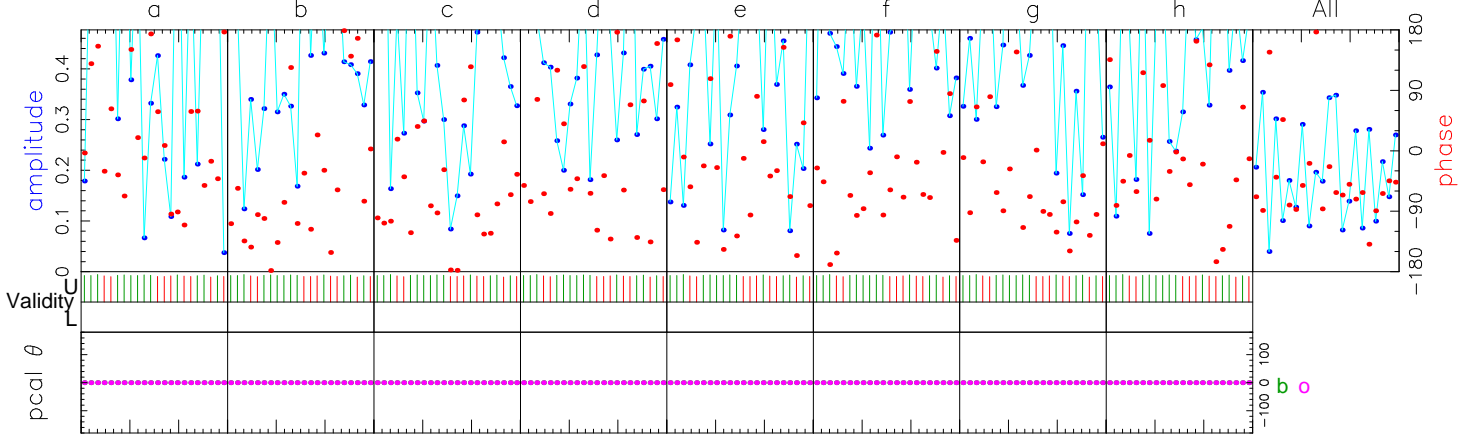


Fringe quality 0

SNR 5.5
Int time 172.286
Amp 0.159
Phase -66.6
PFD 9.9e-01
Delays (us)
SBD -0.241966
MBD -0.002625
Fringe rate (Hz)
0.282479
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143634
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



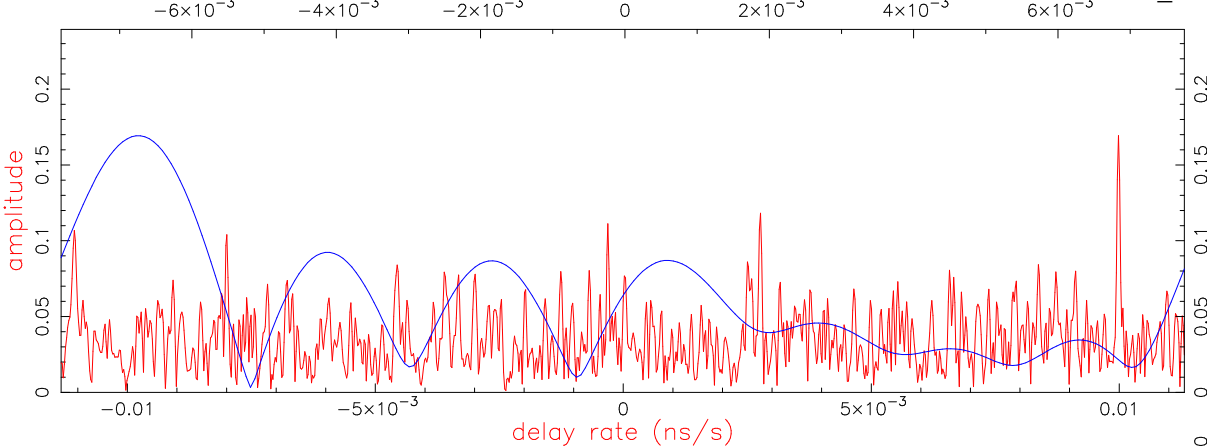
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-10.9	-98.9	-84.5	-64.8	-54.3	-66.5	-69.6	-48.8	Phase	-66.6
	0.2	0.2	0.3	0.1	0.1	0.2	0.2	0.1	Ampl.	0.2
	44.4	24.8	168.6	162.9	483.3	358.6	425.0	353.2	Sbd box	195.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	7.39639438121E+02	Apriori delay (usec)	7.39876437991E+02	Resid mbdelay (usec)	-2.62487E-03	+/-	2.0E-04
Sband delay (usec)	7.39634472241E+02	Apriori clock (usec)	-2.1498138E+01	Resid sbdelay (usec)	-2.41966E-01	+/-	1.6E-03
Phase delay (usec)	7.39876435842E+02	Apriori clockrate (us/s)	-2.4300001E-07	Resid phdelay (usec)	-2.14891E-06	+/-	6.7E-07
Delay rate (us/s)	-1.54508495590E-01	Apriori rate (us/s)	-1.54511774887E-01	Resid rate (us/s)	3.27930E-06	+/-	6.4E-09
Total phase (deg)		Apriori accel (us/s/s)	4.71041532066E-06	Resid phase (deg)	-66.6	+/-	20.8

ph/seg (deg)	53.3	Theor.	48.7	Amplitude	0.159 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	68.1		85.1	Search (1024X32)	0.152	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	28.7		29.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.0		51.3	Inc. seg. avg.	0.150	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.154	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

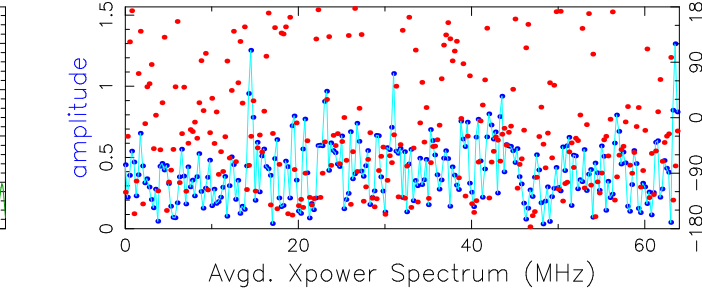
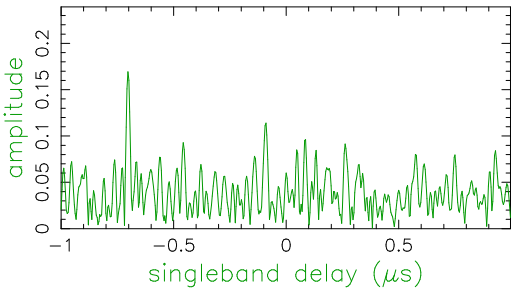
b: az 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 simultaneous interpolator

multiband delay (μs)



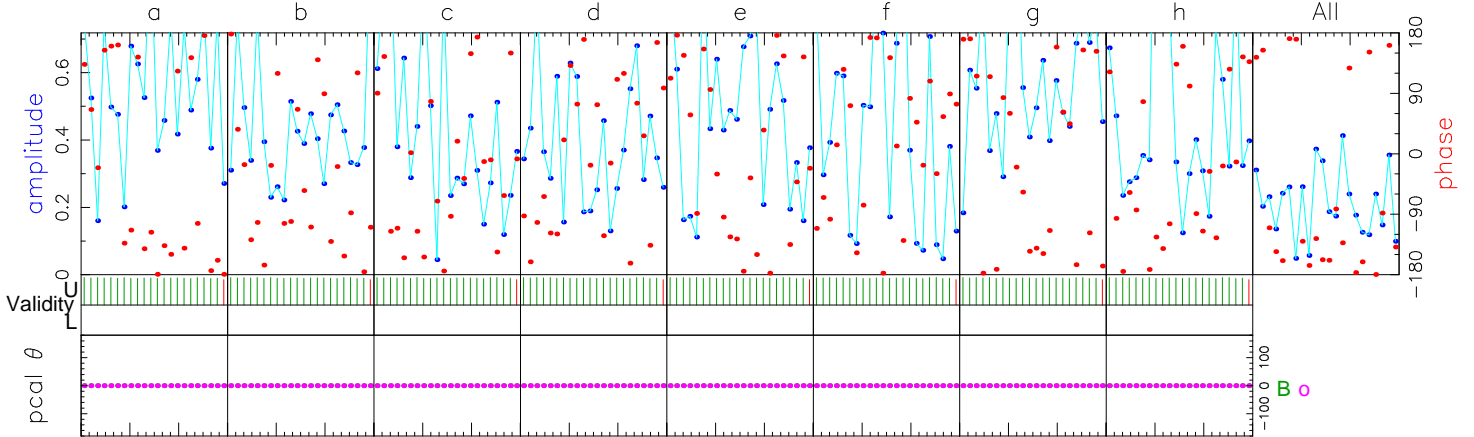
Fringe quality 0

SNR 6.2
 Int time 176.888
 Amp 0.239
 Phase -162.0
 PFD 8.6e-02
 Delays (us)
 SBD -0.702475
 MBD -0.006743
 Fringe rate (Hz)
 0.862276
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143635
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

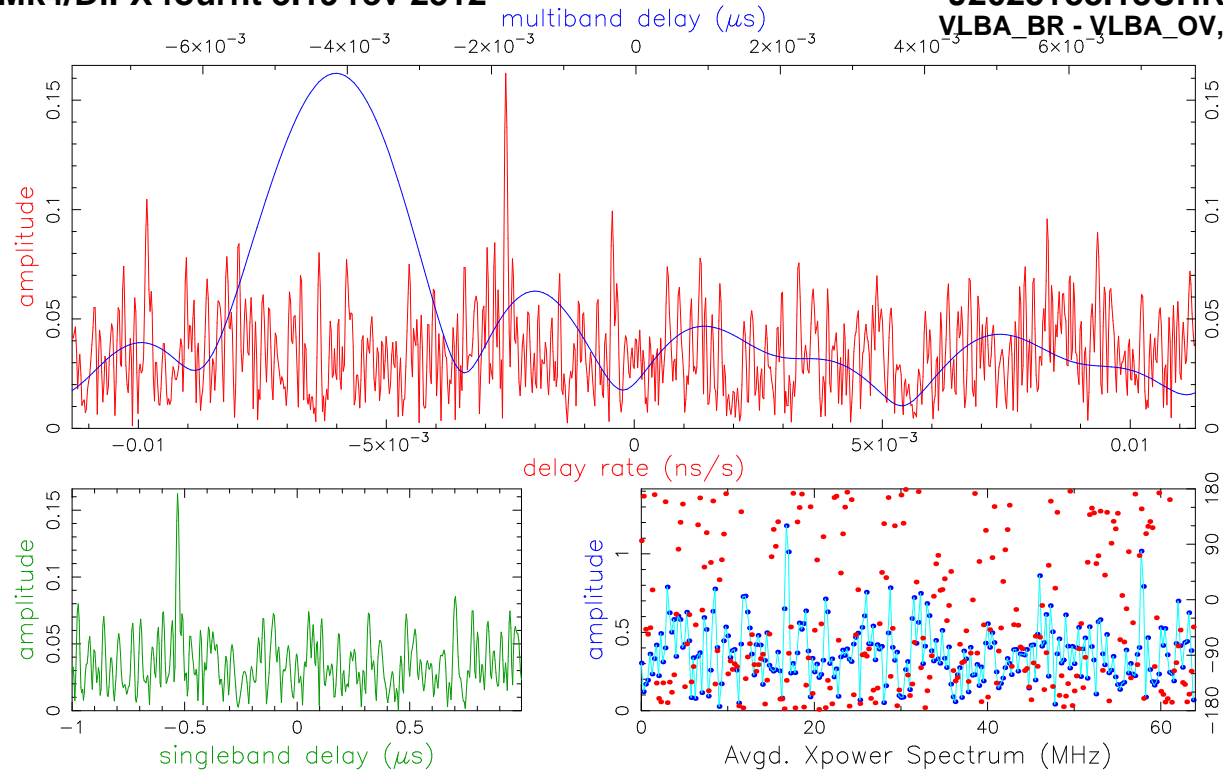


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.362665902925E+03			5.36337577728E+03				Resid mbdelay (usec)	-6.74303E-03 +/- 1.8E-04
Sband delay (usec)		5.36267330228E+03			-7.0403366E+00				Resid sbdelay (usec)	-7.02475E-01 +/- 1.4E-03
Phase delay (usec)		5.36337577206E+03			-4.0100001E-07				Resid phdelay (usec)	-5.22480E-06 +/- 6.0E-07
Delay rate (us/s)		-1.62581109633E+00			-1.62582110650E+00				Resid rate (us/s)	1.00102E-05 +/- 5.8E-09
Total phase (deg)			1.8		-1.80860317455E-05				Resid phase (deg)	-162.0 +/- 18.6

ph/seg (deg) 39.3 43.5 Search (1024X32) 0.165 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.0 76.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.0 26.3 Inc. seg. avg. 0.236 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.4 45.8 Inc. frq. avg. 0.234 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 264.9 el 50.1 pa 49.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 11190.391 217.384 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Bo.W.24.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bo
VLBA_BR - VLBA_OV, fgroup W, pol RR

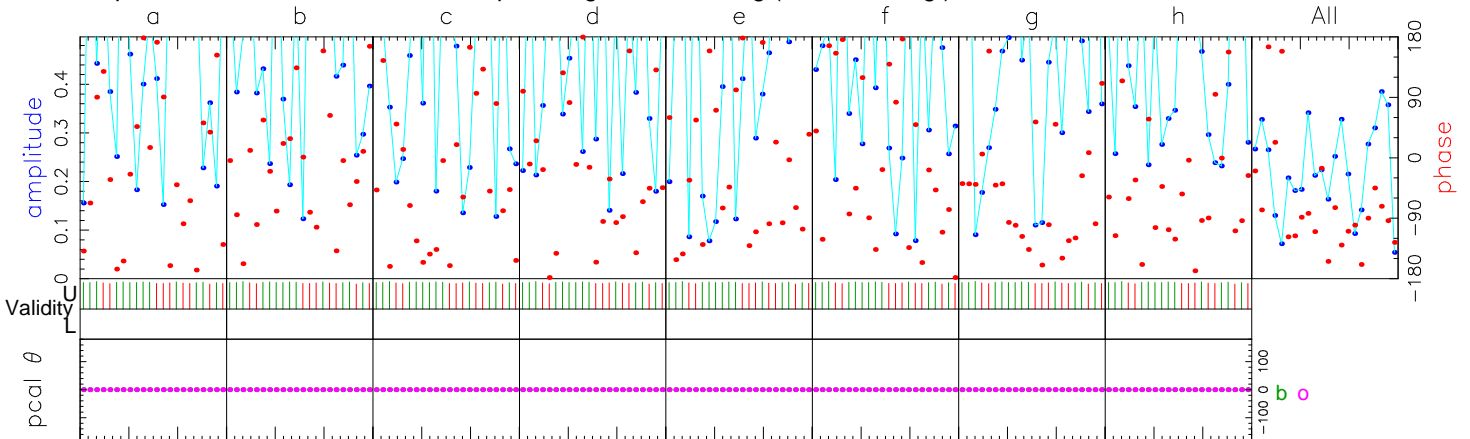


Fringe quality 0

SNR 5.8
Int time 172.285
Amp 0.166
Phase -91.5
PFD 5.1e-01
Delays (us)
SBD -0.531014
MBD -0.004153
Fringe rate (Hz)
-0.223681
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

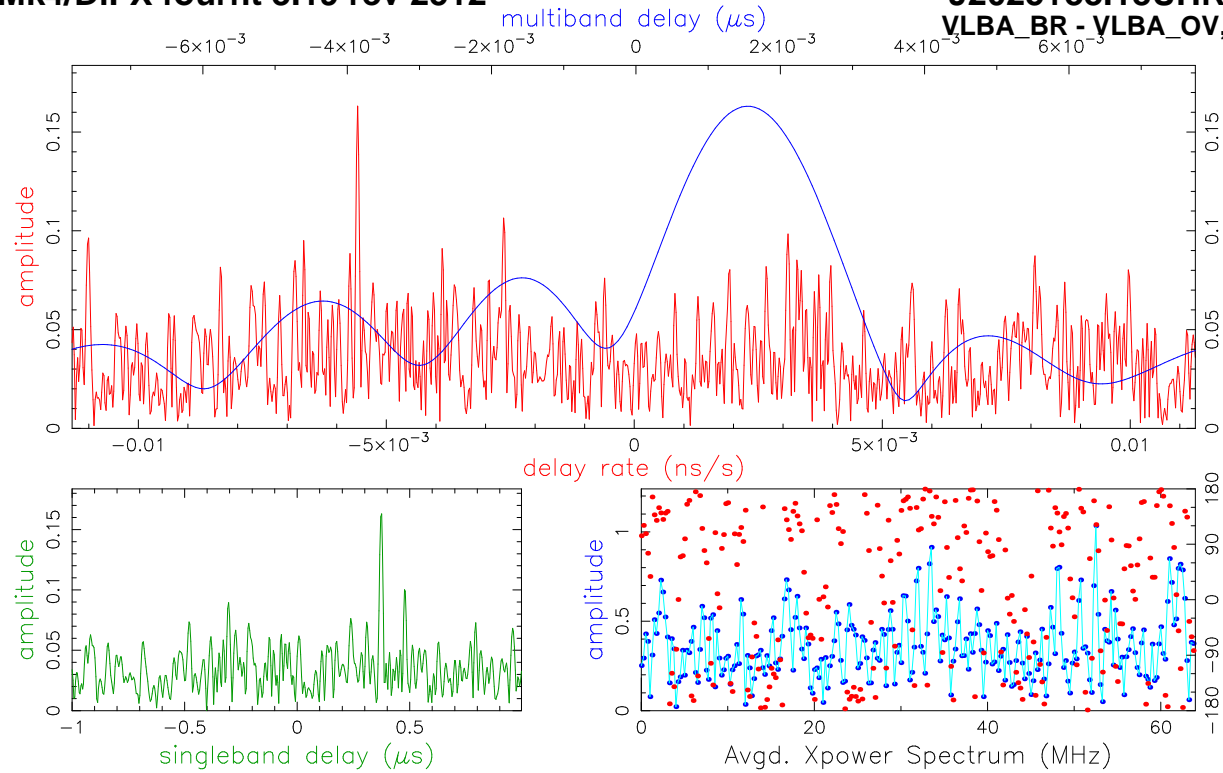
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143636
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-111.9	-57.5	-111.8	-74.2	-84.4	-119.6	-82.2	-93.1	Phase	-91.5
	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.2	Ampl.	0.2
	169.2	493.0	468.5	383.5	53.1	458.3	119.4	284.1	Sbd box	121.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.39341034745E+02		Apriori delay (usec)		7.39876437991E+02		Resid mbdelay (usec)		-4.15325E-03	+/- 1.9E-04
Sband delay (usec)	7.39345424241E+02		Apriori clock (usec)		-2.1498138E+01		Resid sbdelay (usec)		-5.31014E-01	+/- 1.5E-03
Phase delay (usec)	7.39876435039E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-2.95175E-06	+/- 6.3E-07
Delay rate (us/s)	-1.54514371603E-01		Apriori rate (us/s)		-1.54511774887E-01		Resid rate (us/s)		-2.59672E-06	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.71041532066E-06		Resid phase (deg)		-91.5	+/- 19.7

ph/seg (deg) 53.5 46.1 Search (1024X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.0 80.5 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 27.8 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.5 48.5 Inc. frq. avg. 0.157 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 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.25.18UHRL

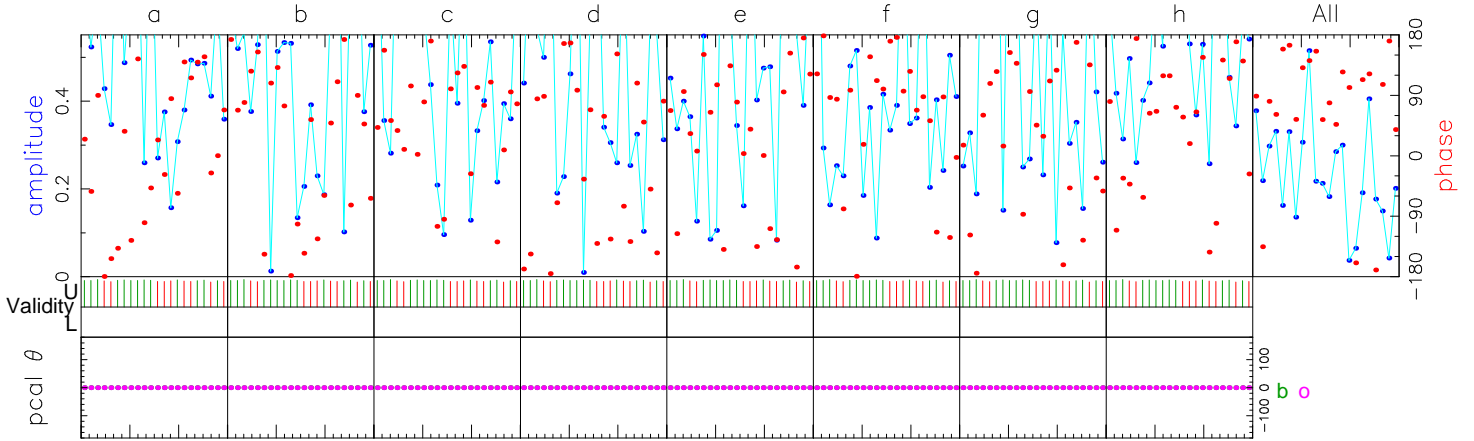


Fringe quality 0

SNR 6.0
Int time 172.286
Amp 0.184
Phase 113.4
PFD 2.8e-01
Delays (us)
SBD 0.373375
MBD 0.001532
Fringe rate (Hz)
-0.480571
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143637
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



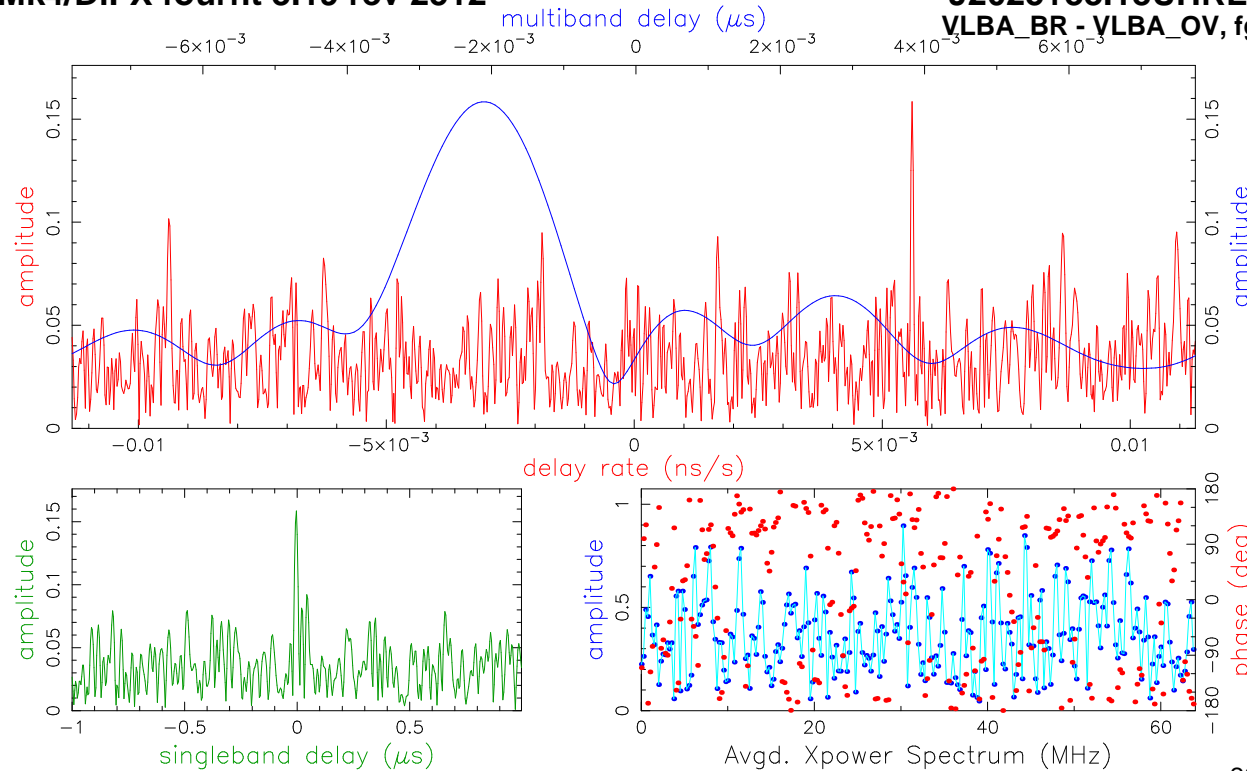
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	7.40252970104E+02					7.39876437991E+02			1.53211E-03	+/- 1.8E-04
Sband delay (usec)	7.40249812991E+02					-2.1498138E+01			3.73375E-01	+/- 1.4E-03
Phase delay (usec)	7.39876441649E+02					-2.4300001E-07			3.65753E-06	+/- 6.2E-07
Delay rate (us/s)	-1.54517353839E-01					-1.54511774887E-01			-5.57895E-06	+/- 6.0E-09
Total phase (deg)			246.1			4.71041532066E-06			113.4	+/- 19.2
	RMS	Theor.	Amplitude	0.184 +/- 0.031		Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5	
ph/seg (deg)	52.1	45.1	Search (1024X32)	0.162		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000
amp/seg (%)	81.6	78.7	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	31.1	27.2	Inc. seg. avg.	0.198		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011
amp/frq (%)	47.6	47.5	Inc. frq. avg.	0.181		Data rate(Mb/s): 2048			nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.31.18UHRL

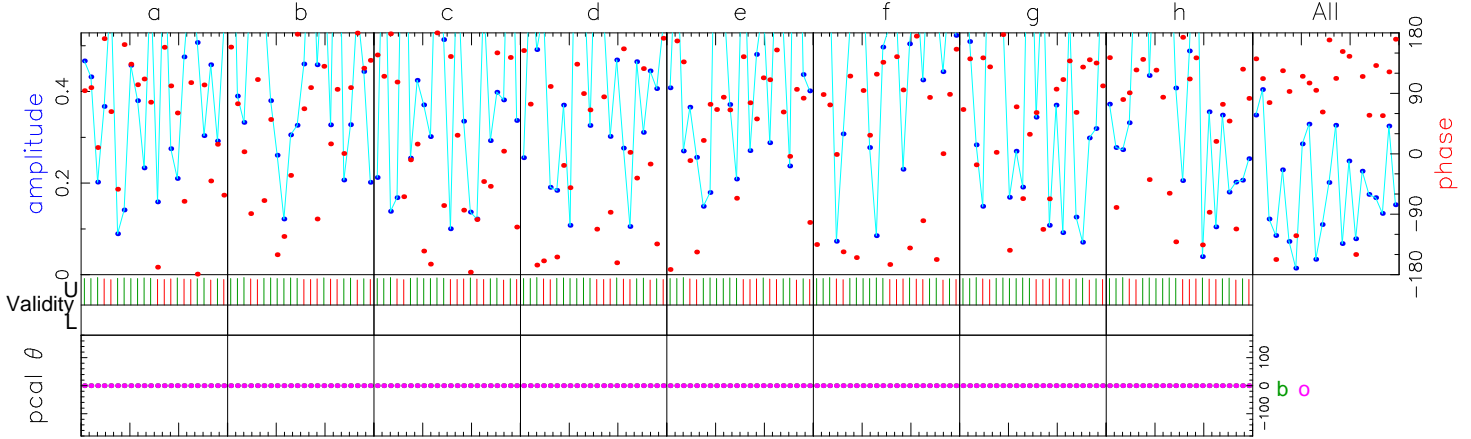
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bo
VLBA_BR - VLBA_OV, fgroup W, pol RL



Fringe quality 0
SNR 5.7
Int time 172.285
Amp 0.176
Phase 120.7
PFD 7.7e-01
Delays (us)
SBD -0.004555
MBD -0.002124
Fringe rate (Hz) 0.484011
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143640
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



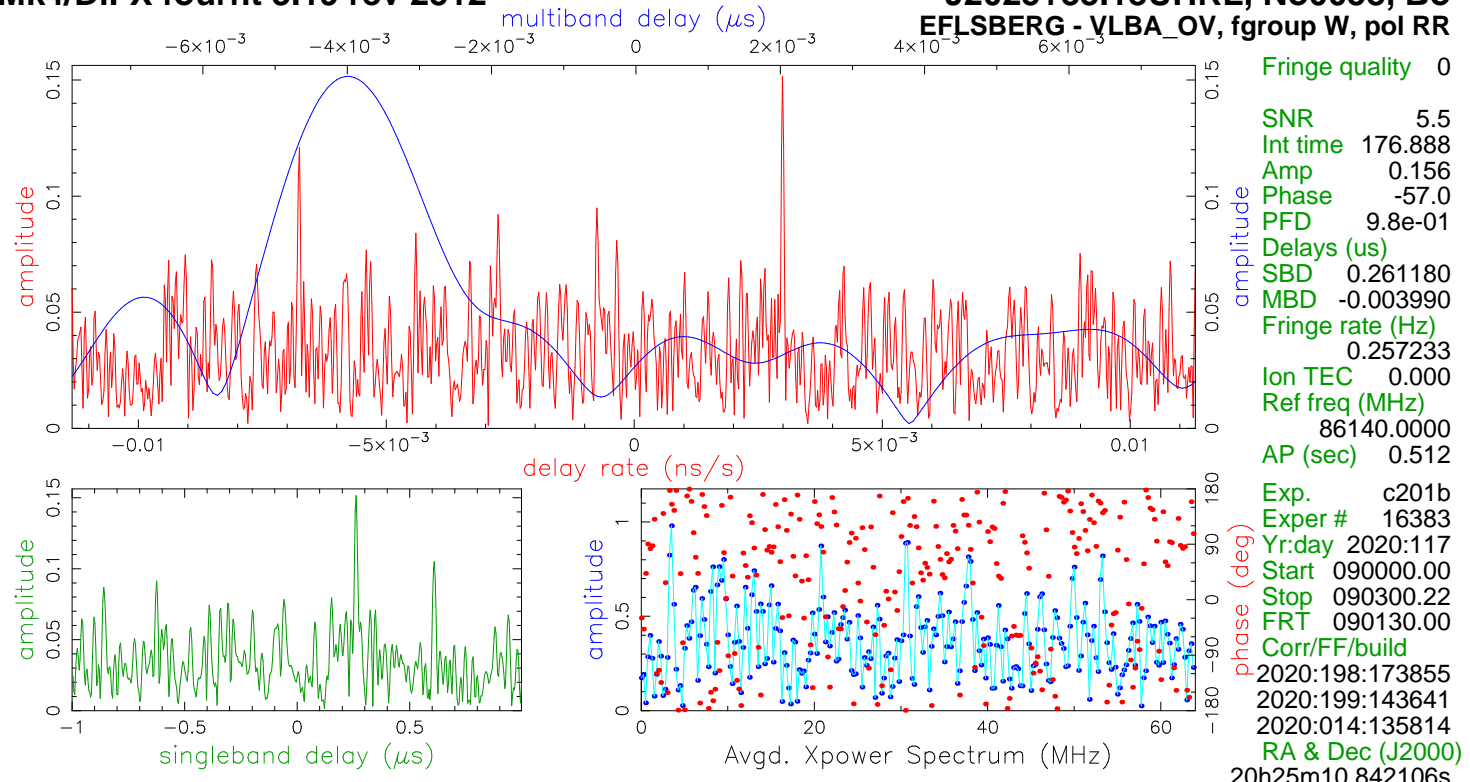
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	104.1	116.8	-136.4	154.0	100.8	144.8	96.0	126.4	Phase	120.7
	0.2	0.2	0.1	0.1	0.3	0.3	0.2	0.2	Ampl.	0.2
	392.8	218.0	188.1	280.0	256.0	22.9	248.7	508.2	Sbd box	255.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.39874314321E+02		Apriori delay (usec)		7.39876437991E+02		Resid mbdelay (usec)		-2.12367E-03	+/- 1.9E-04
Sband delay (usec)	7.39871882991E+02		Apriori clock (usec)		-2.1498138E+01		Resid sbdelay (usec)		-4.55500E-03	+/- 1.5E-03
Phase delay (usec)	7.39876441882E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		3.89070E-06	+/- 6.5E-07
Delay rate (us/s)	-1.54506155995E-01		Apriori rate (us/s)		-1.54511774887E-01		Resid rate (us/s)		5.61889E-06	+/- 6.2E-09
Total phase (deg)	253.3		Apriori accel (us/s/s)		4.71041532066E-06		Resid phase (deg)		120.7	+/- 20.1

ph/seg (deg) 48.2 47.1 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.8 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 47.6 28.4 Inc. seg. avg. 0.155 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 41.5 49.6 Inc. frq. avg. 0.174 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 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 simultaneous interpolator

