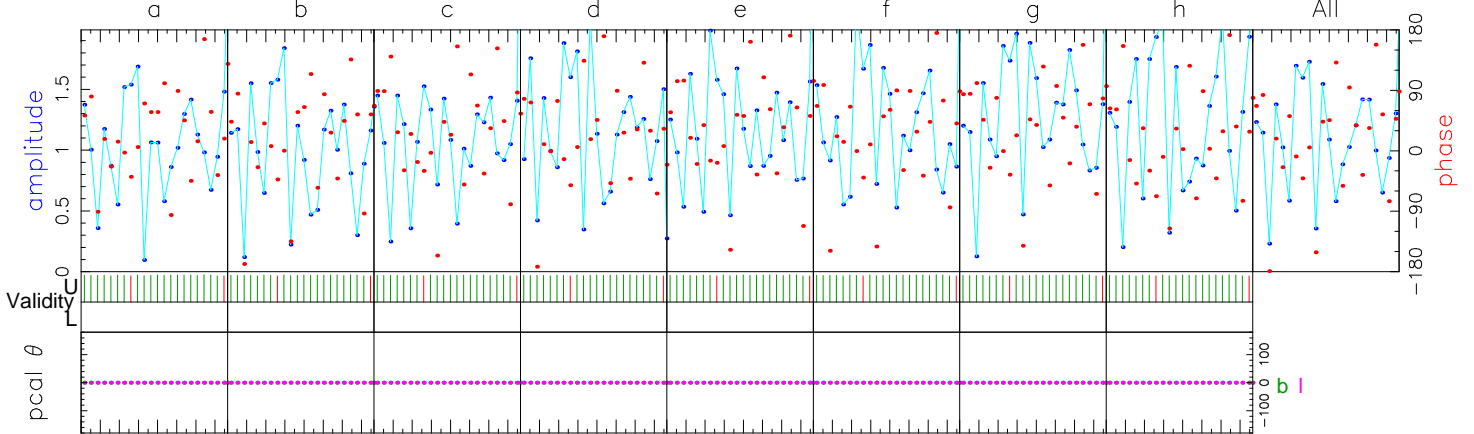


Fringe quality 6

SNR 37.5
Int time 426.572
Amp 0.663
Phase 23.7
PFD 0.0e+00
Delays (us)
SBD 0.001836
MBD 0.001485
Fringe rate (Hz)
-0.007043
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210521
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

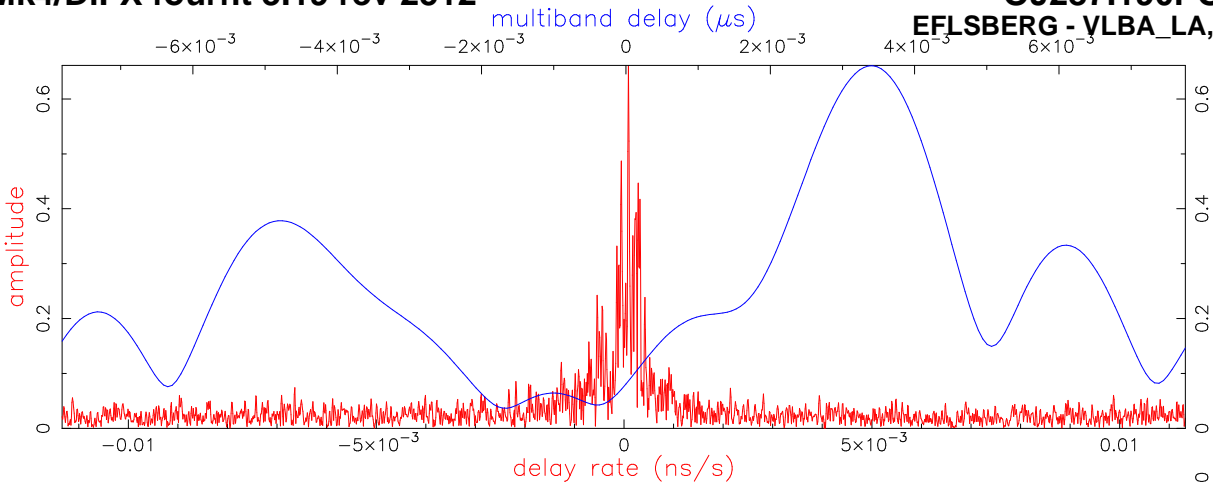
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



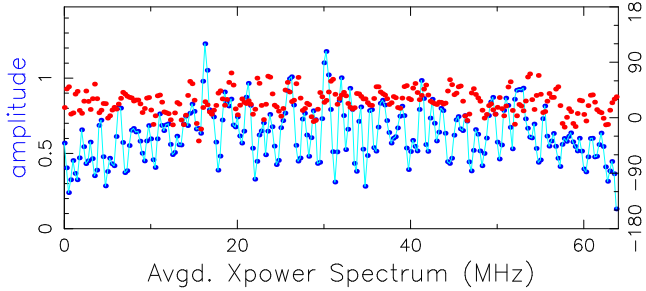
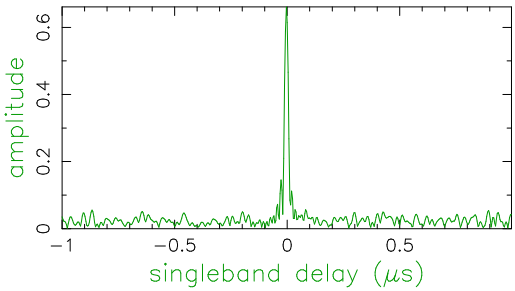
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.76168409564E+03								1.48485E-03	+/- 2.9E-05
Sband delay (usec)	-2.76168374449E+03								1.83600E-03	+/- 2.3E-04
Phase delay (usec)	-2.76168557972E+03								7.65680E-07	+/- 9.9E-08
Delay rate (us/s)	-1.58546264816E-01								-8.17676E-08	+/- 3.9E-10
Total phase (deg)			-301.4						23.7	+/- 3.1
				Apriori delay (usec)	-2.76168558049E+03				Resid mbdelay (usec)	
				Apriori clock (usec)	2.3049383E+00				Resid sbdelay (usec)	
				Apriori clockrate (us/s)	1.0899999E-07				Resid phdelay (usec)	
				Apriori rate (us/s)	-1.58546183048E-01				Resid rate (us/s)	
				Apriori accel (us/s/s)	2.08798631902E-05				Resid phase (deg)	
ph/seg (deg)	75.4	7.3		Search (2048X32)	0.623				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	89.4	12.8		Interp.	0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	12.8	4.3		Inc. seg. avg.	1.083				Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	10.6	7.6		Inc. frq. avg.	0.661				Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
									Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
									nlags: 256	t_cohere infinite
										ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 simultaneous interpolator

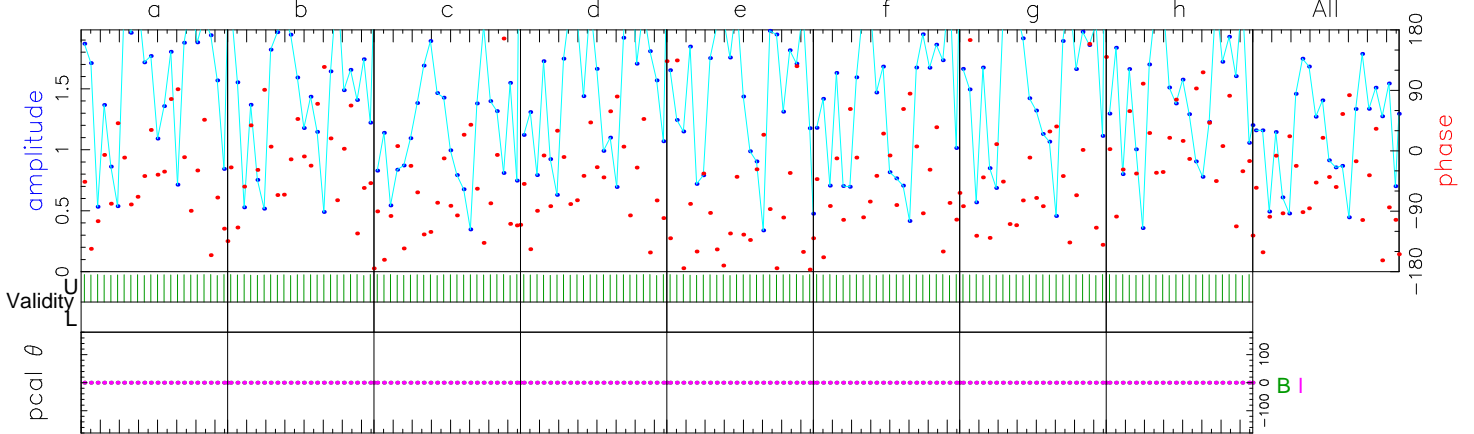
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.30.190POF



Fringe quality 4
SNR 37.7
Int time 433.766
Amp 0.661
Phase -54.1
PFD 0.0e+00
Delays (us)
SBD -0.003480
MBD 0.003413
Fringe rate (Hz) 0.007464
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210522
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

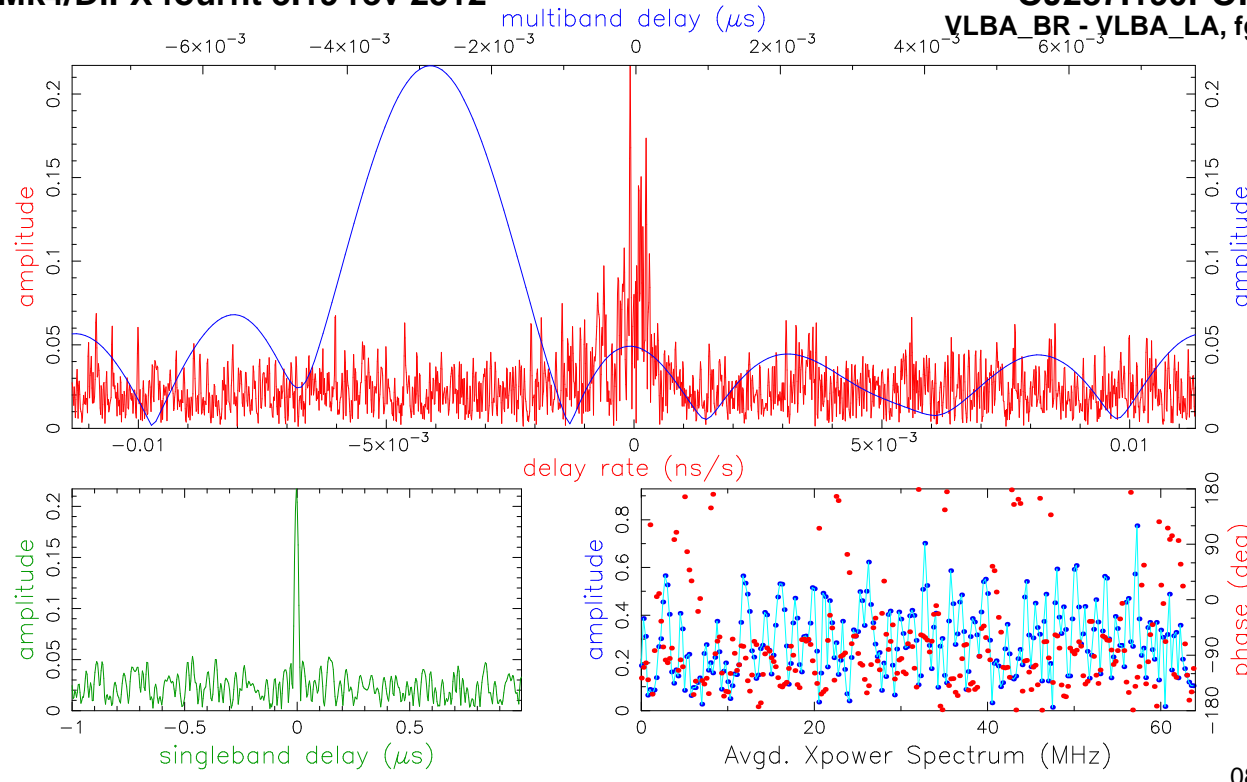


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-41.0	-22.6	-87.5	-40.5	-124.5	-50.1	-82.1	-1.6	Phase	-54.1
	0.8	0.9	0.7	0.8	0.9	0.7	0.9	0.9	Ampl.	0.8
	255.9	255.9	256.2	256.8	256.7	256.8	257.0	256.8	Sbd box	256.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.26713026593E+03		Apriori delay (usec)		6.26712685272E+03		Resid mbdelay (usec)		3.41321E-03	+/- 2.9E-05
Sband delay (usec)	6.26712337297E+03		Apriori clock (usec)		1.6756037E+01		Resid sbdelay (usec)		-3.47975E-03	+/- 2.3E-04
Phase delay (usec)	6.26712685097E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-1.74617E-06	+/- 9.8E-08
Delay rate (us/s)	-1.73246982777E+00		Apriori rate (us/s)		-1.73246991442E+00		Resid rate (us/s)		8.66481E-08	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.59981020920E-05		Resid phase (deg)		-54.1	+/- 3.0

ph/seg (deg) 63.1 7.3 Search (2048X32) 0.653 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 95.7 12.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.8 4.3 Inc. seg. avg. 1.135 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 26.2 7.5 Inc. frq. avg. 0.822 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 239.9 el 46.7 pa 35.9 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BI..190POF Output file: /Exps/c201c/v1/1234/No0032/BI.W.32.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bl
VLBA_BR - VLBA_LA, fgroup W, pol LR

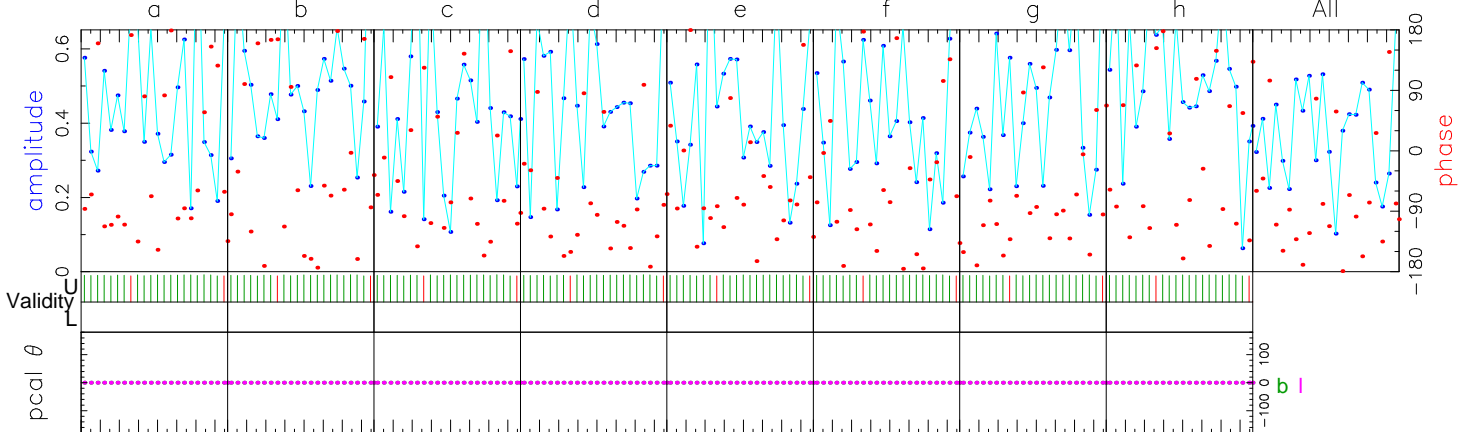


Fringe quality 9

SNR 12.3
Int time 426.572
Amp 0.217
Phase -109.1
PFD 7.5e-26
Delays (us)
SBD -0.003435
MBD -0.002839
Fringe rate (Hz)
-0.007051
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

