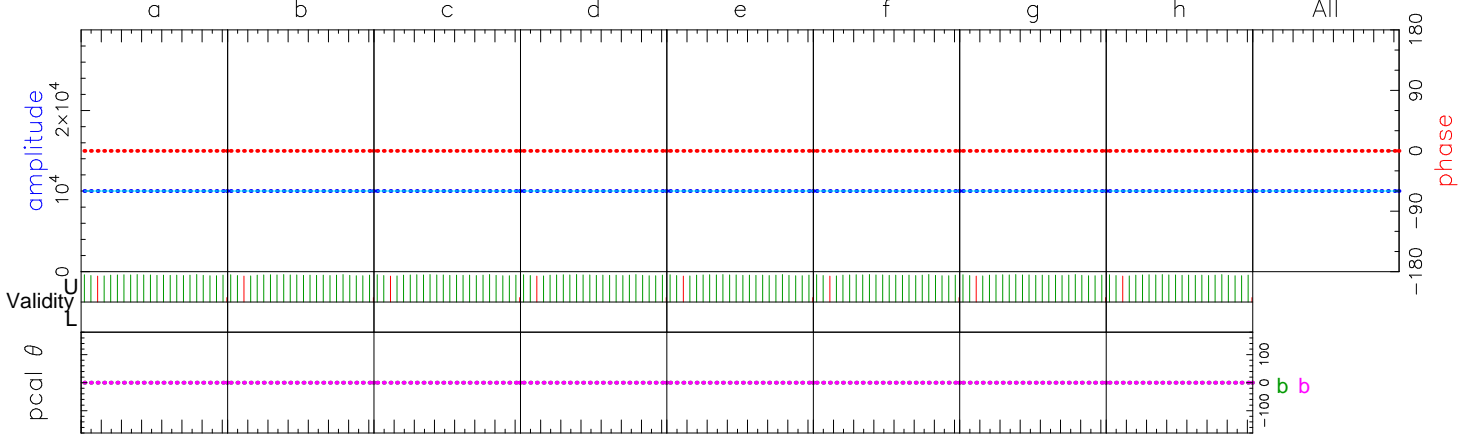


Fringe quality 9

SNR 553455.9
Int time 409.611
Amp 9999.989
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



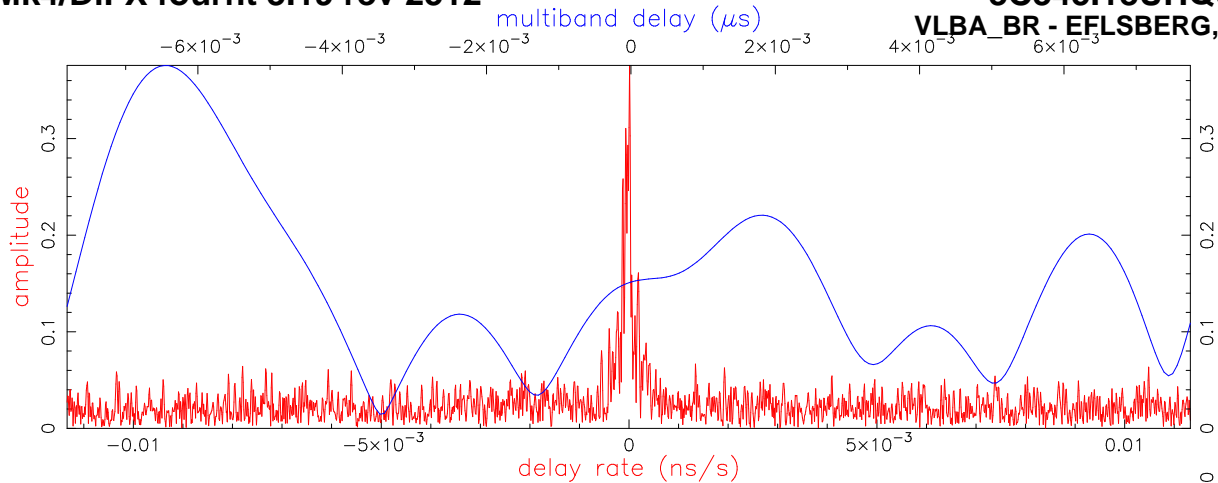
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.6E-08
Phase delay (usec)	-5.52833123759E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.52833E-20	+/-	6.7E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.8E-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	RMS	Theor.	Amplitude	9999.989 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	9999.989	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9999.989	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

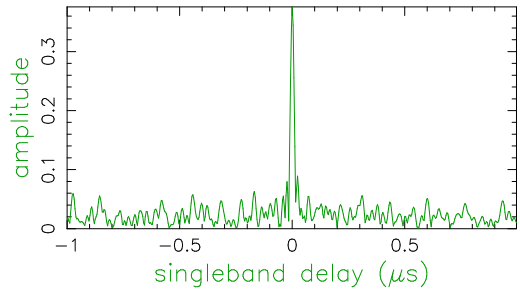
b: az 104.8 el 69.8 pa -57.1 b: az 104.8 el 69.8 pa -57.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bb..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bb.W.1.18UHQS

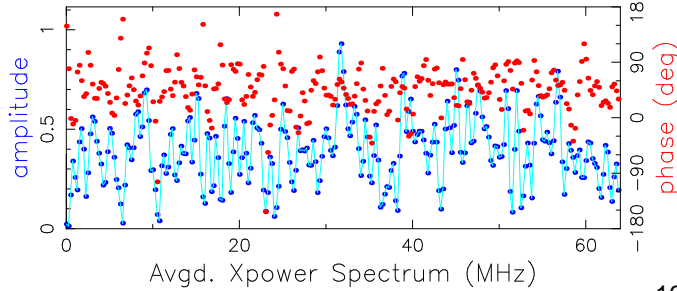


Fringe quality 8

SNR 20.8
 Int time 409.603
 Amp 0.376
 Phase 123.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.000213
 MBD -0.006438
 Fringe rate (Hz) 0.000679
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

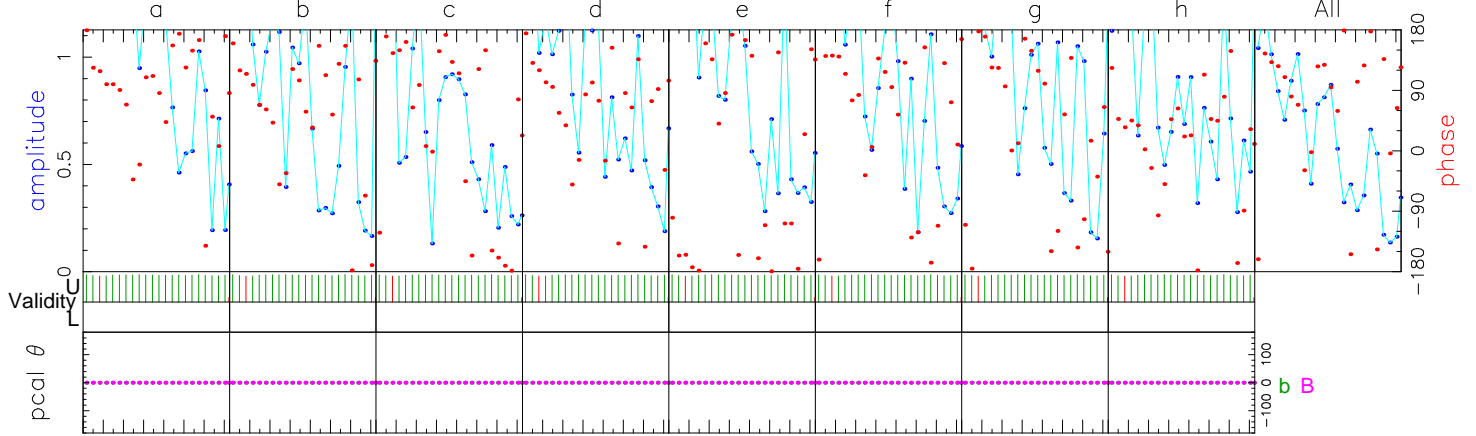


delay rate (ns/s)



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

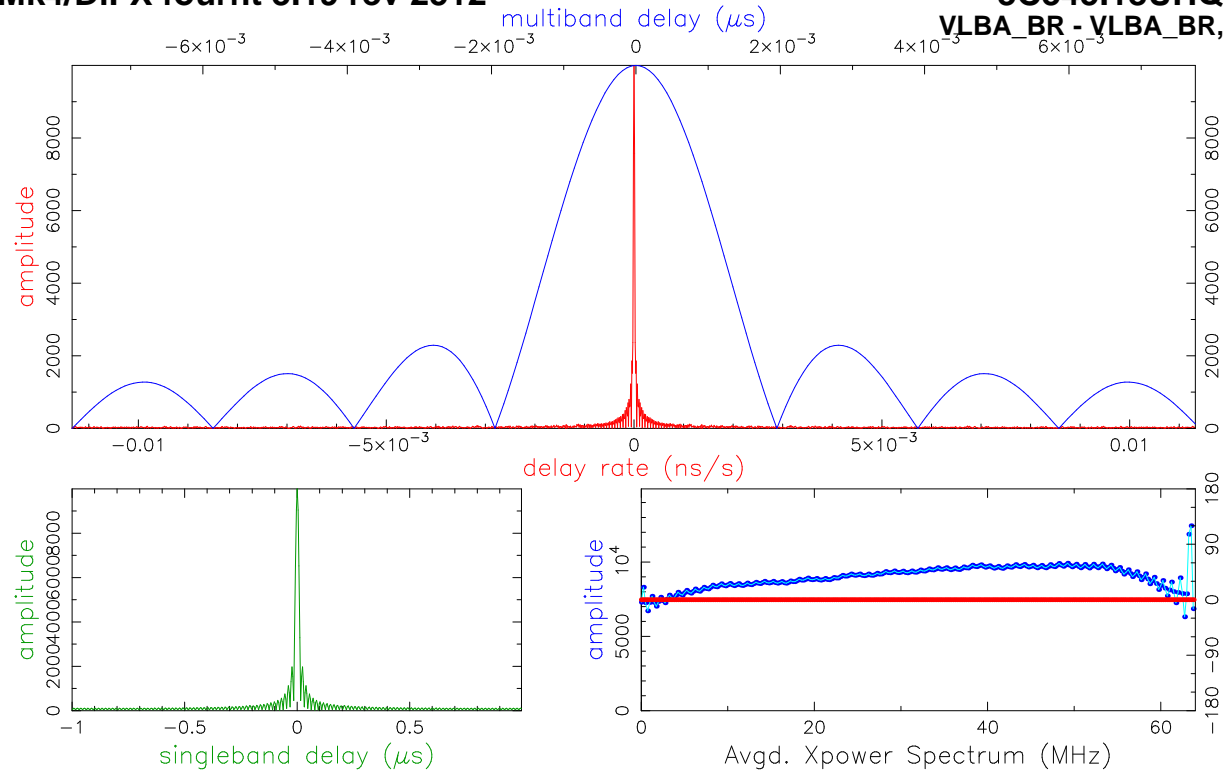
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	108.7	106.0	151.8	97.8	-172.6	126.4	161.9	41.2	Phase	123.2
	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.5	Ampl.	0.5
	257.3	257.0	256.5	257.0	256.7	256.2	255.8	256.1	Sbd box	257.1
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.17000467842E+04		Apriori delay (usec)		1.17000532226E+04		Resid mbdelay (usec)		-6.43840E-03	+/- 5.2E-05
Sband delay (usec)	1.17000534353E+04		Apriori clock (usec)		-1.4457963E+01		Resid sbdelay (usec)		2.12750E-04	+/- 4.1E-04
Phase delay (usec)	1.17000532266E+04		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		3.97198E-06	+/- 1.8E-07
Delay rate (us/s)	1.07610728591E+00		Apriori rate (us/s)		1.07610727803E+00		Resid rate (us/s)		7.88412E-09	+/- 7.3E-10
Total phase (deg)	336.7		Apriori accel (us/s/s)		-6.42614375700E-05		Resid phase (deg)		123.2	+/- 5.5

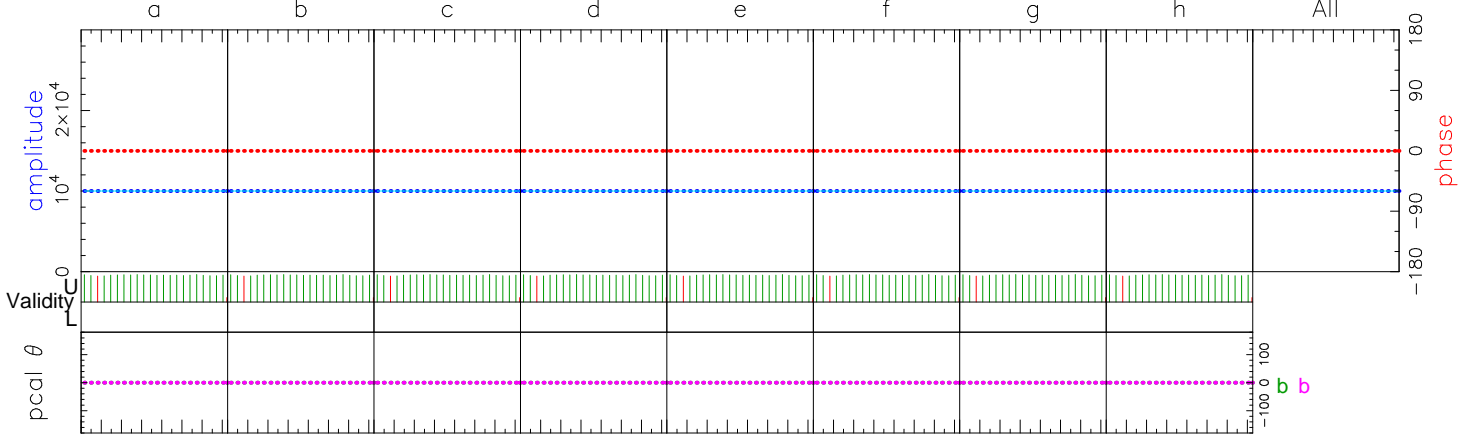
	RMS	Theor.	Amplitude	0.376 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	66.1	13.2	Search (2048X32)	0.368	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	108.0	23.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	48.9	7.8	Inc. seg. avg.	0.619	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	38.2	13.6	Inc. frq. avg.	0.494	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..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bB.W.17.18UHQS



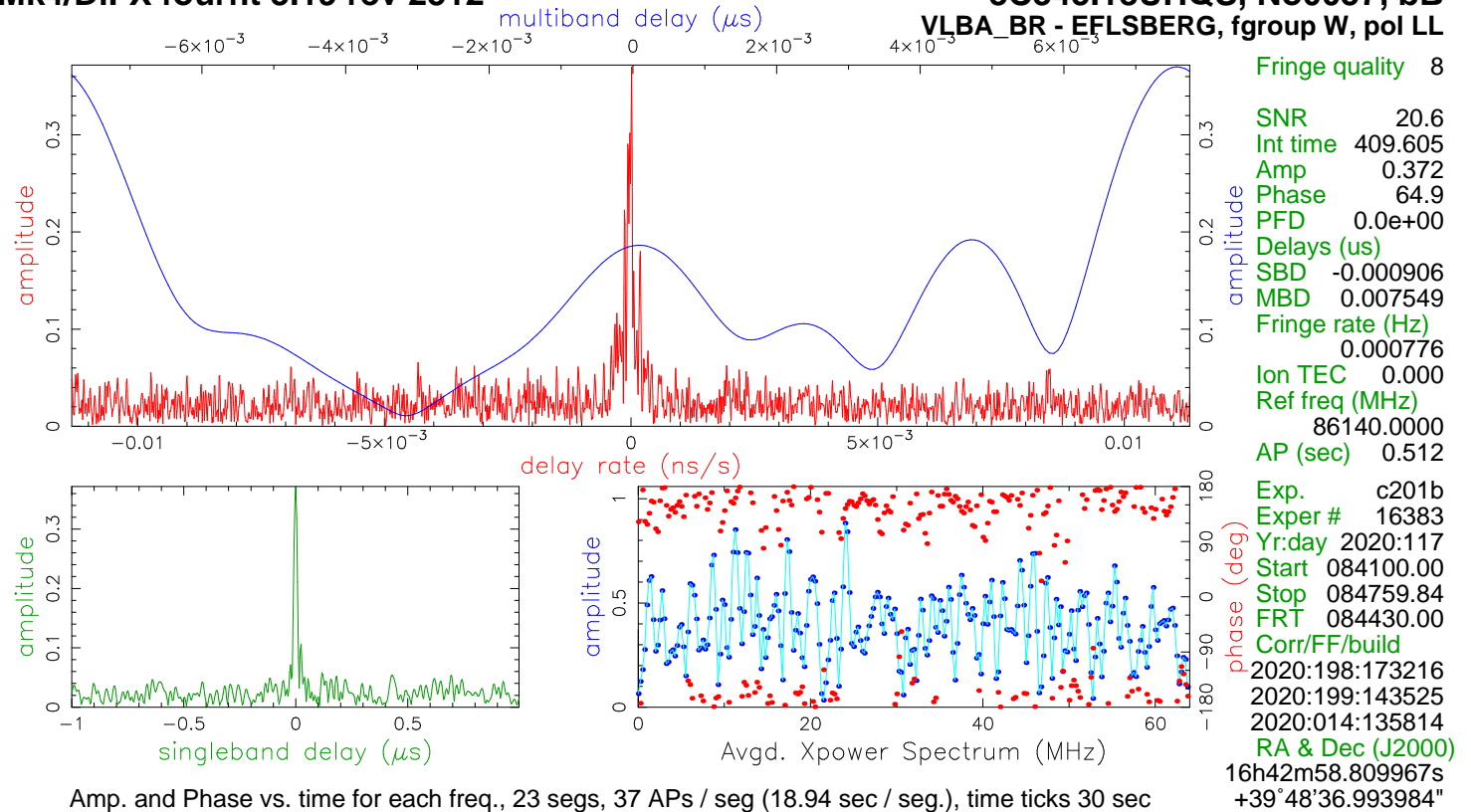
Fringe quality 9
 SNR 553455.1
 Int time 409.610
 Amp 9999.990
 Phase -0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143530
 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

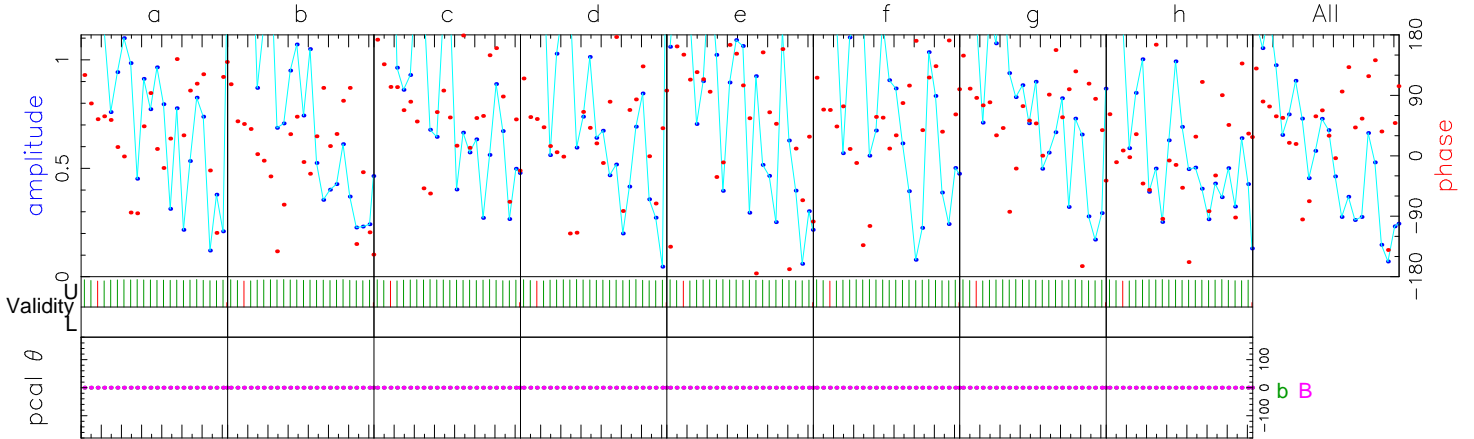


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.0E-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	+/- 1.6E-08
Phase delay (usec)	-1.30004180054E-20	-1.30004180054E-20	-1.30004180054E-20	-1.30004180054E-20	-1.30004180054E-20	-1.30004180054E-20	-1.30004180054E-20	-1.30004180054E-20	-1.30004E-20	+/- 6.7E-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	+/- 2.8E-14
Total phase (deg)			-0.0						-0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.990 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.991 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. 9999.990 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 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

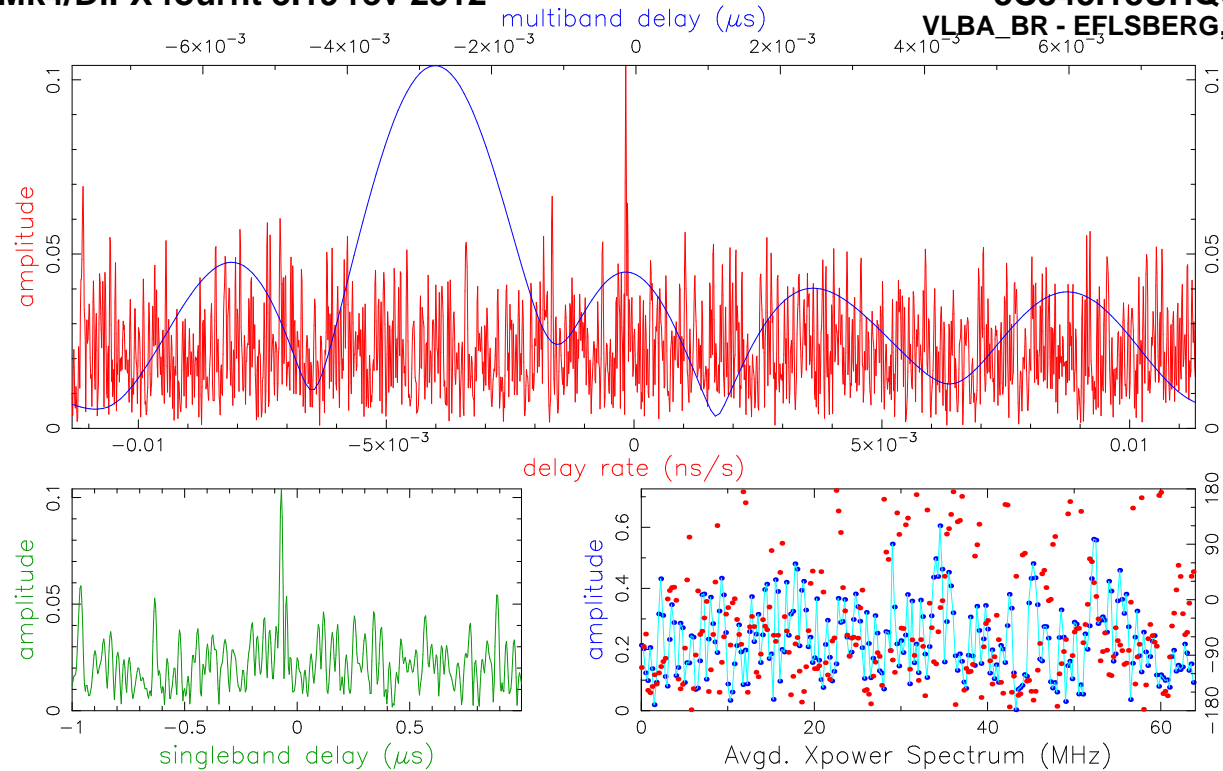


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



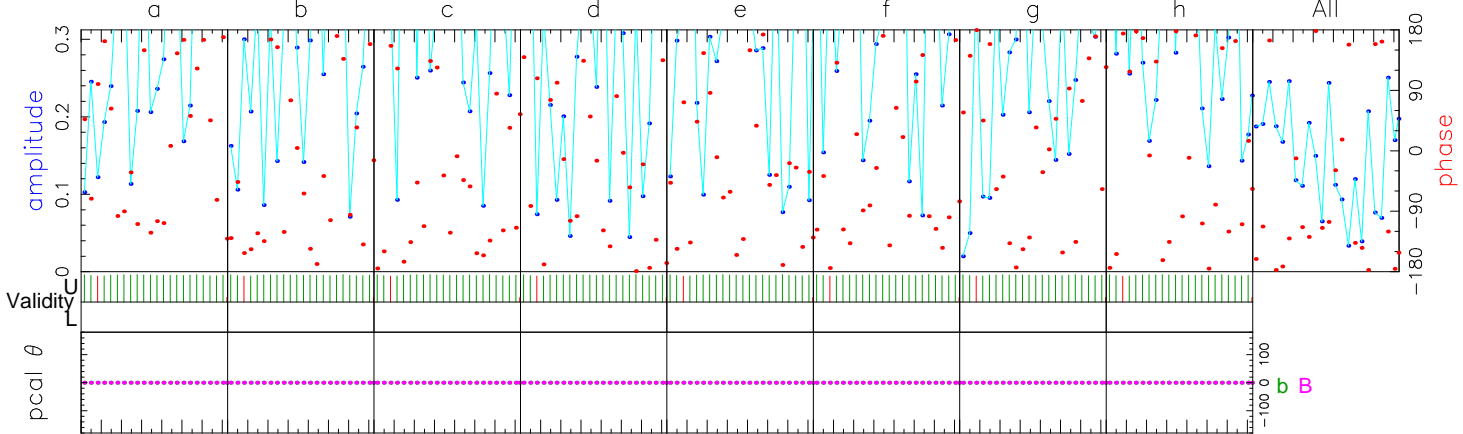
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All						
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0								
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used							
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs							
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks							
Group delay (usec)(sbd)										1.17000451469E+04	Apriori delay (usec)	1.17000532226E+04	Resid mbdelay (usec)	7.54932E-03	+/-	5.3E-05
Sband delay (usec)										1.17000523168E+04	Apriori clock (usec)	-1.4457963E+01	Resid sbdelay (usec)	-9.05750E-04	+/-	4.2E-04
Phase delay (usec)										1.17000532247E+04	Apriori clockrate (us/s)	1.5800000E-07	Resid phdelay (usec)	2.09133E-06	+/-	1.8E-07
Delay rate (us/s)										1.07610728704E+00	Apriori rate (us/s)	1.07610727803E+00	Resid rate (us/s)	9.1073E-09	+/-	7.4E-10
Total phase (deg)										278.4	Apriori accel (us/s/s)	-6.42614375700E-05	Resid phase (deg)	64.9	+/-	5.6

ph/seg (deg) 66.7 13.4 Amplitude 0.372 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 105.6 23.3 Search (2048X32) 0.358 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.4 7.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.8 13.7 Inc. seg. avg. 0.582 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.449 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



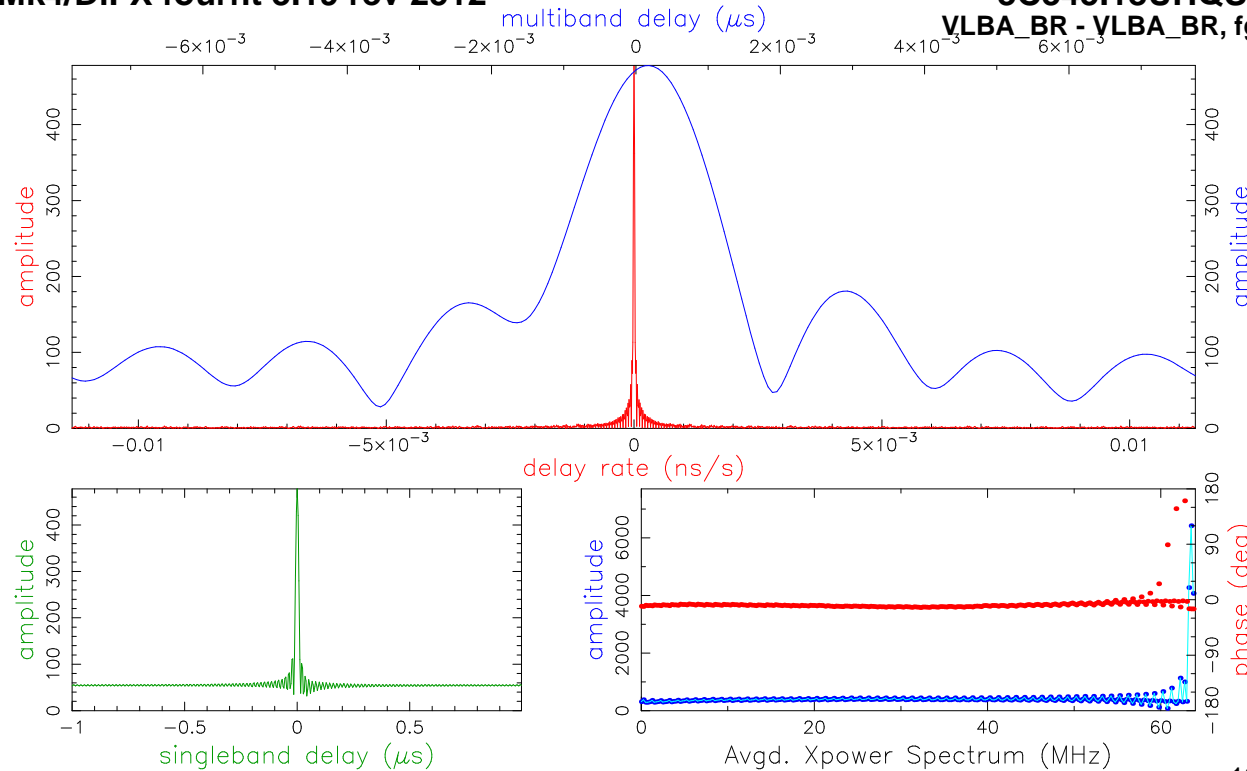
Fringe quality 0
SNR 5.8
Int time 409.605
Amp 0.104
Phase -146.3
PFD 8.7e-01
Delays (us)
SBD -0.070609
MBD -0.002794
Fringe rate (Hz)
-0.014314
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143534
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
	-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	
									Chan ids	
									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

ph/seg (deg) 60.4 47.7 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.8 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.5 28.1 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 48.5 49.1 Inc. frq. avg. 0.099 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 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

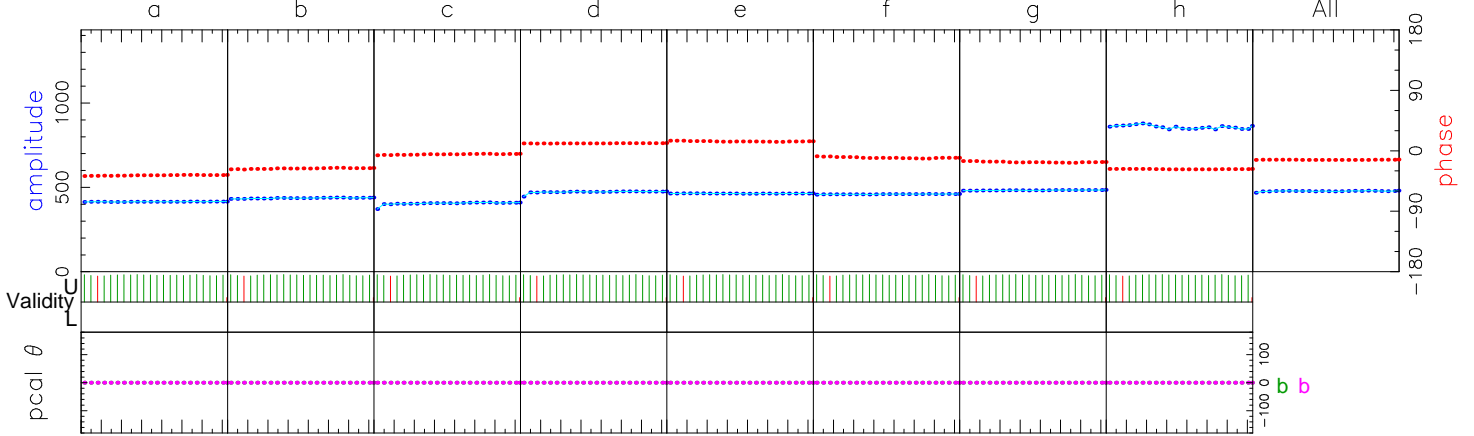


Fringe quality 7

SNR 26454.9
Int time 409.611
Amp 477.993
Phase -13.4
PFD 0.0e+00
Delays (us)
SBD -0.000166
MBD 0.000167
Fringe rate (Hz) -0.000001
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

