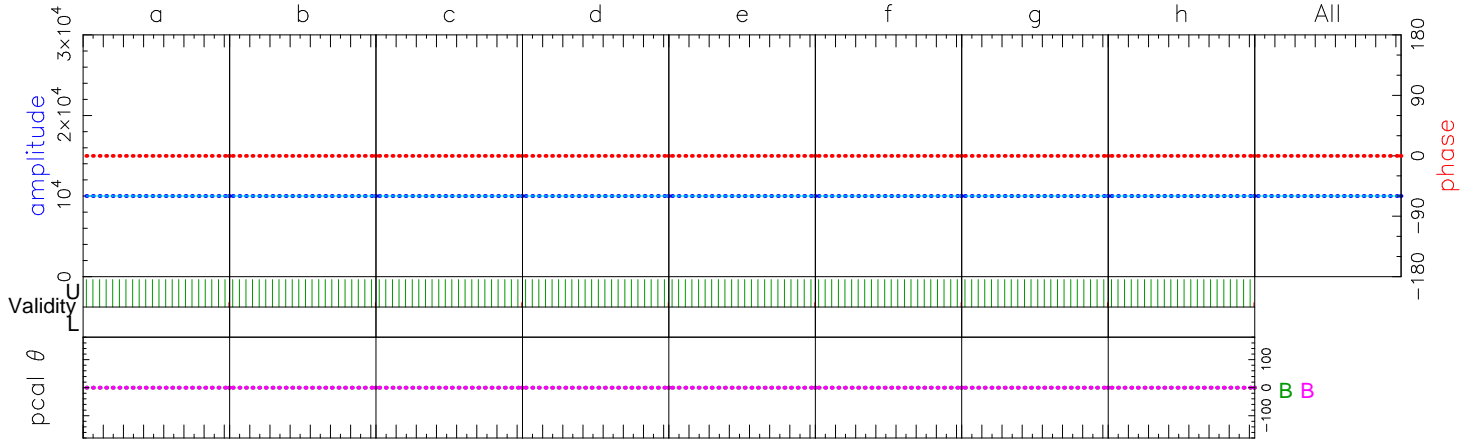


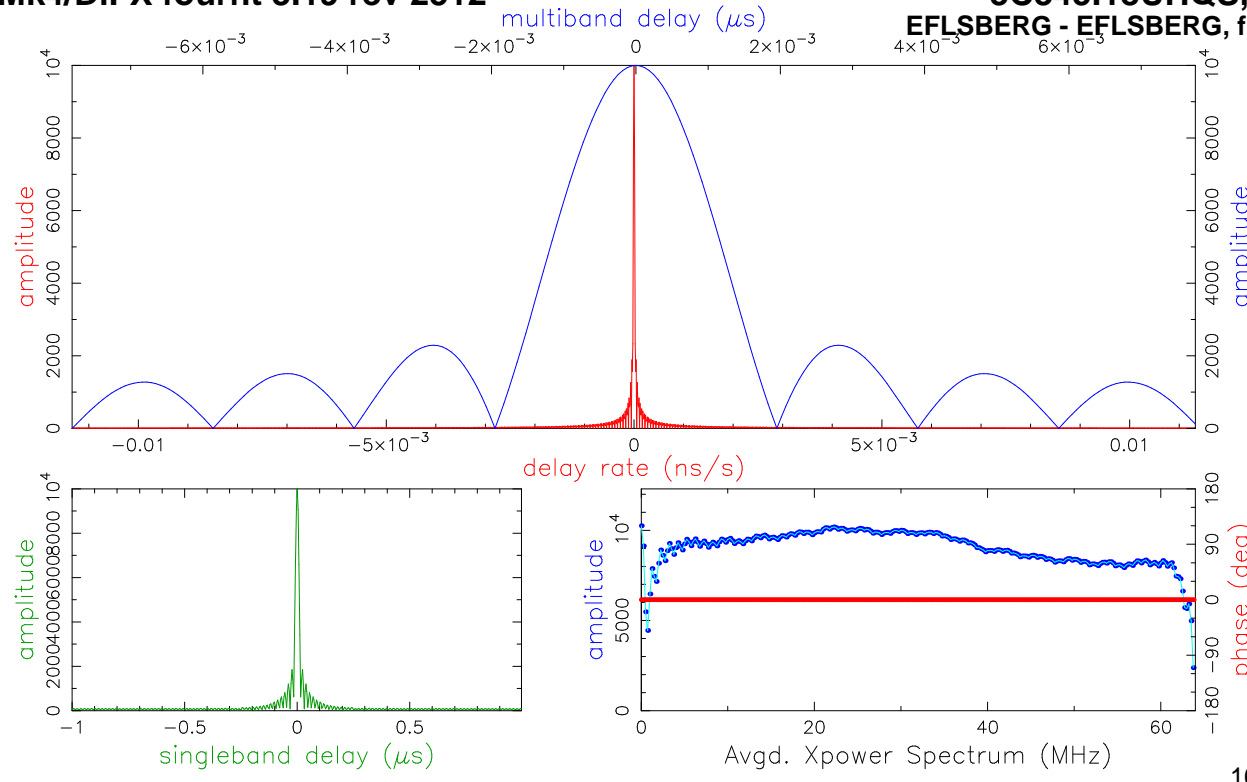
Fringe quality 9  
SNR 560306.9  
Int time 419.814  
Amp 10000.000  
Phase -0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz) 0.000000  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c201b  
Yr:day 16383  
Start 2020:117  
Stop 2020:117  
FRT 084100.00  
Corr/FF/build 084430.00  
2020:198:173216  
2020:199:143530  
2020:014:135814  
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



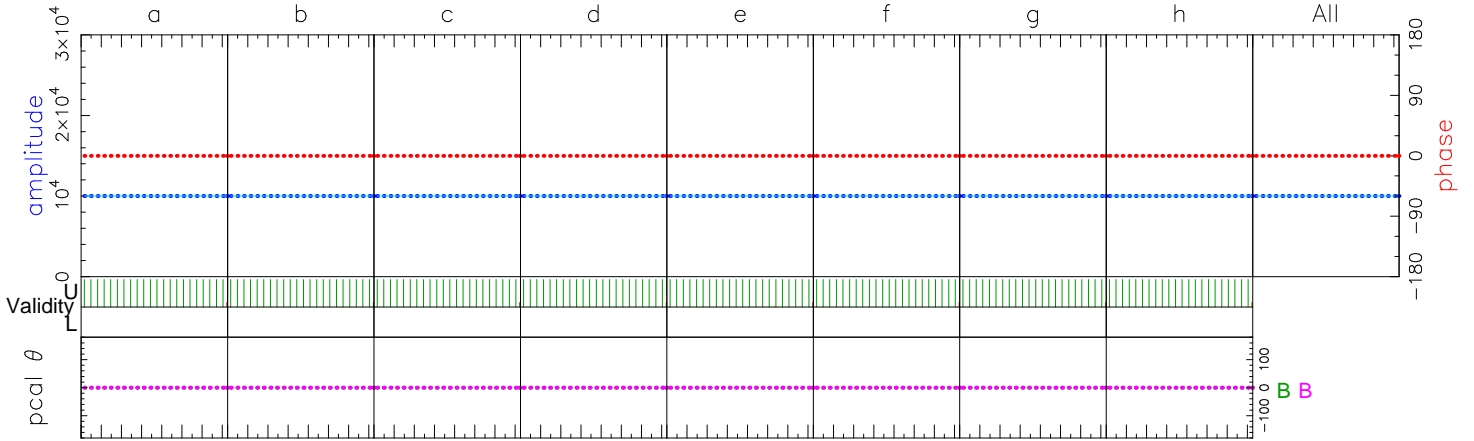
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	-1.04475405752E-21	-1.04475405752E-21	-1.04475405752E-21	-1.04475405752E-21	-1.04475405752E-21	-1.04475405752E-21	-1.04475405752E-21	-1.04475405752E-21	-1.04475E-21	+/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.7E-14
Total phase (deg)			-0.0						-0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 B: az 304.4 el 23.7 pa 42.9 B: az 304.4 el 23.7 pa 42.9 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BB..18UHQ5 Output file: /Exps/c201b/v1/1234/No0057/BB.W.20.18UHQ5 simultaneous interpolator



Fringe quality 9  
 SNR 560306.9  
 Int time 419.814  
 Amp 10000.000  
 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. c201b  
 Exper # 16383  
 Yr:day 2020:117  
 Start 084100.00  
 Stop 084759.84  
 FRT 084430.00  
 Corr/FF/build  
 2020:198:173216  
 2020:199:143525  
 2020:014:135814  
 RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

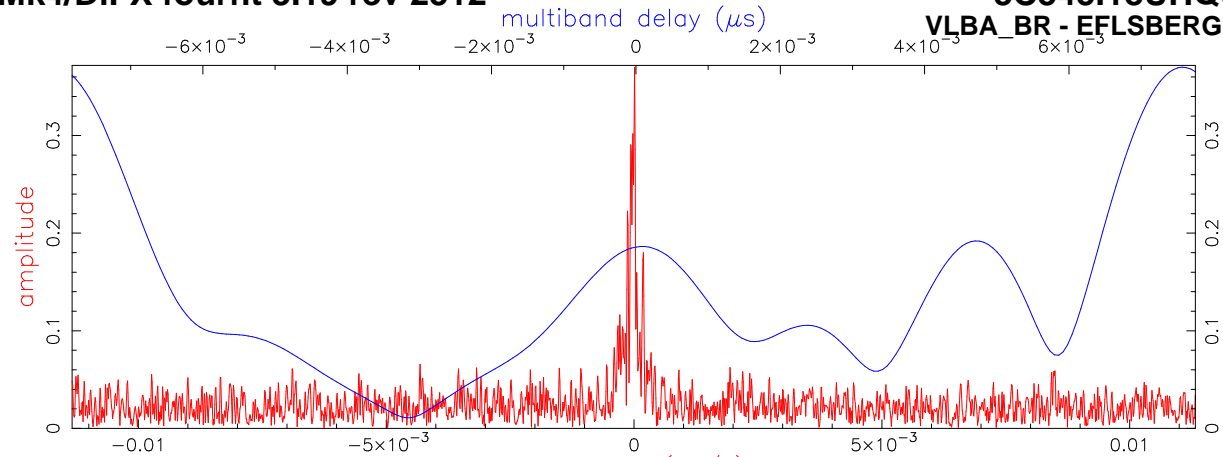
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

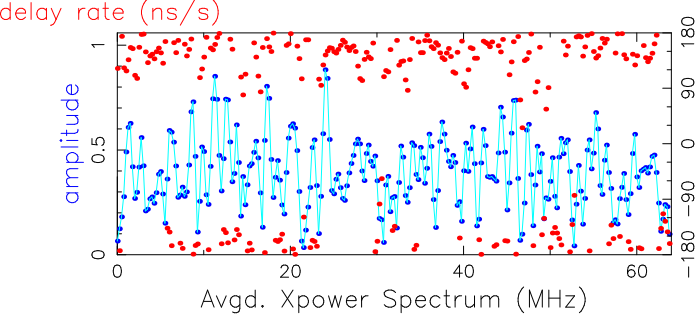
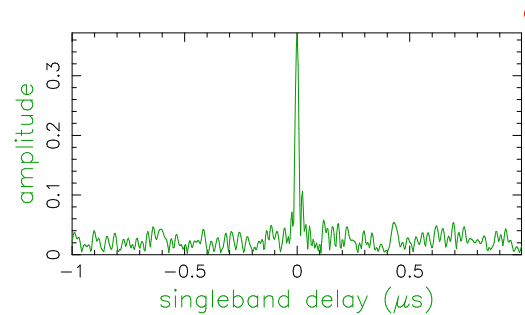
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-2.98234668995E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.98235E-20	+/-	6.6E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.7E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00



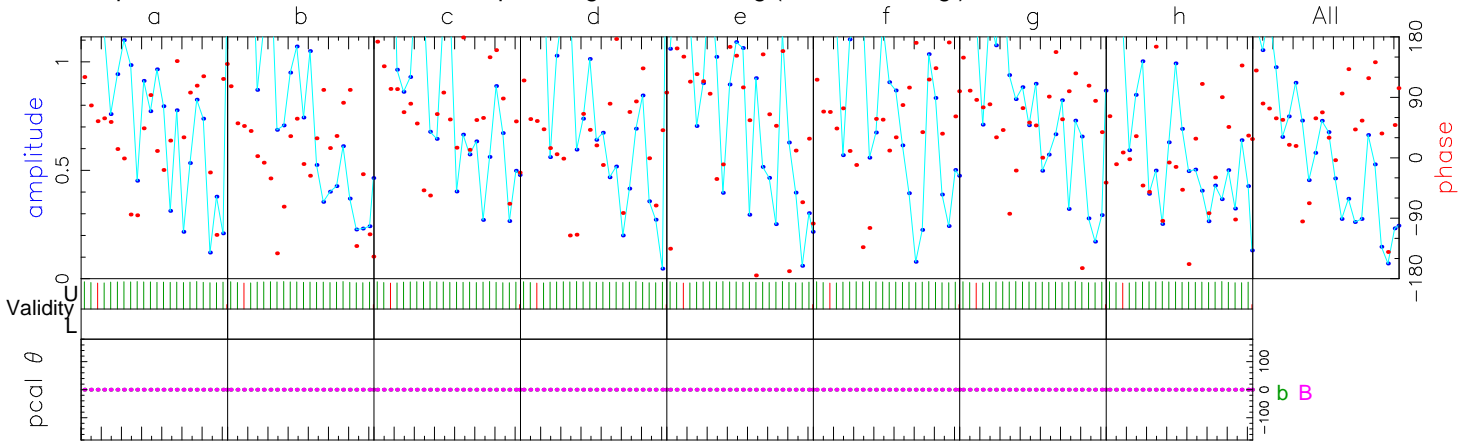
Fringe quality 8

SNR 20.6  
 Int time 409.605  
 Amp 0.372  
 Phase 64.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000906  
 MBD 0.007549  
 Fringe rate (Hz)  
 0.000776  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c201b  
 Exper # 16383  
 Yr:day 2020:117  
 Start 084100.00  
 Stop 084759.84  
 FRT 084430.00  
 Corr/FF/build  
 2020:198:173216  
 2020:199:143525  
 2020:014:135814  
 RA & Dec (J2000)  
 16h42m58.809967s  
 +39°48'36.993984"

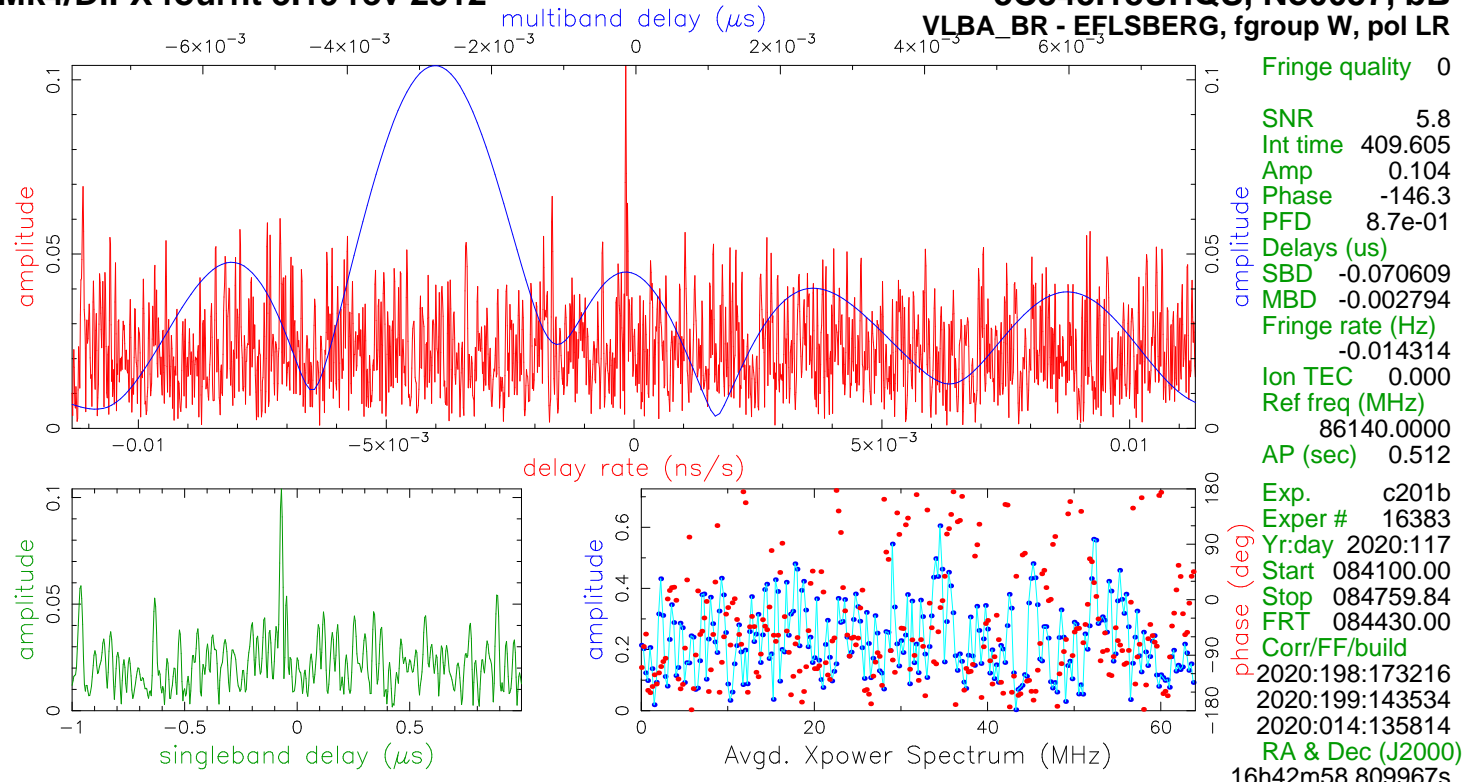
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



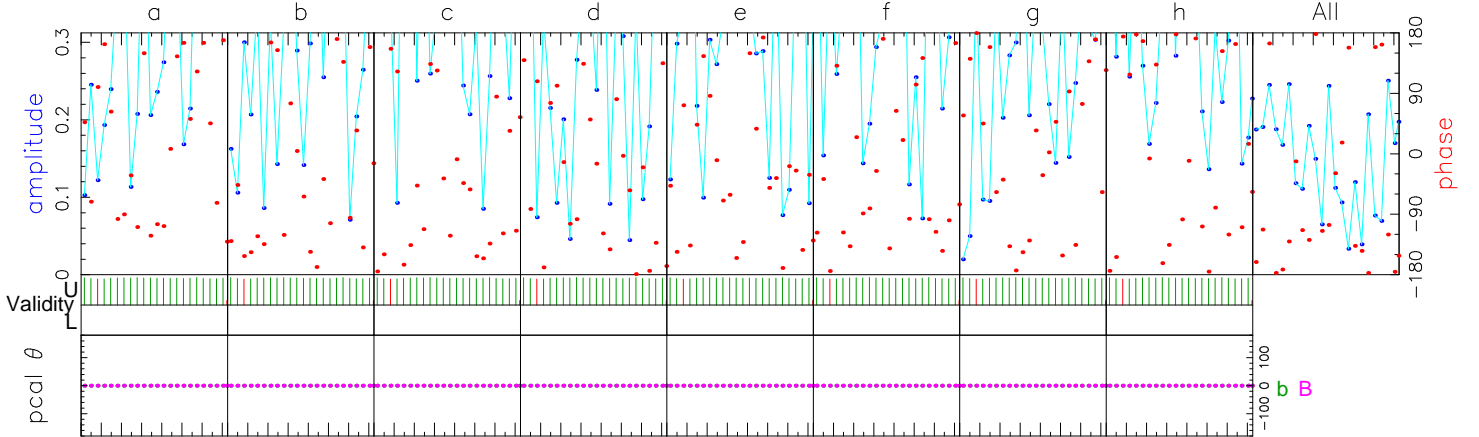
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.17000451469E+04				1.17000532226E+04			7.54932E-03	+/- 5.3E-05
Sband delay (usec)		1.17000523168E+04				-1.4457963E+01			-9.05750E-04	+/- 4.2E-04
Phase delay (usec)		1.17000532247E+04				1.5800000E-07			2.09133E-06	+/- 1.8E-07
Delay rate (us/s)		1.07610728704E+00				1.07610727803E+00			9.1073E-09	+/- 7.4E-10
Total phase (deg)			278.4						64.9	+/- 5.6
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)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
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) 66.7 13.4 Search (2048X32) 0.358 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 105.6 23.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 43.4 7.9 Inc. seg. avg. 0.582 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 26.8 13.7 Inc. frq. avg. 0.449 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 simultaneous interpolator

b: az 104.8 el 69.8 pa -57.1 B: az 304.4 el 23.7 pa 42.9 u,v (fr/asec) -8155.205 -4265.896 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/bB..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bB.W.3.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

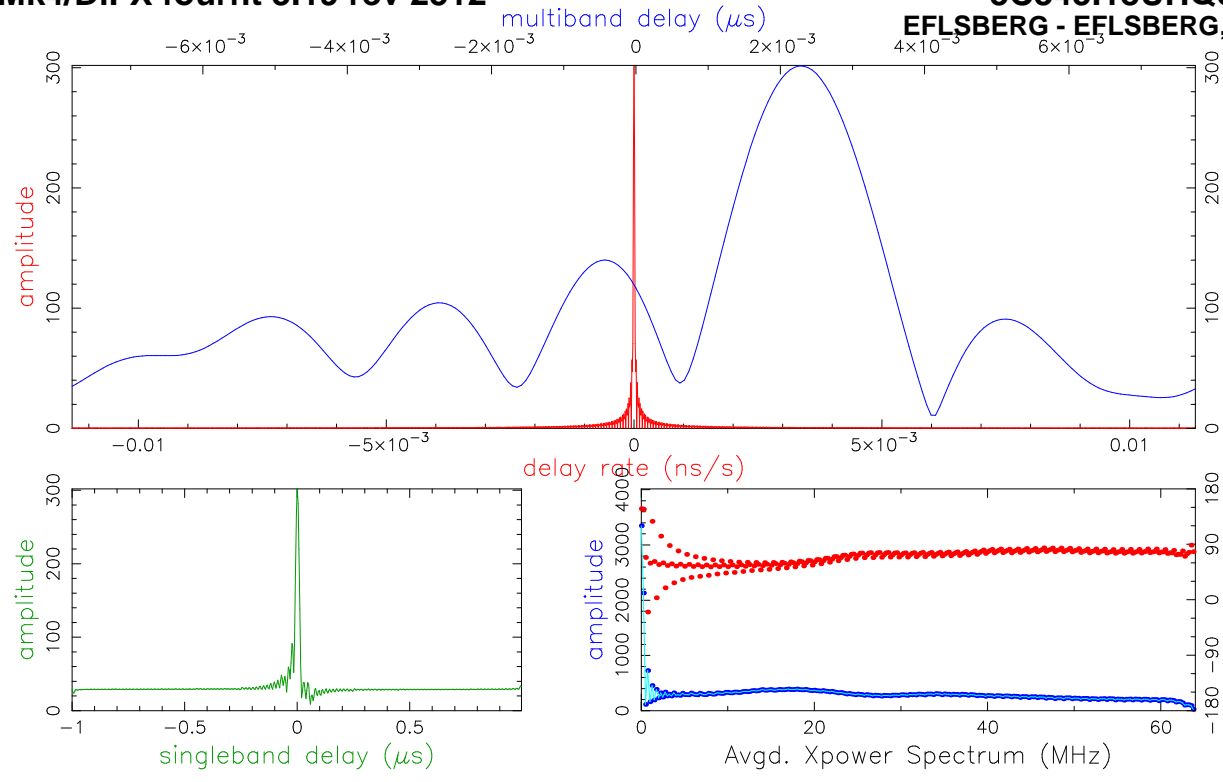


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-163.2	-161.0	-133.5	-170.3	-104.6	-121.1	-155.8	-160.6	Phase	-146.3
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	361.3	392.8	238.8	175.1	184.3	286.2	301.5	239.5	Sbd box	238.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.16999879284E+04		Apriori delay (usec)		1.17000532226E+04		Resid mbdelay (usec)		-2.79414E-03	+/- 1.9E-04
Sband delay (usec)	1.16999826136E+04		Apriori clock (usec)		-1.4457963E+01		Resid sbdelay (usec)		-7.06090E-02	+/- 1.5E-03
Phase delay (usec)	1.17000532179E+04		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-4.71659E-06	+/- 6.4E-07
Delay rate (us/s)	1.07610711185E+00		Apriori rate (us/s)		1.07610727803E+00		Resid rate (us/s)		-1.66175E-07	+/- 2.6E-09
Total phase (deg)	67.2		Apriori accel (us/s/s)		-6.42614375700E-05		Resid phase (deg)		-146.3	+/- 19.9

	RMS	Theor.	Amplitude	0.104 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.4	47.7	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	77.8	83.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.5	28.1	Inc. seg. avg.	0.111	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	48.5	49.1	Inc. frq. avg.	0.099	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 104.8 el 69.8 pa -57.1    B: az 304.4 el 23.7 pa 42.9    u,v (fr/asec) -8155.205 -4265.896    simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/c201b/v1/1234/No0057/bB..18UHQ5    Output file: /Exps/c201b/v1/1234/No0057/bB.W.40.18UHQ5

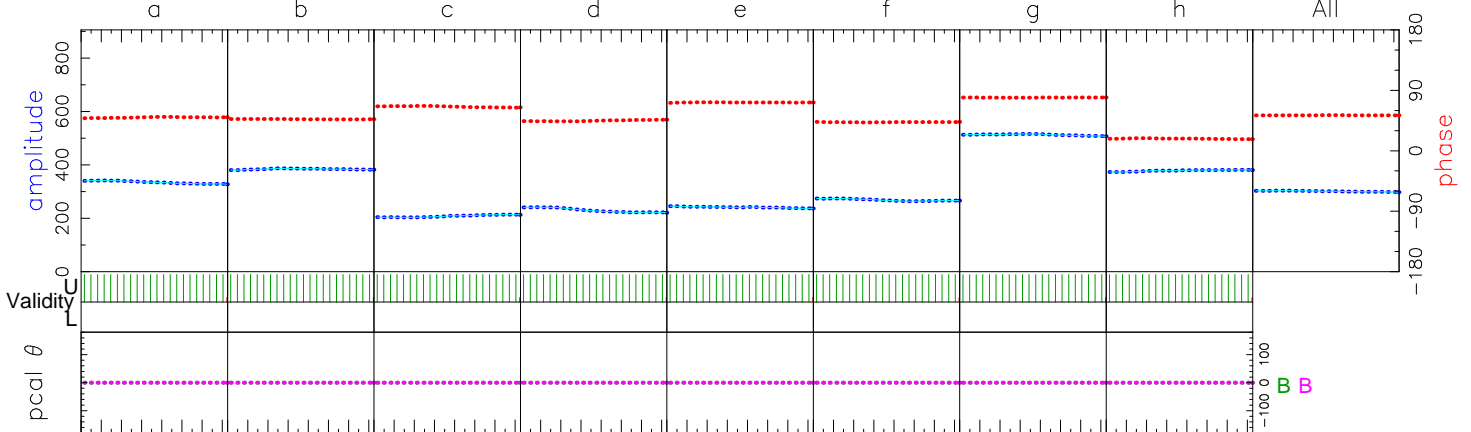


Fringe quality 7

SNR 16918.9  
Int time 419.814  
Amp 301.958  
Phase 52.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.000522  
MBD 0.002306  
Fringe rate (Hz)  
-0.000007  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143535  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