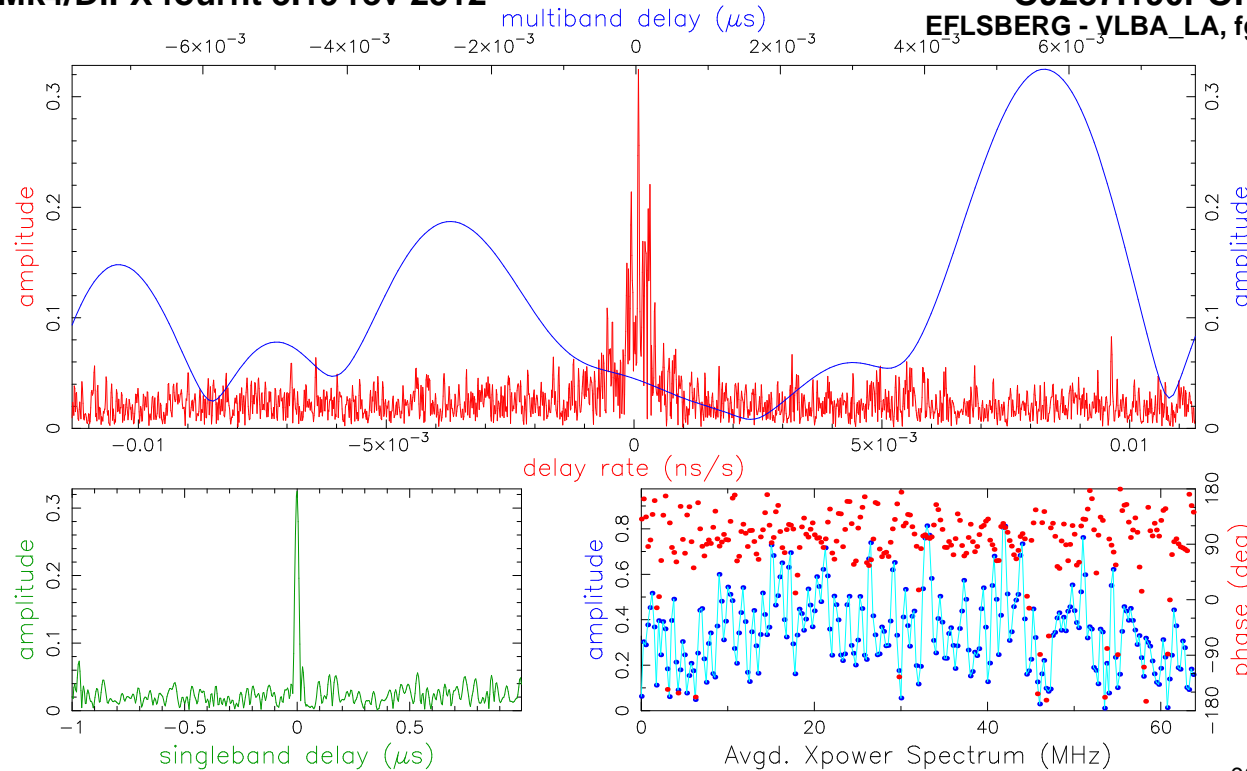
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210526
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.2	-120.8	-102.5	-111.0	-91.3	-117.3	-102.2	-122.3	Phase	-109.1
	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	255.7	256.7	91.6	256.4	255.6	255.2	256.0	256.3	Sbd box	256.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.76168841911E+03		Apriori delay (usec)		-2.76168558049E+03		Resid mbdelay (usec)		-2.83862E-03	+/- 8.9E-05
Sband delay (usec)	-2.76168901574E+03		Apriori clock (usec)		2.3049383E+00		Resid sbdelay (usec)		-3.43525E-03	+/- 7.0E-04
Phase delay (usec)	-2.76168558401E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-3.51773E-06	+/- 3.0E-07
Delay rate (us/s)	-1.58546264906E-01		Apriori rate (us/s)		-1.58546183048E-01		Resid rate (us/s)		-8.18575E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.08798631902E-05		Resid phase (deg)		-109.1	+/- 9.3

ph/seg (deg) 78.2 22.4 Search (2048X32) 0.206 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.0 39.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.5 13.2 Inc. seg. avg. 0.348 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.4 23.1 Inc. frq. avg. 0.214 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.49.190POF simultaneous interpolator

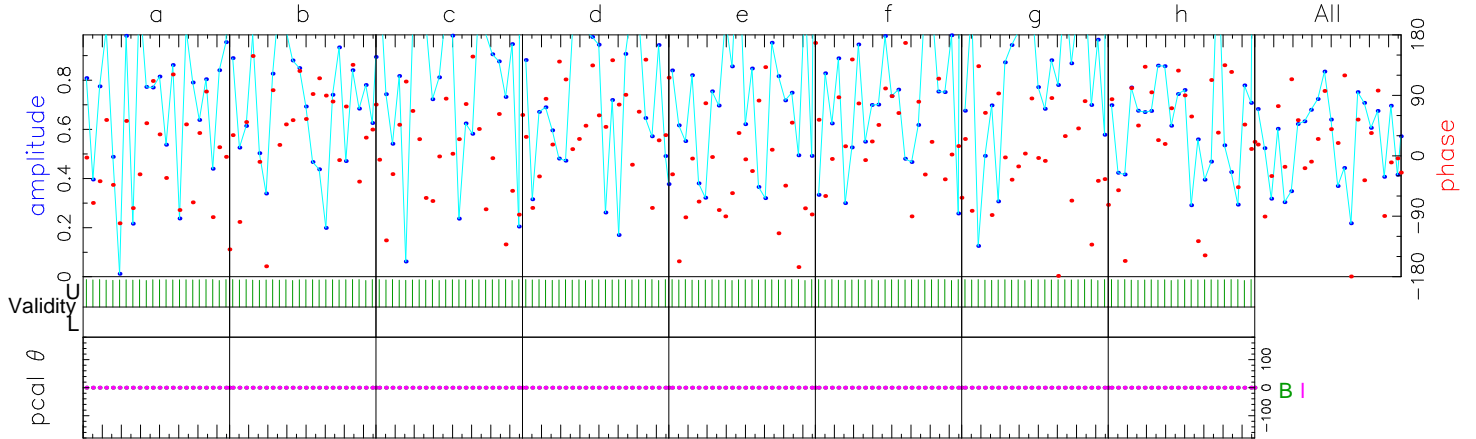


Fringe quality 8

SNR 18.7
Int time 433.766
Amp 0.328
Phase 26.6
PFD 0.0e+00
Delays (us)
SBD -0.001442
MBD 0.005615
Fringe rate (Hz)
0.007488
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

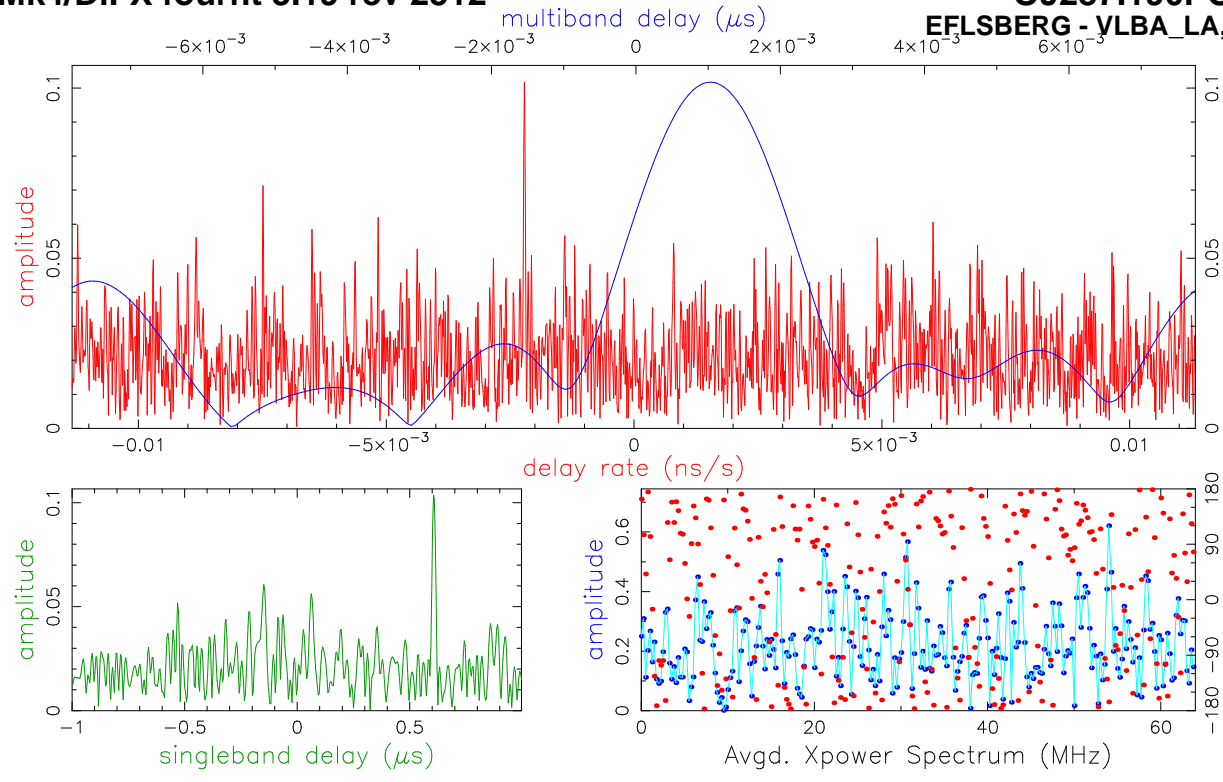
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210526
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



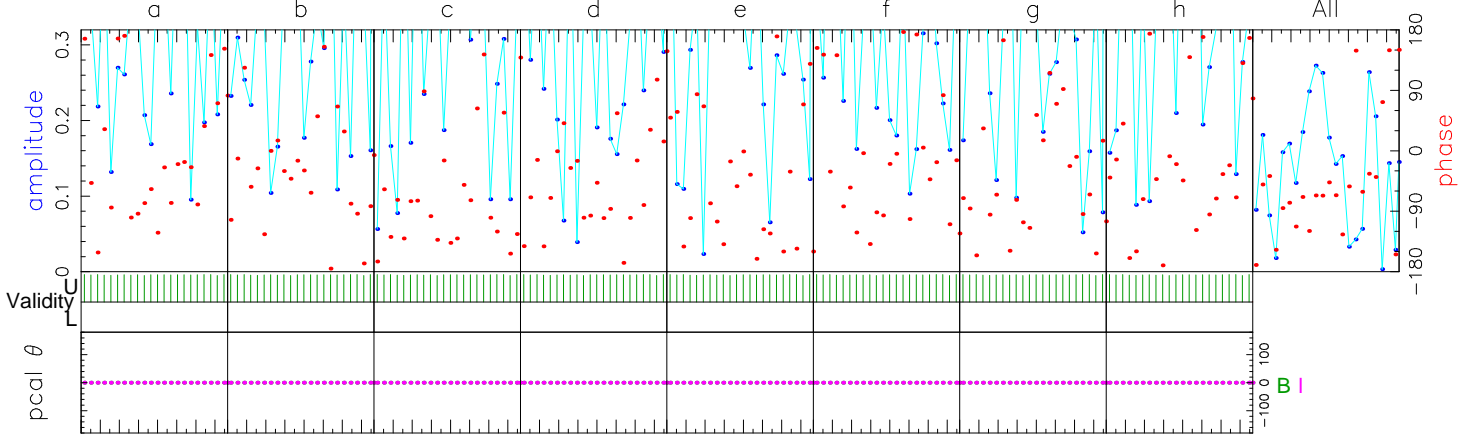
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	6.26713246806E+03		Apriori delay (usec)		6.26712685272E+03		Resid mbdelay (usec)		5.61534E-03	+/- 5.8E-05
Sband delay (usec)	6.26712541047E+03		Apriori clock (usec)		1.6756037E+01		Resid sbdelay (usec)		-1.44225E-03	+/- 4.6E-04
Phase delay (usec)	6.26712685358E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		8.59180E-07	+/- 2.0E-07
Delay rate (us/s)	-1.73246982749E+00		Apriori rate (us/s)		-1.73246991442E+00		Resid rate (us/s)		8.69259E-08	+/- 7.8E-10
Total phase (deg)	60.2		Apriori accel (us/s/s)		-2.59981020920E-05		Resid phase (deg)		26.6	+/- 6.1

ph/seg (deg) 66.0 14.7 Search (2048X32) 0.315 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.8 25.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.0 8.7 Inc. seg. avg. 0.537 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.8 15.1 Inc. frq. avg. 0.381 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 239.9 el 46.7 pa 35.9 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bl..190POF Output file: /Exps/c201c/v1/1234/No0032/Bl.W.51.190POF simultaneous interpolator



Fringe quality 0
SNR 6.0
Int time 433.764
Amp 0.107
Phase -75.0
PFD 4.4e-01
Delays (us)
SBD 0.607012
MBD 0.001072
Fringe rate (Hz)
-0.190930
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210530
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

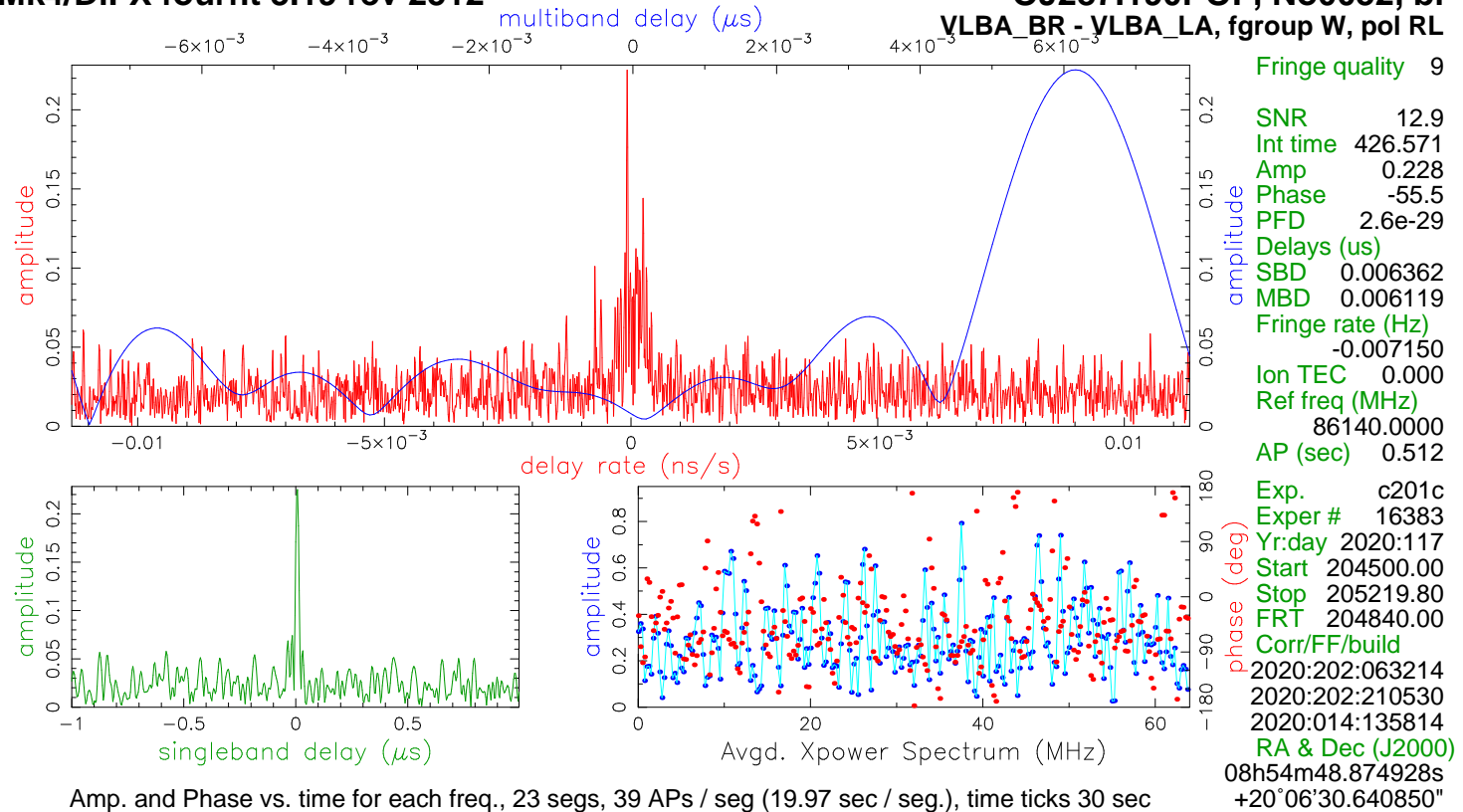
Group delay (usec)(sbd) 6.26773729990E+03 Apriori delay (usec) 6.26712685272E+03 Resid mbdelay (usec) 1.07218E-03 +/- 1.8E-04
Sband delay (usec) 6.26773386472E+03 Apriori clock (usec) 1.6756037E+01 Resid sbdelay (usec) 6.07012E-01 +/- 1.4E-03
Phase delay (usec) 6.26712685030E+03 Apriori clockrate (us/s) -4.8999999E-08 Resid phdelay (usec) -2.42005E-06 +/- 6.2E-07
Delay rate (us/s) -1.73247213092E+00 Apriori rate (us/s) -1.73246991442E+00 Resid rate (us/s) -2.21651E-06 +/- 2.4E-09
Total phase (deg) -41.5 Apriori accel (us/s/s) -2.59981020920E-05 Resid phase (deg) -75.0 +/- 19.2

