 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9735.658 -4739.899 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IZ...193QBF Output file: /Exps/c201d/v1/1234/No0057/IZ.W.218.193QBF