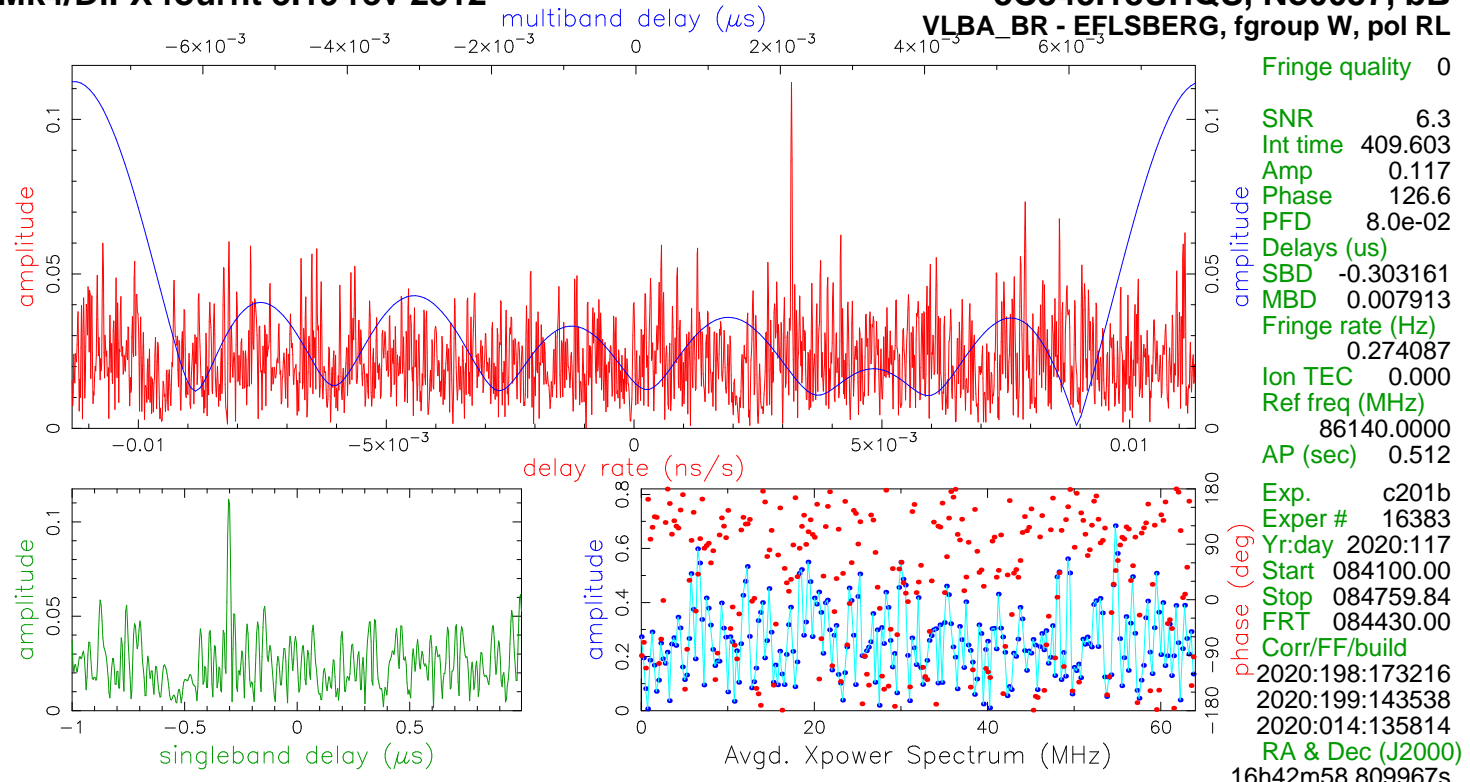


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.30584375000E-03								2.30584E-03	+/- 6.4E-08
Sband delay (usec)	5.21750000000E-04								5.21750E-04	+/- 5.1E-07
Phase delay (usec)	1.70205585556E-06								1.70206E-06	+/- 2.2E-10
Delay rate (us/s)	-8.21926838718E-11								-8.21927E-11	+/- 9.0E-13
Total phase (deg)			52.8						52.8	+/- 0.0
ph/seg (deg)	0.1	0.0								
amp/seg (%)	0.6	0.0								
ph/frq (deg)	21.0	0.0								
amp/frq (%)	32.4	0.0								
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										

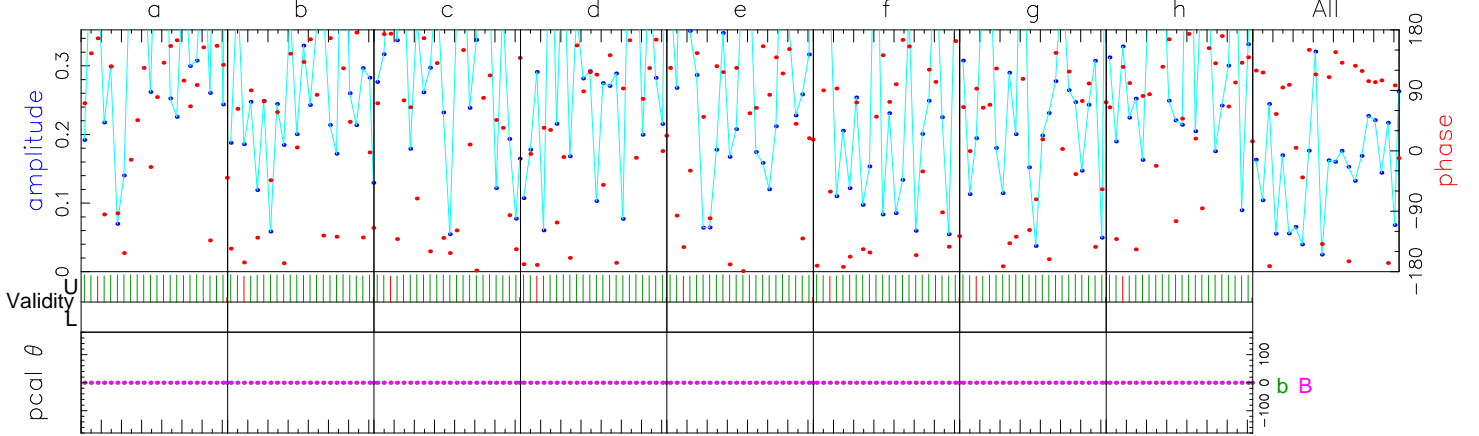
B: az 304.4 el 23.7 pa 42.9      B: az 304.4 el 23.7 pa 42.9      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c201b/v1/1234/No0057/BB..18UHQ5      Output file: /Exps/c201b/v1/1234/No0057/BB.W.43.18UHQ5





Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

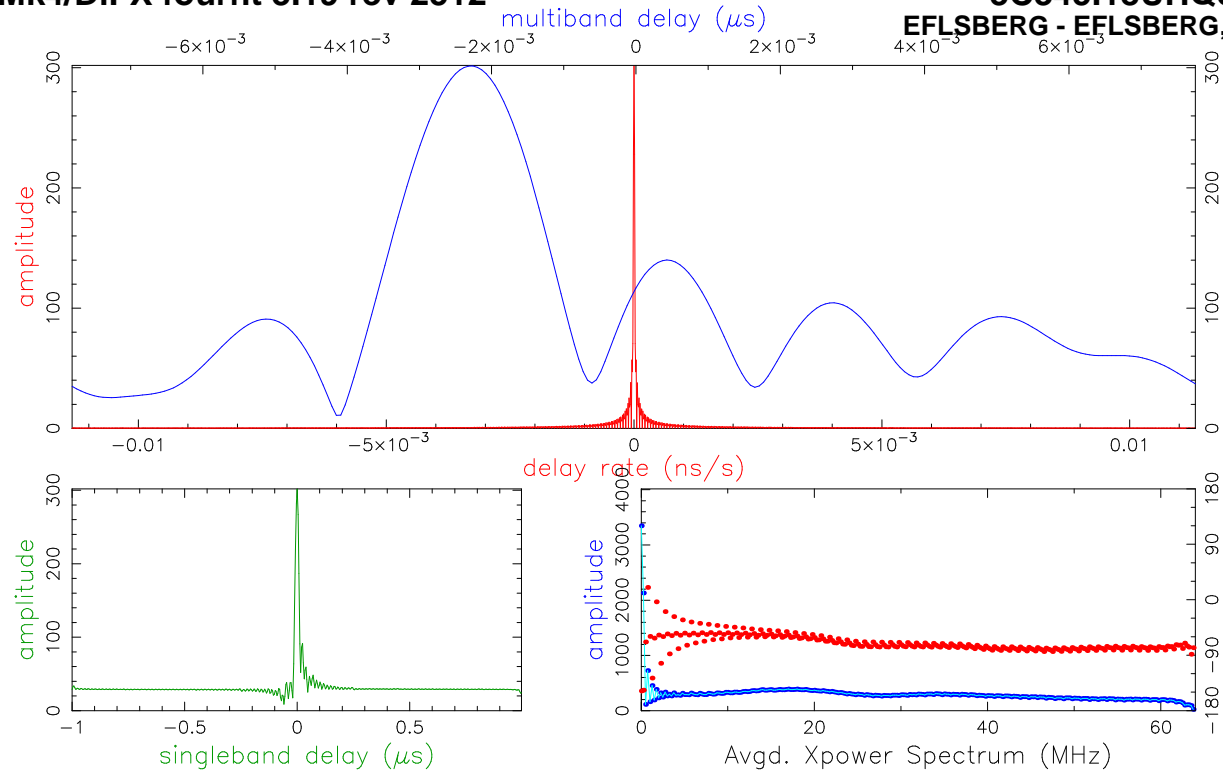


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
125.2	131.3	147.5	105.6	134.2	138.7	93.6	123.9	123.9	Phase	126.6
0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
179.4	223.5	191.4	506.0	105.6	106.5	207.6	176.9	176.9	Sbd box	179.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.16997486355E+04		Apriori delay (usec)	1.17000532226E+04	Resid mbdelay (usec)	7.91288E-03	+/-	1.7E-04		
Sband delay (usec)	1.16997500618E+04		Apriori clock (usec)	-1.4457963E+01	Resid sbdelay (usec)	-3.03161E-01	+/-	1.4E-03		
Phase delay (usec)	1.17000532267E+04		Apriori clockrate (us/s)	1.5800000E-07	Resid phdelay (usec)	4.08104E-06	+/-	5.9E-07		
Delay rate (us/s)	1.07611045991E+00		Apriori rate (us/s)	1.07610727803E+00	Resid rate (us/s)	3.18188E-06	+/-	2.4E-09		
Total phase (deg)		340.1	Apriori accel (us/s/s)	-6.42614375700E-05	Resid phase (deg)	126.6	+/-	18.2		

	RMS	Theor.	Amplitude	0.117 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	59.8	43.7	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	71.6	76.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	19.2	25.7	Inc. seg. avg.	0.119	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.4	44.9	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 104.8 el 69.8 pa -57.1      B: az 304.4 el 23.7 pa 42.9      u,v (fr/asec) -8155.205 -4265.896      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c201b/v1/1234/No0057/bB..18UHQ5      Output file: /Exps/c201b/v1/1234/No0057/bB.W.60.18UHQ5

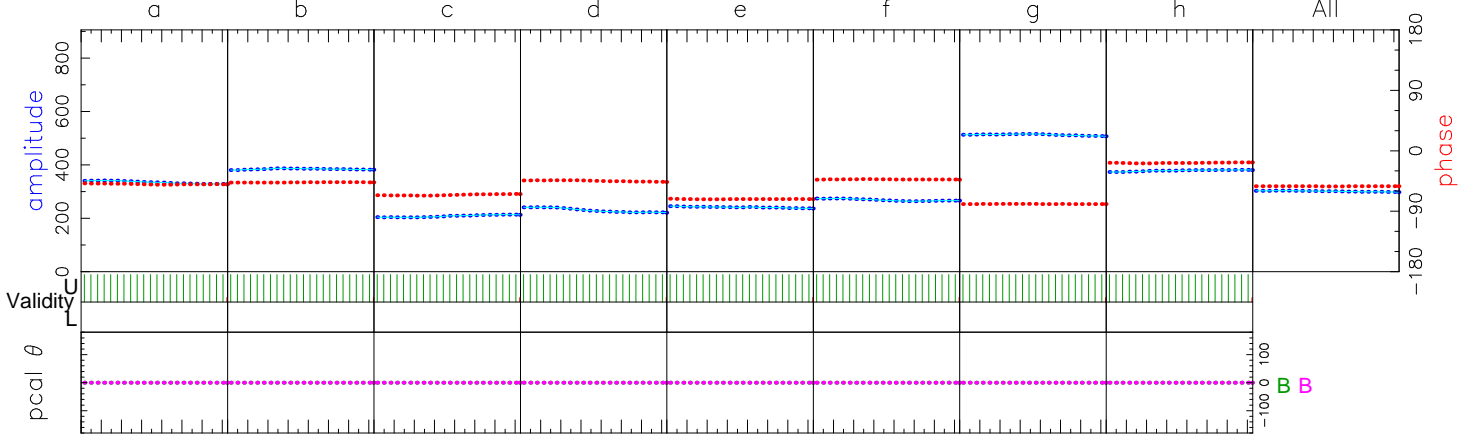


Fringe quality 7

SNR 16918.9  
Int time 419.814  
Amp 301.958  
Phase -52.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.000522  
MBD -0.002306  
Fringe rate (Hz) 0.000007  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143539  
2020:014:135814  
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

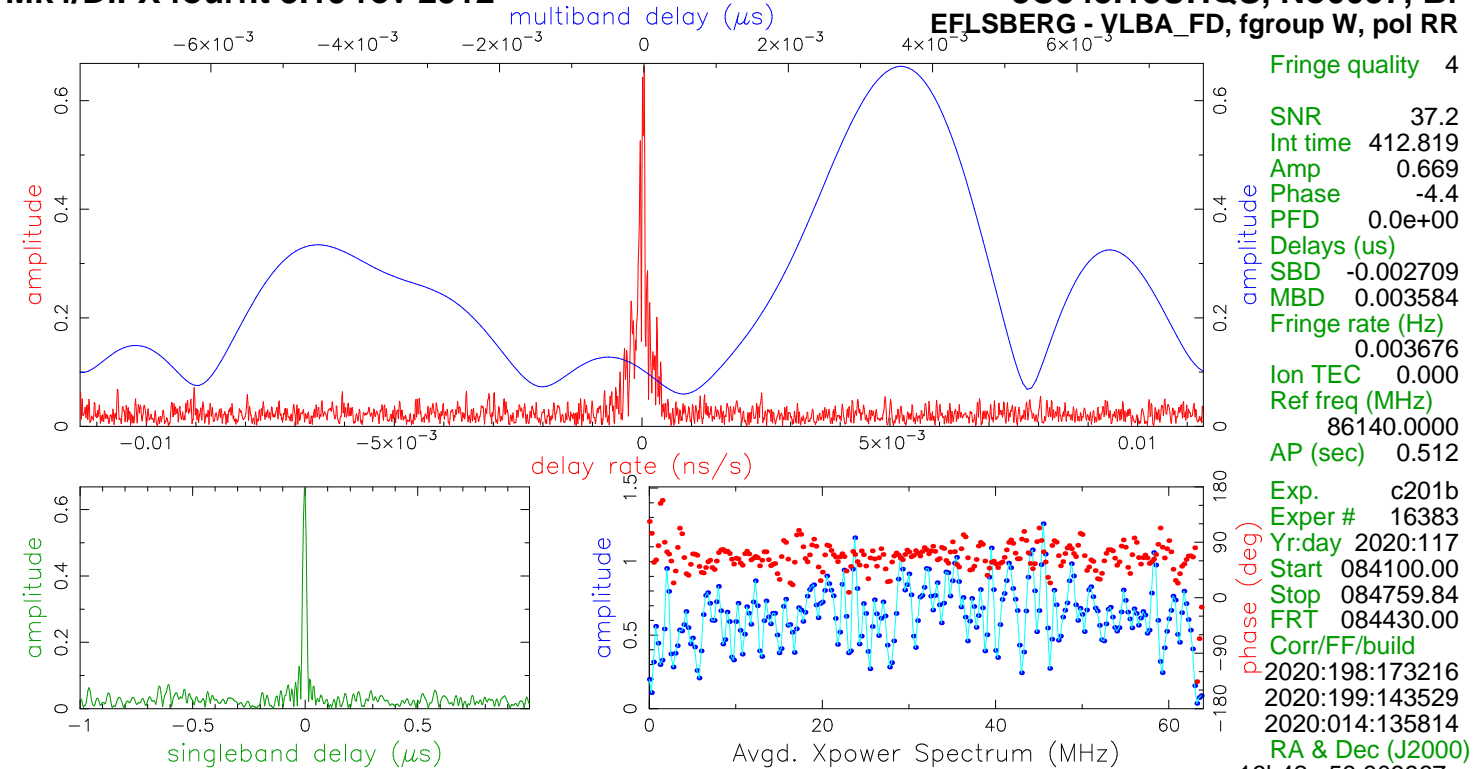


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.6	-47.0	-65.6	-44.8	-71.9	-42.6	-79.2	-18.0	Phase	-52.8
	335.2	384.2	208.3	230.8	241.5	268.9	512.8	378.5	Ampl.	320.0
	256.3	256.7	256.6	256.0	256.9	256.7	257.7	257.5	Sbd box	256.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.30584375000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.30584E-03	+/- 6.4E-08
Sband delay (usec)	-5.21750000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-5.21750E-04	+/- 5.1E-07
Phase delay (usec)	-1.70205585565E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.70206E-06	+/- 2.2E-10
Delay rate (us/s)	8.21926838718E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		8.21927E-11	+/- 9.0E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-52.8	+/- 0.0

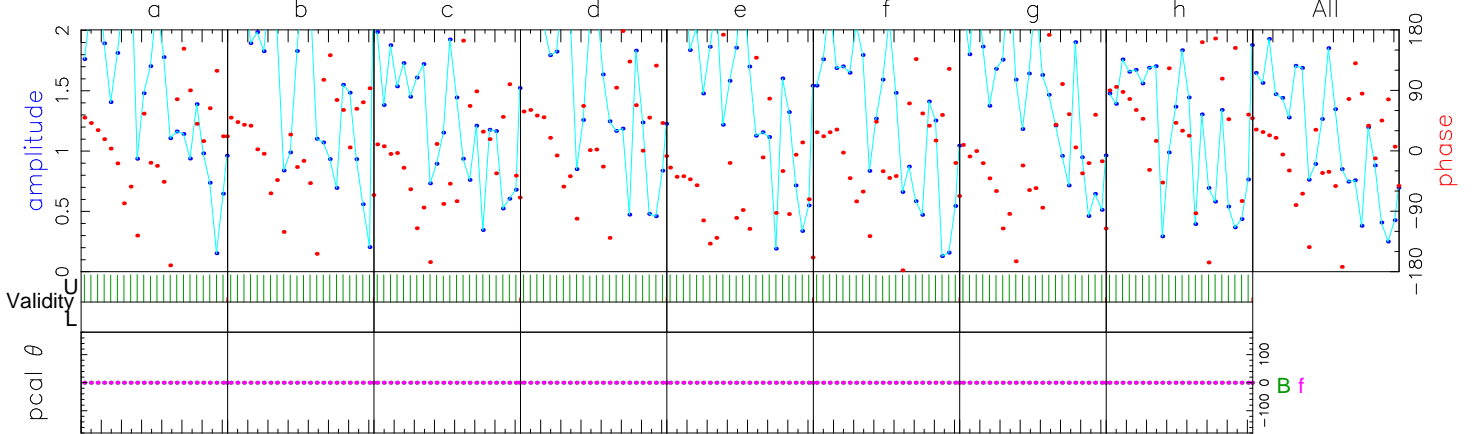
RMS Theor. Amplitude 301.958 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.1 0.0 Search (2048X32) 298.085 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 21.0 0.0 Inc. seg. avg. 301.465 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 32.4 0.0 Inc. frq. avg. 320.032 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 304.4 el 23.7 pa 42.9 B: az 304.4 el 23.7 pa 42.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator



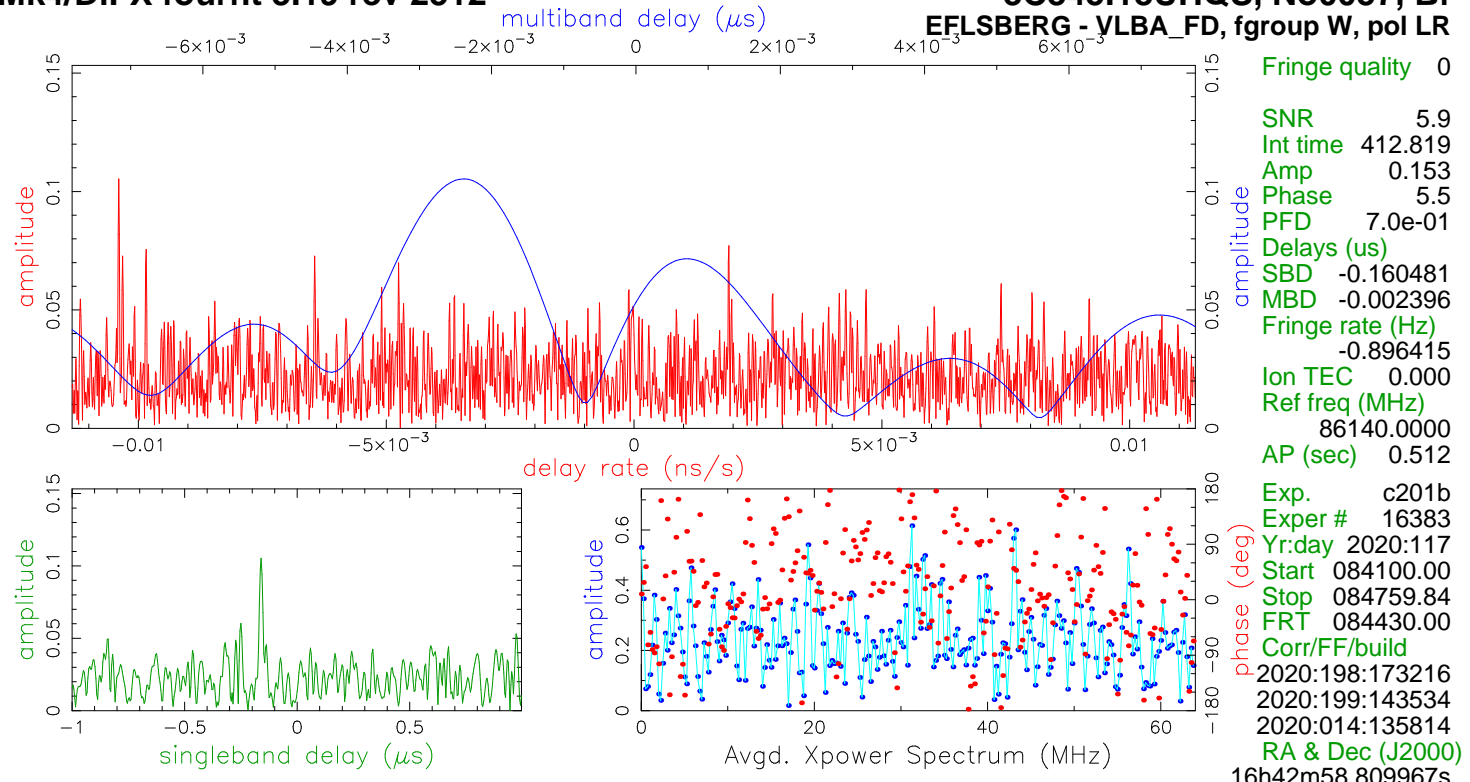


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

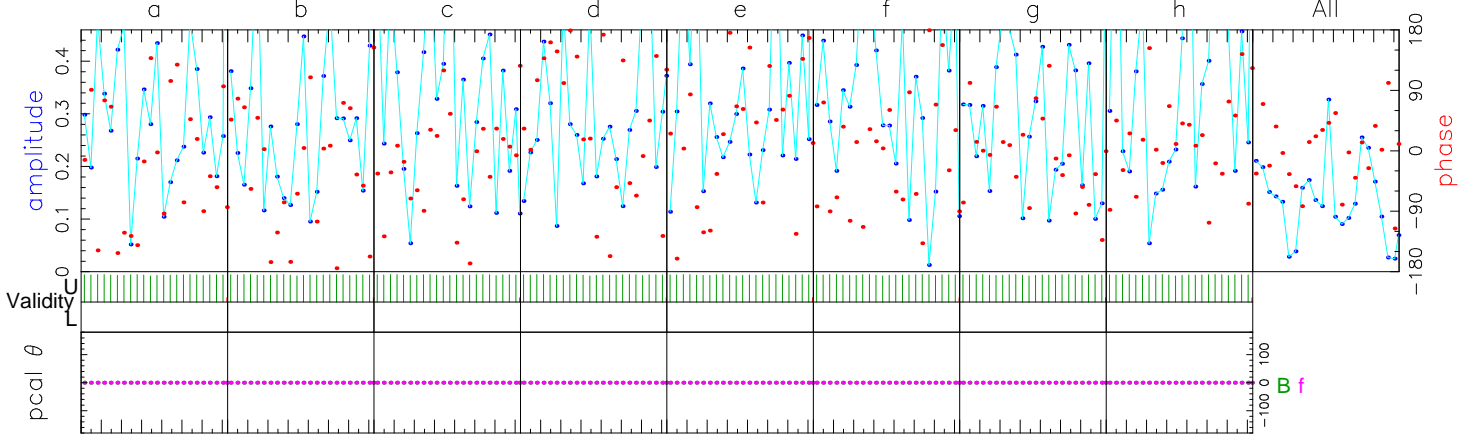


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
7.0	7.0	10.1	-25.6	23.8	-68.3	-4.9	-35.4	63.7	Phase	-4.4
0.8	0.8	0.9	0.7	0.9	0.9	0.8	0.8	0.7	Ampl.	0.8
256.1	256.3	256.8	256.6	256.9	256.7	256.7	257.0	256.9	Sbd box	256.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		-1.24938214017E+04		Apriori delay (usec)		-1.24938249857E+04		Resid mbdelay (usec)		3.58398E-03 +/- 2.9E-05
Sband delay (usec)		-1.24938276947E+04		Apriori clock (usec)		9.1499033E+00		Resid sbdelay (usec)		-2.70900E-03 +/- 2.3E-04
Phase delay (usec)		-1.24938249858E+04		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-1.43337E-07 +/- 9.9E-08
Delay rate (us/s)		-9.02746957213E-01		Apriori rate (us/s)		-9.02746999891E-01		Resid rate (us/s)		4.26786E-08 +/- 4.1E-10
Total phase (deg)		-100.1		Apriori accel (us/s/s)		8.54157438837E-05		Resid phase (deg)		-4.4 +/- 3.1

	RMS	Theor.	Amplitude	0.669 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	70.6	7.4	Search (2048X32)	0.655	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	101.2	12.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	43.3	4.4	Inc. seg. avg.	1.112	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	26.4	7.6	Inc. frq. avg.	0.817	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

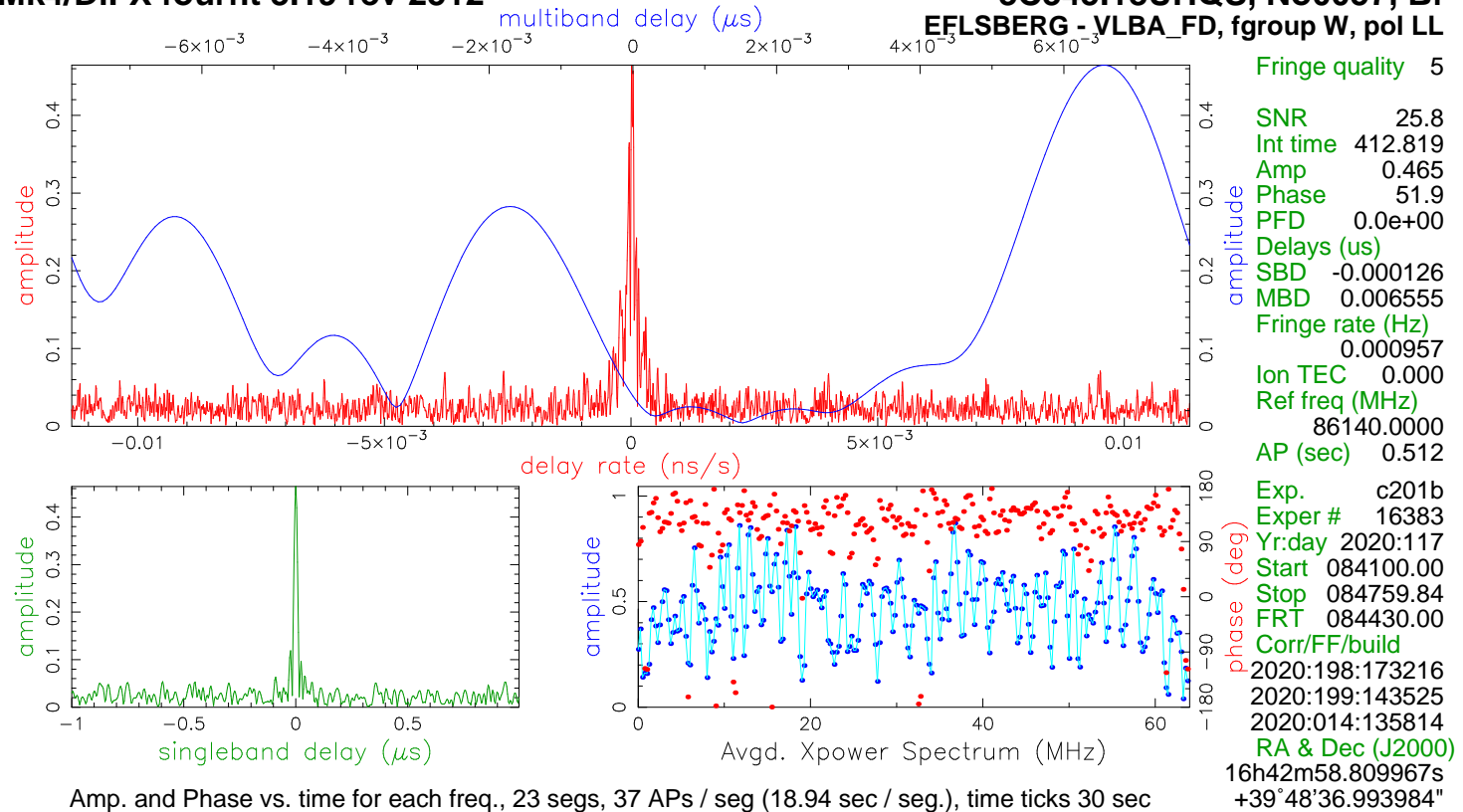


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

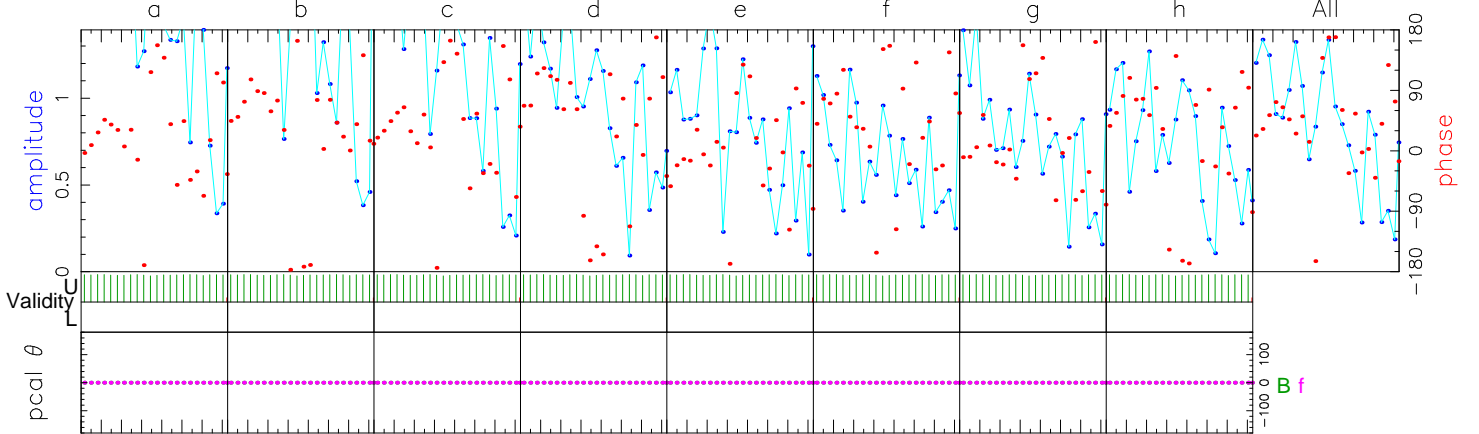


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.5	11.4	-5.8	90.9	60.6	-20.7	-7.5	11.2	Phase	5.5
	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.3	Ampl.	0.2
	475.7	45.3	216.6	456.2	421.7	342.6	216.1	215.8	Sbd box	215.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.24939836313E+04			Apriori delay (usec)	-1.24938249857E+04			Resid mbdelay (usec)	-2.39561E-03	+/- 1.9E-04
Sband delay (usec)	-1.24939854669E+04			Apriori clock (usec)	9.1499033E+00			Resid sbdelay (usec)	-1.60481E-01	+/- 1.5E-03
Phase delay (usec)	-1.24938249855E+04			Apriori clockrate (us/s)	-3.0900000E-07			Resid phdelay (usec)	1.75773E-07	+/- 6.3E-07
Delay rate (us/s)	-9.02757406375E-01			Apriori rate (us/s)	-9.02746999891E-01			Resid rate (us/s)	-1.04065E-05	+/- 2.6E-09
Total phase (deg)		-90.2		Apriori accel (us/s/s)	8.54157438837E-05			Resid phase (deg)	5.5	+/- 19.6