RMS Theor. Amplitude 0.107 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 64.7 46.0 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 84.3 80.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 20.3 27.1 Inc. seg. avg. 0.105 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 27.9 47.3 Inc. frq. avg. 0.098 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

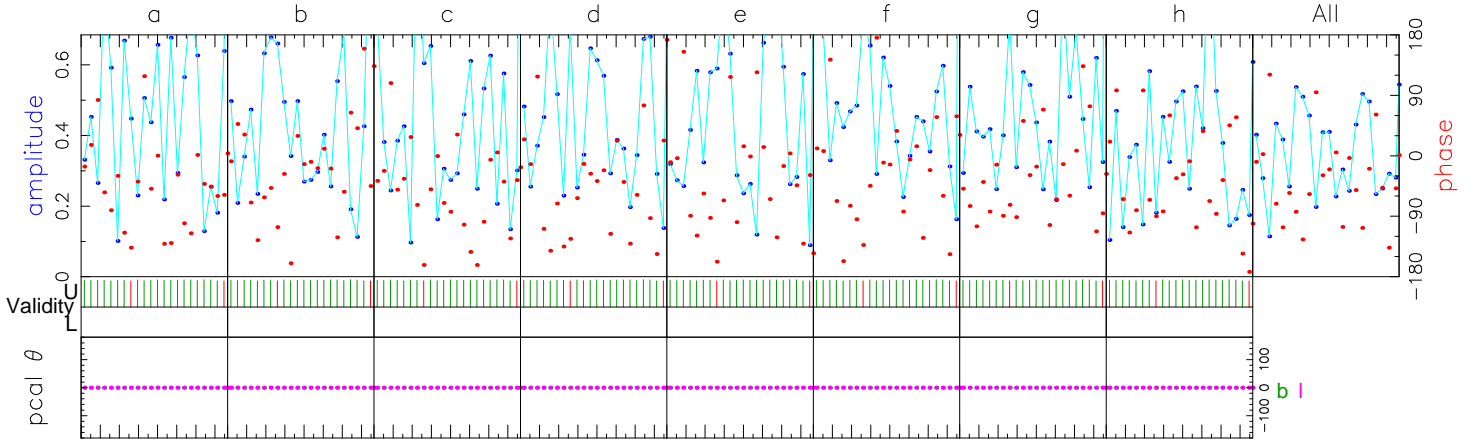
B: az 239.9 el 46.7 pa 35.9 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BI..190POF Output file: /Exps/c201c/v1/1234/No0032/BI.W.68.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bl
VLBA_BR - VLBA_LA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

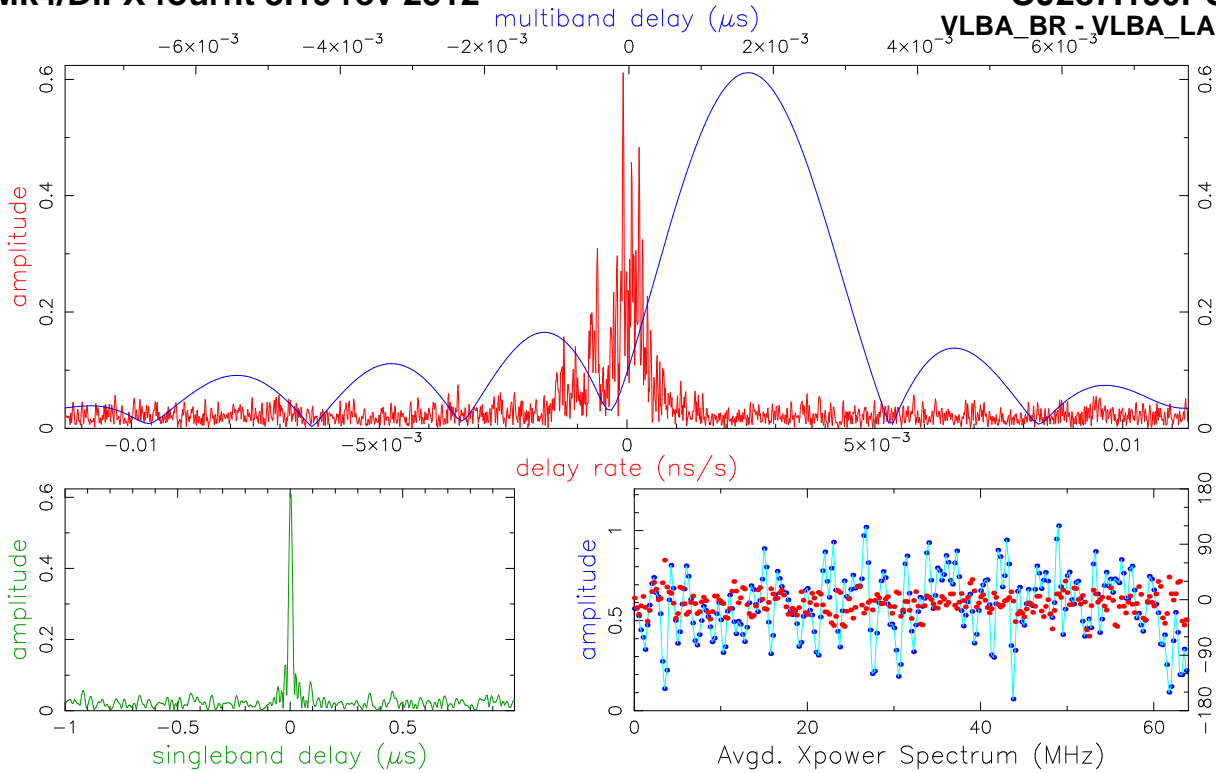


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.6	-41.6	-60.9	-62.0	-72.6	-38.3	-49.4	-56.4	Phase	-55.5
	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	258.3	258.6	258.2	257.8	258.8	259.0	259.1	259.4	Sbd box	258.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.76167946152E+03		Apriori delay (usec)		-2.76168558049E+03		Resid mbdelay (usec)		6.11897E-03	+/- 8.4E-05
Sband delay (usec)	-2.76167921874E+03		Apriori clock (usec)		2.3049383E+00		Resid sbdelay (usec)		6.36175E-03	+/- 6.7E-04
Phase delay (usec)	-2.76168558228E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-1.79096E-06	+/- 2.9E-07
Delay rate (us/s)	-1.58546266050E-01		Apriori rate (us/s)		-1.58546183048E-01		Resid rate (us/s)		-8.30019E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		2.08798631902E-05		Resid phase (deg)		-55.5	+/- 8.9

	RMS	Theor.	Amplitude	0.228 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	68.2	21.3	Search (2048X32)	0.209	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	73.4	37.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	12.7	12.6	Inc. seg. avg.	0.326	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.7	21.9	Inc. frq. avg.	0.224	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.71.190POF

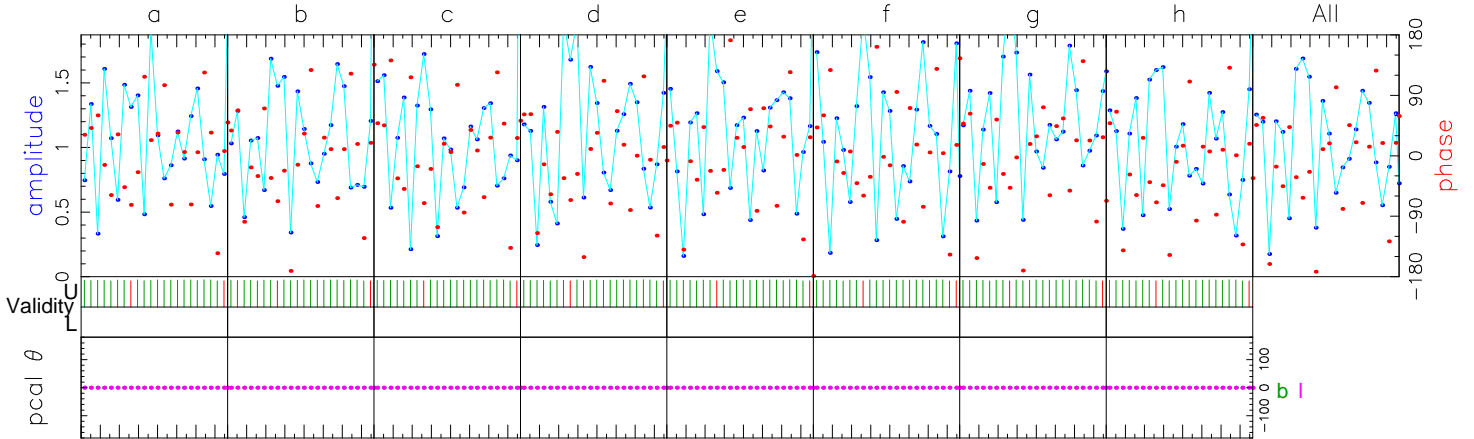


Fringe quality 7

SNR 35.2
Int time 426.570
Amp 0.624
Phase -3.9
PFD 0.0e+00
Delays (us)
SBD 0.001837
MBD 0.001690
Fringe rate (Hz)
-0.007017
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210516
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



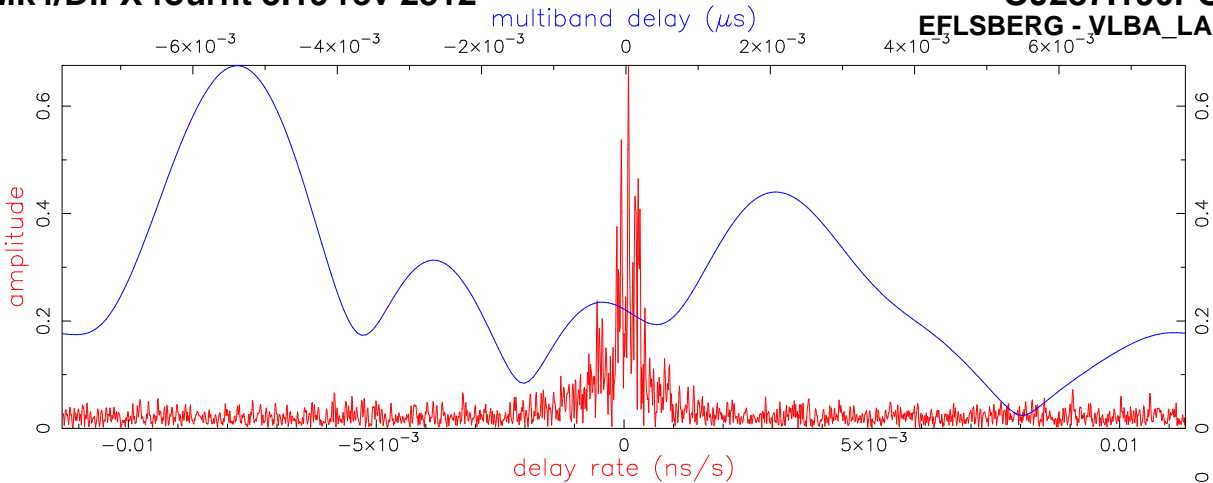
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.76168389024E+03	Apriori delay (usec)	-2.76168558049E+03	Resid mbdelay (usec)	1.69025E-03	+/-	3.1E-05
Sband delay (usec)	-2.76168374374E+03	Apriori clock (usec)	2.3049383E+00	Resid sbdelay (usec)	1.83675E-03	+/-	2.4E-04
Phase delay (usec)	-2.76168558061E+03	Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	-1.24491E-03	+/-	1.0E-07
Delay rate (us/s)	-1.58546264507E-01	Apriori rate (us/s)	-1.58546183048E-01	Resid rate (us/s)	-8.14586E-08	+/-	4.1E-10
Total phase (deg)	-329.0	Apriori accel (us/s/s)	2.08798631902E-05	Resid phase (deg)	-3.9	+/-	3.3

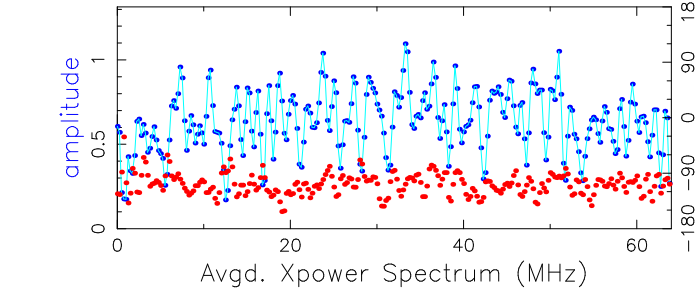
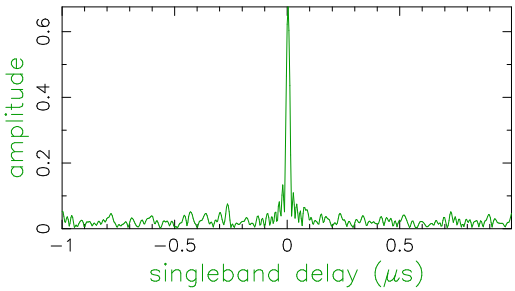
ph/seg (deg)	75.7	Theor.	7.8	Search (2048X32)	0.581	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	93.1		13.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	7.2		4.6	Inc. seg. avg.	1.034	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	8.6		8.0	Inc. frq. avg.	0.613	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 78.2 el 16.5 pa -44.1 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 999.046 1924.652 simultaneous interpolator