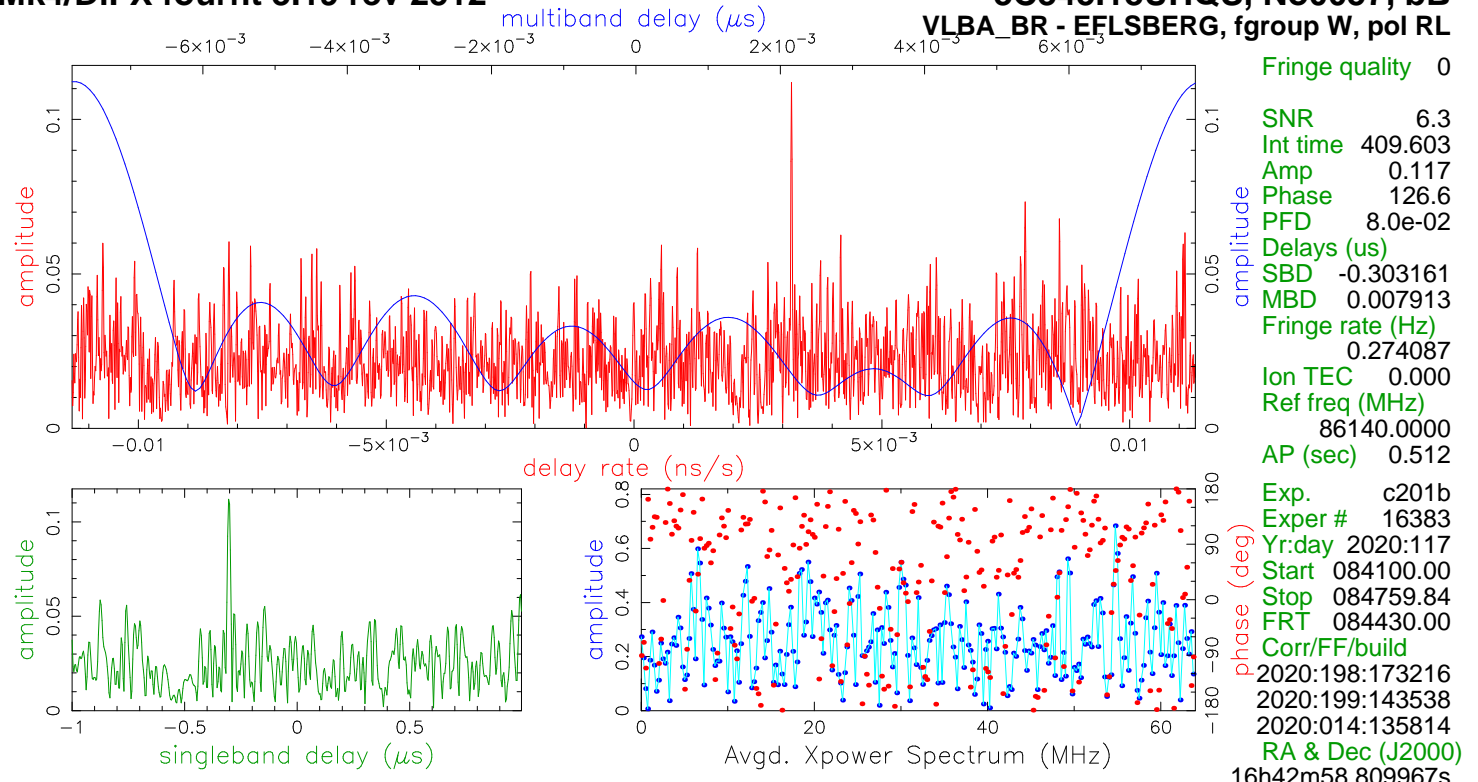
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143537
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

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

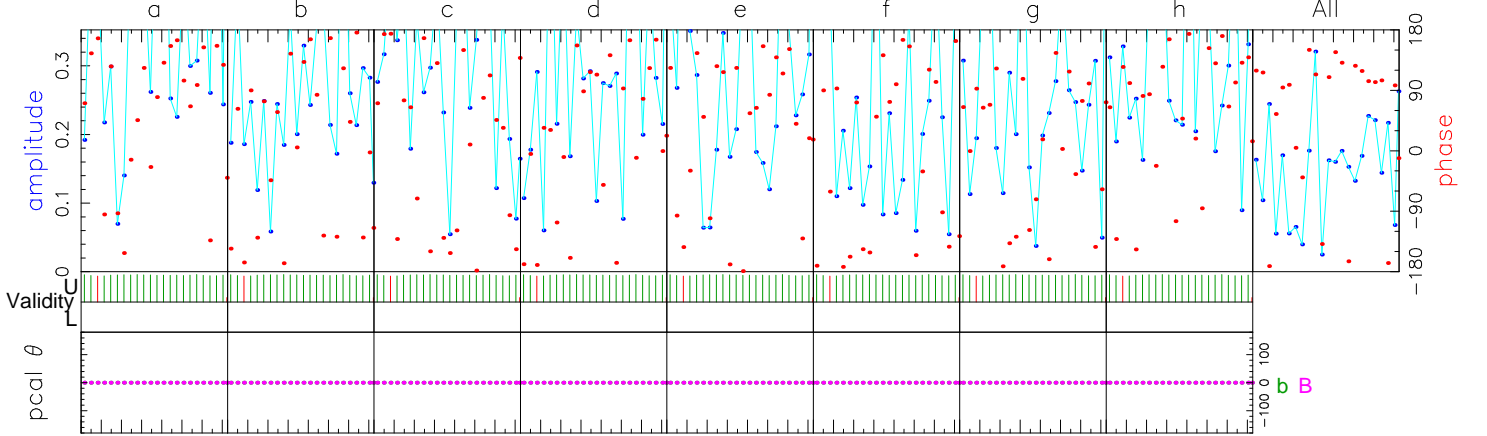


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.6	-26.4	-5.3	11.1	14.0	-10.2	-16.8	-27.3	Phase	-13.4
	414.7	436.4	405.0	472.6	463.8	459.7	482.8	857.9	Ampl.	499.1
	257.0	257.1	257.3	257.2	256.9	256.9	257.0	257.0	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.67312500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		1.67312E-04	+/- 4.1E-08
Sband delay (usec)	-1.66000000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.66000E-04	+/- 3.3E-07
Phase delay (usec)	-4.33417117598E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.33417E-07	+/- 1.4E-10
Delay rate (us/s)	-9.91980667418E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-9.91981E-12	+/- 5.8E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-13.4	+/- 0.0

ph/seg (deg) 0.1 0.0 Search (2048X32) 471.880 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 0.5 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 19.7 0.0 Inc. seg. avg. 477.896 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 29.2 0.0 Inc. frq. avg. 499.112 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 104.8 el 69.8 pa -57.1 b: az 104.8 el 69.8 pa -57.1 u,v (fr/asec) 0.000 0.000 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

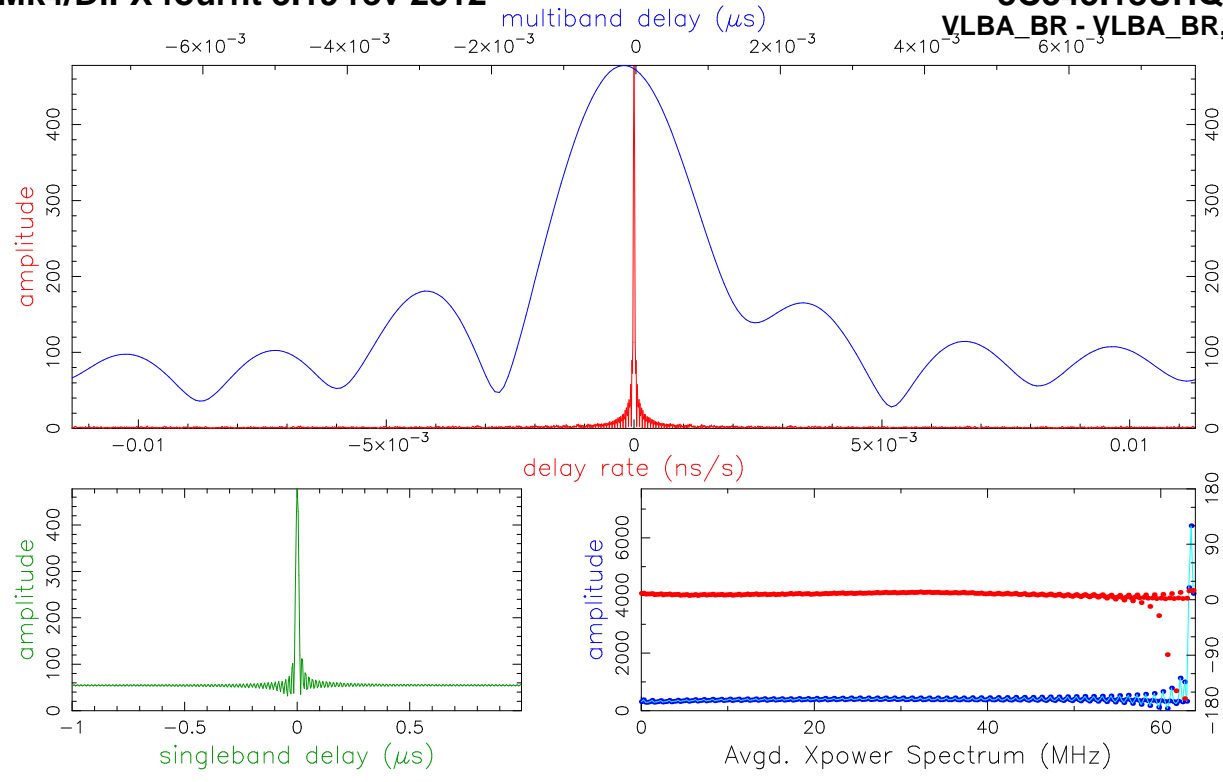


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
125.2	131.3	147.5	105.6	134.2	138.7	93.6	123.9	123.9	Phase	126.6
0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
179.4	223.5	191.4	506.0	105.6	106.5	207.6	176.9	176.9	Sbd box	179.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	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	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	
									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

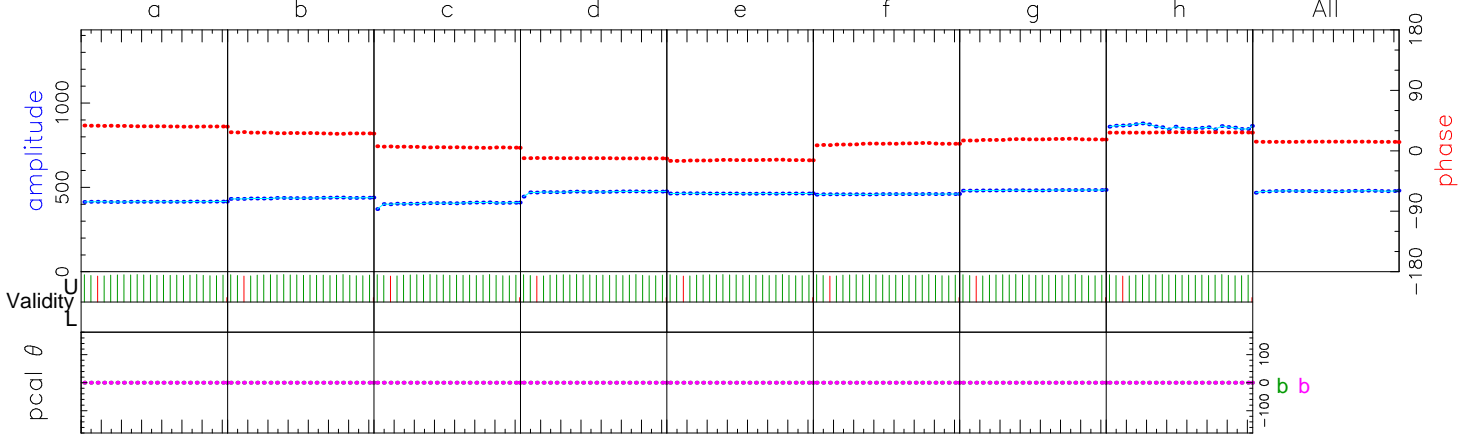
b: az 104.8 el 69.8 pa -57.1 B: az 304.4 el 23.7 pa 42.9 u,v (fr/asec) -8155.205 -4265.896 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bB..18UHQ Output file: /Exps/c201b/v1/1234/No0057/bB.W.60.18UHQ



Fringe quality 7
 SNR 26454.9
 Int time 409.610
 Amp 477.995
 Phase 13.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.000166
 MBD -0.000167
 Fringe rate (Hz) 0.000001
 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
 2020:199:143541
 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

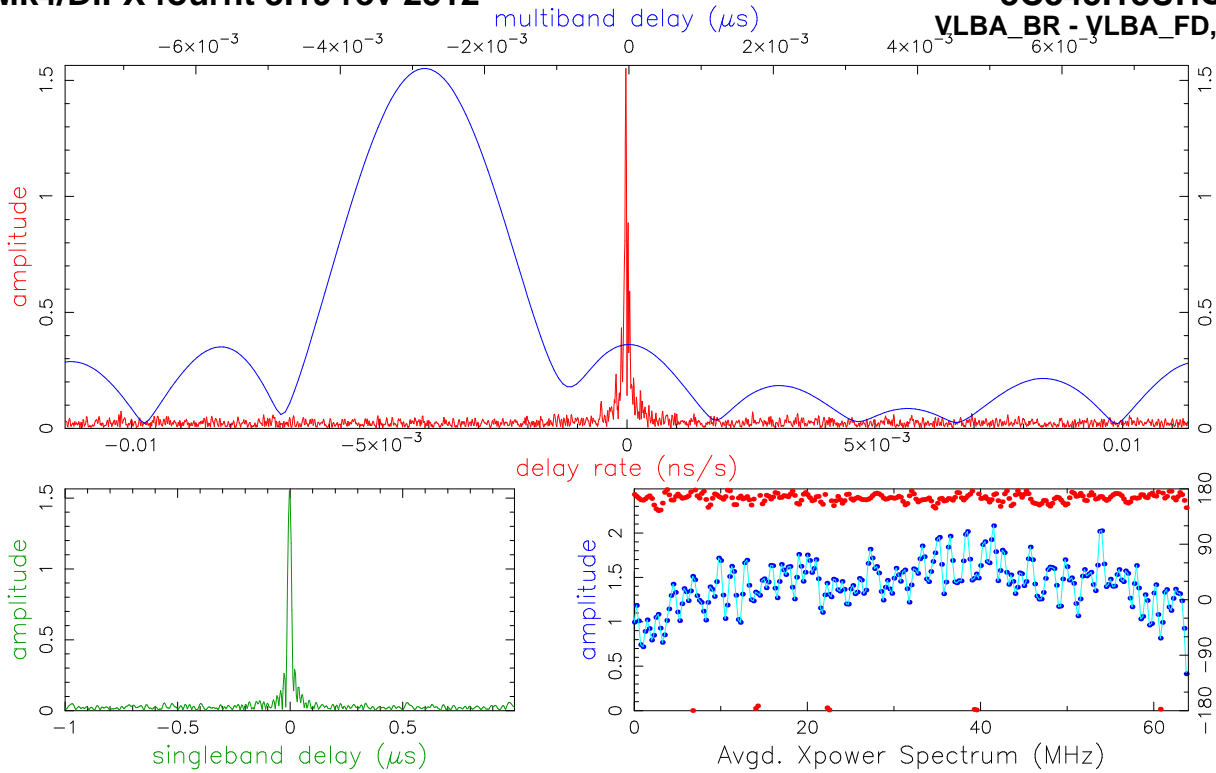


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
36.6	26.4	5.3	-11.1	-14.0	10.2	16.8	27.3	27.3	Phase	13.4
414.7	436.4	405.0	472.6	463.8	459.7	482.8	857.9	482.8	Ampl.	499.1
257.0	256.9	256.7	256.8	257.1	257.1	257.0	257.0	257.0	Sbd box	257.0
U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b 1000	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	0:0	PC phase	
b:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b 1000	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)	-1.67312500000E-04		Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-1.67312E-04	+/-	4.1E-08		
Sband delay (usec)	1.66000000000E-04		Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.66000E-04	+/-	3.3E-07		
Phase delay (usec)	4.33417117666E-07		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.33417E-07	+/-	1.4E-10		
Delay rate (us/s)	9.91980667418E-12		Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	9.91981E-12	+/-	5.8E-13		
Total phase (deg)		13.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	13.4	+/-	0.0		

ph/seg (deg) 0.1 0.0 Theor. Amplitude 477.995 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.5 0.0 Search (2048X32) 471.882 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.2 0.0 Inc. seg. avg. 477.898 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 104.8 el 69.8 pa -57.1 b: az 104.8 el 69.8 pa -57.1 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
 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, bf
VLBA_BR - VLBA_FD, fgroup W, pol RR

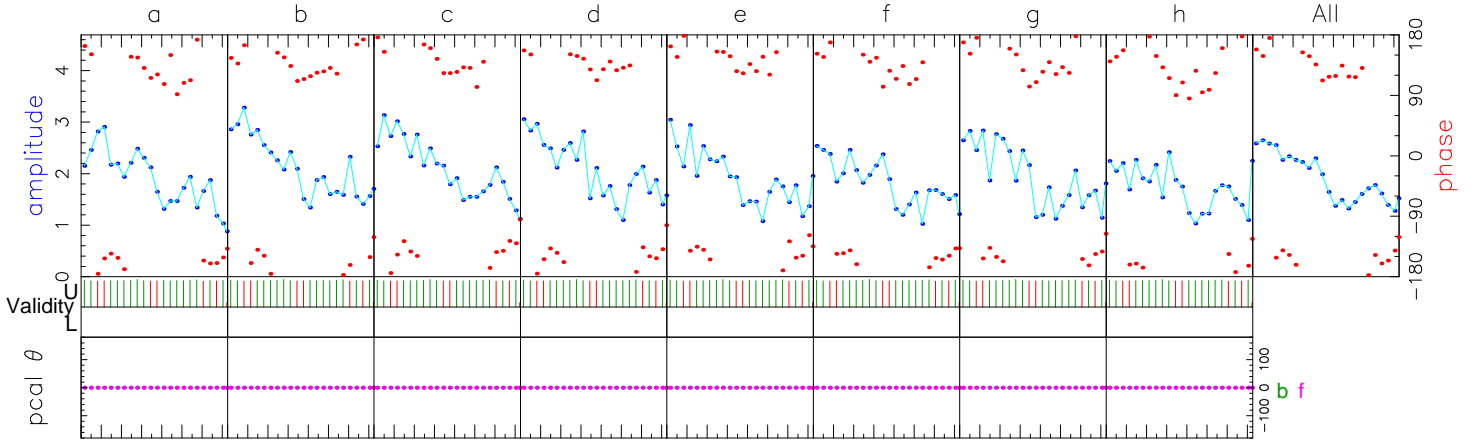


Fringe quality 6

SNR 85.9
Int time 402.987
Amp 1.565
Phase 166.9
PFD 0.0e+00
Delays (us)
SBD -0.002715
MBD -0.002804
Fringe rate (Hz)
-0.002153
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"

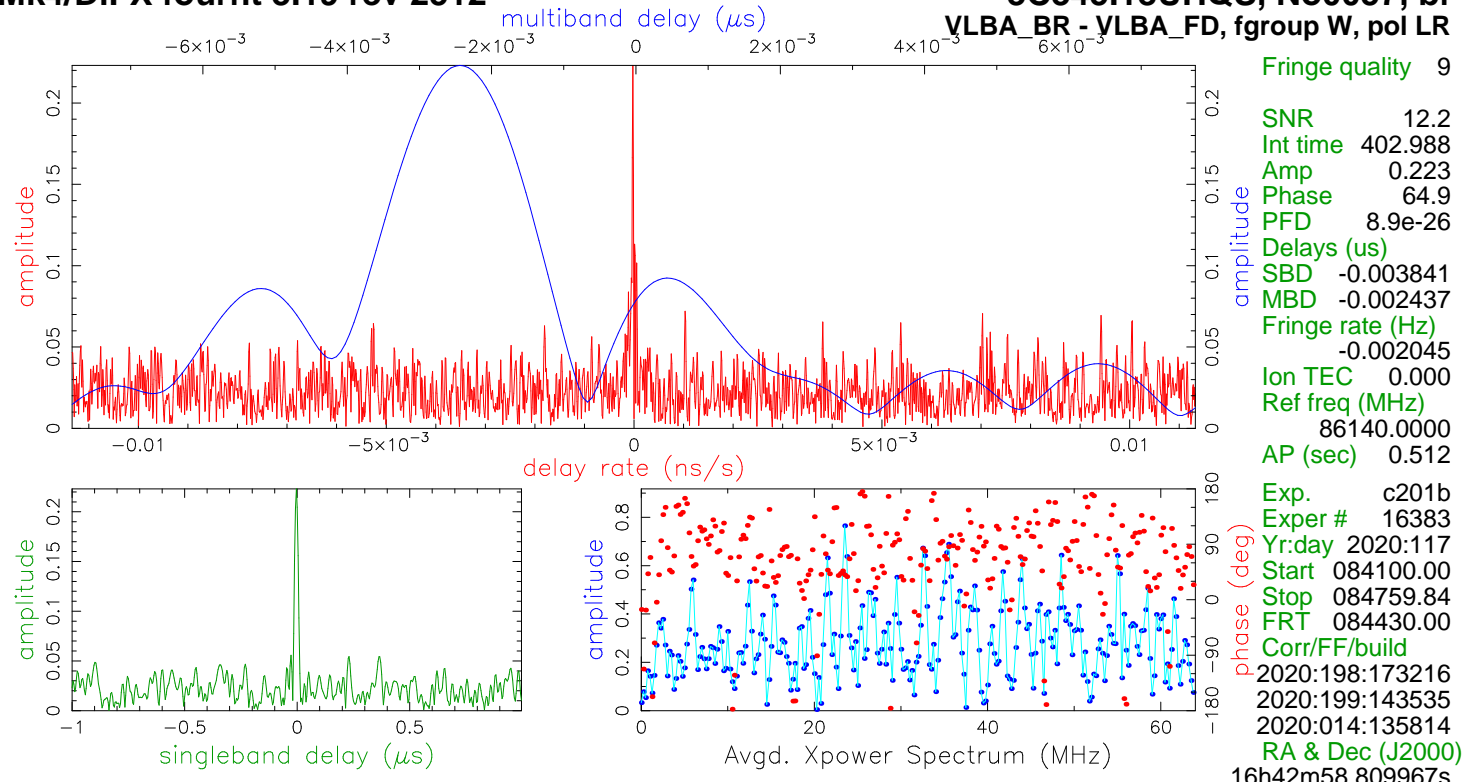
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.93774567297E+02				-7.93771763090E+02					
Sband delay (usec)	-7.93774478340E+02				-5.3080602E+00					
Phase delay (usec)	-7.93771757709E+02				-1.5100001E-07					
Delay rate (us/s)	1.73360253144E-01				1.73360278137E-01					
Total phase (deg)			-75.2		2.11543063136E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									166.9	+/- 1.3
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

b: az 104.8 el 69.8 pa -57.1 f: az 39.2 el 77.7 pa -133.6 u,v (fr/asec) -1242.080 3002.149 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bf..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bf.W.23.18UHQS



Fringe quality 9

SNR 12.2

Int time 402.988

Amp 0.223

Phase 64.9

PFD 8.9e-26

Delays (us)

SBD -0.003841

MBD -0.002437

Fringe rate (Hz)

-0.002045

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

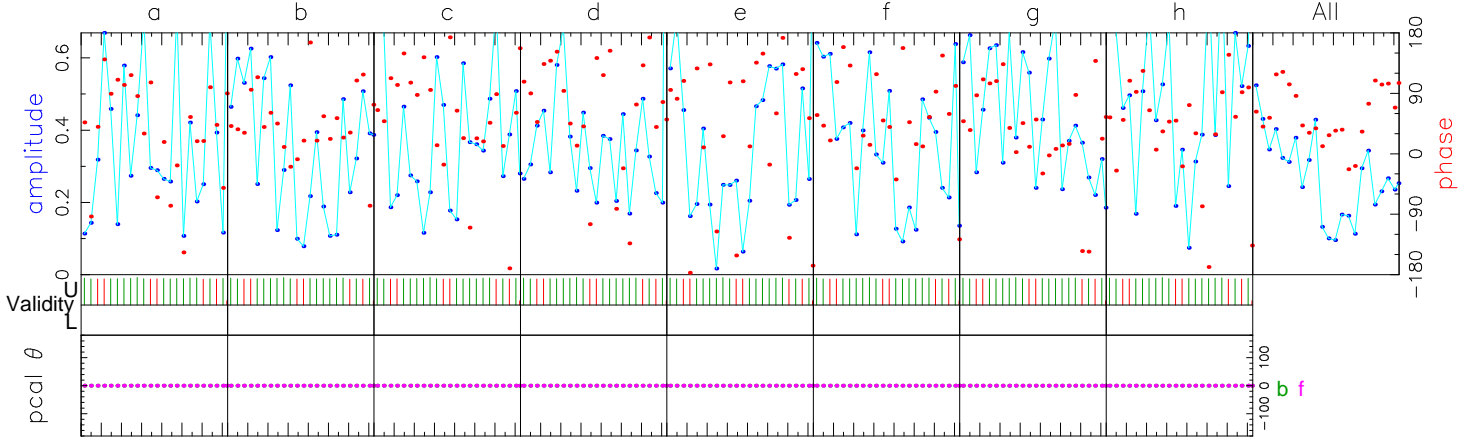
2020:014:135814

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

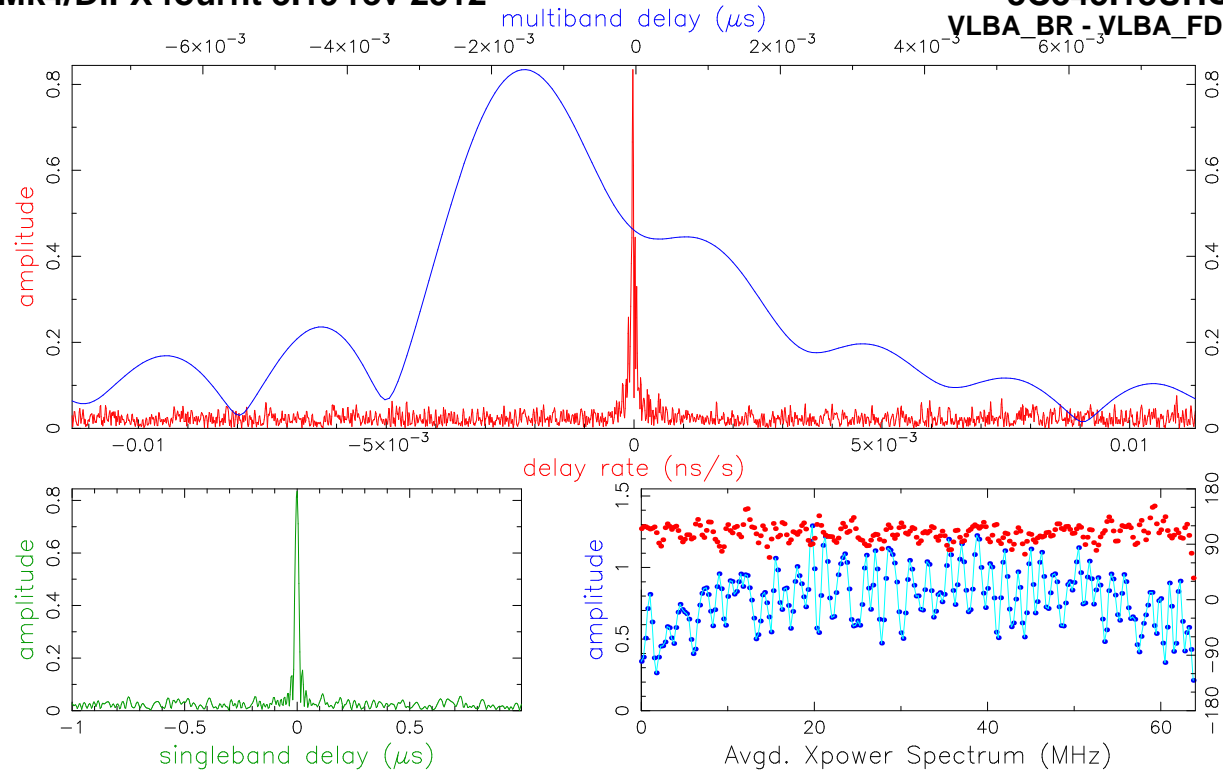


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	62.0	46.0	60.8	98.1	103.8	60.1	47.0	63.4	Phase	64.9
	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	Ampl.	0.2
	348.9	256.8	256.3	256.3	256.7	256.3	256.0	254.9	Sbd box	256.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs 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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.93774199609E+02		Apriori delay (usec)		-7.93771763090E+02		Resid mbdelay (usec)		-2.43652E-03	+/- 8.9E-05
Sband delay (usec)	-7.93775603590E+02		Apriori clock (usec)		-5.3080602E+00		Resid sbdelay (usec)		-3.84050E-03	+/- 7.0E-04
Phase delay (usec)	-7.93771760998E+02		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		2.09168E-06	+/- 3.0E-07
Delay rate (us/s)	1.73360254400E-01		Apriori rate (us/s)		1.73360278137E-01		Resid rate (us/s)		-2.37367E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.11543063136E-05		Resid phase (deg)		64.9	+/- 9.4

	RMS	Theor.	Amplitude	0.223 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	41.4	22.4	Search (2048X32)	0.221	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	56.9	39.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	23.6	13.2	Inc. seg. avg.	0.256	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	18.6	23.1	Inc. frq. avg.	0.229	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 f: az 39.2 el 77.7 pa -133.6 u,v (fr/asec) -1242.080 3002.149 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bf..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bf.W.44.18UHQS

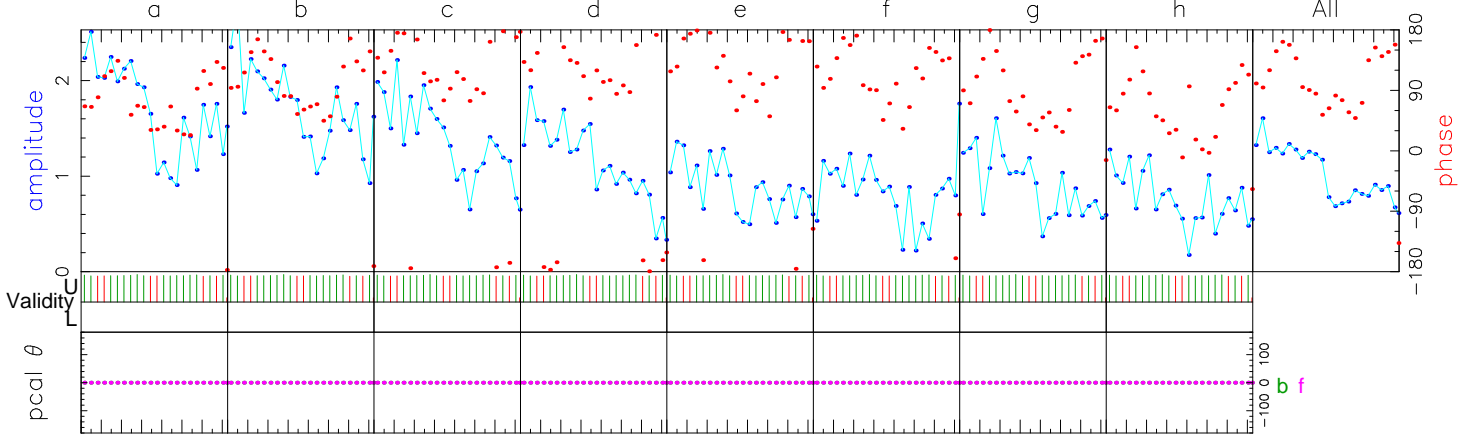


Fringe quality 5

SNR 46.3
Int time 402.988
Amp 0.844
Phase 110.1
PFD 0.0e+00
Delays (us)
SBD -0.001399
MBD -0.001569
Fringe rate (Hz) -0.002046
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"