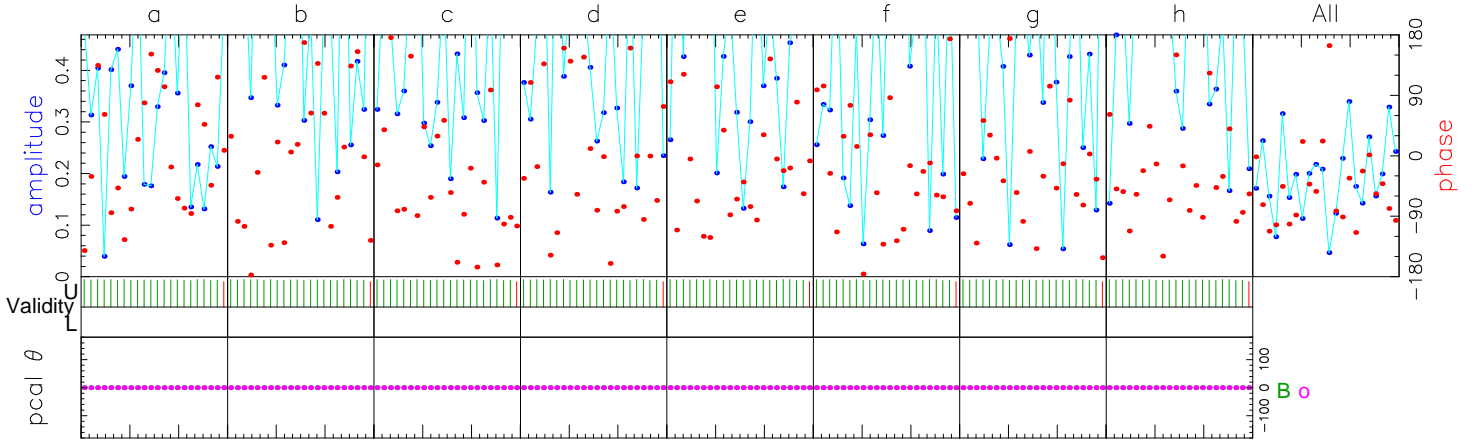
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.40.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, Bo
EFLSBERG - VLBA_OV, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

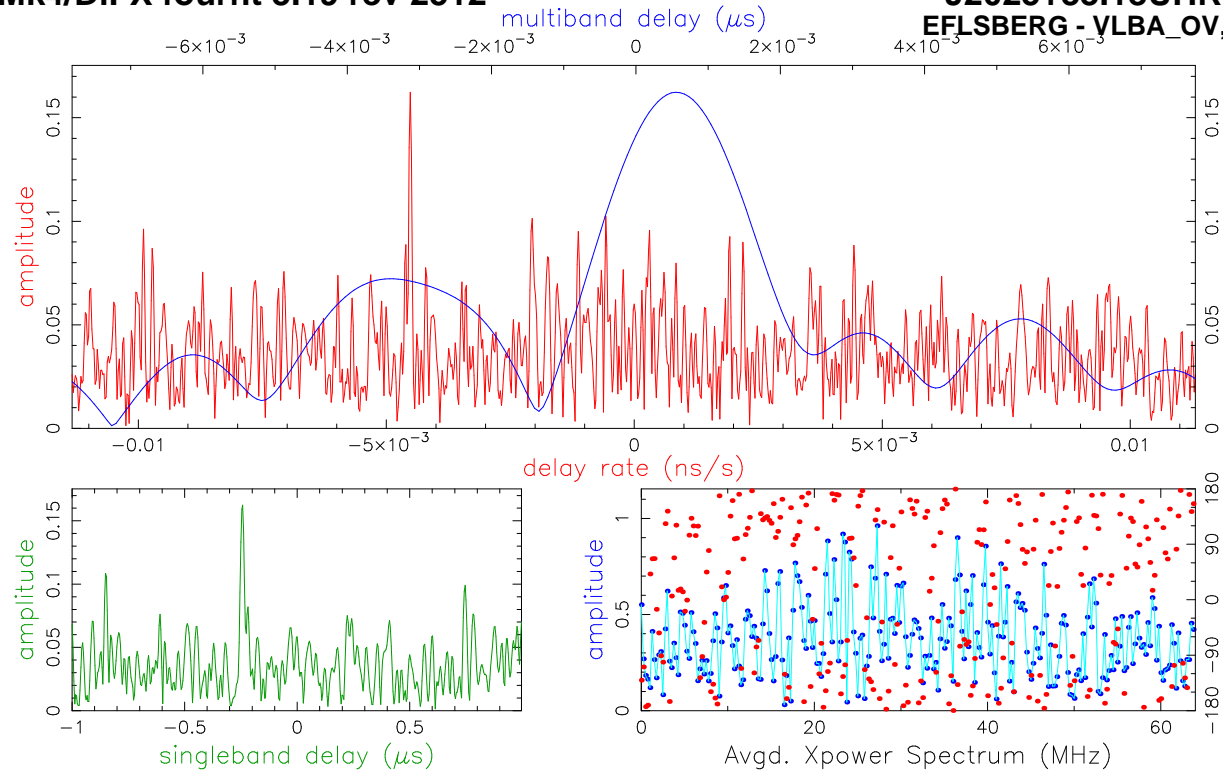


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-32.7	-37.8	-73.6	-90.6	-62.6	-59.8	-48.7	-52.9	Phase	-57.0
	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.3	Ampl.	0.1
	110.5	409.9	155.7	403.8	82.7	190.9	135.4	323.8	Sbd box	323.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		5.36363741183E+03			Apriori delay (usec)	5.36337577728E+03			Resid mbdelay (usec)	-3.99045E-03 +/- 2.0E-04
Sband delay (usec)		5.36363695753E+03			Apriori clock (usec)	-7.0403366E+00			Resid sbdelay (usec)	2.61180E-01 +/- 1.6E-03
Phase delay (usec)		5.36337577544E+03			Apriori clockrate (us/s)	-4.0100001E-07			Resid phdelay (usec)	-1.83674E-06 +/- 6.7E-07
Delay rate (us/s)		-1.62581812028E+00			Apriori rate (us/s)	-1.62582110650E+00			Resid rate (us/s)	2.98622E-06 +/- 6.4E-09
Total phase (deg)			106.8		Apriori accel (us/s/s)	-1.80860317455E-05			Resid phase (deg)	-57.0 +/- 20.7

	RMS	Theor.	Amplitude	0.156 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	50.4	48.7	Search (1024X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	57.7	84.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	20.4	29.3	Inc. seg. avg.	0.149	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.5	51.2	Inc. frq. avg.	0.142	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 264.9 el 50.1 pa 49.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 11190.391 217.384 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Bo.W.47.18UHRL

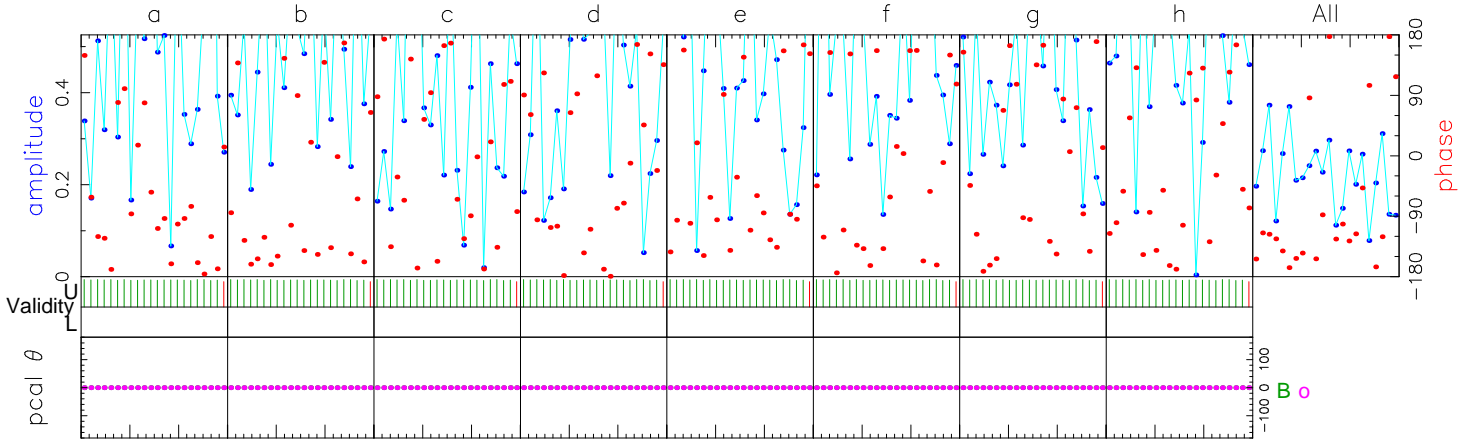


Fringe quality 0

SNR 6.0
Int time 176.888
Amp 0.175
Phase -139.7
PFD 2.7e-01
Delays (us)
SBD -0.243637
MBD 0.000570
Fringe rate (Hz)
-0.388877
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143643
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



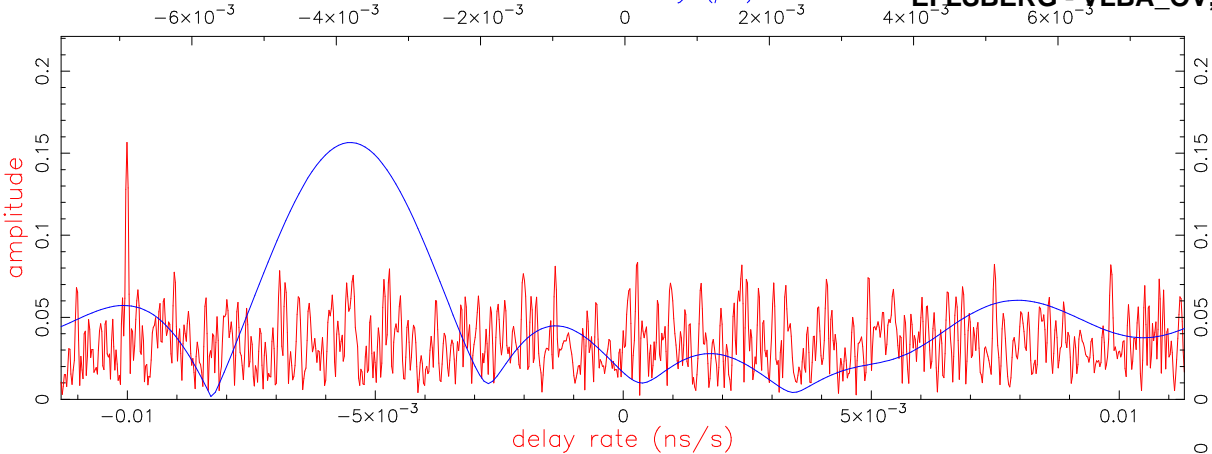
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.9	-143.8	174.6	-163.5	-125.5	-147.0	-170.4	-112.0	Phase	-139.7
	0.2	0.2	0.1	0.1	0.3	0.3	0.2	0.2	Ampl.	0.2
	428.9	200.5	292.6	156.9	141.9	315.2	468.1	313.9	Sbd box	194.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 5.36312634687E+03 Apriori delay (usec) 5.36337577728E+03 Resid mbdelay (usec) 5.69590E-04 +/- 1.8E-04
 Sband delay (usec) 5.36313214003E+03 Apriori clock (usec) -7.0403366E+00 Resid sbdelay (usec) -2.43637E-01 +/- 1.4E-03
 Phase delay (usec) 5.36337577278E+03 Apriori clockrate (us/s) -4.0100001E-07 Resid phdelay (usec) -4.50346E-06 +/- 6.2E-07
 Delay rate (us/s) -1.62582562097E+00 Apriori rate (us/s) -1.62582110650E+00 Resid rate (us/s) -4.51447E-06 +/- 6.0E-09
 Total phase (deg) 24.1 Apriori accel (us/s/s) -1.80860317455E-05 Resid phase (deg) -139.7 +/- 19.2

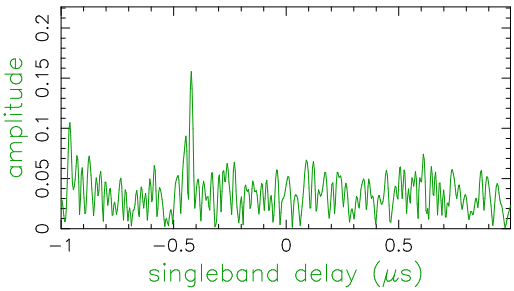
RMS Theor. Amplitude 0.175 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 53.1 45.0 Search (1024X32) 0.161 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 60.3 78.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 28.8 27.2 Inc. seg. avg. 0.183 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 39.3 47.4 Inc. frq. avg. 0.167 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 264.9 el 50.1 pa 49.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 11190.391 217.384 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Bo.W.54.18UHRL

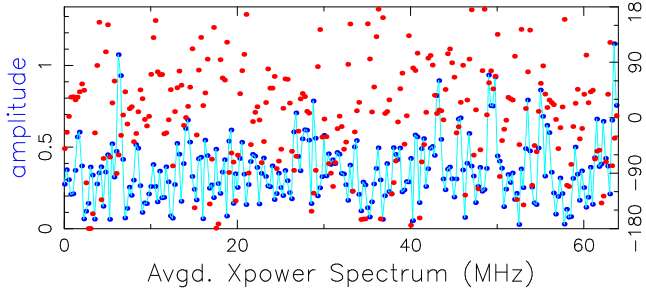
multiband delay (μ s)



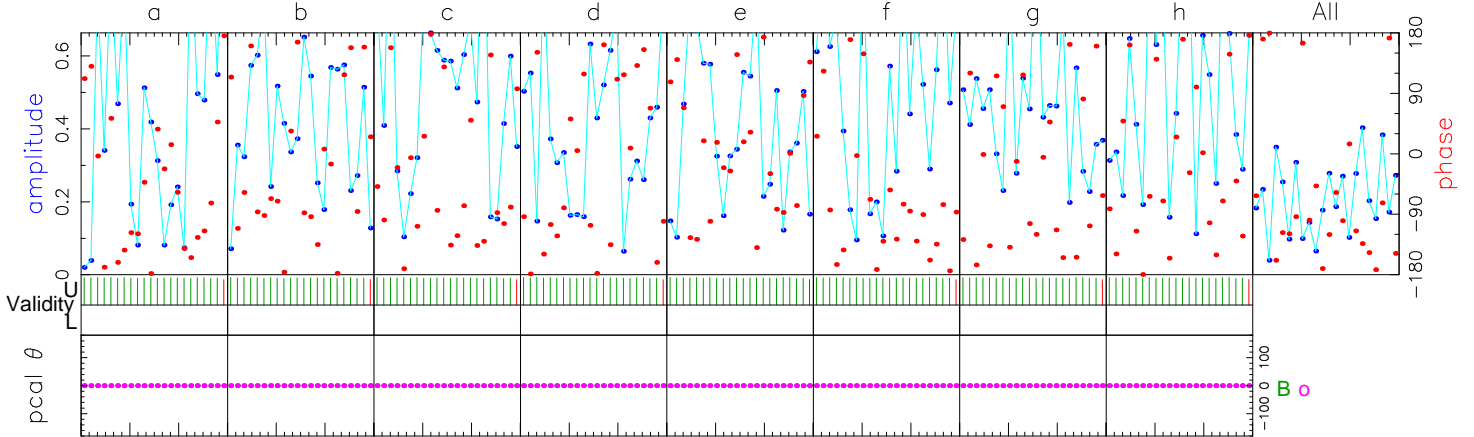
Fringe quality 0
SNR 5.7
Int time 176.888
Amp 0.221
Phase -124.0
PFD 7.8e-01
Delays (us)
SBD -0.421938
MBD -0.003811
Fringe rate (Hz)
-0.864141
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143647
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"



delay rate (ns/s)

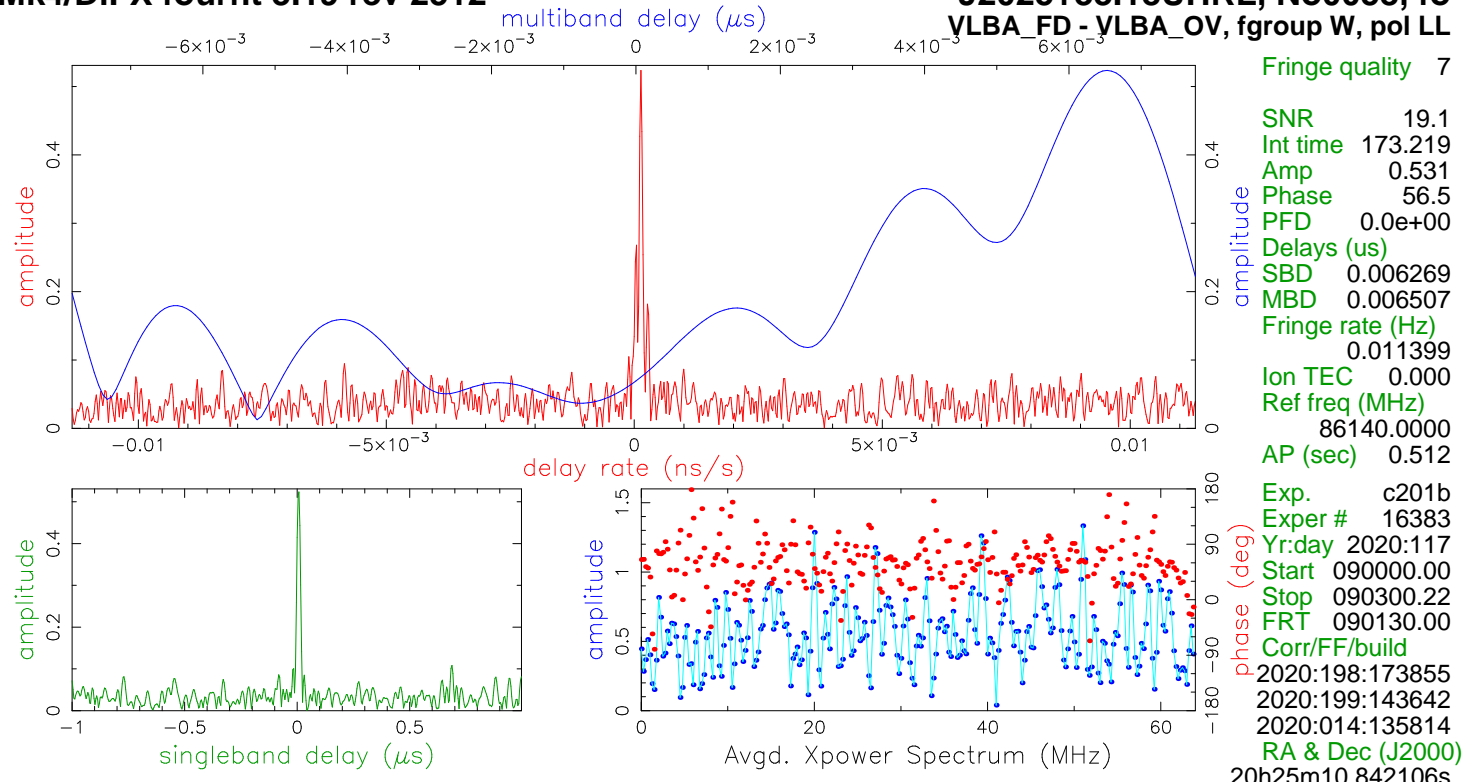


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-123.7	-117.0	-117.8	-155.3	-57.2	-119.4	-145.6	-109.3	Phase	-124.0
	0.2	0.2	0.3	0.3	0.1	0.4	0.3	0.2	Ampl.	0.2
	371.2	31.7	74.3	140.1	73.9	150.2	400.3	509.7	Sbd box	149.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.36295009157E+03		Apriori delay (usec)		5.36337577728E+03		Resid mbdelay (usec)		-3.81071E-03	+/- 1.9E-04
Sband delay (usec)	5.36295383953E+03		Apriori clock (usec)		-7.0403366E-07		Resid sbdelay (usec)		-4.21938E-01	+/- 1.5E-03
Phase delay (usec)	5.36337577328E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		-3.99739E-06	+/- 6.5E-07
Delay rate (us/s)	-1.62583113832E+00		Apriori rate (us/s)		-1.62582110650E+00		Resid rate (us/s)		-1.00318E-05	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.80860317455E-05		Resid phase (deg)		-124.0	+/- 20.1

ph/seg (deg) 53.1 47.2 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.9 82.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.2 28.5 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.0 49.7 Inc. frq. avg. 0.212 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 264.9 el 50.1 pa 49.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 11190.391 217.384 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Bo.W.74.18UHRL



Fringe quality 7

SNR 19.1

Int time 173.219

Amp 0.531

Phase 56.5

PFD 0.0e+00

Delays (us)

SBD 0.006269

MBD 0.006507

Fringe rate (Hz)

0.011399

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 090000.00

Stop 090300.22

FRT 090130.00

Corr/FF/build

2020:198:173855

2020:199:143642

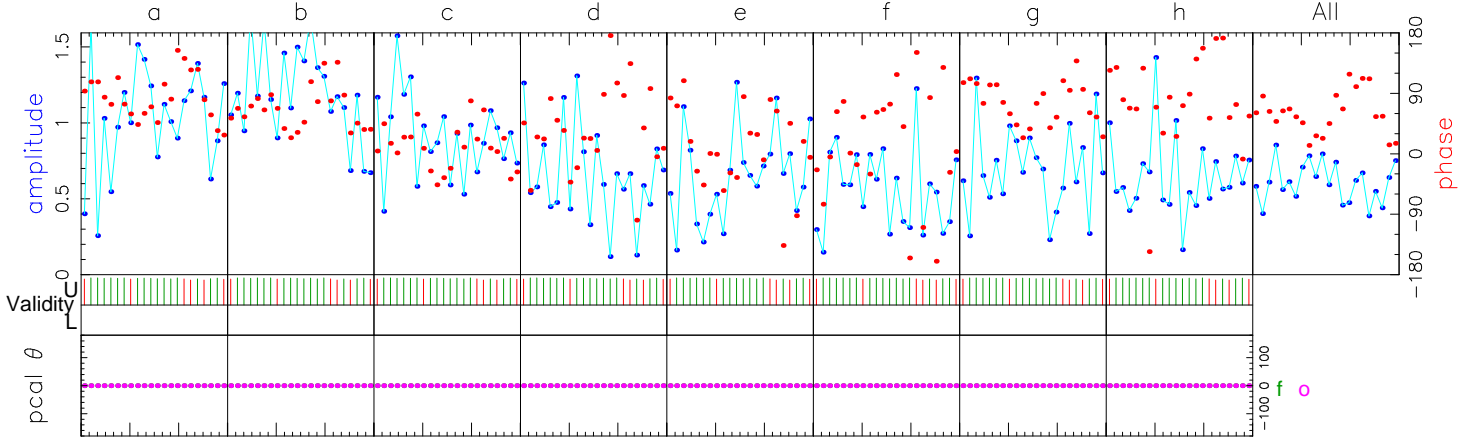
2020:014:135814

RA & Dec (J2000)

20h25m10.842106s

+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



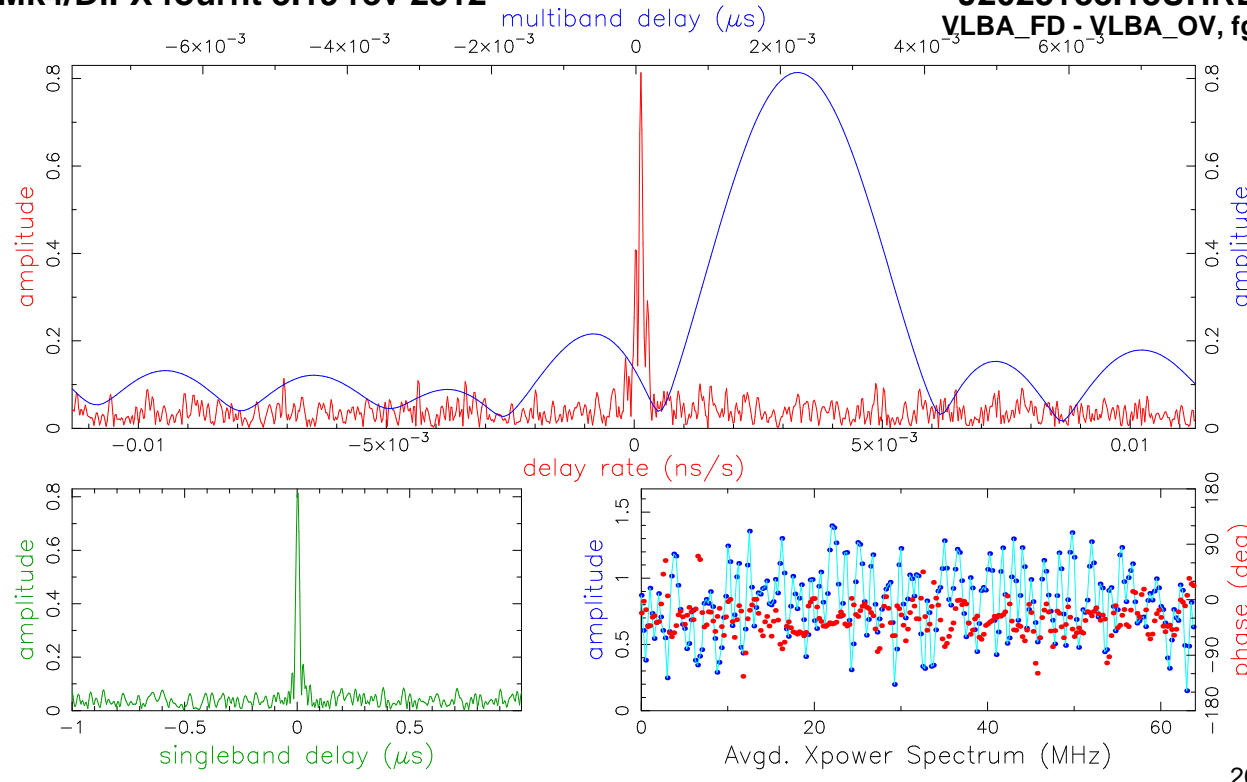
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		258.6
f	1000	1000	1000	1000	1000	1000	1000	1000		0.9
o	1000	1000	1000	1000	1000	1000	1000	1000		0.2
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		46.6
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		0.4
f	1000	1000	1000	1000	1000	1000	1000	1000		76.1
o	1000	1000	1000	1000	1000	1000	1000	1000		0.6
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		90.1
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		0.4

Group delay (usec)(sbd)	2.66896788843E+03	Apriori delay (usec)	2.66896138139E+03	Resid mbdelay (usec)	6.50705E-03	+/-	5.7E-05
Sband delay (usec)	2.66896765014E+03	Apriori clock (usec)	-1.6189924E+01	Resid sbdelay (usec)	6.26875E-03	+/-	4.5E-04
Phase delay (usec)	2.66896138321E+03	Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	1.82280E-06	+/-	1.9E-07
Delay rate (us/s)	-2.68307379040E-02	Apriori rate (us/s)	-2.68308702328E-02	Resid rate (us/s)	1.32329E-07	+/-	1.9E-09
Total phase (deg)	197.8	Apriori accel (us/s/s)	-2.02606161374E-05	Resid phase (deg)	56.5	+/-	6.0

ph/seg (deg)	31.4	Theor.	Amplitude	0.531 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	28.1	14.1	Search (1024X32)	0.516	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	33.0	8.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	49.5	14.8	Inc. seg. avg.	0.591	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.590	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 69.5 el 39.4 pa -75.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 169.086 -1767.697 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fo.W.51.18UHRL

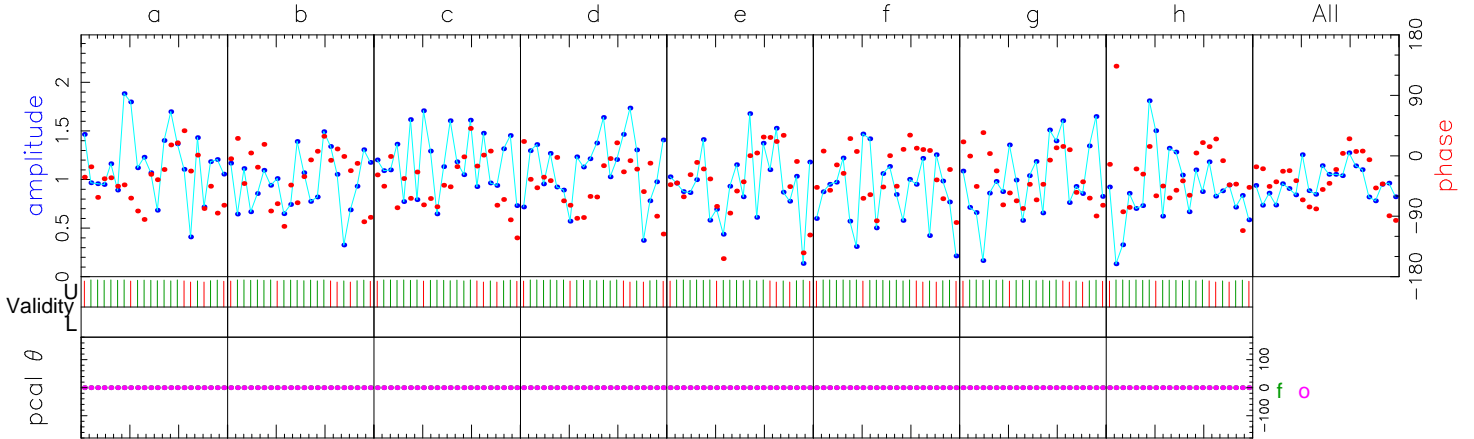


Fringe quality 8

SNR 29.9
Int time 173.218
Amp 0.830
Phase -33.3
PFD 0.0e+00
Delays (us)
SBD 0.002094
MBD 0.002199
Fringe rate (Hz) 0.011390
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143644
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