	RMS	Theor.	Amplitude	0.153 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.2	46.9	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	78.0	81.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	45.3	27.7	Inc. seg. avg.	0.152	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	63.0	48.3	Inc. frq. avg.	0.155	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

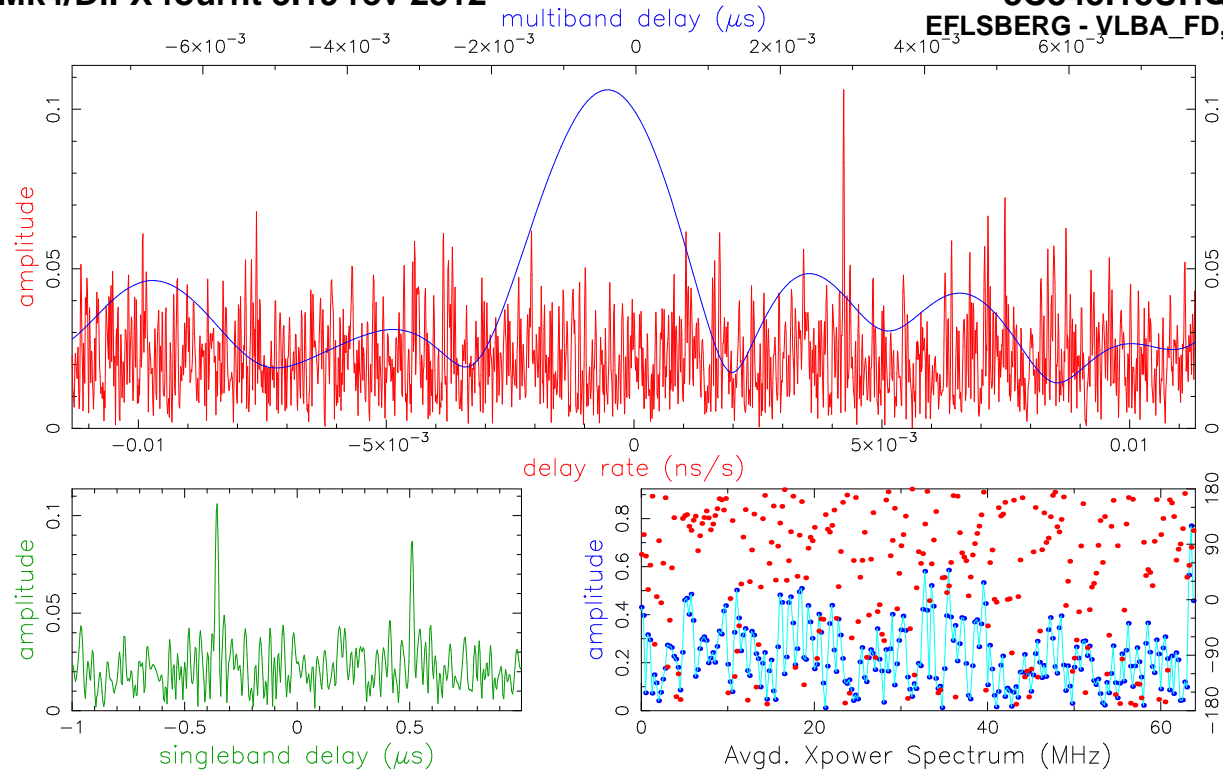


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



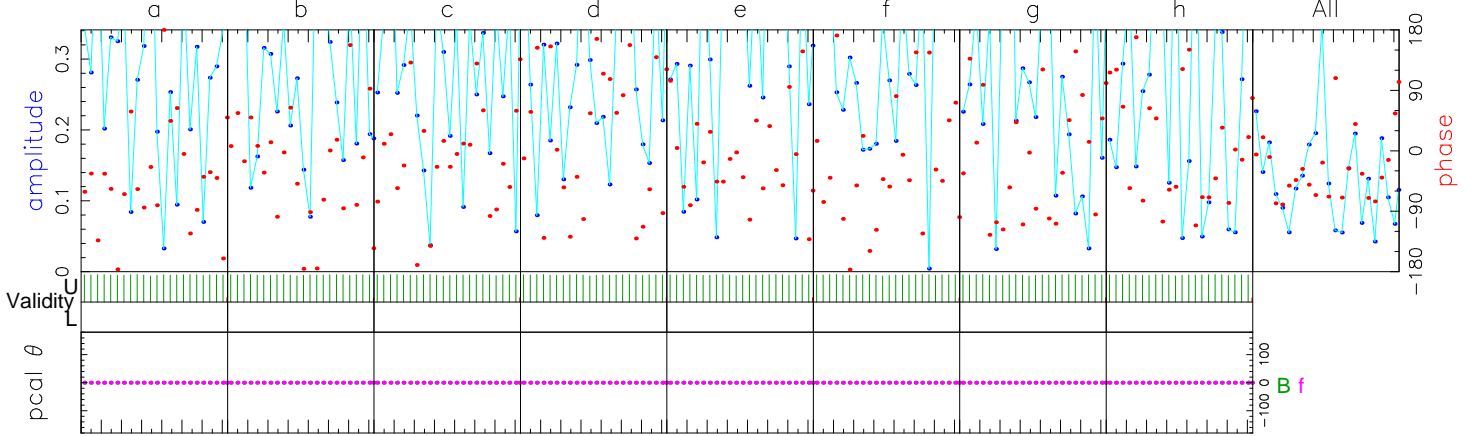
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
25.5	77.7	46.2	97.4	1.3	68.5	1.6	75.8	75.8	Phase	51.9
0.8	0.9	0.7	0.5	0.4	0.4	0.4	0.4	0.4	Ampl.	0.5
257.4	257.4	257.4	257.2	257.6	256.5	258.2	257.9	257.9	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.24938184309E+04		Apriori delay (usec)	-1.24938249857E+04		Resid mbdelay (usec)	6.55473E-03	+/-	4.2E-05	
Sband delay (usec)	-1.24938251119E+04		Apriori clock (usec)	9.1499033E+00		Resid sbdelay (usec)	-1.26250E-04	+/-	3.3E-04	
Phase delay (usec)	-1.24938249840E+04		Apriori clockrate (us/s)	-3.0900000E-07		Resid phdelay (usec)	1.67299E-06	+/-	1.4E-07	
Delay rate (us/s)	-9.02746988777E-01		Apriori rate (us/s)	-9.02746999891E-01		Resid rate (us/s)	1.11144E-08	+/-	5.9E-10	
Total phase (deg)		-43.8	Apriori accel (us/s/s)	8.54157438837E-05		Resid phase (deg)	51.9	+/-	4.4	

	RMS	Theor.	Amplitude	0.465 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	62.7	10.6	Search (2048X32)	0.456	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	112.7	18.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	39.6	6.3	Inc. seg. avg.	0.843	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	44.0	11.0	Inc. frq. avg.	0.544	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00



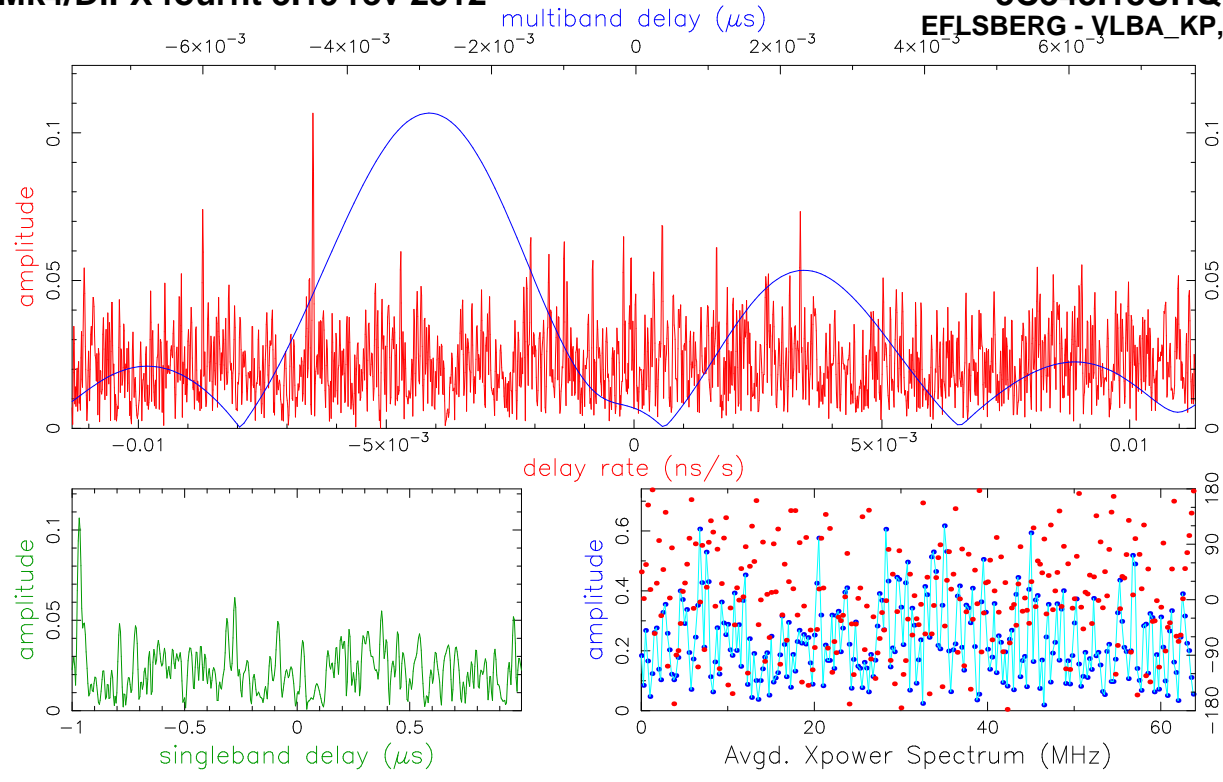
Fringe quality 0  
SNR 6.0  
Int time 412.819  
Amp 0.114  
Phase -28.8  
PFD 4.7e-01  
Delays (us)  
SBD -0.356763  
MBD -0.000423  
Fringe rate (Hz)  
0.364994  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143538  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



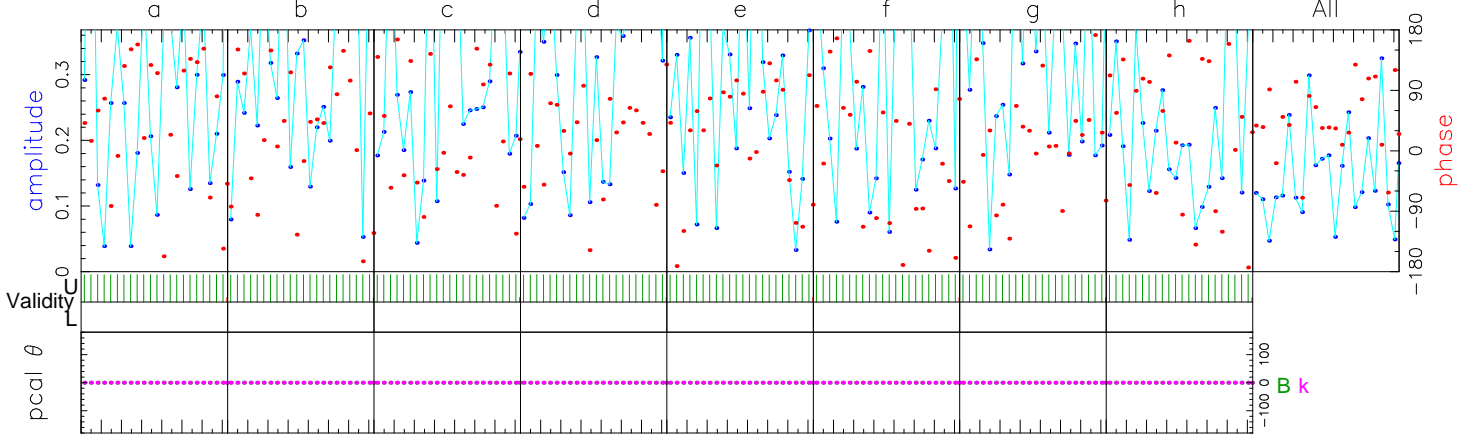
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-60.9	-11.4	-7.7	133.8	-12.5	-38.8	-64.8	-19.9	Phase	-28.8
	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.1	Ampl.	0.1
	190.5	7.9	246.7	139.2	167.0	409.0	67.4	88.9	Sbd box	165.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.24941847832E+04		Apriori delay (usec)		-1.24938249857E+04		Resid mbdelay (usec)		-4.22565E-04	+/- 1.8E-04
Sband delay (usec)	-1.24941817484E+04		Apriori clock (usec)		9.1499033E+00		Resid sbdelay (usec)		-3.56763E-01	+/- 1.4E-03
Phase delay (usec)	-1.24938249866E+04		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-9.27834E-07	+/- 6.2E-07
Delay rate (us/s)	-9.02742762678E-01		Apriori rate (us/s)		-9.02746999891E-01		Resid rate (us/s)		4.23721E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		8.54157438837E-05		Resid phase (deg)		-28.8	+/- 19.2

ph/seg (deg) 48.4 46.1 Amplitude 0.114 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 69.5 80.4 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 70.7 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 47.2 47.4 Inc. seg. avg. 0.108 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 0.113 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 0  
SNR 6.0  
Int time 417.307  
Amp 0.123  
Phase 47.1  
PFD 4.5e-01  
Delays (us)  
SBD -0.968062  
MBD -0.002840  
Fringe rate (Hz)  
-0.558567  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143532  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

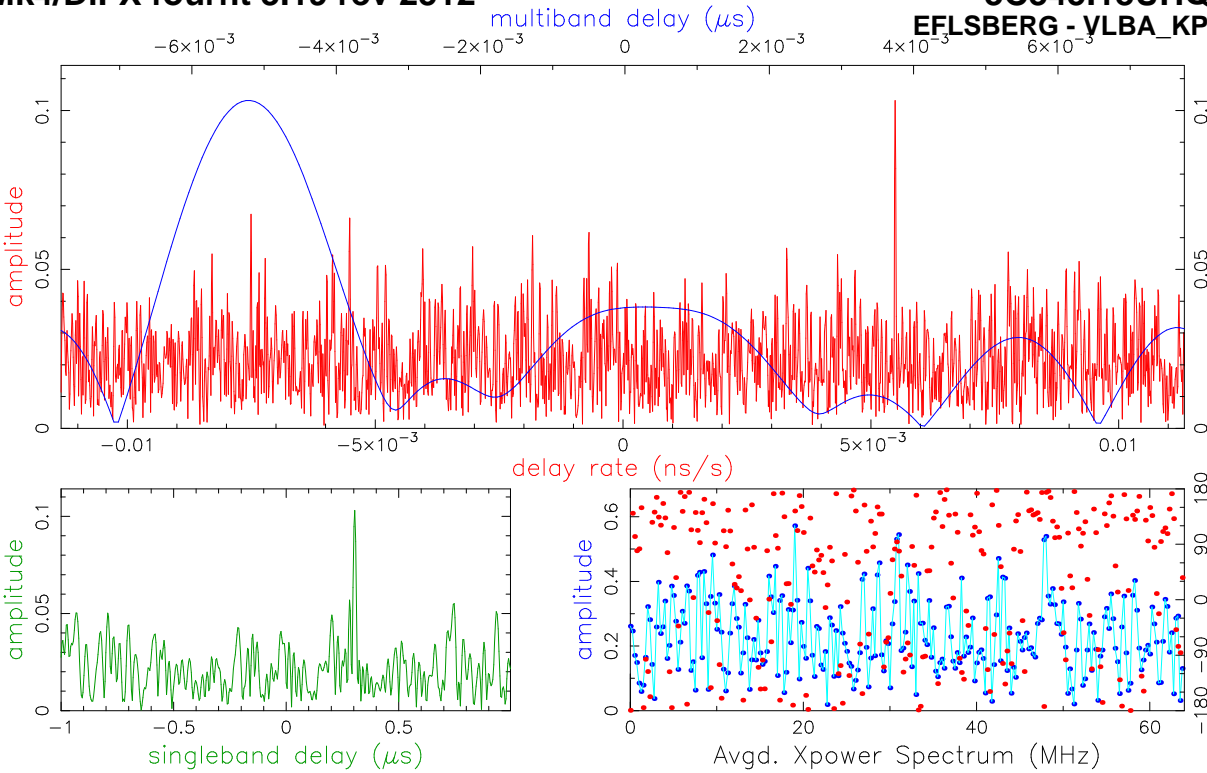
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	64.6	59.3	11.3	36.7	62.6	34.9	19.4	107.9	Phase	47.1
	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	Ampl.	0.1
	353.5	413.3	341.8	9.7	8.8	109.8	422.0	305.4	Sbd box	9.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.21555451997E+04		Apriori delay (usec)		-1.21545736093E+04		Resid mbdelay (usec)		-2.84039E-03	+/- 1.8E-04
Sband delay (usec)	-1.21555416716E+04		Apriori clock (usec)		1.3394353E+01		Resid sbdelay (usec)		-9.68062E-01	+/- 1.4E-03
Phase delay (usec)	-1.21545736078E+04		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		1.52027E-06	+/- 6.2E-07
Delay rate (us/s)	-1.03266511138E+00		Apriori rate (us/s)		-1.03265862697E+00		Resid rate (us/s)		-6.48441E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		8.22118881580E-05		Resid phase (deg)		47.1	+/- 19.2

ph/seg (deg) 52.6 46.0 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 78.5 80.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 33.4 27.1 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 46.0 47.4 Inc. frq. avg. 0.120 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 304.4 el 23.7 pa 42.9 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) 7873.652 6910.014 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/Bk..18UHQS Output file: /Exps/c201b/v1/1234/No0057/Bk.W.31.18UHQS



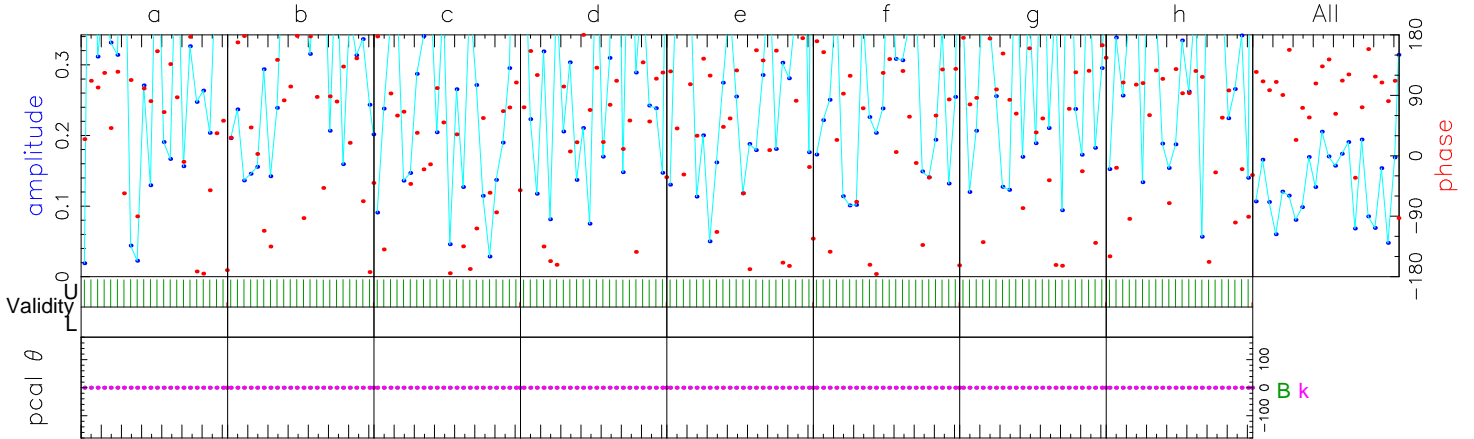


Fringe quality 0

SNR 5.8  
Int time 417.307  
Amp 0.114  
Phase 104.5  
PFD 8.5e-01  
Delays (us)  
SBD 0.304033  
MBD -0.005259  
Fringe rate (Hz) 0.473786  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

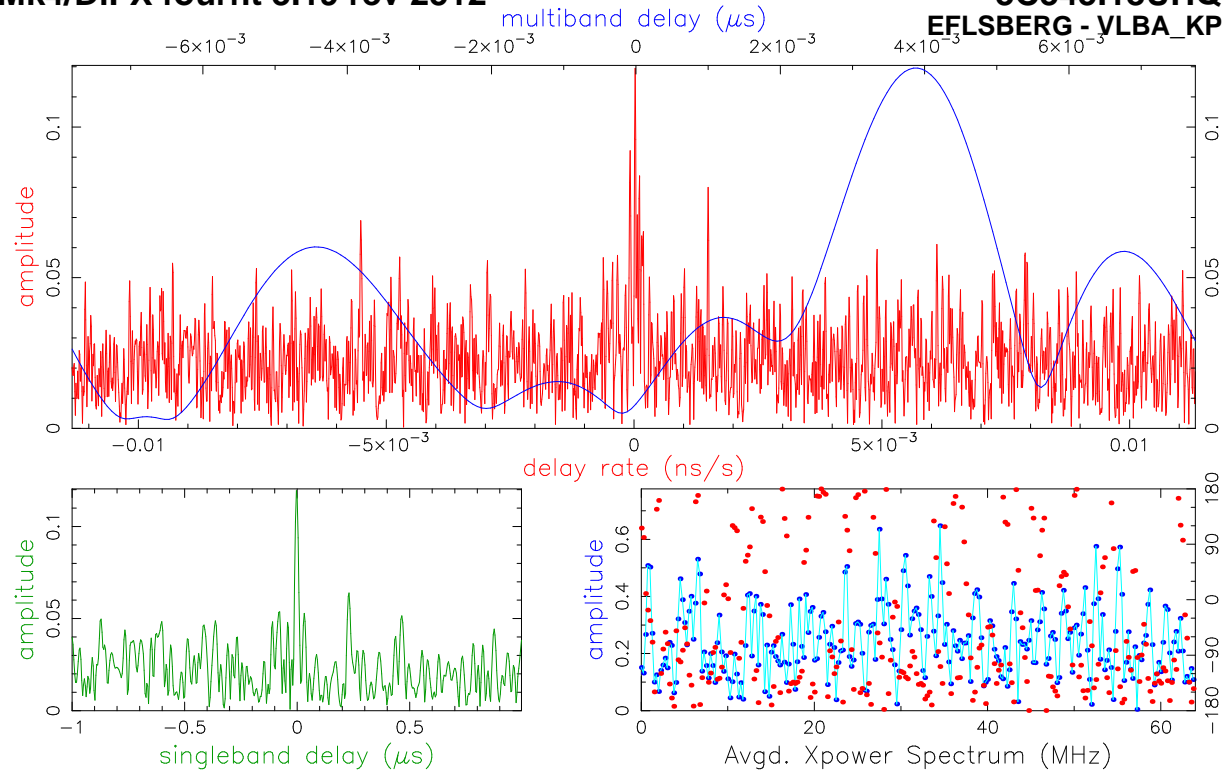
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143536  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



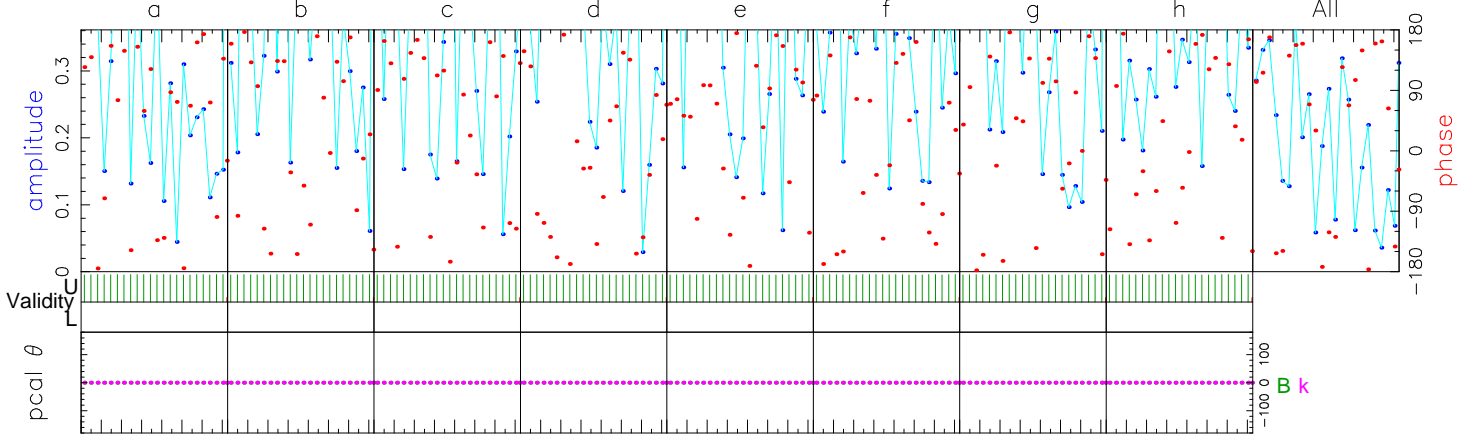
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	86140.00	104.5
B	1000	1000	1000	1000	1000	1000	1000	1000	104.5	0.1
k	1000	1000	1000	1000	1000	1000	1000	1000	104.5	334.8
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	104.5	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	104.5	
B	1000	1000	1000	1000	1000	1000	1000	1000	104.5	
k	1000	1000	1000	1000	1000	1000	1000	1000	104.5	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
Group delay (usec)(sbd)	-1.21542663682E+04									-5.25884E-03 +/- 1.9E-04
Sband delay (usec)	-1.21542695761E+04									3.04033E-01 +/- 1.5E-03
Phase delay (usec)	-1.21545736060E+04									3.36922E-06 +/- 6.4E-07
Delay rate (us/s)	-1.03265312678E+00									5.50019E-06 +/- 2.6E-09
Total phase (deg)			-150.4							104.5 +/- 19.8
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)										
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)										-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) 45.4 47.6 Search (2048X32) 0.102 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 54.4 83.0 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 23.0 28.0 Inc. seg. avg. 0.107 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 30.5 48.9 Inc. frq. avg. 0.107 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 304.4 el 23.7 pa 42.9 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) 7873.652 6910.014 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/Bk..18UHQS Output file: /Exps/c201b/v1/1234/No0057/Bk.W.51.18UHQS



Fringe quality 0  
SNR 6.7  
Int time 417.307  
Amp 0.120  
Phase 147.6  
PFD 4.9e-03  
Delays (us)  
SBD -0.002747  
MBD 0.003927  
Fringe rate (Hz) 0.001533  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143526  
2020:014:135814  
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