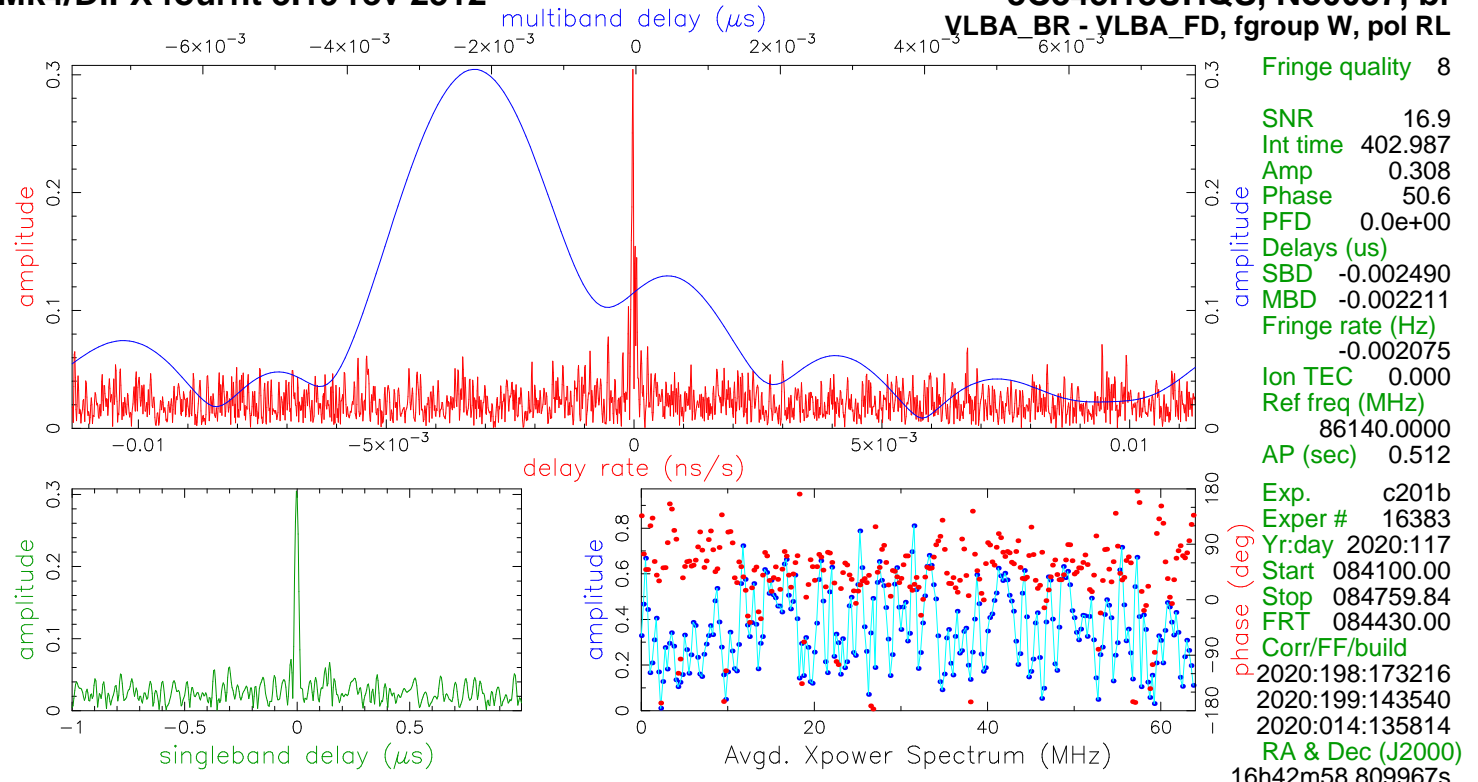
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



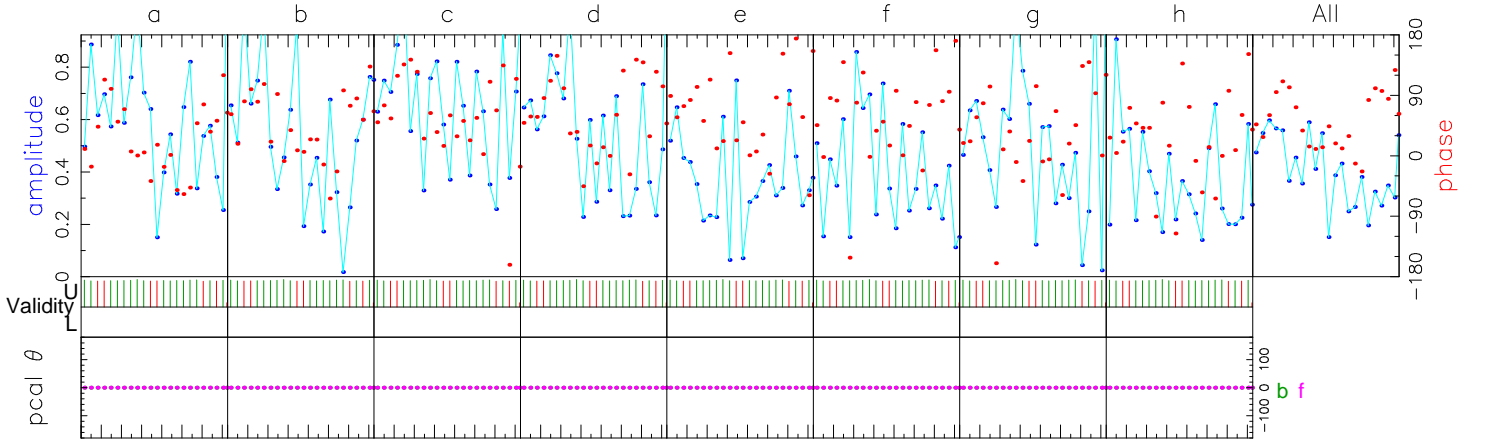
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.93773331922E+02									
Sband delay (usec)	-7.93773162340E+02									
Phase delay (usec)	-7.93771759539E+02									
Delay rate (us/s)	1.73360254387E-01									
Total phase (deg)			-132.0							
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)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	0.844 +/- 0.018									
Search (2048X32)	0.828									
Interp.	0.000									
Inc. seg. avg.	1.032									
Inc. frq. avg.	0.916									
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 104.8 el 69.8 pa -57.1 f: az 39.2 el 77.7 pa -133.6 u,v (fr/asec) -1242.080 3002.149 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bf..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bf.W.5.18UHQS



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

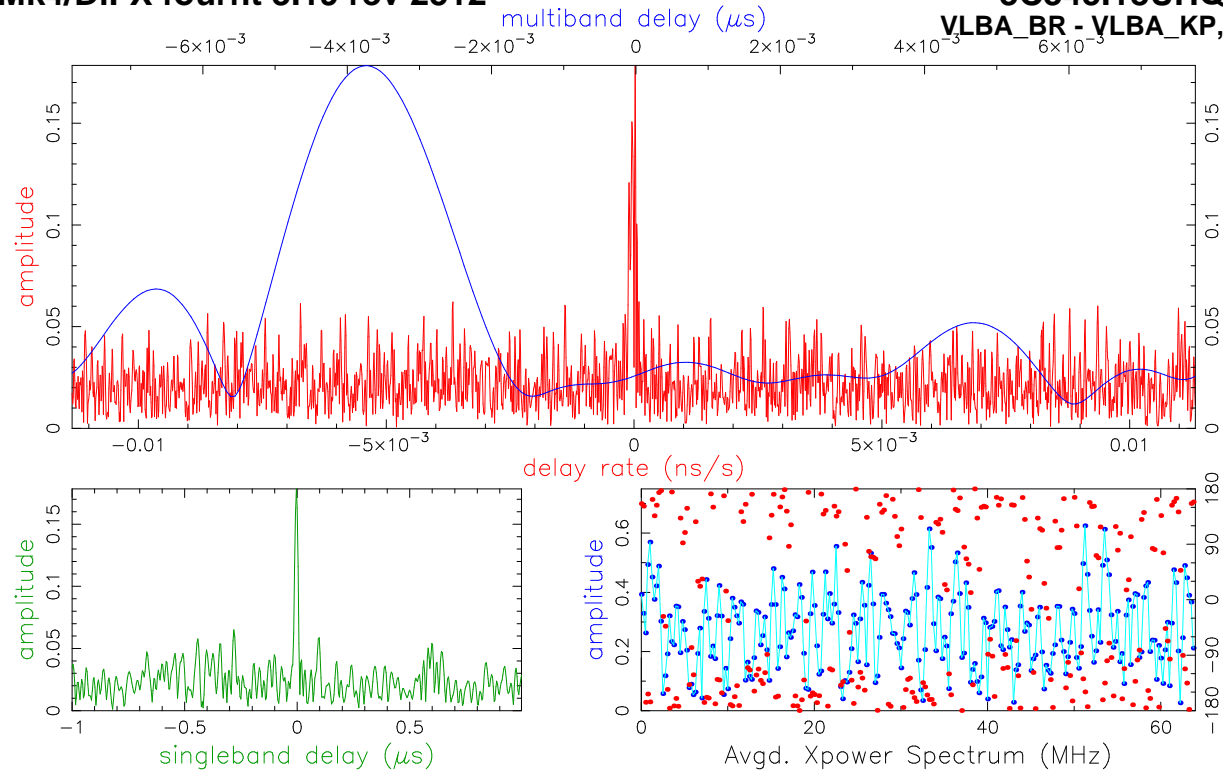


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
18.9	54.5	76.5	67.2	57.1	64.5	29.3	27.6	27.6	Phase	50.6
0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.2	0.2	Ampl.	0.3
256.4	257.4	256.3	256.2	257.3	256.1	255.8	255.2	255.2	Sbd box	256.4
U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f 1000	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	0:0	PC phase	
b:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f 1000	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	
Group delay (usec)(sbd)	-7.93773973641E+02		Apriori delay (usec)	-7.93771763090E+02	Resid mbdelay (usec)	-2.21055E-03	+/-	6.4E-05		
Sband delay (usec)	-7.93774253340E+02		Apriori clock (usec)	-5.3080602E+00	Resid sbdelay (usec)	-2.49025E-03	+/-	5.1E-04		
Phase delay (usec)	-7.93771761459E+02		Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	1.63125E-06	+/-	2.2E-07		
Delay rate (us/s)	1.73360254044E-01		Apriori rate (us/s)	1.73360278137E-01	Resid rate (us/s)	-2.40924E-08	+/-	9.0E-10		
Total phase (deg)		-191.5	Apriori accel (us/s/s)	2.11543063136E-05	Resid phase (deg)	50.6	+/-	6.8		

	RMS	Theor.	Amplitude	0.308 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	42.0	16.3	Search (2048X32)	0.296	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	51.4	28.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	23.1	9.6	Inc. seg. avg.	0.385	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	26.1	16.7	Inc. frq. avg.	0.321	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 104.8 el 69.8 pa -57.1 f: az 39.2 el 77.7 pa -133.6 u,v (fr/asec) -1242.080 3002.149 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bf..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bf.W.66.18UHQS

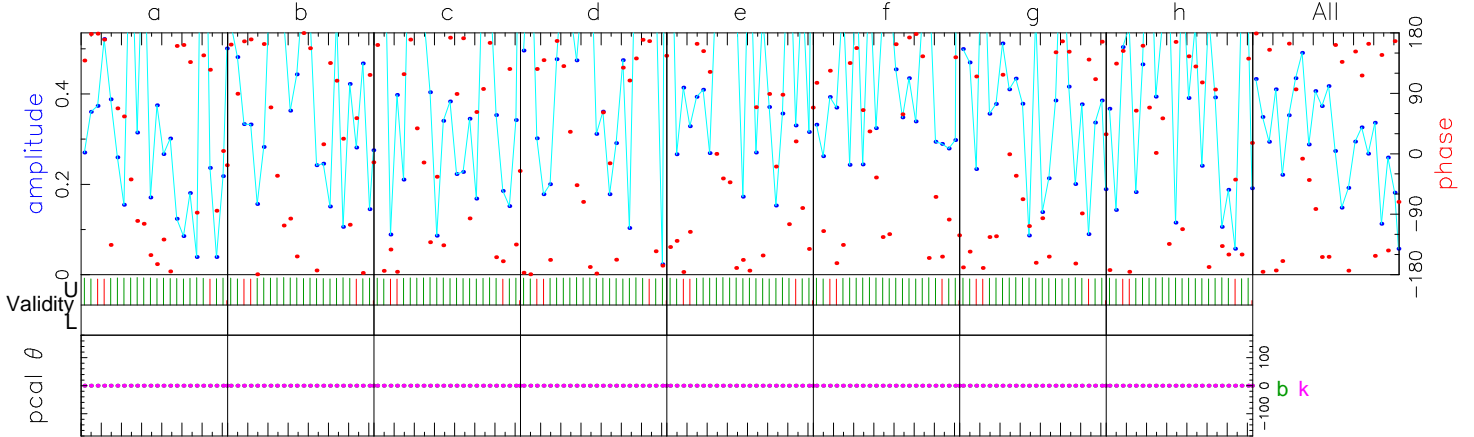


Fringe quality 9

SNR 9.8
Int time 407.129
Amp 0.178
Phase -179.4
PFD 3.0e-14
Delays (us)
SBD -0.003592
MBD -0.003730
Fringe rate (Hz) 0.002341
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

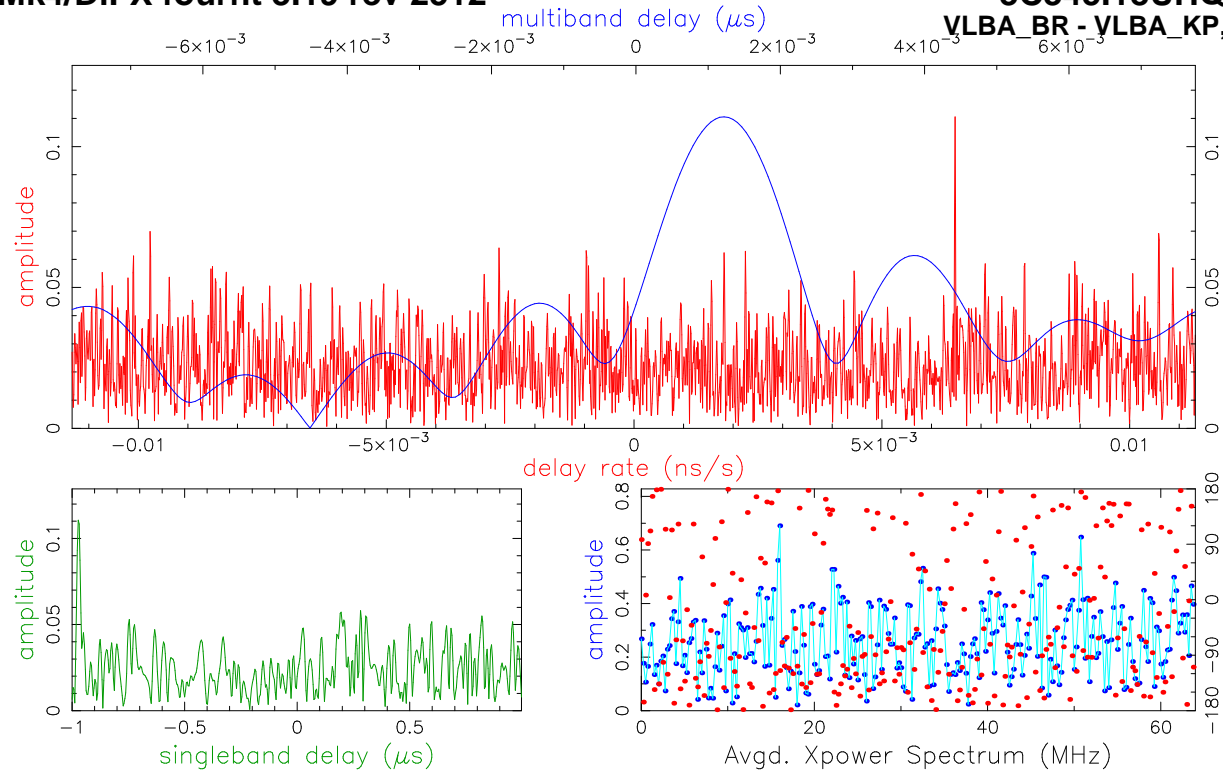
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143531
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



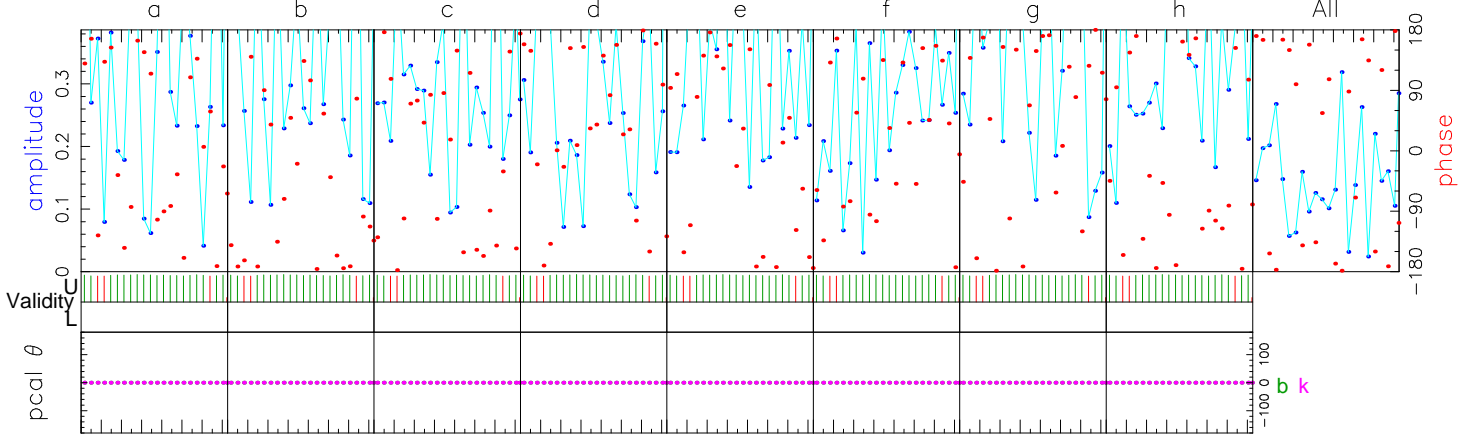
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.54524116889E+02				-4.54520386752E+02				-3.73014E-03	+/- 1.1E-04
Sband delay (usec)	-4.54523978502E+02				-1.0636109E+00				-3.59175E-03	+/- 8.7E-04
Phase delay (usec)	-4.54520392537E+02				-4.7400004E-08				-5.78551E-06	+/- 3.8E-07
Delay rate (us/s)	4.34486782375E-02				4.34486510593E-02				2.71781E-08	+/- 1.5E-09
Total phase (deg)			-220.7		1.79504505880E-05				-179.4	+/- 11.6
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)										
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) 61.1 27.9 Search (2048X32) 0.163 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 92.9 48.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.5 16.5 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.4 28.7 Inc. frq. avg. 0.182 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 104.8 el 69.8 pa -57.1 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) -281.553 2644.118 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.29.18UHQS



Fringe quality 0
SNR 6.2
Int time 407.130
Amp 0.129
Phase 179.1
PFD 1.5e-01
Delays (us)
SBD -0.971110
MBD 0.001237
Fringe rate (Hz)
0.558609
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

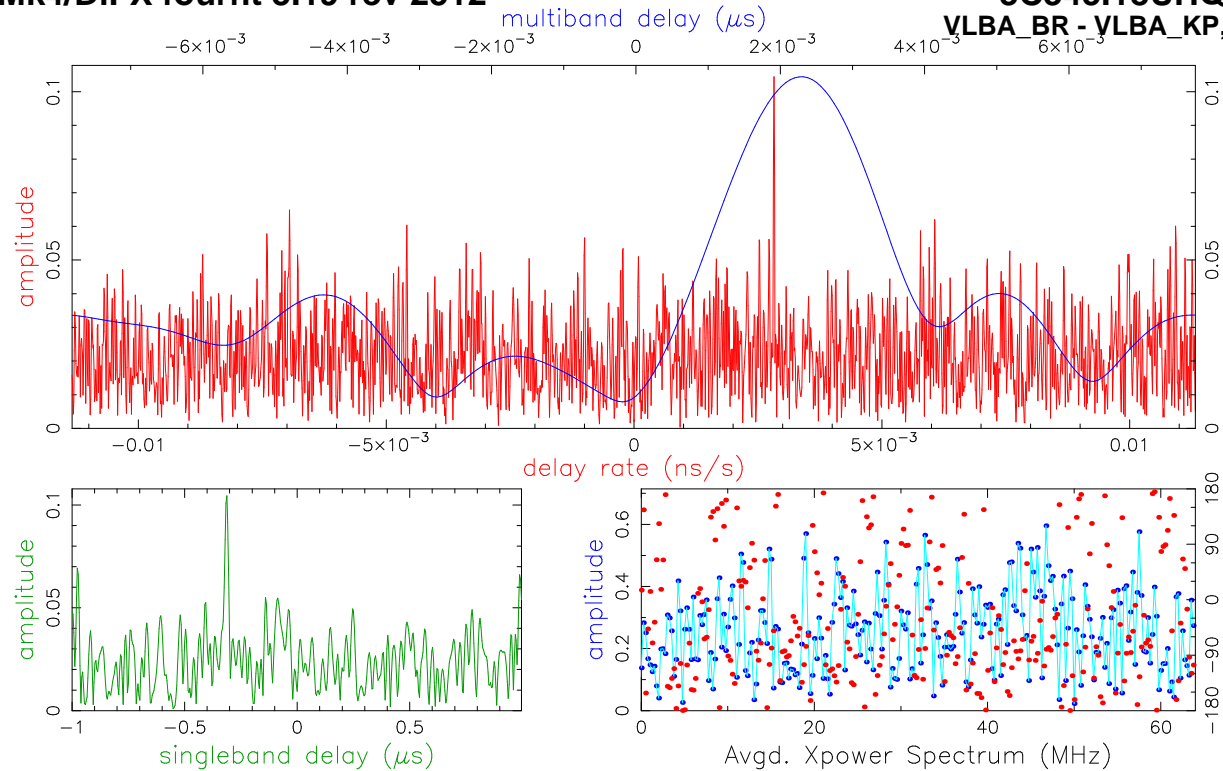


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-162.1	-178.9	-169.0	145.2	151.9	118.8	164.3	-153.3	Phase	179.1
	0.2	0.1	0.2	0.1	0.1	0.0	0.2	0.2	Ampl.	0.1
	67.0	161.9	310.4	50.4	310.4	144.0	351.5	7.9	Sbd box	8.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-4.55487899739E+02	Apriori delay (usec)	-4.54520386752E+02	Resid mbdelay (usec)	1.23701E-03	+/-	1.8E-04
Sband delay (usec)	-4.55491496252E+02	Apriori clock (usec)	-1.0636109E+00	Resid sbdelay (usec)	-9.71110E-01	+/-	1.4E-03
Phase delay (usec)	-4.54520380976E+02	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	5.77608E-06	+/-	6.0E-07
Delay rate (us/s)	4.34551359593E-02	Apriori rate (us/s)	4.34486510593E-02	Resid rate (us/s)	6.48490E-06	+/-	2.5E-09
Total phase (deg)	137.8	Apriori accel (us/s/s)	1.79504505880E-05	Resid phase (deg)	179.1	+/-	18.5

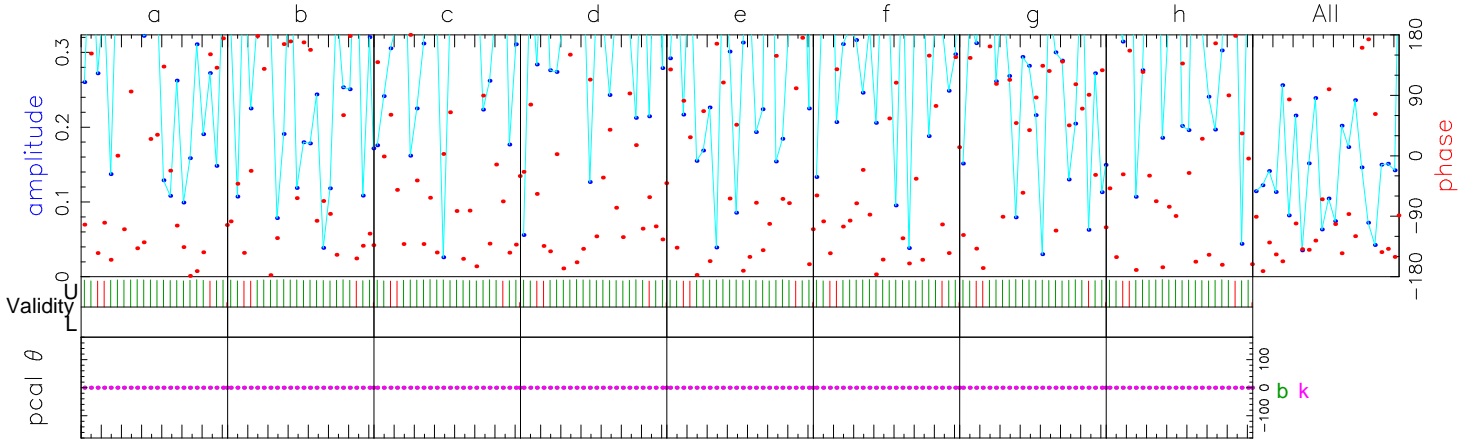
ph/seg (deg)	52.7	Theor.	44.4	Amplitude	0.129 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.3	Search (2048X32)	0.106	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	34.2	Interp.	0.000	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	42.8	Inc. seg. avg.	0.130	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.126	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

b: az 104.8 el 69.8 pa -57.1 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) -281.553 2644.118 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bk..18UHQ5 Output file: /Exps/c201b/v1/1234/No0057/bk.W.50.18UHQ5



Fringe quality 0
SNR 5.8
Int time 407.129
Amp 0.108
Phase -136.3
PFD 8.1e-01
Delays (us)
SBD -0.313576
MBD 0.002279
Fringe rate (Hz)
0.243120
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"

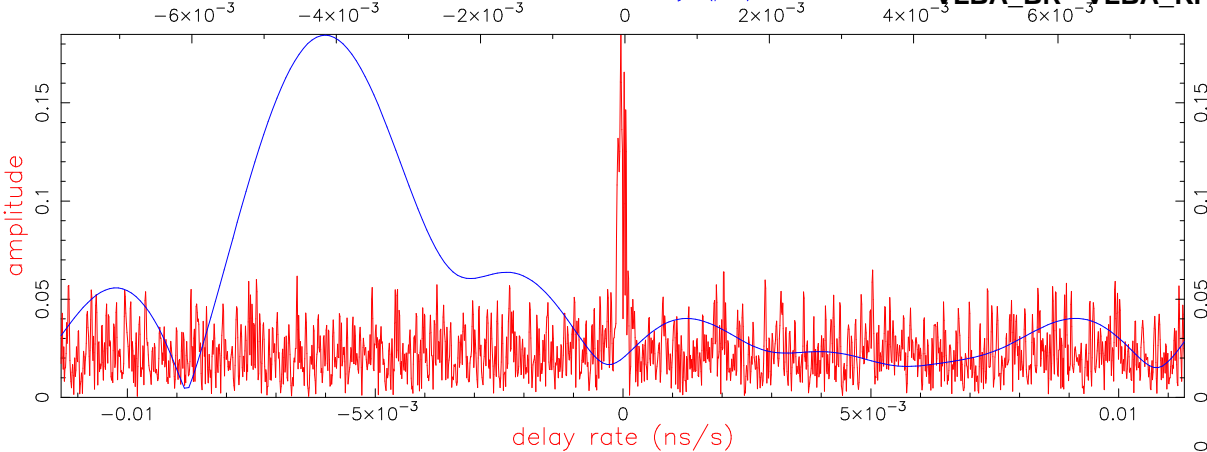
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



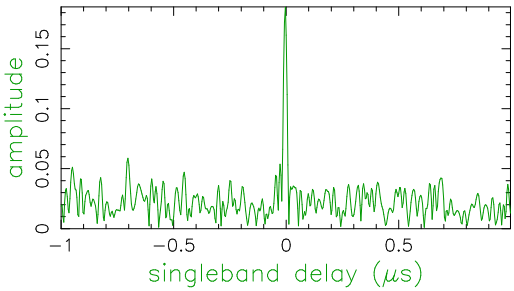
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.6	-157.8	-102.3	-115.3	-153.3	-123.4	139.5	-117.9	Phase	-136.3
	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	153.8	233.0	1.5	369.7	8.0	159.8	241.8	259.8	Sbd box	176.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.54830607986E+02		Apriori delay (usec)		-4.54520386752E+02		Resid mbdelay (usec)		2.27877E-03	+/- 1.9E-04
Sband delay (usec)	-4.54833962252E+02		Apriori clock (usec)		-1.0636109E+00		Resid sbdelay (usec)		-3.13576E-01	+/- 1.5E-03
Phase delay (usec)	-4.54520391146E+02		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-4.39386E-06	+/- 6.4E-07
Delay rate (us/s)	4.34514734449E-02		Apriori rate (us/s)		4.34486510593E-02		Resid rate (us/s)		2.82239E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.79504505880E-05		Resid phase (deg)		-136.3	+/- 19.8

ph/seg (deg) 61.3 47.4 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.4 82.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.2 27.9 Inc. seg. avg. 0.107 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.9 48.8 Inc. frq. avg. 0.112 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 104.8 el 69.8 pa -57.1 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) -281.553 2644.118 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.69.18UHQS

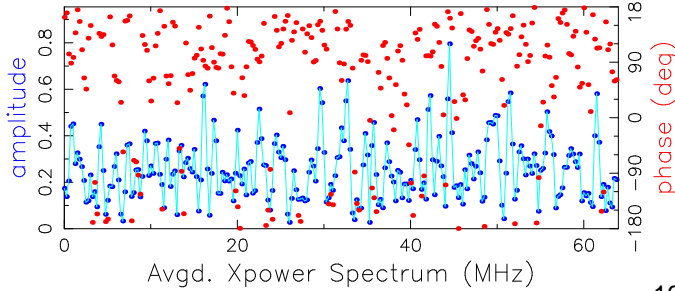
multiband delay (μ s)



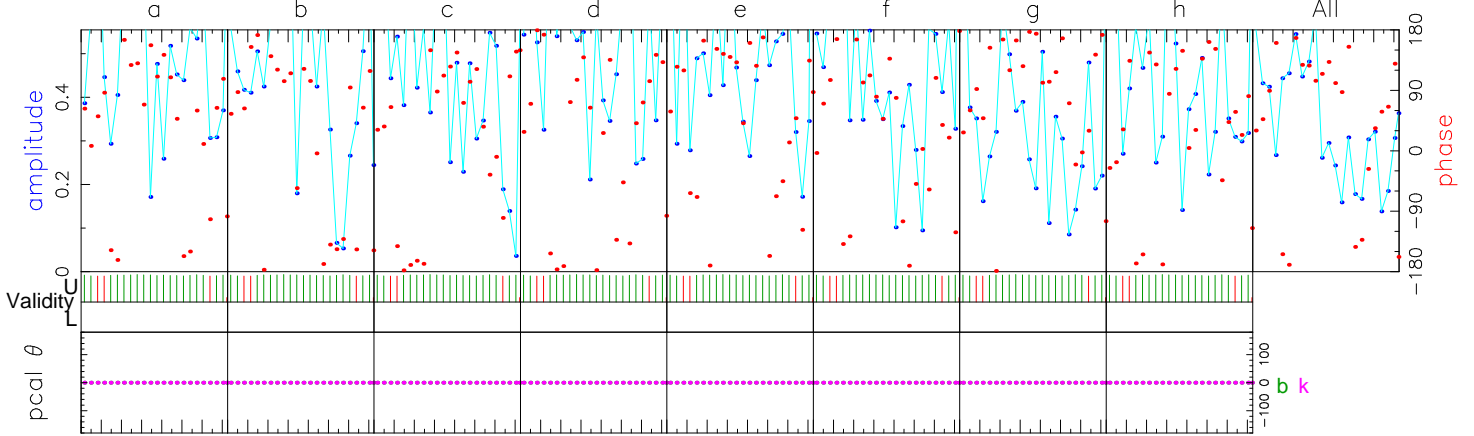
Fringe quality 9
SNR 10.2
Int time 407.130
Amp 0.185
Phase 119.6
PFD 8.5e-16
Delays (us)
SBD -0.004518
MBD -0.004162
Fringe rate (Hz)
-0.003379
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143526
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



delay rate (ns/s)