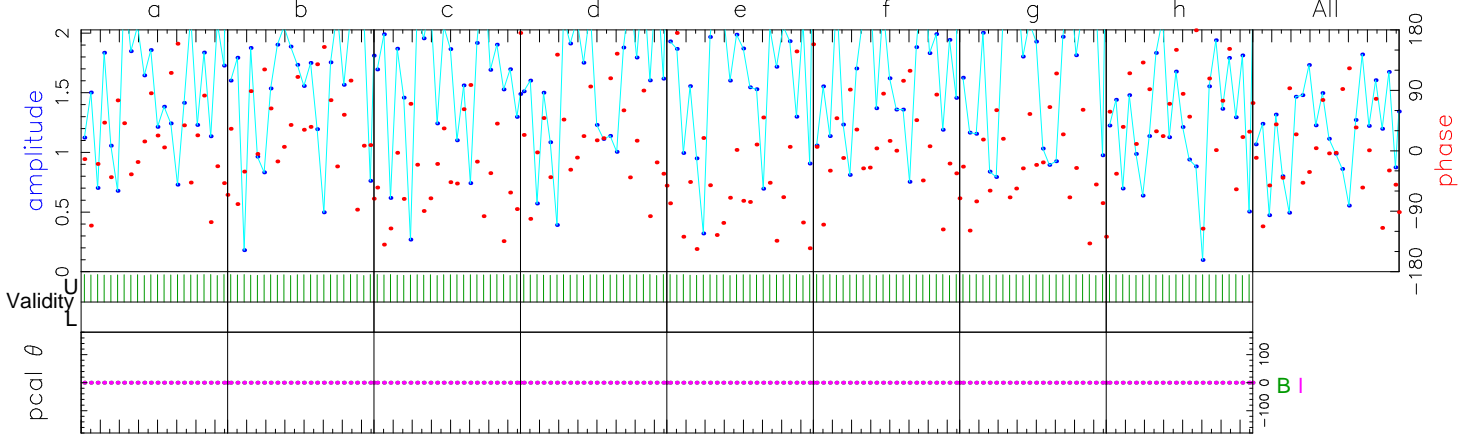
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bl..190POF Output file: /Exps/c201c/v1/1234/No0032/bl.W.8.190POF



Fringe quality 4
SNR 38.5
Int time 433.764
Amp 0.676
Phase -5.1
PFD 0.0e+00
Delays (us)
SBD 0.003598
MBD -0.005395
Fringe rate (Hz) 0.007493
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210517
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

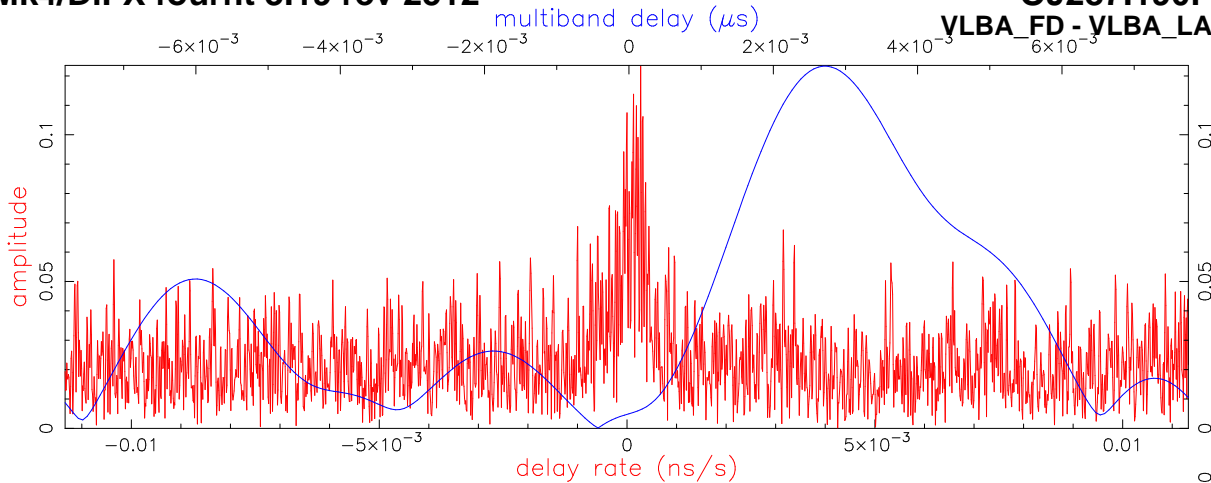


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

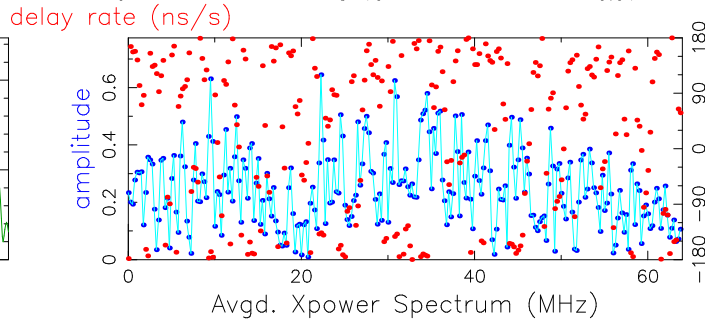
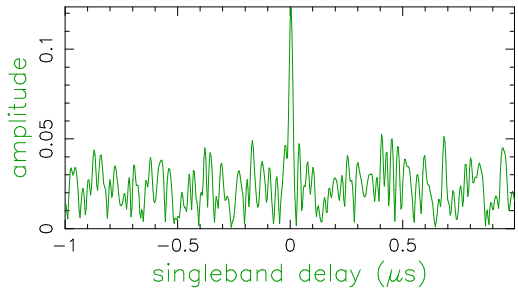
Group delay (usec)(sbd)	6.26713708234E+03	Apriori delay (usec)	6.26712685272E+03	Resid mbdelay (usec)	-5.39538E-03	+/-	2.8E-05
Sband delay (usec)	6.26713045072E+03	Apriori clock (usec)	1.6756037E+01	Resid sbdelay (usec)	3.59800E-03	+/-	2.2E-04
Phase delay (usec)	6.26712685255E+03	Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	-1.65186E-07	+/-	9.6E-08
Delay rate (us/s)	-1.73246982742E+00	Apriori rate (us/s)	-1.73246991442E+00	Resid rate (us/s)	8.69917E-08	+/-	3.8E-10
Total phase (deg)	28.4	Apriori accel (us/s/s)	-2.59981020920E-05	Resid phase (deg)	-5.1	+/-	3.0

ph/seg (deg)	63.3	RMS	7.1	Theor.	7.1	Amplitude	0.676 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	93.6	Search (2048X32)	0.670	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	48.7	Inc. seg. avg.	1.172	Inc. frq. avg.	0.881	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	33.5	Inc. frq. avg.	0.881	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011

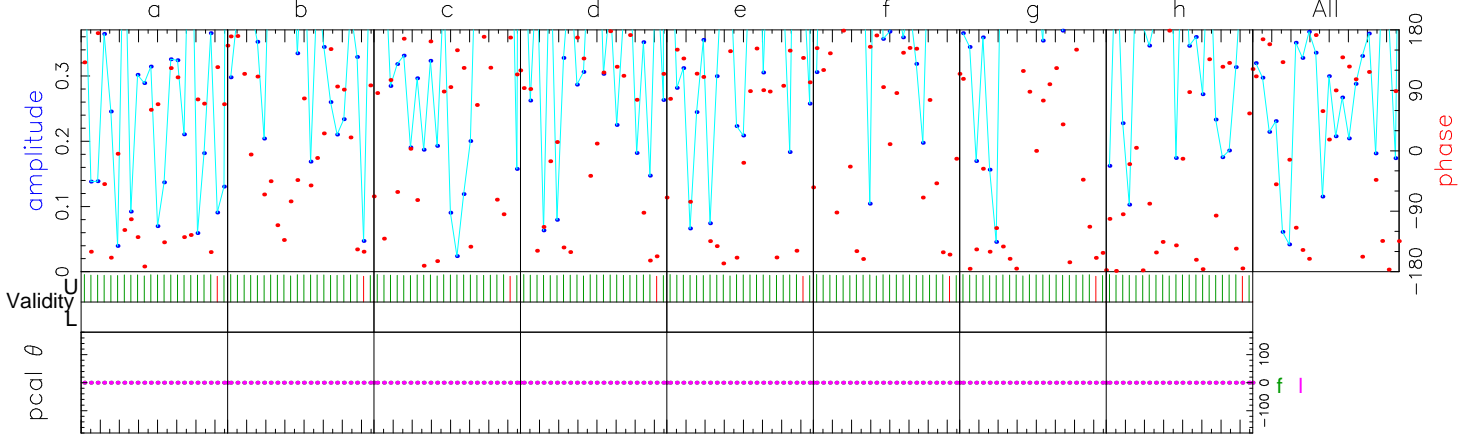
B: az 239.9 el 46.7 pa 35.9 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BI..190POF Output file: /Exps/c201c/v1/1234/No0032/BI.W.9.190POF



Fringe quality 0
SNR 7.0
Int time 429.208
Amp 0.124
Phase 166.4
PFD 7.6e-04
Delays (us)
SBD 0.003299
MBD 0.002705
Fringe rate (Hz) 0.024208
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210549
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

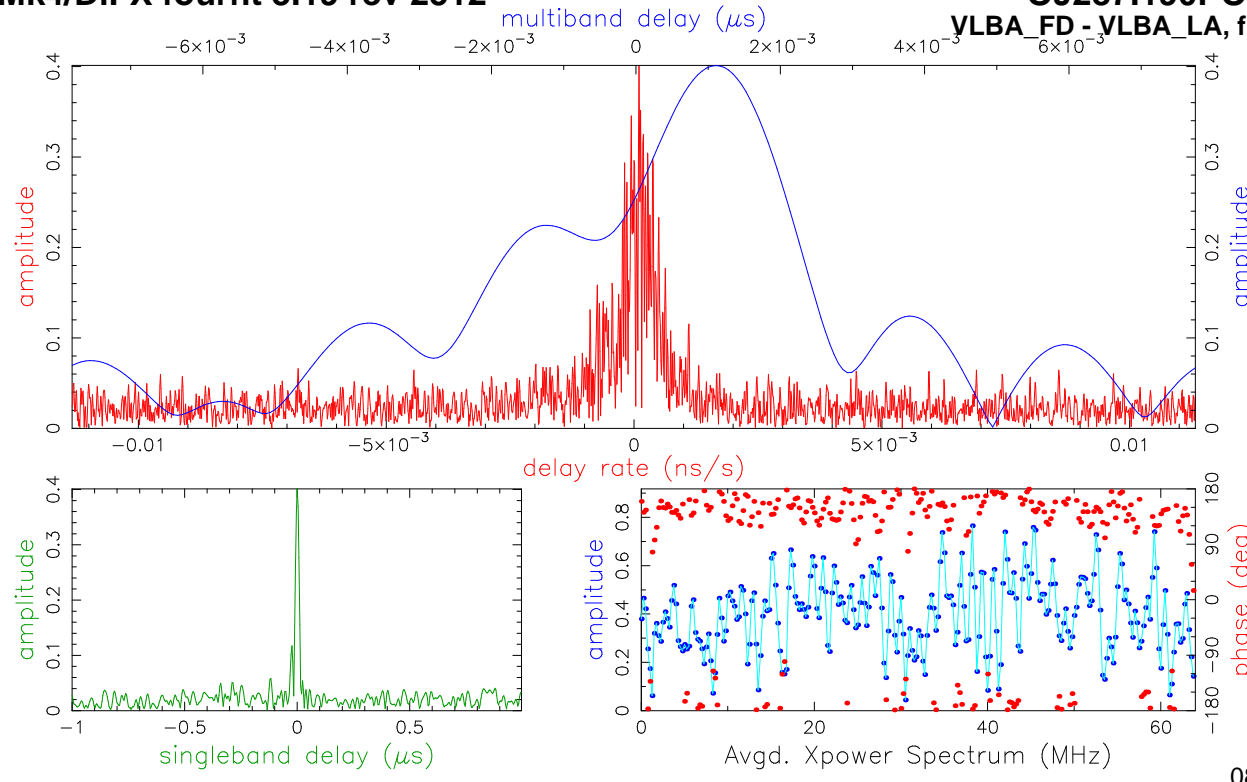


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-166.6	6.6	168.2	160.4	143.2	165.8	166.4	-167.0	Phase	166.4
	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	164.8	225.1	255.0	471.9	258.1	251.8	258.9	259.0	Sbd box	257.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.08120131835E+02	Apriori delay (usec)	4.08117426358E+02	Resid mbdelay (usec)	2.70548E-03	+/-	1.6E-04
Sband delay (usec)	4.08120725358E+02	Apriori clock (usec)	7.6235595E+00	Resid sbdelay (usec)	3.29900E-03	+/-	1.2E-03
Phase delay (usec)	4.08117431724E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	5.36606E-06	+/-	5.3E-07
Delay rate (us/s)	5.21691107496E-02	Apriori rate (us/s)	5.21688297130E-02	Resid rate (us/s)	2.81037E-07	+/-	2.1E-09
Total phase (deg)	204.7	Apriori accel (us/s/s)	-5.02870746522E-06	Resid phase (deg)	166.4	+/-	16.4

ph/seg (deg)	82.3	Theor.	39.2	Amplitude	0.124 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	141.9	Search (2048X32)	0.115	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	67.8	Inc. seg. avg.	0.215	Inc. frq. avg.	0.124	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	52.2	Inc. frq. avg.	0.124			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

f: az 80.8 el 25.4 pa -64.7 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -325.390 -766.793 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fl..190POF Output file: /Exps/c201c/v1/1234/No0032/fl.W.137.190POF

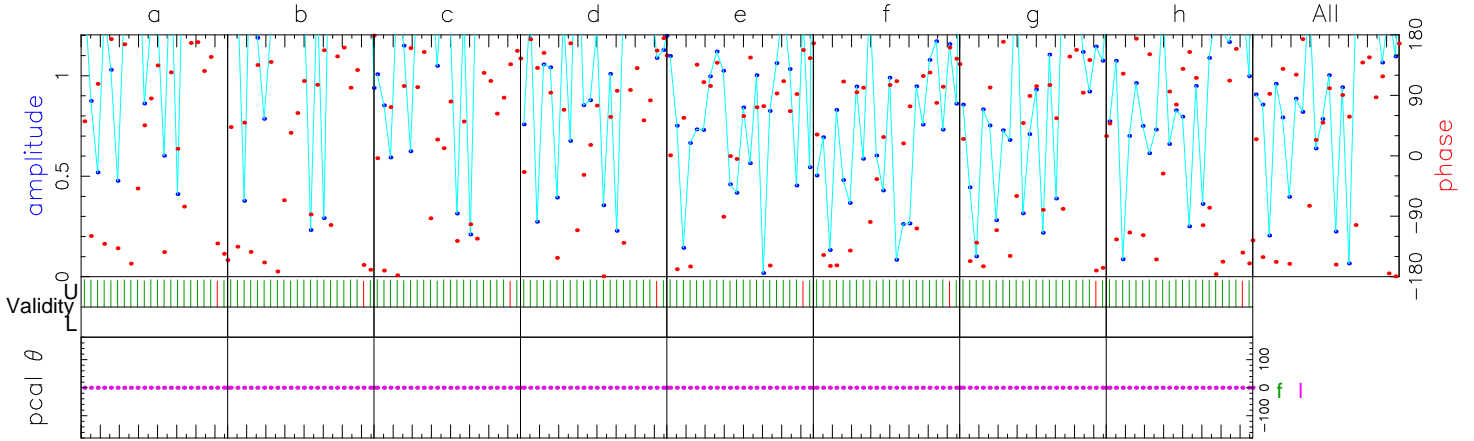


Fringe quality 8

SNR 22.7
Int time 429.208
Amp 0.401
Phase 144.0
PFD 0.0e+00
Delays (us)
SBD 0.000229
MBD 0.001113
Fringe rate (Hz) 0.008623
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210533
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