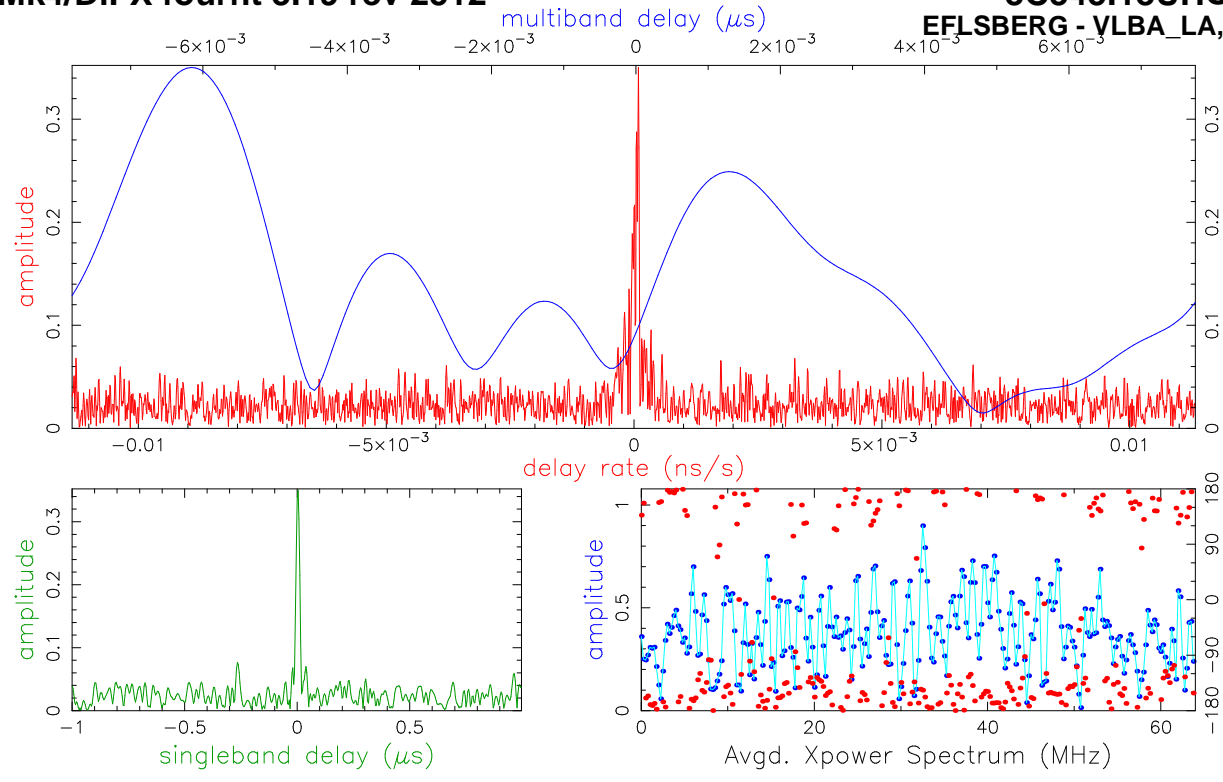
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.21545696825E+04	Apriori delay (usec)	-1.21545736093E+04	Resid mbdelay (usec)	3.92680E-03	+/-	1.6E-04
Sband delay (usec)	-1.21545763558E+04	Apriori clock (usec)	1.3394353E+01	Resid sbdelay (usec)	-2.74650E-03	+/-	1.3E-03
Phase delay (usec)	-1.21545736046E+04	Apriori clockrate (us/s)	-2.0540000E-07	Resid phdelay (usec)	4.75879E-06	+/-	5.5E-07
Delay rate (us/s)	-1.03265860917E+00	Apriori rate (us/s)	-1.03265862697E+00	Resid rate (us/s)	1.77997E-08	+/-	2.3E-09
Total phase (deg)	-107.3	Apriori accel (us/s/s)	8.22118881580E-05	Resid phase (deg)	147.6	+/-	17.0

ph/seg (deg)	58.5	Theor.	40.8	Amplitude	0.120 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	105.0		71.3	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	33.4		24.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.2		42.0	Inc. seg. avg.	0.153	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.122	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

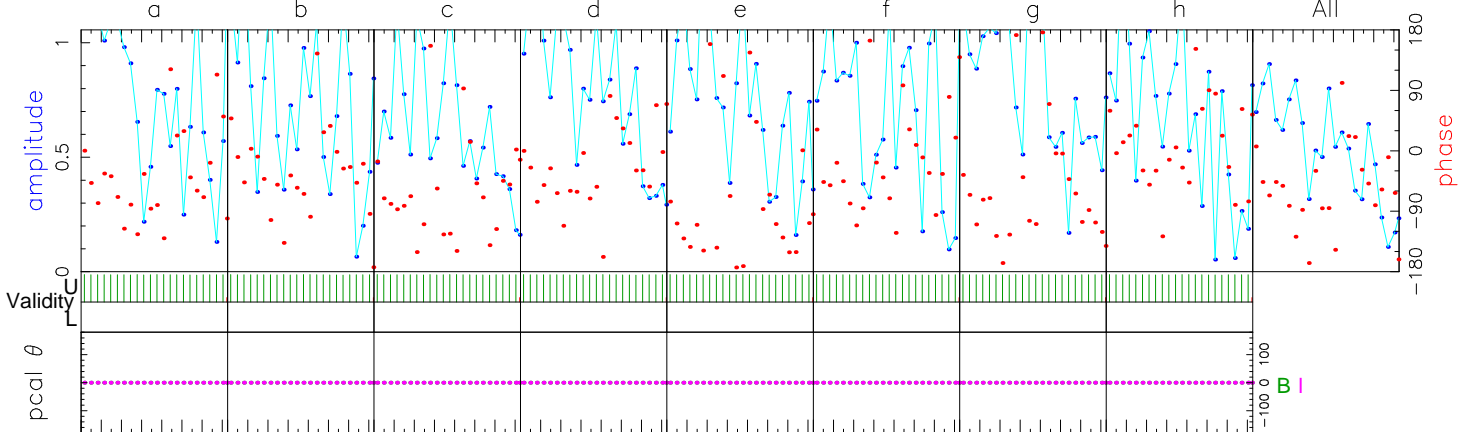
B: az 304.4 el 23.7 pa 42.9 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) 7873.652 6910.014 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/Bk..18UHQS Output file: /Exps/c201b/v1/1234/No0057/Bk.W.6.18UHQS





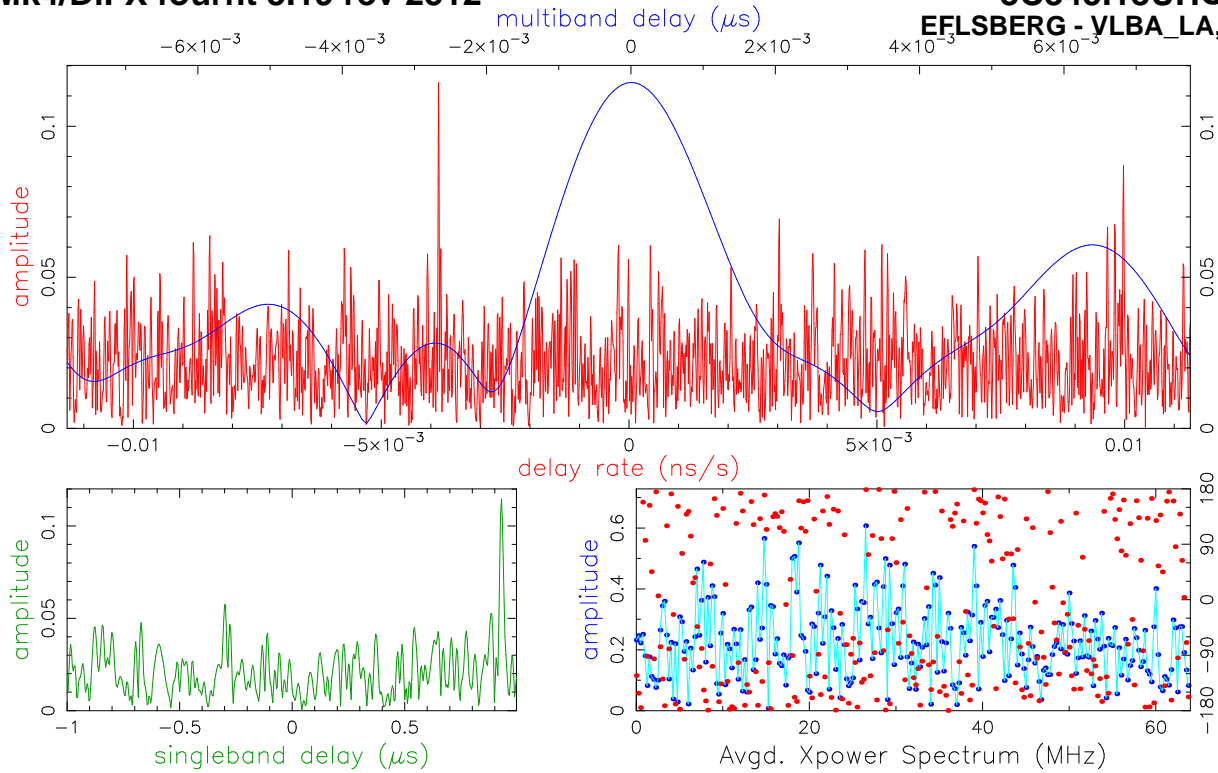
Fringe quality 8  
 SNR 19.6  
 Int time 415.990  
 Amp 0.352  
 Phase -62.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.002906  
 MBD -0.006180  
 Fringe rate (Hz) 0.007798  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c201b  
 Exper # 16383  
 Yr:day 2020:117  
 Start 084100.00  
 Stop 084759.84  
 FRT 084430.00  
 Corr/FF/build  
 2020:198:173216  
 2020:199:143530  
 2020:014:135814  
 RA & Dec (J2000)  
 16h42m58.809967s  
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	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: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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.26211096453E+04				-1.26211190907E+04				-6.17955E-03	+/- 5.5E-05
Sband delay (usec)	-1.26211161842E+04				1.6756166E+01				2.90650E-03	+/- 4.4E-04
Phase delay (usec)	-1.26211190927E+04				-4.8999999E-08				-2.00243E-06	+/- 1.9E-07
Delay rate (us/s)	-9.31998794546E-01				-9.31998885072E-01				9.05253E-08	+/- 7.8E-10
Total phase (deg)			-233.6		8.07188808616E-05				-62.1	+/- 5.8
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)										
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
SampCntNorm: enabled									-0.008	0.008
mb window (us)									-0.011	0.011
dr window (ns/s)									0.00	0.00
ion window (TEC)									0.00	0.00

ph/seg (deg) 59.2 14.0 Search (2048X32) 0.342 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 83.1 24.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 49.4 8.2 Inc. seg. avg. 0.531 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 34.2 14.4 Inc. frq. avg. 0.460 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 304.4 el 23.7 pa 42.9 I: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 7119.720 6446.985 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BI..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BI.W.24.18UHQS

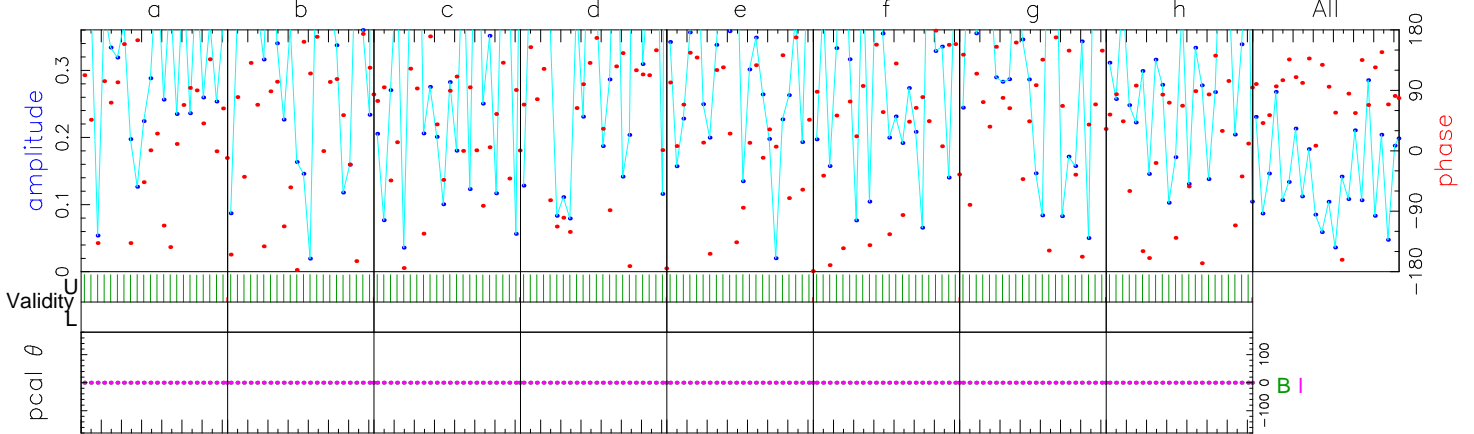


Fringe quality 0

SNR 6.4  
Int time 415.990  
Amp 0.120  
Phase 98.0  
PFD 4.5e-02  
Delays (us)  
SBD 0.929392  
MBD -0.000005  
Fringe rate (Hz)  
-0.331788  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143535  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	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: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		

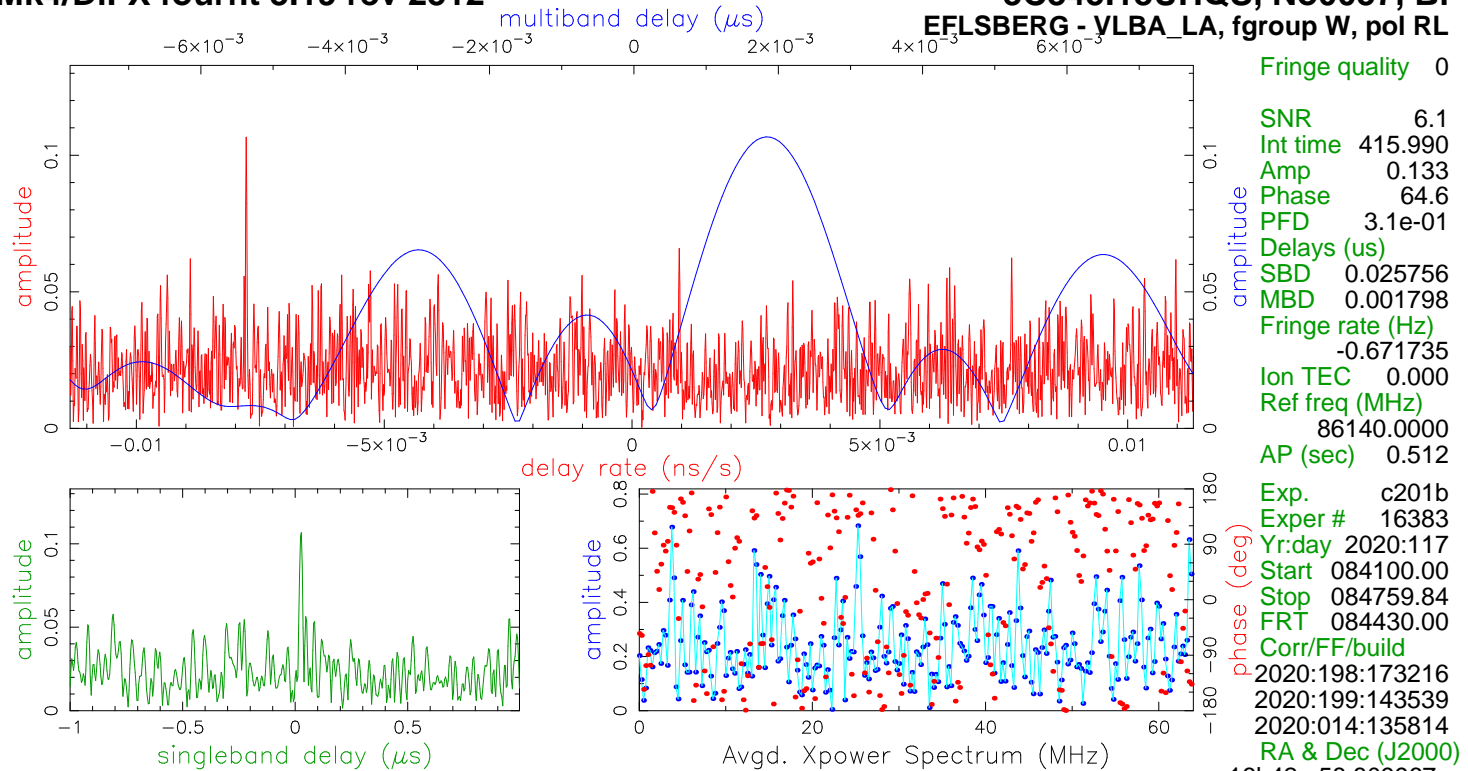
Group delay (usec)(sbd)	-1.26201972210E+04	Apriori delay (usec)	-1.26211190907E+04	Resid mbdelay (usec)	-5.25417E-06	+/-	1.7E-04
Sband delay (usec)	-1.26201896990E+04	Apriori clock (usec)	1.6756166E+01	Resid sbdelay (usec)	9.29392E-01	+/-	1.3E-03
Phase delay (usec)	-1.26211190876E+04	Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	3.15976E-06	+/-	5.8E-07
Delay rate (us/s)	-9.32002736804E-01	Apriori rate (us/s)	-9.31998885072E-01	Resid rate (us/s)	-3.85173E-06	+/-	2.4E-09
Total phase (deg)		Apriori accel (us/s/s)	8.07188808616E-05	Resid phase (deg)	98.0	+/-	17.9

ph/seg (deg)	41.2	Theor.	43.0	Amplitude	0.120 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	65.0	Search (2048X32)	0.112	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	32.5	Inc. seg. avg.	0.117	Inc. frq. avg.	0.124	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.0	Inc. frq. avg.	0.124			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

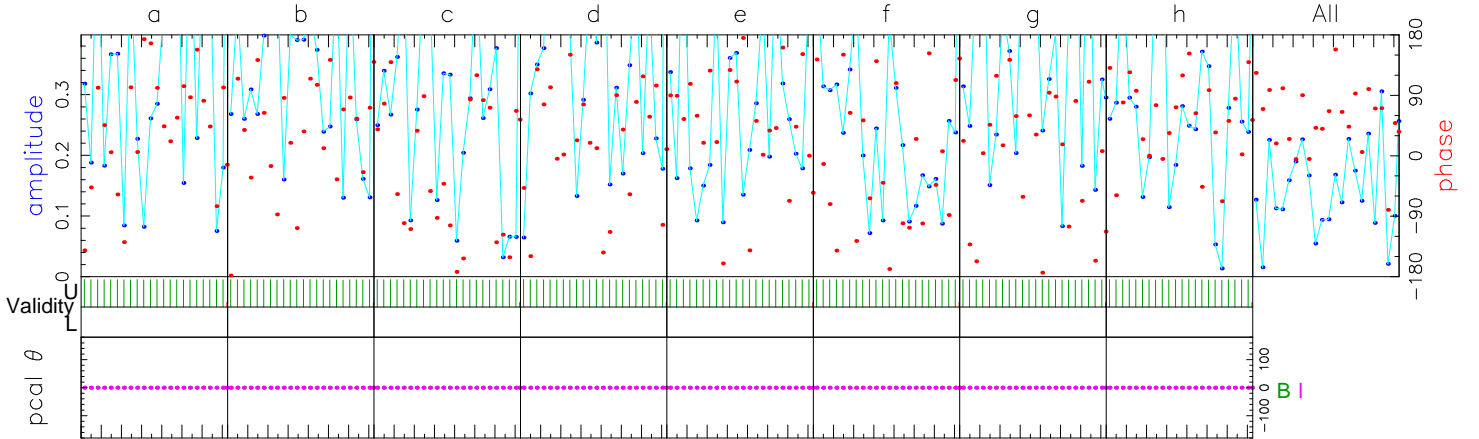
B: az 304.4 el 23.7 pa 42.9 I: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 7119.720 6446.985 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BI..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BI.W.41.18UHQS



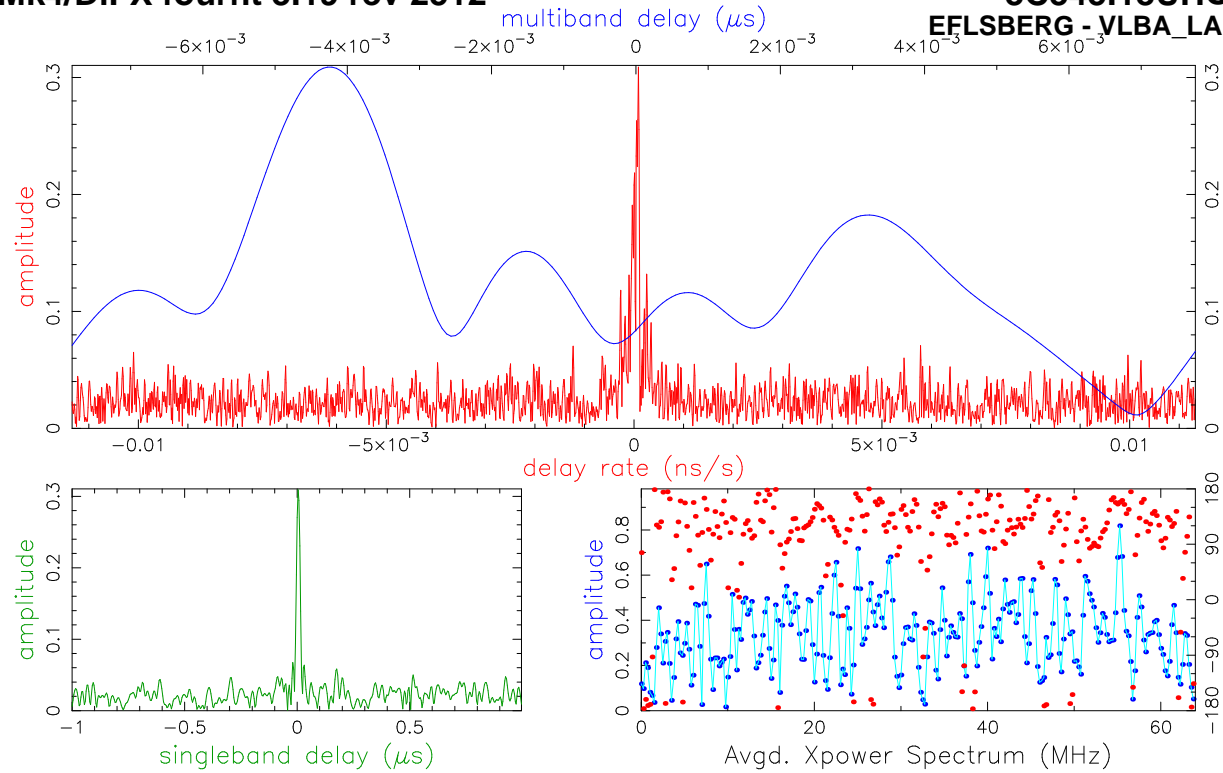


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
65.8	53.5	53.9	62.5	59.3	-169.8	59.8	66.6	66.6	Phase	64.6
0.2	0.1	0.0	0.2	0.2	0.1	0.1	0.2	0.2	Ampl.	0.1
6.6	66.3	154.3	234.2	319.7	25.7	444.8	264.7	264.7	Sbd box	263.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.26210860427E+04		Apriori delay (usec)	-1.26211190907E+04		Resid mbdelay (usec)	1.79807E-03	+/-	1.8E-04	
Sband delay (usec)	-1.26210933350E+04		Apriori clock (usec)	1.6756166E+01		Resid sbdelay (usec)	2.57558E-02	+/-	1.4E-03	
Phase delay (usec)	-1.26211190887E+04		Apriori clockrate (us/s)	-4.8999999E-08		Resid phdelay (usec)	2.08234E-06	+/-	6.1E-07	
Delay rate (us/s)	-9.32006683249E-01		Apriori rate (us/s)	-9.31998885072E-01		Resid rate (us/s)	-7.79818E-06	+/-	2.5E-09	
Total phase (deg)		-106.9	Apriori accel (us/s/s)	8.07188808616E-05		Resid phase (deg)	64.6	+/-	18.9	

	RMS	Theor.	Amplitude	0.133 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	50.8	45.4	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	73.6	79.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	51.8	26.8	Inc. seg. avg.	0.134	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	49.3	46.7	Inc. frq. avg.	0.130	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

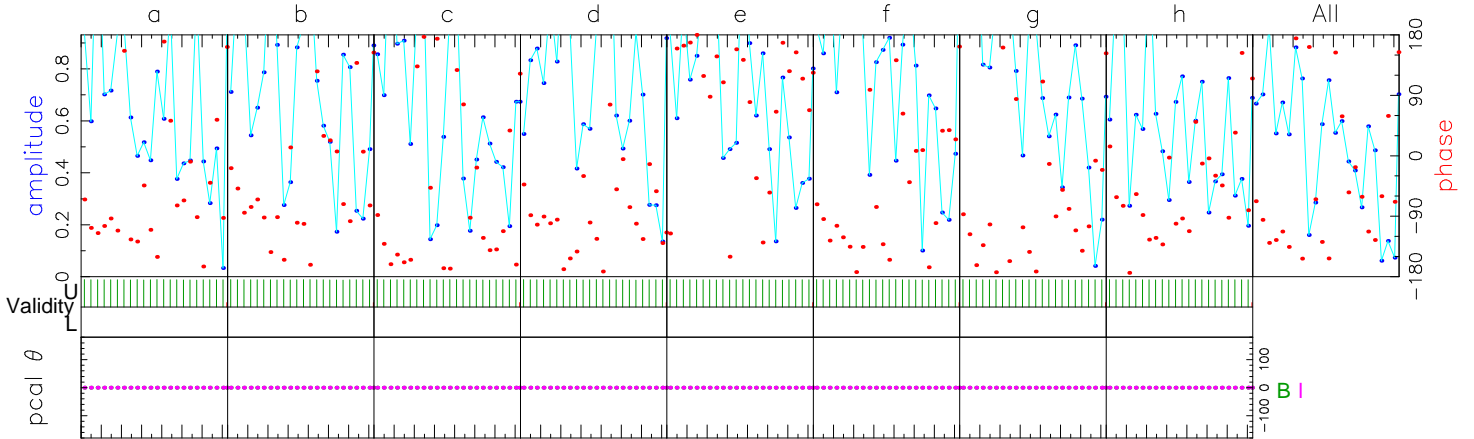


Fringe quality 8

SNR 17.3  
Int time 415.990  
Amp 0.310  
Phase -124.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.004775  
MBD -0.004220  
Fringe rate (Hz) 0.007865  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143526  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

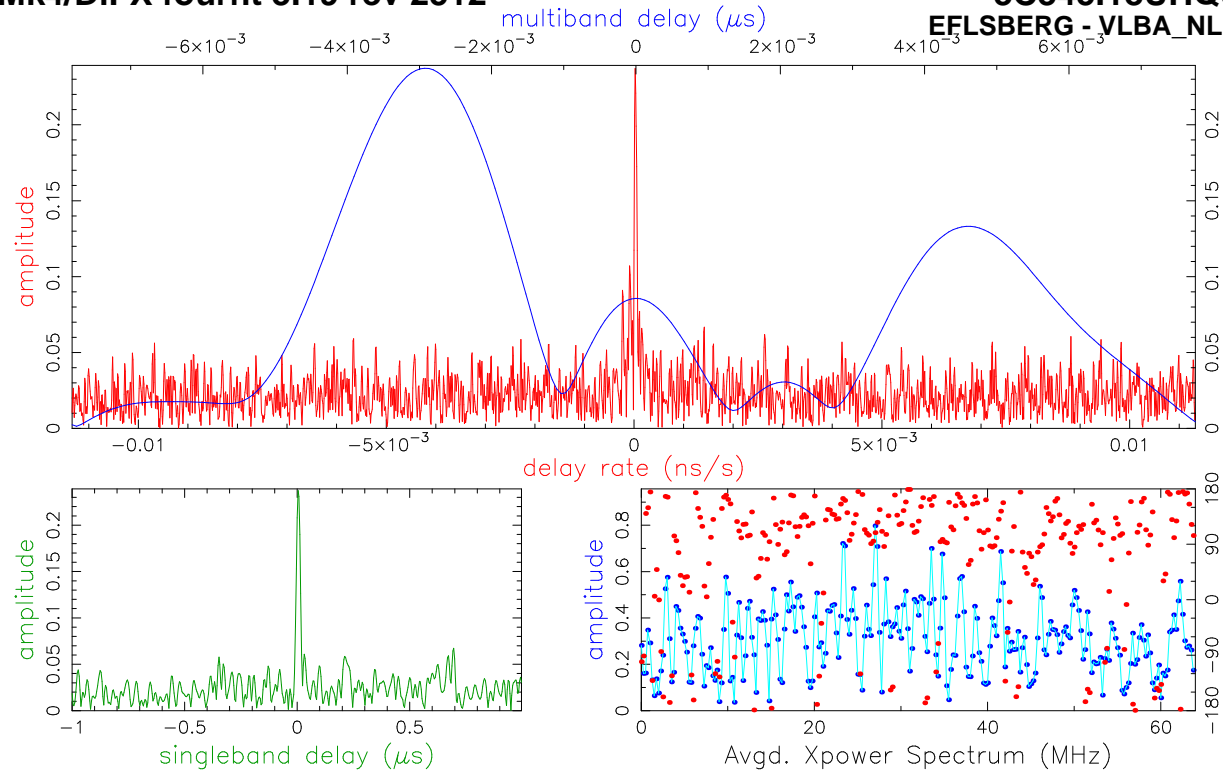
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	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: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)	-1.26211076859E+04									
Sband delay (usec)	-1.26211143157E+04									
Phase delay (usec)	-1.26211190948E+04									
Delay rate (us/s)	-9.31998793771E-01									
Total phase (deg)			-296.2							
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 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal $\theta$										
pcal mode										
pcal rate										
bits/sample										
sample rate										
data rate										
nlags										
t_cohere										
sb window										
mb window										
dr window										
ion window										
pcal $\theta$										
pcal mode										
pcal rate										
bits/sample										
sample rate										
data rate										
nlags										
t_cohere										
sb window										
mb window										
dr window										
ion window										
pcal $\theta$										
pcal mode										
pcal rate										
bits/sample										
sample rate										
data rate										
nlags										
t_cohere										
sb window										
mb window										
dr window										
ion window										

B: az 304.4 el 23.7 pa 42.9 I: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 7119.720 6446.985 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BI..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BI.W.9.18UHQS