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

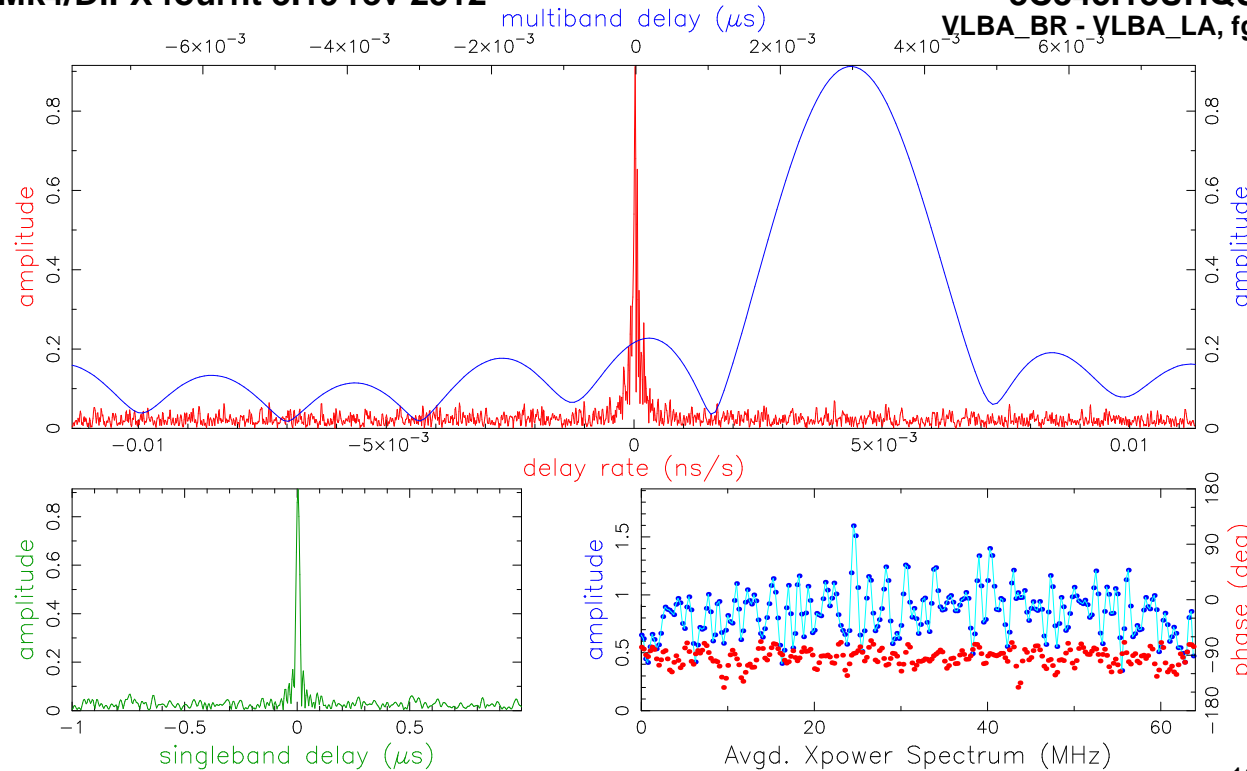


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.54524548822E+02				-4.54520386752E+02				Resid mbdelay (usec)	-4.16207E-03 +/- 1.1E-04
Sband delay (usec)	-4.54524905002E+02				-1.0636109E+00				Resid sbdelay (usec)	-4.51825E-03 +/- 8.4E-04
Phase delay (usec)	-4.54520382896E+02				-4.7400004E-08				Resid phdelay (usec)	3.85599E-06 +/- 3.6E-07
Delay rate (us/s)	4.34486118329E-02				4.34486510593E-02				Resid rate (us/s)	-3.92265E-08 +/- 1.5E-09
Total phase (deg)			78.2		1.79504505880E-05				Resid phase (deg)	119.6 +/- 11.2

	RMS	Theor.	Amplitude	0.185 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	64.4	26.9	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	112.3	47.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	19.1	15.9	Inc. seg. avg.	0.308	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	33.2	27.7	Inc. frq. avg.	0.185	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 k: az 56.4 el 73.7 pa -114.9 u,v (fr/asec) -281.553 2644.118 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.7.18UHQS

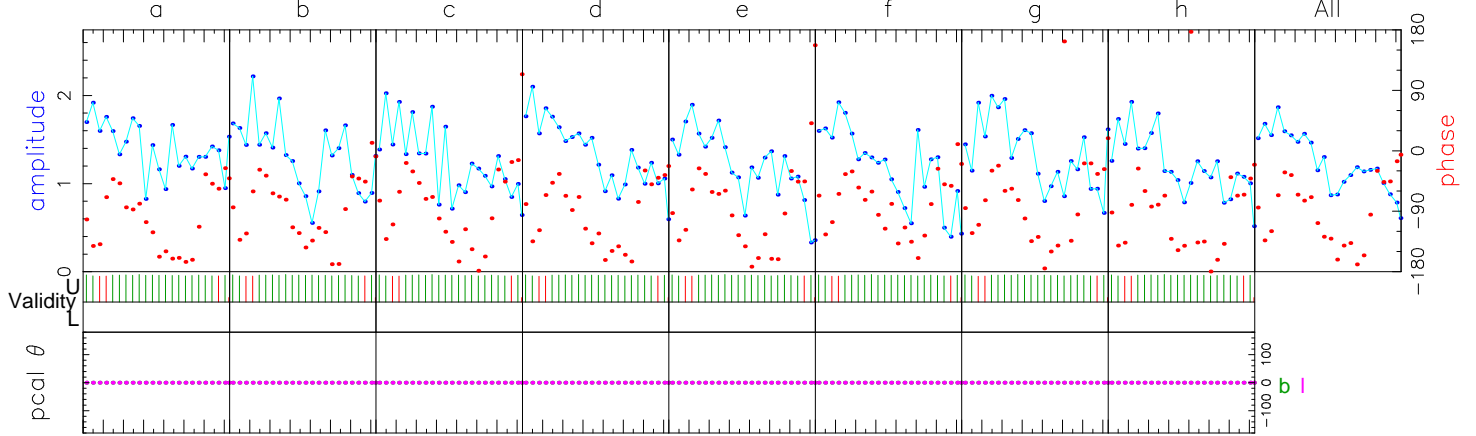


Fringe quality 5

SNR 50.4
Int time 405.867
Amp 0.915
Phase -90.2
PFD 0.0e+00
Delays (us)
SBD 0.003221
MBD 0.002959
Fringe rate (Hz) 0.001800
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
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	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.21062909390E+02				-9.21065868159E+02				Resid mbdelay (usec)	2.95877E-03 +/- 2.2E-05
Sband delay (usec)	-9.21062646909E+02				2.2982023E+00				Resid sbdelay (usec)	3.22125E-03 +/- 1.7E-04
Phase delay (usec)	-9.21065871067E+02				1.0899999E-07				Resid phdelay (usec)	-2.90761E-06 +/- 7.3E-08
Delay rate (us/s)	1.44108413851E-01				1.44108392956E-01				Resid rate (us/s)	2.08947E-08 +/- 3.0E-10
Total phase (deg)			-48.1		1.64574432916E-05				Resid phase (deg)	-90.2 +/- 2.3

ph/seg (deg) 47.0 5.5
amp/seg (%) 50.2 9.5
ph/frq (deg) 9.3 3.2
amp/frq (%) 6.3 5.6

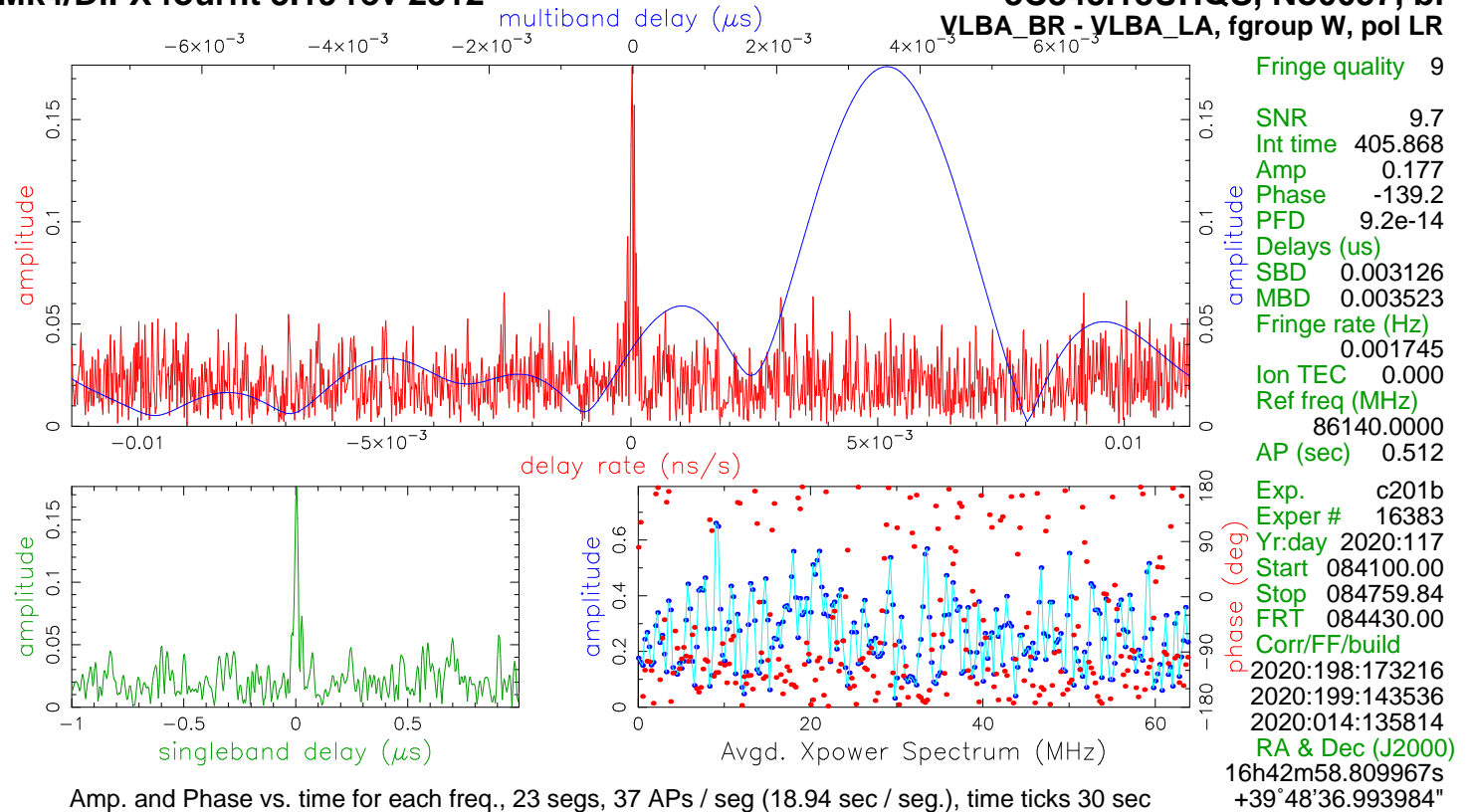
RMS Theor. Amplitude 0.915 +/- 0.018
Search (2048X32) 0.908
Interp. 0.000
Inc. seg. avg. 1.257
Inc. frq. avg. 0.920

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

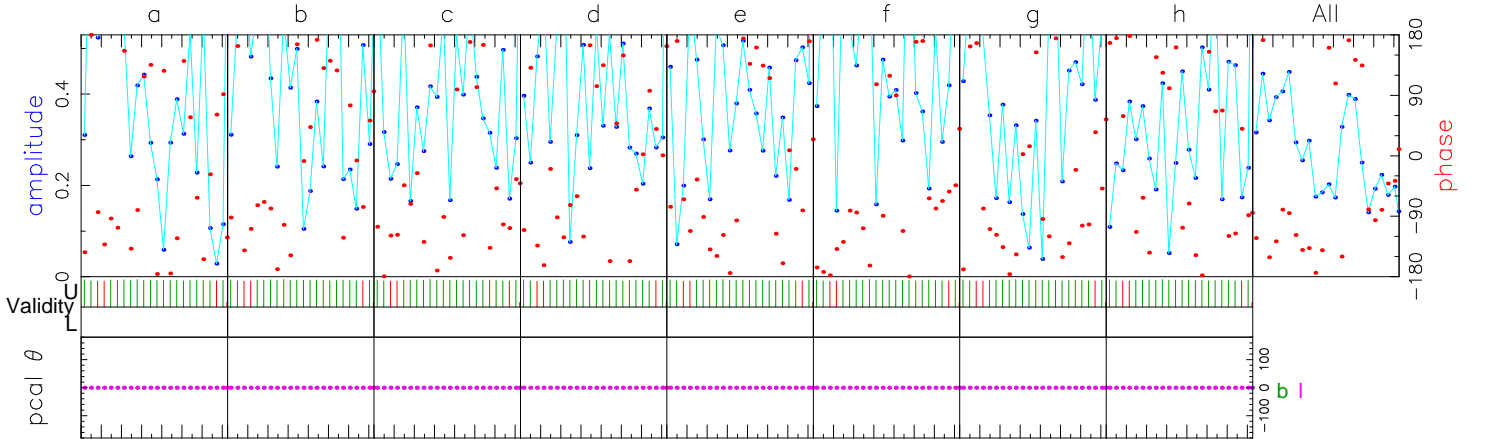
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.27.18UHQS



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

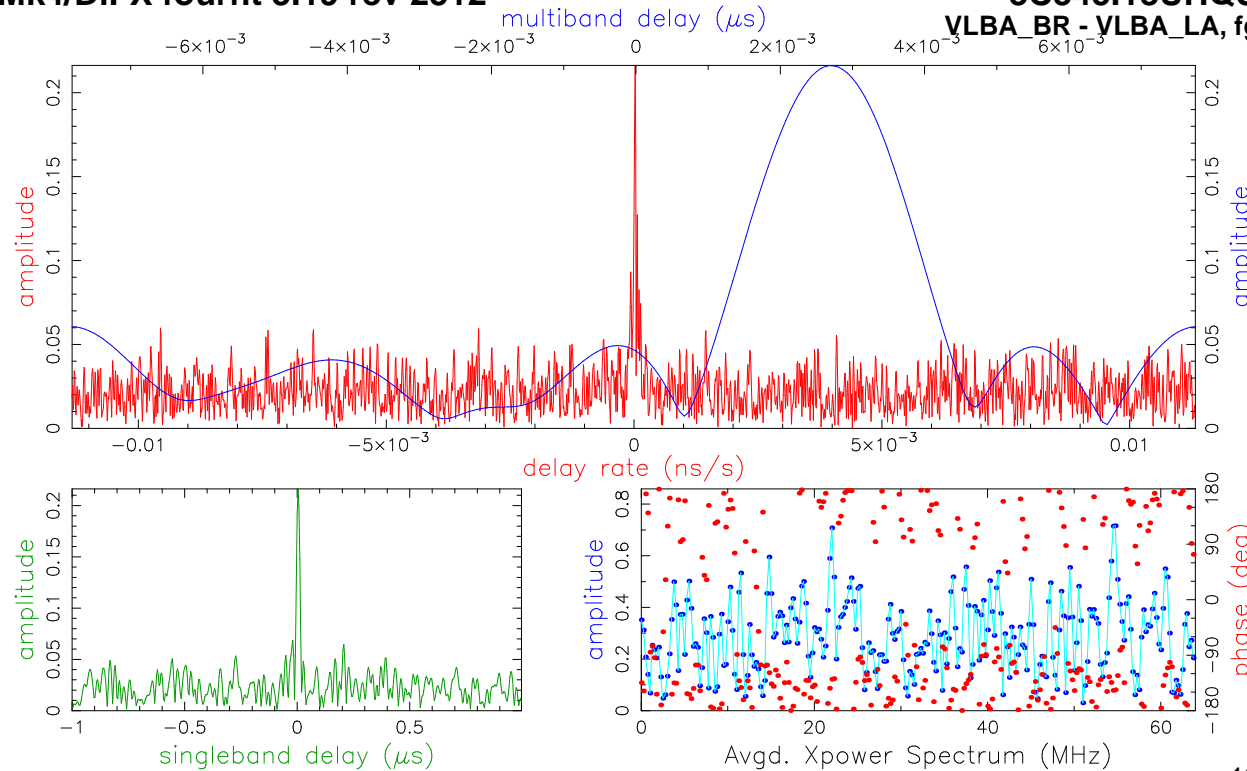


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.6	-144.9	-124.6	-147.8	-131.4	-133.9	-134.7	-159.6	Phase	-139.2
	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.1	Ampl.	0.2
	259.0	258.3	28.5	79.4	505.7	256.9	257.6	254.6	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.21062345046E+02		Apriori delay (usec)		-9.21065868159E+02		Resid mbdelay (usec)		3.52311E-03	+/- 1.1E-04
Sband delay (usec)	-9.21062741659E+02		Apriori clock (usec)		2.2982023E+00		Resid sbdelay (usec)		3.12650E-03	+/- 8.9E-04
Phase delay (usec)	-9.21065872647E+02		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-4.48811E-06	+/- 3.8E-07
Delay rate (us/s)	1.44108413209E-01		Apriori rate (us/s)		1.44108392956E-01		Resid rate (us/s)		2.02527E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.64574432916E-05		Resid phase (deg)		-139.2	+/- 11.8

	RMS	Theor.	Amplitude	0.177 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.5	28.2	Search (2048X32)	0.175	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	81.0	49.3	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	12.4	16.7	Inc. seg. avg.	0.252	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	25.4	29.1	Inc. frq. avg.	0.171	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.46.18UHQS

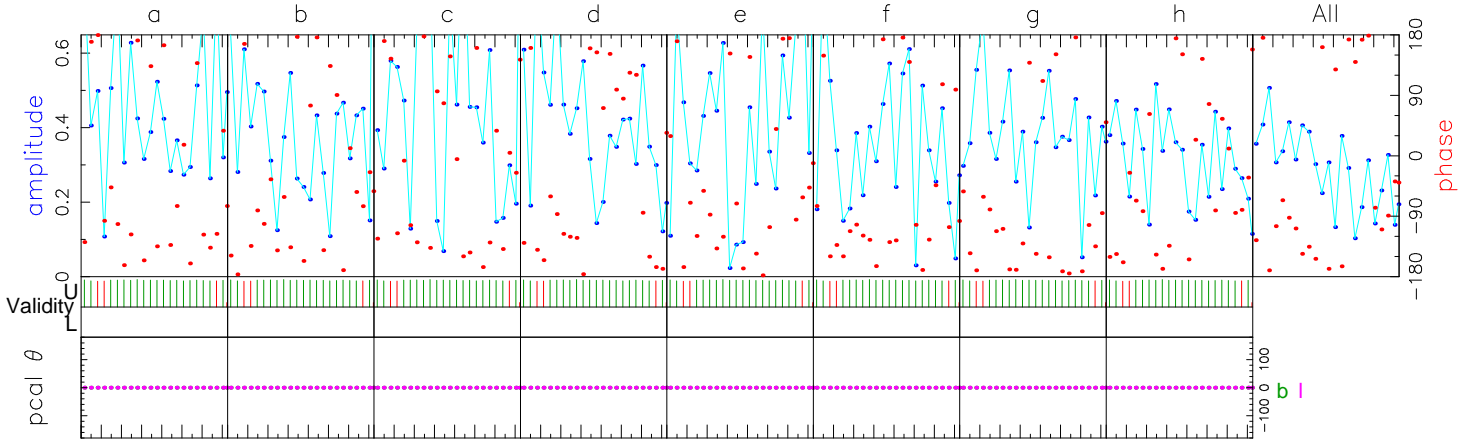


Fringe quality 9

SNR 11.9
Int time 405.867
Amp 0.216
Phase -142.0
PFD 4.9e-24
Delays (us)
SBD 0.004237
MBD 0.002716
Fringe rate (Hz) 0.001907
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

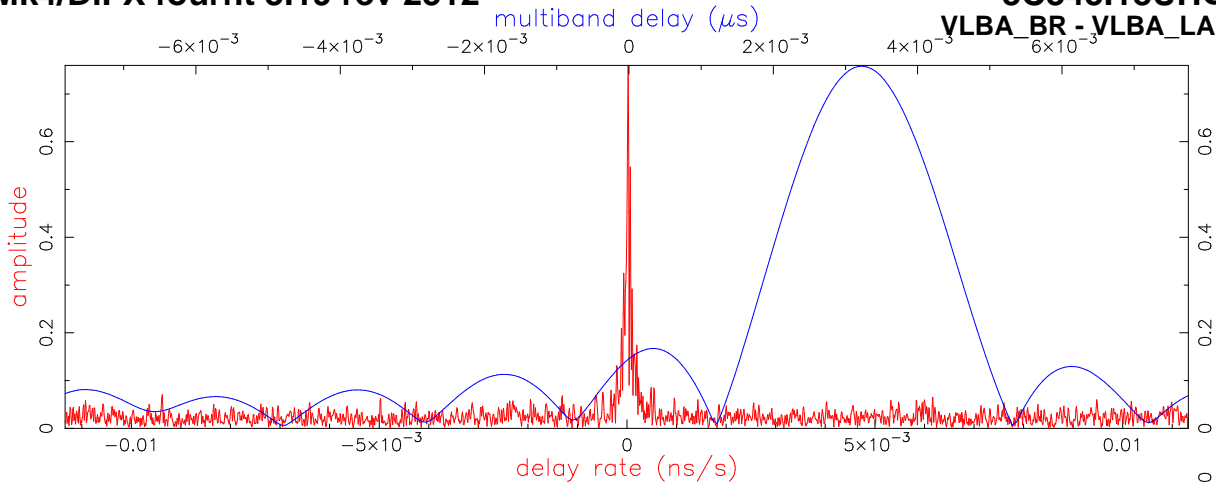


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.21063152296E+02				-9.21065868159E+02				2.71586E-03	+/- 9.1E-05
Sband delay (usec)	-9.21061630909E+02				2.2982023E+00				4.23725E-03	+/- 7.2E-04
Phase delay (usec)	-9.21065872738E+02				1.0899999E-07				-4.57886E-06	+/- 3.1E-07
Delay rate (us/s)	1.44108415099E-01				1.44108392956E-01				2.21431E-08	+/- 1.3E-09
Total phase (deg)			-99.9		1.64574432916E-05				-142.0	+/- 9.6
Apriori delay (usec)					0.211					
Apriori clock (usec)					0.211					
Apriori clockrate (us/s)					0.000					
Apriori rate (us/s)					0.273					
Apriori accel (us/s/s)					0.214					
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

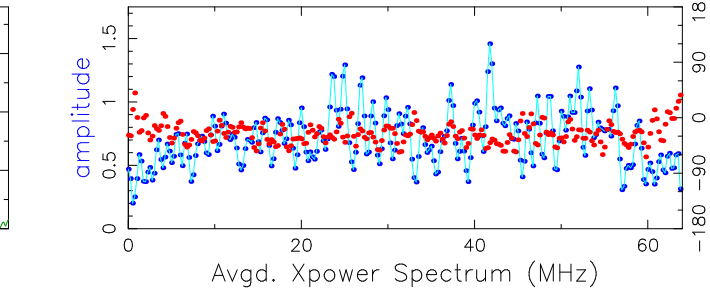
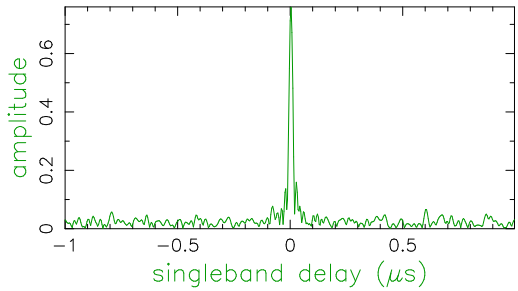
ph/seg (deg) 51.4 23.1 Search (2048X32) 0.216 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.3 40.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.4 13.6 Inc. seg. avg. 0.273 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.8 23.7 Inc. frq. avg. 0.214 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.64.18UHQS

Mk4/DiFX fourfit 3.19 rev 2512

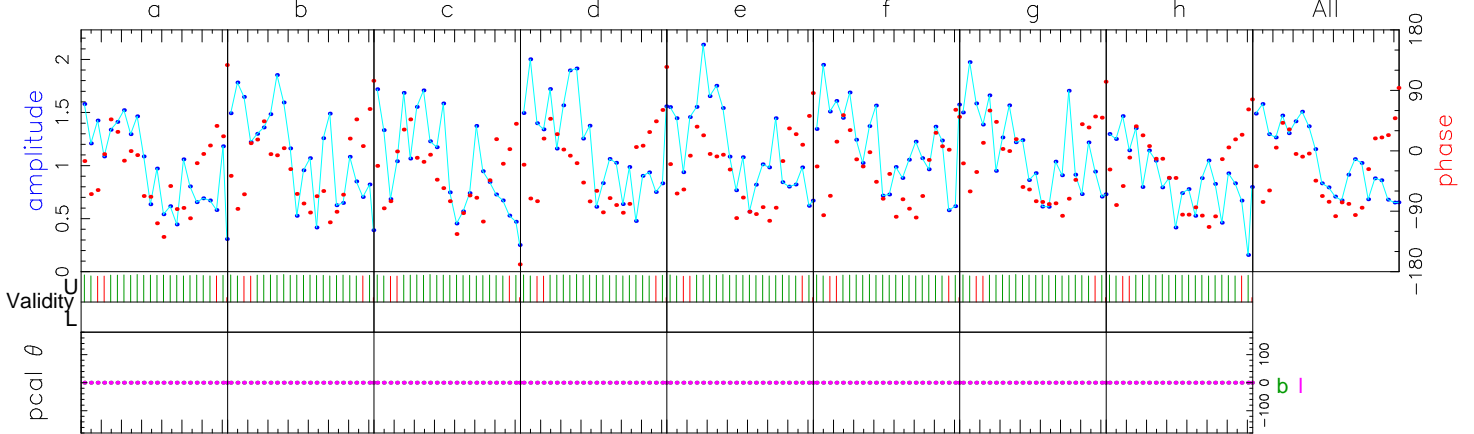
3C345.18UHQS, No0057, bl
VLBA_BR - VLBA_LA, fgroup W, pol LL



Fringe quality 7
SNR 41.9
Int time 405.868
Amp 0.760
Phase -26.2
PFD 0.0e+00
Delays (us)
SBD 0.003312
MBD 0.003213
Fringe rate (Hz) 0.001835
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

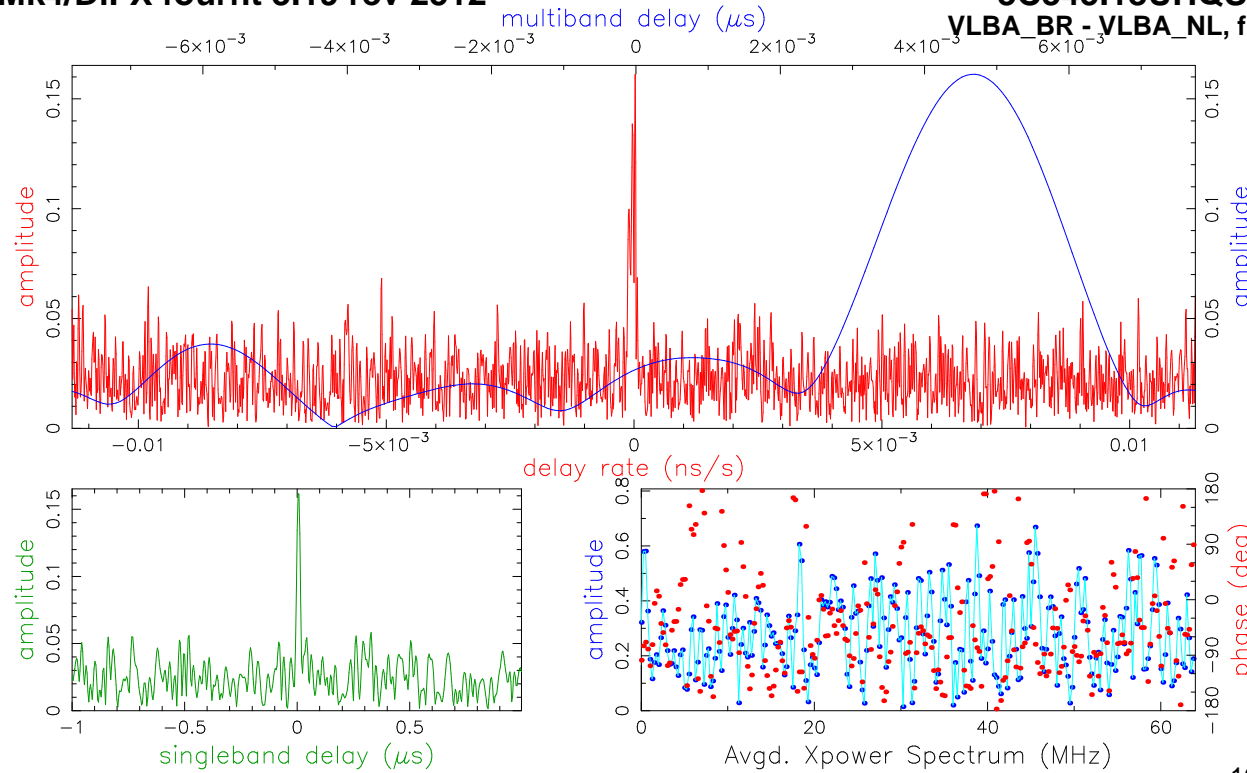


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.4	-28.2	-31.2	-24.7	-23.3	-27.1	-19.2	-31.9	Phase	-26.2
	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.6	Ampl.	0.8
	258.3	257.5	258.1	257.5	257.9	257.9	257.8	257.5	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.21062655640E+02	Apriori delay (usec)	-9.21065868159E+02	Resid mbdelay (usec)	3.21252E-03	+/-	2.6E-05
Sband delay (usec)	-9.21062555909E+02	Apriori clock (usec)	2.2982023E+00	Resid sbdelay (usec)	3.31225E-03	+/-	2.1E-04
Phase delay (usec)	-9.21065869003E+02	Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	-8.44117E-07	+/-	8.8E-08
Delay rate (us/s)	1.44108414264E-01	Apriori rate (us/s)	1.44108392956E-01	Resid rate (us/s)	2.13077E-08	+/-	3.6E-10
Total phase (deg)	-344.1	Apriori accel (us/s/s)	1.64574432916E-05	Resid phase (deg)	-26.2	+/-	2.7

ph/seg (deg)	48.1	Theor.	6.6	Amplitude	0.760 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	58.2		11.5	Search (2048X32)	0.745	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	4.5		3.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	9.1		6.8	Inc. seg. avg.	1.064	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.758	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.8.18UHQS

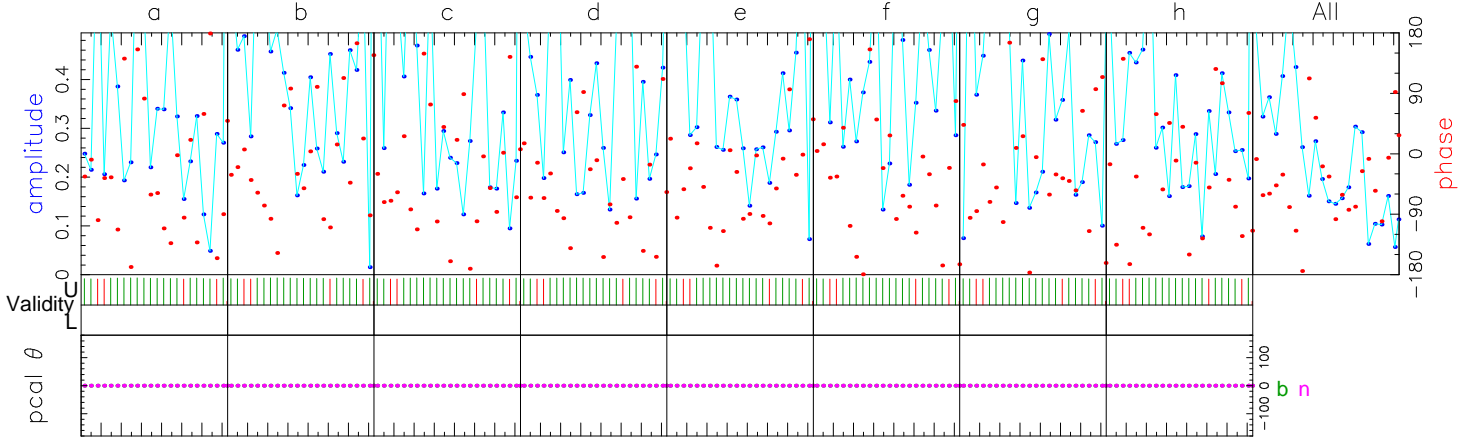


Fringe quality 9

SNR 9.1
Int time 405.018
Amp 0.165
Phase -53.3
PFD 3.7e-11
Delays (us)
SBD 0.005800
MBD 0.004645
Fringe rate (Hz) 0.002090
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