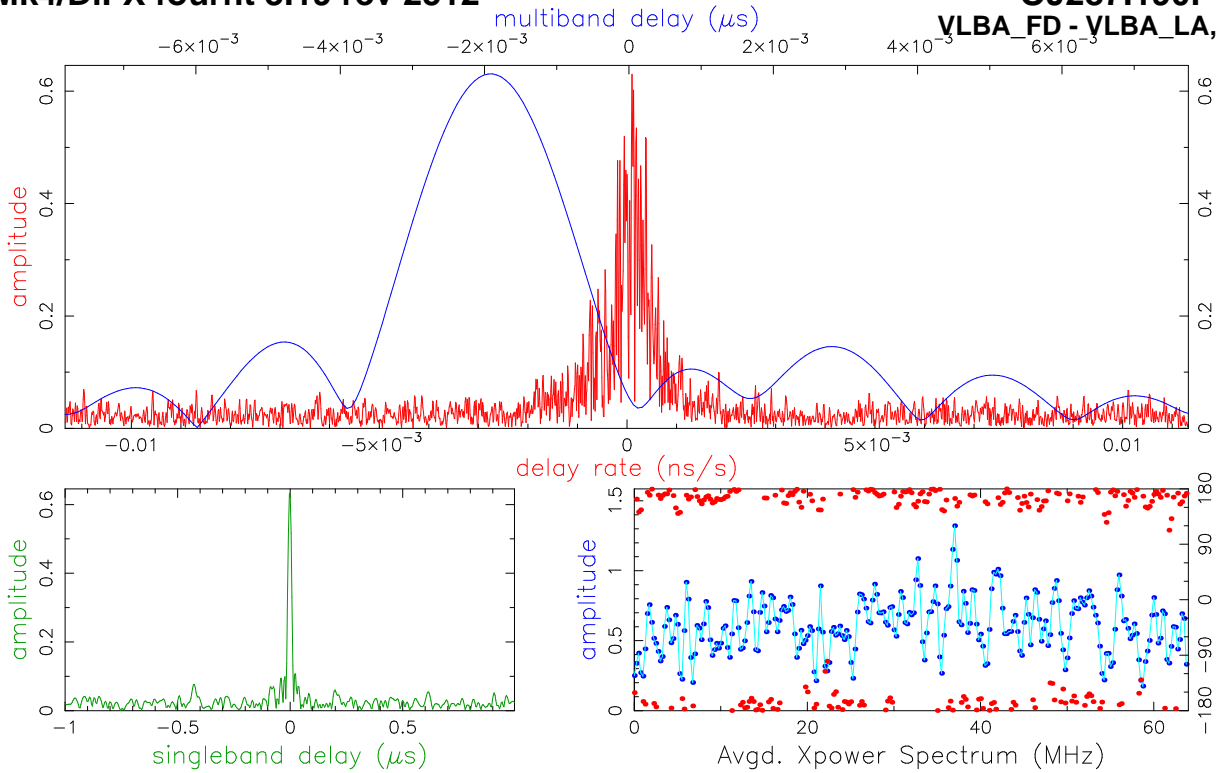
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	177.2	155.0	112.0	115.3	113.4	130.3	155.9	-176.3	Phase	144.0
	0.6	0.7	0.6	0.4	0.4	0.3	0.3	0.4	Ampl.	0.4
	257.6	256.8	257.1	257.3	257.4	257.6	256.8	257.8	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.08118539441E+02	Apriori delay (usec)	4.08117426358E+02	Resid mbdelay (usec)	1.11308E-03	+/-	4.8E-05
Sband delay (usec)	4.08117655608E+02	Apriori clock (usec)	7.6235595E+07	Resid sbdelay (usec)	2.29250E-04	+/-	3.8E-04
Phase delay (usec)	4.08117431002E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	4.64419E-06	+/-	1.6E-07
Delay rate (us/s)	5.21689298166E-02	Apriori rate (us/s)	5.21688297130E-02	Resid rate (us/s)	1.00104E-07	+/-	6.4E-10
Total phase (deg)	182.3	Apriori accel (us/s/s)	-5.02870746522E-06	Resid phase (deg)	144.0	+/-	5.0

ph/seg (deg)	RMS 70.0	Theor. 12.1	Amplitude Search (2048X32)	0.401 +/- 0.018	0.397	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	158.4	21.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	31.4	7.1	Inc. seg. avg.	0.881	Bits/sample: 2x2	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
amp/frq (%)	34.3	12.4	Inc. frq. avg.	0.448	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	dr window (ns/s) -0.011 0.011

f: az 80.8 el 25.4 pa -64.7 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -325.390 -766.793 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fl..190POF Output file: /Exps/c201c/v1/1234/No0032/fl.W.81.190POF

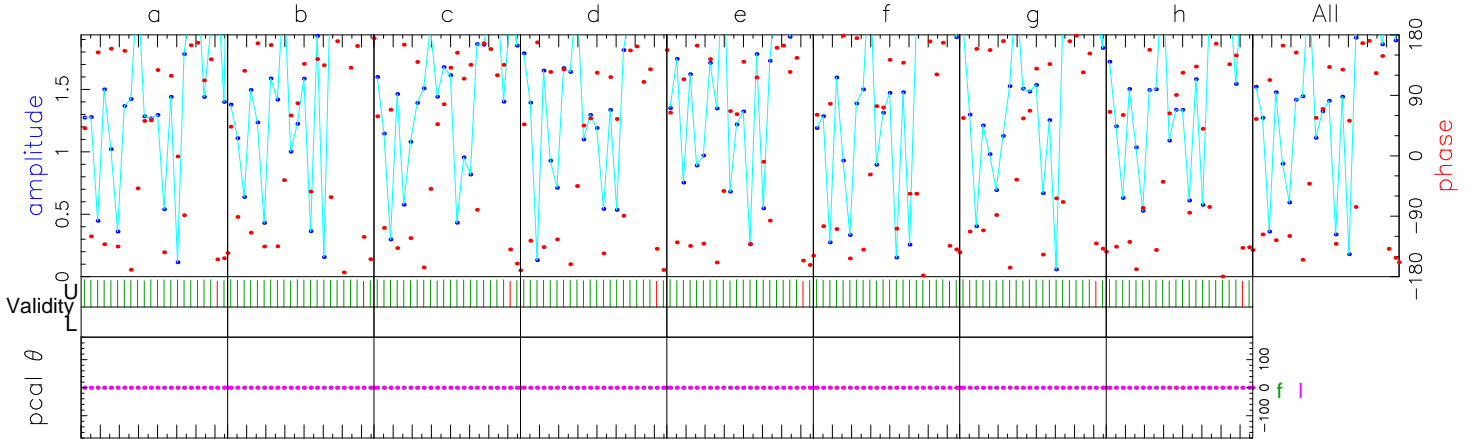


Fringe quality 7

SNR 36.6
Int time 429.210
Amp 0.646
Phase 175.1
PFD 0.0e+00
Delays (us)
SBD -0.002005
MBD -0.001967
Fringe rate (Hz) 0.008642
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210539
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

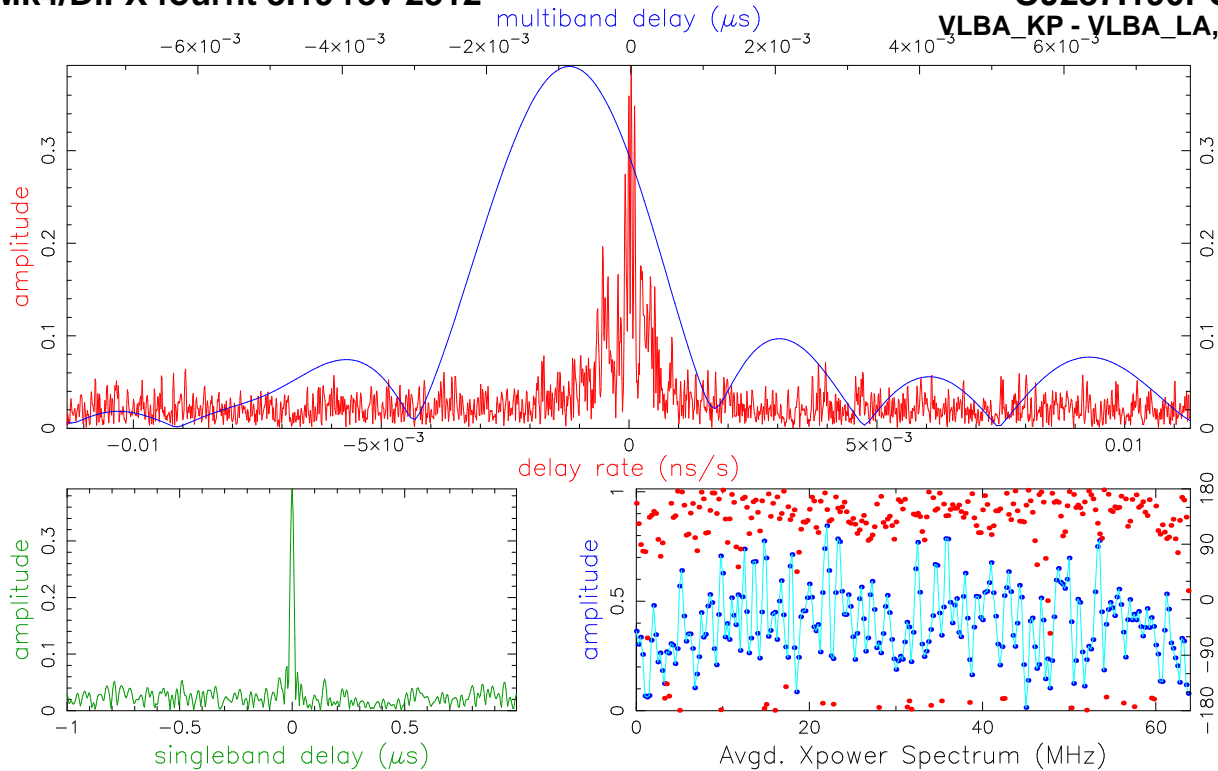


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.3	-175.0	163.3	160.8	172.6	-172.7	177.6	-179.0	Phase	175.1
	0.6	0.7	0.6	0.6	0.8	0.6	0.6	0.6	Ampl.	0.6
	256.5	256.3	256.2	256.7	256.5	256.7	256.7	256.3	Sbd box	256.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.08115459441E+02		Apriori delay (usec)		4.08117426358E+02		Resid mbdelay (usec)		-1.96692E-03	+/- 3.0E-05
Sband delay (usec)	4.08115421858E+02		Apriori clock (usec)		7.6235595E+07		Resid sbdelay (usec)		-2.00450E-03	+/- 2.4E-04
Phase delay (usec)	4.08117432003E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		5.64528E-06	+/- 1.0E-07
Delay rate (us/s)	5.21689300327E-02		Apriori rate (us/s)		5.21688297130E-02		Resid rate (us/s)		1.00320E-07	+/- 4.0E-10
Total phase (deg)	213.4		Apriori accel (us/s/s)		-5.02870746522E-06		Resid phase (deg)		175.1	+/- 3.1

ph/seg (deg) RMS Theor. Amplitude 0.646 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.5 7.5 Search (2048X32) 0.626 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 161.4 13.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.3 4.4 Inc. seg. avg. 1.442 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.3 7.7 Inc. frq. avg. 0.636 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

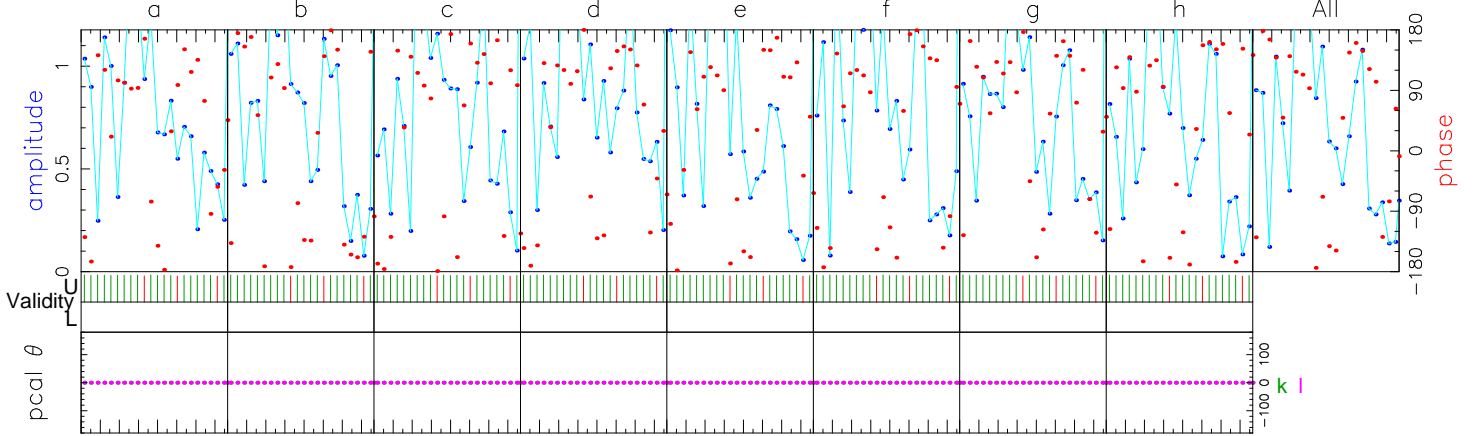
f: az 80.8 el 25.4 pa -64.7 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -325.390 -766.793 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fl..190POF Output file: /Exps/c201c/v1/1234/No0032/fl.W.99.190POF



Fringe quality 9
SNR 22.1
Int time 425.516
Amp 0.392
Phase 147.0
PFD 0.0e+00
Delays (us)
SBD -0.000699
MBD -0.000868
Fringe rate (Hz) 0.004213
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210541
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-1.71828462284E+03				-1.71828375482E+03				Resid mbdelay (usec)	-8.68019E-04	+/- 4.9E-05
Sband delay (usec)	-1.71828445432E+03				3.3726089E+00				Resid sbdelay (usec)	-6.99500E-04	+/- 3.9E-04
Phase delay (usec)	-1.71828375008E+03				1.5640000E-07				Resid phdelay (usec)	4.74023E-06	+/- 1.7E-07
Delay rate (us/s)	8.06500561951E-02				8.06500072912E-02				Resid rate (us/s)	4.89039E-08	+/- 6.6E-10
Total phase (deg)			-83.4		7.01695194059E-06				Resid phase (deg)	147.0	+/- 5.2

ph/seg (deg) 67.6 12.4
amp/seg (%) 130.1 21.7
ph/frq (deg) 12.2 7.3
amp/frq (%) 16.1 12.8

RMS Theor. Amplitude 0.392 +/- 0.018
67.6 12.4 Search (2048X32) 0.374
130.1 21.7 Interp. 0.000
12.2 7.3 Inc. seg. avg. 0.694
16.1 12.8 Inc. frq. avg. 0.393