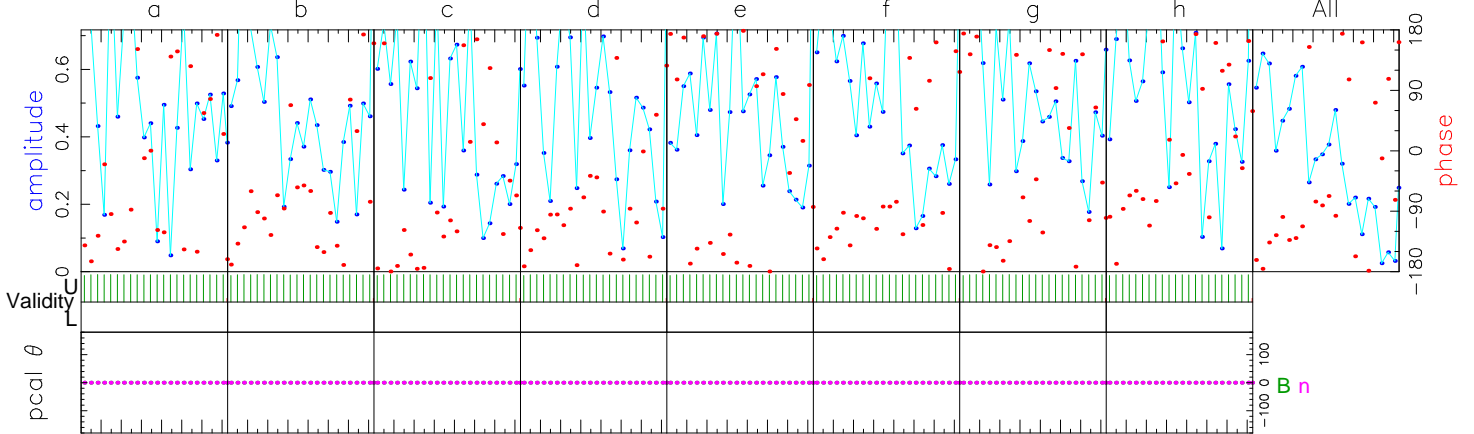


Fringe quality 9

SNR 13.3  
Int time 415.115  
Amp 0.239  
Phase -134.5  
PFD 9.3e-32  
Delays (us)  
SBD 0.005190  
MBD -0.002880  
Fringe rate (Hz) 0.001619  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.51  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143527  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

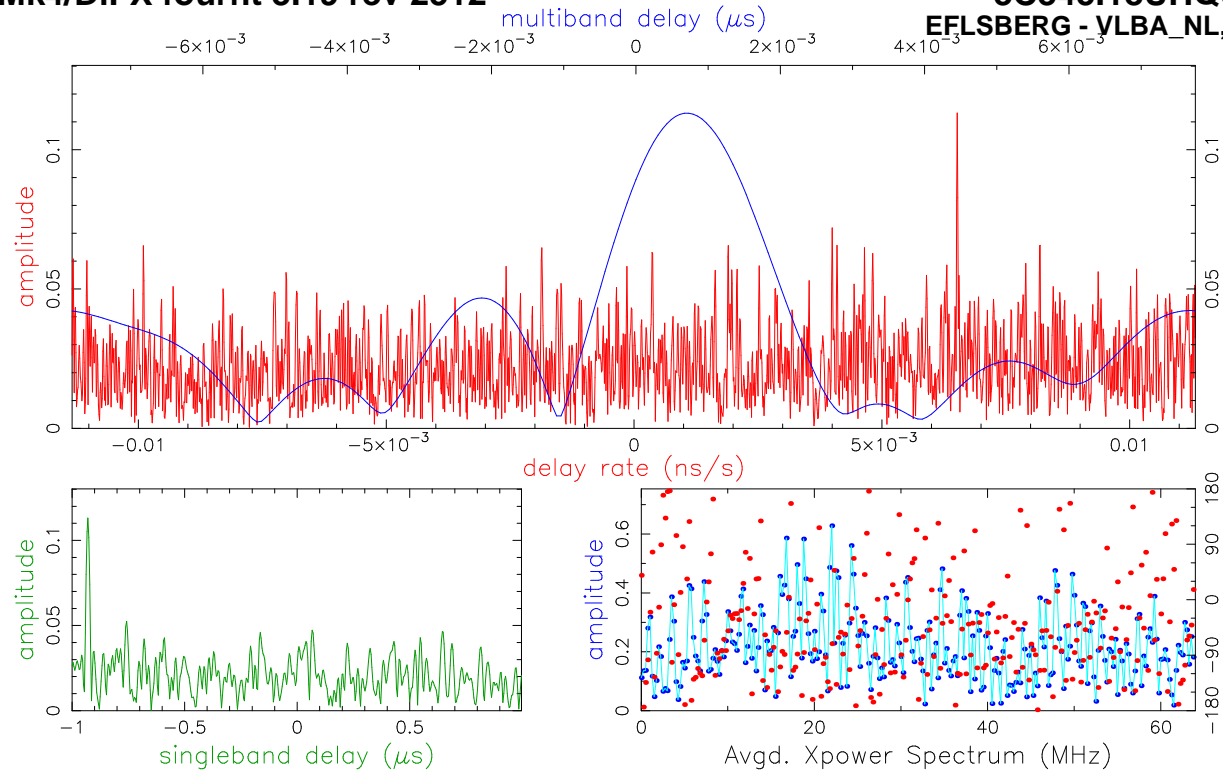
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-138.5	-106.5	-152.8	-108.1	172.4	-123.4	-171.7	-89.1	Phase	-134.5
	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	Ampl.	0.3
	259.2	257.8	258.3	259.0	259.4	258.9	259.0	259.3	Sbd box	258.3
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.29222563545E+04		Apriori delay (usec)		-1.29222690997E+04		Resid mbdelay (usec)		-2.87980E-03	+/- 8.1E-05
Sband delay (usec)	-1.29222639097E+04		Apriori clock (usec)		-1.9240480E+01		Resid sbdelay (usec)		5.19000E-03	+/- 6.5E-04
Phase delay (usec)	-1.29222691040E+04		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		-4.33882E-06	+/- 2.8E-07
Delay rate (us/s)	-6.89852986612E-01		Apriori rate (us/s)		-6.89853005408E-01		Resid rate (us/s)		1.87966E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		7.62542289440E-05		Resid phase (deg)		-134.5	+/- 8.6

ph/seg (deg) 68.0 20.6 Search (2048X32) 0.235 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 89.9 36.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 37.0 12.2 Inc. seg. avg. 0.319 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 24.8 21.2 Inc. frq. avg. 0.272 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 304.4 el 23.7 pa 42.9 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) 5304.994 5627.834 ion window (TEC) 0.00 0.00 simultaneous interpolator



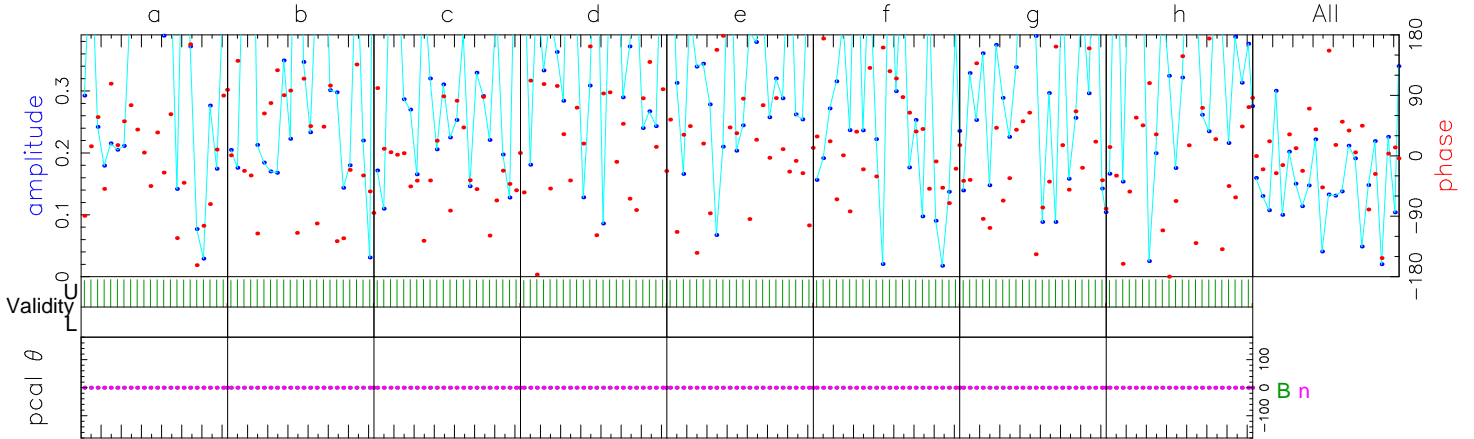


Fringe quality 0

SNR 6.3  
Int time 415.115  
Amp 0.130  
Phase 7.7  
PFD 7.4e-02  
Delays (us)  
SBD -0.930036  
MBD 0.000696  
Fringe rate (Hz) 0.562245  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.51  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143537  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



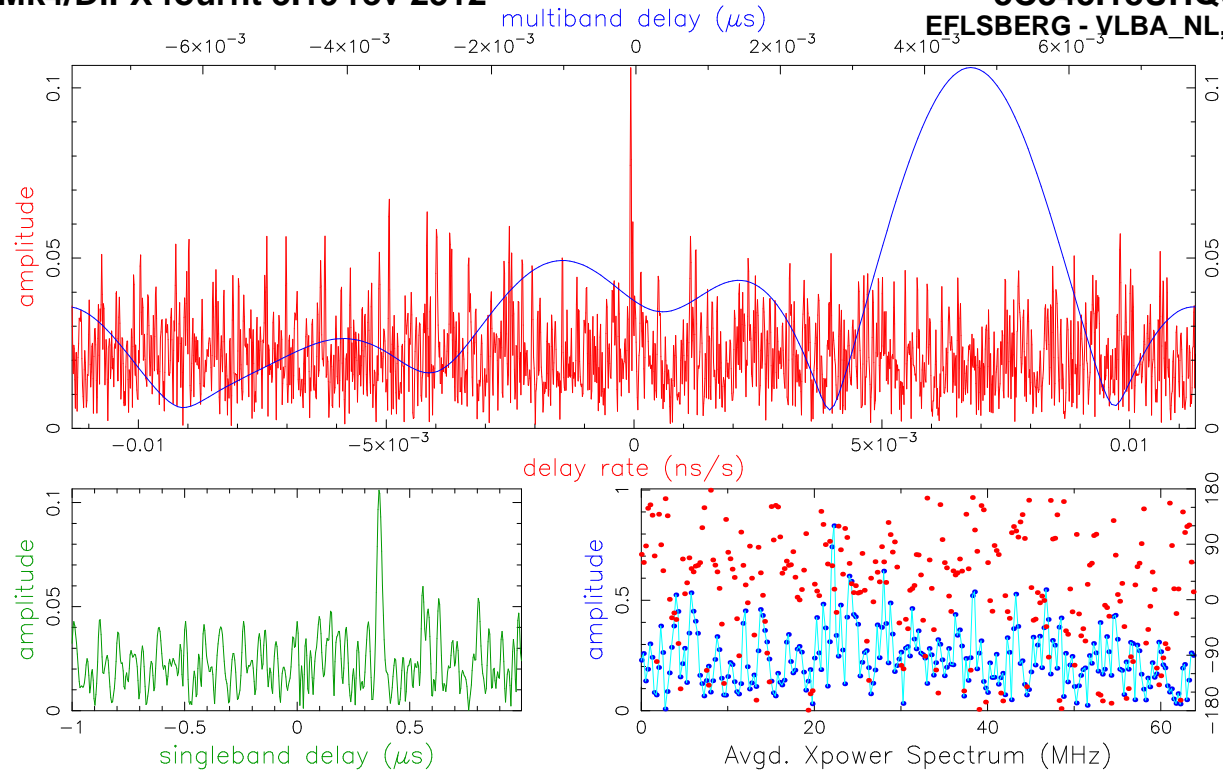
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.29232059036E+04								6.96082E-04	+/- 1.7E-04
Sband delay (usec)	-1.29231991354E+04								-9.30036E-01	+/- 1.4E-03
Phase delay (usec)	-1.29222690995E+04								2.46927E-07	+/- 5.9E-07
Delay rate (us/s)	-6.89846478299E-01								6.52711E-06	+/- 2.4E-09
Total phase (deg)			-81.6						7.7	+/- 18.2
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 (us/s)										
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) 57.4 43.6 Amplitude 0.130 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 67.0 76.0 Search (2048X32) 0.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 18.0 25.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 37.5 44.8 Inc. seg. avg. 0.133 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 0.123 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 304.4 el 23.7 pa 42.9 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) 5304.994 5627.834 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/Bn..18UHQS Output file: /Exps/c201b/v1/1234/No0057/Bn.W.52.18UHQS



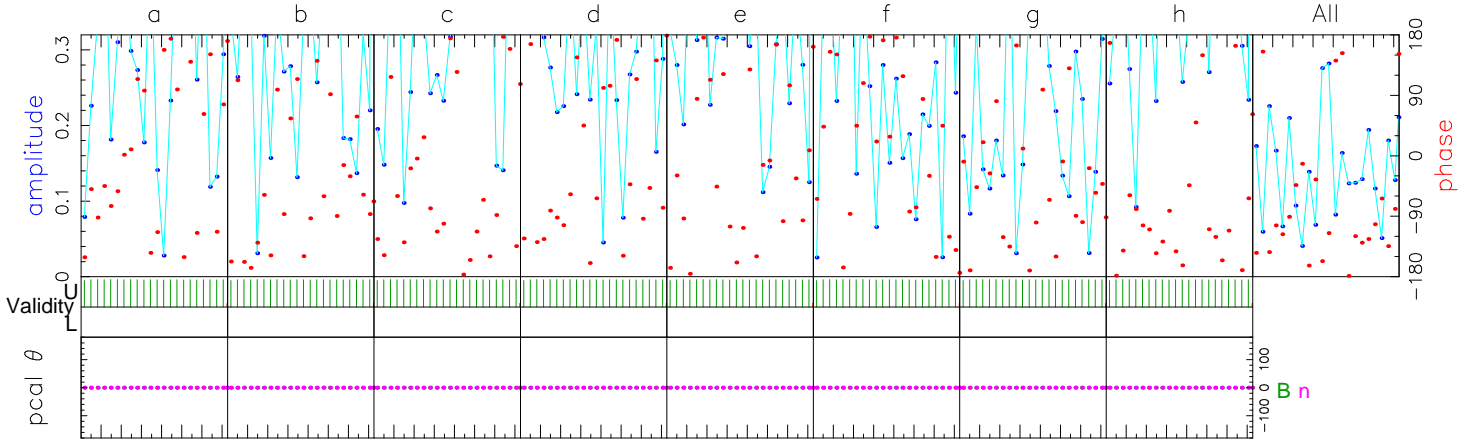


Fringe quality 0

SNR 5.9  
Int time 415.115  
Amp 0.107  
Phase -129.7  
PFD 5.2e-01  
Delays (us)  
SBD 0.364621  
MBD 0.004670  
Fringe rate (Hz)  
-0.005802  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.51  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143541  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

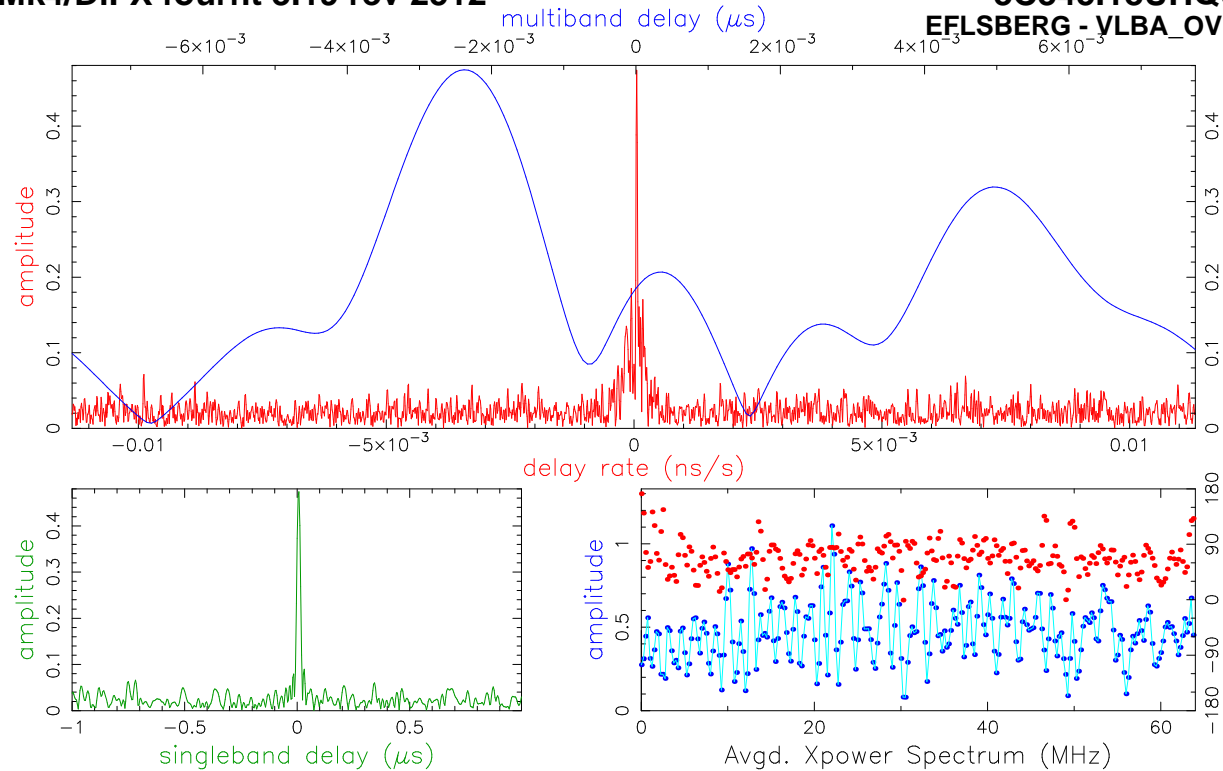
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.29219050548E+04				-1.29222690997E+04				4.66985E-03	+/- 1.8E-04
Sband delay (usec)	-1.29219044782E+04				-1.9240480E+01				3.64621E-01	+/- 1.5E-03
Phase delay (usec)	-1.29222691039E+04				-5.3399998E-07				-4.18186E-06	+/- 6.2E-07
Delay rate (us/s)	-6.89853072766E-01				-6.89853005408E-01				-6.73576E-08	+/- 2.6E-09
Total phase (deg)			-219.0		7.62542289440E-05				-129.7	+/- 19.3
pcal mode:	MANUAL, MANUAL				MANUAL, MANUAL				PC period (AP's) 5, 5	
pcal rate:	0.000E+00, 0.000E+00 (us/s)				0.000E+00, 0.000E+00 (us/s)				sb window (us) -1.000 1.000	
Bits/sample:	2x2				2x2				mb window (us) -0.008 0.008	
Sample rate (MSamp/s):	128				128				dr window (ns/s) -0.011 0.011	
Data rate (Mb/s):	2048				2048				ion window (TEC) 0.00 0.00	
nlags:	256				256				ion window (TEC) 0.00 0.00	
t_cohere:	infinite				infinite				simultaneous interpolator	

B: az 304.4 el 23.7 pa 42.9 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) 5304.994 5627.834

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/Bn..18UHQS Output file: /Exps/c201b/v1/1234/No0057/Bn.W.71.18UHQS

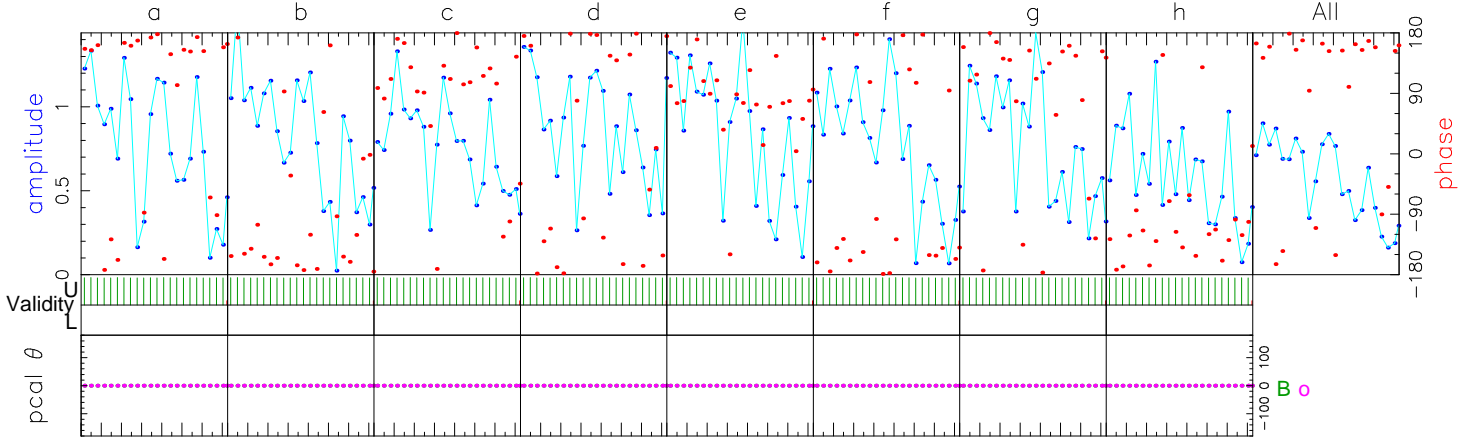


Fringe quality 6

SNR 26.8  
Int time 415.050  
Amp 0.480  
Phase 169.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.006320  
MBD -0.002432  
Fringe rate (Hz)  
0.004962  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143528  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

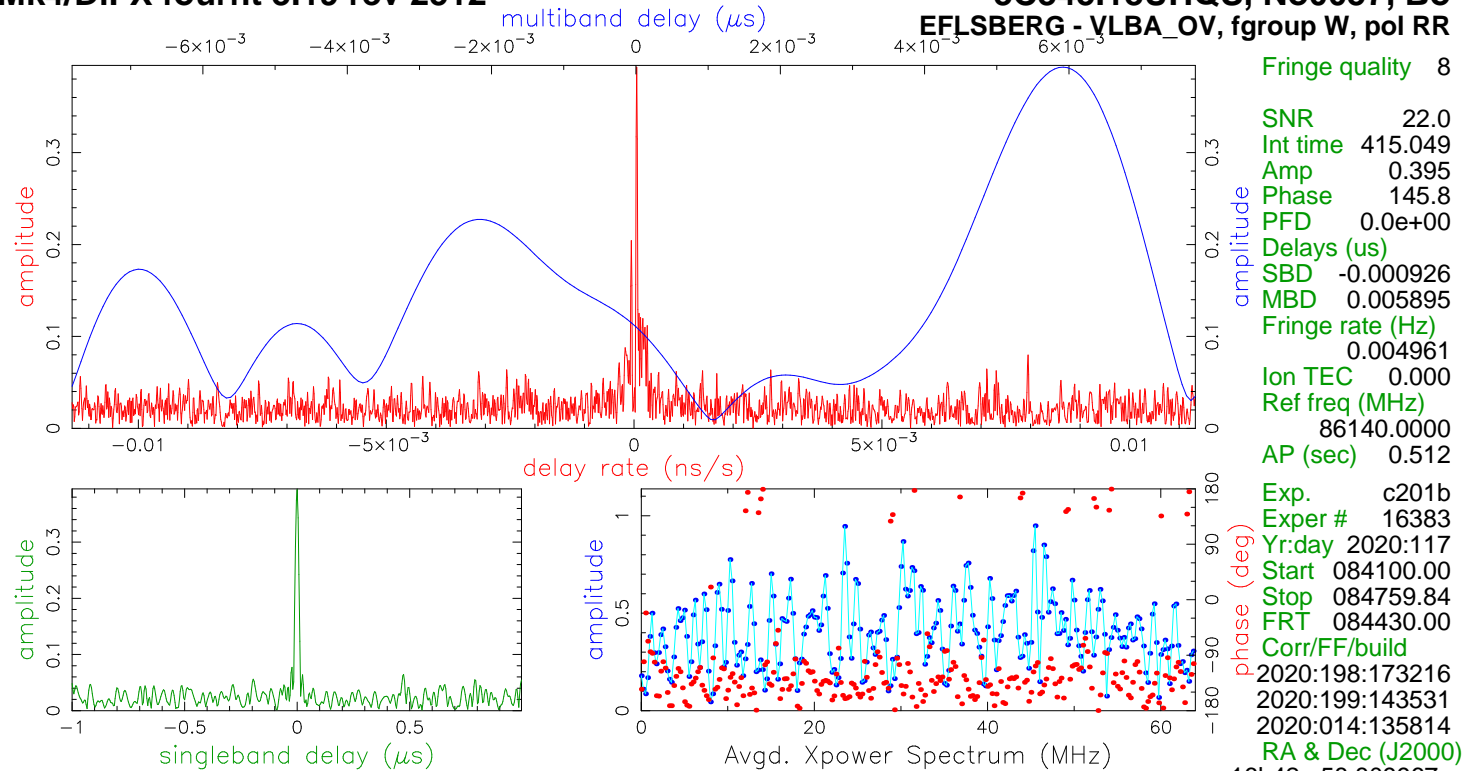
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.18676475863E+04				-1.18676607795E+04				-2.43180E-03	+/- 4.1E-05
Sband delay (usec)	-1.18676544595E+04				-7.0399284E+00				6.32000E-03	+/- 3.2E-04
Phase delay (usec)	-1.18676607740E+04				-4.0100001E-07				5.46429E-06	+/- 1.4E-07
Delay rate (us/s)	-1.11879723459E+00				-1.11879729220E+00				5.76079E-08	+/- 5.7E-10
Total phase (deg)			-26.0		7.51165184755E-05				169.4	+/- 4.3
	RMS	Theor.	Amplitude	0.480 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	49.3	10.3	Search (2048X32)	0.470	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	51.9	17.9	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	46.7	6.1	Inc. seg. avg.	0.569	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	29.1	10.6	Inc. frq. avg.	0.604	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
					nlags: 256				t_cohere infinite	

B: az 304.4 el 23.7 pa 42.9 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 8498.825 5921.471 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/Bo..18UHQS Output file: /Exps/c201b/v1/1234/No0057/Bo.W.12.18UHQS



Fringe quality 8

SNR 22.0

Int time 415.049

Amp 0.395

Phase 145.8

PFD 0.0e+00

Delays (us)

SBD -0.000926

MBD 0.005895

Fringe rate (Hz) 0.004961

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 084100.00

Stop 084759.84

FRT 084430.00

Corr/FF/build

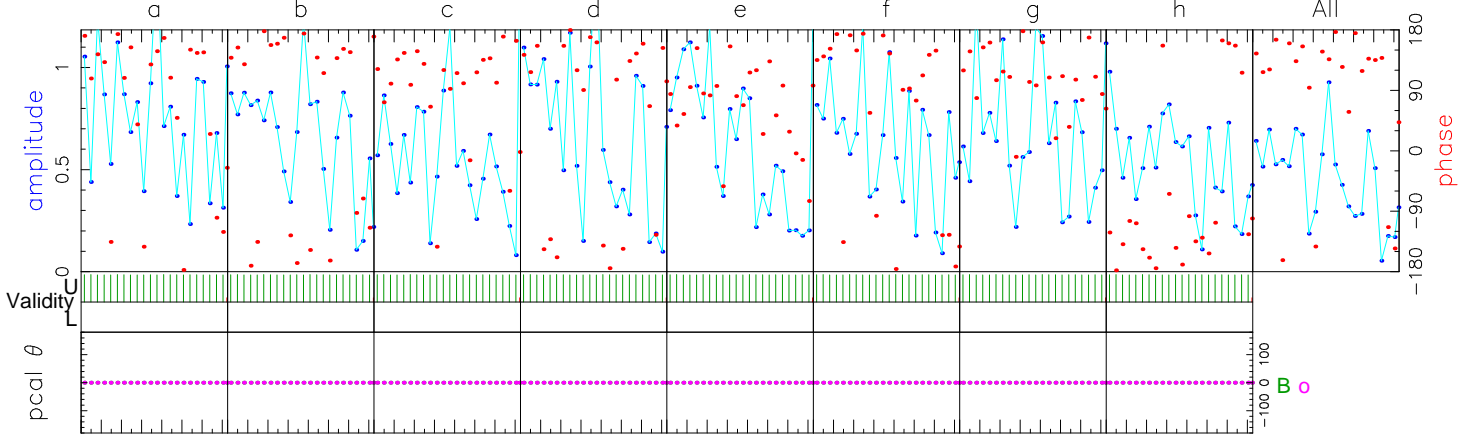
2020:198:173216

2020:199:143531

2020:014:135814

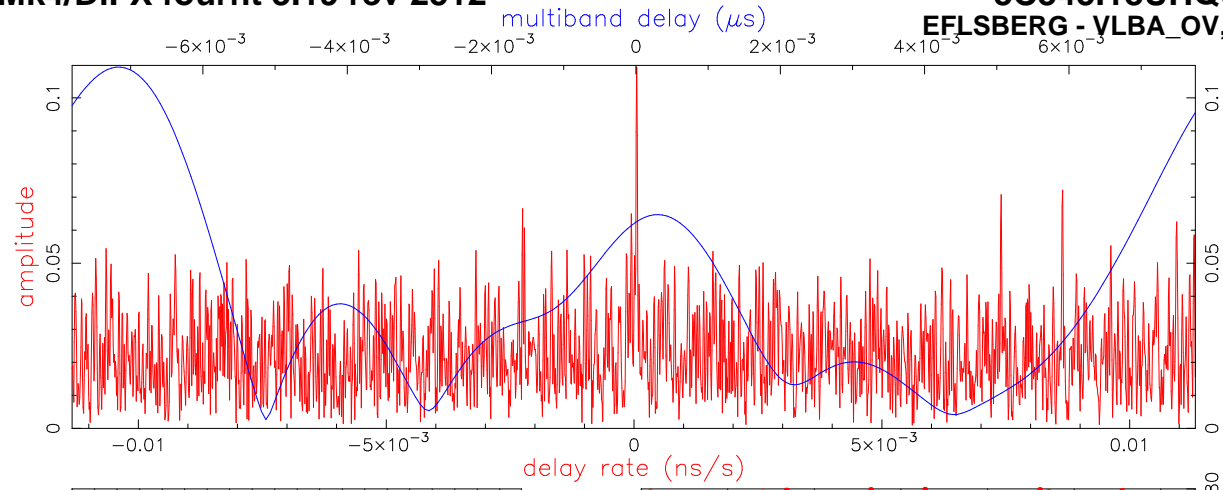
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