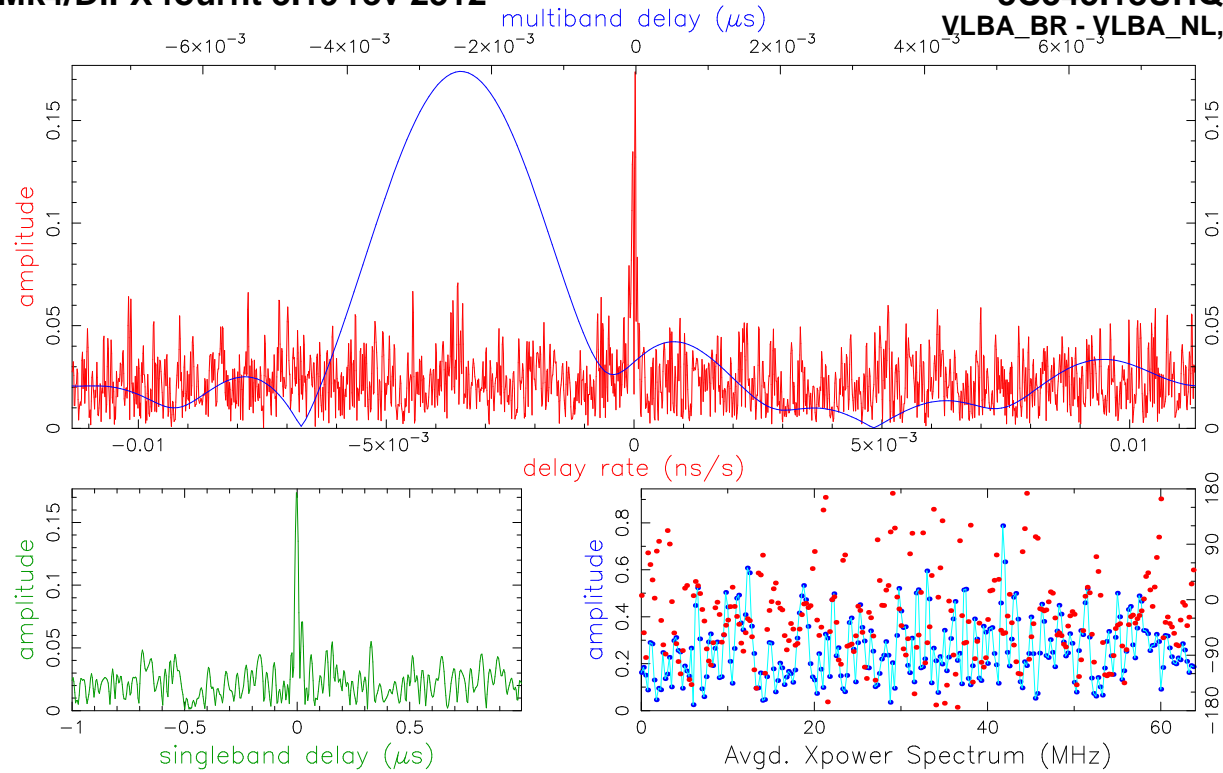
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.51
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143527
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.2222123261E+03								4.64451E-03	+/- 1.2E-04
Sband delay (usec)	-1.22221007737E+03								5.79975E-03	+/- 9.5E-04
Phase delay (usec)	-1.22221587884E+03								-1.71966E-06	+/- 4.1E-07
Delay rate (us/s)	3.86254296880E-01								2.42610E-08	+/- 1.7E-09
Total phase (deg)			-289.1						-53.3	+/- 12.6
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)										
Bits/sample: 2x2										
Sample rate(MSamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 65.9 30.2 Search (2048X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 98.0 52.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.1 17.8 Inc. seg. avg. 0.219 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.2 31.1 Inc. frq. avg. 0.161 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 104.8 el 69.8 pa -57.1 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) -2850.211 1361.938 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.10.18UHQS

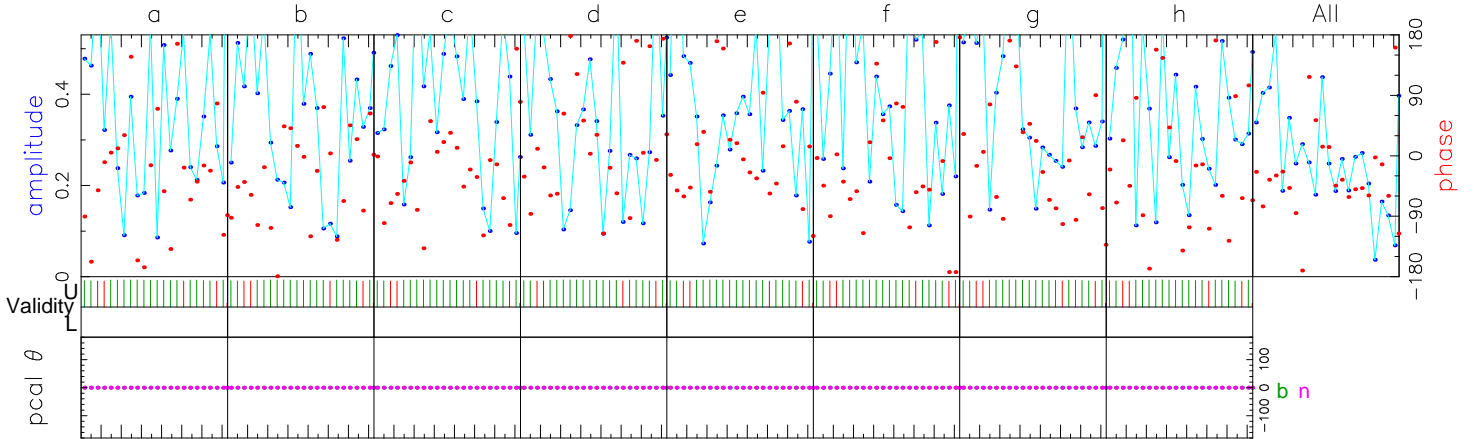


Fringe quality 9

SNR 9.7
Int time 405.016
Amp 0.177
Phase -37.2
PFD 9.2e-14
Delays (us)
SBD -0.002260
MBD -0.002370
Fringe rate (Hz) 0.002079
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
2020:199:143532
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

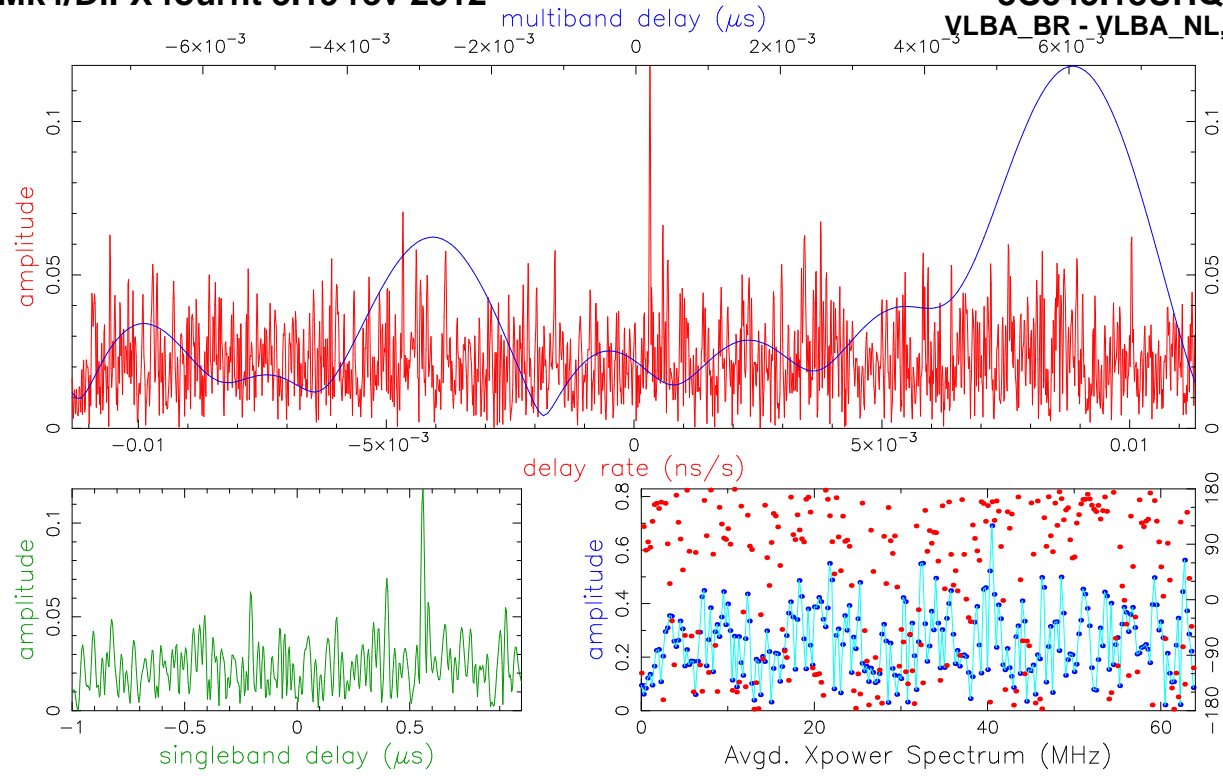
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.22221824686E+03	-1.22221813687E+03	-1.22221587832E+03	-1.22221587712E+03	-1.22221587712E+03	-1.22221587712E+03	-1.22221587712E+03	-1.22221587712E+03		
Sband delay (usec)	-1.22221813687E+03	-1.22221813687E+03	-1.22221587832E+03	-1.22221587712E+03	-1.22221587712E+03	-1.22221587712E+03	-1.22221587712E+03	-1.22221587712E+03		
Phase delay (usec)	-1.22221587832E+03	-1.22221587832E+03	-1.22221587832E+03	-1.22221587832E+03	-1.22221587832E+03	-1.22221587832E+03	-1.22221587832E+03	-1.22221587832E+03		
Delay rate (us/s)	3.86254296749E-01	3.86254296749E-01	3.86254296749E-01	3.86254296749E-01	3.86254296749E-01	3.86254296749E-01	3.86254296749E-01	3.86254296749E-01		
Total phase (deg)			-273.0							
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	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL		
Pcal rate:	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
Bits/sample:	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2		
Sample rate (MSamp/s):	128	128	128	128	128	128	128	128		
Data rate (Mb/s):	2048	2048	2048	2048	2048	2048	2048	2048		
nlags:	256	256	256	256	256	256	256	256		
t_cohere:	infinite	infinite	infinite	infinite	infinite	infinite	infinite	infinite		
sb window (us)	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000		
mb window (us)	-0.008	0.008	-0.008	0.008	-0.008	0.008	-0.008	0.008		
dr window (ns/s)	-0.011	0.011	-0.011	0.011	-0.011	0.011	-0.011	0.011		
ion window (TEC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

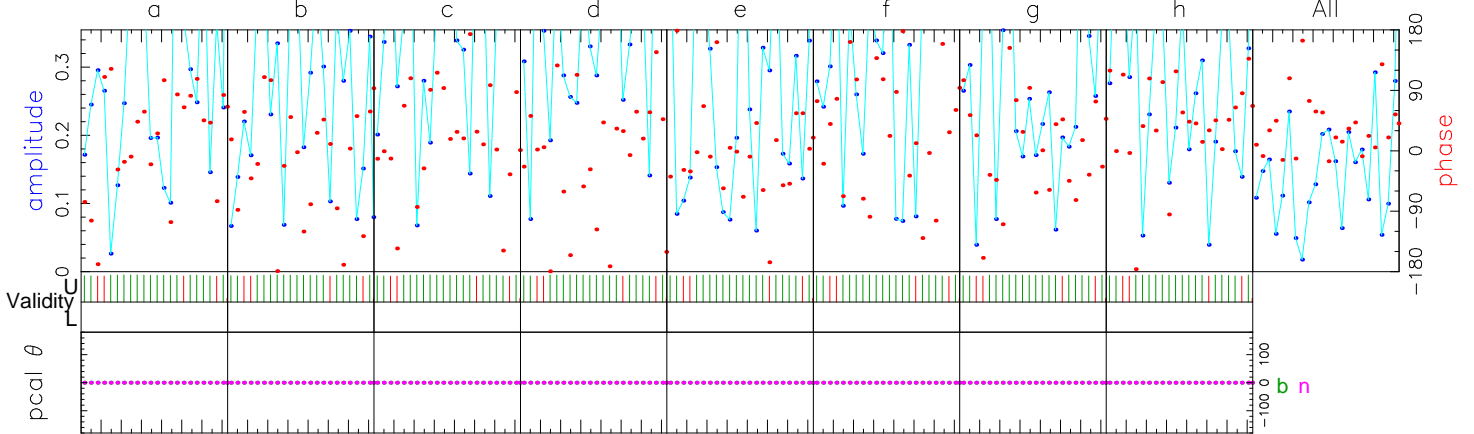
b: az 104.8 el 69.8 pa -57.1 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) -2850.211 1361.938 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bn..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bn.W.32.18UHQS



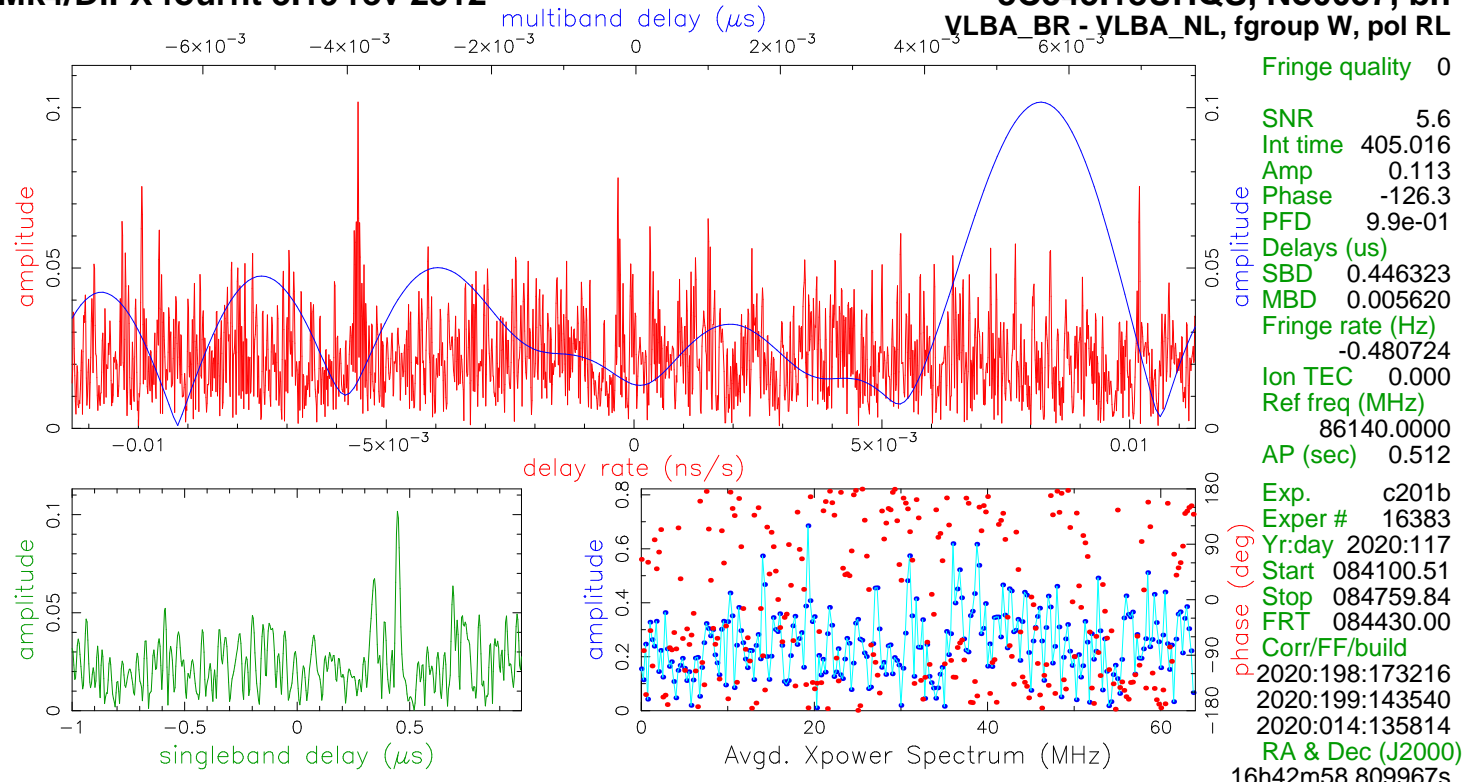
Fringe quality 0
SNR 6.5
Int time 405.017
Amp 0.118
Phase 30.2
PFD 2.1e-02
Delays (us)
SBD 0.558013
MBD 0.006037
Fringe rate (Hz) 0.027548
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.51
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143536
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

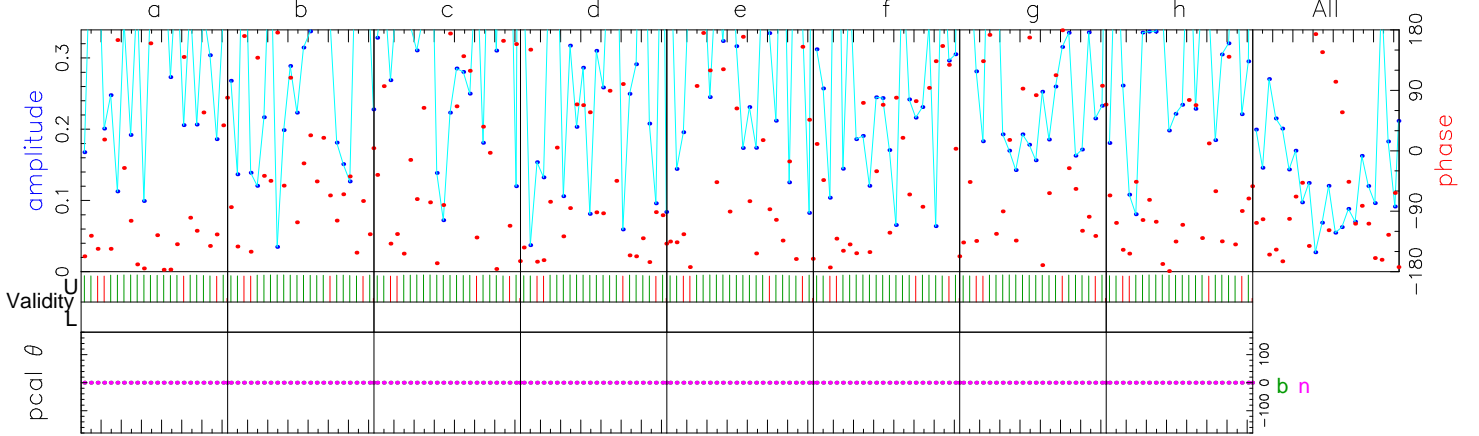


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	-1.22166296503E+03				-1.22221587712E+03				6.03708E-03	+/- 1.7E-04
Sband delay (usec)	-1.22165786437E+03				-3.3698444E+01				5.58013E-01	+/- 1.3E-03
Phase delay (usec)	-1.22221587614E+03				-3.7599999E-07				9.75175E-07	+/- 5.7E-07
Delay rate (us/s)	3.86254592421E-01				3.86254272619E-01				3.19801E-07	+/- 2.3E-09
Total phase (deg)			-205.5		1.19927913740E-05				30.2	+/- 17.6
	RMS	Theor.	Amplitude	0.118 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	46.9	42.2	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	70.4	73.7	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	28.0	24.9	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	37.1	43.5	Inc. frq. avg.	0.119	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 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) -2850.211 1361.938 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.47.18UHQS



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

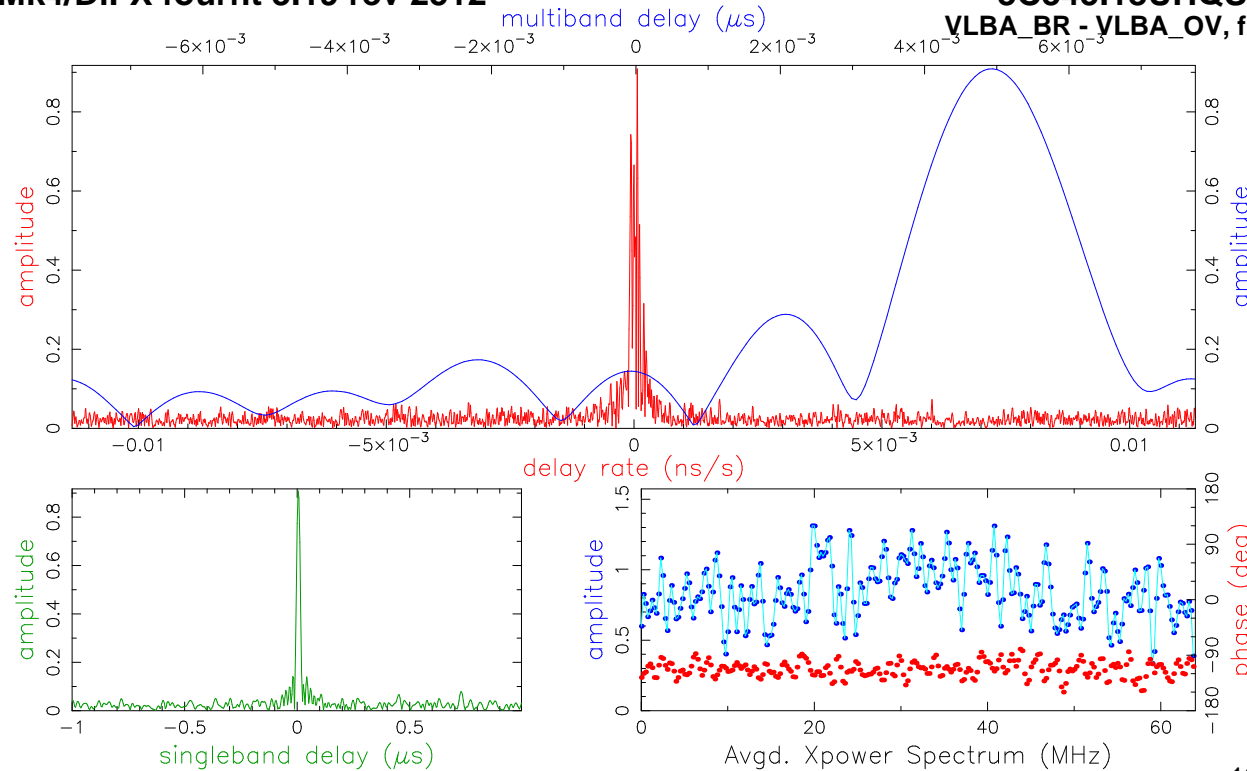


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-148.8	-75.2	-141.1	-104.3	-150.8	-142.0	-139.3	-116.3	Phase	-126.3
	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.2	Ampl.	0.1
	257.2	276.1	243.3	192.1	46.6	58.8	132.1	234.0	Sbd box	371.3
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	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	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.22177275680E+03		Apriori delay (usec)	-1.22221587712E+03	Resid mbdelay (usec)	5.62032E-03	+/-	1.9E-04		
Sband delay (usec)	-1.22176955412E+03		Apriori clock (usec)	-3.3698444E+01	Resid sbdelay (usec)	4.46323E-01	+/-	1.5E-03		
Phase delay (usec)	-1.22221588119E+03		Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	-4.07170E-06	+/-	6.6E-07		
Delay rate (us/s)	3.86248691889E-01		Apriori rate (us/s)	3.86254272619E-01	Resid rate (us/s)	-5.58073E-06	+/-	2.7E-09		
Total phase (deg)		-2.0	Apriori accel (us/s/s)	1.19927913740E-05	Resid phase (deg)	-126.3	+/-	20.4		

	RMS	Theor.	Amplitude	0.113 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	63.7	48.8	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	86.2	85.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	28.7	28.8	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	39.3	50.3	Inc. frq. avg.	0.111	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	

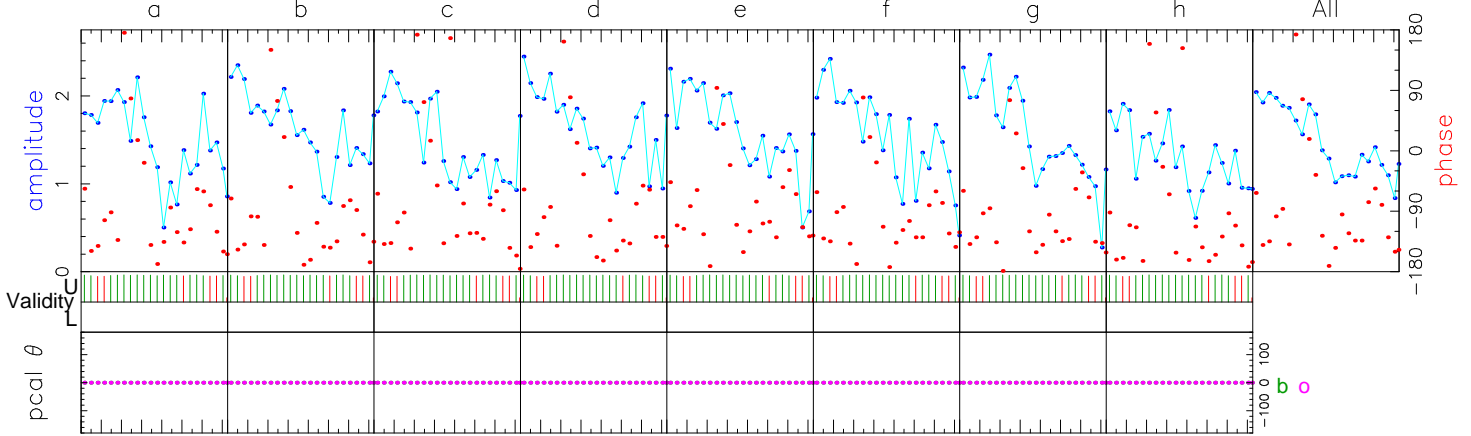
b: az 104.8 el 69.8 pa -57.1 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) -2850.211 1361.938 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bn..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bn.W.67.18UHQS



Fringe quality 4
 SNR 50.5
 Int time 404.880
 Amp 0.917
 Phase -110.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.005172
 MBD 0.004964
 Fringe rate (Hz) 0.005600
 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

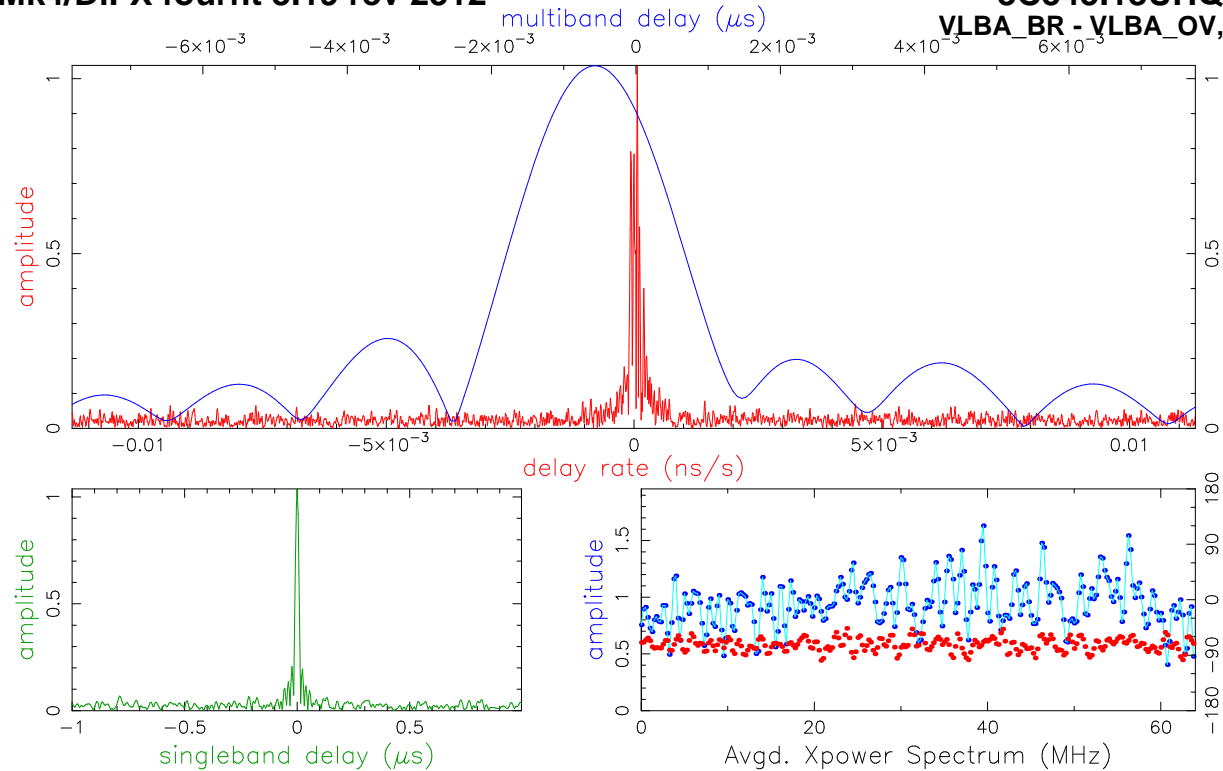


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.0	-119.3	-113.8	-109.4	-89.6	-107.9	-102.0	-137.6	Phase	-110.7
	0.9	1.0	0.9	1.0	1.0	1.0	0.9	0.9	Ampl.	0.9
	258.0	258.3	258.6	258.4	258.3	258.2	258.1	258.0	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
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	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -1.67602593357E+02 Apriori delay (usec) -1.67607556883E+02 Resid mbdelay (usec) 4.96353E-03 +/- 2.2E-05
 Sband delay (usec) -1.67602384883E+02 Apriori clock (usec) -2.1497892E+01 Resid sbdelay (usec) 5.17200E-03 +/- 1.7E-04
 Phase delay (usec) -1.67607560453E+02 Apriori clockrate (us/s) -2.4300001E-07 Resid phdelay (usec) -3.56931E-06 +/- 7.3E-08
 Delay rate (us/s) -4.26899491647E-02 Apriori rate (us/s) -4.26900141735E-02 Resid rate (us/s) 6.50087E-08 +/- 3.0E-10
 Total phase (deg) -92.7 Apriori accel (us/s/s) 1.08550809055E-05 Resid phase (deg) -110.7 +/- 2.3

RMS Theor. Amplitude 0.917 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.1 5.4 Search (2048X32) 0.901 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 74.7 9.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 15.0 3.2 Inc. seg. avg. 1.483 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 5.6 5.6 Inc. frq. avg. 0.930 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 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 343.620 1655.575 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.14.18UHQS