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

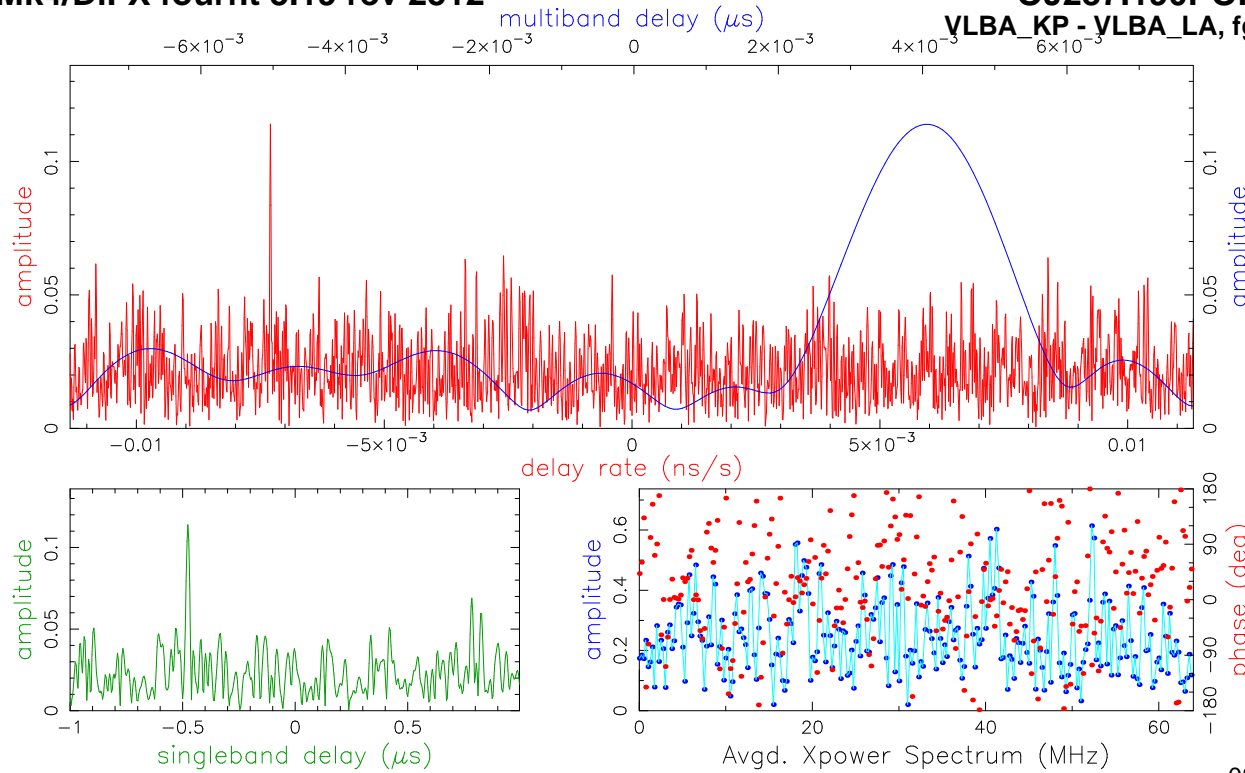
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

k: az 77.9 el 19.2 pa -62.2 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -479.232 -256.781 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kl..190POF Output file: /Exps/c201c/v1/1234/No0032/kl.W.107.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kl
VLBA_KP - VLBA_LA, fgroup W, pol LR

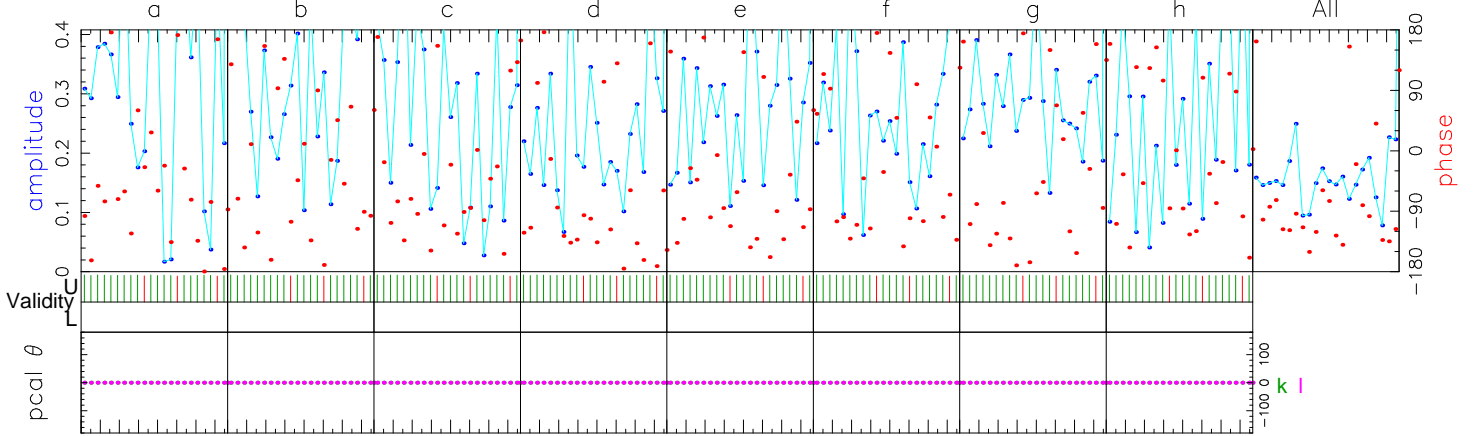


Fringe quality 0

SNR 6.4
Int time 425.515
Amp 0.136
Phase -107.6
PFD 3.5e-02
Delays (us)
SBD -0.476443
MBD 0.004064
Fringe rate (Hz)
-0.629061
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210545
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

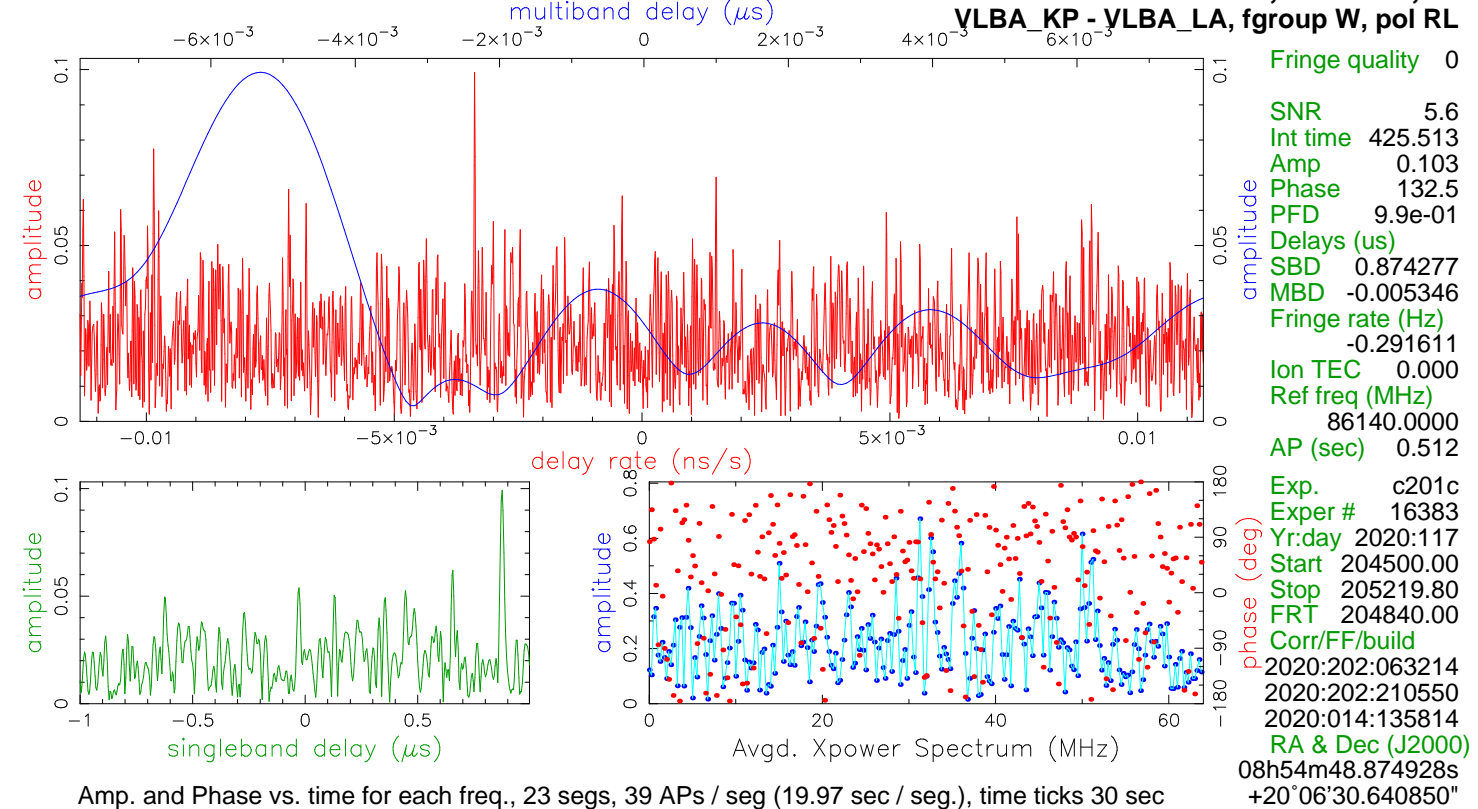


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.7	-116.1	-90.9	-137.9	-106.4	-119.1	-113.8	-82.9	Phase	-107.6
	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	316.6	380.8	470.3	115.7	40.8	138.1	316.2	168.3	Sbd box	135.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.71876406536E+03		Apriori delay (usec)		-1.71828375482E+03		Resid mbdelay (usec)		4.06446E-03	+/- 1.7E-04
Sband delay (usec)	-1.71876019782E+03		Apriori clock (usec)		3.3726089E+00		Resid sbdelay (usec)		-4.76443E-01	+/- 1.3E-03
Phase delay (usec)	-1.71828375829E+03		Apriori clockrate (us/s)		1.5640000E-07		Resid phdelay (usec)		-3.46904E-06	+/- 5.8E-07
Delay rate (us/s)	8.06427045187E-02		Apriori rate (us/s)		8.06500072912E-02		Resid rate (us/s)		-7.30277E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		7.01695194059E-06		Resid phase (deg)		-107.6	+/- 17.8

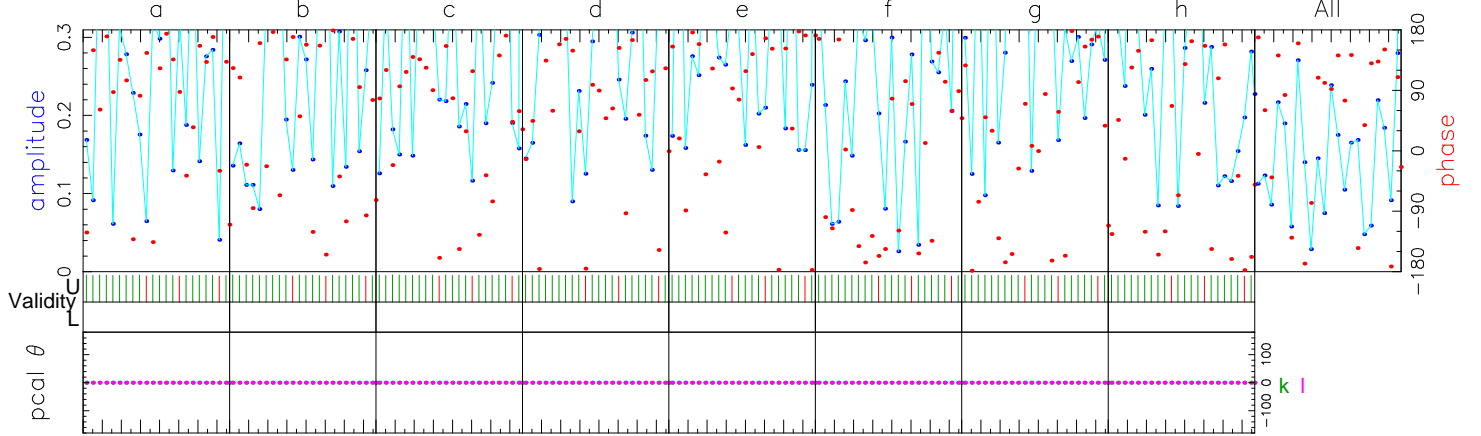
ph/seg (deg) 51.8 42.8 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.4 74.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.5 25.2 Inc. seg. avg. 0.147 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.5 44.0 Inc. frq. avg. 0.129 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -479.232 -256.781 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kl..190POF Output file: /Exps/c201c/v1/1234/No0032/kl.W.123.190POF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

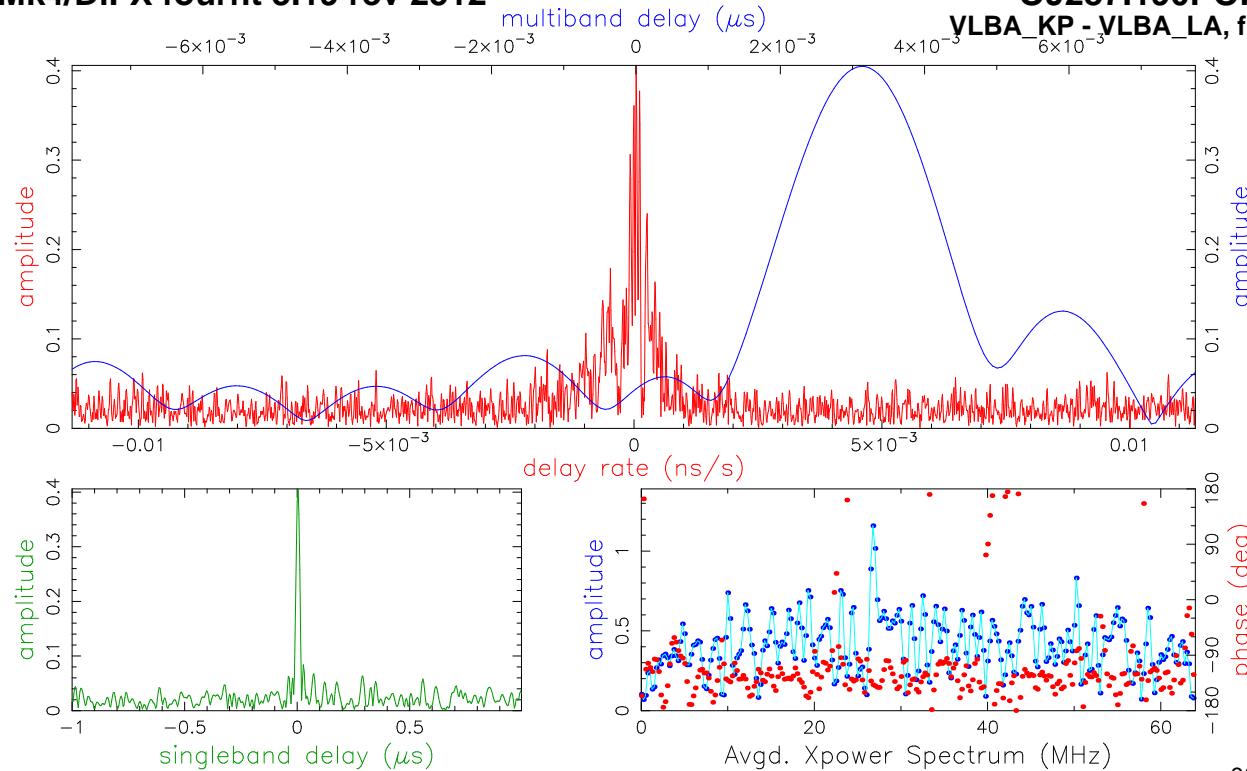
OJ287.190POF, No0032, kl
VLBA_KP - VLBA_LA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
134.6	-177.2	124.9	108.2	122.7	135.1	129.8	162.2		Phase	132.5
0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1		Ampl.	0.1
200.6	345.7	483.0	480.9	259.2	232.4	376.2	143.3		Sbd box	480.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used	
k	1000	1000	1000	1000	1000	1000	1000		PC freqs	
l	1000	1000	1000	1000	1000	1000	1000		PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
k	1000	1000	1000	1000	1000	1000	1000		PC amp	
l	1000	1000	1000	1000	1000	1000	1000			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.71741410042E+03		Apriori delay (usec)	-1.71828375482E+03		Resid mbdelay (usec)	-5.34560E-03		+/-	1.9E-04
Sband delay (usec)	-1.71740947832E+03		Apriori clock (usec)	3.3726089E+00		Resid sbdelay (usec)	8.74277E-01		+/-	1.5E-03
Phase delay (usec)	-1.71828375055E+03		Apriori clockrate (us/s)	1.5640000E-07		Resid phdelay (usec)	4.27210E-06		+/-	6.6E-07
Delay rate (us/s)	8.06466219793E-02		Apriori rate (us/s)	8.06500072912E-02		Resid rate (us/s)	-3.38531E-06		+/-	2.6E-09
Total phase (deg)		-97.9	Apriori accel (us/s/s)	7.01695194059E-06		Resid phase (deg)	132.5		+/-	20.4
RMS		Theor.	Amplitude	0.103 +/- 0.018		Pcal mode: MANUAL, MANUAL			PC period (AP's)	5, 5
ph/seg (deg)	68.3	49.0	Search (2048X32)	0.096		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000
amp/seg (%)	88.8	85.5	Interp.	0.000		Bits/sample: 2x2			mb window (us)	-0.008 0.008
ph/frq (deg)	26.4	28.9	Inc. seg. avg.	0.110		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011
amp/frq (%)	45.8	50.4	Inc. frq. avg.	0.098		Data rate(Mb/s): 2048			ion window (TEC)	0.00 0.00
lags: 256						nlags: 256			t_cohere infinite	
k: az 77.9 el 19.2 pa -62.2			l: az 82.1 el 24.3 pa -58.9			u,v (fr/asec) -479.232 -256.781				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c201c/v1/1234/No0032/kl..190POF			Output file: /Exps/c201c/v1/1234/No0032/kl.W.143.190POF				