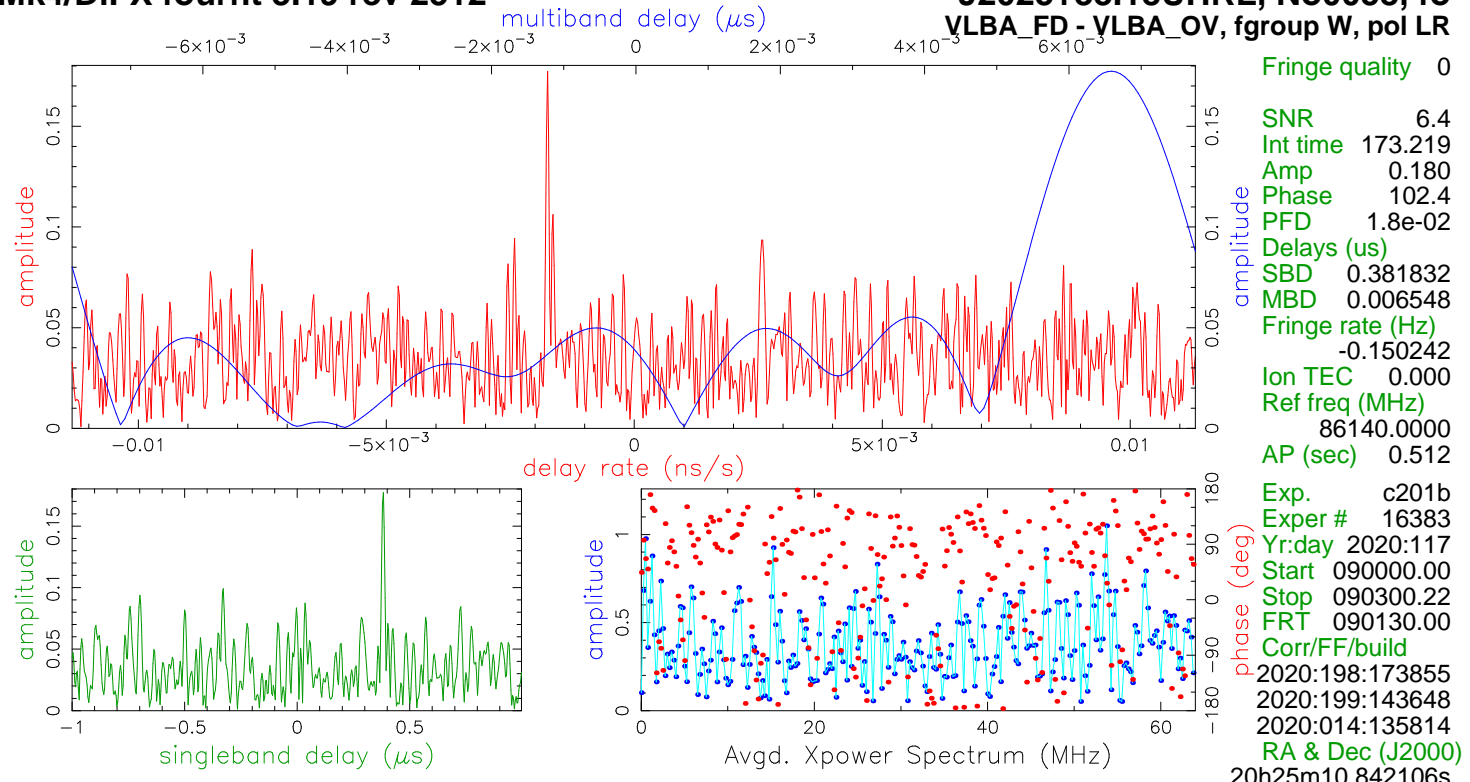


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

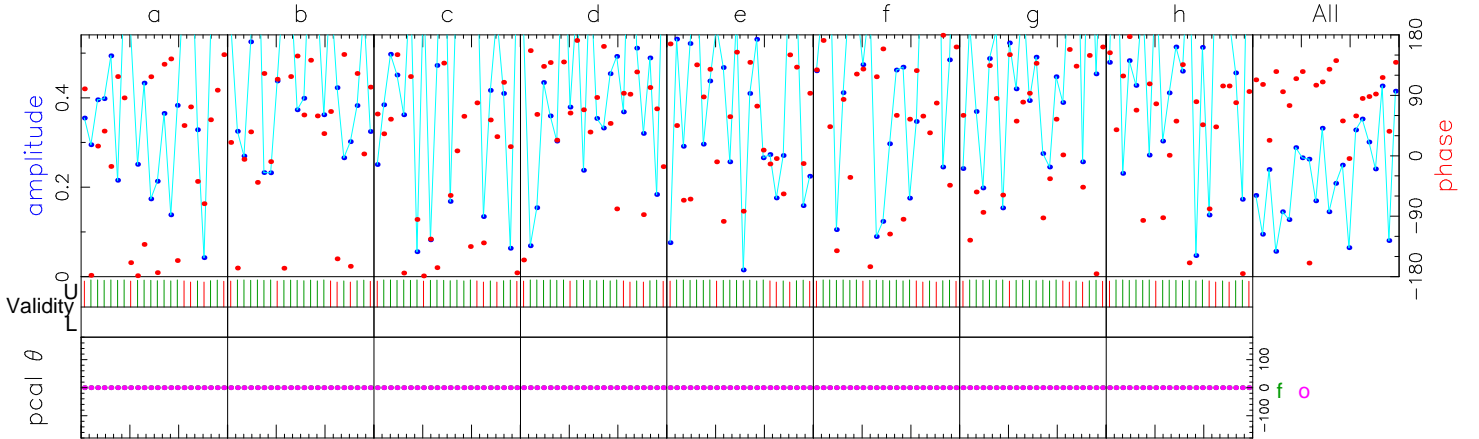
Group delay (usec)(sbd)	2.66896358053E+03	Apriori delay (usec)	2.66896138139E+03	Resid mbdelay (usec)	2.19914E-03	+/-	3.6E-05
Sband delay (usec)	2.66896347564E+03	Apriori clock (usec)	-1.6189924E+01	Resid sbdelay (usec)	2.09425E-03	+/-	2.9E-04
Phase delay (usec)	2.66896138031E+03	Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	-1.07230E-06	+/-	1.2E-07
Delay rate (us/s)	-2.68307380103E-02	Apriori rate (us/s)	-2.68308702328E-02	Resid rate (us/s)	1.32223E-07	+/-	1.2E-09
Total phase (deg)	108.1	Apriori accel (us/s/s)	-2.02606161374E-05	Resid phase (deg)	-33.3	+/-	3.8

ph/seg (deg)	31.9	Theor.	9.0	Amplitude	0.830 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	24.1	Search (1024X32)	0.796	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	7.2	Inc. seg. avg.	0.948	Inc. frq. avg.	0.814	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	12.3	Inc. frq. avg.	0.814			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
f: az 69.5 el 39.4 pa -75.8		o: az 68.8 el 30.5 pa -63.2		u,v (fr/asec)	169.086 -1767.697	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	
Control file: cf_1234_gmva		Input file: /Exps/c201b/v1/1234/No0058/fo..18UHRL		Output file: /Exps/c201b/v1/1234/No0058/fo.W.59.18UHRL		nlags:	256	t_cohere	infinite	

simultaneous interpolator



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
102.0	87.2	112.1	100.1	95.8	98.7	98.7	130.9	90.3	Phase	102.4
0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	Ampl.	0.2
26.4	443.2	116.1	449.6	12.2	426.7	59.0	353.6		Sbd box	354.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.66934292946E+03		Apriori delay (usec)	2.66896138139E+03	Resid mbdelay (usec)	6.54808E-03	+/-	1.7E-04		
Sband delay (usec)	2.66934321339E+03		Apriori clock (usec)	-1.6189924E+01	Resid sbdelay (usec)	3.81832E-01	+/-	1.3E-03		
Phase delay (usec)	2.66896138469E+03		Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	3.30153E-06	+/-	5.8E-07		
Delay rate (us/s)	-2.68326143970E-02		Apriori rate (us/s)	-2.68308702328E-02	Resid rate (us/s)	-1.74416E-06	+/-	5.5E-09		
Total phase (deg)		243.7	Apriori accel (us/s/s)	-2.02606161374E-05	Resid phase (deg)	102.4	+/-	17.8		

ph/seg (deg) 44.3 41.8 Amplitude 0.180 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

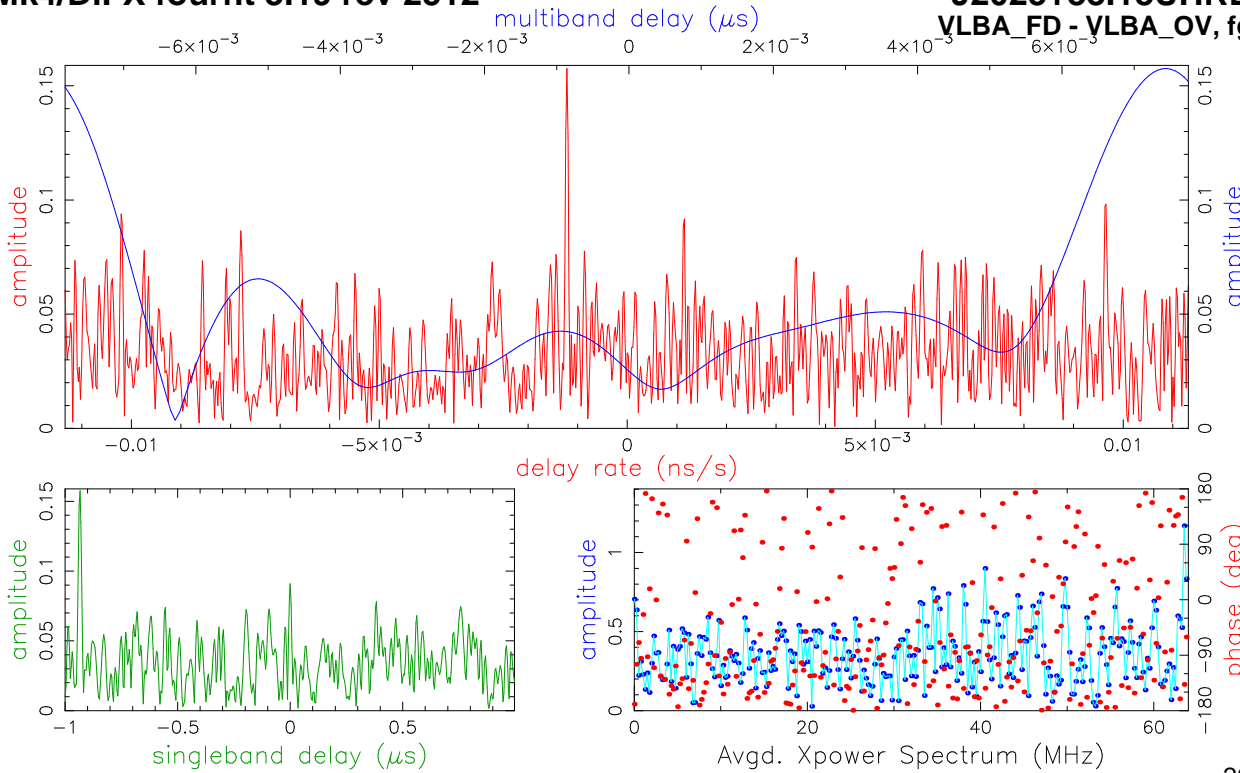
amp/seg (%) 64.9 73.0 Search (1024X32) 0.173 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 15.0 25.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 20.6 44.0 Inc. seg. avg. 0.179 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

f: az 69.5 el 39.4 pa -75.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 169.086 -1767.697 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fo.W.77.18UHRL simultaneous interpolator

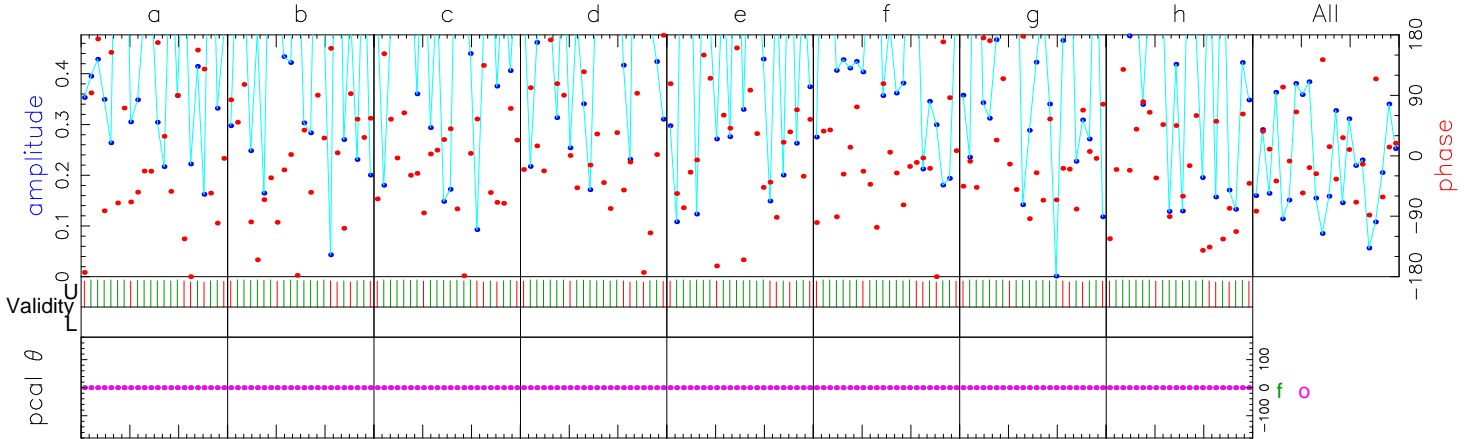


Fringe quality 0

SNR 5.7
Int time 173.218
Amp 0.159
Phase -7.0
PFD 7.9e-01
Delays (us)
SBD -0.934328
MBD -0.008192
Fringe rate (Hz)
-0.105810
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

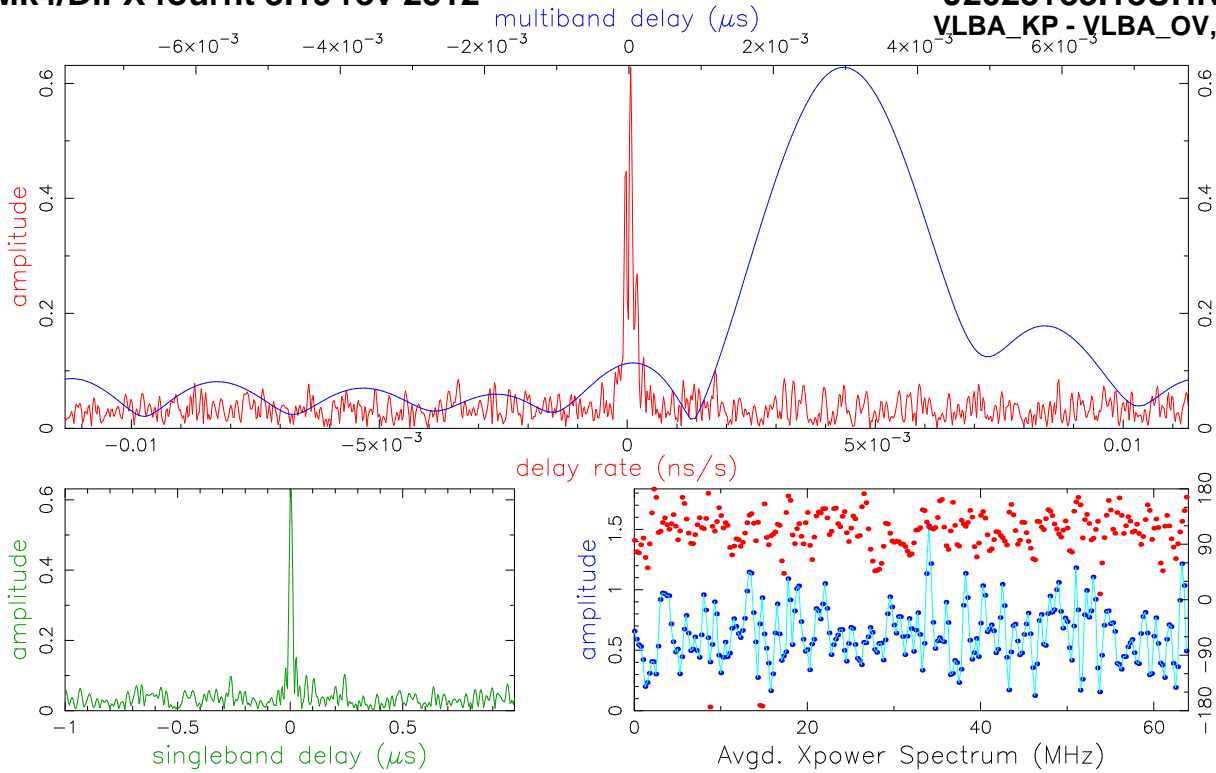
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143651
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-62.6	27.1	-17.9	18.7	33.4	-10.3	-22.3	-4.7	Phase	-7.0
	0.1	0.2	0.2	0.1	0.1	0.3	0.2	0.1	Ampl.	0.2
	204.9	293.0	193.2	114.2	400.1	17.4	18.9	9.4	Sbd box	17.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	2.66803131485E+03		Apriori delay (usec)		2.66896138139E+03		Resid mbdelay (usec)		-8.19153E-03	+/- 1.9E-04
Sband delay (usec)	2.66802705289E+03		Apriori clock (usec)		-1.6189924E+01		Resid sbdelay (usec)		-9.34328E-01	+/- 1.5E-03
Phase delay (usec)	2.66896138116E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-2.25143E-07	+/- 6.5E-07
Delay rate (us/s)	-2.68320985812E-02		Apriori rate (us/s)		-2.68308702328E-02		Resid rate (us/s)		-1.22835E-06	+/- 6.2E-09
Total phase (deg)	134.3		Apriori accel (us/s/s)		-2.02606161374E-05		Resid phase (deg)		-7.0	+/- 20.1

ph/seg (deg) 61.3 47.2 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.4 82.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.9 28.5 Inc. seg. avg. 0.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.1 49.7 Inc. frq. avg. 0.156 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 69.5 el 39.4 pa -75.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 169.086 -1767.697 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fo.W.87.18UHRL

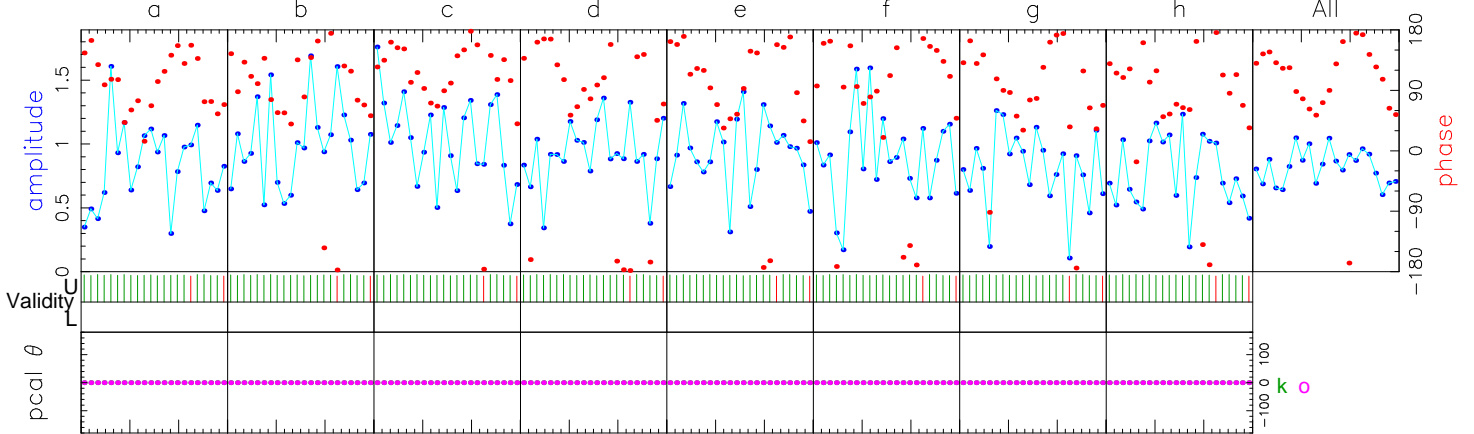


Fringe quality 9

SNR 22.9
Int time 175.754
Amp 0.631
Phase 117.4
PFD 0.0e+00
Delays (us)
SBD 0.002991
MBD 0.002957
Fringe rate (Hz) 0.005391
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143655
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

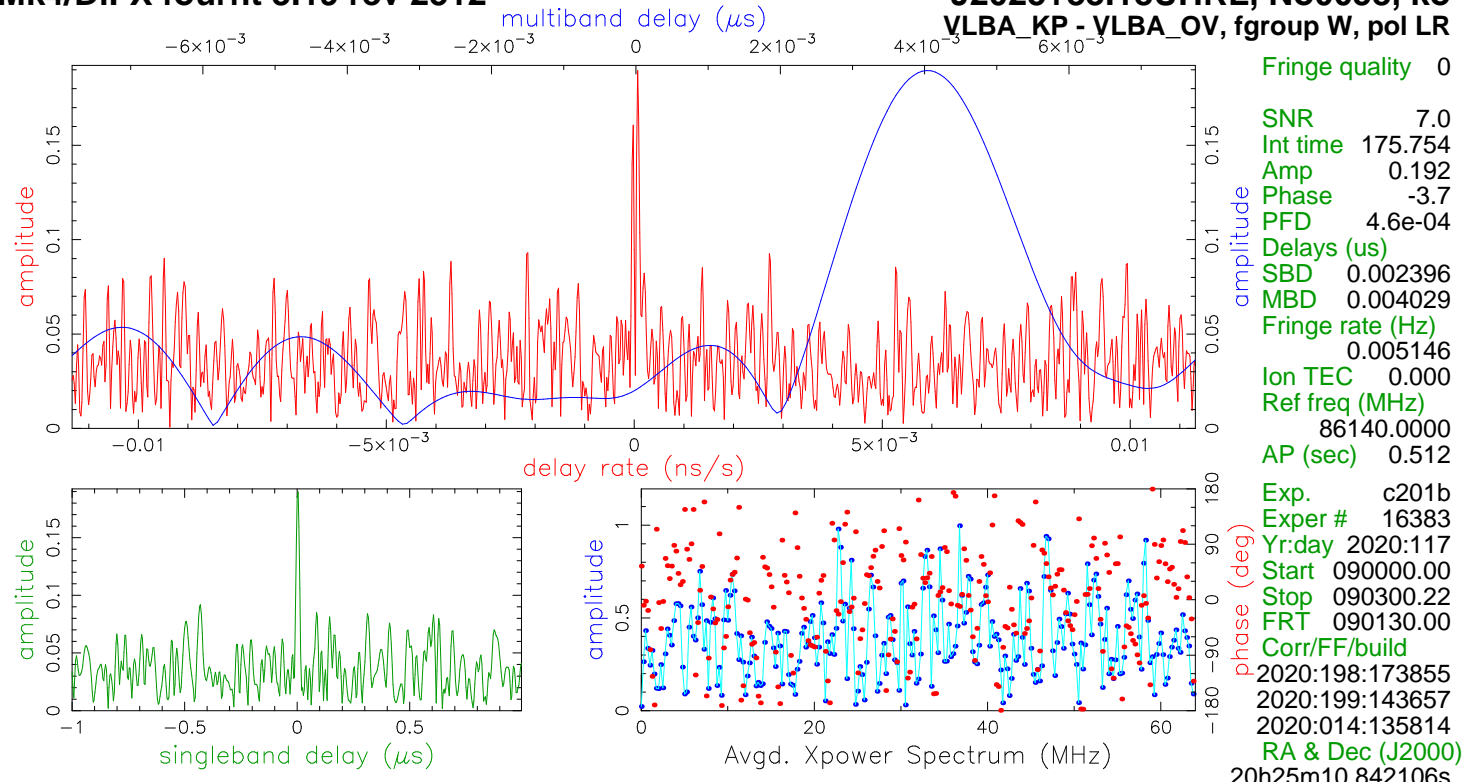


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	9.86115584859E+02		Apriori delay (usec)		9.86112627522E+02		Resid mbdelay (usec)		2.95734E-03	+/- 4.7E-05
Sband delay (usec)	9.86115618772E+02		Apriori clock (usec)		-2.0434479E+01		Resid sbdelay (usec)		2.99125E-03	+/- 3.8E-04
Phase delay (usec)	9.86112631309E+02		Apriori clockrate (us/s)		-1.9560001E-07		Resid phdelay (usec)		3.78646E-06	+/- 1.6E-07
Delay rate (us/s)	2.39028088366E-02		Apriori rate (us/s)		2.39027462582E-02		Resid rate (us/s)		6.25784E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.00984490377E-05		Resid phase (deg)		117.4	+/- 5.0

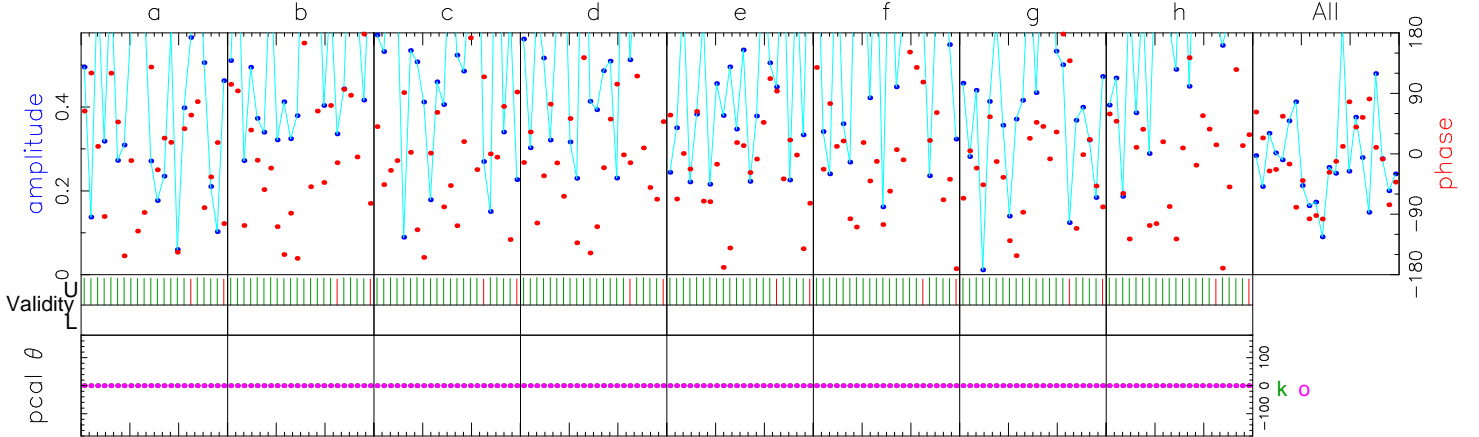
ph/seg (deg) 40.7 11.7 Search (1024X32) 0.623 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 36.5 20.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 11.8 7.1 Inc. seg. avg. 0.806 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 16.8 12.4 Inc. frq. avg. 0.633 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 68.2 el 33.7 pa -71.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) -172.923 -1086.793 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ko..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ko.W.102.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, ko
VLBA_KP - VLBA_OV, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	13.4	32.3	-24.2	-7.4	-13.2	-3.1	-8.0	9.9	Phase	-3.7
	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	Ampl.	0.2
	412.2	67.1	255.9	499.0	205.7	179.5	256.8	256.6	Sbd box	257.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.86116656515E+02		Apriori delay (usec)		9.86112627522E+02		Resid mbdelay (usec)		4.02899E-03	+/- 1.6E-04
Sband delay (usec)	9.86115023522E+02		Apriori clock (usec)		-2.0434479E+01		Resid sbdelay (usec)		2.39600E-03	+/- 1.2E-03
Phase delay (usec)	9.86112627404E+02		Apriori clockrate (us/s)		-1.9560001E-07		Resid phdelay (usec)		-1.17882E-07	+/- 5.3E-07
Delay rate (us/s)	2.39028059981E-02		Apriori rate (us/s)		2.39027462582E-02		Resid rate (us/s)		5.97399E-08	+/- 5.1E-09
Total phase (deg)	260.9		Apriori accel (us/s/s)		-1.00984490377E-05		Resid phase (deg)		-3.7	+/- 16.4

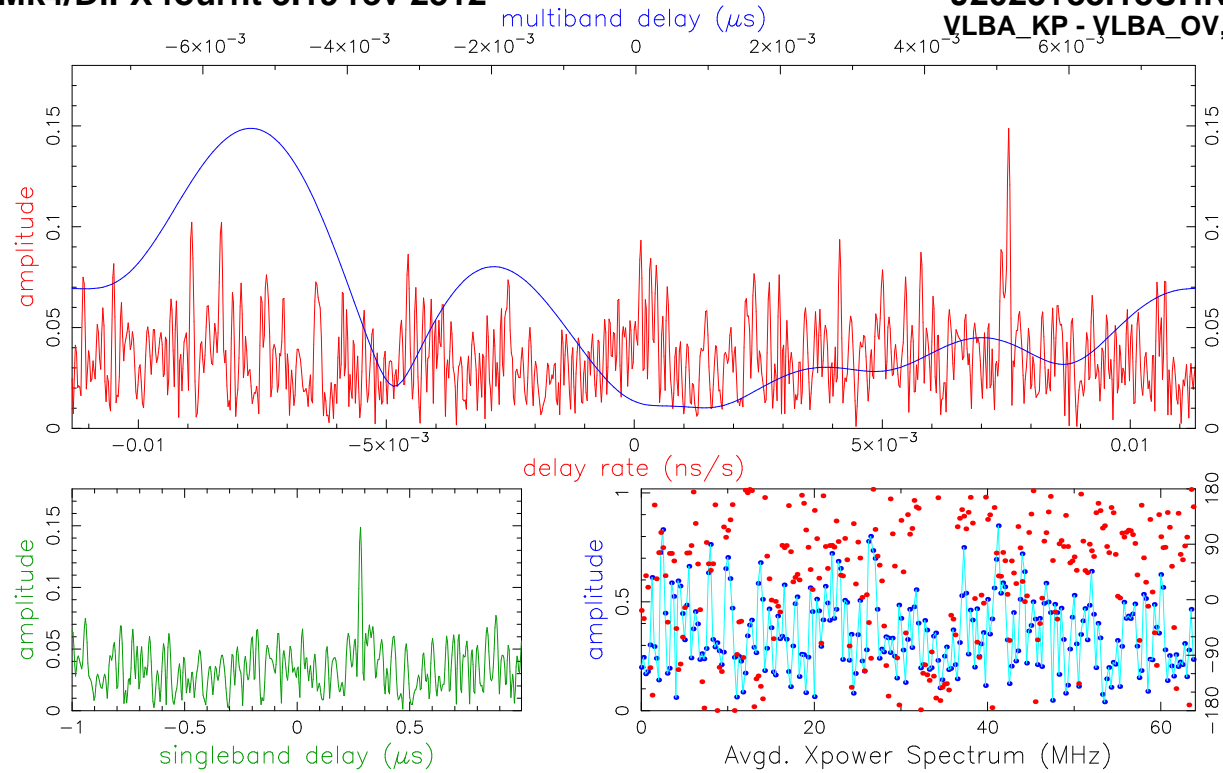
	RMS	Theor.	Amplitude	0.192 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	55.9	38.5	Search (1024X32)	0.188	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	74.3	67.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	19.6	23.2	Inc. seg. avg.	0.229	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	29.5	40.6	Inc. frq. avg.	0.181	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 68.2 el 33.7 pa -71.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) -172.923 -1086.793 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ko..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ko.W.117.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, ko
VLBA_KP - VLBA_OV, fgroup W, pol RL

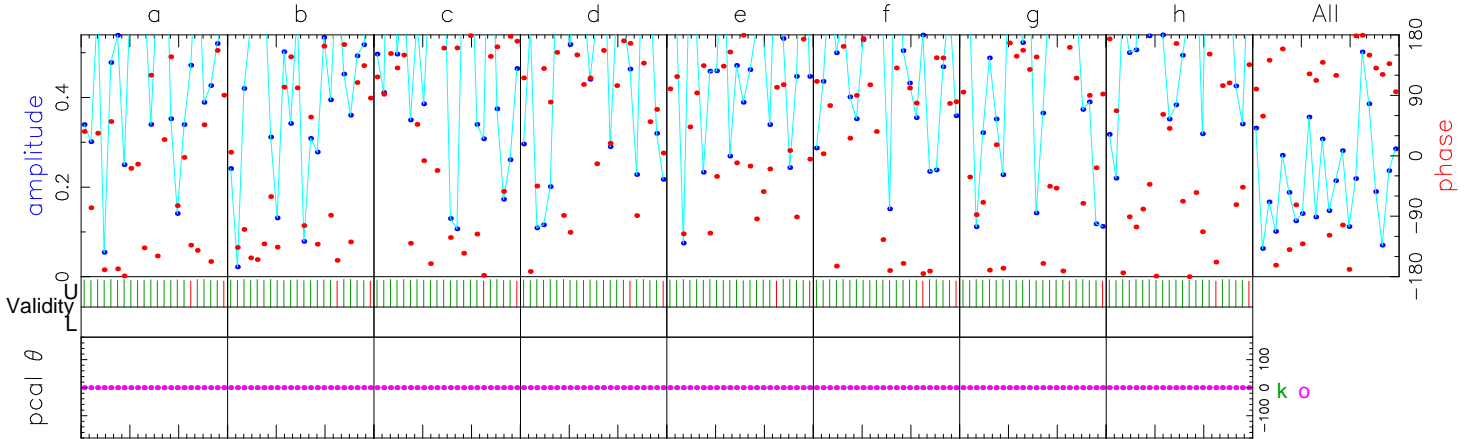


Fringe quality 0

SNR 5.4
Int time 175.754
Amp 0.180
Phase 153.7
PFD 1.0e+00
Delays (us)
SBD 0.280919
MBD -0.005353
Fringe rate (Hz) 0.650609
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