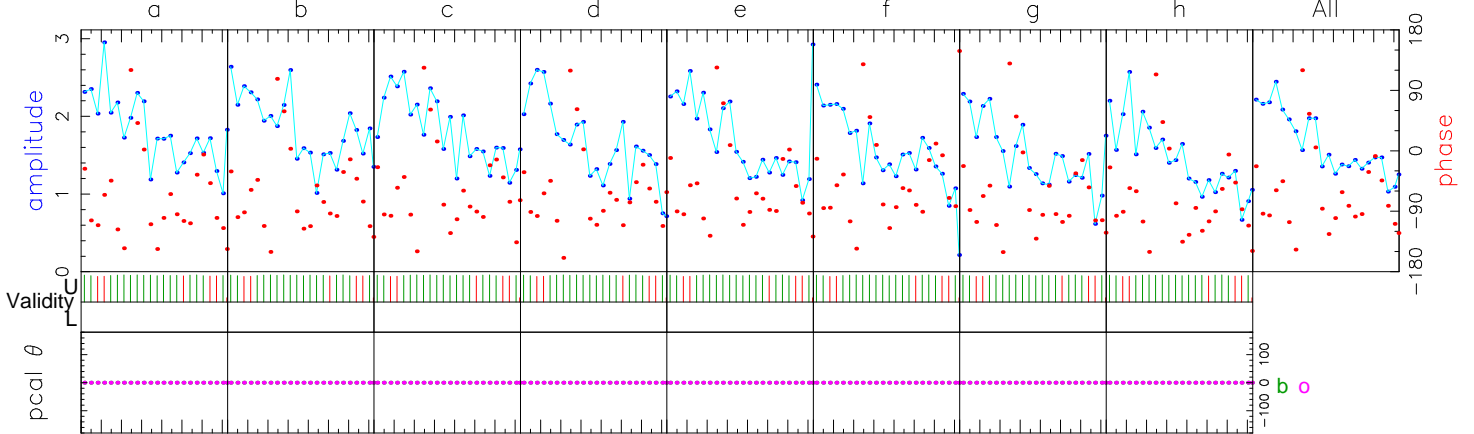


Fringe quality 5

SNR 57.1
Int time 404.877
Amp 1.038
Phase -70.6
PFD 0.0e+00
Delays (us)
SBD -0.000411
MBD -0.000578
Fringe rate (Hz) 0.005592
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

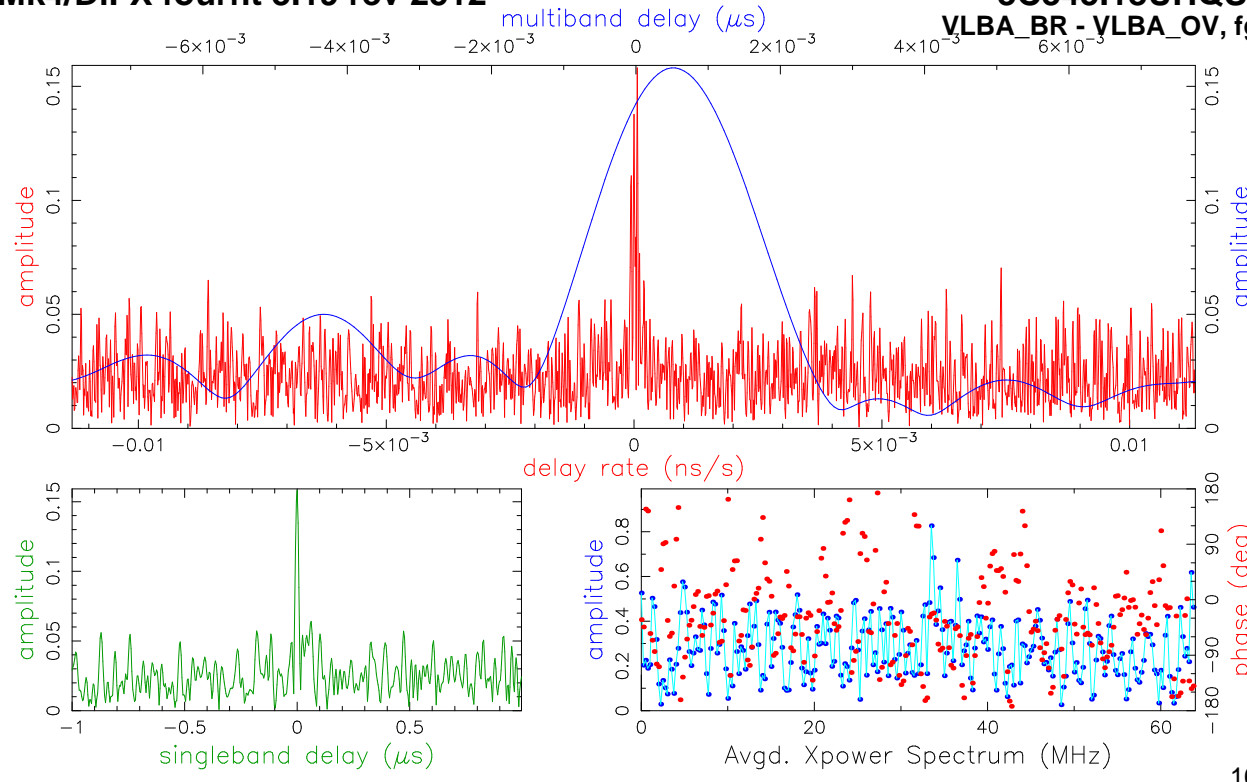
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143533
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

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
	-78.0	-68.7	-70.6	-71.8	-65.3	-58.2	-74.4	-78.6	Phase	-70.6
	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	Ampl.	1.0
	256.8	256.8	256.9	256.9	257.2	256.8	256.9	256.9	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	
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	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.67608134888E+02		Apriori delay (usec)		-1.67607556883E+02		Resid mbdelay (usec)		-5.78005E-04	+/- 1.9E-05
Sband delay (usec)	-1.67607968133E+02		Apriori clock (usec)		-2.1497892E+01		Resid sbdelay (usec)		-4.11250E-04	+/- 1.5E-04
Phase delay (usec)	-1.67607559159E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-2.27555E-06	+/- 6.5E-08
Delay rate (us/s)	-4.26899492505E-02		Apriori rate (us/s)		-4.26900141735E-02		Resid rate (us/s)		6.49230E-08	+/- 2.7E-10
Total phase (deg)			Apriori accel (us/s/s)		1.08550809055E-05		Resid phase (deg)		-70.6	+/- 2.0

ph/seg (deg) 58.5 4.8 Search (2048X32) 1.025 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.4 8.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.3 2.8 Inc. seg. avg. 1.649 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.8 5.0 Inc. frq. avg. 1.042 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 104.8 el 69.8 pa -57.1 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 343.620 1655.575 ion window (TEC) 0.00 0.00 simultaneous interpolator

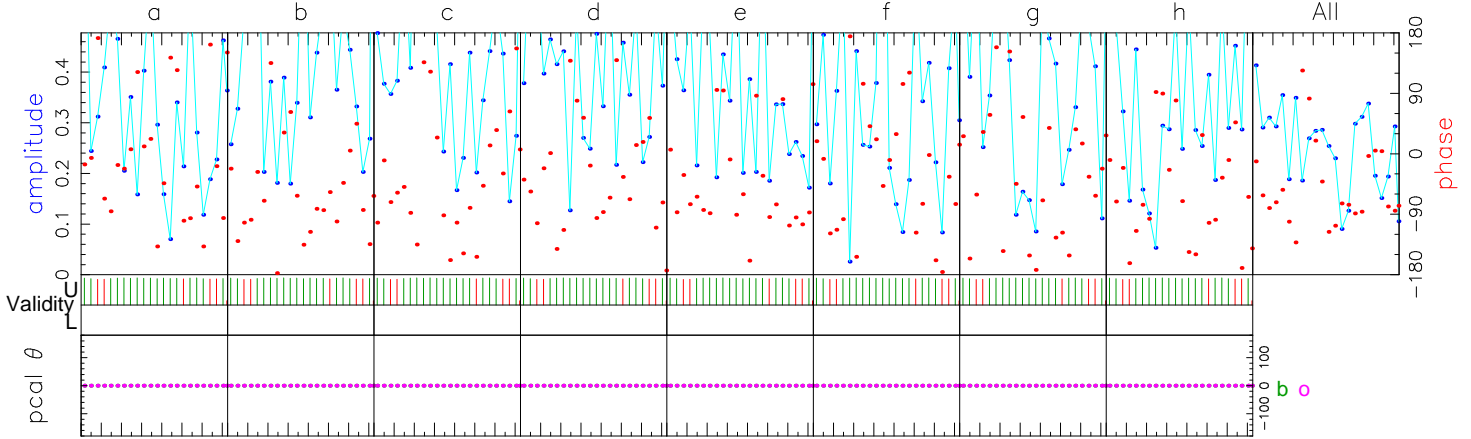


Fringe quality 9

SNR 8.8
Int time 404.878
Amp 0.159
Phase -61.0
PFD 7.3e-10
Delays (us)
SBD -0.001054
MBD 0.000484
Fringe rate (Hz) 0.005435
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

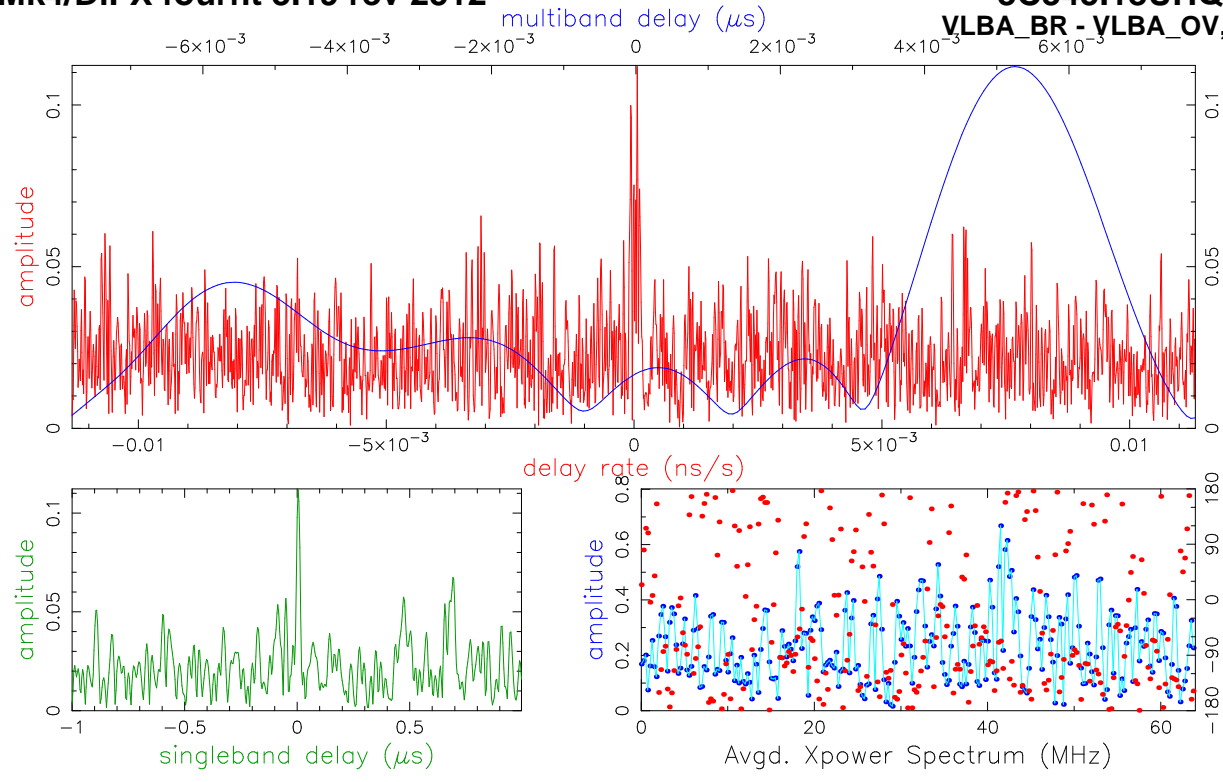
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143537
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
	-44.6	-73.9	-75.1	-55.5	-64.9	-56.2	-47.2	-60.1	Phase	-61.0
	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	Ampl.	0.2
	66.1	257.3	303.9	256.8	256.9	131.4	84.6	283.7	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	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.67607073138E+02		Apriori delay (usec)		-1.67607556883E+02		Resid mbdelay (usec)		4.83745E-04	+/- 1.2E-04
Sband delay (usec)	-1.67608610883E+02		Apriori clock (usec)		-2.1497892E+01		Resid sbdelay (usec)		-1.05400E-03	+/- 9.8E-04
Phase delay (usec)	-1.67607558852E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-1.96844E-06	+/- 4.2E-07
Delay rate (us/s)	-4.26899510729E-02		Apriori rate (us/s)		-4.26900141735E-02		Resid rate (us/s)		6.31006E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.08550809055E-05		Resid phase (deg)		-61.0	+/- 13.1

ph/seg (deg) 63.1 31.4 Search (2048X32) 0.152 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 80.0 54.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.2 18.5 Inc. seg. avg. 0.225 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.8 32.3 Inc. frq. avg. 0.153 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 104.8 el 69.8 pa -57.1 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 343.620 1655.575 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.55.18UHQS

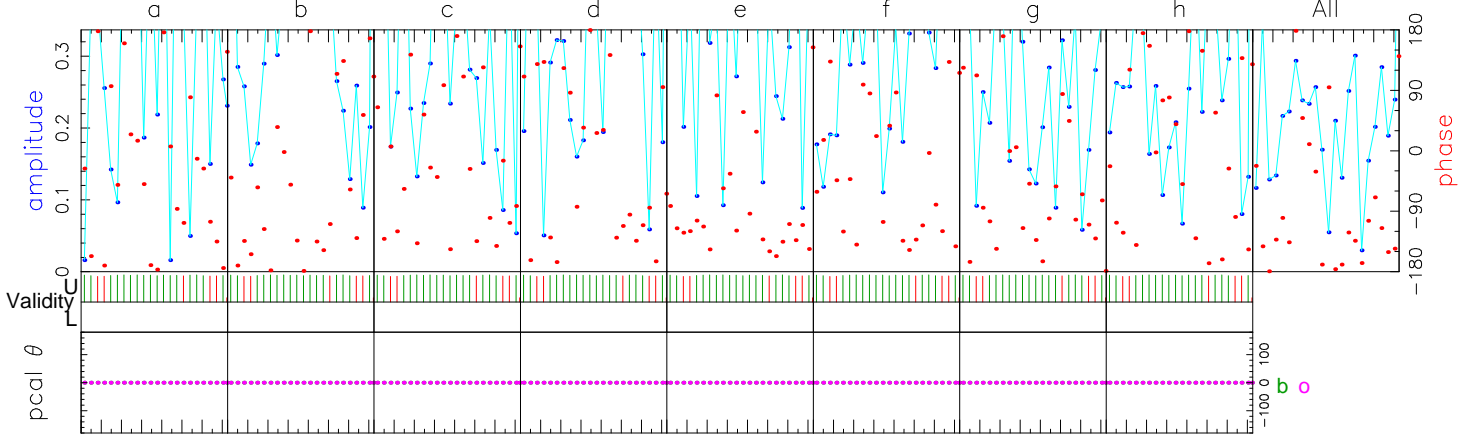


Fringe quality 0

SNR 6.2
Int time 404.879
Amp 0.112
Phase -131.9
PFD 1.6e-01
Delays (us)
SBD 0.004690
MBD 0.005282
Fringe rate (Hz) 0.005822
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

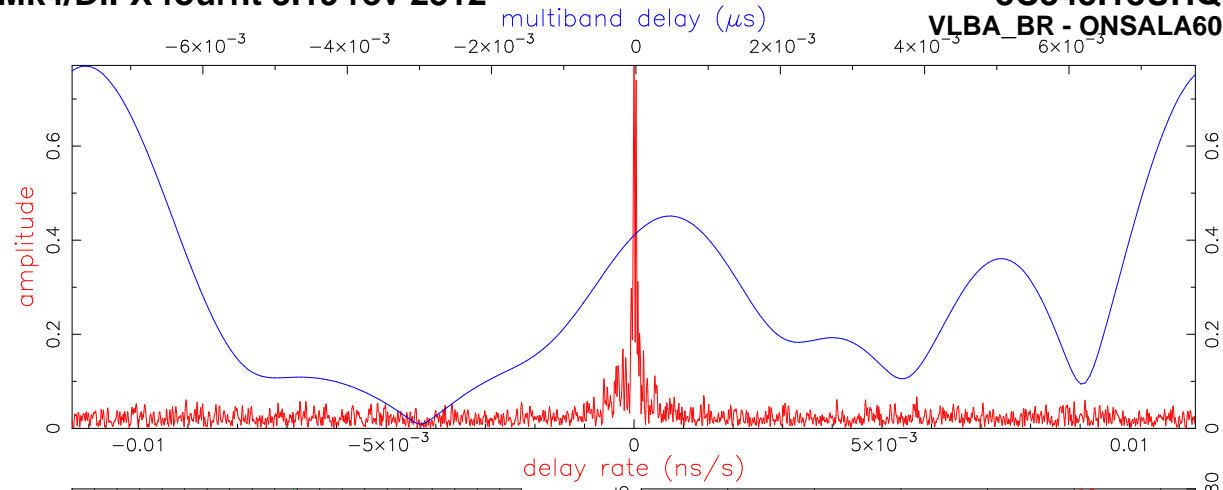


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-135.4	-131.7	-98.7	-162.9	-114.7	-128.1	-121.8	-157.8	Phase	-131.9
	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	232.8	430.3	53.9	411.7	258.0	124.6	210.6	243.7	Sbd box	258.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	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	Manl 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	
									Tracks	
Group delay (usec)(sbd)	-1.67602274482E+02		Apriori delay (usec)		-1.67607556883E+02		Resid mbdelay (usec)		5.28240E-03	+/- 1.8E-04
Sband delay (usec)	-1.67602867133E+02		Apriori clock (usec)		-2.1497892E+01		Resid sbdelay (usec)		4.68975E-03	+/- 1.4E-03
Phase delay (usec)	-1.67607561138E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-4.25472E-06	+/- 6.0E-07
Delay rate (us/s)	-4.26899465849E-02		Apriori rate (us/s)		-4.26900141735E-02		Resid rate (us/s)		6.75886E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.08550809055E-05		Resid phase (deg)		-131.9	+/- 18.6

	RMS	Theor.	Amplitude	0.112 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	71.0	44.5	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	109.6	77.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	23.0	26.2	Inc. seg. avg.	0.156	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	39.7	45.8	Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 104.8 el 69.8 pa -57.1 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 343.620 1655.575 simultaneous interpolator

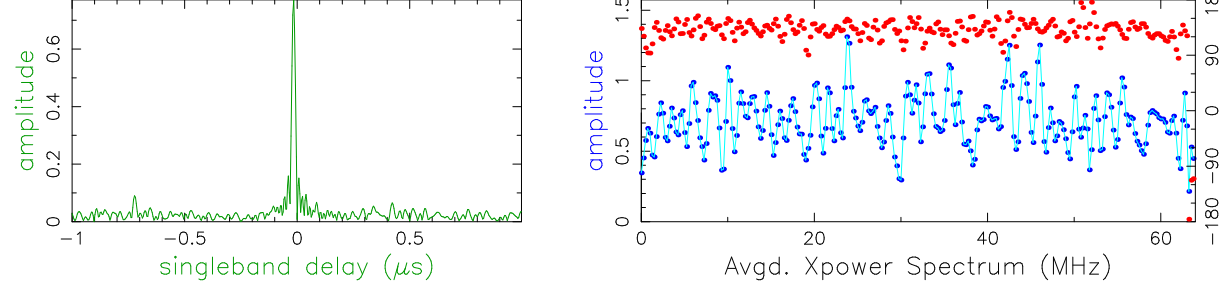
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bo..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bo.W.74.18UHQS



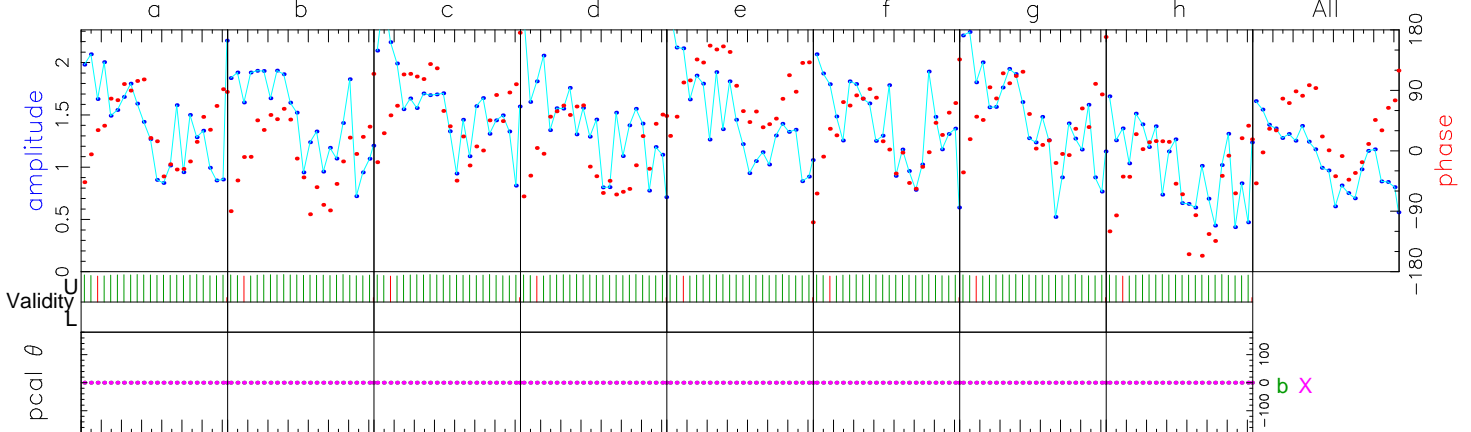
Fringe quality 4

SNR 42.7
 Int time 409.579
 Amp 0.771
 Phase 34.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.016181
 MBD -0.007642
 Fringe rate (Hz)
 -0.000140
 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"

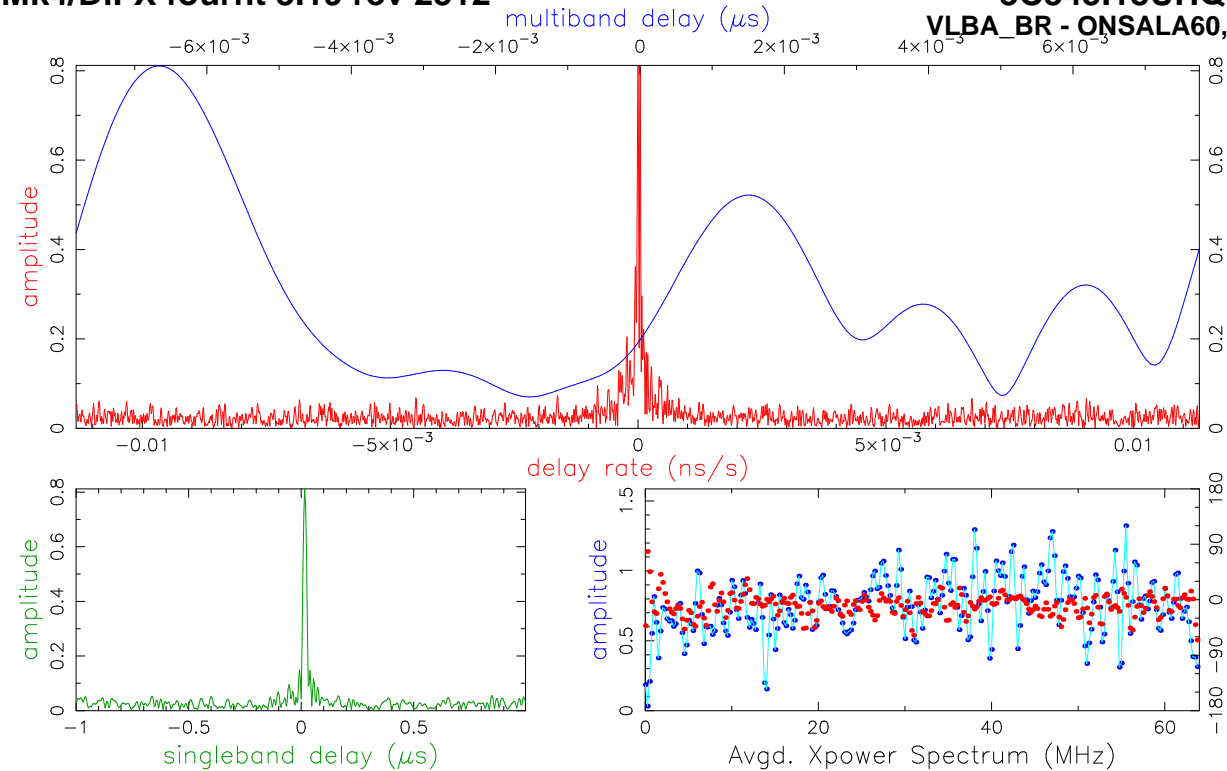


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	35.5	-1.5	59.2	-0.5	95.9	27.9	51.2	-32.4		Phase 34.0
	0.9	1.0	1.1	0.9	1.1	1.0	1.0	0.6		Ampl. 0.9
	252.3	252.3	252.7	252.2	252.4	252.4	251.8	250.4		Sbd box 252.9
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	1.11391245112E+04		Apriori delay (usec)		1.11391477785E+04		Resid mbdelay (usec)		-7.64225E-03	+/- 2.5E-05
Sband delay (usec)	1.11391315977E+04		Apriori clock (usec)		-4.2173496E+01		Resid sbdelay (usec)		-1.61807E-02	+/- 2.0E-04
Phase delay (usec)	1.11391477796E+04		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		1.09588E-06	+/- 8.7E-08
Delay rate (us/s)	9.48888310431E-01		Apriori rate (us/s)		9.48888312054E-01		Resid rate (us/s)		-1.62260E-09	+/- 3.6E-10
Total phase (deg)	264.0		Apriori accel (us/s/s)		-6.65255597690E-05		Resid phase (deg)		34.0	+/- 2.7

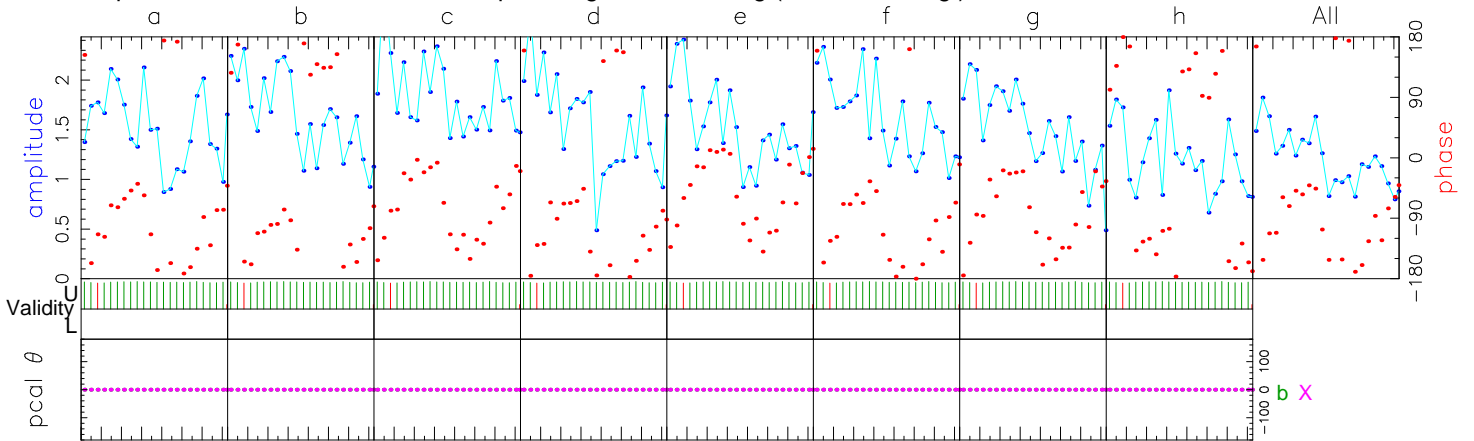
ph/seg (deg) 47.6 6.4 Search (2048X32) 0.755 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.2 11.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.1 3.8 Inc. seg. avg. 1.095 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.8 6.6 Inc. frq. avg. 0.942 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 104.8 el 69.8 pa -57.1 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -7213.523 -4909.126 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.13.18UHQS



Fringe quality 4

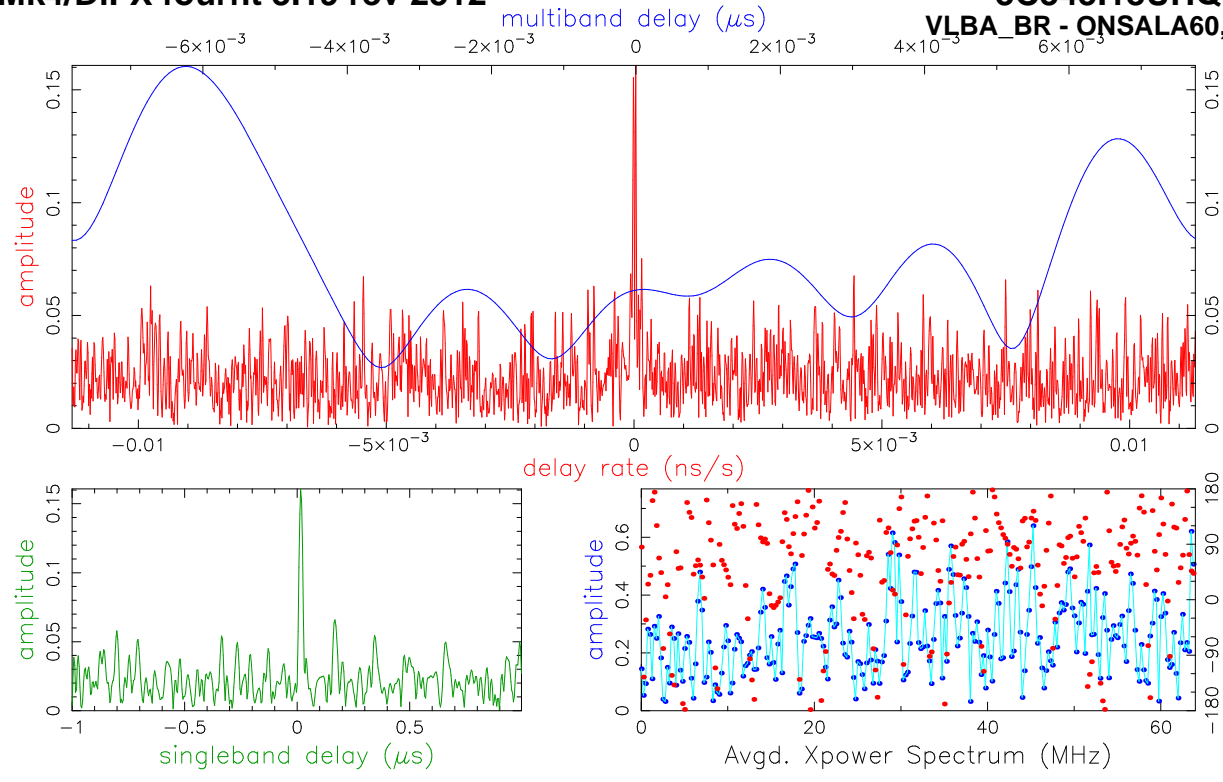
SNR 44.9
 Int time 409.577
 Amp 0.812
 Phase -107.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.016098
 MBD -0.006645
 Fringe rate (Hz)
 -0.000213
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 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
	-109.6	-151.7	-71.6	-128.0	-52.0	-114.2	-79.2	-178.8	Phase	-107.3
	1.0	1.0	1.3	1.0	1.0	1.1	1.0	0.8	Ampl.	1.0
	260.2	261.0	261.2	260.6	260.4	260.7	260.3	259.4	Sbd box	261.1
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	
									Tracks	
Group delay (usec)(sbd)	1.11391567584E+04		Apriori delay (usec)		1.11391477785E+04		Resid mbdelay (usec)		-6.64509E-03	+/- 2.4E-05
Sband delay (usec)	1.11391638765E+04		Apriori clock (usec)		-4.2173496E+01		Resid sbdelay (usec)		1.60980E-02	+/- 1.9E-04
Phase delay (usec)	1.11391477750E+04		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-3.45955E-06	+/- 8.2E-08
Delay rate (us/s)	9.48888309584E-01		Apriori rate (us/s)		9.48888312054E-01		Resid rate (us/s)		-2.47003E-09	+/- 3.4E-10
Total phase (deg)	122.8		Apriori accel (us/s/s)		-6.65255597690E-05		Resid phase (deg)		-107.3	+/- 2.6

ph/seg (deg) 50.0 6.1 Search (2048X32) 0.790 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.0 10.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.0 3.6 Inc. seg. avg. 1.218 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.6 6.3 Inc. frq. avg. 1.020 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 104.8 el 69.8 pa -57.1 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -7213.523 -4909.126 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.30.18UHQS