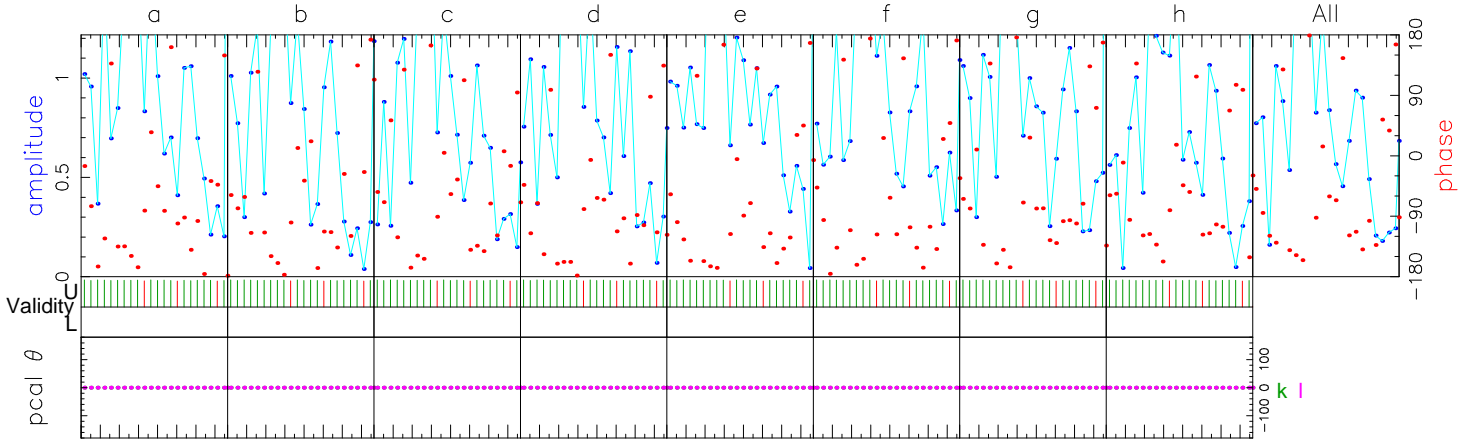


Fringe quality 9

SNR 22.9
Int time 425.513
Amp 0.406
Phase -125.8
PFD 0.0e+00
Delays (us)
SBD 0.003220
MBD 0.003119
Fringe rate (Hz) 0.004215
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210537
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.6	-121.6	-127.4	-129.4	-141.4	-140.6	-120.7	-101.9	Phase	-125.8
	0.5	0.4	0.3	0.4	0.5	0.5	0.4	0.4	Ampl.	0.4
	258.1	257.4	258.0	258.1	257.8	258.1	257.8	257.6	Sbd box	257.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.71828063565E+03				-1.71828375482E+03				Resid mbdelay (usec)	3.11917E-03 +/- 4.7E-05
Sband delay (usec)	-1.71828053507E+03				3.3726089E+00				Resid sbdelay (usec)	3.21975E-03 +/- 3.8E-04
Phase delay (usec)	-1.71828375888E+03				1.5640000E-07				Resid phdelay (usec)	-4.05747E-06 +/- 1.6E-07
Delay rate (us/s)	8.06500562235E-02				8.06500072912E-02				Resid rate (us/s)	4.89323E-08 +/- 6.4E-10
Total phase (deg)			-356.2		7.01695194059E-06				Resid phase (deg)	-125.8 +/- 5.0

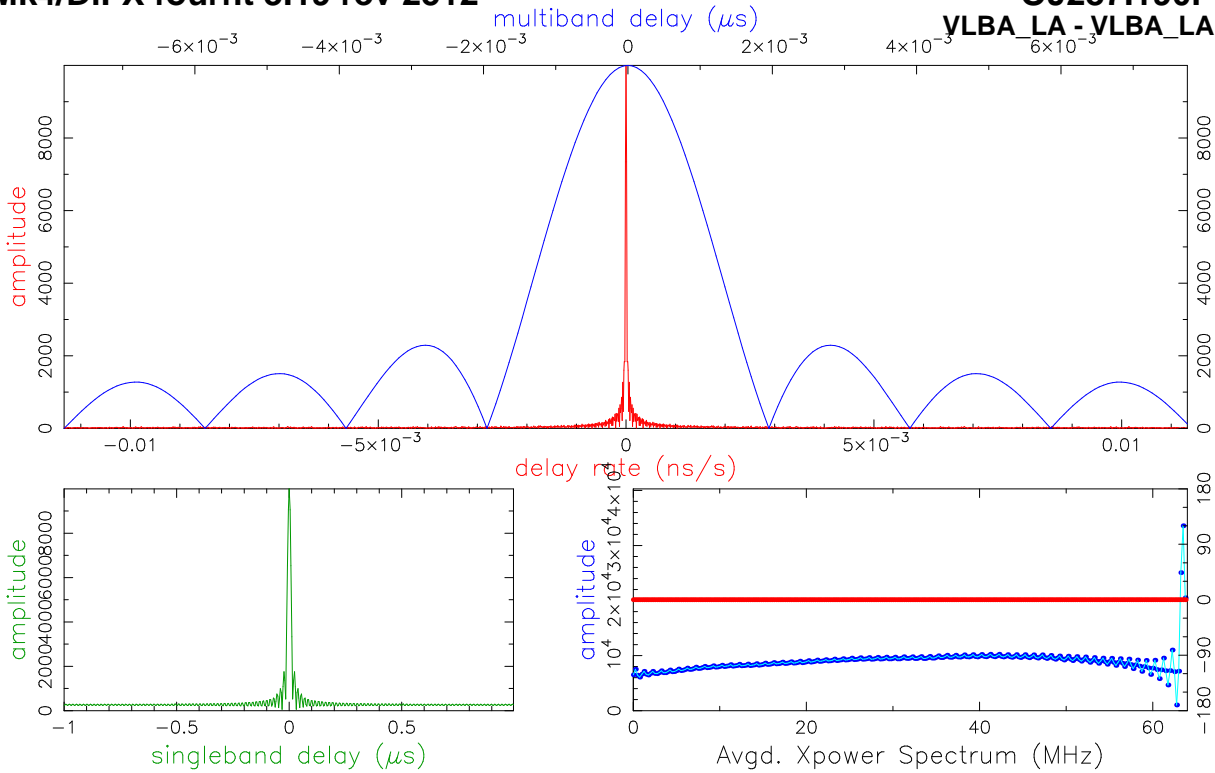
ph/seg (deg) 75.2 12.0
amp/seg (%) 134.3 20.9
ph/frq (deg) 13.9 7.1
amp/frq (%) 13.4 12.4

RMS Theor. Amplitude 0.406 +/- 0.018
Search (2048X32) 0.384
Interp. 0.000
Inc. seg. avg. 0.737
Inc. frq. avg. 0.411

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

k: az 77.9 el 19.2 pa -62.2 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -479.232 -256.781 simultaneous interpolator

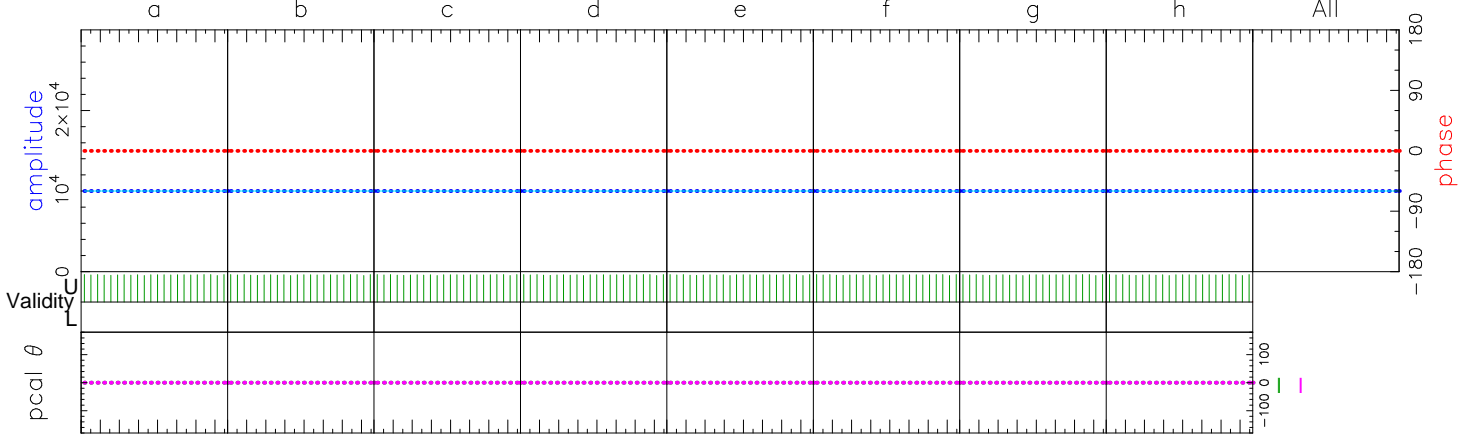


Fringe quality 9

SNR 569583.0
Int time 433.829
Amp 9999.998
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. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210541
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

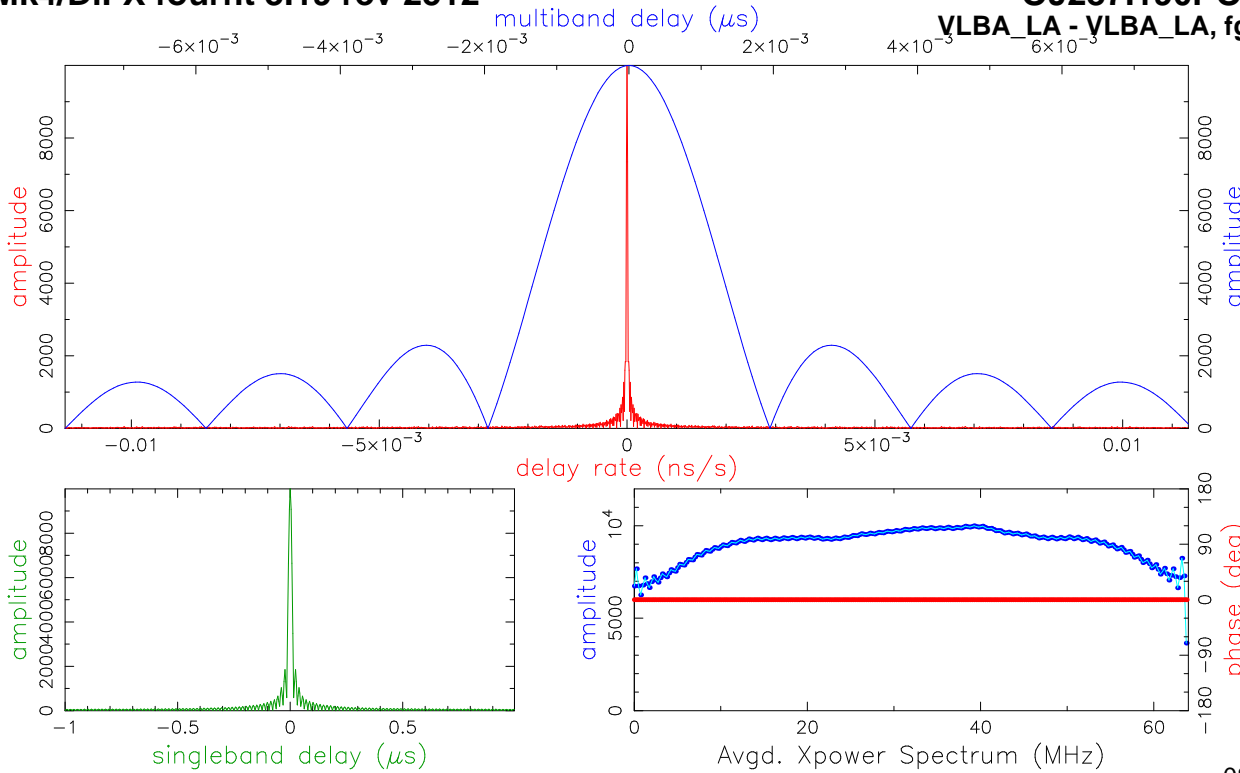


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) -1.24977856411E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.24978E-19 +/- 6.5E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.6E-14
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 9999.998 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.998 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.998 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 82.1 el 24.3 pa -58.9 i: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ll..190POF Output file: /Exps/c201c/v1/1234/No0032/ll.W.105.190POF