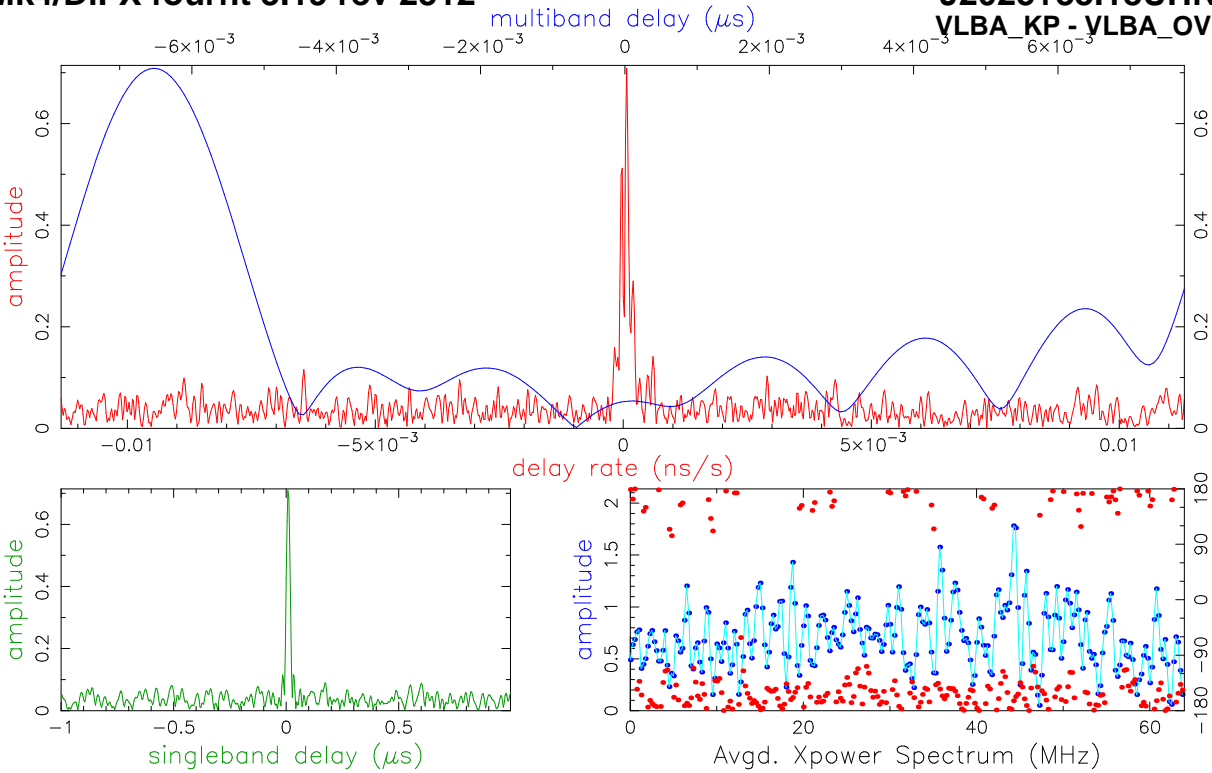
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143659
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	9.86388524047E+02					9.86112627522E+02			-5.35348E-03	+/- 2.0E-04
Sband delay (usec)	9.86393546522E+02					-2.0434479E+01			2.80919E-01	+/- 1.6E-03
Phase delay (usec)	9.86112632480E+02					-1.9560001E-07			4.95797E-06	+/- 6.8E-07
Delay rate (us/s)	2.39102991834E-02					2.39027462582E-02			7.55293E-06	+/- 6.6E-09
Total phase (deg)			58.3			-1.00984490377E-05			153.7	+/- 21.2
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000							
Bits/sample:	2x2		SampCntNorm: enabled							
Sample rate (MSamp/s):	128		dr window (ns/s) -0.011 0.011							
Data rate (Mb/s):	2048		ion window (TEC) 0.00 0.00							
nlags:	256		t_cohere infinite							

ph/seg (deg) 57.4 49.8 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 87.0 86.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 56.7 30.0 Inc. seg. avg. 0.192 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 60.7 52.4 Inc. frq. avg. 0.182 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 68.2 el 33.7 pa -71.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) -172.923 -1086.793 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ko..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ko.W.128.18UHRL

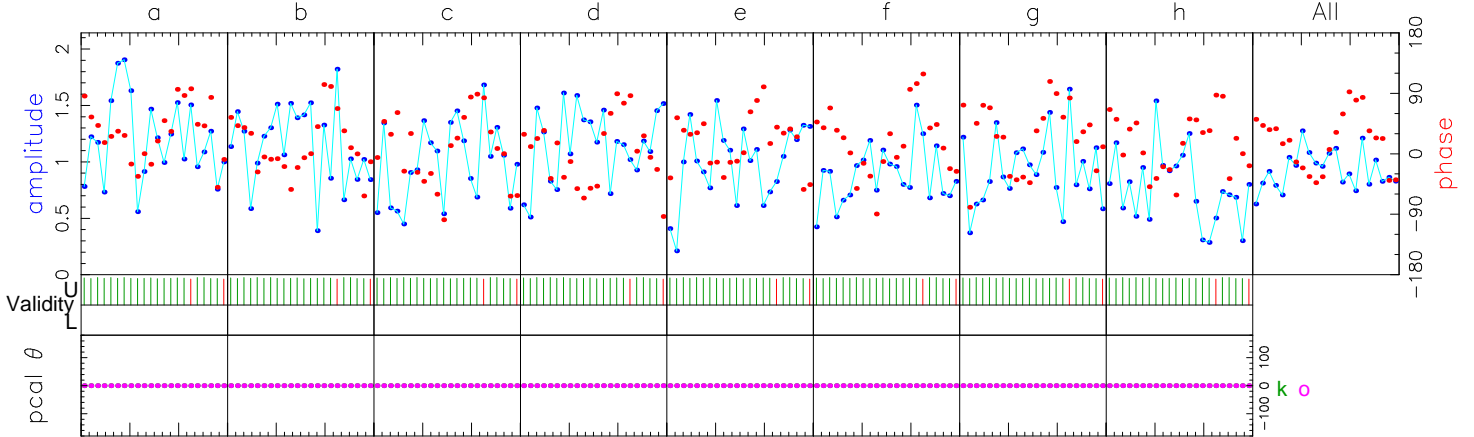


Fringe quality 8

SNR 25.9
Int time 175.754
Amp 0.715
Phase 16.8
PFD 0.0e+00
Delays (us)
SBD 0.009010
MBD -0.006502
Fringe rate (Hz) 0.005359
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

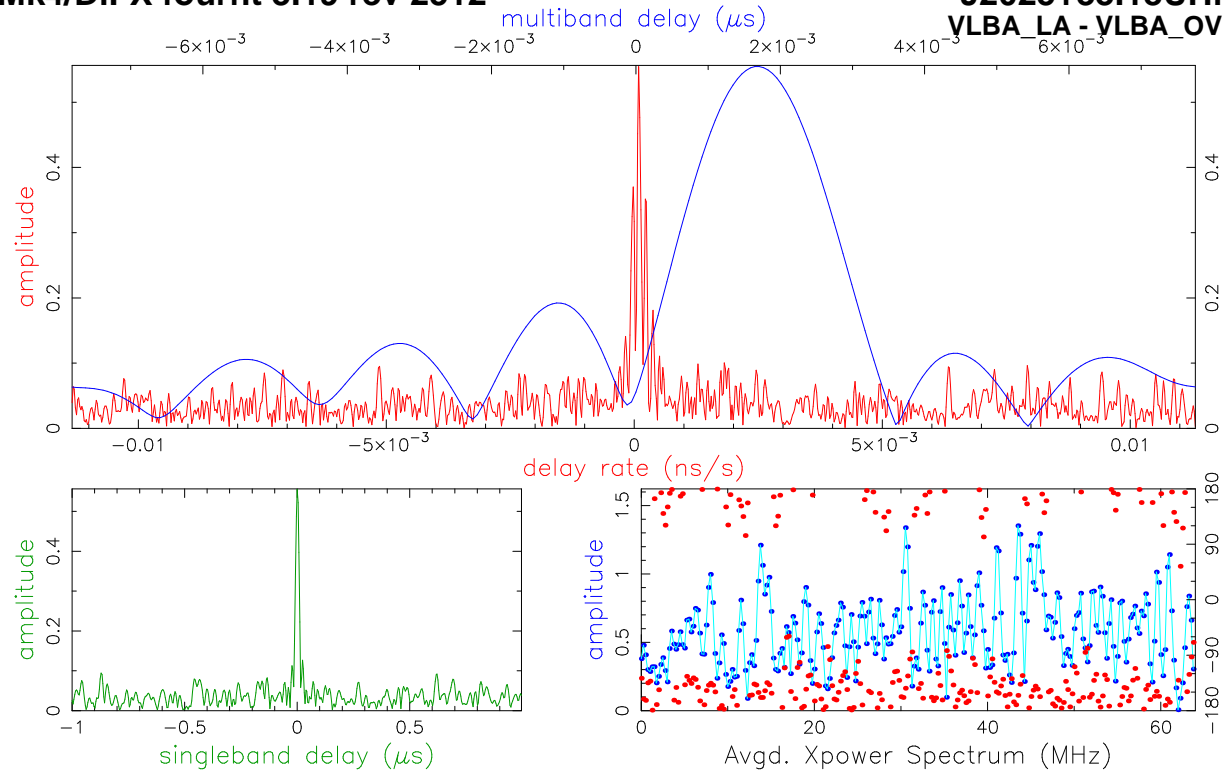
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143653
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	9.86121750890E+02				9.86112627522E+02				-6.50163E-03	+/- 4.2E-05
Sband delay (usec)	9.86121637272E+02				-2.0434479E+01				9.00975E-03	+/- 3.3E-04
Phase delay (usec)	9.86112628062E+02				-1.9560001E-07				5.40203E-07	+/- 1.4E-07
Delay rate (us/s)	2.39028084767E-02				2.39027462582E-02				6.22184E-08	+/- 1.4E-09
Total phase (deg)			281.3		-1.00984490377E-05				16.8	+/- 4.4
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (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) 40.6 10.4 Search (1024X32) 0.693 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 37.0 18.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.8 6.3 Inc. seg. avg. 0.910 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.0 10.9 Inc. frq. avg. 0.721 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 68.2 el 33.7 pa -71.5 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) -172.923 -1086.793 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ko..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ko.W.94.18UHRL

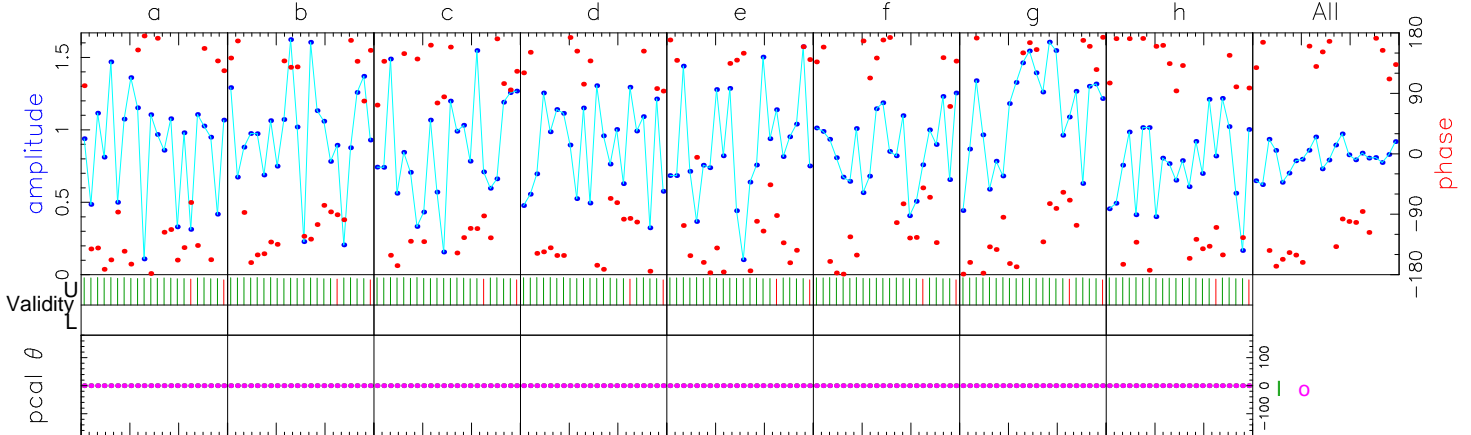


Fringe quality 9

SNR 20.2
Int time 175.546
Amp 0.557
Phase -167.5
PFD 0.0e+00
Delays (us)
SBD 0.000694
MBD 0.001704
Fringe rate (Hz) 0.007919
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143655
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



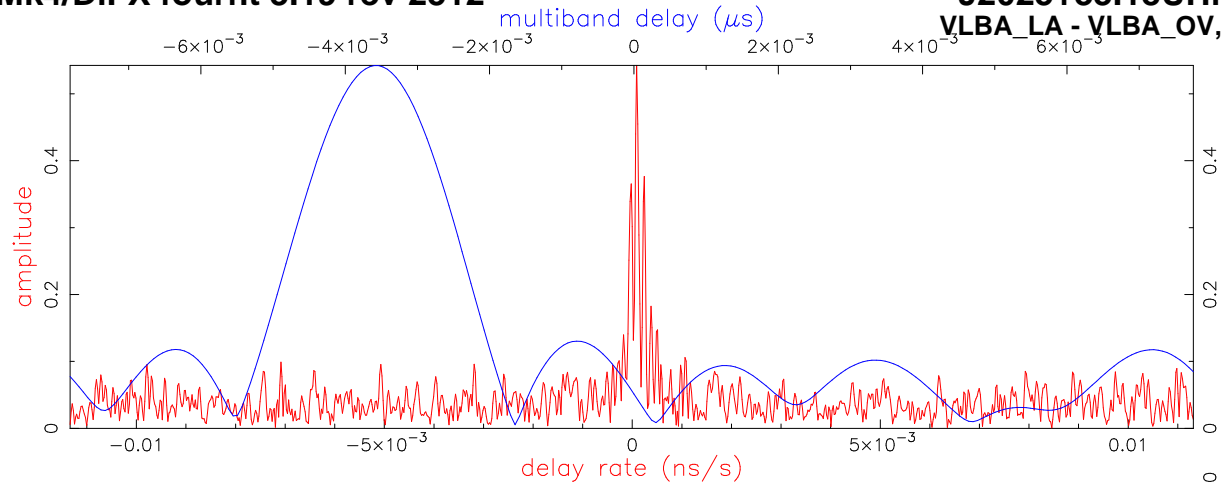
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.61055753637E+03	Apriori delay (usec)	2.61055583208E+03	Resid mbdelay (usec)	1.70429E-03	+/-	5.4E-05
Sband delay (usec)	2.61055652583E+03	Apriori clock (usec)	-2.3796452E+01	Resid sbdelay (usec)	6.93750E-04	+/-	4.3E-04
Phase delay (usec)	2.61055582668E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-5.40207E-06	+/-	1.8E-07
Delay rate (us/s)	-6.14257165887E-02	Apriori rate (us/s)	-6.14258085240E-02	Resid rate (us/s)	9.19353E-08	+/-	1.8E-09
Total phase (deg)	-32.3	Apriori accel (us/s/s)	-1.52849568992E-05	Resid phase (deg)	-167.5	+/-	5.7

ph/seg (deg)	47.1	RMS	13.3	Theor.	47.1	Amplitude	0.557 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	48.3	Search (1024X32)	0.541	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	11.5	Inc. seg. avg.	0.787	Inc. frq. avg.	0.558	Bits/sample:	2x2	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	14.9	Inc. frq. avg.	0.558	Inc. frq. avg.	0.558	Data rate (Mb/s):	2048	nlags:	256	ion window (TEC)	0.00	0.00		

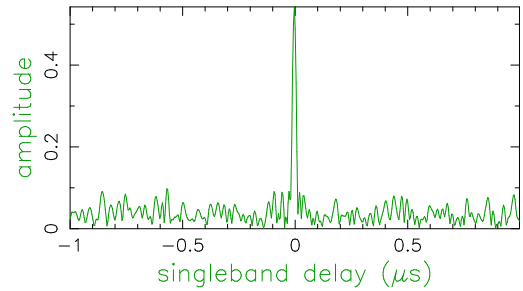
l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.104.18UHRL

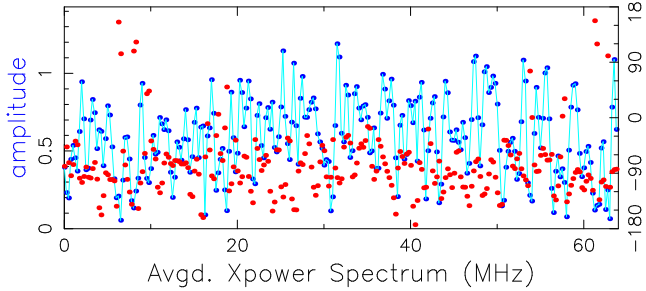


Fringe quality 9

SNR 19.7
Int time 175.546
Amp 0.542
Phase -92.6
PFD 0.0e+00
Delays (us)
SBD -0.004111
MBD -0.003579
Fringe rate (Hz) 0.007627
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

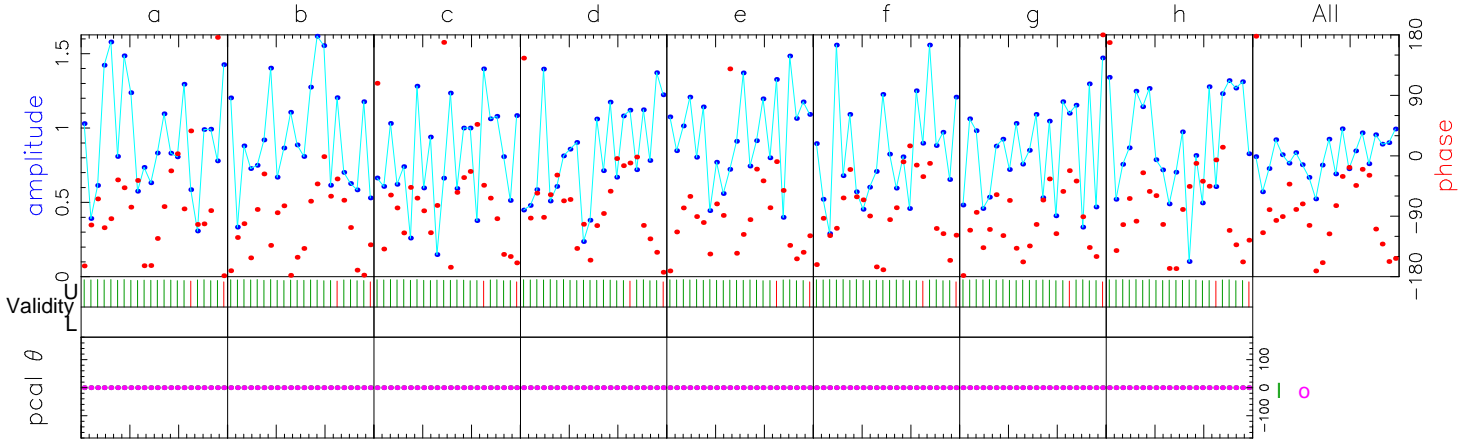


delay rate (ns/s)



Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143657
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

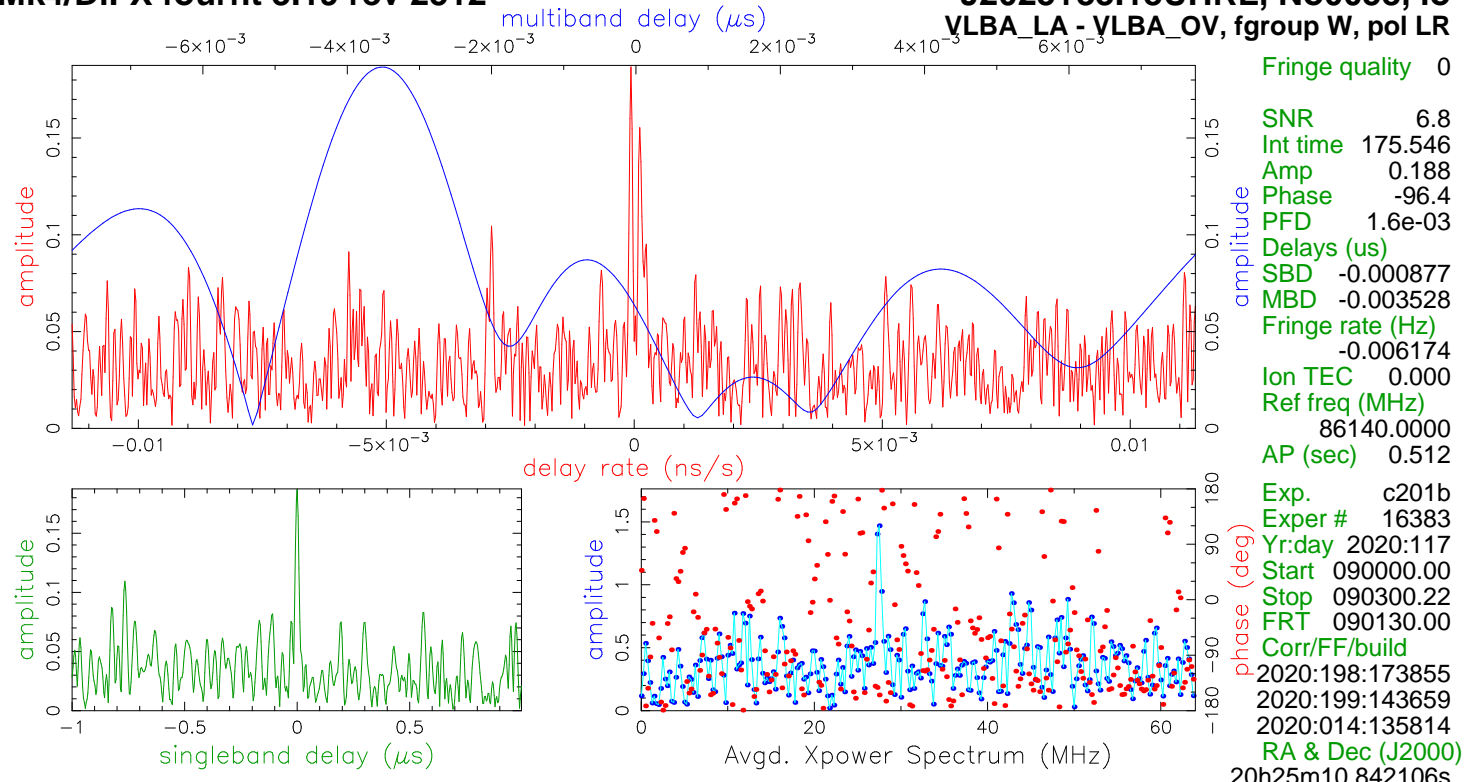


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-91.7	-99.3	-89.7	-82.9	-101.1	-82.8	-101.0	-88.2	Phase	-92.6
	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.5	Ampl.	0.5
	255.2	255.8	255.6	256.2	256.2	256.2	256.2	255.9	Sbd box	255.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

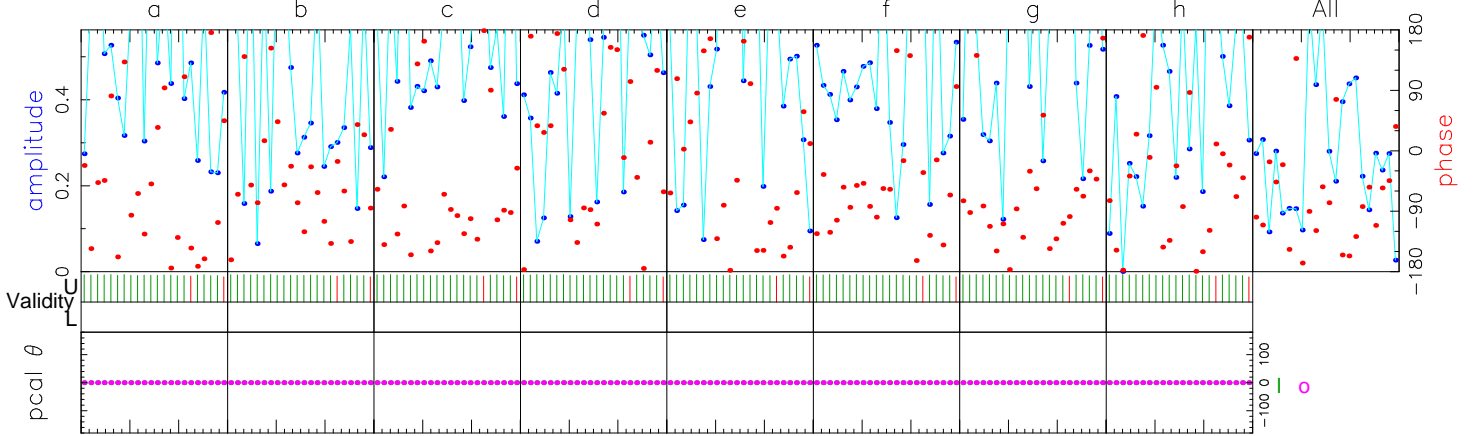
Group delay (usec)(sbd)	2.61055225312E+03	Apriori delay (usec)	2.61055583208E+03	Resid mbdelay (usec)	-3.57896E-03	+/-	5.5E-05
Sband delay (usec)	2.61055172108E+03	Apriori clock (usec)	-2.3796452E+01	Resid sbdelay (usec)	-4.11100E-03	+/-	4.4E-04
Phase delay (usec)	2.61055582910E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-2.98511E-06	+/-	1.9E-07
Delay rate (us/s)	-6.14257199855E-02	Apriori rate (us/s)	-6.14258085240E-02	Resid rate (us/s)	8.85385E-08	+/-	1.8E-09
Total phase (deg)	42.6	Apriori accel (us/s/s)	-1.52849568992E-05	Resid phase (deg)	-92.6	+/-	5.8

ph/seg (deg)	49.4	RMS	13.7	Theor.	13.7	Amplitude	0.542 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	54.3	Search (1024X32)	0.535	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	8.2	Inc. seg. avg.	0.786	Inc. frq. avg.	0.541	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	9.9	Inc. frq. avg.	0.541	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.115.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.3	-49.2	-107.2	160.1	-113.8	-72.5	-101.0	-79.8	Phase	-96.4
	0.2	0.2	0.3	0.1	0.1	0.2	0.4	0.1	Ampl.	0.2
	133.5	285.7	256.0	462.4	7.9	118.3	257.0	166.2	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.61055230393E+03	Apriori delay (usec)	2.61055583208E+03	Resid mbdelay (usec)	-3.52815E-03	+/-	1.6E-04
Sband delay (usec)	2.61055495508E+03	Apriori clock (usec)	-2.3796452E+01	Resid sbdelay (usec)	-8.77000E-04	+/-	1.3E-03
Phase delay (usec)	2.61055582897E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-3.10736E-06	+/-	5.4E-07
Delay rate (us/s)	-6.14258802003E-02	Apriori rate (us/s)	-6.14258085240E-02	Resid rate (us/s)	-7.16763E-08	+/-	5.2E-09
Total phase (deg)	38.8	Apriori accel (us/s/s)	-1.52849568992E-05	Resid phase (deg)	-96.4	+/-	16.9

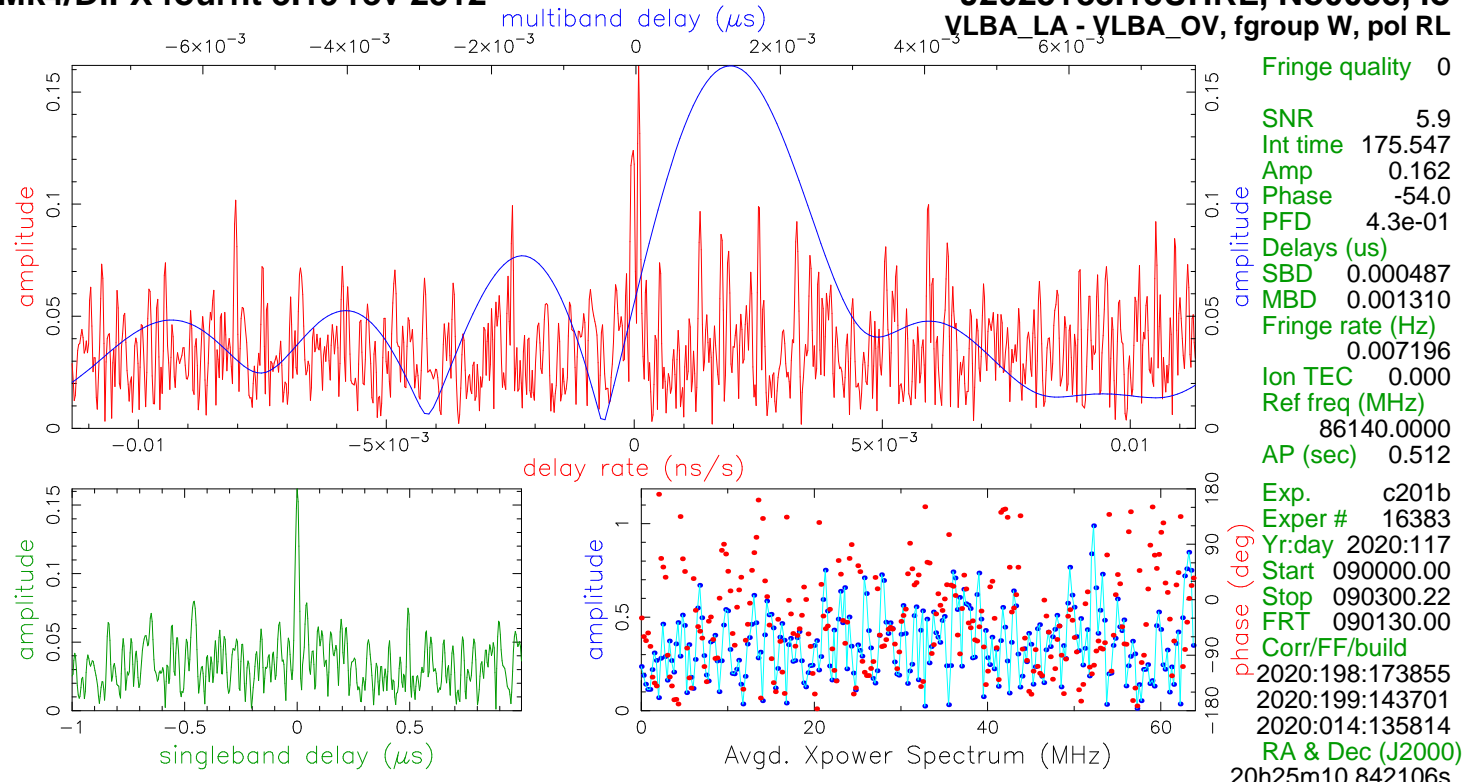
ph/seg (deg)	68.4	Theor.	39.6	Amplitude	0.188 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	97.1		69.0	Search (1024X32)	0.184	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	48.9		23.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	52.8		41.6	Inc. seg. avg.	0.225	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.204	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator

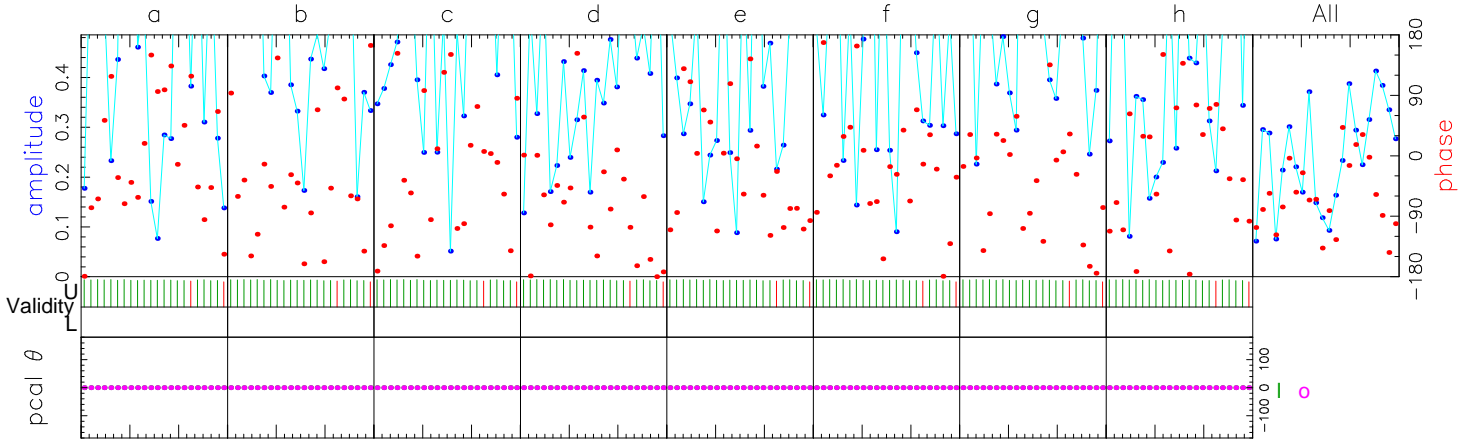
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.126.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, lo
VLBA_LA - VLBA_OV, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