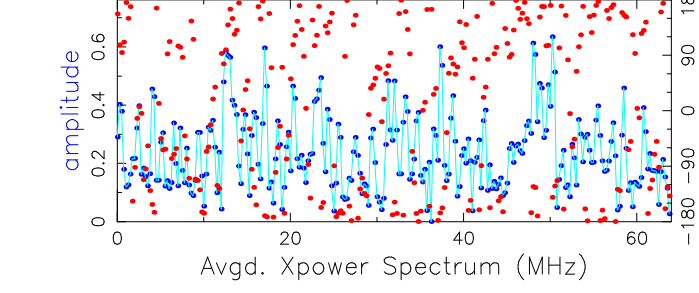
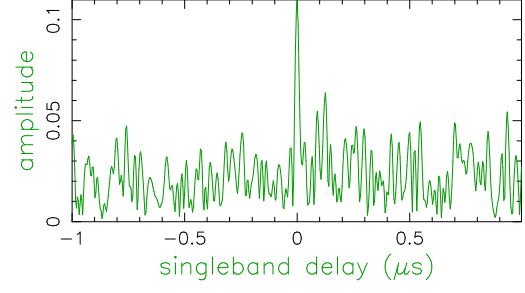


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	147.5	168.9	116.5	166.9	83.4	157.1	110.5	-146.3	Phase	145.8
	0.5	0.5	0.4	0.6	0.5	0.5	0.5	0.4	Ampl.	0.5
	257.0	256.5	257.4	257.1	257.8	257.0	257.5	257.7	Sbd box	256.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.18676548847E+04		Apriori delay (usec)		-1.18676607795E+04		Resid mbdelay (usec)		5.89474E-03	+/- 4.9E-05
Sband delay (usec)	-1.18676617050E+04		Apriori clock (usec)		-7.0399284E+00		Resid sbdelay (usec)		-9.25500E-04	+/- 3.9E-04
Phase delay (usec)	-1.18676607748E+04		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		4.70256E-06	+/- 1.7E-07
Delay rate (us/s)	-1.11879723461E+00		Apriori rate (us/s)		-1.11879729220E+00		Resid rate (us/s)		5.75909E-08	+/- 6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		7.51165184755E-05		Resid phase (deg)		145.8	+/- 5.2

	RMS	Theor.	Amplitude	0.395 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	42.7	12.5	Search (2048X32)	0.388	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	57.0	21.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	44.2	7.4	Inc. seg. avg.	0.453	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	26.5	12.9	Inc. frq. avg.	0.481	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

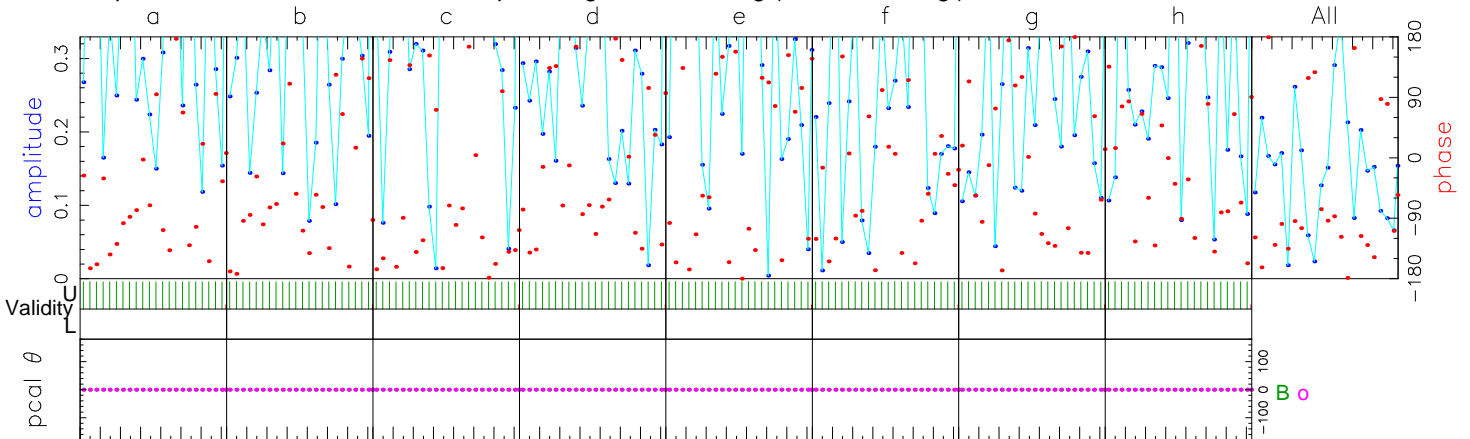


Fringe quality 0  
SNR 6.1  
Int time 415.049  
Amp 0.110  
Phase -125.3  
PFD 2.2e-01  
Delays (us)  
SBD -0.000977  
MBD -0.007185  
Fringe rate (Hz) 0.005145  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143536  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"



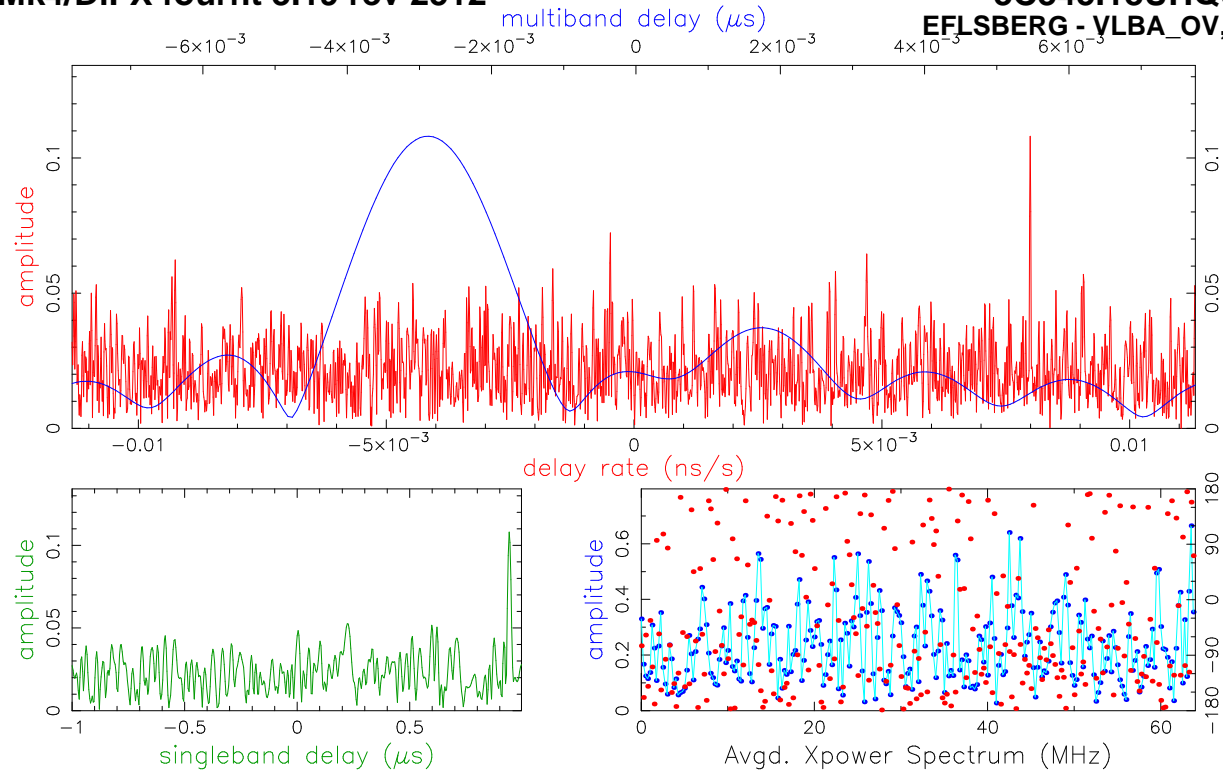
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



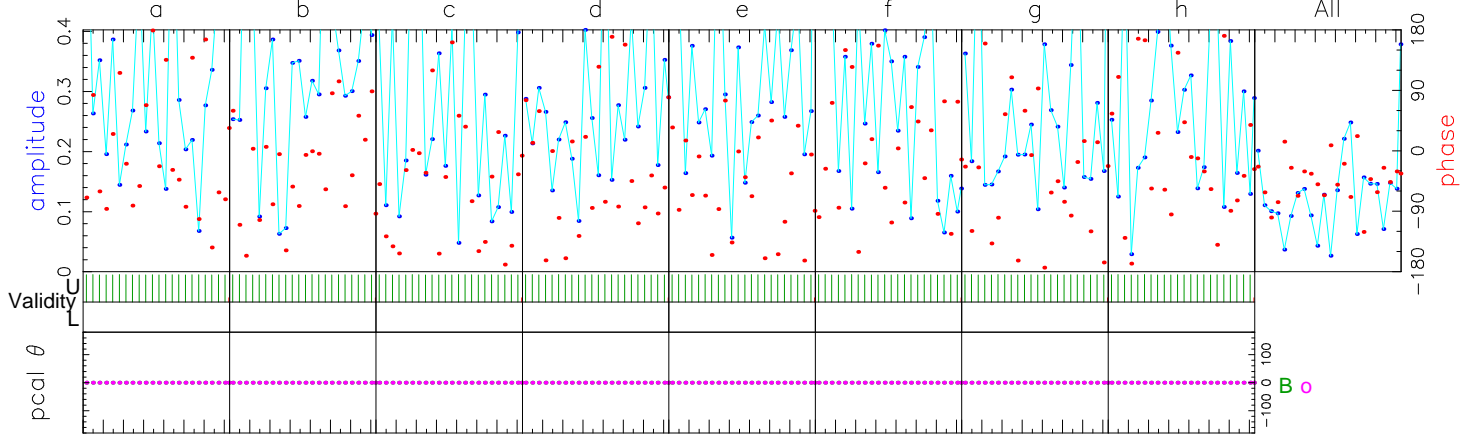
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-123.6	-95.9	-142.7	-97.7	-174.2	-105.1	-125.9	-16.7	Phase	-125.3
	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.0	Ampl.	0.1
	256.8	217.4	256.7	487.8	258.1	56.8	511.6	289.1	Sbd box	256.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.18676679644E+04		Apriori delay (usec)		-1.18676607795E+04		Resid mbdelay (usec)		-7.18492E-03	+/- 1.8E-04
Sband delay (usec)	-1.18676617567E+04		Apriori clock (usec)		-7.0399284E+00		Resid sbdelay (usec)		-9.77250E-04	+/- 1.4E-03
Phase delay (usec)	-1.18676607835E+04		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		-4.04177E-06	+/- 6.0E-07
Delay rate (us/s)	-1.11879723248E+00		Apriori rate (us/s)		-1.11879729220E+00		Resid rate (us/s)		5.97243E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		7.51165184755E-05		Resid phase (deg)		-125.3	+/- 18.7

ph/seg (deg) 64.3 44.9 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 84.0 78.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 52.5 26.5 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 51.8 46.2 Inc. frq. avg. 0.117 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 304.4 el 23.7 pa 42.9 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 8498.825 5921.471 ion window (TEC) 0.00 0.00  
 simultaneous interpolator



Fringe quality 0  
SNR 6.0  
Int time 415.050  
Amp 0.134  
Phase -48.3  
PFD 3.4e-01  
Delays (us)  
SBD 0.942099  
MBD -0.002853  
Fringe rate (Hz) 0.690033  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143540  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

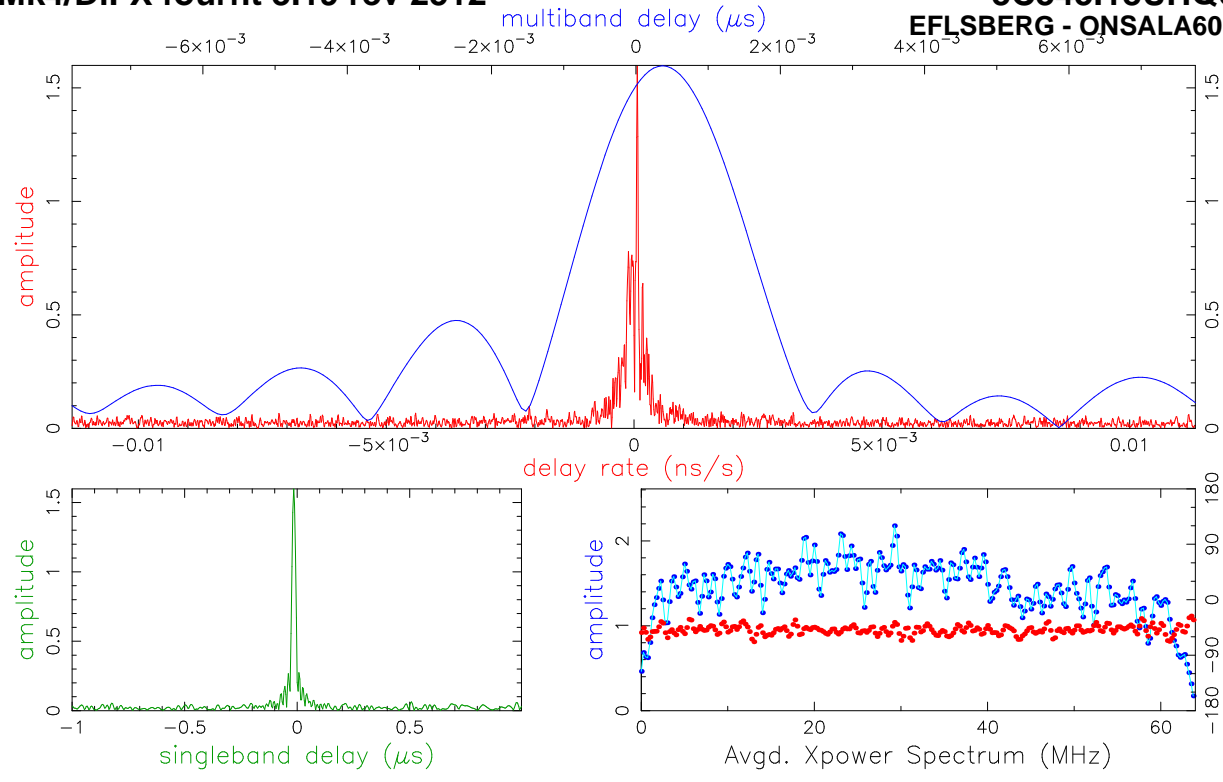
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-59.1	-22.2	-54.0	-60.9	-48.1	-32.6	-42.4	-64.2	Phase	-48.3
	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	499.4	47.9	57.4	411.2	499.7	52.7	293.3	51.2	Sbd box	498.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-1.18667261321E+04		Apriori delay (usec)		-1.18676607795E+04		Resid mbdelay (usec)		-2.85260E-03	+/- 1.8E-04
Sband delay (usec)	-1.18667186805E+04		Apriori clock (usec)		-7.0399284E-07		Resid sbdelay (usec)		9.42099E-01	+/- 1.4E-03
Phase delay (usec)	-1.18676607810E+04		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		-1.55645E-06	+/- 6.1E-07
Delay rate (us/s)	-1.11878928161E+00		Apriori rate (us/s)		-1.11879729220E+00		Resid rate (us/s)		8.01059E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		7.51165184755E-05		Resid phase (deg)		-48.3	+/- 19.0

ph/seg (deg) 33.9 45.5 Amplitude 0.134 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 56.5 79.5 Search (2048X32) 0.099 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 15.9 26.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 18.1 46.9 Inc. seg. avg. 0.116 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 0.124 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00



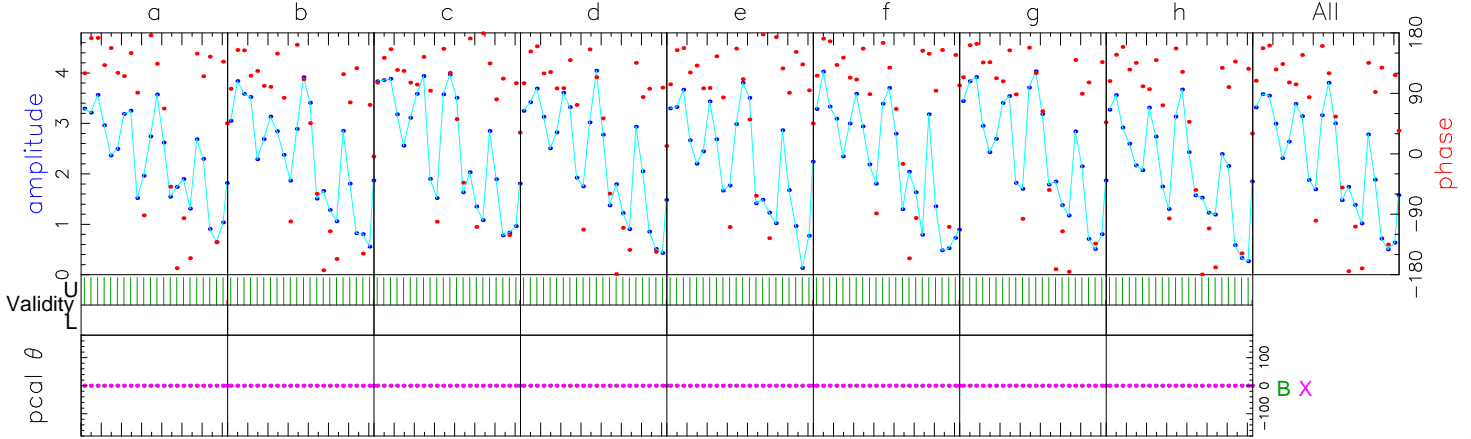


Fringe quality 5

SNR 89.6  
Int time 419.781  
Amp 1.599  
Phase 131.9  
PFD 0.0e+00  
Delays (us)  
SBD -0.015141  
MBD 0.000381  
Fringe rate (Hz) 0.005836  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143529  
2020:014:135814  
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



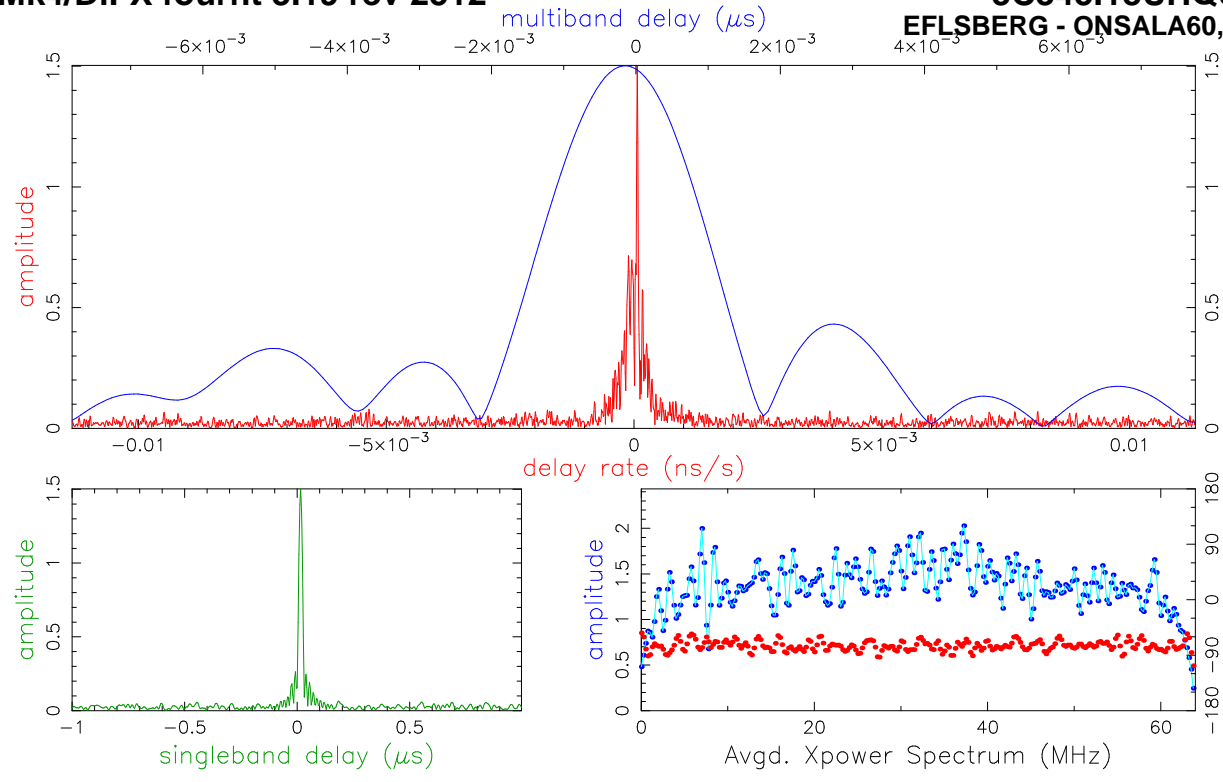
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-5.60920687628E+02	Apriori delay (usec)	-5.60905444092E+02	Resid mbdelay (usec)	3.81464E-04	+/-	1.2E-05
Sband delay (usec)	-5.60920584842E+02	Apriori clock (usec)	-2.7715532E+01	Resid sbdelay (usec)	-1.51408E-02	+/-	9.6E-05
Phase delay (usec)	-5.60905439838E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	4.25322E-06	+/-	4.1E-08
Delay rate (us/s)	-1.27218898220E-01	Apriori rate (us/s)	-1.27218965974E-01	Resid rate (us/s)	6.77537E-08	+/-	1.7E-10
Total phase (deg)	-211.6	Apriori accel (us/s/s)	-2.26412219901E-06	Resid phase (deg)	131.9	+/-	1.3

ph/seg (deg)	65.0	RMS	3.1	Theor.	3.1	Amplitude	1.599 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.4	Search (2048X32)	1.578	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	9.2	Inc. seg. avg.	2.292	Inc. frq. avg.	1.611	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	6.5	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite

B: az 304.4 el 23.7 pa 42.9 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) 941.682 -643.230 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BX.W.15.18UHQS

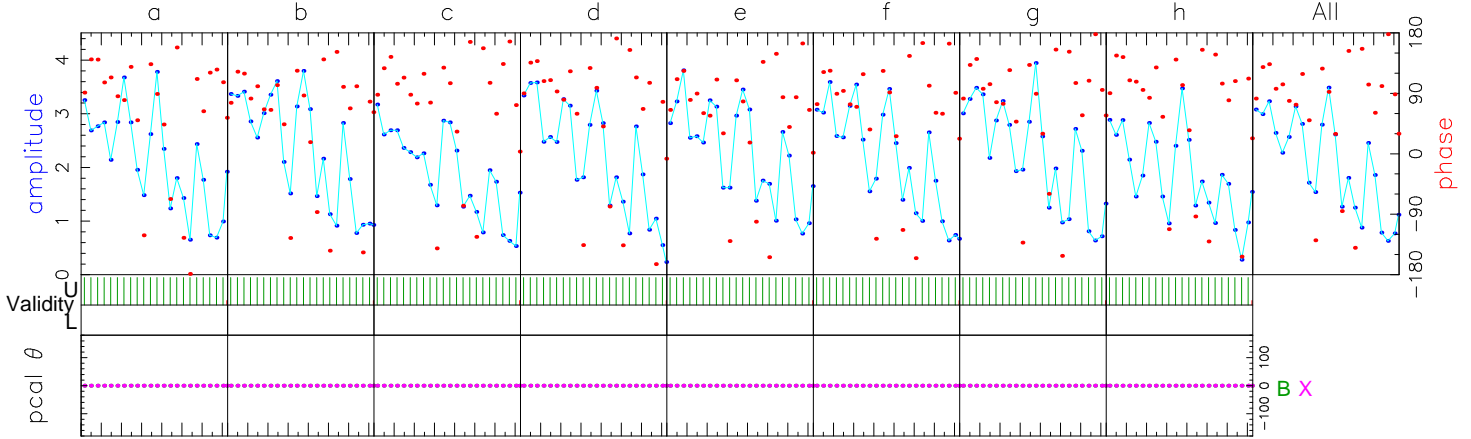


Fringe quality 5

SNR 84.2  
Int time 419.781  
Amp 1.503  
Phase 102.7  
PFD 0.0e+00  
Delays (us)  
SBD 0.015227  
MBD -0.000162  
Fringe rate (Hz) 0.005884  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143533  
2020:014:135814  
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

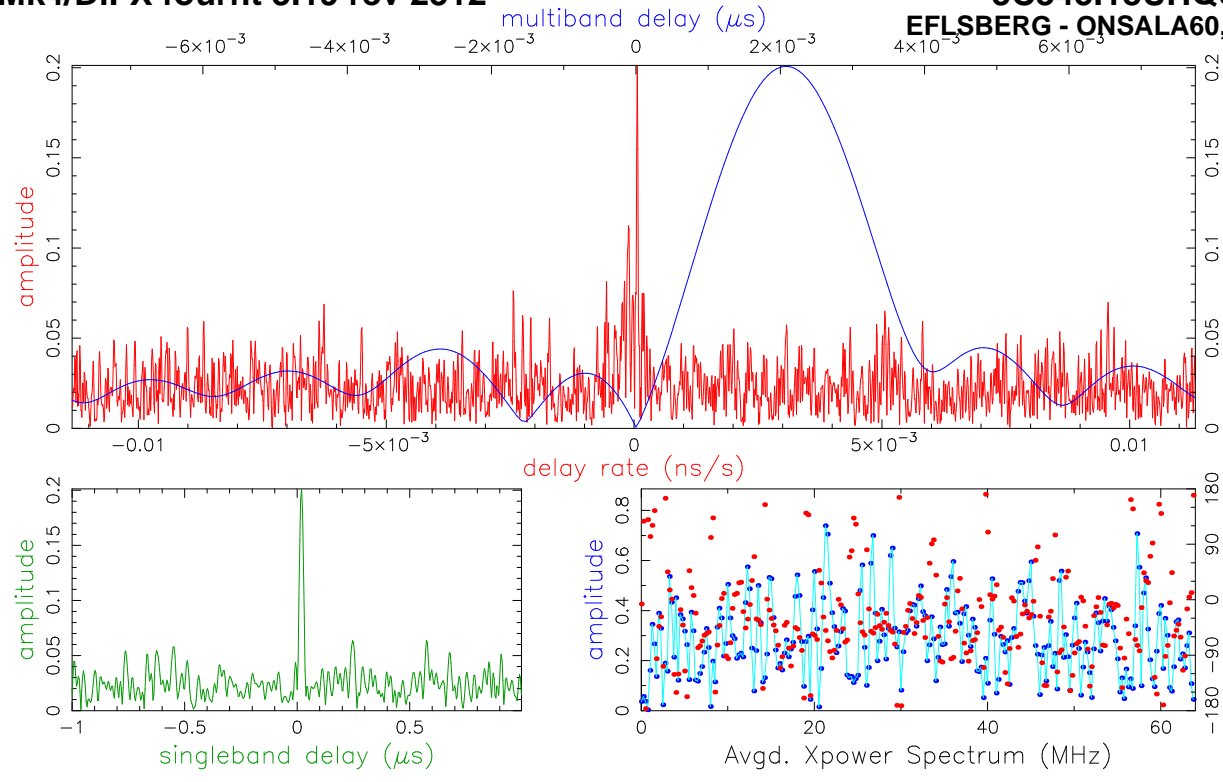


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	107.3	93.9	109.1	111.9	87.6	98.5	103.5	112.6	Phase	102.7
	1.5	1.7	1.3	1.6	1.5	1.6	1.6	1.3	Ampl.	1.5
	260.3	260.9	261.3	260.7	260.7	261.3	261.2	260.3	Sbd box	260.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.60889981065E+02		Apriori delay (usec)	-5.60905444092E+02	Resid mbdelay (usec)	-1.61974E-04	+/-	1.3E-05		
Sband delay (usec)	-5.60890217592E+02		Apriori clock (usec)	-2.7715532E+01	Resid sbdelay (usec)	1.52265E-02	+/-	1.0E-04		
Phase delay (usec)	-5.60905440779E+02		Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	3.31285E-06	+/-	4.4E-08		
Delay rate (us/s)	-1.27218897661E-01		Apriori rate (us/s)	-1.27218965974E-01	Resid rate (us/s)	6.83128E-08	+/-	1.8E-10		
Total phase (deg)		-240.7	Apriori accel (us/s/s)	-2.26412219901E-06	Resid phase (deg)	102.7	+/-	1.4		

ph/seg (deg) 62.4 3.3  
amp/seg (%) 71.3 5.7  
ph/frq (deg) 9.8 1.9  
amp/frq (%) 7.9 3.4

RMS Theor. Amplitude 1.503 +/- 0.018  
62.4 3.3 Search (2048X32) 1.474  
71.3 5.7 Interp. 0.000  
9.8 1.9 Inc. seg. avg. 2.108  
7.9 3.4 Inc. frq. avg. 1.517