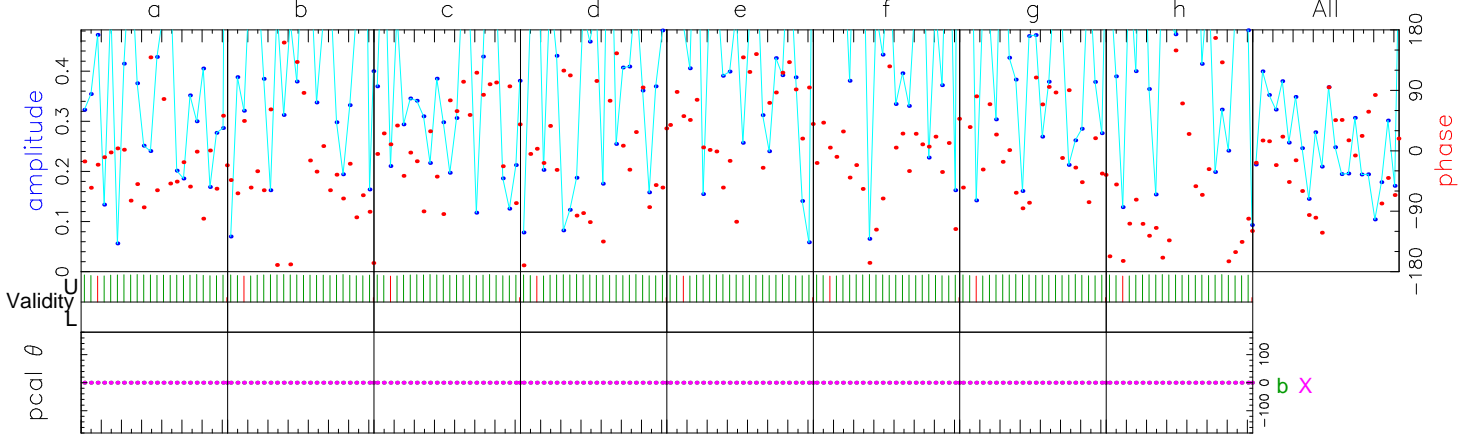


Fringe quality 9

SNR 8.9
 Int time 409.579
 Amp 0.161
 Phase -6.5
 PFD 2.1e-10
 Delays (us)
 SBD 0.016291
 MBD -0.006237
 Fringe rate (Hz)
 0.003168
 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"

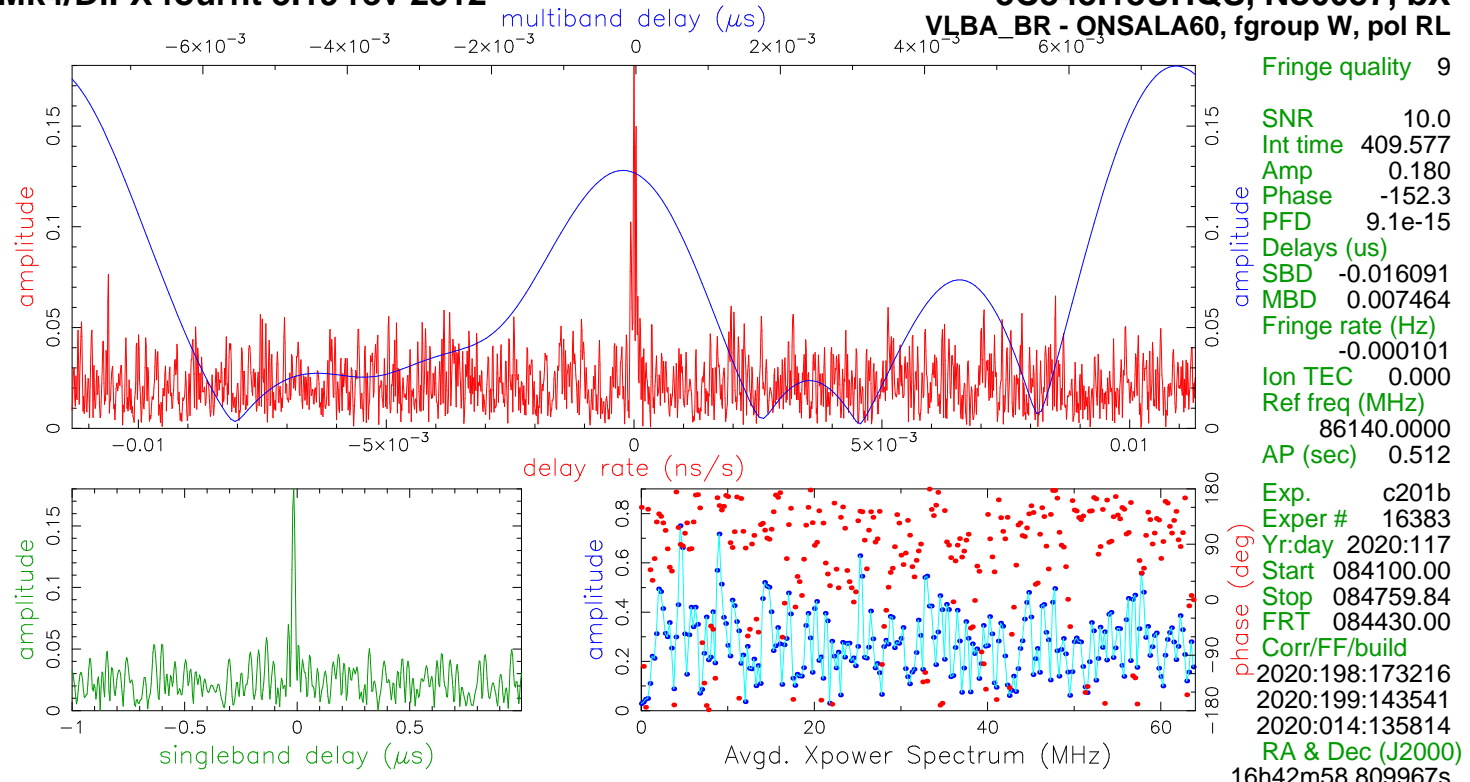
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



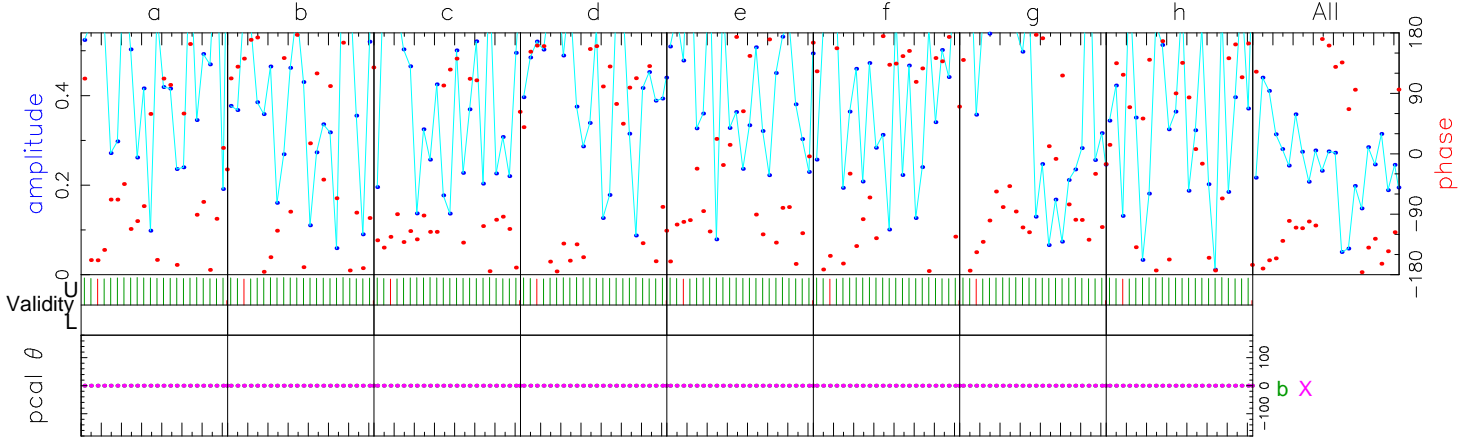
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-32.1	-50.6	38.9	3.7	63.5	-3.0	2.3	-115.0	Phase	-6.5
	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	Ampl.	0.2
	261.0	261.2	261.0	199.1	260.4	260.8	260.3	342.8	Sbd box	261.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.11391571666E+04		Apriori delay (usec)		1.11391477785E+04		Resid mbdelay (usec)		-6.23685E-03	+/- 1.2E-04
Sband delay (usec)	1.11391640692E+04		Apriori clock (usec)		-4.2173496E+01		Resid sbdelay (usec)		1.62908E-02	+/- 9.7E-04
Phase delay (usec)	1.11391477783E+04		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-2.08241E-07	+/- 4.2E-07
Delay rate (us/s)	9.48888348830E-01		Apriori rate (us/s)		9.48888312054E-01		Resid rate (us/s)		3.67763E-08	+/- 1.7E-09
Total phase (deg)	223.6		Apriori accel (us/s/s)		-6.65255597690E-05		Resid phase (deg)		-6.5	+/- 12.9

ph/seg (deg) 58.5 30.9 Amplitude 0.161 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 80.0 53.9 Search (2048X32) 0.155 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 59.9 18.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 58.5 31.8 Inc. seg. avg. 0.225 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.222 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 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -7213.523 -4909.126 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.49.18UHQS



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

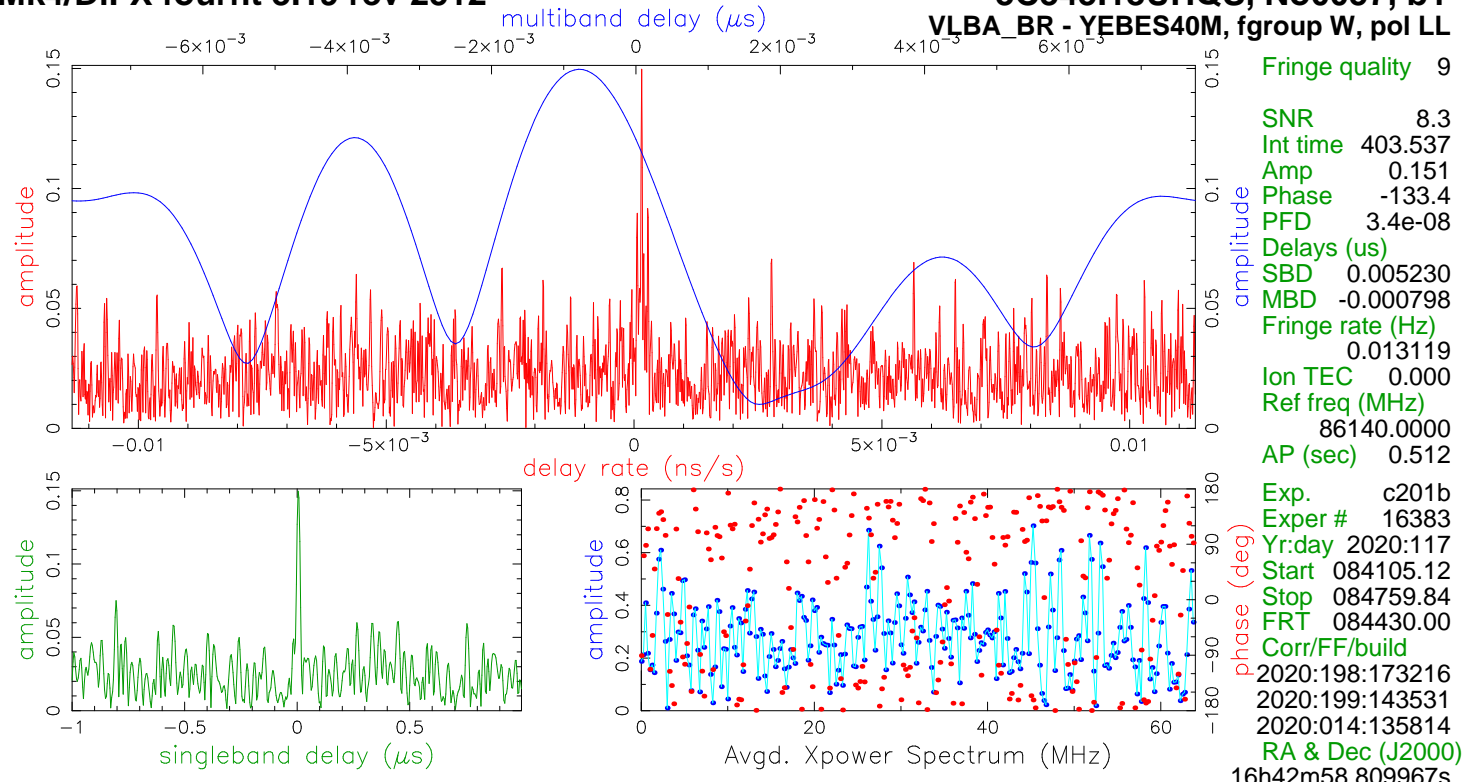


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.7	179.1	-141.7	169.0	-102.7	-179.0	-106.4	138.1	Phase	-152.3
	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.1	Ampl.	0.2
	252.3	252.4	252.7	251.8	251.9	252.8	252.5	251.3	Sbd box	252.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.11391239922E+04		Apriori delay (usec)	1.11391477785E+04	Resid mbdelay (usec)	7.46375E-03	+/-	1.1E-04		
Sband delay (usec)	1.11391316870E+04		Apriori clock (usec)	-4.2173496E+01	Resid sbdelay (usec)	-1.60915E-02	+/-	8.6E-04		
Phase delay (usec)	1.11391477736E+04		Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-4.91280E-06	+/-	3.7E-07		
Delay rate (us/s)	9.48888310878E-01		Apriori rate (us/s)	9.48888312054E-01	Resid rate (us/s)	-1.17621E-09	+/-	1.5E-09		
Total phase (deg)		77.7	Apriori accel (us/s/s)	-6.65255597690E-05	Resid phase (deg)	-152.3	+/-	11.5		

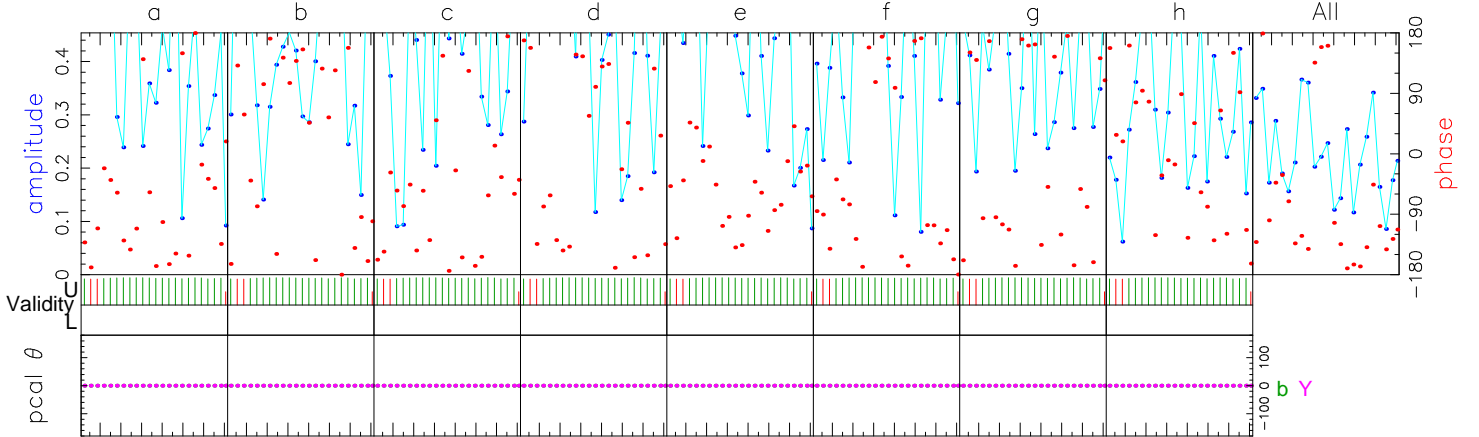
	RMS	Theor.	Amplitude	0.180 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.9	27.6	Search (2048X32)	0.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	63.9	48.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	46.5	16.3	Inc. seg. avg.	0.225	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	36.0	28.4	Inc. frq. avg.	0.219	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 104.8 el 69.8 pa -57.1 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -7213.523 -4909.126 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.72.18UHQS



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

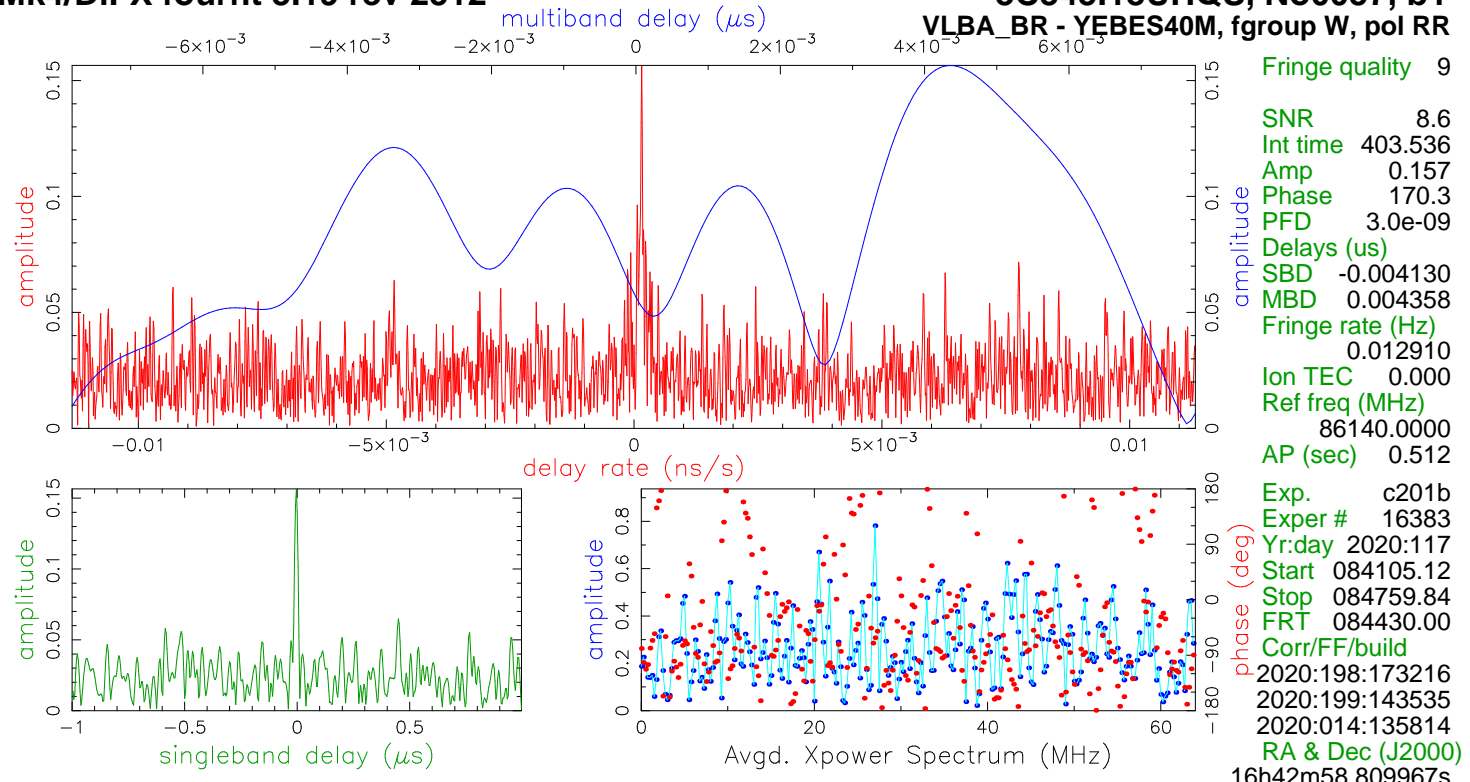


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.5	154.8	-118.3	-158.1	-55.6	-146.1	-150.0	67.7	Phase	-133.4
	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.1	Ampl.	0.2
	257.6	257.9	258.6	404.7	257.6	258.4	257.5	34.8	Sbd box	258.3
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.16309144554E+04		Apriori delay (usec)	1.16309152531E+04	Resid mbdelay (usec)	-7.97721E-04	+/-	1.3E-04		
Sband delay (usec)	1.16309204831E+04		Apriori clock (usec)	-1.3380541E+01	Resid sbdelay (usec)	5.23000E-03	+/-	1.0E-03		
Phase delay (usec)	1.16309152488E+04		Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	-4.30065E-06	+/-	4.4E-07		
Delay rate (us/s)	1.24009364763E+00		Apriori rate (us/s)	1.24009349534E+00	Resid rate (us/s)	1.52297E-07	+/-	1.9E-09		
Total phase (deg)		190.7	Apriori accel (us/s/s)	-5.50675932710E-05	Resid phase (deg)	-133.4	+/-	13.8		

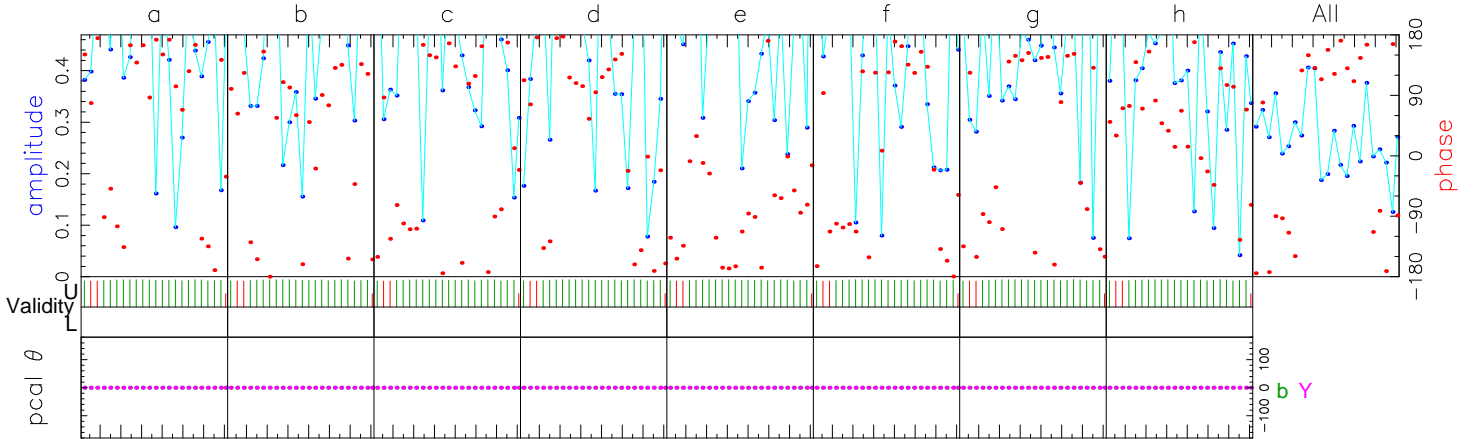
	RMS	Theor.	Amplitude	0.151 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	50.2	33.1	Search (2048X32)	0.145	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	73.5	57.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	79.6	19.5	Inc. seg. avg.	0.194	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	69.1	34.0	Inc. frq. avg.	0.207	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 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 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.25.18UHQs



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

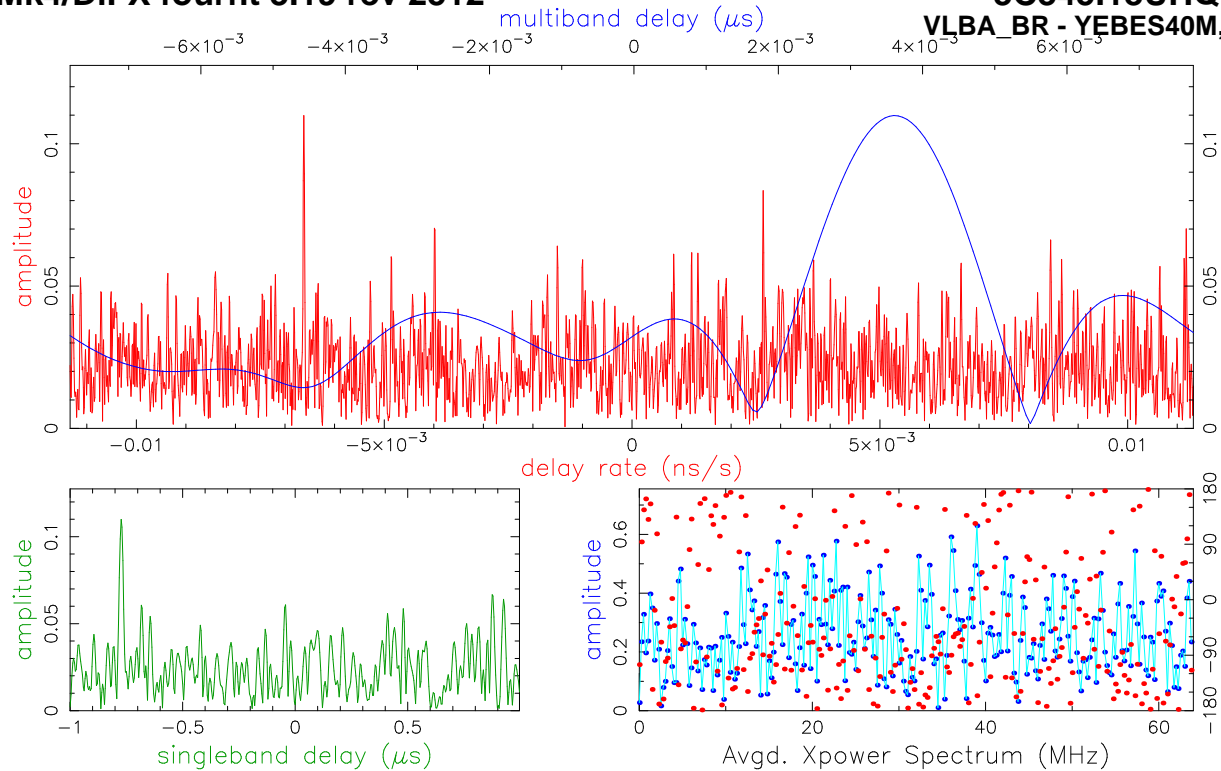


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.6	116.3	-160.1	151.5	-101.5	-176.0	-163.4	60.0	Phase	170.3
	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	255.9	255.3	256.5	255.1	254.8	254.9	254.6	253.7	Sbd box	255.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	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)		1.16309039857E+04		Apriori delay (usec)	1.16309152531E+04		Resid mbdelay (usec)	4.35762E-03	+/-	1.3E-04
Sband delay (usec)		1.16309111236E+04		Apriori clock (usec)	-1.3380541E+01		Resid sbdelay (usec)	-4.12950E-03	+/-	1.0E-03
Phase delay (usec)		1.16309152586E+04		Apriori clockrate (us/s)	-2.6200000E-07		Resid phdelay (usec)	5.49194E-06	+/-	4.3E-07
Delay rate (us/s)		1.24009364520E+00		Apriori rate (us/s)	1.24009349534E+00		Resid rate (us/s)	1.49867E-07	+/-	1.8E-09
Total phase (deg)		134.4		Apriori accel (us/s/s)	-5.50675932710E-05		Resid phase (deg)	170.3	+/-	13.3

	RMS	Theor.	Amplitude	0.157 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	57.0	32.0	Search (2048X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	84.8	55.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	64.5	18.8	Inc. seg. avg.	0.233	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	61.6	32.9	Inc. frq. avg.	0.238	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 104.8 el 69.8 pa -57.1 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 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.42.18UHQS

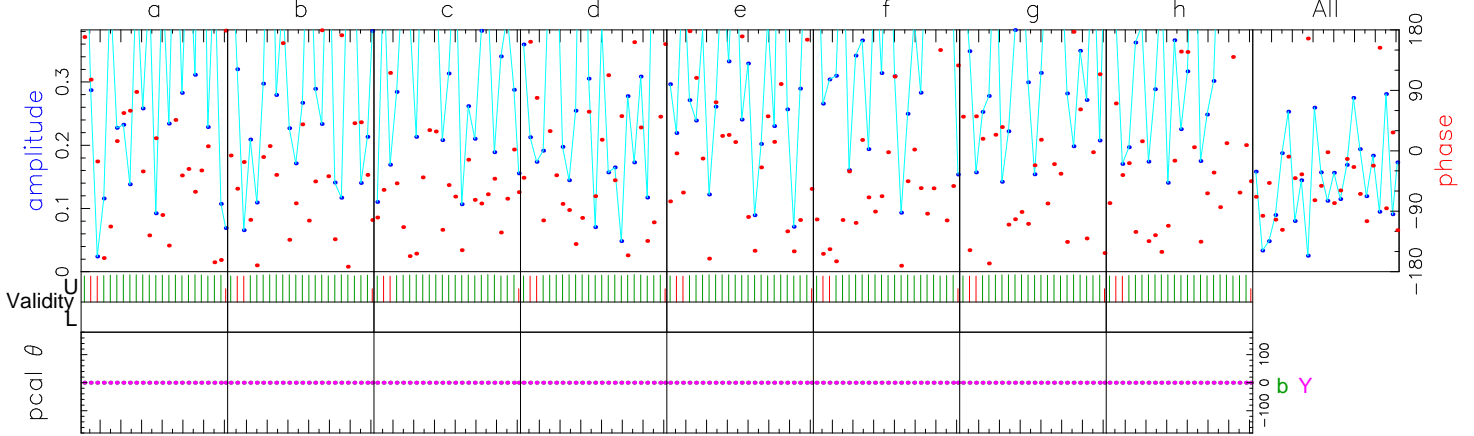


Fringe quality 0

SNR 6.1
 Int time 403.537
 Amp 0.128
 Phase -56.0
 PFD 3.0e-01
 Delays (us)
 SBD -0.772524
 MBD 0.003626
 Fringe rate (Hz)
 -0.571122
 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
 2020:199:143539
 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

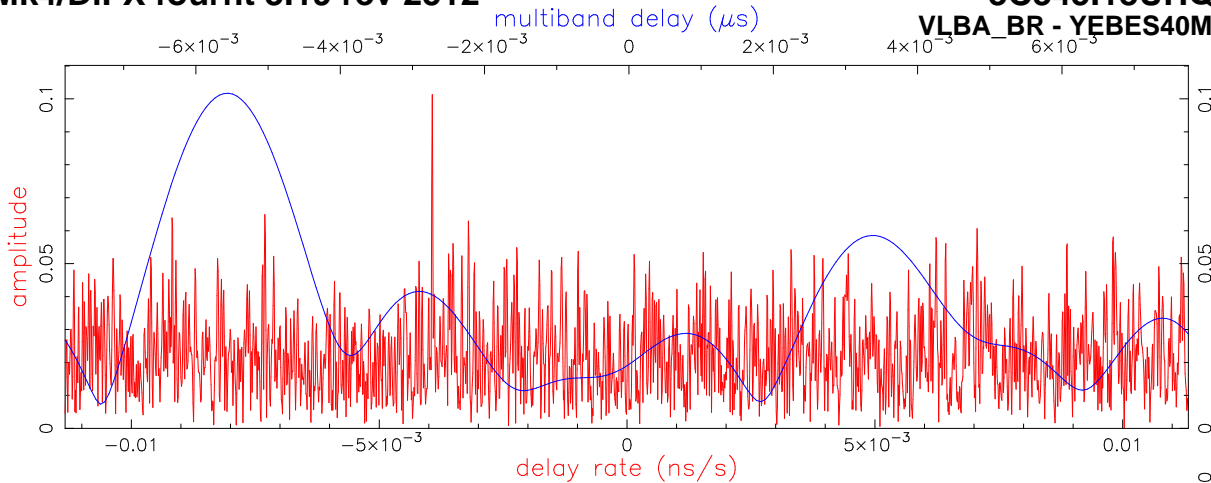


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.6	-48.0	-63.3	-58.7	11.4	-81.0	-44.6	-50.4	Phase	-56.0
	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	281.8	116.9	59.5	51.5	452.2	60.1	388.8	351.6	Sbd box	59.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.16301376289E+04		Apriori delay (usec)		1.16309152531E+04		Resid mbdelay (usec)		3.62579E-03	+/- 1.8E-04
Sband delay (usec)	1.16301427286E+04		Apriori clock (usec)		-1.3380541E+01		Resid sbdelay (usec)		-7.72524E-01	+/- 1.4E-03
Phase delay (usec)	1.16309152513E+04		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-1.80470E-06	+/- 6.1E-07
Delay rate (us/s)	1.24008686518E+00		Apriori rate (us/s)		1.24009349534E+00		Resid rate (us/s)		-6.63015E-06	+/- 2.5E-09
Total phase (deg)	268.1		Apriori accel (us/s/s)		-5.50675932710E-05		Resid phase (deg)		-56.0	+/- 18.9