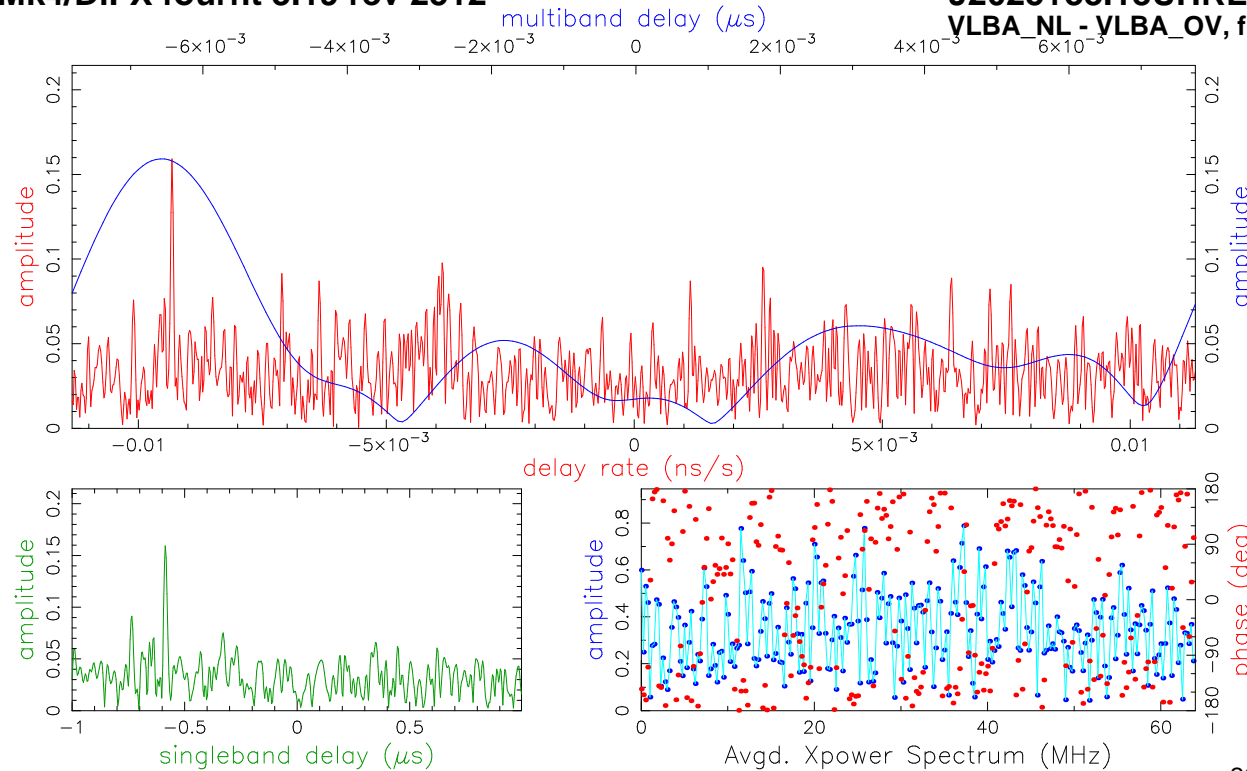
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.7	-85.5	-60.5	-92.7	-56.3	-33.7	-41.8	-81.5	Phase	-54.0
	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	245.6	503.5	285.0	409.6	210.3	372.7	256.4	208.9	Sbd box	257.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	2.61055714219E+03	Apriori delay (usec)	2.61055583208E+03	Resid mbdelay (usec)	1.31010E-03	+/-	1.9E-04
Sband delay (usec)	2.61055631858E+03	Apriori clock (usec)	-2.3796452E+01	Resid sbdelay (usec)	4.86500E-04	+/-	1.5E-03
Phase delay (usec)	2.61055583034E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-1.74119E-06	+/-	6.3E-07
Delay rate (us/s)	-6.14257249837E-02	Apriori rate (us/s)	-6.14258085240E-02	Resid rate (us/s)	8.35404E-08	+/-	6.1E-09
Total phase (deg)	81.2	Apriori accel (us/s/s)	-1.52849568992E-05	Resid phase (deg)	-54.0	+/-	19.5

ph/seg (deg)	52.8	Theor.	45.8	Amplitude	0.162 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.4		80.0	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	27.2		27.6	Inc. seg. avg.	0.186	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.8		48.2	Inc. frq. avg.	0.157	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.137.18UHRL

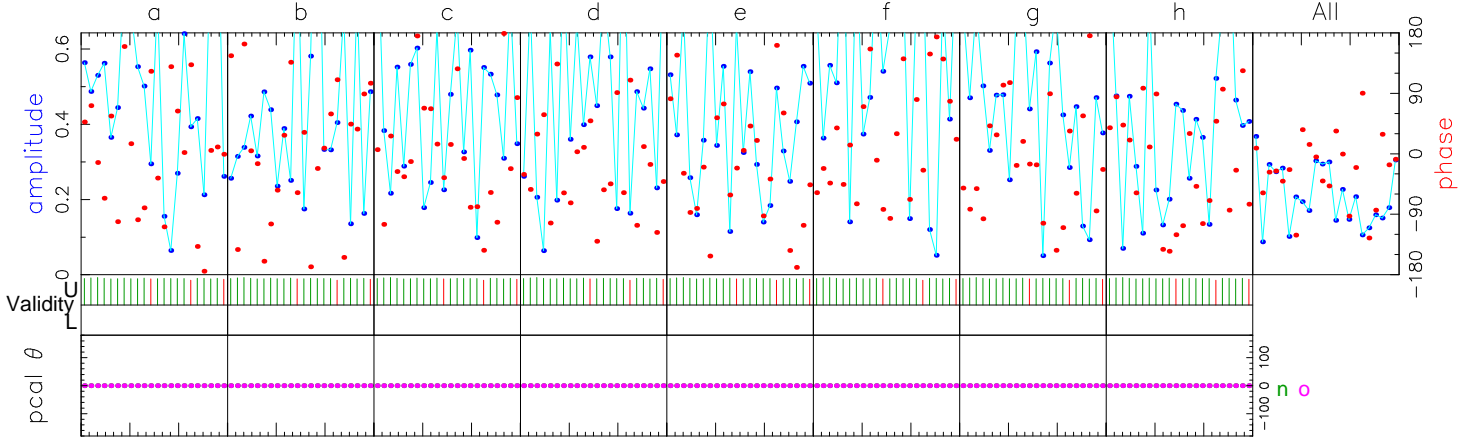


Fringe quality 0

SNR 5.7
 Int time 173.302
 Amp 0.214
 Phase -21.6
 PFD 7.0e-01
 Delays (us)
 SBD -0.585512
 MBD -0.006556
 Fringe rate (Hz)
 -0.804616
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143704
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	5.84152292990E+03	5.84152209913E+03	5.84210761044E+03	5.84210761113E+03	5.84210761133E+03	5.84210761133E+03	5.84210761133E+03	5.84210761133E+03		
Sband delay (usec)	5.84152209913E+03	5.84152209913E+03	5.84210761044E+03	5.84210761113E+03	5.84210761133E+03	5.84210761133E+03	5.84210761133E+03	5.84210761133E+03		
Phase delay (usec)	5.84210761044E+03	5.84210761044E+03	5.84210761044E+03	5.84210761044E+03	5.84210761044E+03	5.84210761044E+03	5.84210761044E+03	5.84210761044E+03		
Delay rate (us/s)	-2.76805428962E-01	-2.76805428962E-01	-2.76805428962E-01	-2.76805428962E-01	-2.76805428962E-01	-2.76805428962E-01	-2.76805428962E-01	-2.76805428962E-01		
Total phase (deg)			202.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 50.6 46.8 46.8 46.8 46.8 46.8 46.8 46.8 46.8 46.8 46.8

amp/seg (%) 58.9 81.7 81.7 81.7 81.7 81.7 81.7 81.7 81.7 81.7 81.7

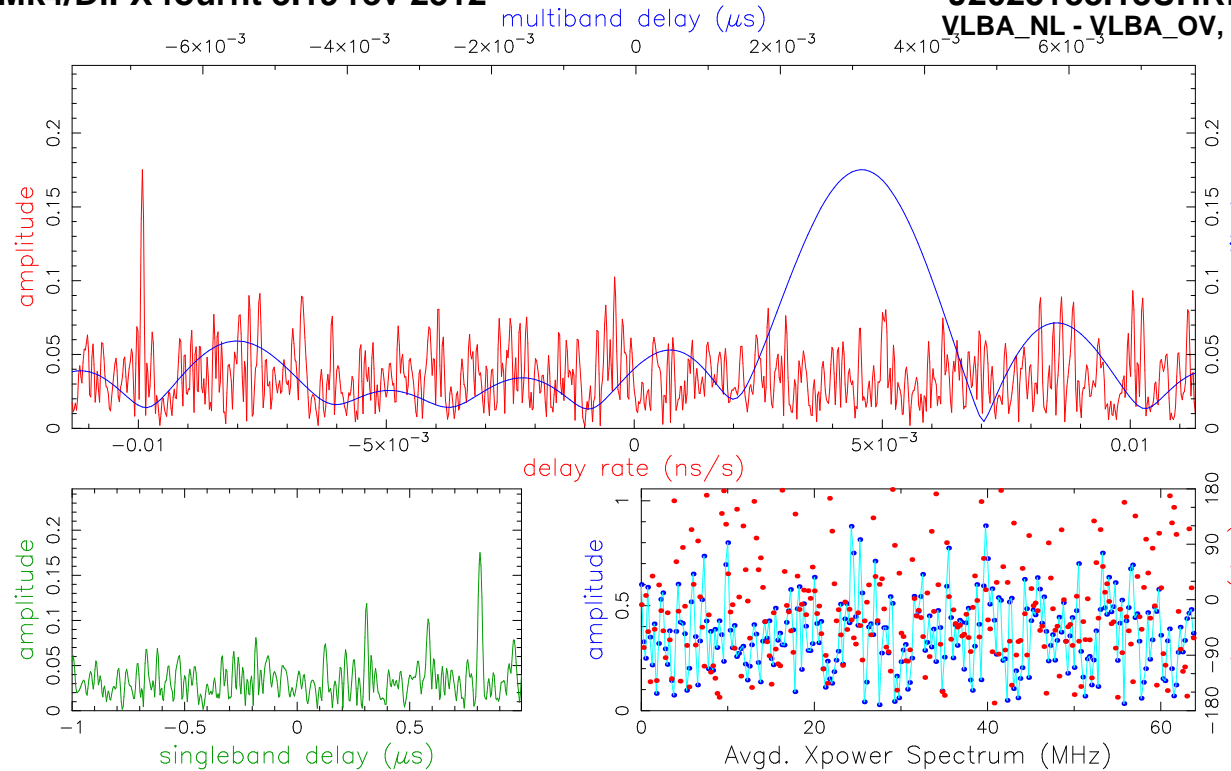
ph/frq (deg) 15.8 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.2 28.2

amp/frq (%) 49.1 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3

n: az 85.8 el 51.6 pa -63.4 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1888.438 -988.407

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/no..18UHRL Output file: /Exps/c201b/v1/1234/No0058/no.W.154.18UHRL

simultaneous interpolator

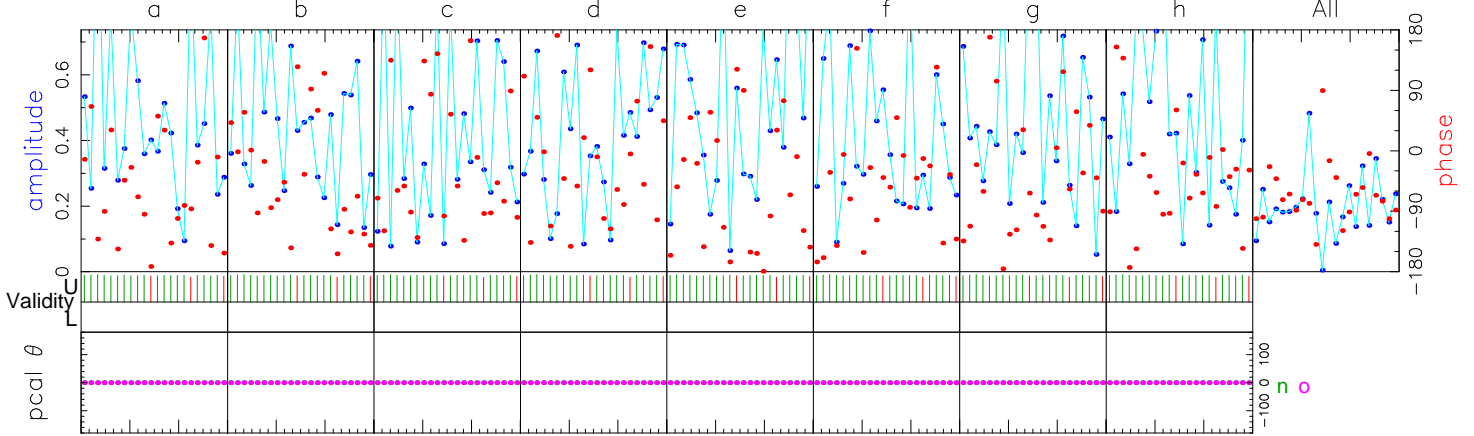


Fringe quality 0

SNR 6.3
 Int time 173.302
 Amp 0.246
 Phase -72.9
 PFD 3.8e-02
 Delays (us)
 SBD 0.812371
 MBD 0.003123
 Fringe rate (Hz) -0.855946
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143707
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

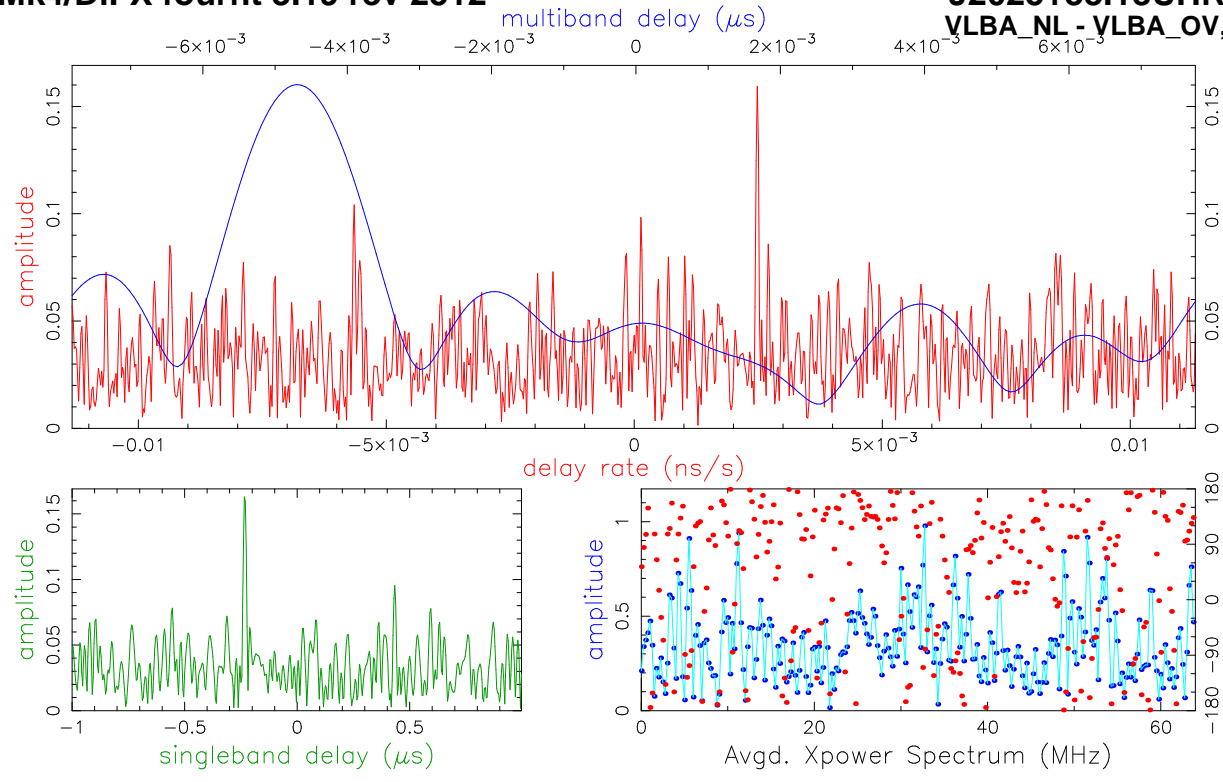


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	5.84292323372E+03		Apriori delay (usec)		5.84210761113E+03		Resid mbdelay (usec)		3.12258E-03	+/- 1.7E-04
Sband delay (usec)	5.84291998238E+03		Apriori clock (usec)		1.2200686E+01		Resid sbdelay (usec)		8.12371E-01	+/- 1.4E-03
Phase delay (usec)	5.84210760878E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		-2.35000E-06	+/- 5.9E-07
Delay rate (us/s)	-2.76806024846E-01		Apriori rate (us/s)		-2.76796088163E-01		Resid rate (us/s)		-9.93668E-06	+/- 5.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.71716504466E-05		Resid phase (deg)		-72.9	+/- 18.2

ph/seg (deg) 47.2 42.6 Search (1024X32) 0.170 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.4 74.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.2 25.7 Inc. seg. avg. 0.221 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.6 44.8 Inc. frq. avg. 0.230 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 85.8 el 51.6 pa -63.4 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1888.438 -988.407 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/no..18UHRL Output file: /Exps/c201b/v1/1234/No0058/no.W.172.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, no VLBA_NL - VLBA_OV, fgroup W, pol LR

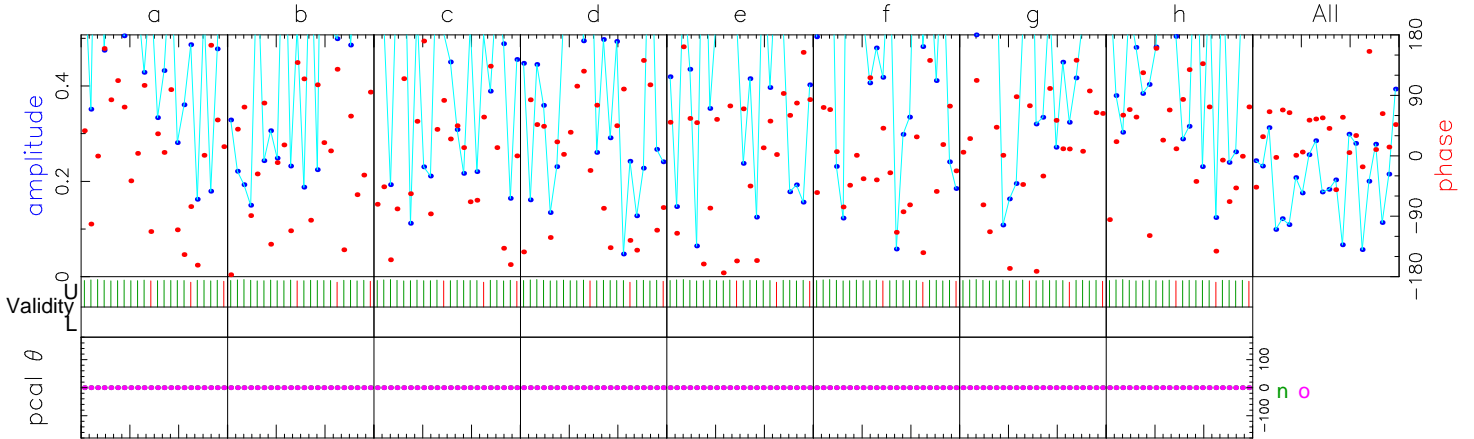


Fringe quality 0

SNR 6.0
 Int time 173.301
 Amp 0.169
 Phase 30.3
 PFD 2.6e-01
 Delays (us)
 SBD -0.232820
 MBD -0.004800
 Fringe rate (Hz) 0.213021
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143709
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



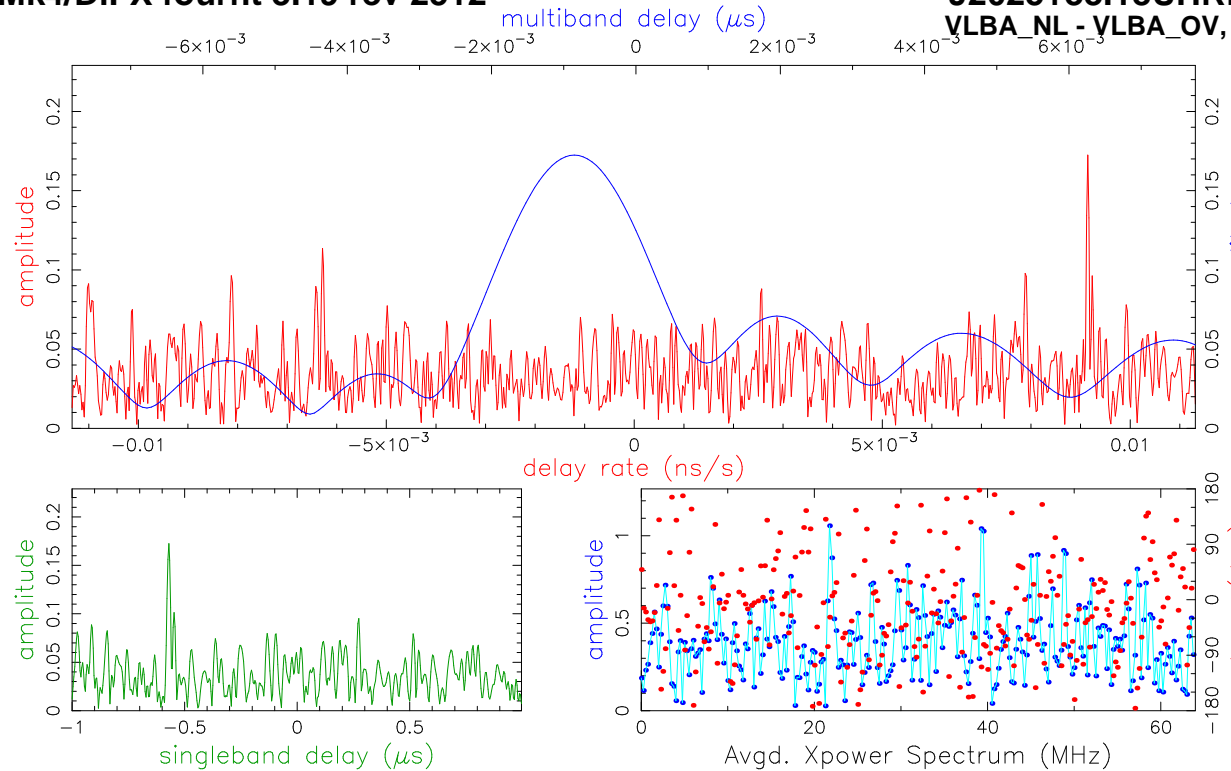
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	5.84186843654E+03	Apriori delay (usec)	5.84210761113E+03	Resid mbdelay (usec)	-4.79960E-03	+/-	1.8E-04
Sband delay (usec)	5.84187479088E+03	Apriori clock (usec)	1.2200686E+01	Resid sbdelay (usec)	-2.32820E-01	+/-	1.4E-03
Phase delay (usec)	5.84210761211E+03	Apriori clockrate (us/s)	1.3299997E-07	Resid phdelay (usec)	9.75488E-07	+/-	6.2E-07
Delay rate (us/s)	-2.76793615199E-01	Apriori rate (us/s)	-2.76796088163E-01	Resid rate (us/s)	2.47296E-06	+/-	5.9E-09
Total phase (deg)	254.6	Apriori accel (us/s/s)	-2.71716504466E-05	Resid phase (deg)	30.3	+/-	19.2

ph/seg (deg)	43.7	Theor.	45.0	Amplitude	0.169 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	56.0	Search (1024X32)	0.156	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	31.4	Inc. seg. avg.	0.160	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	35.3	Inc. frq. avg.	0.161	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
				Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00	
				nlags: 256		t_cohere infinite		

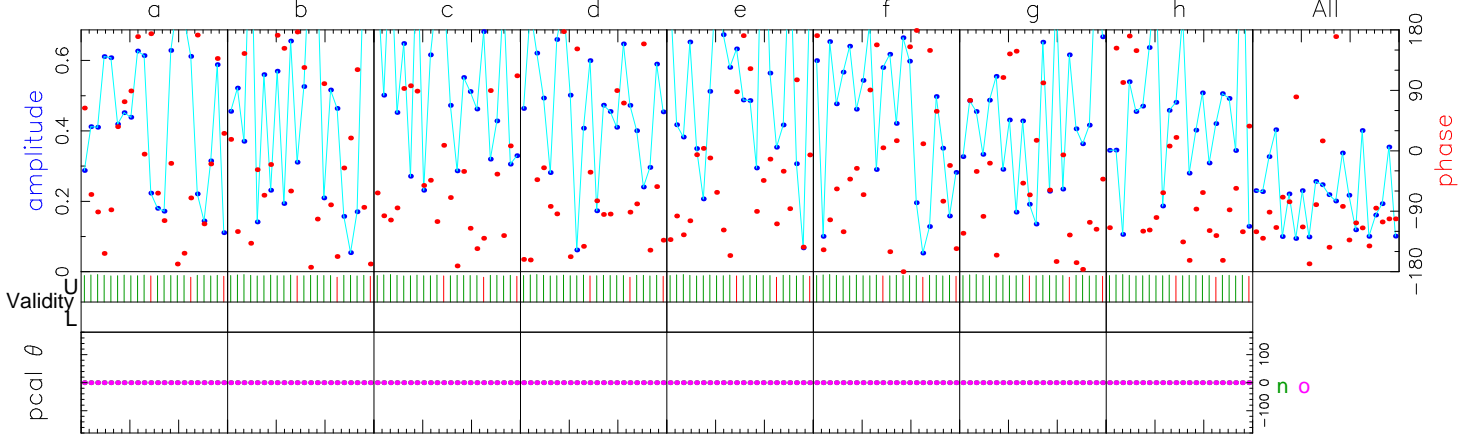
n: az 85.8 el 51.6 pa -63.4 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1888.438 -988.407 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/no..18UHRL Output file: /Exps/c201b/v1/1234/No0058/no.W.184.18UHRL



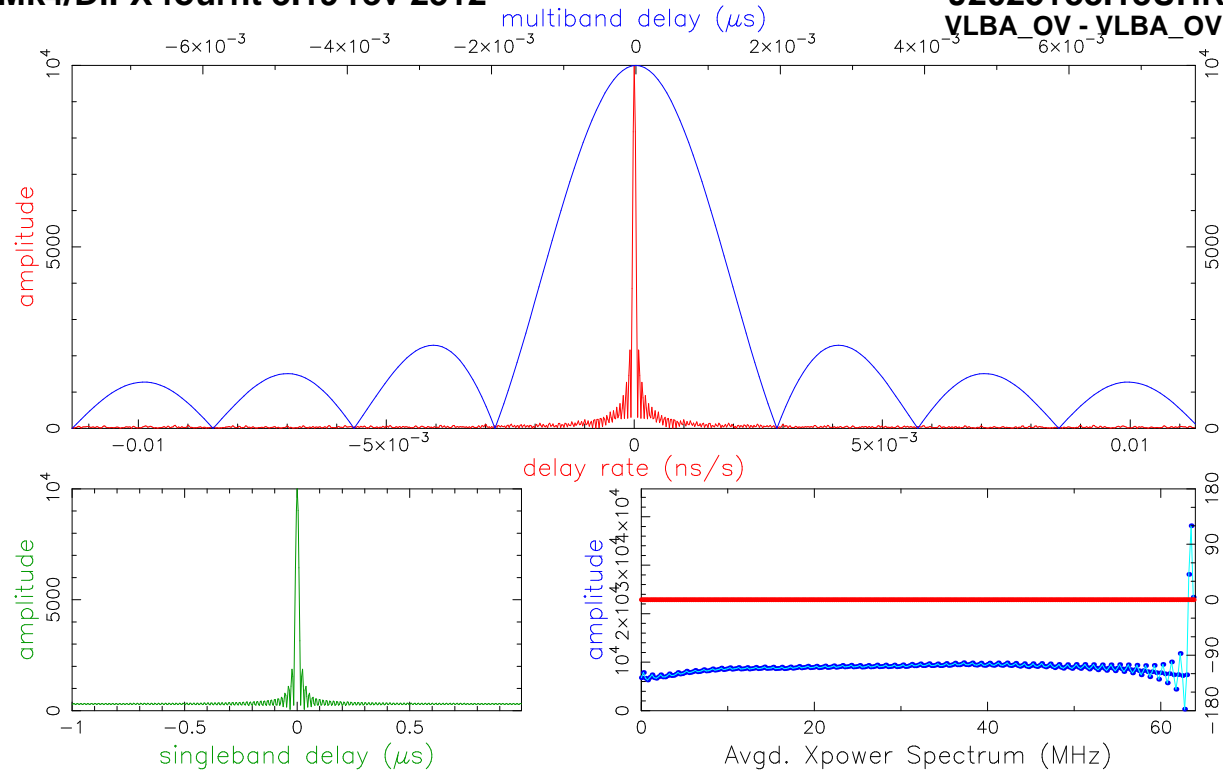
Fringe quality 0
 SNR 6.2
 Int time 173.302
 Amp 0.229
 Phase -107.2
 PFD 7.0e-02
 Delays (us)
 SBD -0.570304
 MBD -0.000854
 Fringe rate (Hz) 0.788178
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143712
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.9	-133.2	-80.8	-109.3	-75.6	-113.2	-120.1	-117.1	Phase	-107.2
	0.1	0.3	0.3	0.3	0.3	0.1	0.2	0.4	Ampl.	0.2
	161.1	289.0	433.5	91.6	165.1	119.9	351.0	111.1	Sbd box	111.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	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)	5.84154425711E+03		Apriori delay (usec)		5.84210761113E+03		Resid mbdelay (usec)		-8.54026E-04	+/- 1.7E-04
Sband delay (usec)	5.84153730688E+03		Apriori clock (usec)		1.2200686E+01		Resid sbdelay (usec)		-5.70304E-01	+/- 1.4E-03
Phase delay (usec)	5.84210760768E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		-3.45715E-06	+/- 6.0E-07
Delay rate (us/s)	-2.76786938203E-01		Apriori rate (us/s)		-2.76796088163E-01		Resid rate (us/s)		9.14996E-06	+/- 5.7E-09
Total phase (deg)	117.1		Apriori accel (us/s/s)		-2.71716504466E-05		Resid phase (deg)		-107.2	+/- 18.5

ph/seg (deg) 54.0 43.3 Search (1024X32) 0.167 Pcdl mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.6 75.6 Interp. 0.000 Pcdl rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.6 26.1 Inc. seg. avg. 0.227 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.6 45.6 Inc. frq. avg. 0.221 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 85.8 el 51.6 pa -63.4 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1888.438 -988.407 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/no..18UHRL Output file: /Exps/c201b/v1/1234/No0058/no.W.202.18UHRL

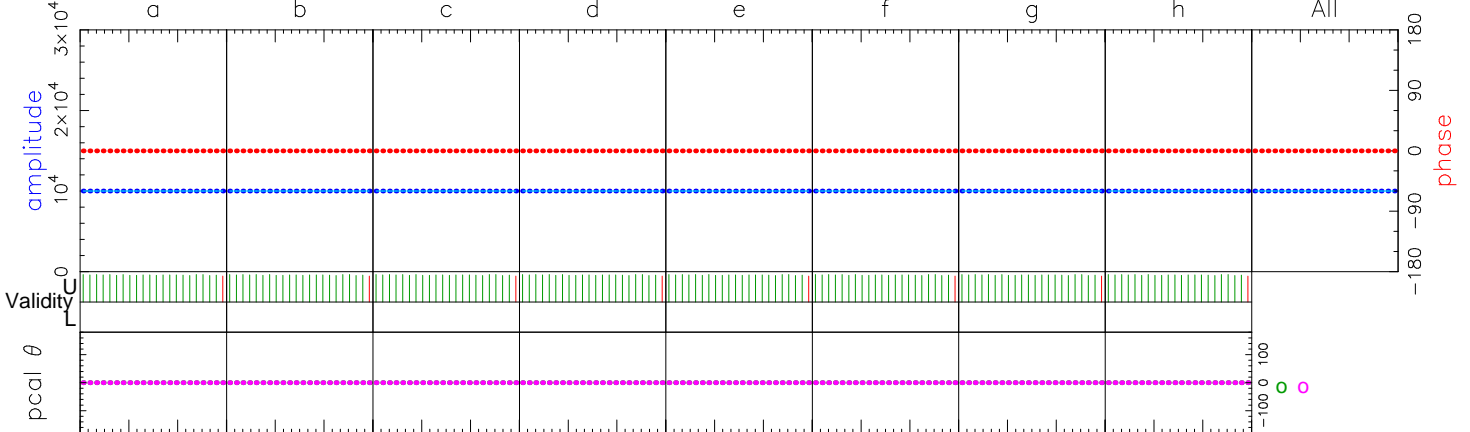


Fringe quality 9

SNR 363913.9
Int time 177.093
Amp 10000.010
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 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143703
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