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(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

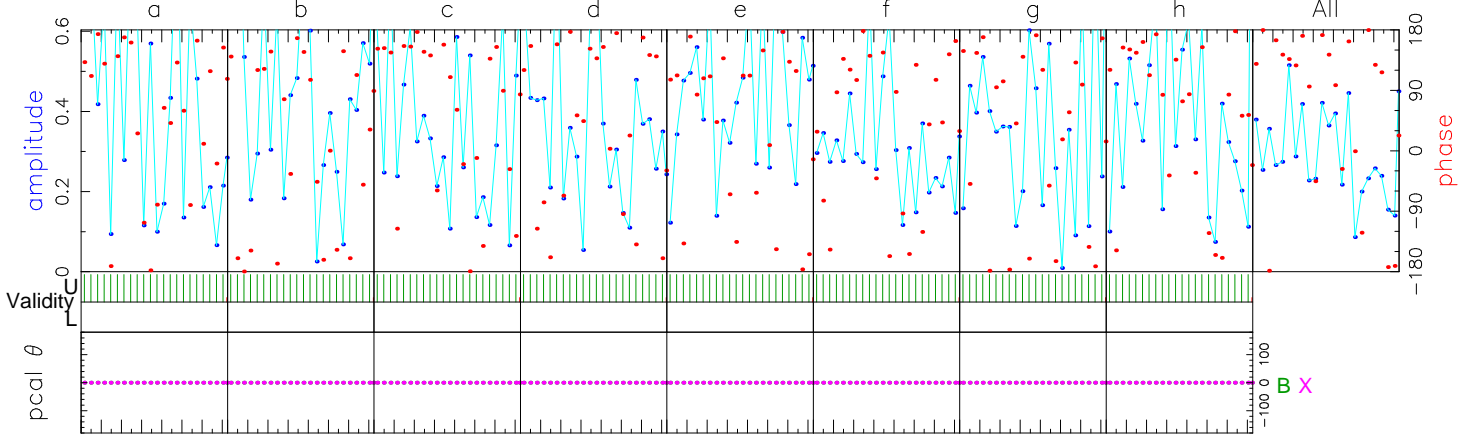


Fringe quality 9

SNR 11.3  
Int time 419.781  
Amp 0.201  
Phase 150.8  
PFD 8.2e-21  
Delays (us)  
SBD 0.018803  
MBD 0.002067  
Fringe rate (Hz) 0.005860  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143537  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



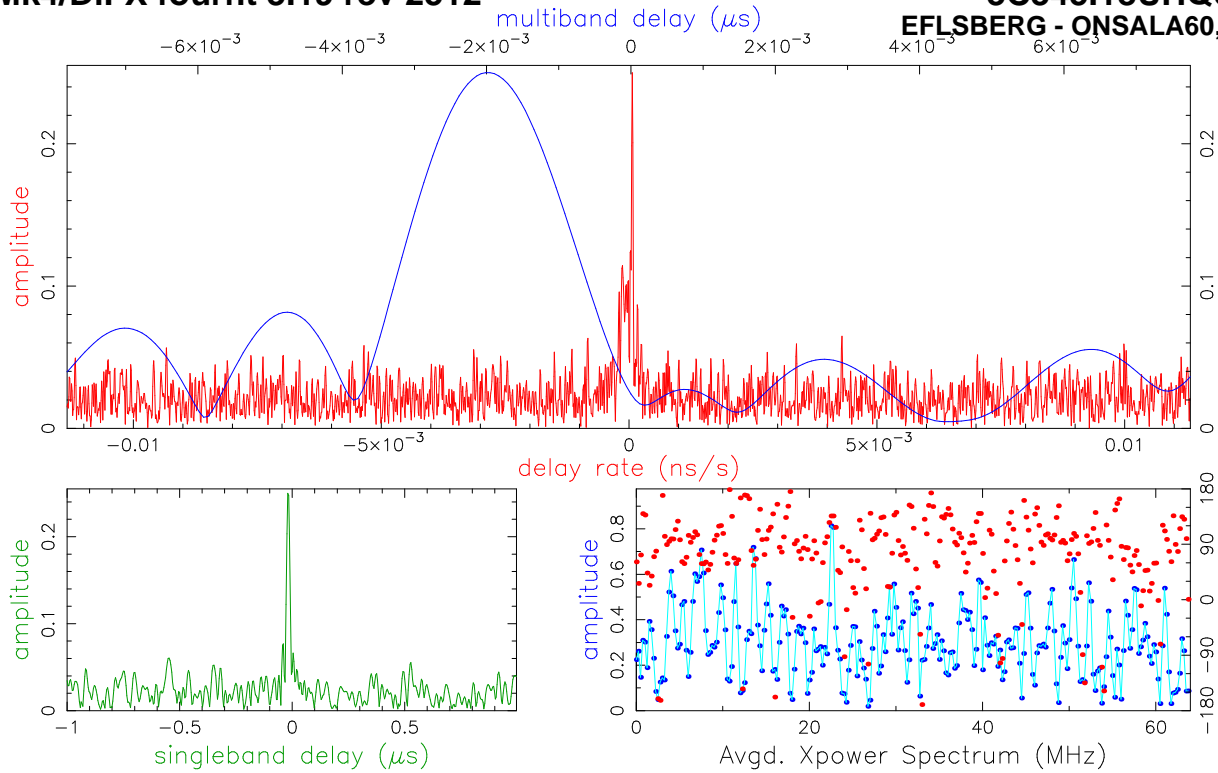
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	150.8	150.8
B	1000	1000	1000	1000	1000	1000	1000	1000	0.2	0.2
X	1000	1000	1000	1000	1000	1000	1000	1000	0.1	0.1
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.2	0.2
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	489.1	261.8
B	1000	1000	1000	1000	1000	1000	1000	1000	157.7	137.1
X	1000	1000	1000	1000	1000	1000	1000	1000	0.2	0.2
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	158.7	137.1
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	157.7	137.1

Group delay (usec)(sbd)	-5.60887752378E+02	Apriori delay (usec)	-5.60905444092E+02	Resid mbdelay (usec)	2.06671E-03	+/-	9.6E-05
Sband delay (usec)	-5.60886640592E+02	Apriori clock (usec)	-2.7715532E+01	Resid sbdelay (usec)	1.88035E-02	+/-	7.6E-04
Phase delay (usec)	-5.60905439230E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	4.86134E-06	+/-	3.3E-07
Delay rate (us/s)	-1.27218897945E-01	Apriori rate (us/s)	-1.27218965974E-01	Resid rate (us/s)	6.80293E-08	+/-	1.4E-09
Total phase (deg)	-192.7	Apriori accel (us/s/s)	-2.26412219901E-06	Resid phase (deg)	150.8	+/-	10.2

ph/seg (deg)	69.6	RMS	24.4	Theor.	0.201 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.3	Search (2048X32)	0.198	Amplitude	0.201 +/- 0.018	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	10.9	Inc. seg. avg.	0.267	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	18.5	Inc. frq. avg.	0.197	Inc. frq. avg.	0.197	Sample rate (MSamp/s):	128	ion window (TEC)	0.00 0.00	

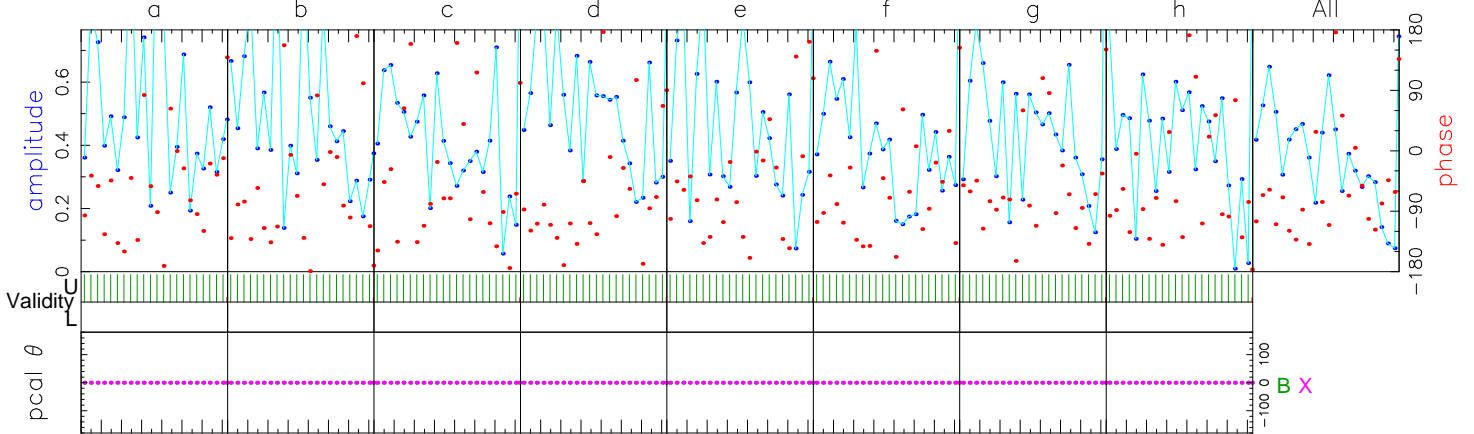
B: az 304.4 el 23.7 pa 42.9 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) 941.682 -643.230 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BX.W.54.18UHQS



Fringe quality 9  
SNR 14.3  
Int time 419.781  
Amp 0.255  
Phase -91.0  
PFD 1.5e-37  
Delays (us)  
SBD -0.017785  
MBD -0.001937  
Fringe rate (Hz) 0.006081  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143542  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

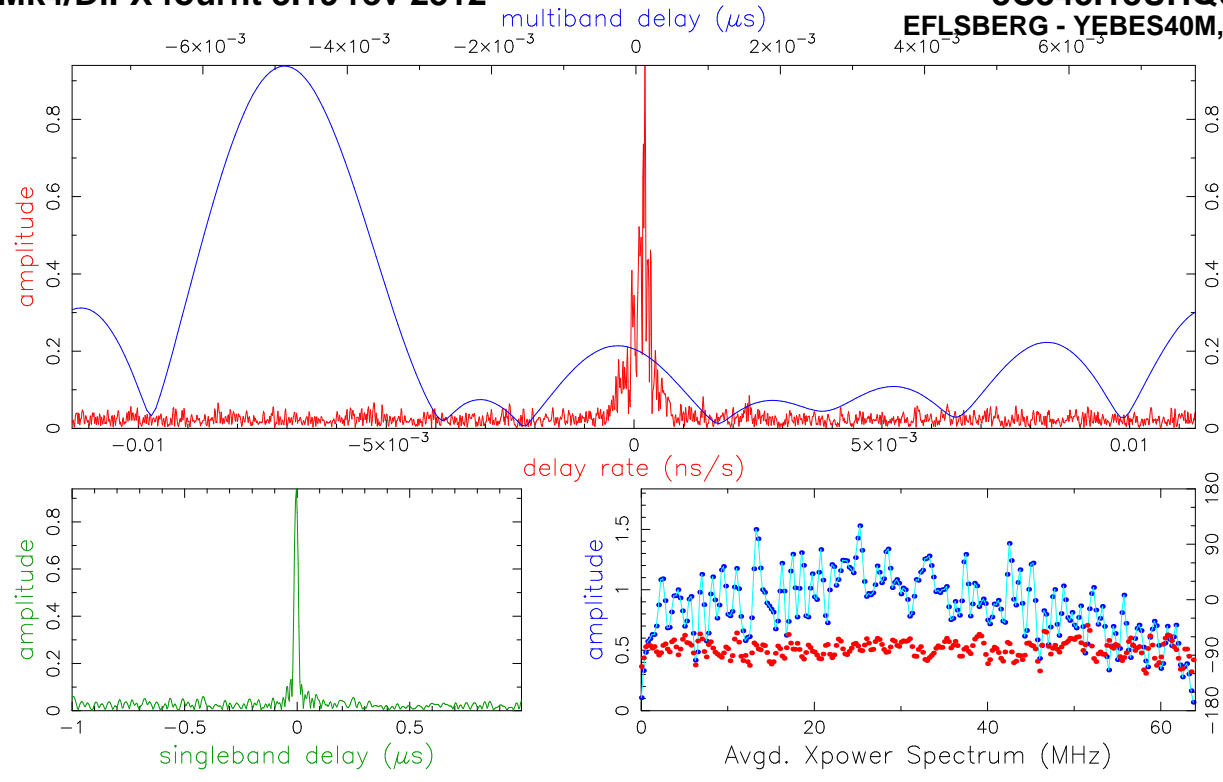


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-65.8	-101.0	-98.6	-106.1	-86.7	-86.8	-79.9	-100.9	Phase	-91.0
	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	Ampl.	0.3
	252.1	251.9	93.1	251.8	251.9	253.8	252.6	253.2	Sbd box	252.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.60923006284E+02		Apriori delay (usec)		-5.60905444092E+02		Resid mbdelay (usec)		-1.93719E-03	+/- 7.6E-05
Sband delay (usec)	-5.60923229092E+02		Apriori clock (usec)		-2.7715532E+01		Resid sbdelay (usec)		-1.77850E-02	+/- 6.0E-04
Phase delay (usec)	-5.60905447025E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-2.93386E-06	+/- 2.6E-07
Delay rate (us/s)	-1.27218895380E-01		Apriori rate (us/s)		-1.27218965974E-01		Resid rate (us/s)		7.05943E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.26412219901E-06		Resid phase (deg)		-91.0	+/- 8.0

ph/seg (deg) 56.0 19.2 Search (2048X32) 0.241 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 73.7 33.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 14.6 11.3 Inc. seg. avg. 0.344 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 19.6 19.8 Inc. frq. avg. 0.252 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 304.4 el 23.7 pa 42.9 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) 941.682 -643.230 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BX.W.76.18UHQS





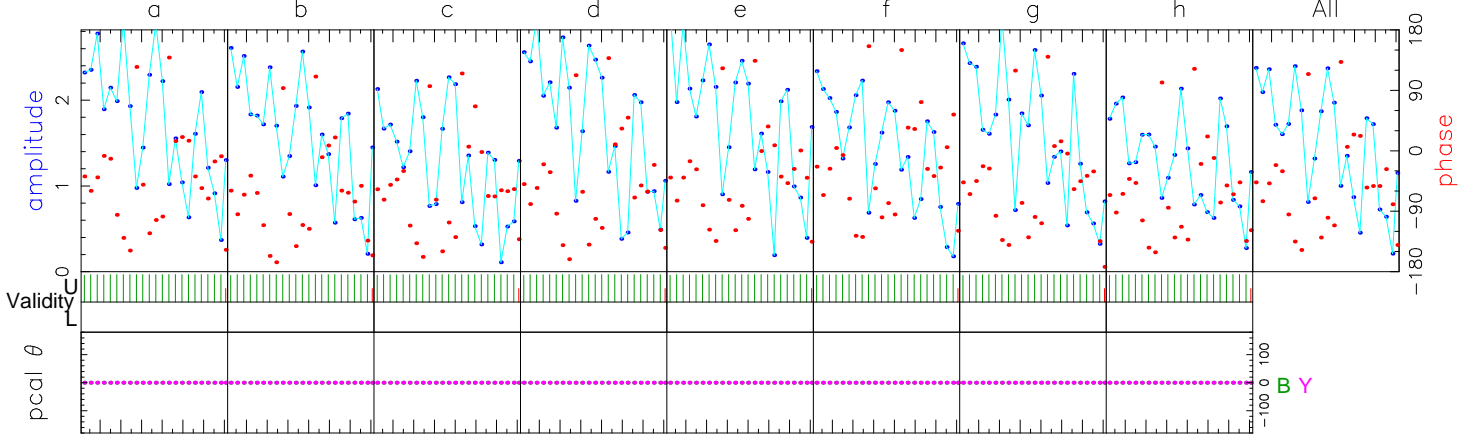


Fringe quality 4

SNR 52.3  
Int time 413.639  
Amp 0.940  
Phase -74.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.004490  
MBD -0.004888  
Fringe rate (Hz) 0.018918  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

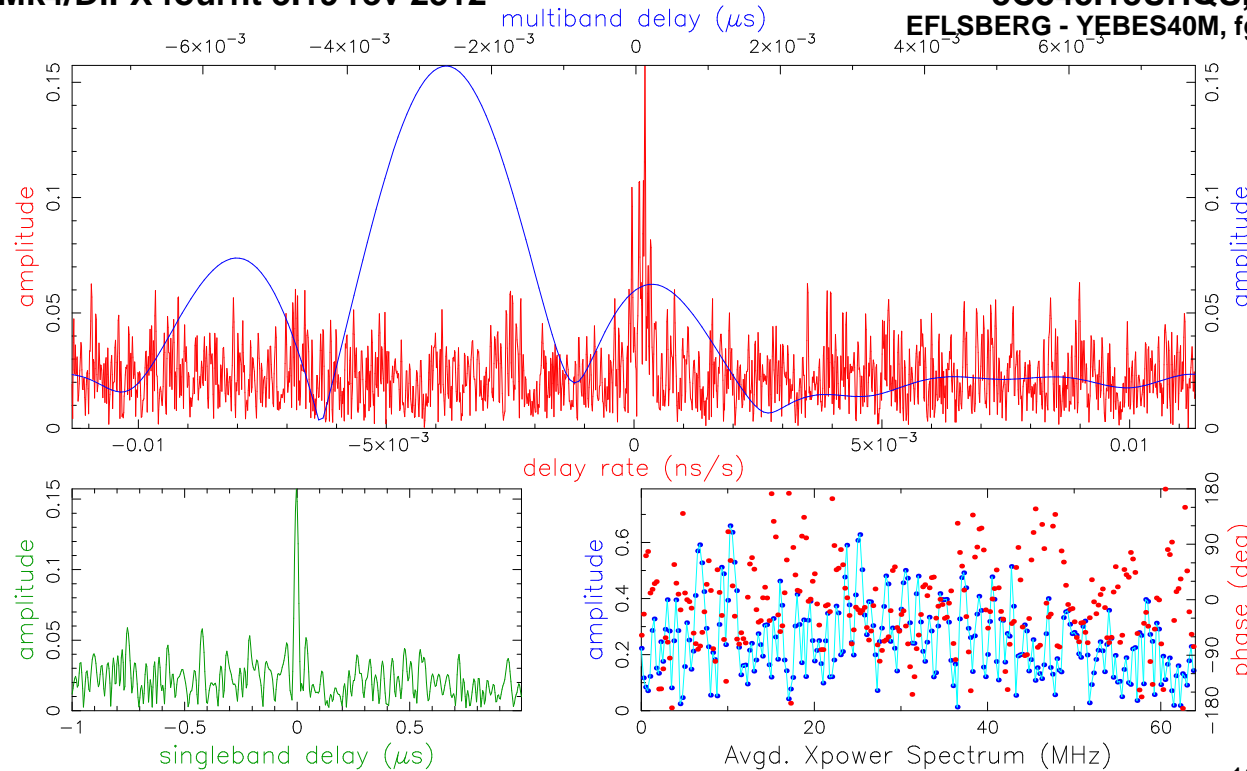
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084105.12  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143534  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-66.2	-86.8	-88.3	-79.9	-63.3	-54.4	-73.3	-86.3	Phase	-74.5
	1.0	1.0	0.8	1.1	1.1	0.8	1.1	0.9	Ampl.	1.0
	255.5	255.3	256.2	255.8	256.1	255.8	255.8	254.5	Sbd box	255.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.91428570053E+01		Apriori delay (usec)		-6.91379695016E+01		Resid mbdelay (usec)		-4.88750E-03	+/- 2.1E-05
Sband delay (usec)	-6.91424597516E+01		Apriori clock (usec)		1.0774221E+00		Resid sbdelay (usec)		-4.49025E-03	+/- 1.6E-04
Phase delay (usec)	-6.91379719026E+01		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-2.40103E-06	+/- 7.1E-08
Delay rate (us/s)	1.63986436922E-01		Apriori rate (us/s)		1.63986217308E-01		Resid rate (us/s)		2.19614E-07	+/- 3.0E-10
Total phase (deg)			Apriori accel (us/s/s)		9.19384429898E-06		Resid phase (deg)		-74.5	+/- 2.2

ph/seg (deg) 68.3 5.3 Search (2048X32) 0.926 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 91.4 9.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.6 3.1 Inc. seg. avg. 1.496 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 13.2 5.4 Inc. frq. avg. 0.955 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 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.37.18UHQS

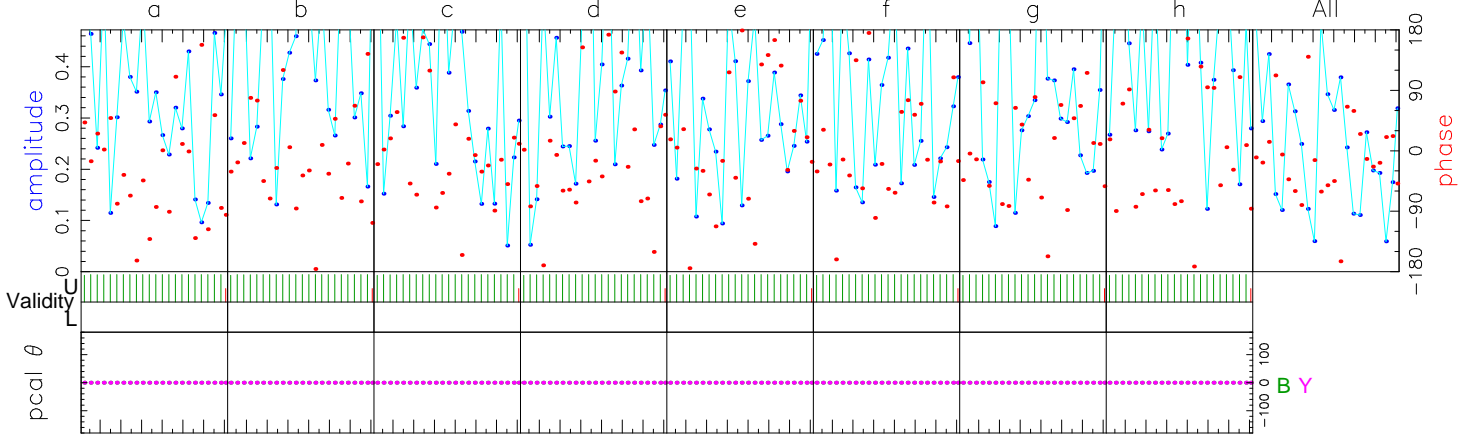


Fringe quality 9

SNR 8.7  
Int time 413.639  
Amp 0.157  
Phase -25.7  
PFD  $8.1 \times 10^{-10}$   
Delays (us)  
SBD -0.003340  
MBD -0.002625  
Fringe rate (Hz) 0.018921  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

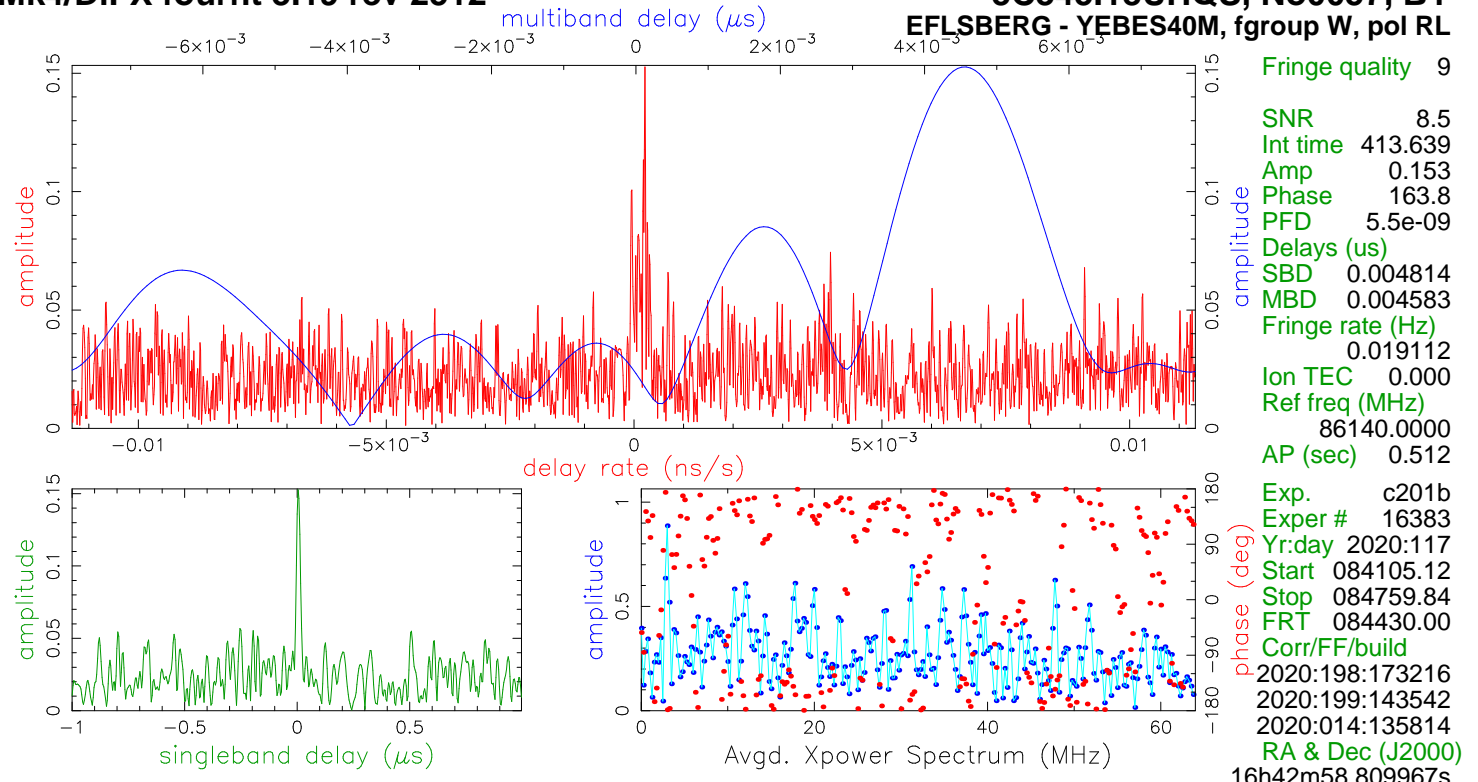
Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084105.12  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143538  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

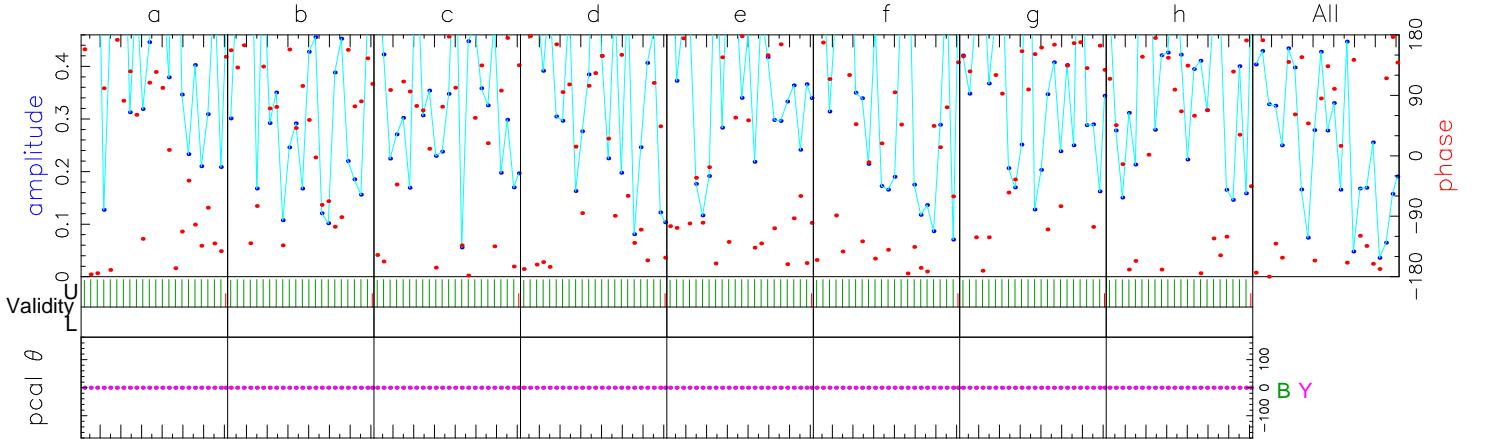


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-30.8	-27.3	-18.9	-31.3	17.6	-16.9	-25.1	-40.8	Phase	-25.7
	0.2	0.3	0.2	0.1	0.0	0.2	0.2	0.1	Ampl.	0.2
	337.3	255.9	324.1	22.1	476.0	255.8	256.3	64.2	Sbd box	256.1
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.91405940991E+01		Apriori delay (usec)		-6.91379695016E+01		Resid mbdelay (usec)		-2.62460E-03	+/- 1.2E-04
Sband delay (usec)	-6.91413100016E+01		Apriori clock (usec)		1.0774221E+00		Resid sbdelay (usec)		-3.34050E-03	+/- 9.8E-04
Phase delay (usec)	-6.91379703291E+01		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-8.27545E-07	+/- 4.2E-07
Delay rate (us/s)	1.63986436967E-01		Apriori rate (us/s)		1.63986217308E-01		Resid rate (us/s)		2.19659E-07	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		9.19384429898E-06		Resid phase (deg)		-25.7	+/- 13.1

ph/seg (deg) 66.0 31.4 Search (2048X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 100.2 54.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 19.5 18.5 Inc. seg. avg. 0.218 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 37.8 32.3 Inc. frq. avg. 0.151 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 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.58.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