	RMS	Theor.	Amplitude	0.128 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.6	45.3	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	73.8	79.1	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	30.3	26.7	Inc. seg. avg.	0.130	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	48.1	46.7	Inc. frq. avg.	0.123					

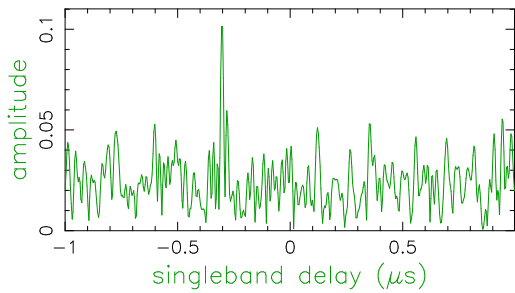
b: az 104.8 el 69.8 pa -57.1 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bY.W.61.18UHQS

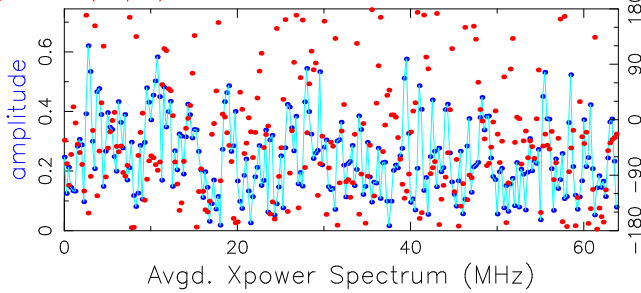


Fringe quality 0

SNR 5.8
 Int time 403.536
 Amp 0.110
 Phase 106.2
 PFD 8.8e-01
 Delays (us)
 SBD -0.302717
 MBD -0.005477
 Fringe rate (Hz)
 -0.338657
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

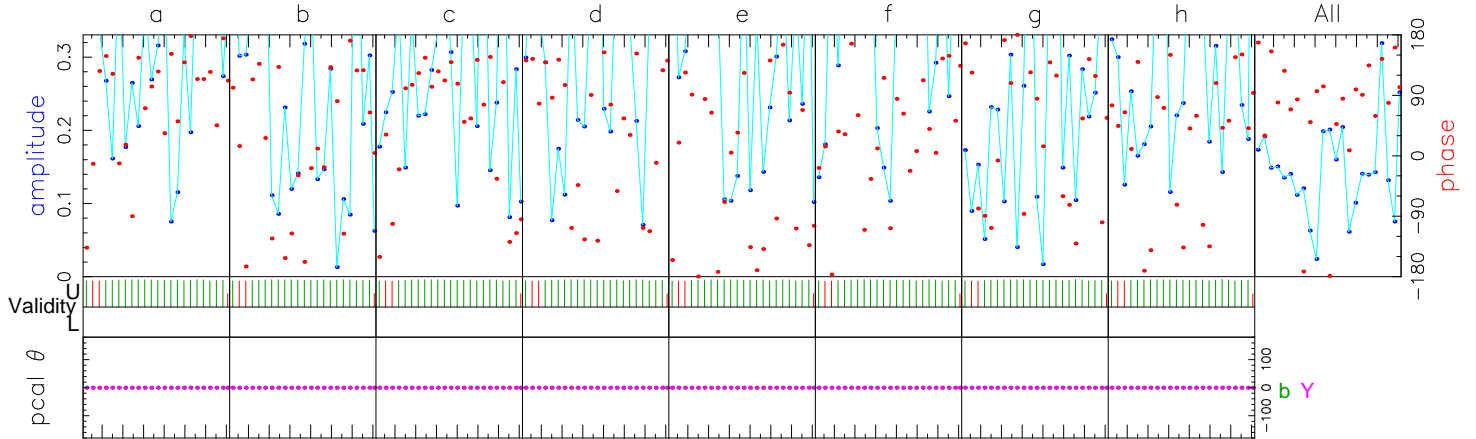


delay rate (ns/s)



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 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, 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
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.16306129012E+04	Apriori delay (usec)	1.16309152531E+04	Resid mbdelay (usec)	-5.47689E-03	+/-	1.9E-04
Sband delay (usec)	1.16306125361E+04	Apriori clock (usec)	-1.3380541E+01	Resid sbdelay (usec)	-3.02717E-01	+/-	1.5E-03
Phase delay (usec)	1.16309152565E+04	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	3.42425E-06	+/-	6.4E-07
Delay rate (us/s)	1.24008956386E+00	Apriori rate (us/s)	1.24009349534E+00	Resid rate (us/s)	-3.93147E-06	+/-	2.7E-09
Total phase (deg)	70.3	Apriori accel (us/s/s)	-5.50675932710E-05	Resid phase (deg)	106.2	+/-	19.9

ph/seg (deg)	48.4	RMS	47.7	Theor.	47.7	Amplitude	0.110 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.0		83.3		83.3	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	35.1		28.1		28.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.4		49.1		49.1	Inc. seg. avg.	0.113	Sample rate(MISamp/s): 128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite			

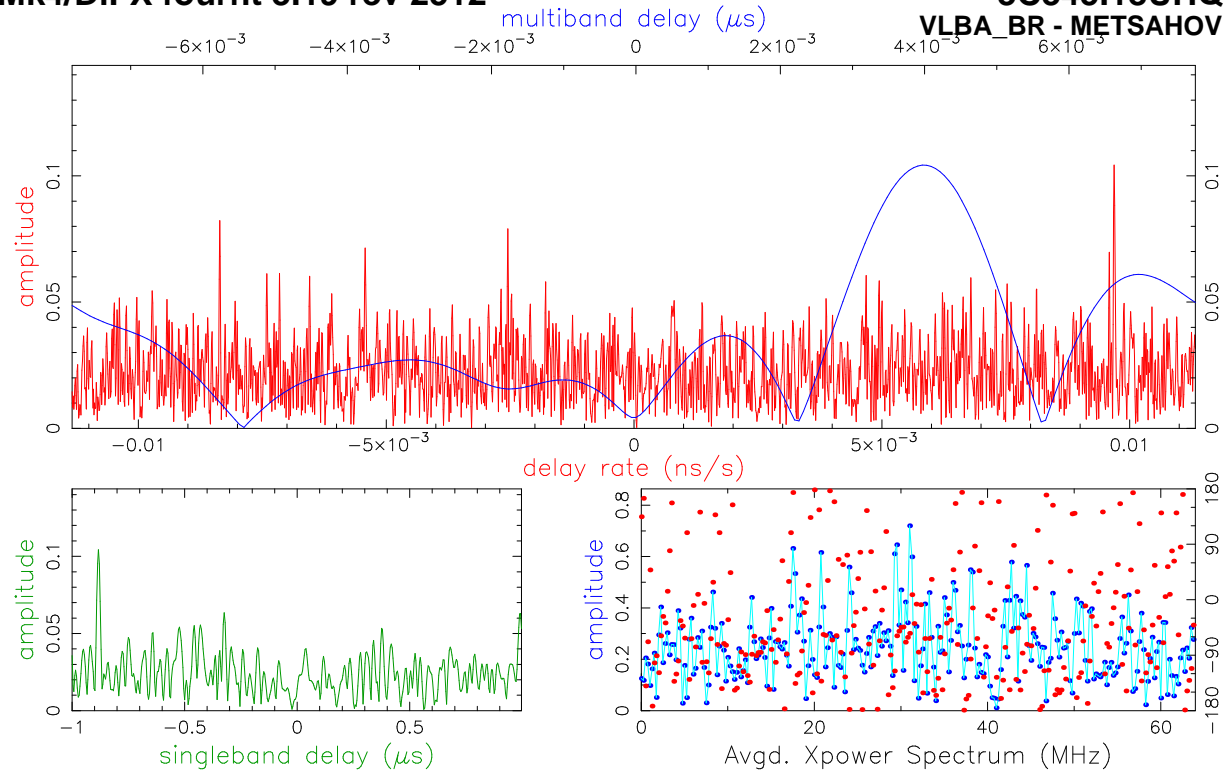
b: az 104.8 el 69.8 pa -57.1 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bY..18UHQs Output file: /Exps/c201b/v1/1234/No0057/bY.W.78.18UHQs

Mk4/DiFX fourfit 3.19 rev 2512

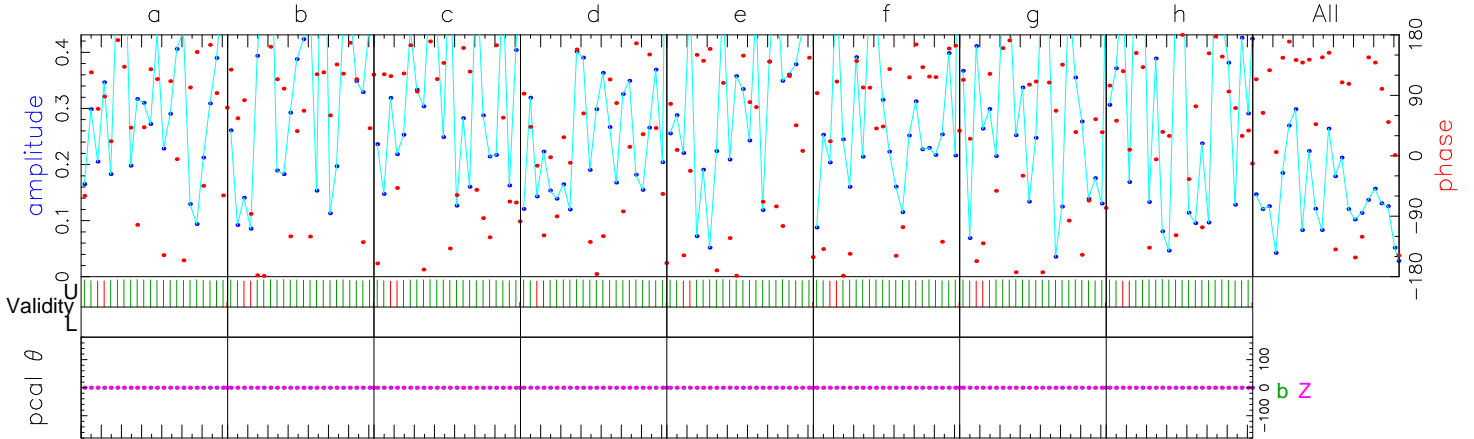
3C345.18UHQS, No0057, bZ

VLBA_BR - METSAHOV, fgroup W, pol LL



Fringe quality 0
 SNR 5.8
 Int time 409.223
 Amp 0.144
 Phase 136.9
 PFD 8.7e-01
 Delays (us)
 SBD -0.882851
 MBD 0.003986
 Fringe rate (Hz)
 0.835235
 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"

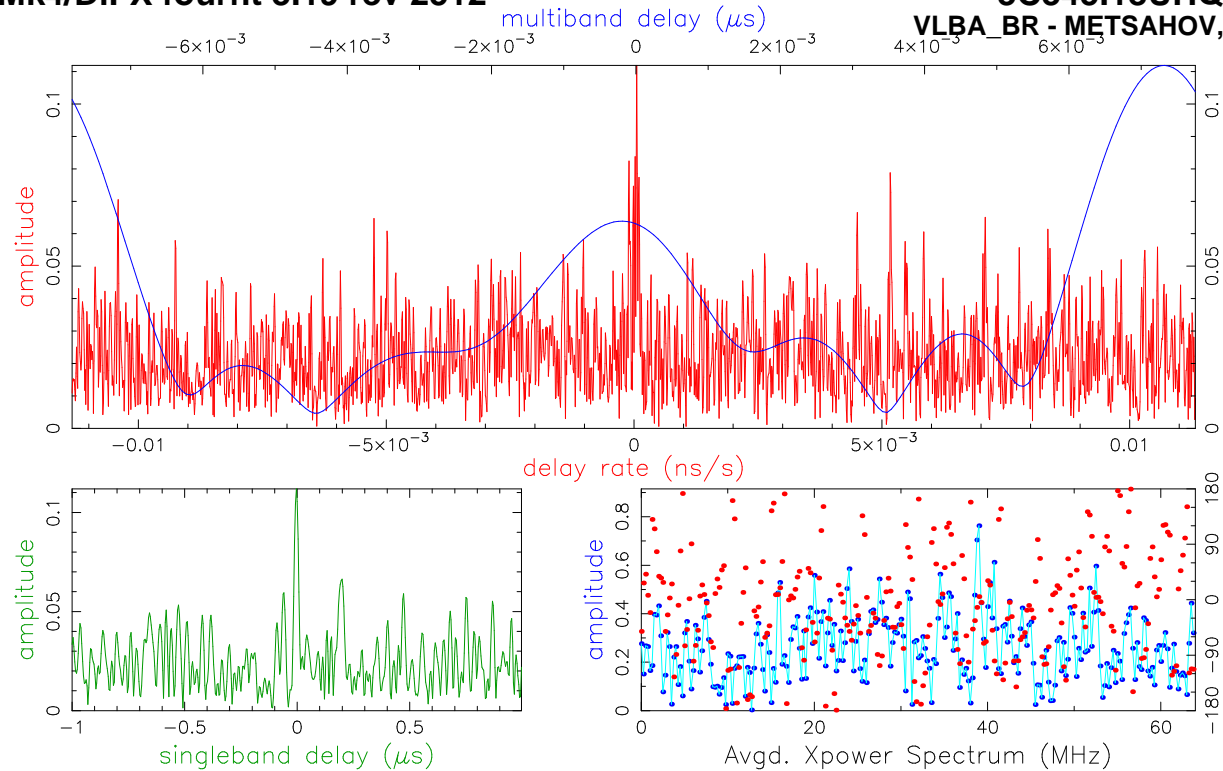
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	119.9	137.9	176.7	70.3	123.5	126.3	165.8	127.5	Phase	136.9
	0.1	0.3	0.1	0.0	0.1	0.2	0.1	0.2	Ampl.	0.1
	212.8	30.3	75.8	330.5	138.7	73.4	307.1	511.4	Sbd box	31.0
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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.22564639078E+04		Apriori delay (usec)		1.22573505466E+04		Resid mbdelay (usec)		3.98612E-03	+/- 1.9E-04
Sband delay (usec)	1.22564676951E+04		Apriori clock (usec)		-1.2900894E+00		Resid sbdelay (usec)		-8.82851E-01	+/- 1.5E-03
Phase delay (usec)	1.22573505511E+04		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		4.41391E-06	+/- 6.4E-07
Delay rate (us/s)	8.50067153958E-01		Apriori rate (us/s)		8.50057457705E-01		Resid rate (us/s)		9.69625E-06	+/- 2.6E-09
Total phase (deg)	168.5		Apriori accel (us/s/s)		-7.41015604470E-05		Resid phase (deg)		136.9	+/- 19.9

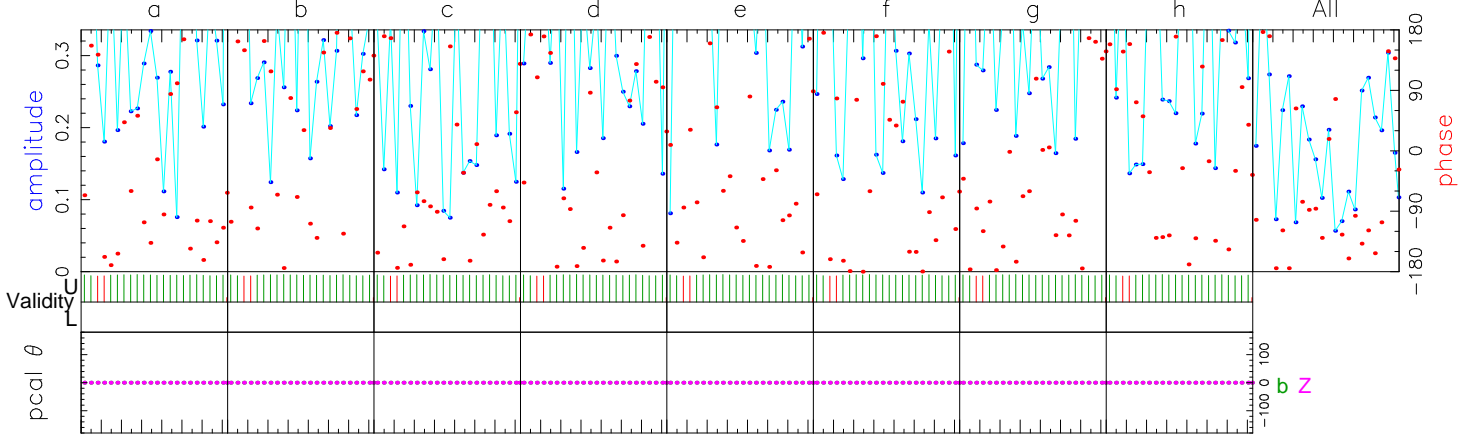
	RMS	Theor.	Amplitude	0.144 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	62.0	47.7	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	78.0	83.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	35.4	28.1	Inc. seg. avg.	0.153	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	46.4	49.0	Inc. frq. avg.	0.138	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

b: az 104.8 el 69.8 pa -57.1 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) -6494.042 -5589.513 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.16.18UHQS



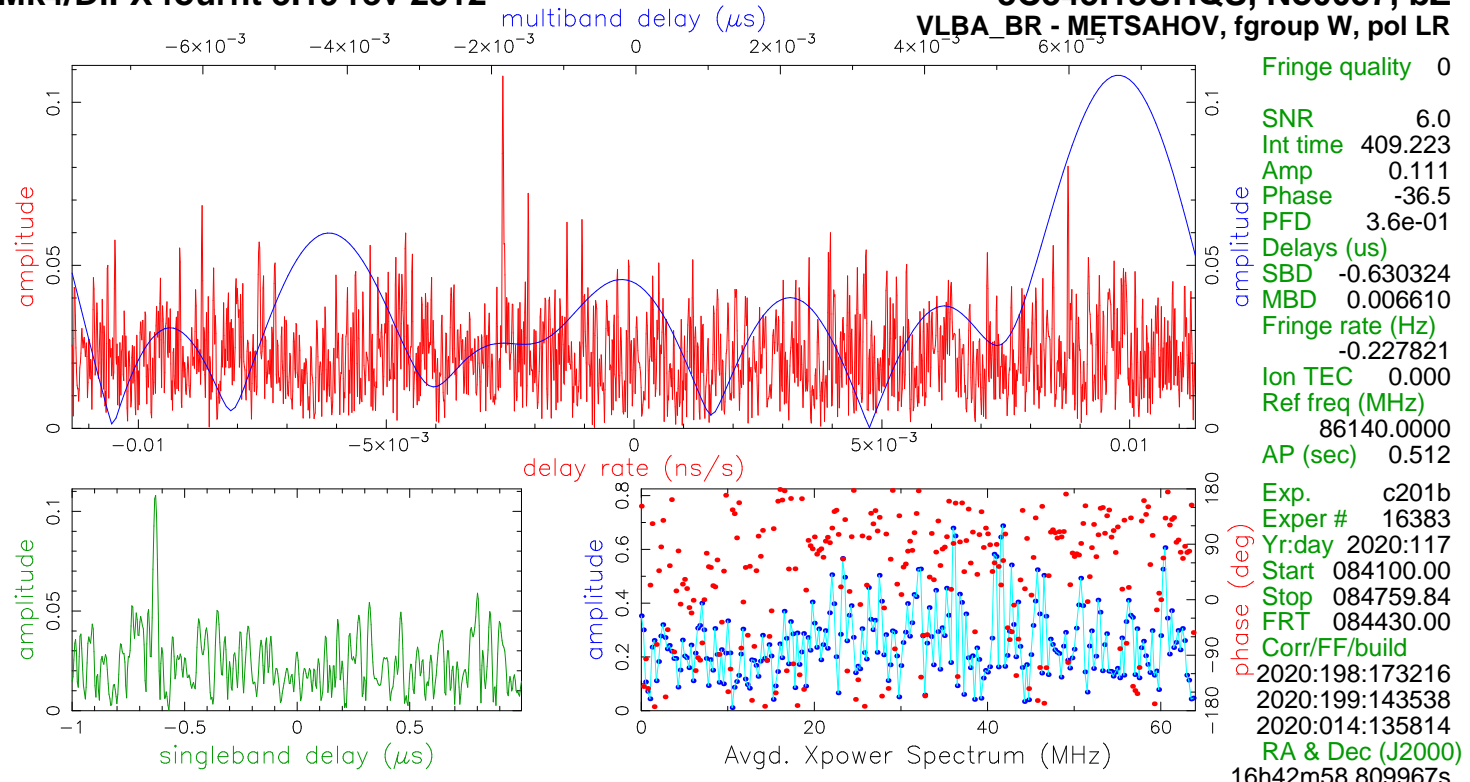
Fringe quality 0
 SNR 6.2
 Int time 409.222
 Amp 0.112
 Phase -145.1
 PFD 1.5e-01
 Delays (us)
 SBD -0.003721
 MBD 0.007320
 Fringe rate (Hz) 0.004497
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Yr:day 16383
 Xpr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 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

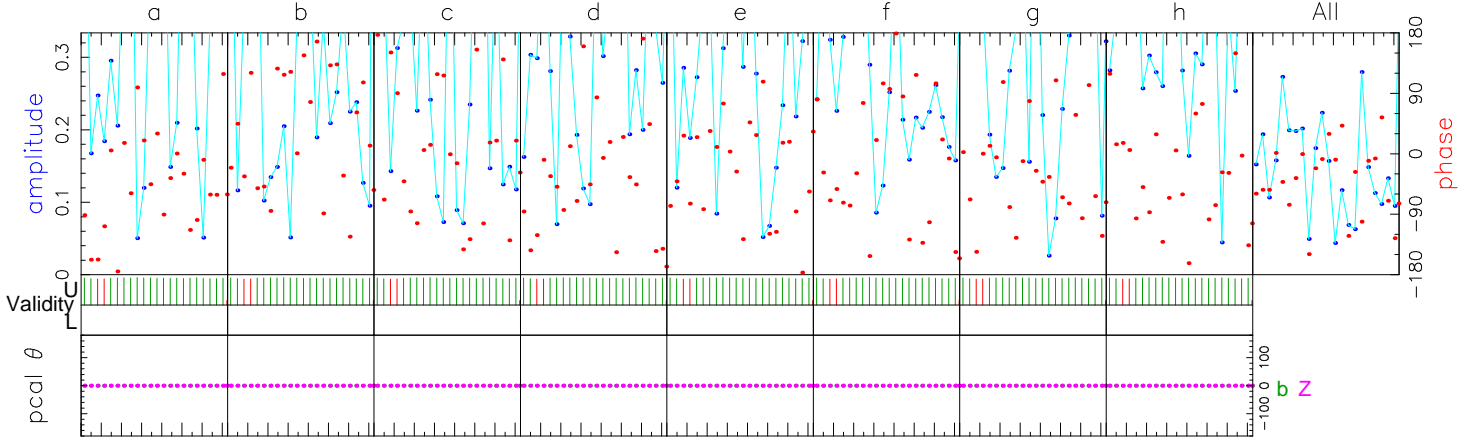


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.2	169.0	-107.2	-174.2	-105.5	-174.6	-138.5	-170.3	Phase	-145.1
	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	326.1	42.3	178.3	43.8	102.9	158.8	486.4	199.2	Sbd box	256.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.22573422414E+04		Apriori delay (usec)	1.22573505466E+04		Resid mbdelay (usec)	7.31974E-03	+/-	1.8E-04	
Sband delay (usec)	1.22573468259E+04		Apriori clock (usec)	-1.2900894E+00		Resid sbdelay (usec)	-3.72075E-03	+/-	1.4E-03	
Phase delay (usec)	1.22573505420E+04		Apriori clockrate (us/s)	-5.8000005E-08		Resid phdelay (usec)	-4.68060E-06	+/-	6.0E-07	
Delay rate (us/s)	8.50057509909E-01		Apriori rate (us/s)	8.50057457705E-01		Resid rate (us/s)	5.22037E-08	+/-	2.5E-09	
Total phase (deg)		-113.5	Apriori accel (us/s/s)	-7.41015604470E-05		Resid phase (deg)	-145.1	+/-	18.5	

ph/seg (deg) 69.2 44.4 Search (2048X32) 0.109 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 107.4 77.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.4 26.2 Inc. seg. avg. 0.144 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.0 45.7 Inc. frq. avg. 0.118 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 104.8 el 69.8 pa -57.1 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) -6494.042 -5589.513 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.38.18UHQS



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

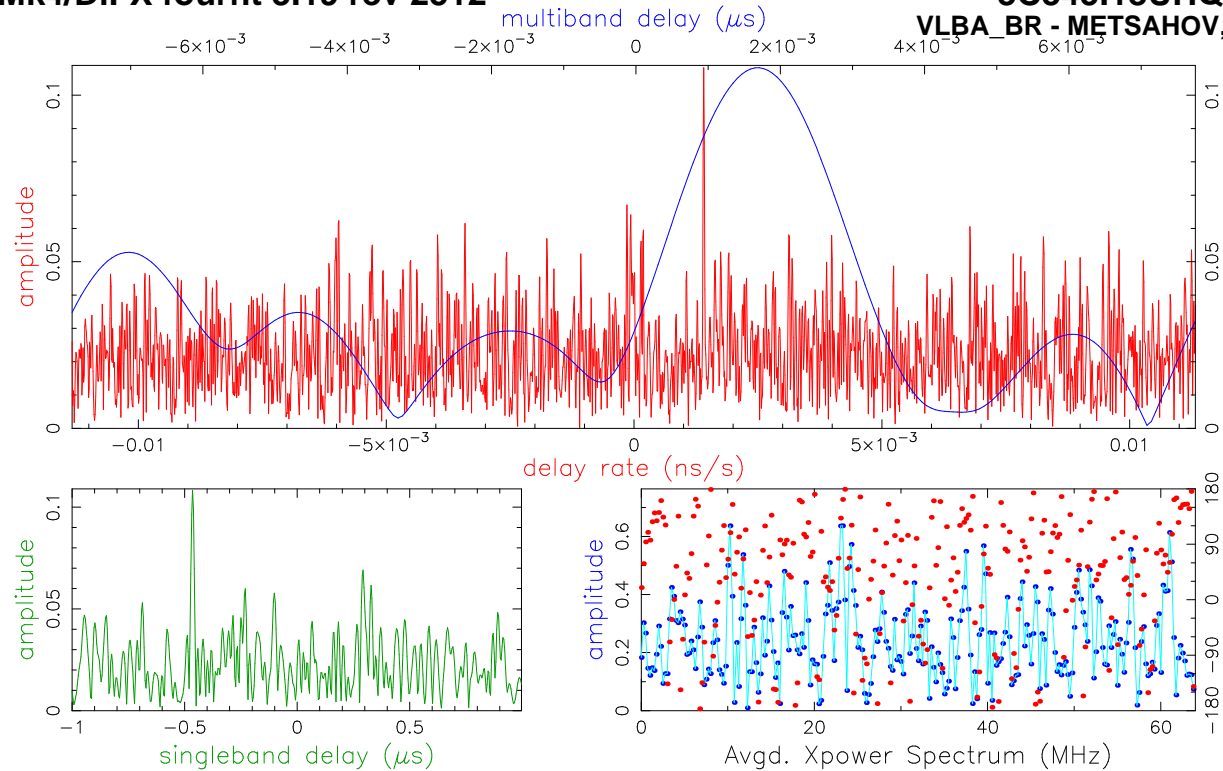


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.3	23.8	-50.0	-33.4	-13.3	-48.7	-34.6	-40.4	Phase	-36.5
	0.2	0.0	0.1	0.1	0.2	0.0	0.2	0.2	Ampl.	0.1
	98.0	113.7	463.4	476.6	248.9	173.7	278.9	303.7	Sbd box	95.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.22567165313E+04		Apriori delay (usec)		1.22573505466E+04		Resid mbdelay (usec)		6.60964E-03	+/- 1.8E-04
Sband delay (usec)	1.22567202221E+04		Apriori clock (usec)		-1.2900894E+00		Resid sbdelay (usec)		-6.30324E-01	+/- 1.4E-03
Phase delay (usec)	1.22573505455E+04		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		-1.17601E-06	+/- 6.1E-07
Delay rate (us/s)	8.50054812924E-01		Apriori rate (us/s)		8.50057457705E-01		Resid rate (us/s)		-2.64478E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.41015604470E-05		Resid phase (deg)		-36.5	+/- 19.0

	RMS	Theor.	Amplitude	0.111 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.6	45.6	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	72.6	79.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	28.8	26.9	Inc. seg. avg.	0.116	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.3	47.0	Inc. frq. avg.	0.105	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 104.8 el 69.8 pa -57.1 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) -6494.042 -5589.513 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.57.18UHQS

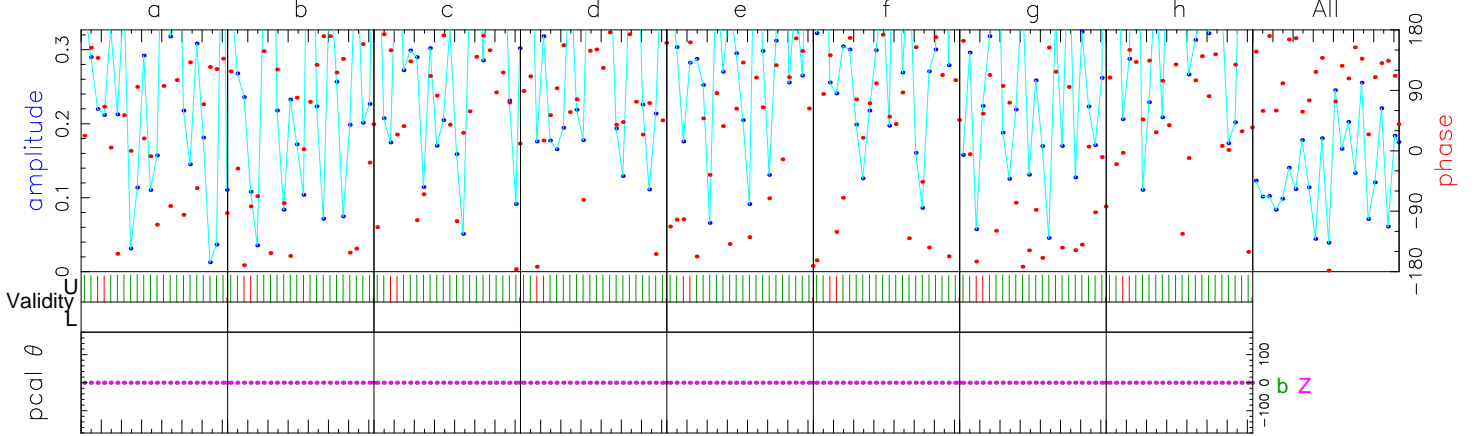


Fringe quality 0

SNR 6.0
 Int time 409.222
 Amp 0.109
 Phase 115.8
 PFD 4.2e-01
 Delays (us)
 SBD -0.464662
 MBD 0.001696
 Fringe rate (Hz)
 0.120843
 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
	83.7	155.0	115.6	104.6	111.6	118.8	-160.4	98.4	Phase	115.8
	0.1	0.1	0.1	0.2	0.1	0.2	0.0	0.1	Ampl.	0.1
	73.1	477.3	385.0	138.4	399.7	271.3	39.7	41.1	Sbd box	138.0
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.22568834931E+04	Apriori delay (usec)	1.22573505466E+04	Resid mbdelay (usec)	1.69641E-03	+/-	1.8E-04
Sband delay (usec)	1.22568858846E+04	Apriori clock (usec)	-1.2900894E+00	Resid sbdelay (usec)	-4.64662E-01	+/-	1.4E-03
Phase delay (usec)	1.22573505504E+04	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	3.73534E-06	+/-	6.2E-07
Delay rate (us/s)	8.50058860577E-01	Apriori rate (us/s)	8.50057457705E-01	Resid rate (us/s)	1.40287E-06	+/-	2.5E-09
Total phase (deg)	147.5	Apriori accel (us/s/s)	-7.41015604470E-05	Resid phase (deg)	115.8	+/-	19.1

ph/seg (deg)	42.2	Theor.	45.9	Amplitude	0.109 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	61.2		80.1	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	40.9		27.1	Inc. seg. avg.	0.103	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.0		47.2	Inc. frq. avg.	0.109	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 104.8 el 69.8 pa -57.1 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) -6494.042 -5589.513 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.75.18UHQS