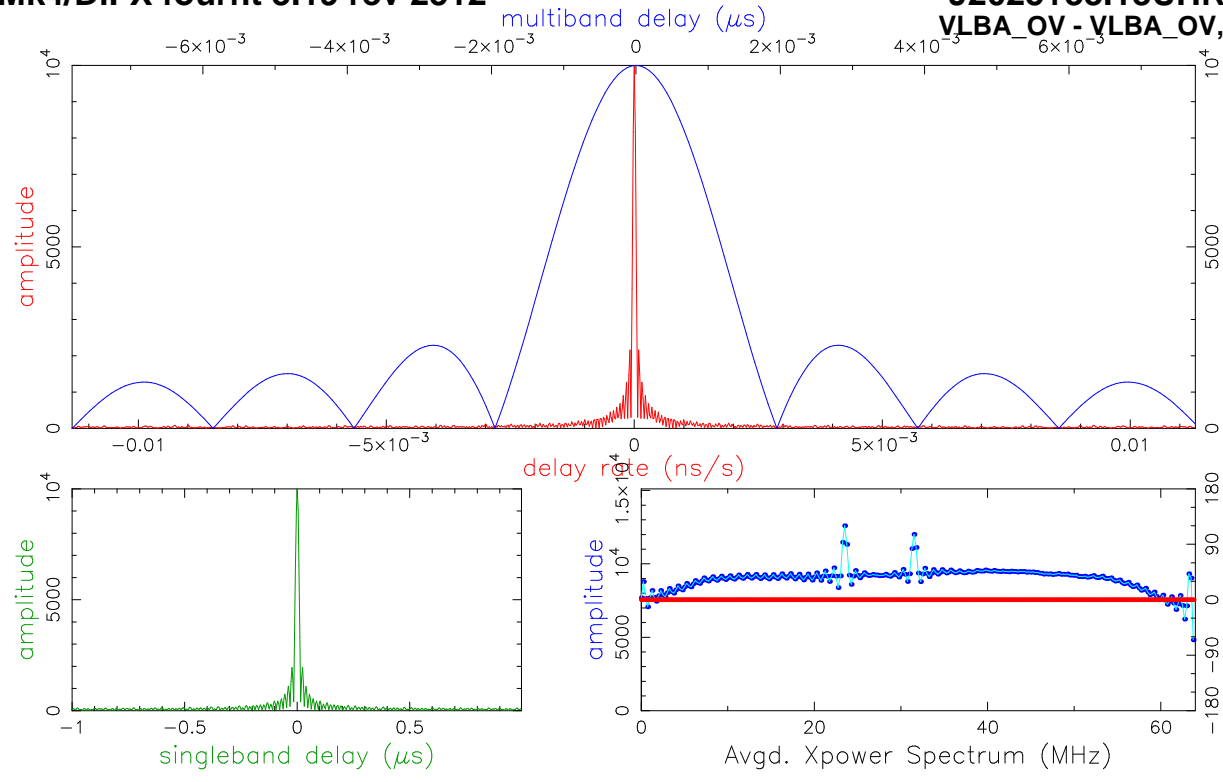


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.4E-08
 Phase delay (usec) 3.84522162504E-21 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 3.84522E-21 +/- 1.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.8E-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 0.0 RMS Theor. Amplitude 10000.010 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.009 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
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 68.8 el 30.5 pa -63.2 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/oo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/oo.W.150.18UHRL

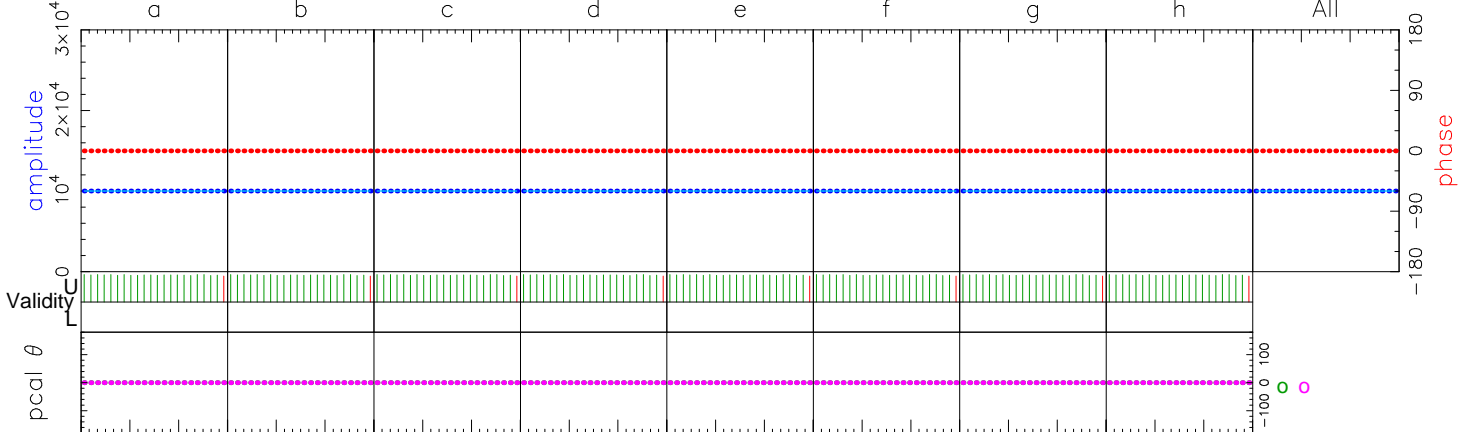


Fringe quality 9

SNR 363913.4
Int time 177.093
Amp 10000.006
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 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143708
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



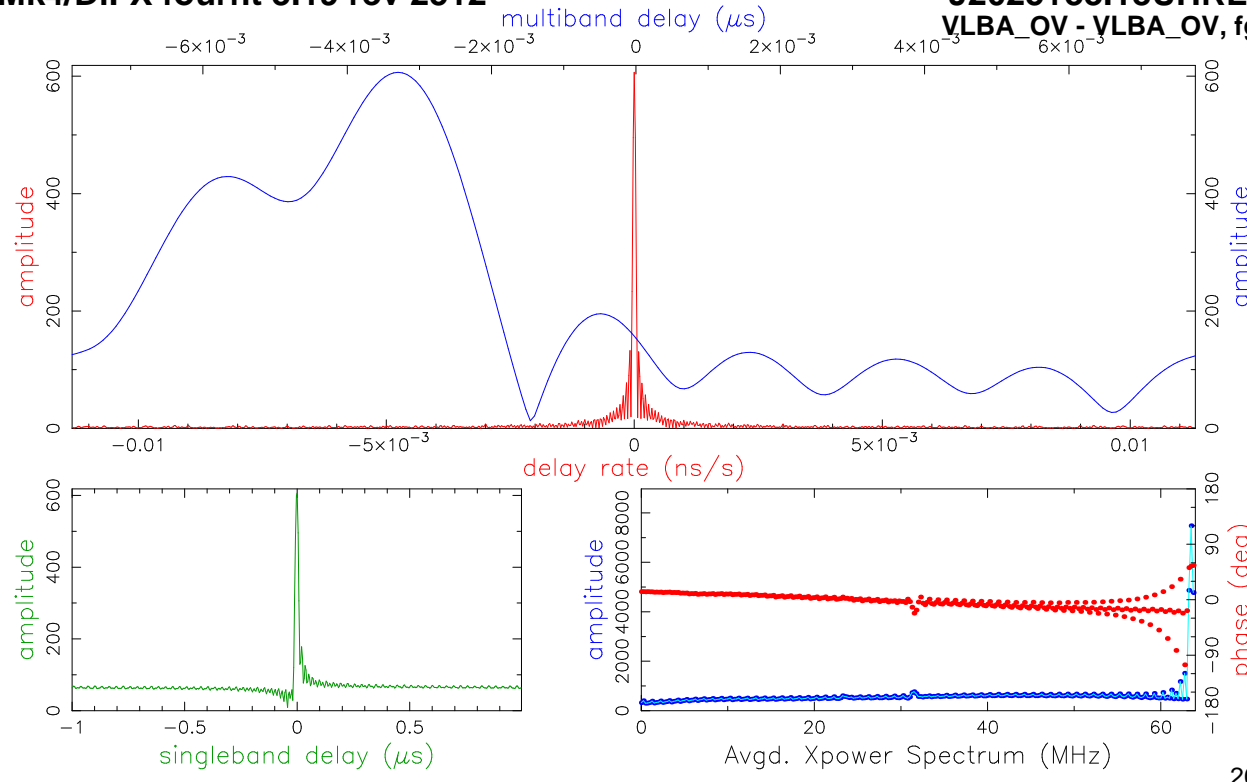
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	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		
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		
Phase delay (usec)	-1.01210581011E-19	-1.01210581011E-19	-1.01210581011E-19	-1.01210581011E-19	-1.01210581011E-19	-1.01210581011E-19	-1.01210581011E-19	-1.01210581011E-19		
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		
Total phase (deg)			-0.0							
			Apriori delay (usec)						Resid mbdelay (usec)	0.00000E+00 +/- 3.0E-09
			Apriori clock (usec)						Resid sbdelay (usec)	0.00000E+00 +/- 2.4E-08
			Apriori clockrate (us/s)						Resid phdelay (usec)	-1.01211E-19 +/- 1.0E-11
			Apriori rate (us/s)						Resid rate (us/s)	0.00000E+00 +/- 9.8E-14
			Apriori accel (us/s/s)						Resid phase (deg)	-0.0 +/- 0.0

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

o: az 68.8 el 30.5 pa -63.2
o: az 68.8 el 30.5 pa -63.2
u,v (fr/asec) 0.000 0.000

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/oo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/oo.W.176.18UHRL

simultaneous interpolator

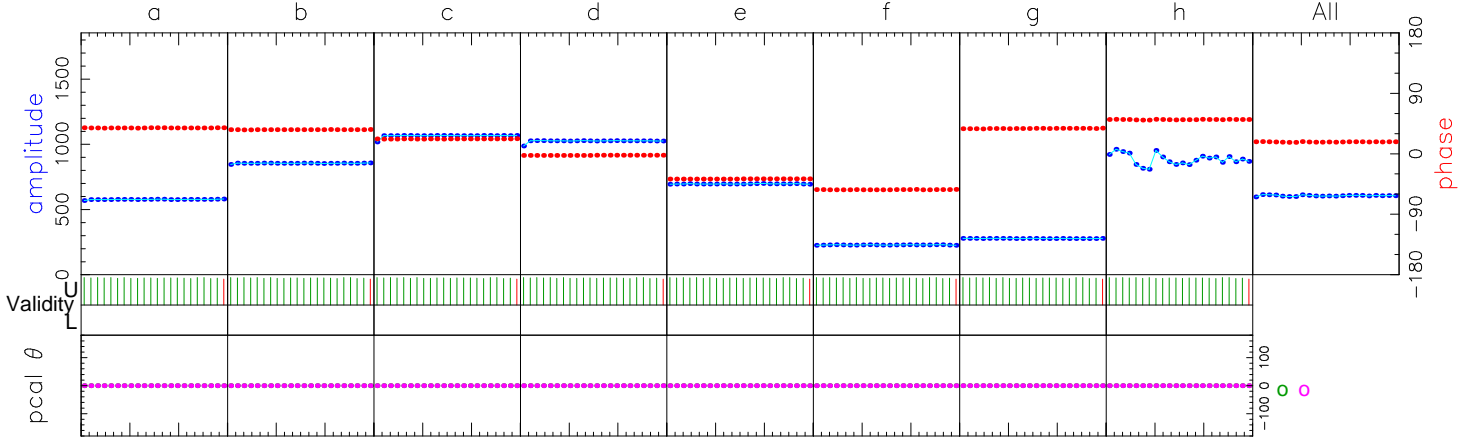


Fringe quality 5

SNR 22507.3
Int time 177.093
Amp 618.478
Phase 17.6
PFD 0.0e+00
Delays (us)
SBD -0.001695
MBD -0.003295
Fringe rate (Hz)
-0.000008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143709
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.29503125000E-03									
Sband delay (usec)	-1.69475000000E-03									
Phase delay (usec)	5.68650309931E-07									
Delay rate (us/s)	-9.21124905460E-11									
Total phase (deg)			17.6							
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)										

ph/seg (deg) 0.3 0.0
amp/seg (%) 2.0 0.0
ph/frq (deg) 42.4 0.0
amp/frq (%) 50.1 0.0

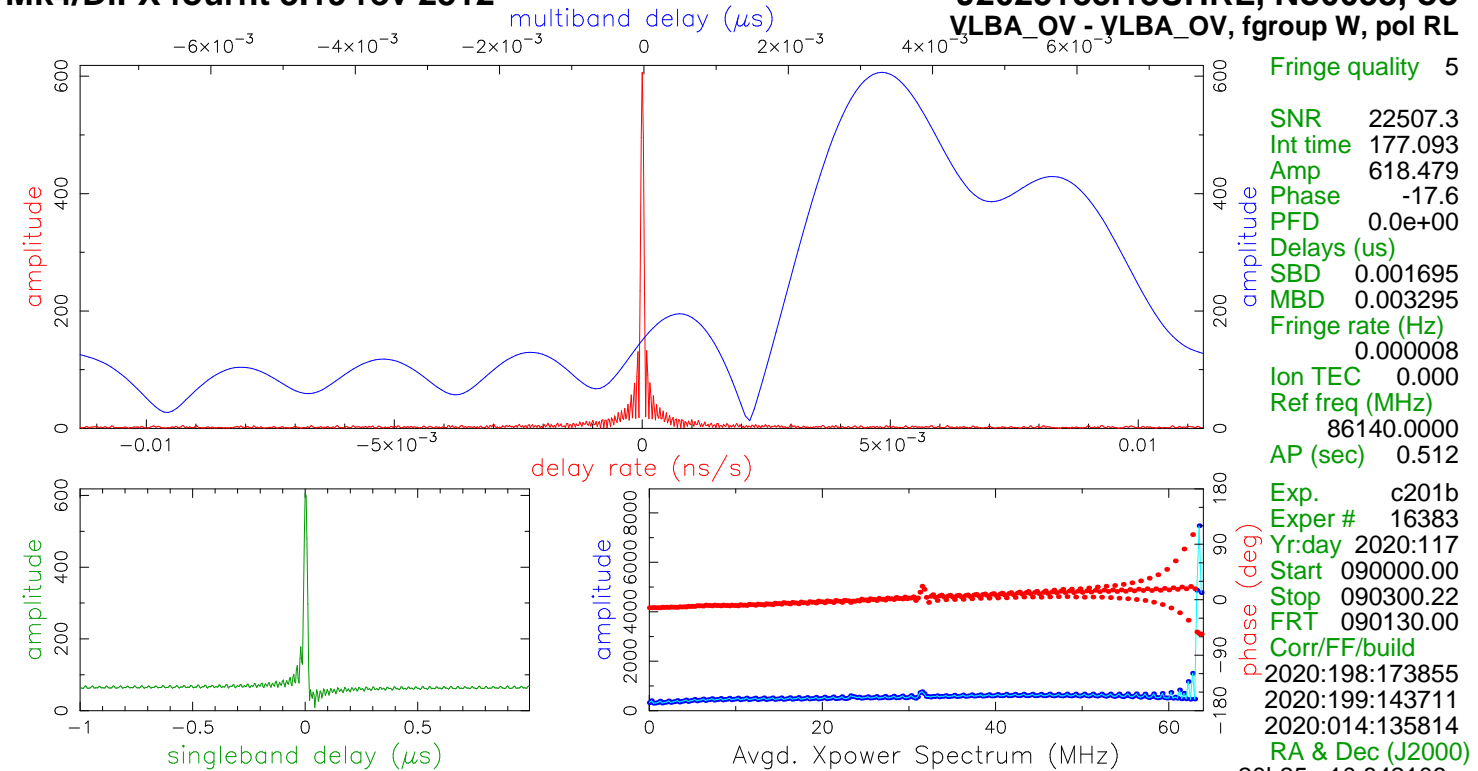
RMS Theor. Amplitude 618.478 +/- 0.027
Search (1024X32) 603.125
Interp. 0.000
Inc. seg. avg. 606.664
Inc. frq. avg. 701.501

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

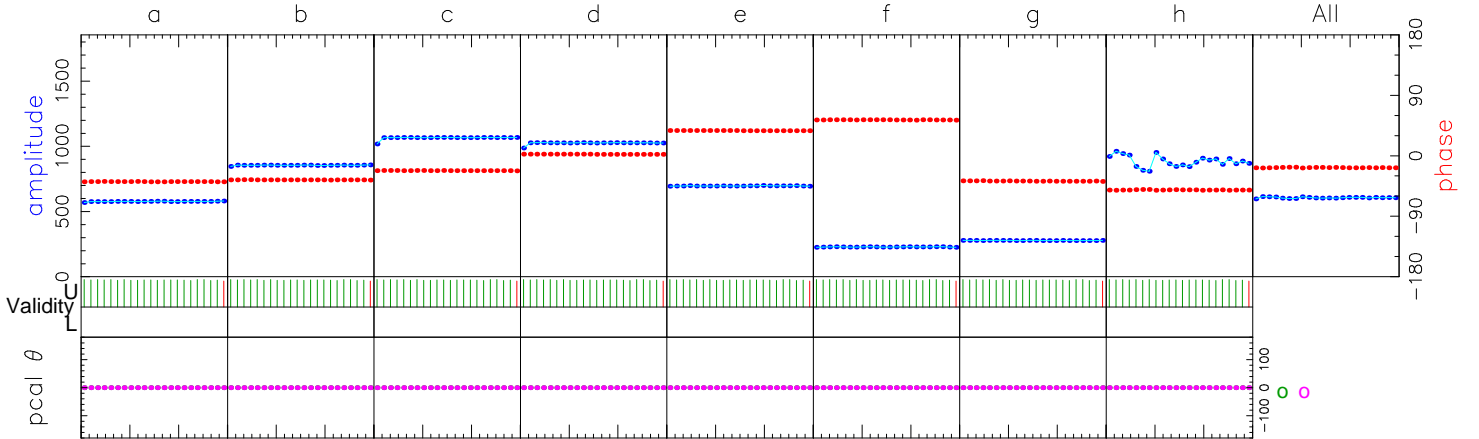
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

o: az 68.8 el 30.5 pa -63.2
o: az 68.8 el 30.5 pa -63.2
u,v (fr/asec) 0.000 0.000

simultaneous interpolator



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.5	-35.9	-22.1	2.3	37.4	53.4	-37.6	-50.9	Phase	-17.6
	577.5	854.8	1065.2	1025.3	696.7	228.7	278.1	885.7	Ampl.	701.5
	257.6	258.4	258.1	258.3	258.2	258.0	257.9	257.1	Sbd box	257.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.29503125000E-03		Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	3.29503E-03	+/-	4.8E-08		
Sband delay (usec)	1.69475000000E-03		Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.69475E-03	+/-	3.8E-07		
Phase delay (usec)	-5.68650309840E-07		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.68650E-07	+/-	1.6E-10		
Delay rate (us/s)	9.21124905460E-11		Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	9.21125E-11	+/-	1.6E-12		
Total phase (deg)		-17.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-17.6	+/-	0.0		

ph/seg (deg) 0.3 0.0 Search (1024X32) 603.126 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

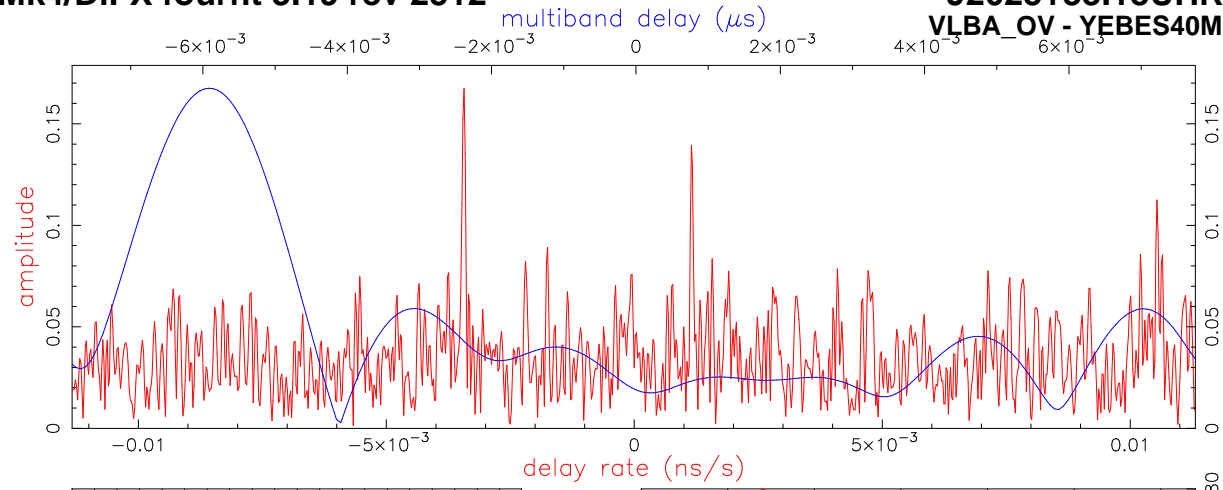
amp/seg (%) 2.0 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 42.4 0.0 Inc. seg. avg. 606.666 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 50.1 0.0 Inc. frq. avg. 701.502 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

o: az 68.8 el 30.5 pa -63.2 o: az 68.8 el 30.5 pa -63.2 u, v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00

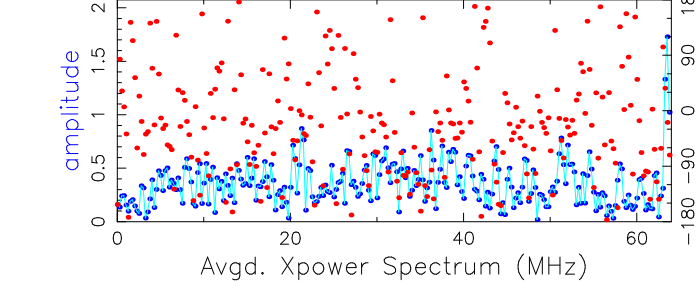
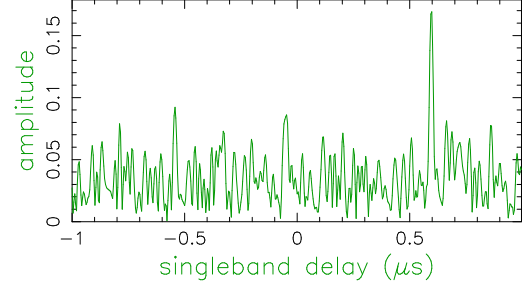
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/oo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/oo.W.197.18UHRL simultaneous interpolator



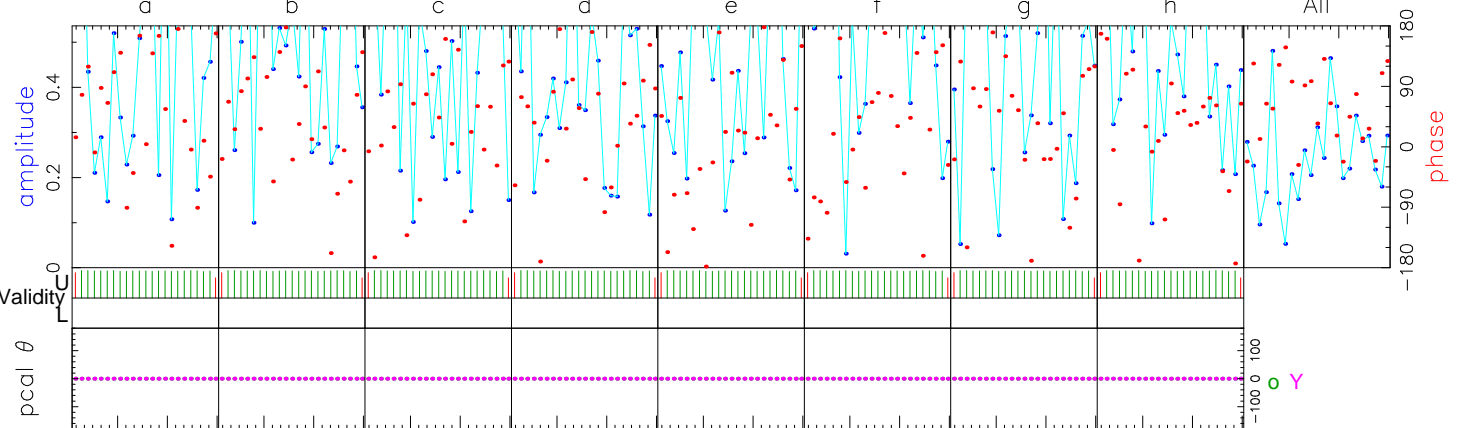
Fringe quality 0

SNR 6.2
 Int time 171.415
 Amp 0.179
 Phase 56.5
 PFD 9.2e-02
 Delays (us)
 SBD 0.595939
 MBD -0.005963
 Fringe rate (Hz)
 -0.296806
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

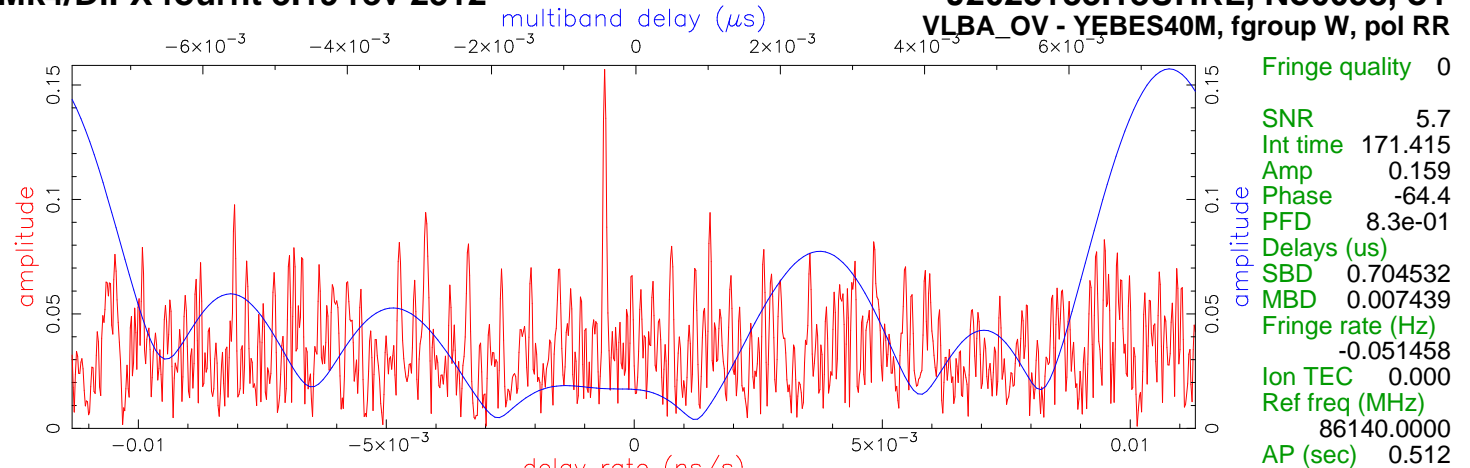
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143705
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"



Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



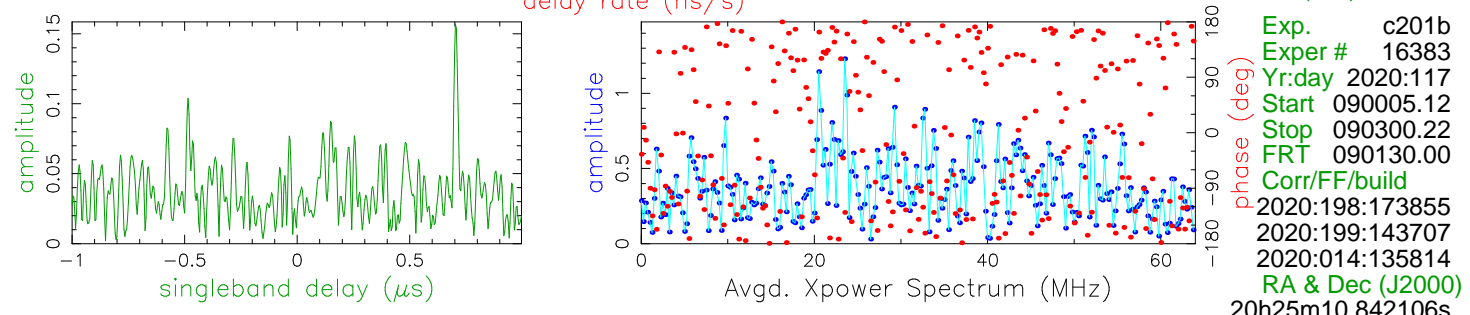
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.98707828406E+03									
Sband delay (usec)	-6.98708575738E+03									
Phase delay (usec)	-6.98768169430E+03									
Delay rate (us/s)	1.63024931549E+00									
Total phase (deg)			-53.1							
Apriori delay (usec)					-6.98768169613E+03					
Apriori clock (usec)					8.1173306E+08					
Apriori clockrate (us/s)					-1.8999993E-08					
Apriori rate (us/s)					1.63025276111E+00					
Apriori accel (us/s/s)					3.43948009326E-05					
Resid mbdelay (usec)									-5.96293E-03	+/- 1.8E-04
Resid sbdelay (usec)									5.95939E-01	+/- 1.4E-03
Resid phdelay (usec)									1.82317E-06	+/- 6.0E-07
Resid rate (us/s)									-3.44562E-06	+/- 5.9E-09
Resid phase (deg)									56.5	+/- 18.6
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
Sample rate (MSamp/s):	128		dr window (ns/s)		-0.011		0.011			
Data rate (Mb/s):	2048		nlags: 256		t_cohere infinite		ion window (TEC)		0.00	
o: az	68.8 el 30.5 pa -63.2		Y: az 271.1 el 57.5 pa 66.0		u, v (fr/asec) -11207.614 1539.481		simultaneous interpolator			



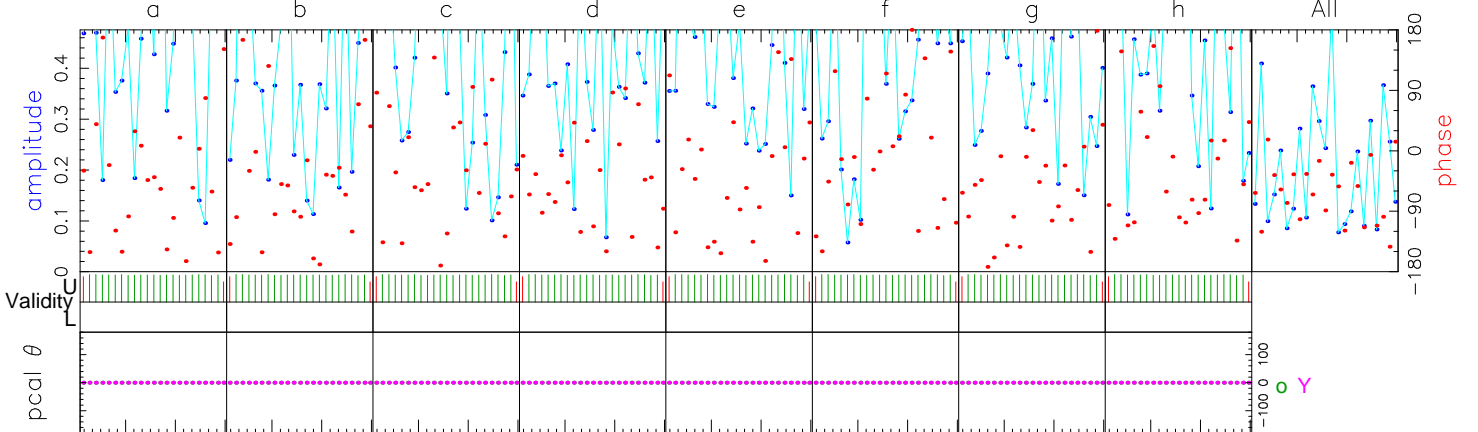
Fringe quality 0

SNR 5.7
 Int time 171.415
 Amp 0.159
 Phase -64.4
 PFD 8.3e-01
 Delays (us)
 SBD 0.704532
 MBD 0.007439
 Fringe rate (Hz) -0.051458
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143707
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