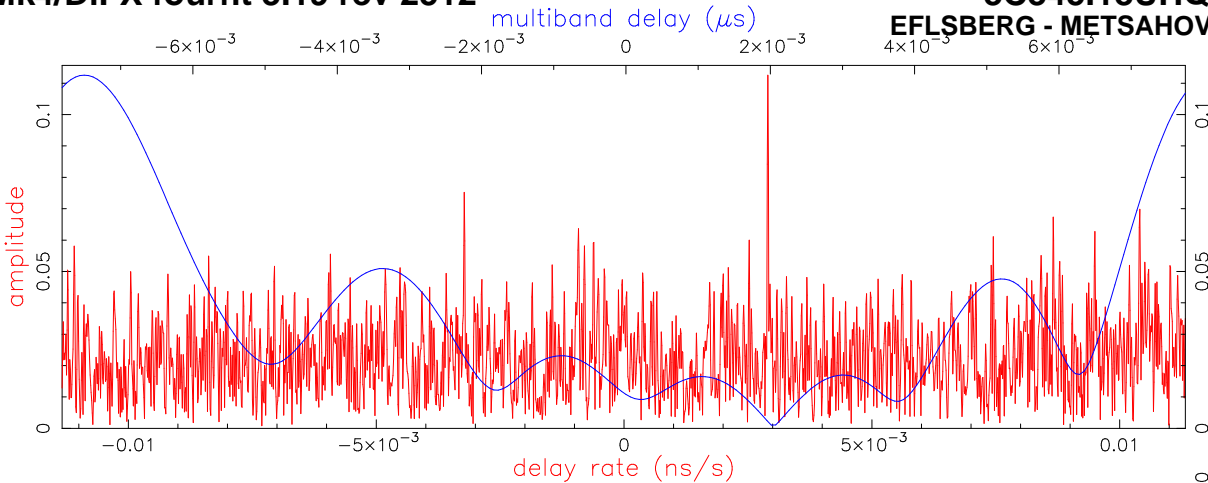
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	169.7	139.0	127.1	172.5	-138.1	162.6	158.3	131.9	Phase	163.8
	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	257.8	266.2	177.1	258.5	259.3	252.4	257.4	454.0	Sbd box	258.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.91333868803E+01	Apriori delay (usec)	-6.91379695016E+01	Resid mbdelay (usec)	4.58262E-03	+/-	1.3E-04
Sband delay (usec)	-6.91331552516E+01	Apriori clock (usec)	1.0774221E+00	Resid sbdelay (usec)	4.81425E-03	+/-	1.0E-03
Phase delay (usec)	-6.91379642185E+01	Apriori clockrate (us/s)	-4.2000000E-07	Resid phdelay (usec)	5.28301E-06	+/-	4.3E-07
Delay rate (us/s)	1.63986439184E-01	Apriori rate (us/s)	1.63986217308E-01	Resid rate (us/s)	2.21876E-07	+/-	1.8E-09
Total phase (deg)	-85.6	Apriori accel (us/s/s)	9.19384429898E-06	Resid phase (deg)	163.8	+/-	13.4

ph/seg (deg)	RMS 60.9	Theor. 32.2	Amplitude Search (2048X32)	0.153 +/- 0.018	0.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	108.3	56.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	32.9	19.0	Inc. seg. avg.	0.220	0.220	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.8	33.2	Inc. frq. avg.	0.164	0.164	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

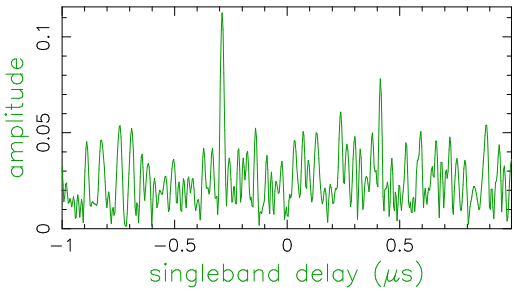
B: az 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.77.18UHQS

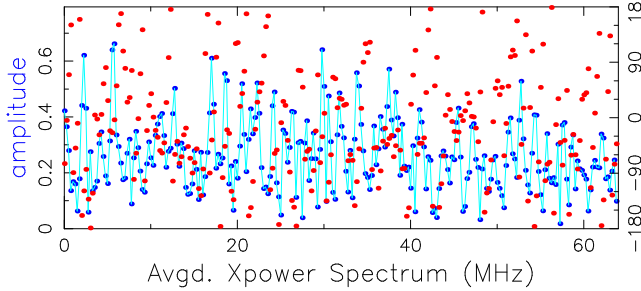


Fringe quality 0

SNR 6.3  
Int time 419.426  
Amp 0.116  
Phase 140.3  
PFD 7.5e-02  
Delays (us)  
SBD -0.289008  
MBD 0.008121  
Fringe rate (Hz)  
0.250308  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

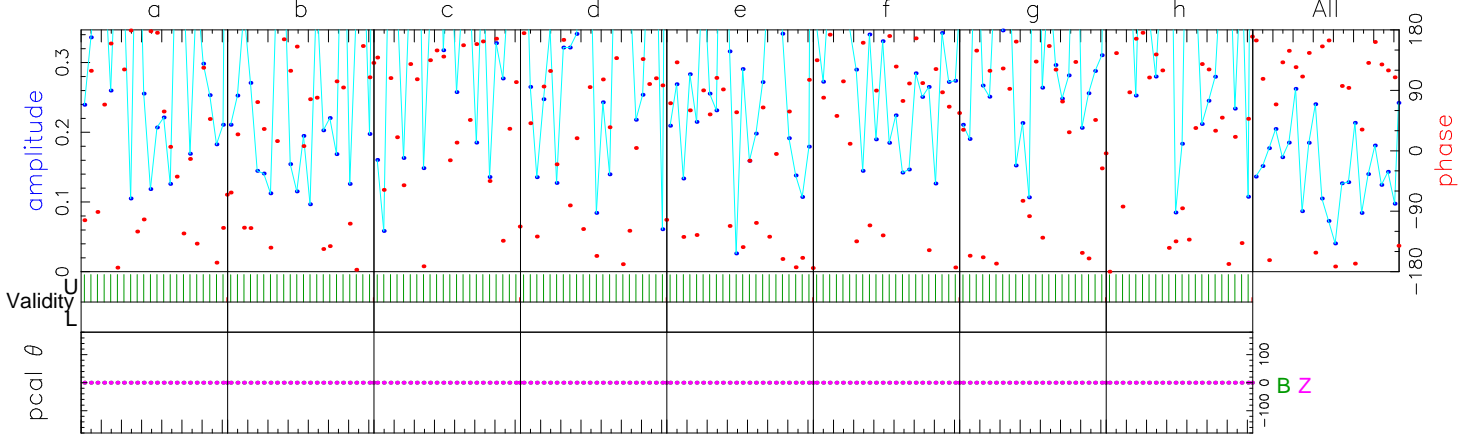


delay rate (ns/s)



Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143530  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



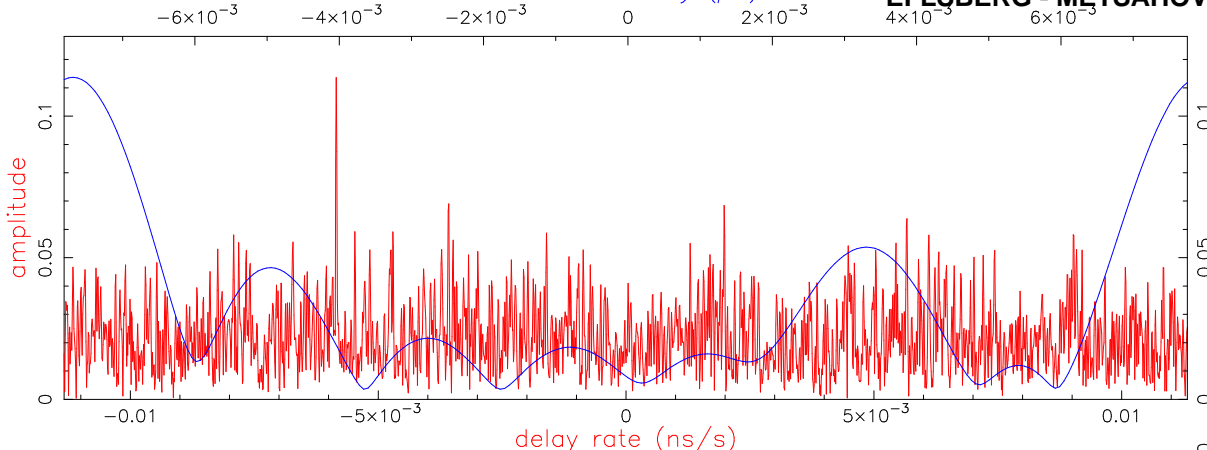
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-148.6	134.1	115.5	138.1	112.5	127.8	139.8	164.1	Phase	140.3
	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	262.6	206.2	183.4	78.3	282.8	185.1	183.2	361.2	Sbd box	183.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.57008569688E+02	Apriori delay (usec)	5.57297324063E+02	Resid mbdelay (usec)	8.12063E-03	+/-	1.7E-04
Sband delay (usec)	5.57008316063E+02	Apriori clock (usec)	1.3167874E+01	Resid sbdelay (usec)	-2.89008E-01	+/-	1.4E-03
Phase delay (usec)	5.57297328588E+02	Apriori clockrate (us/s)	-2.1600000E-07	Resid phdelay (usec)	4.52519E-06	+/-	5.9E-07
Delay rate (us/s)	-2.26046914496E-01	Apriori rate (us/s)	-2.26049820323E-01	Resid rate (us/s)	2.90583E-06	+/-	2.4E-09
Total phase (deg)	318.4	Apriori accel (us/s/s)	-9.84012287695E-06	Resid phase (deg)	140.3	+/-	18.2

ph/seg (deg)	42.9	RMS	43.6	Theor.	43.6	Amplitude	0.116 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	58.2	Search (2048X32)	0.105	Search	0.105	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	34.7	Inc. seg. avg.	0.118	Inc. seg. avg.	0.118	Inc. frq. avg.	0.117	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	37.7	Inc. frq. avg.	0.117	Inc. frq. avg.	0.117	Inc. frq. avg.	0.117	Sample rate(MISamp/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

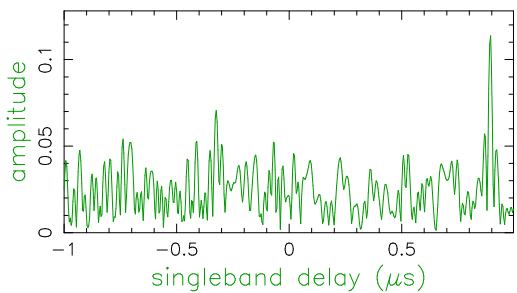
B: az 304.4 el 23.7 pa 42.9 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) 1661.163 -1323.617 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201b/v1/1234/No0057/BZ..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BZ.W.22.18UHQS

multiband delay ( $\mu$ s)

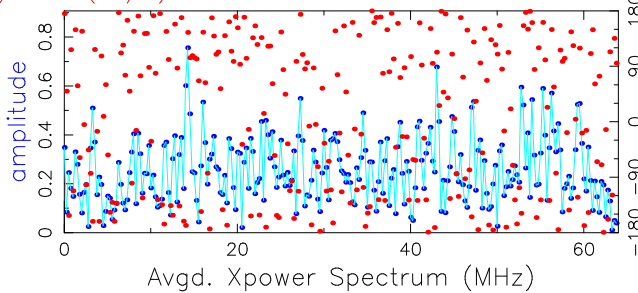


Fringe quality 0

SNR 6.4  
 Int time 419.426  
 Amp 0.128  
 Phase 101.8  
 PFD 3.8e-02  
 Delays (us)  
 SBD 0.893425  
 MBD -0.007712  
 Fringe rate (Hz)  
 -0.504469  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

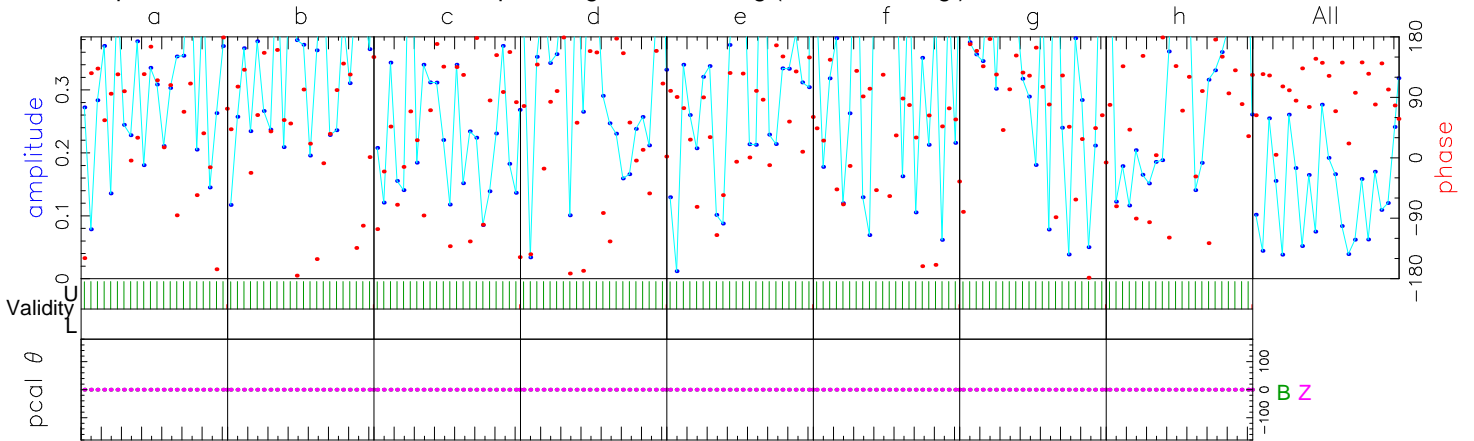


delay rate (ns/s)



Exp. c201b  
 Exper # 16383  
 Yr:day 2020:117  
 Start 084100.00  
 Stop 084759.84  
 FRT 084430.00  
 Corr/FF/build  
 2020:198:173216  
 2020:199:143534  
 2020:014:135814  
 RA & Dec (J2000)  
 16h42m58.809967s  
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

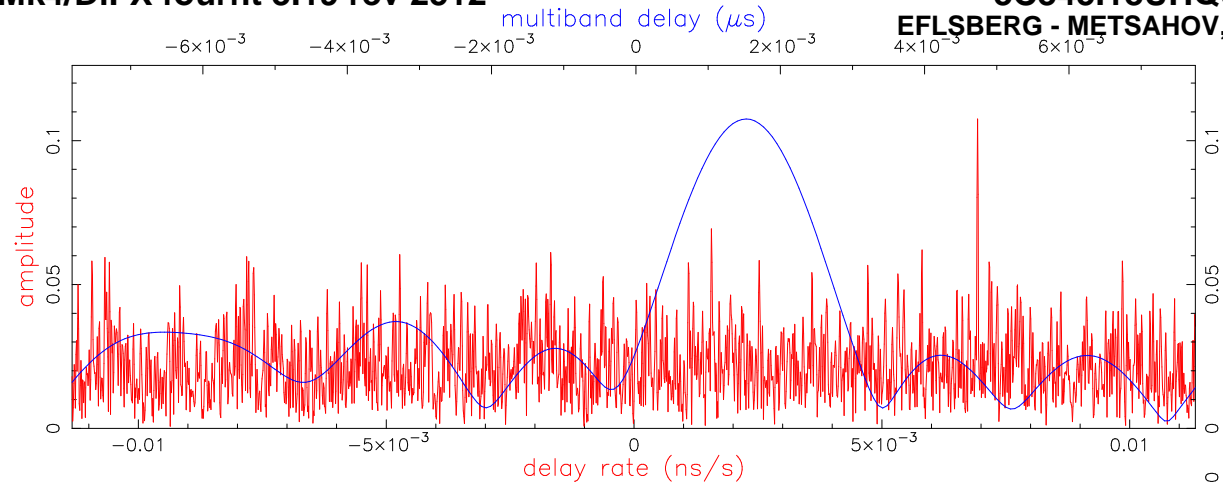


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec)(sbd)	5.58195861786E+02	Apriori delay (usec)		5.57297324063E+02	Resid mbdelay (usec)		-7.71228E-03	+/- 1.7E-04	
Sband delay (usec)	5.58190749313E+02	Apriori clock (usec)		1.3167874E+01	Resid sbdelay (usec)		8.93425E-01	+/- 1.3E-03	
Phase delay (usec)	5.57297327346E+02	Apriori clockrate (us/s)		-2.1600000E-07	Resid phdelay (usec)		3.28317E-06	+/- 5.8E-07	
Delay rate (us/s)	-2.26055676711E-01	Apriori rate (us/s)		-2.26049820323E-01	Resid rate (us/s)		-5.85639E-06	+/- 2.4E-09	
Total phase (deg)	279.9		Apriori accel (us/s/s)		-9.84012287695E-06	Resid phase (deg)		101.8	+/- 17.9

ph/seg (deg)	38.0	Theor. 42.8	Amplitude	0.128 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.5	74.8	Search (2048X32)	0.112	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	24.1	25.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	24.3	44.1	Inc. seg. avg.	0.121	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.123	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

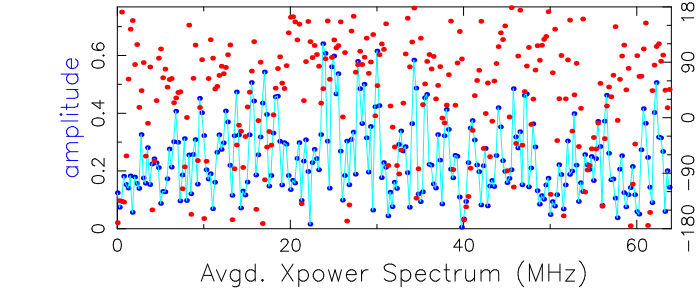
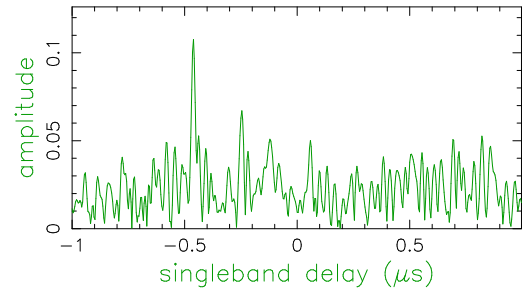




Fringe quality 0

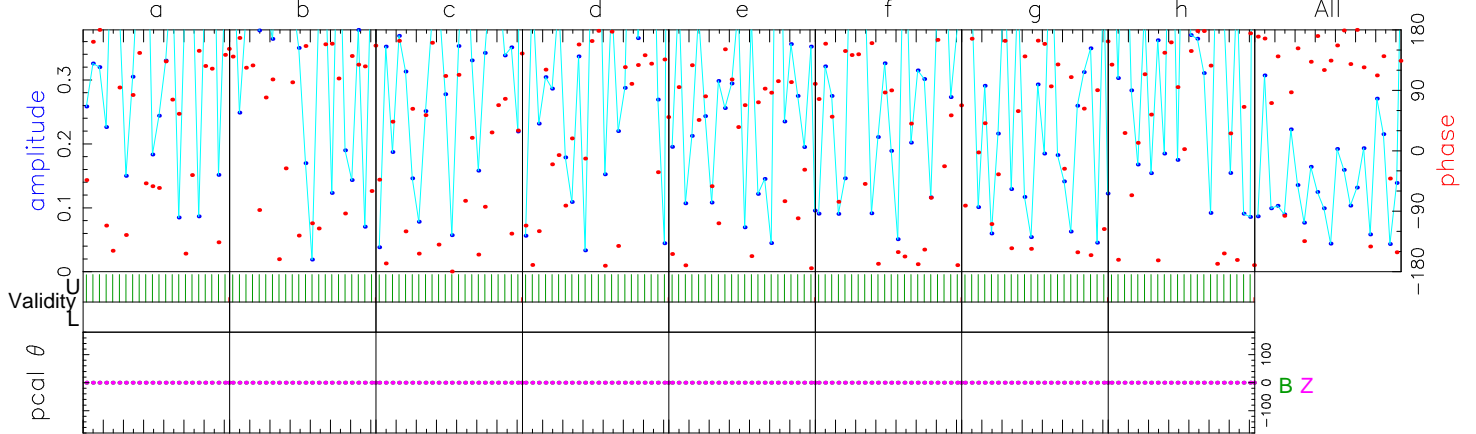
SNR 6.0  
Int time 419.426  
Amp 0.126  
Phase 147.7  
PFD 3.5e-01  
Delays (us)  
SBD -0.461295  
MBD 0.001518  
Fringe rate (Hz) 0.597557  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201b  
Exper # 16383  
Yr:day 2020:117  
Start 084100.00  
Stop 084759.84  
FRT 084430.00  
Corr/FF/build  
2020:198:173216  
2020:199:143538  
2020:014:135814  
RA & Dec (J2000)  
16h42m58.809967s  
+39°48'36.993984"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



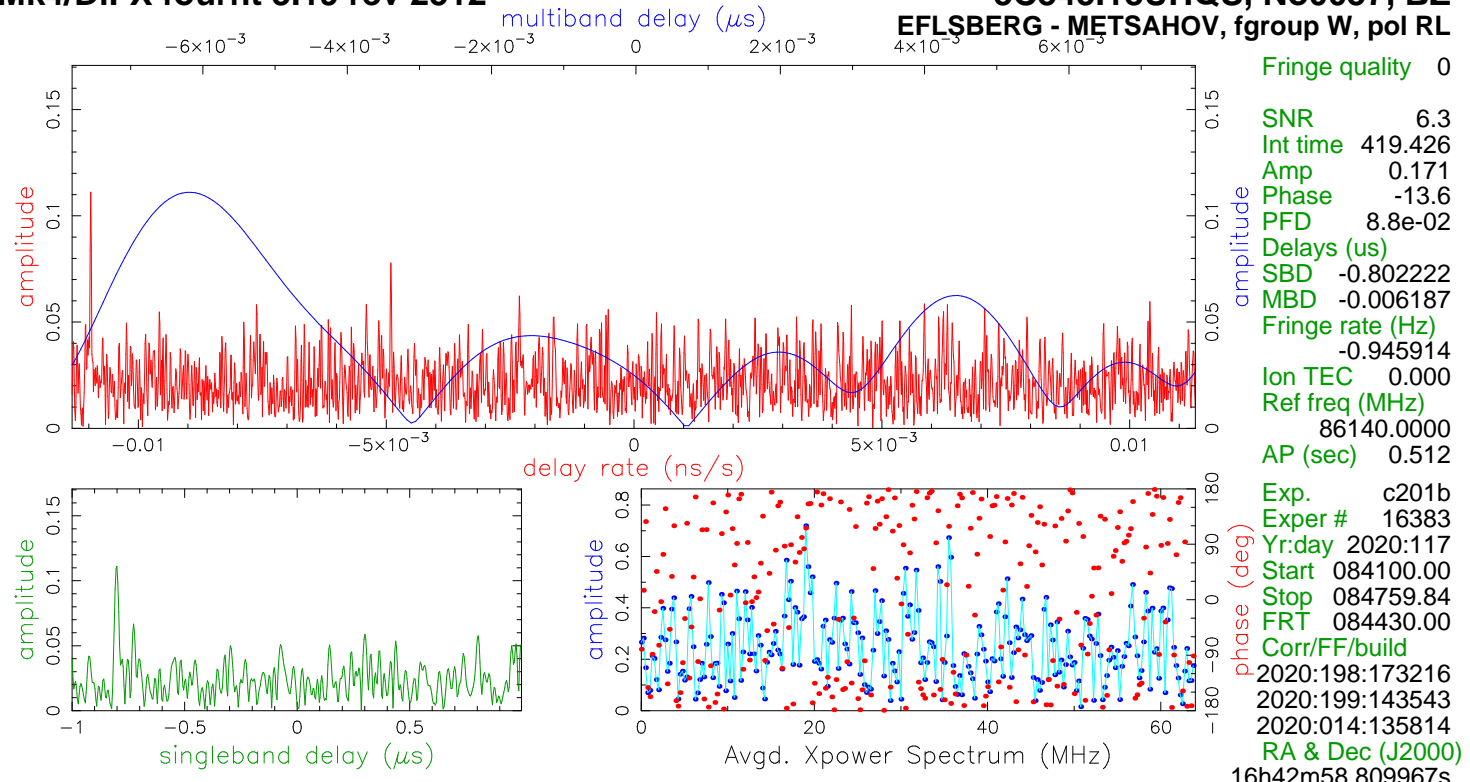
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	5.56830092095E+02	Apriori delay (usec)		5.57297324063E+02	Resid mbdelay (usec)		1.51803E-03	+/-	1.8E-04
Sband delay (usec)	5.56836028563E+02	Apriori clock (usec)		1.3167874E+01	Resid sbdelay (usec)		-4.61295E-01	+/-	1.4E-03
Phase delay (usec)	5.57297328827E+02	Apriori clockrate (us/s)		-2.1600000E-07	Resid phdelay (usec)		4.76387E-06	+/-	6.1E-07
Delay rate (us/s)	-2.26042883280E-01	Apriori rate (us/s)		-2.26049820323E-01	Resid rate (us/s)		6.93704E-06	+/-	2.5E-09
Total phase (deg)	325.8	Apriori accel (us/s/s)		-9.84012287695E-06	Resid phase (deg)		147.7	+/-	19.0

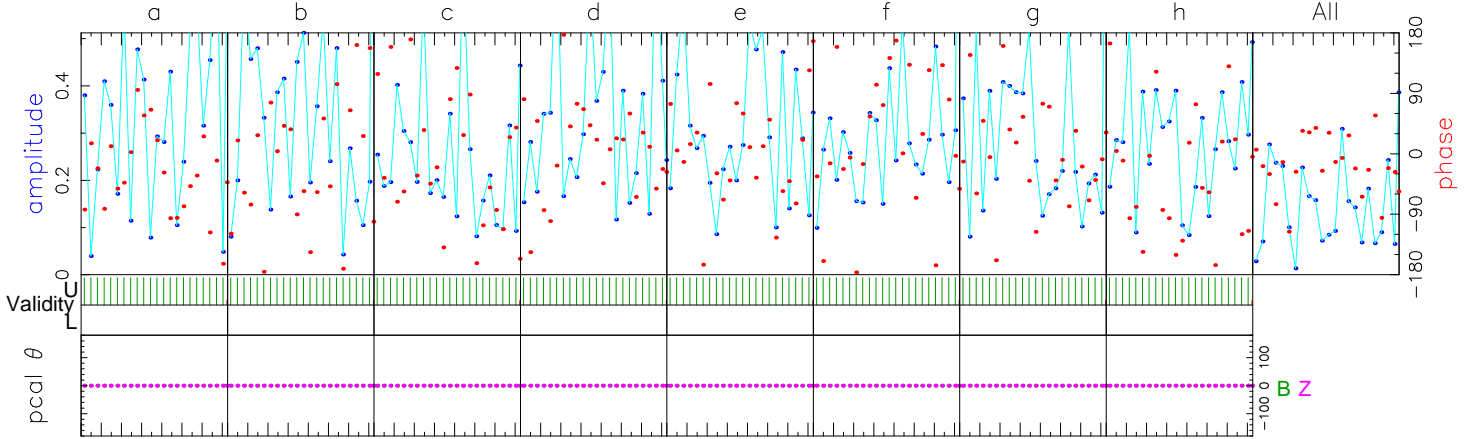
ph/seg (deg)	57.7	Theor.	45.6	Amplitude	0.126 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	75.6	Search (2048X32)	0.101	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	16.7	Inc. seg. avg.	0.126	Inc. frq. avg.	0.117	Bits/sample: 2x2	mb window (us)	-0.008 0.008
amp/frq (%)	35.2	Inc. frq. avg.	0.117			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00

B: az 304.4 el 23.7 pa 42.9      Z: az 313.1 el 22.0 pa 29.0      u,v (fr/asec) 1661.163 -1323.617      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/c201b/v1/1234/No0057/BZ..18UHQS    Output file: /Exps/c201b/v1/1234/No0057/BZ.W.59.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-32.5	-17.3	6.7	-2.3	-2.8	73.5	-14.4	-91.6	Phase	-13.6
	0.3	0.1	0.1	0.3	0.3	0.1	0.2	0.1	Ampl.	0.2
	51.1	478.1	311.1	51.4	51.8	167.5	51.0	509.1	Sbd box	51.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.56494261957E+02		Apriori delay (usec)		5.57297324063E+02		Resid mbdelay (usec)		-6.18711E-03	+/- 1.7E-04
Sband delay (usec)	5.56495102063E+02		Apriori clock (usec)		1.3167874E+01		Resid sbdelay (usec)		-8.02222E-01	+/- 1.4E-03
Phase delay (usec)	5.57297323625E+02		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-4.38036E-07	+/- 5.9E-07
Delay rate (us/s)	-2.26060801447E-01		Apriori rate (us/s)		-2.26049820323E-01		Resid rate (us/s)		-1.09811E-05	+/- 2.4E-09
Total phase (deg)	164.5		Apriori accel (us/s/s)		-9.84012287695E-06		Resid phase (deg)		-13.6	+/- 18.3

	RMS	Theor.	Amplitude	0.171 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.0	43.8	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	80.0	76.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	49.5	25.8	Inc. seg. avg.	0.167	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.4	45.0	Inc. frq. avg.	0.178	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 304.4 el 23.7 pa 42.9      Z: az 313.1 el 22.0 pa 29.0      u,v (fr/asec) 1661.163 -1323.617      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/c201b/v1/1234/No0057/BZ..18UHQS    Output file: /Exps/c201b/v1/1234/No0057/BZ.W.80.18UHQS