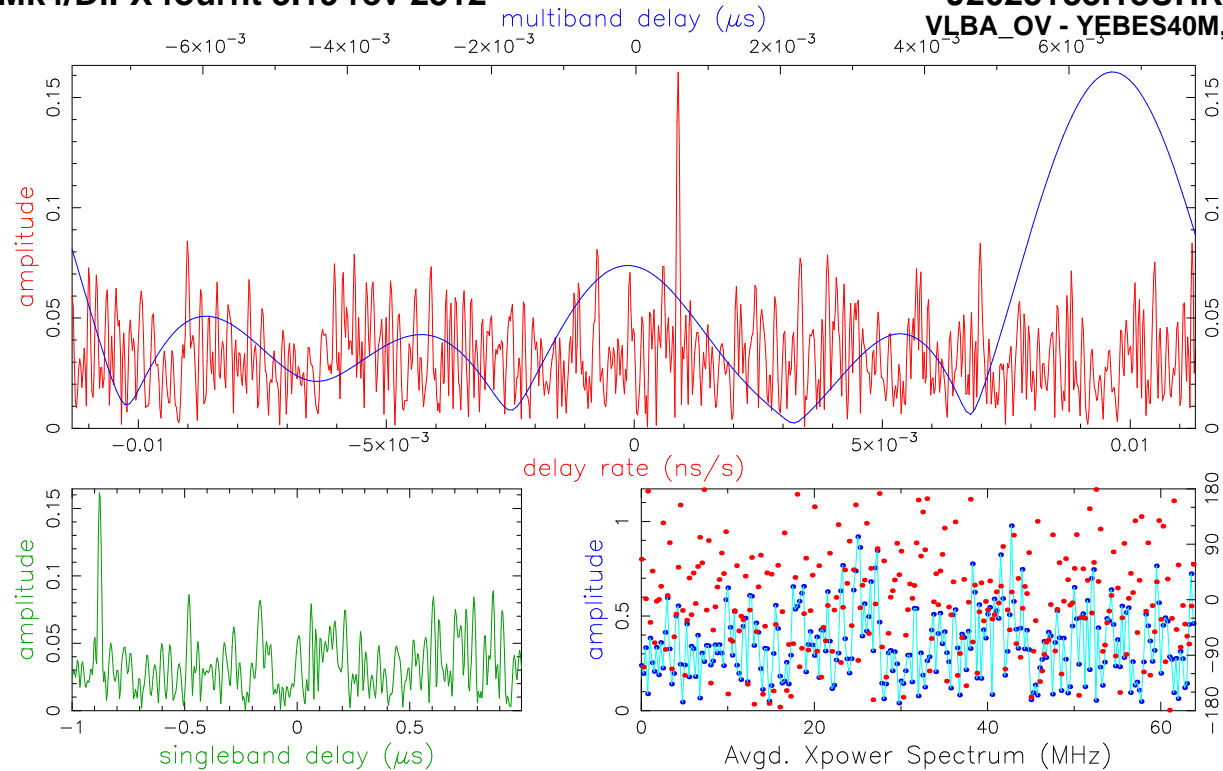


Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



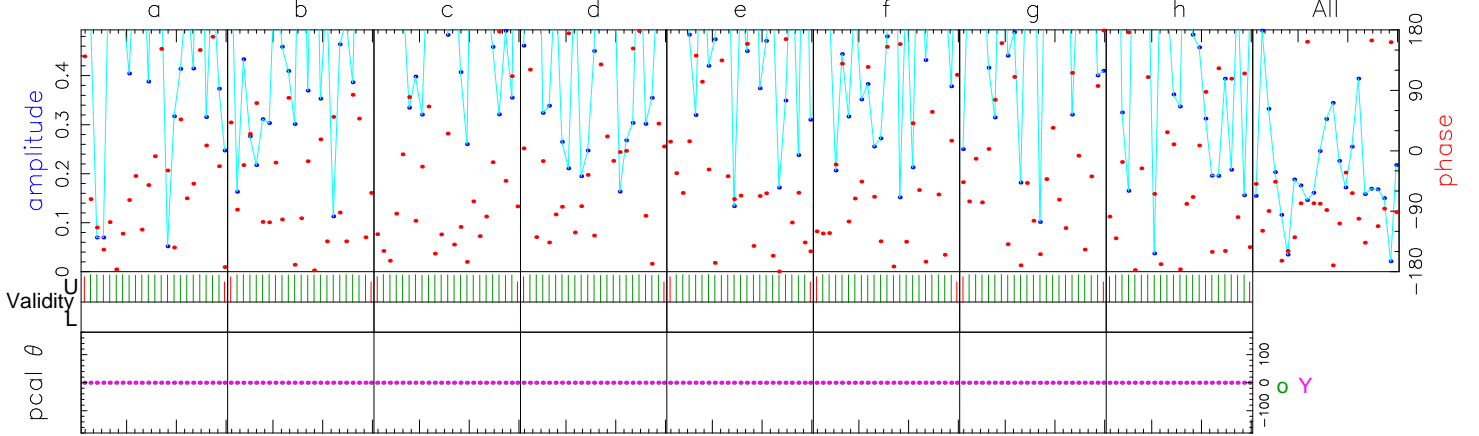
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-73.2	-77.5	-35.8	-53.0	-61.2	5.2	-74.6	-82.4	Phase	-64.4
	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	403.7	254.3	454.3	78.7	112.7	261.3	173.0	138.2	Sbd box	437.4
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.98697113259E+03		Apriori delay (usec)		-6.98768169613E+03		Resid mbdelay (usec)		7.43853E-03	+/- 1.9E-04
Sband delay (usec)	-6.98697716388E+03		Apriori clock (usec)		8.1173306E+00		Resid sbdelay (usec)		7.04532E-01	+/- 1.5E-03
Phase delay (usec)	-6.98768169821E+03		Apriori clockrate (us/s)		-1.8999993E-08		Resid phdelay (usec)		-2.07804E-06	+/- 6.5E-07
Delay rate (us/s)	1.63025216373E+00		Apriori rate (us/s)		1.63025276111E+00		Resid rate (us/s)		-5.97381E-07	+/- 6.4E-09
Total phase (deg)			Apriori accel (us/s/s)		3.43948009326E-05		Resid phase (deg)		-64.4	+/- 20.2

ph/seg (deg) 43.6 48.5 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.9 84.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.9 28.6 Inc. seg. avg. 0.154 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.4 49.9 Inc. frq. avg. 0.148 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 68.8 el 30.5 pa -63.2 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -11207.614 1539.481 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/oY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/oY.W.169.18UHRL



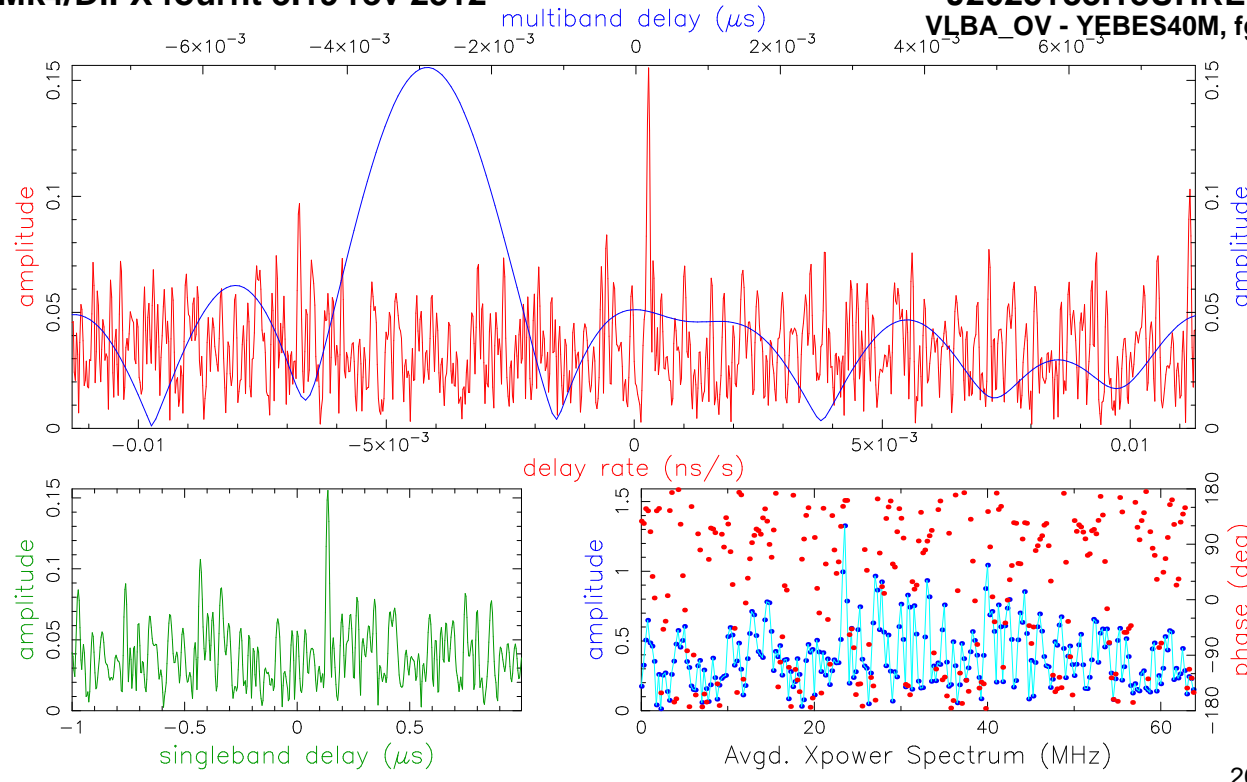
Fringe quality 0
 SNR 5.9
 Int time 171.415
 Amp 0.165
 Phase -103.5
 PFD 4.1e-01
 Delays (us)
 SBD -0.877345
 MBD 0.006644
 Fringe rate (Hz)
 0.077029
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143708
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



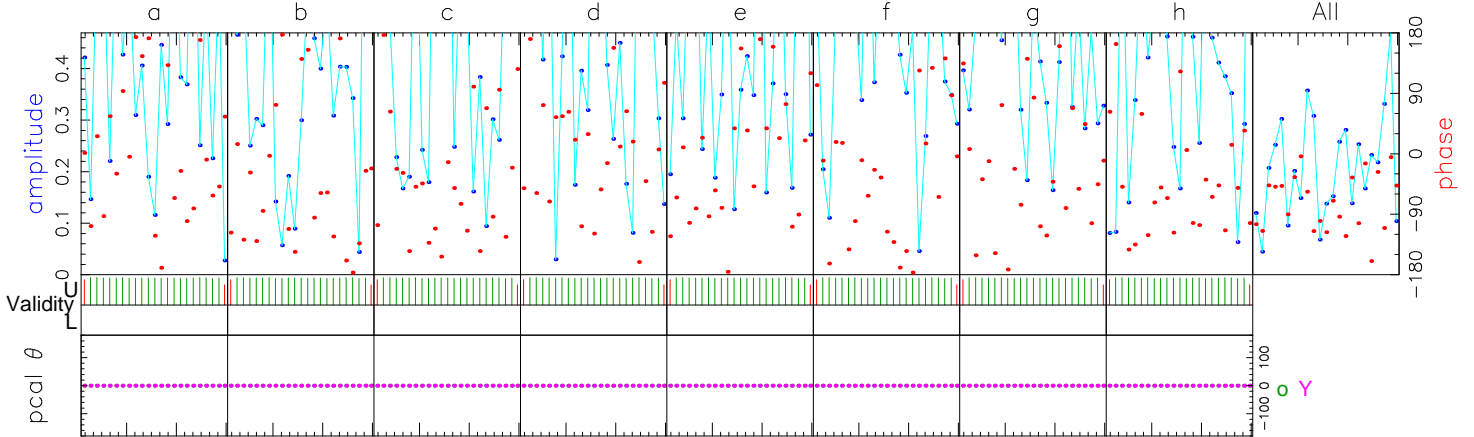
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.5	-75.4	-108.4	-103.0	-104.8	-128.4	-69.3	-123.5	Phase	-103.5
	0.2	0.1	0.3	0.1	0.2	0.2	0.1	0.1	Ampl.	0.2
	498.0	114.4	33.2	52.9	416.7	72.9	189.2	294.4	Sbd box	32.4
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-6.98856567718E+03		Apriori delay (usec)		-6.98768169613E+03		Resid mbdelay (usec)		6.64395E-03	+/- 1.8E-04
Sband delay (usec)	-6.98855904138E+03		Apriori clock (usec)		8.1173306E+08		Resid sbdelay (usec)		-8.77345E-01	+/- 1.5E-03
Phase delay (usec)	-6.98768169947E+03		Apriori clockrate (us/s)		-1.8999993E-08		Resid phdelay (usec)		-3.33790E-06	+/- 6.3E-07
Delay rate (us/s)	1.63025365534E+00		Apriori rate (us/s)		1.63025276111E+00		Resid rate (us/s)		8.94227E-07	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		3.43948009326E-05		Resid phase (deg)		-103.5	+/- 19.5

ph/seg (deg) 48.9 46.8 Search (1024X32) 0.157 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.0 81.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.4 27.6 Inc. seg. avg. 0.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.5 48.1 Inc. frq. avg. 0.154 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 68.8 el 30.5 pa -63.2 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -11207.614 1539.481 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/oY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/oY.W.179.18UHRL



Fringe quality 0
 SNR 5.6
 Int time 171.415
 Amp 0.156
 Phase -69.1
 PFD 9.3e-01
 Delays (us)
 SBD 0.135684
 MBD -0.002944
 Fringe rate (Hz)
 0.023973
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143710
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

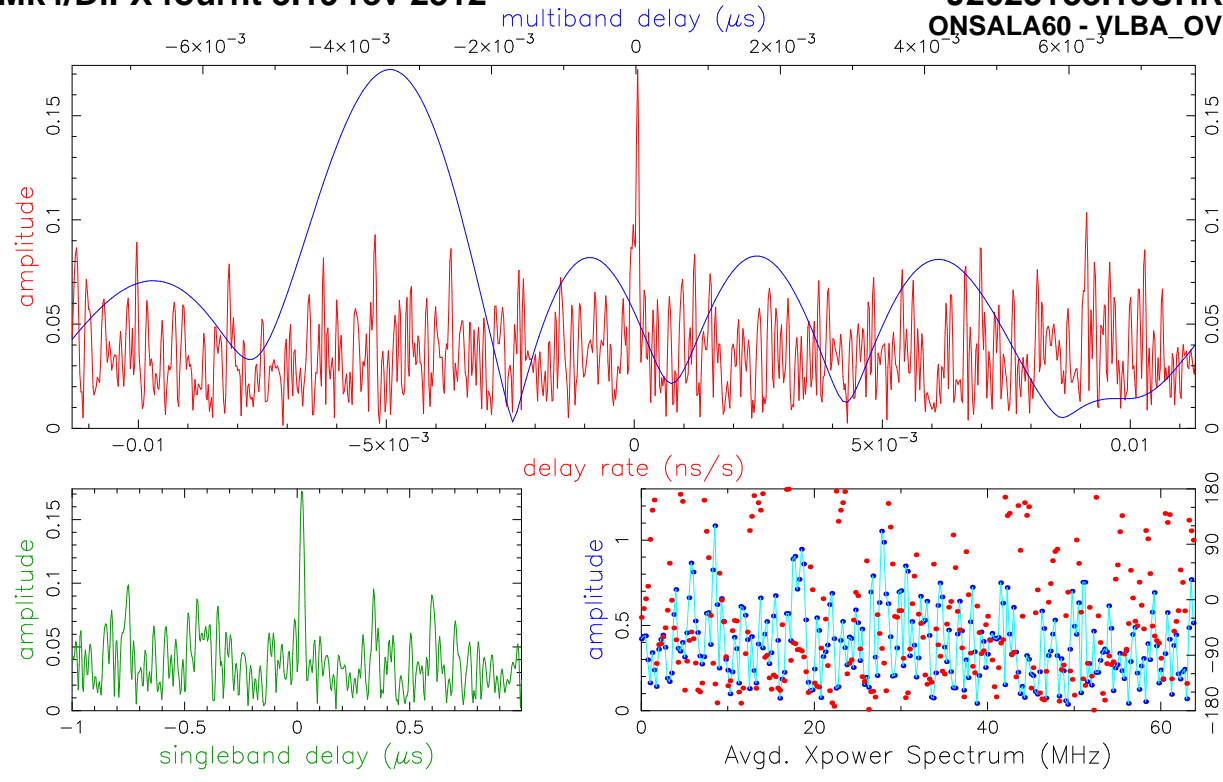


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-51.0	-82.8	-92.1	-53.5	-67.1	-80.8	-71.7	-58.5	Phase	-69.1
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	Ampl.	0.1
	431.6	449.9	471.5	67.7	224.3	111.6	96.5	293.1	Sbd box	291.7
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.98754401527E+03	Apriori delay (usec)	-6.98768169613E+03	Resid mbdelay (usec)	-2.94414E-03	+/-	1.9E-04
Sband delay (usec)	-6.98754601213E+03	Apriori clock (usec)	8.1173306E+08	Resid sbdelay (usec)	1.35684E-01	+/-	1.5E-03
Phase delay (usec)	-6.98768169836E+03	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	-2.22853E-06	+/-	6.6E-07
Delay rate (us/s)	1.63025303942E+00	Apriori rate (us/s)	1.63025276111E+00	Resid rate (us/s)	2.78306E-07	+/-	6.5E-09
Total phase (deg)	-178.7	Apriori accel (us/s/s)	3.43948009326E-05	Resid phase (deg)	-69.1	+/-	20.5

ph/seg (deg)	42.5	Theor.	49.1	Amplitude	0.156 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.7		85.6	Search (1024X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	16.1		28.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	34.5		50.5	Inc. seg. avg.	0.155	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.142	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

o: az 68.8 el 30.5 pa -63.2 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -11207.614 1539.481 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/oY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/oY.W.190.18UHRL

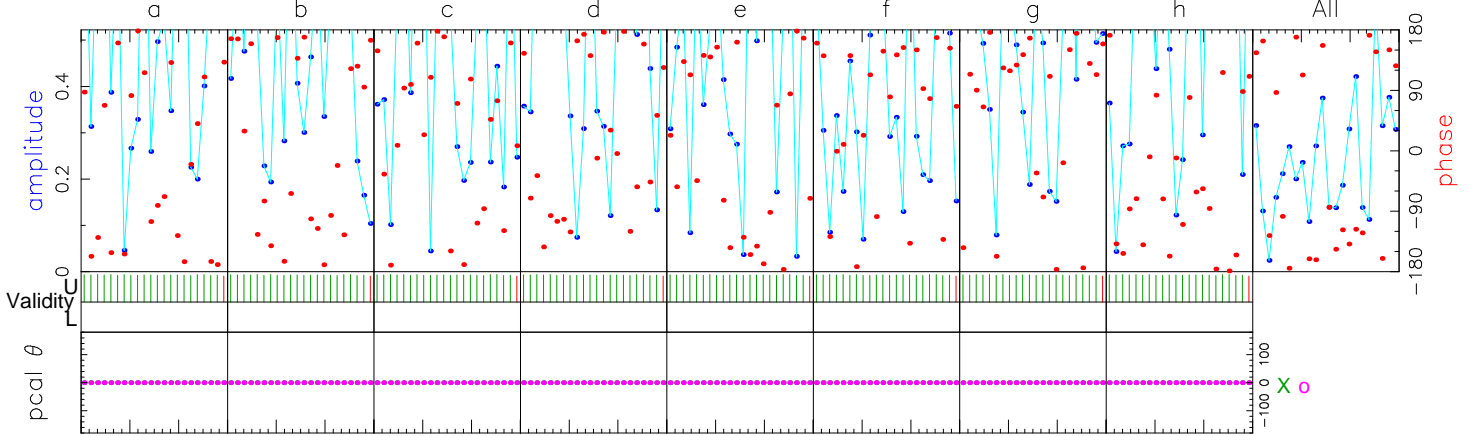


Fringe quality 0

SNR 6.3
Int time 177.040
Amp 0.174
Phase -179.9
PFD 3.2e-02
Delays (us)
SBD 0.021378
MBD -0.003375
Fringe rate (Hz)
0.005318
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143704
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	166.2	-149.5	141.9	-131.3	-167.1	165.2	142.8	-130.1		
Sband delay (usec)	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2		
Phase delay (usec)	329.4	195.8	463.7	435.8	397.5	108.4	262.7	344.8		
Delay rate (us/s)		-1.56602848560E+00								
Total phase (deg)			105.6							
Apriori delay (usec)					4.46409204543E+03					
Apriori clock (usec)					2.0675940E+01					
Apriori clockrate (us/s)					3.2700001E-07					
Apriori rate (us/s)					-1.56602854733E+00					
Apriori accel (us/s/s)					-8.72493573249E-06					
Resid mbdelay (usec)									-3.37494E-03	+/- 1.7E-04
Resid sbdelay (usec)									2.13777E-02	+/- 1.4E-03
Resid phdelay (usec)									-5.80086E-06	+/- 5.8E-07
Resid rate (us/s)									6.17310E-08	+/- 5.6E-09
Resid phase (deg)									-179.9	+/- 18.1

ph/seg (deg) 49.6 42.4
amp/seg (%) 83.0 74.0
ph/frq (deg) 39.1 25.6
amp/frq (%) 35.0 44.6

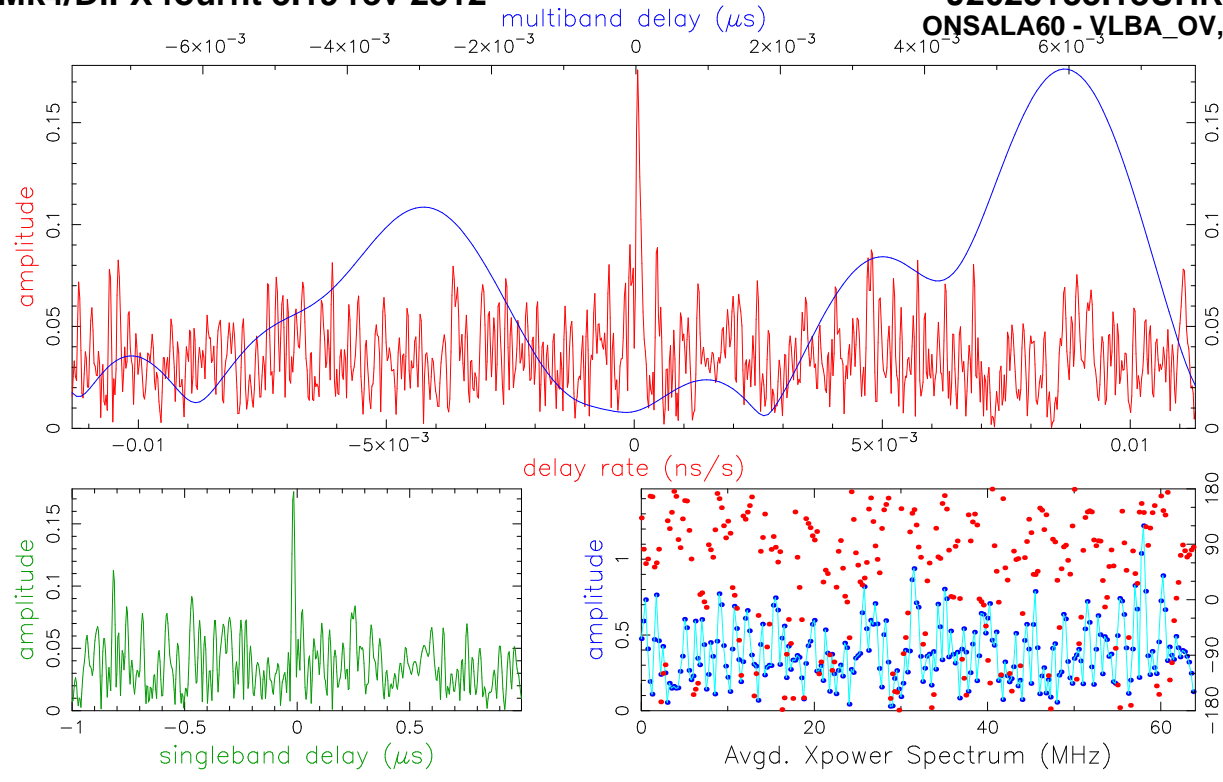
RMS Theor. Amplitude 0.174 +/- 0.027
Search (1024X32) 0.171
Interp. 0.000
Inc. seg. avg. 0.191
Inc. frq. avg. 0.185

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

X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.158.18UHRL

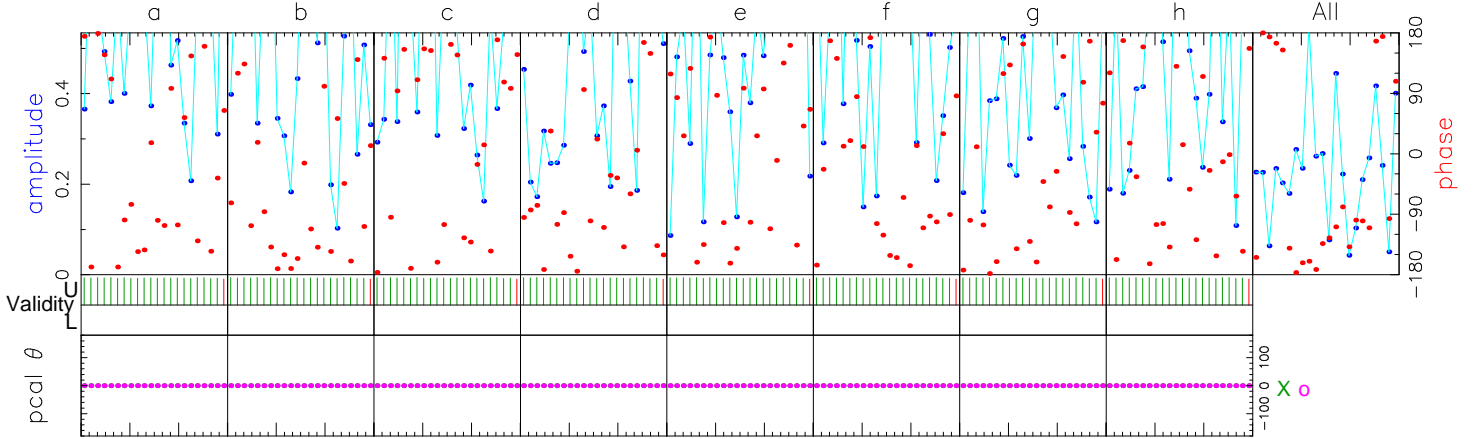


Fringe quality 0

SNR 6.5
Int time 177.040
Amp 0.178
Phase -158.6
PFD 1.3e-02
Delays (us)
SBD -0.016931
MBD 0.005859
Fringe rate (Hz) 0.005171
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

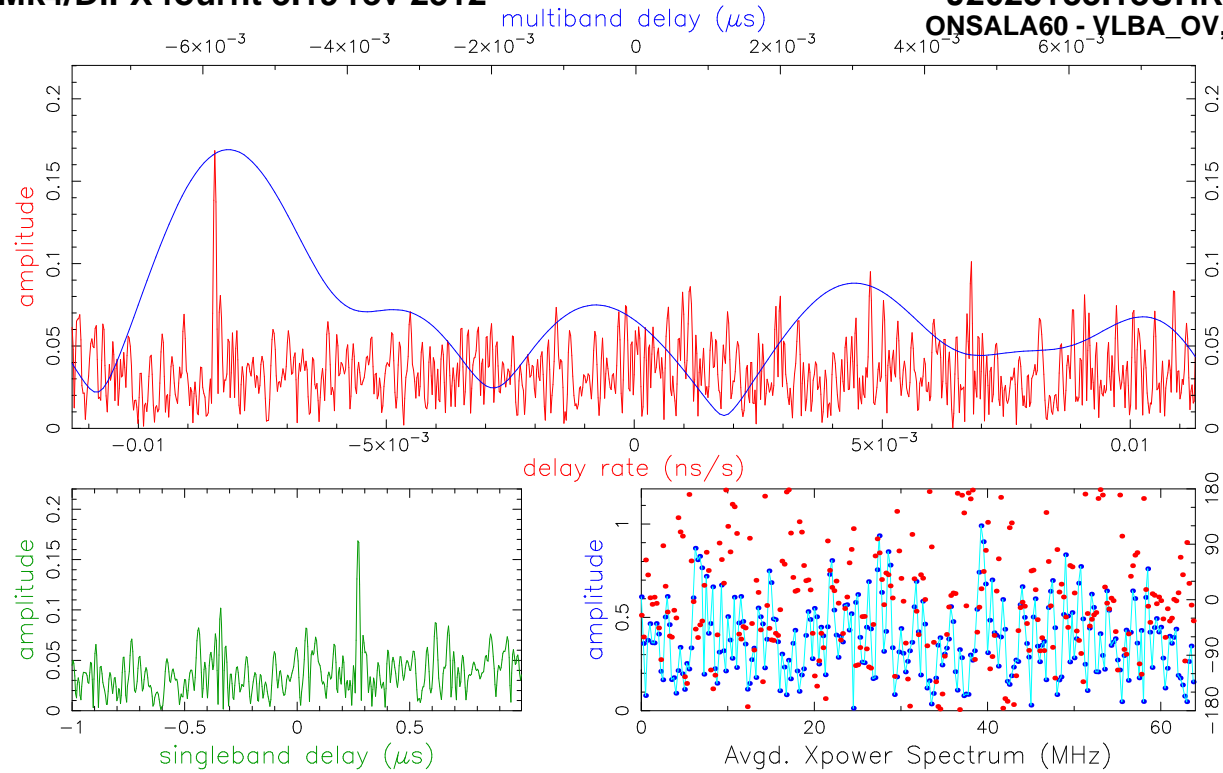
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143706
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



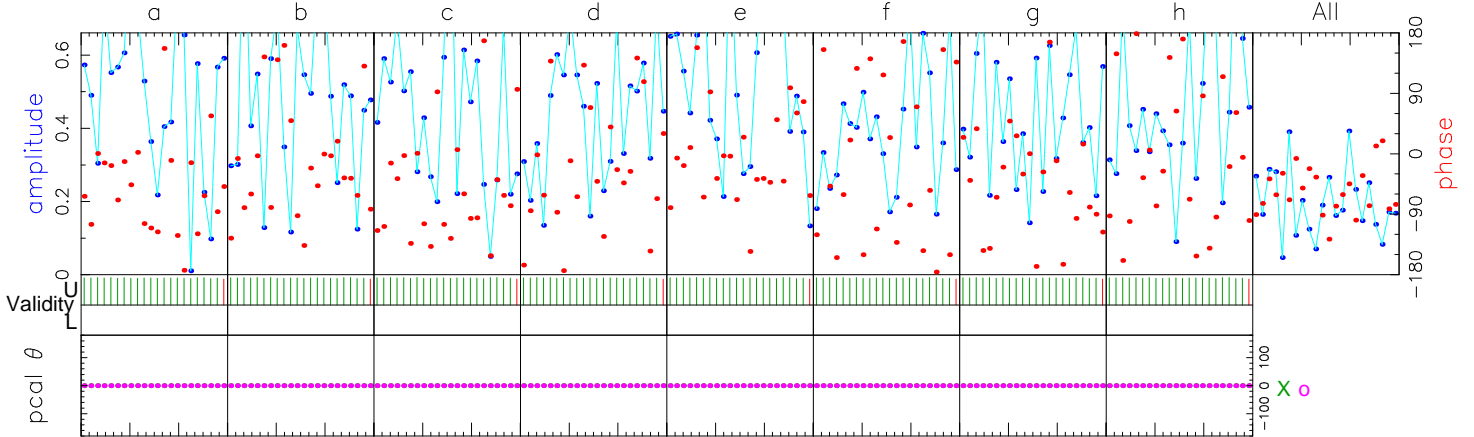
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-152.7	-132.3	166.0	-132.7	135.4	-139.8	-140.1	-137.6	Phase	-158.6
	0.3	0.2	0.4	0.2	0.1	0.1	0.1	0.1	Ampl.	0.2
	138.7	422.5	252.5	63.4	246.9	324.5	162.9	283.1	Sbd box	252.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.46408227986E+03		Apriori delay (usec)		4.46409204543E+03		Resid mbdelay (usec)		5.85943E-03	+/- 1.7E-04
Sband delay (usec)	4.46407511493E+03		Apriori clock (usec)		2.0675940E+01		Resid sbdelay (usec)		-1.69305E-02	+/- 1.3E-03
Phase delay (usec)	4.46409204031E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-5.11525E-06	+/- 5.7E-07
Delay rate (us/s)	-1.56602848731E+00		Apriori rate (us/s)		-1.56602854733E+00		Resid rate (us/s)		6.00262E-08	+/- 5.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-8.72493573249E-06		Resid phase (deg)		-158.6	+/- 17.7

ph/seg (deg) 42.8 41.5 Search (1024X32) 0.174 PCAL mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.5 72.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.8 25.0 Inc. seg. avg. 0.187 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.3 43.6 Inc. frq. avg. 0.185 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.168.18UHRL



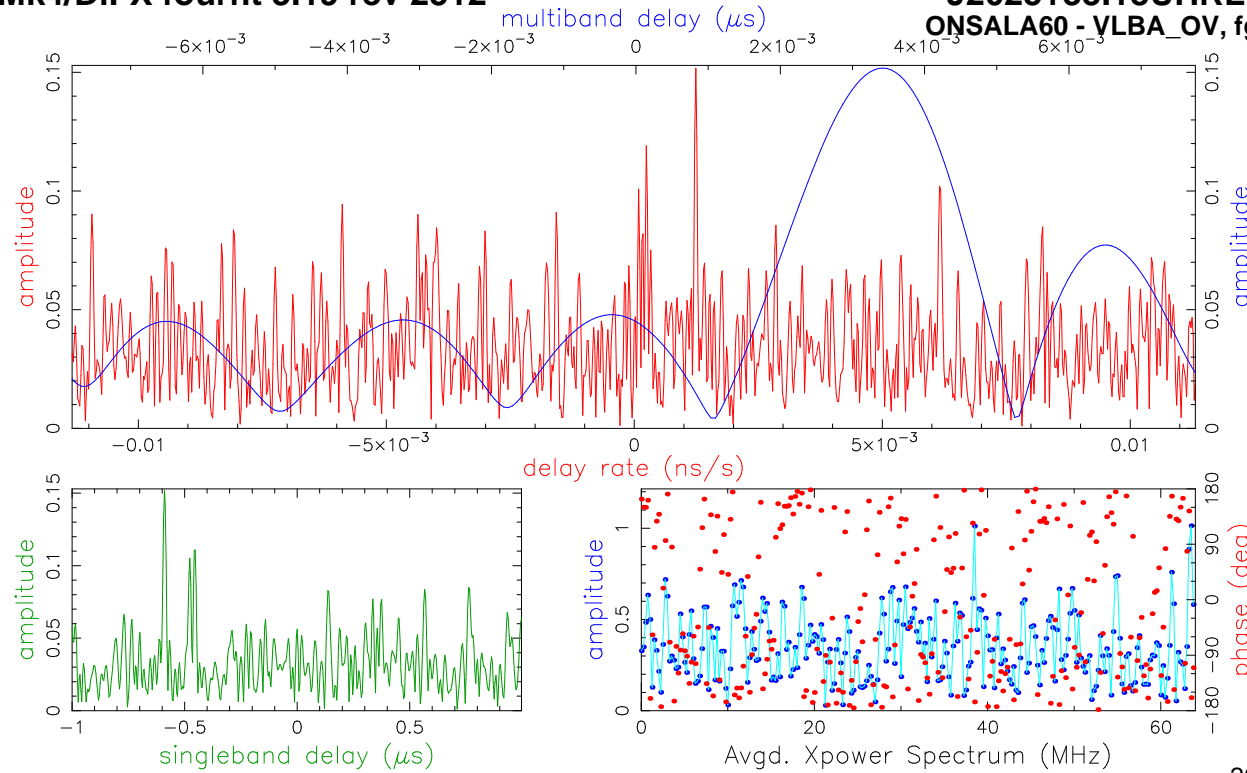
Fringe quality 0
SNR 6.3
Int time 177.040
Amp 0.220
Phase -63.3
PFD 3.9e-02
Delays (us)
SBD 0.271351
MBD -0.005553
Fringe rate (Hz)
-0.728911
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143708
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.6	-53.5	-83.1	-46.2	-14.1	-149.6	-66.7	-92.0	Phase	-63.3
	0.4	0.3	0.4	0.1	0.4	0.2	0.2	0.1	Ampl.	0.2
	327.1	473.9	234.8	303.4	326.6	478.7	231.1	472.5	Sbd box	326.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.46436774246E+03		Apriori delay (usec)		4.46409204543E+03		Resid mbdelay (usec)		-5.55297E-03	+/- 1.7E-04
Sband delay (usec)	4.46436339693E+03		Apriori clock (usec)		2.0675940E+01		Resid sbdelay (usec)		2.71351E-01	+/- 1.4E-03
Phase delay (usec)	4.46409204338E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-2.04178E-06	+/- 5.9E-07
Delay rate (us/s)	-1.56603700926E+00		Apriori rate (us/s)		-1.56602854733E+00		Resid rate (us/s)		-8.46193E-06	+/- 5.6E-09
Total phase (deg)	222.2		Apriori accel (us/s/s)		-8.72493573249E-06		Resid phase (deg)		-63.3	+/- 18.2

ph/seg (deg) 36.5 42.6 Search (1024X32) 0.167 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 54.1 74.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 43.7 25.7 Inc. seg. avg. 0.196 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 50.0 44.9 Inc. frq. avg. 0.236 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.177.18UHRL

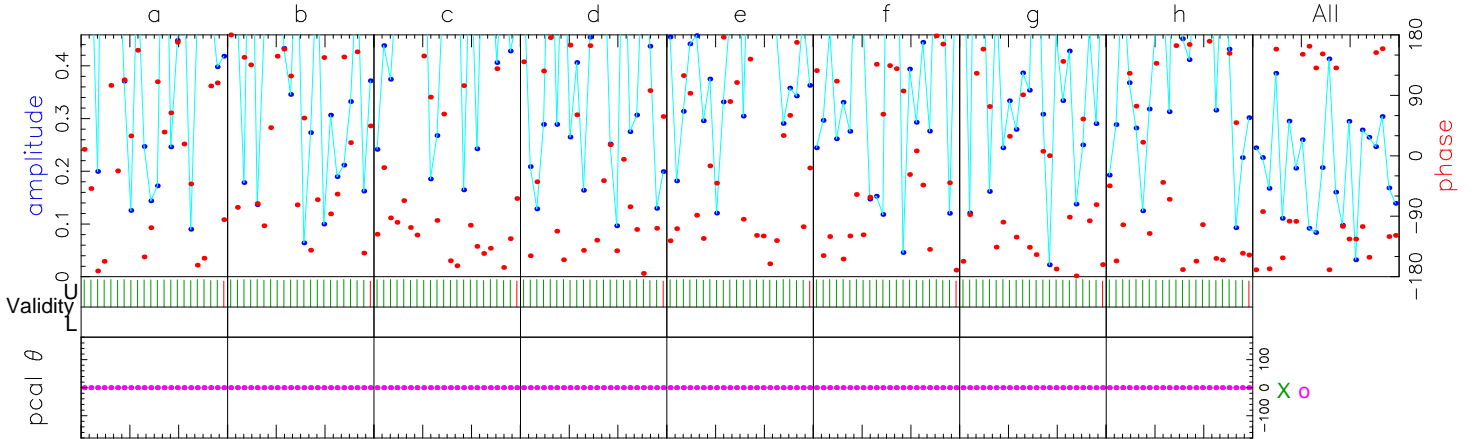


Fringe quality 0

SNR 5.5
Int time 177.040
Amp 0.153
Phase -159.6
PFD 9.7e-01
Delays (us)
SBD -0.589233
MBD 0.003443
Fringe rate (Hz) 0.106733
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

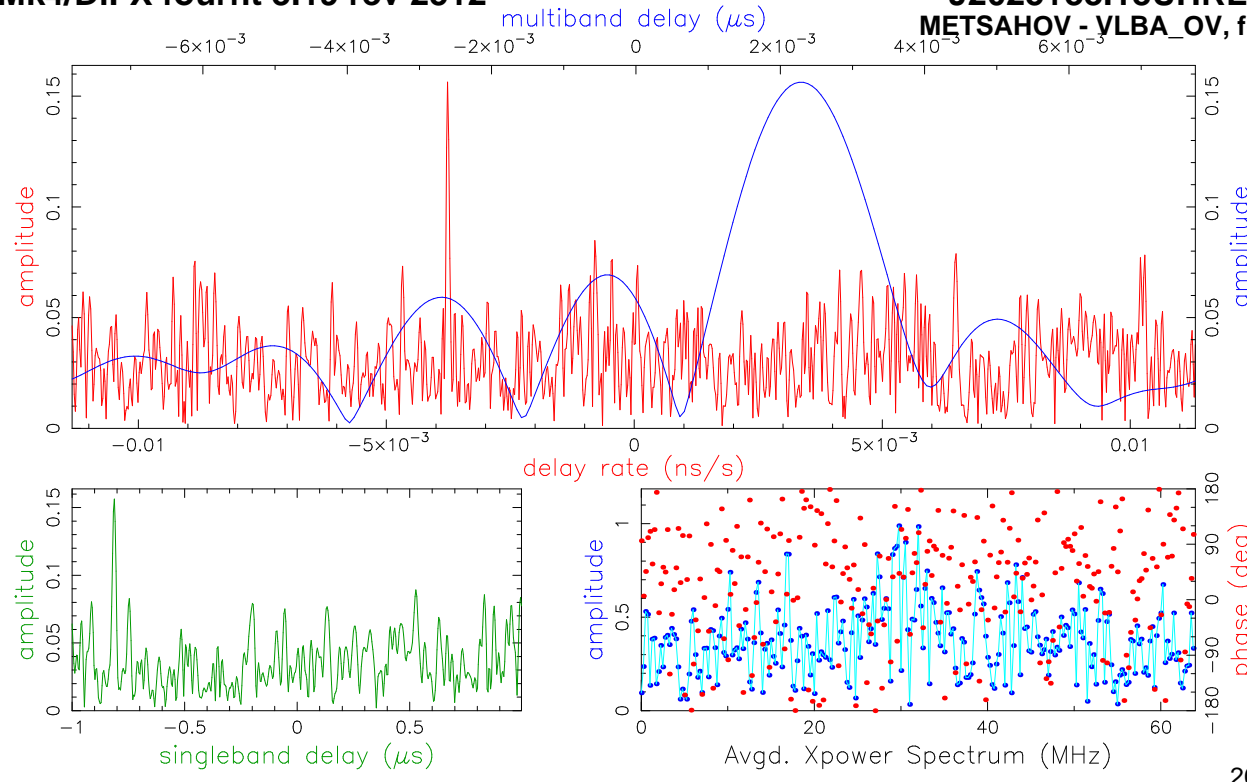
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143712
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	128.2	-178.7	-130.1	-163.0	-157.9	-170.8	-163.4	-162.6	Phase	-159.6
	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	212.9	429.5	105.5	35.4	366.3	108.0	139.8	335.1	Sbd box	106.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	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)	4.46350173805E+03		Apriori delay (usec)		4.46409204543E+03		Resid mbdelay (usec)		3.44262E-03	+/- 2.0E-04
Sband delay (usec)	4.46350281293E+03		Apriori clock (usec)		2.0675940E+01		Resid sbdelay (usec)		-5.89233E-01	+/- 1.6E-03
Phase delay (usec)	4.46409204028E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-5.14826E-06	+/- 6.7E-07
Delay rate (us/s)	-1.56602730827E+00		Apriori rate (us/s)		-1.56602854733E+00		Resid rate (us/s)		1.23906E-06	+/- 6.4E-09
Total phase (deg)	125.8		Apriori accel (us/s/s)		-8.72493573249E-06		Resid phase (deg)		-159.6	+/- 20.7

ph/seg (deg) 46.4 48.5 Search (1024X32) 0.153 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.5 84.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.2 29.3 Inc. seg. avg. 0.157 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.8 51.1 Inc. frq. avg. 0.145 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.204.18UHRL

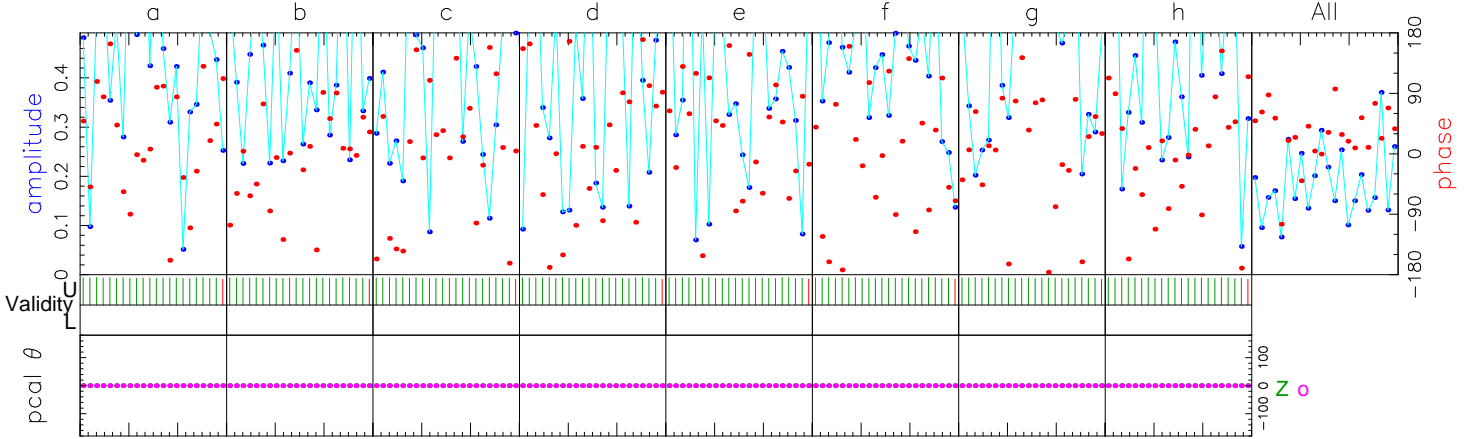


Fringe quality 0

SNR 5.7
 Int time 176.731
 Amp 0.164
 Phase 30.7
 PFD 7.9e-01
 Delays (us)
 SBD -0.813043
 MBD 0.002264
 Fringe rate (Hz)
 -0.324157
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143709
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

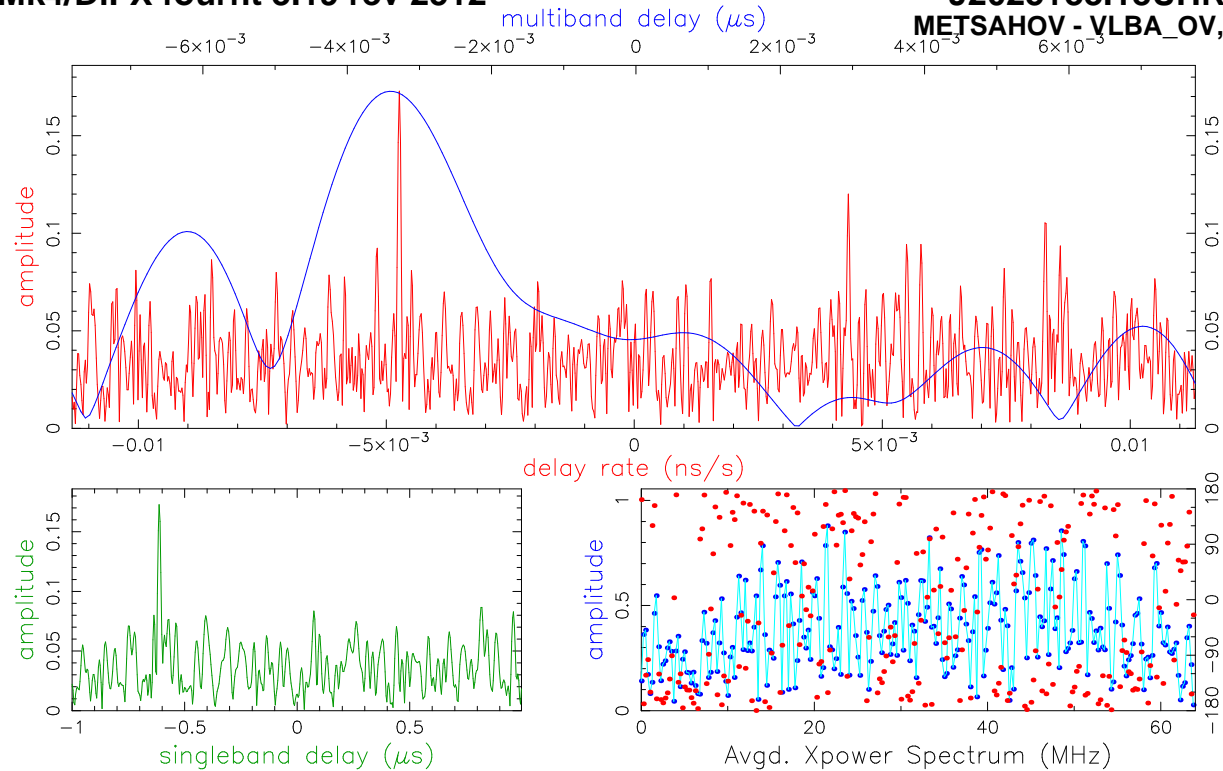


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 2.61719258819E+03 Apriori delay (usec) 2.61800282391E+03 Resid mbdelay (usec) 2.26428E-03 +/- 1.9E-04
 Sband delay (usec) 2.61718978041E+03 Apriori clock (usec) -2.0207991E+01 Resid sbdelay (usec) -8.13043E-01 +/- 1.5E-03
 Phase delay (usec) 2.61800282490E+03 Apriori clockrate (us/s) -1.8500001E-07 Resid phdelay (usec) 9.88601E-07 +/- 6.5E-07
 Delay rate (us/s) -1.58691909828E+00 Apriori rate (us/s) -1.58691533514E+00 Resid rate (us/s) -3.76314E-06 +/- 6.2E-09
 Total phase (deg) 121.2 Apriori accel (us/s/s) 2.47976003956E-06 Resid phase (deg) 30.7 +/- 20.1

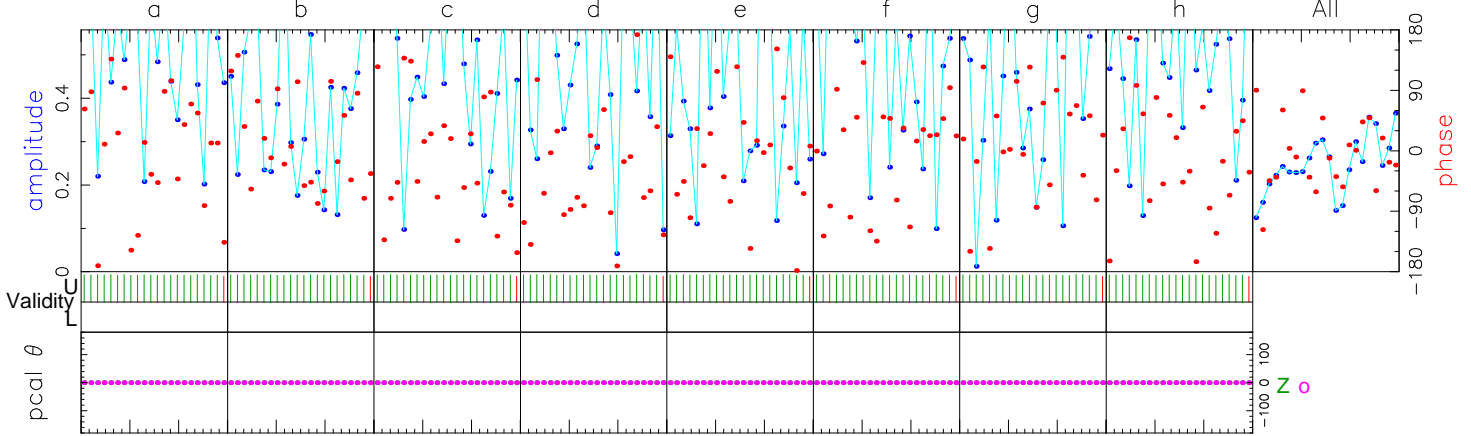
RMS Theor. Amplitude 0.164 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 42.7 47.2 Search (1024X32) 0.153 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 49.2 82.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 16.1 28.5 Inc. seg. avg. 0.146 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.7 49.7 Inc. frq. avg. 0.151 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 270.2 el 39.7 pa 36.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10938.341 2007.996 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Zo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Zo.W.183.18UHRL



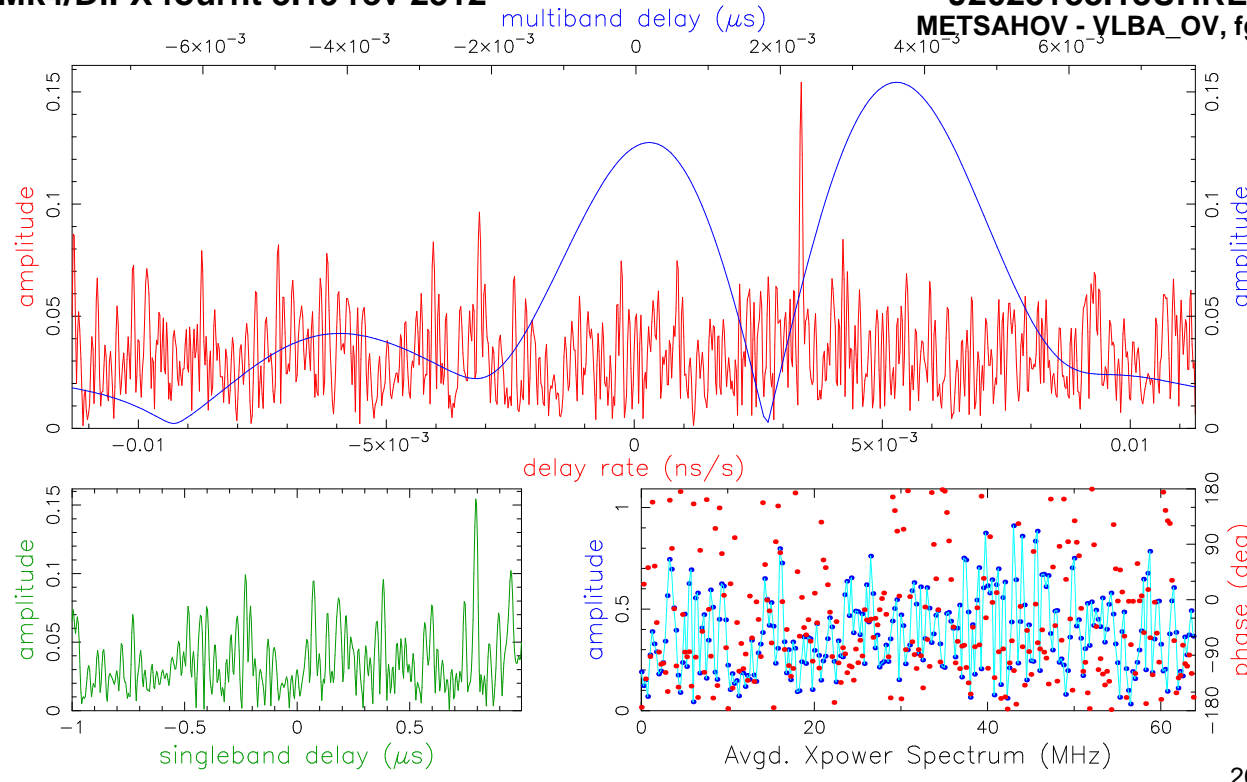
Fringe quality 0
 SNR 6.3
 Int time 176.730
 Amp 0.186
 Phase -4.3
 PFD 4.3e-02
 Delays (us)
 SBD -0.612897
 MBD -0.003388
 Fringe rate (Hz)
 -0.407905
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143711
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	43.9	-0.4	-55.9	-44.0	-11.1	17.7	29.6	-13.0		Phase
	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2		Ampl.
	178.9	256.2	54.8	294.4	452.4	234.0	14.9	319.7		Sbd box
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		100.1
Z	1000	1000	1000	1000	1000	1000	1000	1000		APs used
o	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	2.61739006100E+03		Apriori delay (usec)		2.61800282391E+03		Resid mbdelay (usec)		-3.38791E-03	+/- 1.7E-04
Sband delay (usec)	2.61738992741E+03		Apriori clock (usec)		-2.0207991E+01		Resid sbdelay (usec)		-6.12897E-01	+/- 1.4E-03
Phase delay (usec)	2.61800282377E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-1.39146E-07	+/- 5.9E-07
Delay rate (us/s)	-1.58692007052E+00		Apriori rate (us/s)		-1.58691533514E+00		Resid rate (us/s)		-4.73538E-06	+/- 5.6E-09
Total phase (deg)	86.2		Apriori accel (us/s/s)		2.47976003956E-06		Resid phase (deg)		-4.3	+/- 18.2

ph/seg (deg) 51.3 42.7 Search (1024X32) 0.170 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.0 74.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.3 25.8 Inc. seg. avg. 0.208 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.4 45.0 Inc. frq. avg. 0.198 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 270.2 el 39.7 pa 36.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10938.341 2007.996 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Zo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Zo.W.195.18UHRL

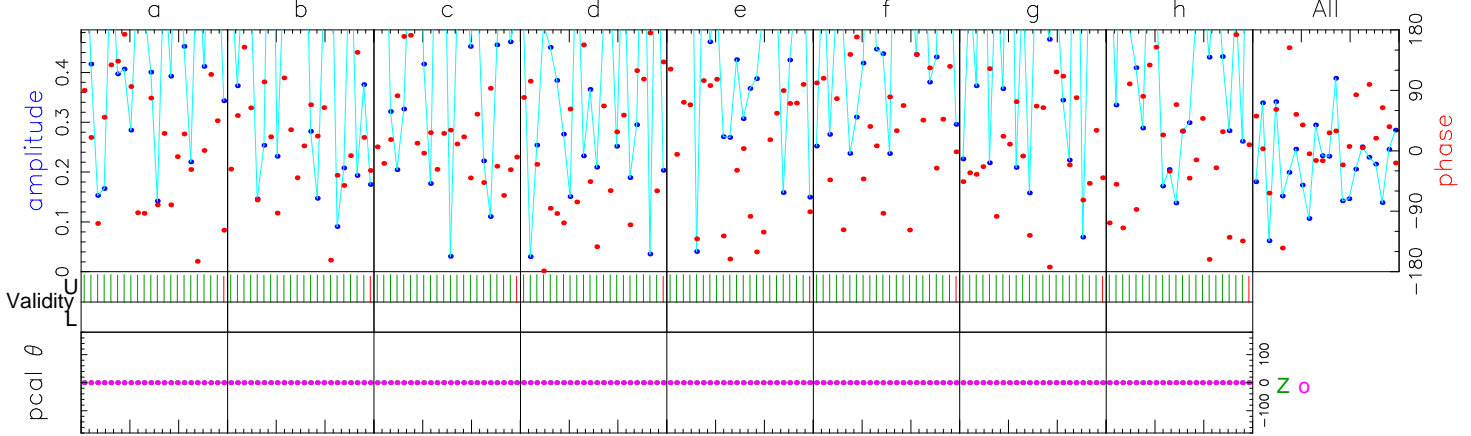


Fringe quality 0

SNR 5.7
 Int time 176.730
 Amp 0.162
 Phase 27.0
 PFD 8.2e-01
 Delays (us)
 SBD 0.794388
 MBD 0.003608
 Fringe rate (Hz)
 0.290095
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143713
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



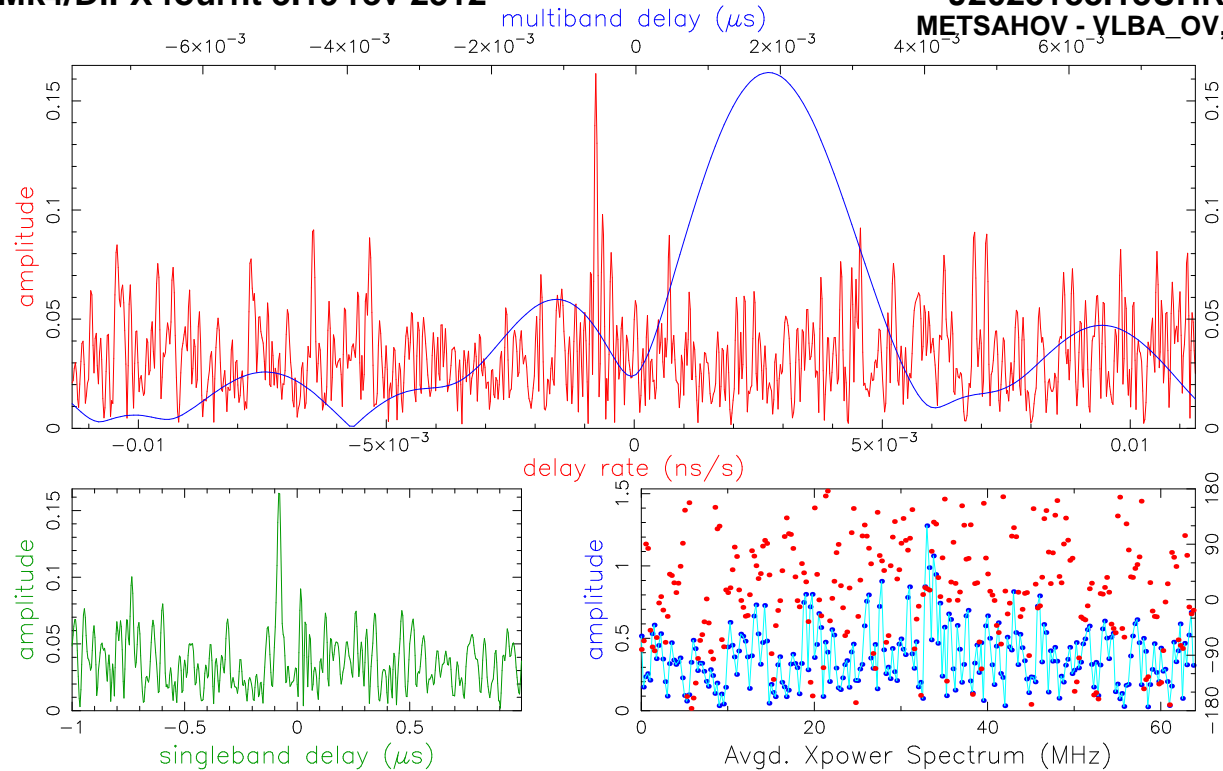
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		460.4
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	2.61880330739E+03	Apriori delay (usec)	2.61800282391E+03	Resid mbdelay (usec)	3.60848E-03	+/-	1.9E-04
Sband delay (usec)	2.61879721141E+03	Apriori clock (usec)	-2.0207991E+01	Resid sbdelay (usec)	7.94388E-01	+/-	1.5E-03
Phase delay (usec)	2.61800282478E+03	Apriori clockrate (us/s)	-1.8500001E-07	Resid phdelay (usec)	8.70725E-07	+/-	6.5E-07
Delay rate (us/s)	-1.58691196743E+00	Apriori rate (us/s)	-1.58691533514E+00	Resid rate (us/s)	3.36771E-06	+/-	6.3E-09
Total phase (deg)	117.5	Apriori accel (us/s/s)	2.47976003956E-06	Resid phase (deg)	27.0	+/-	20.2

ph/seg (deg)	59.1	Theor.	47.4	Amplitude	0.162 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	64.1	Search (1024X32)	0.153	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	44.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	66.4	Inc. seg. avg.	0.169	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.166	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

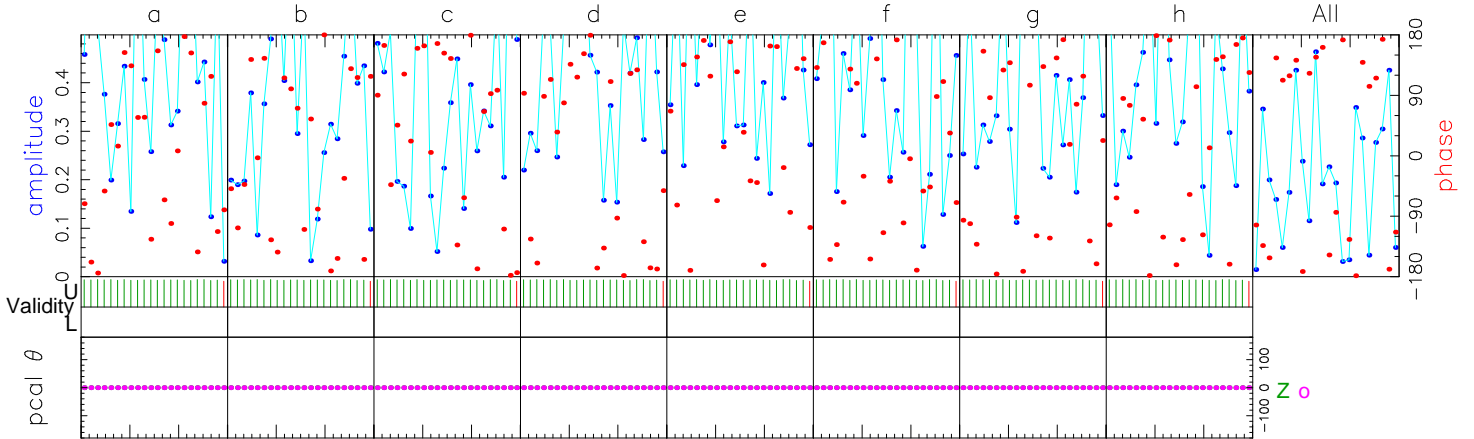
Z: az 270.2 el 39.7 pa 36.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10938.341 2007.996 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Zo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Zo.W.208.18UHRL



Fringe quality 0
 SNR 6.0
 Int time 176.731
 Amp 0.166
 Phase 170.1
 PFD 1.9e-01
 Delays (us)
 SBD -0.080141
 MBD 0.001746
 Fringe rate (Hz)
 -0.066487
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143715
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.3	175.8	155.0	149.2	179.5	171.8	-179.0	-177.0	Phase	170.1
	0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.2	Ampl.	0.2
	454.7	179.1	231.5	347.9	88.8	26.1	62.4	234.9	Sbd box	236.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 2.61792644505E+03 Apriori delay (usec) 2.61800282391E+03 Resid mbdelay (usec) 1.74614E-03 +/- 1.8E-04
 Sband delay (usec) 2.61792268266E+03 Apriori clock (usec) -2.0207991E+01 Resid sbdelay (usec) -8.01412E-02 +/- 1.4E-03
 Phase delay (usec) 2.61800282939E+03 Apriori clockrate (us/s) -1.8500001E-07 Resid phdelay (usec) 5.48451E-06 +/- 6.1E-07
 Delay rate (us/s) -1.58691610699E+00 Apriori rate (us/s) -1.58691533514E+00 Resid rate (us/s) -7.71852E-07 +/- 5.9E-09
 Total phase (deg) 260.6 Apriori accel (us/s/s) 2.47976003956E-06 Resid phase (deg) 170.1 +/- 19.0

RMS Theor. Amplitude 0.166 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 49.9 44.6 Search (1024X32) 0.162 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 85.8 77.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 14.7 26.9 Inc. seg. avg. 0.162 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 29.3 46.9 Inc. frq. avg. 0.151 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 270.2 el 39.7 pa 36.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10938.341 2007.996 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Zo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Zo.W.216.18UHRL