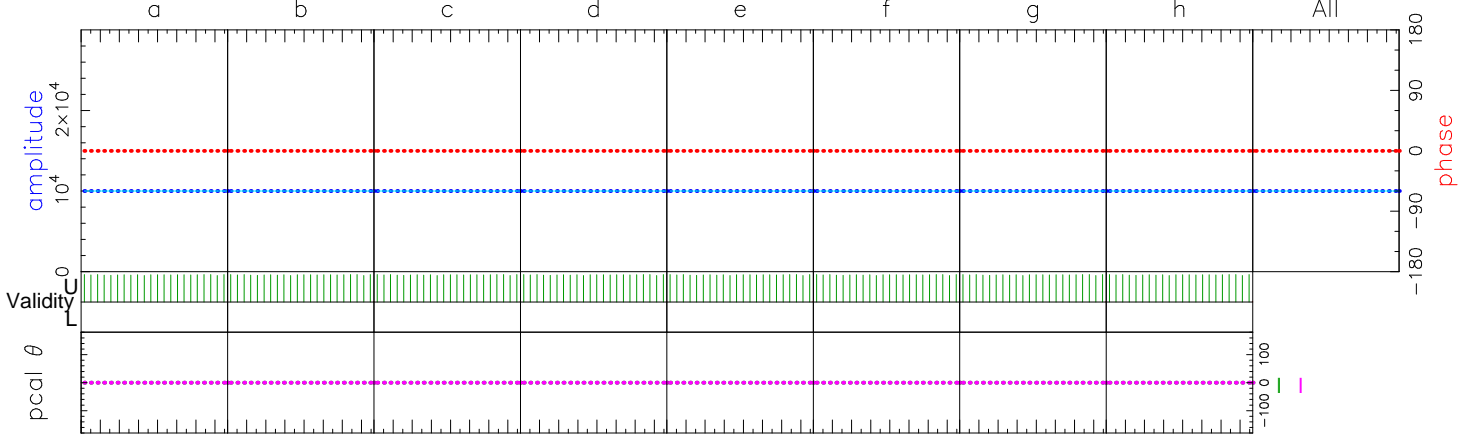


Fringe quality 9

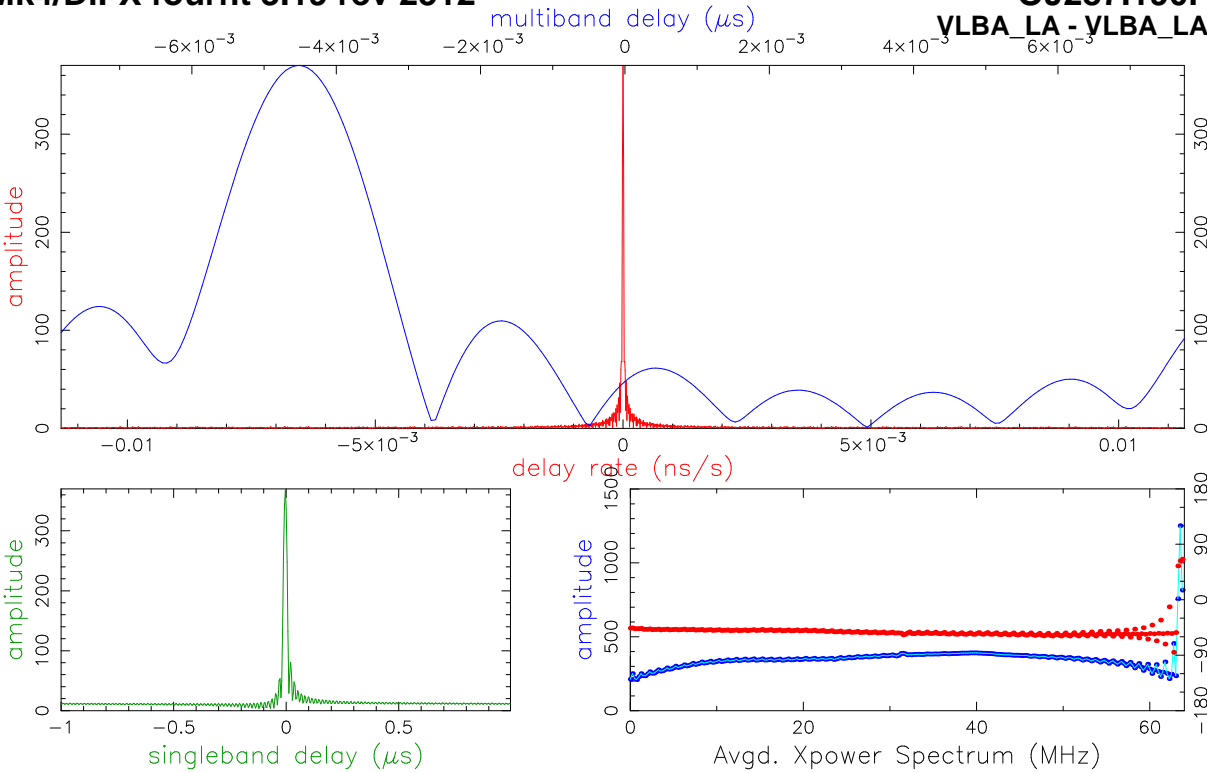
SNR 569584.0
Int time 433.831
Amp 9999.996
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Yr:day 16383
Start 2020:117
Stop 2020:117
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210545
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

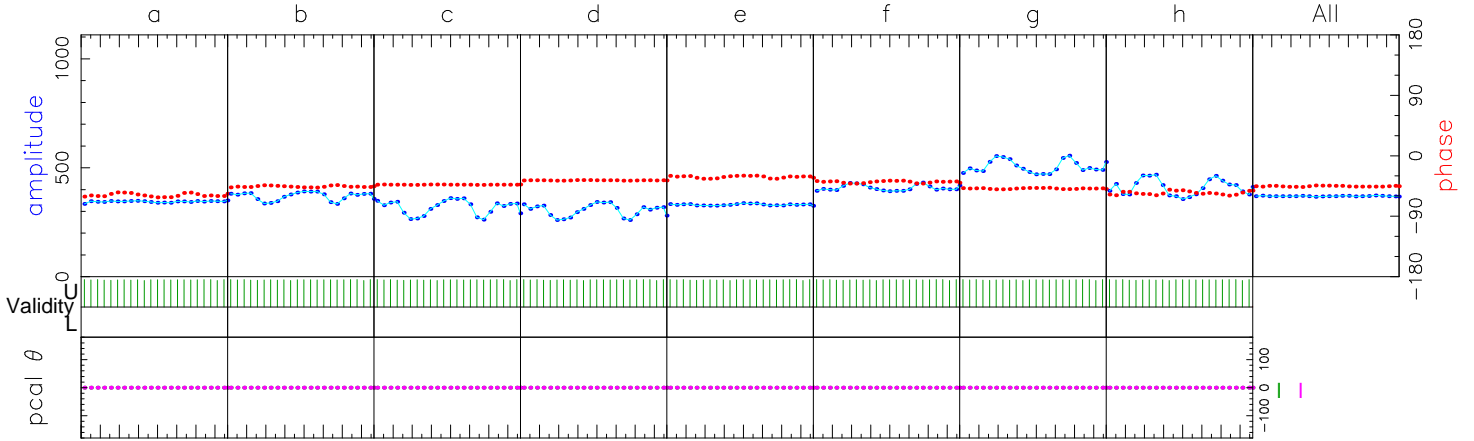


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 1.5E-08
Phase delay (usec)	2.20985402460E-20	2.20985402460E-20	2.20985402460E-20	2.20985402460E-20	2.20985402460E-20	2.20985402460E-20	2.20985402460E-20	2.20985402460E-20		+/- 6.5E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 2.6E-14
Total phase (deg)			0.0							+/- 0.0
	RMS	Theor.	Amplitude	9999.996 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (2048X32)	9999.996	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.996	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00



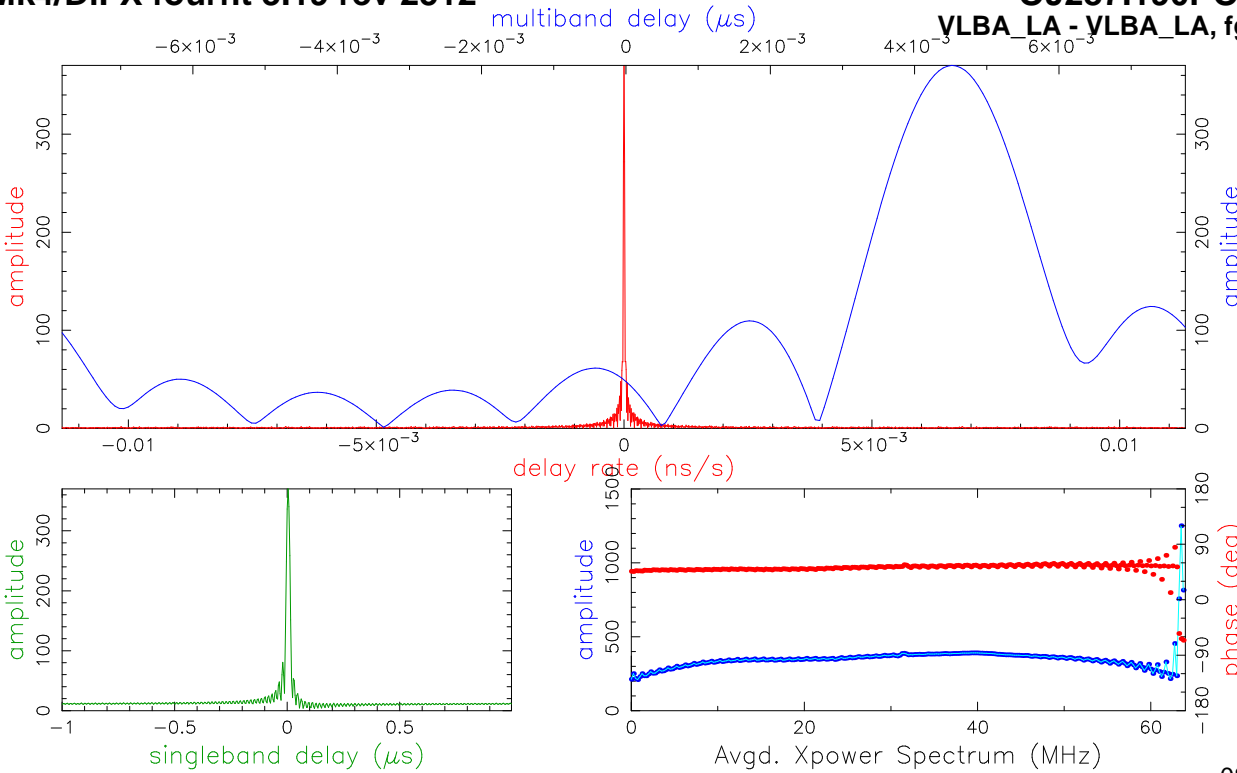
Fringe quality 9
SNR 21080.1
Int time 433.829
Amp 370.097
Phase -45.3
PFD 0.0e+00
Delays (us)
SBD -0.004003
MBD -0.004524
Fringe rate (Hz) 0.000005
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210549
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	374.2
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	256.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.52362500000E-03								Resid mbdelay (usec)	-4.52363E-03 +/- 5.1E-08
Sband delay (usec)	-4.00300000000E-03								Resid sbdelay (usec)	-4.00300E-03 +/- 4.1E-07
Phase delay (usec)	-1.46210724624E-06								Resid phdelay (usec)	-1.46211E-06 +/- 1.8E-10
Delay rate (us/s)	6.16445129038E-11								Resid rate (us/s)	6.16445E-11 +/- 6.9E-13
Total phase (deg)			-45.3						Resid phase (deg)	-45.3 +/- 0.0

RMS Theor. Amplitude 370.097 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.6 0.0 Search (2048X32) 367.465 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 10.1 0.0 Inc. seg. avg. 370.100 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 16.6 0.0 Inc. frq. avg. 374.160 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 I: az 82.1 el 24.3 pa -58.9 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/II..190POF Output file: /Exps/c201c/v1/1234/No0032/II.W.140.190POF

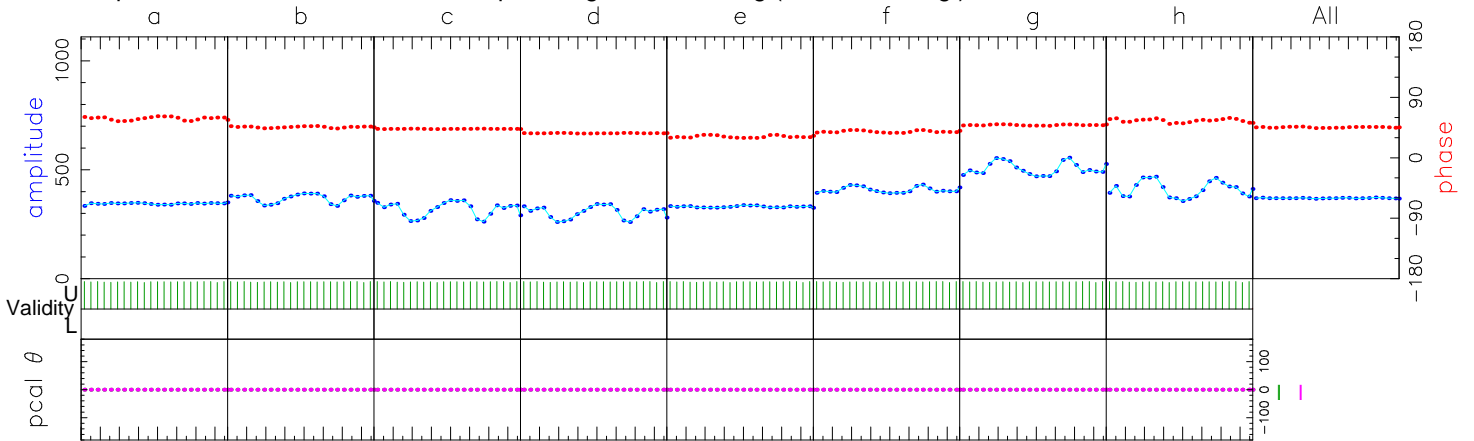


Fringe quality 9

SNR 21080.1
Int time 433.831
Amp 370.095
Phase 45.3
PFD 0.0e+00
Delays (us)
SBD 0.004003
MBD 0.004524
Fringe rate (Hz)
-0.000005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210554
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

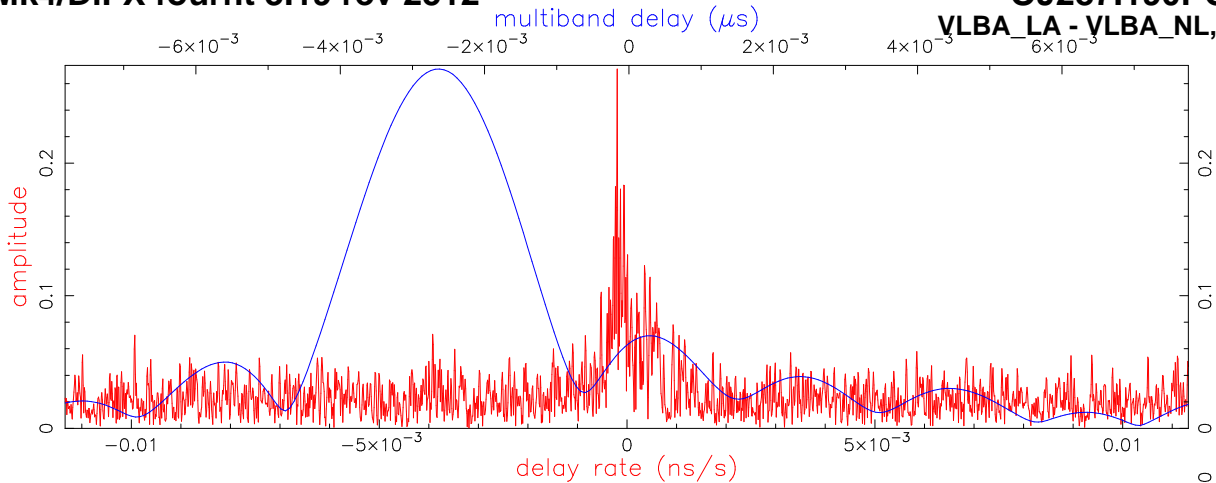
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	58.5	45.8	43.0	36.6	31.4	39.0	48.8	55.6	4.52363E-03	+/- 5.1E-08
Sband delay (usec)	344.4	370.1	319.5	305.9	330.8	407.4	504.7	410.6	4.00300E-03	+/- 4.1E-07
Phase delay (usec)	257.9	258.1	258.3	257.8	258.3	258.3	258.3	256.9	1.46211E-06	+/- 1.8E-10
Delay rate (us/s)									-6.16445E-11	+/- 6.9E-13
Total phase (deg)			45.3						45.3	+/- 0.0
RMS	0.6	0.0								
Theor.	0.0									
Amplitude	370.095 +/- 0.018									
Search (2048X32)	367.463									
Interp.	0.000									
Inc. seg. avg.	370.099									
Inc. frq. avg.	374.159									
Apriori delay (usec)	0.0000000000E+00									
Apriori clock (usec)	0.0000000E+00									
Apriori clockrate (us/s)	0.0000000E+00									
Apriori rate (us/s)	0.0000000000E+00									
Apriori accel (us/s/s)	0.0000000000E+00									
Resid mbdelay (usec)	4.52363E-03									
Resid sbdelay (usec)	4.00300E-03									
Resid phdelay (usec)	1.46211E-06									
Resid rate (us/s)	-6.16445E-11									
Resid phase (deg)	45.3									
PCal mode:	MANUAL, MANUAL									
PCal rate:	0.000E+00, 0.000E+00 (us/s)									
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000 1.000									
mb window (us)	-0.008 0.008									
dr window (ns/s)	-0.011 0.011									
ion window (TEC)	0.00 0.00									

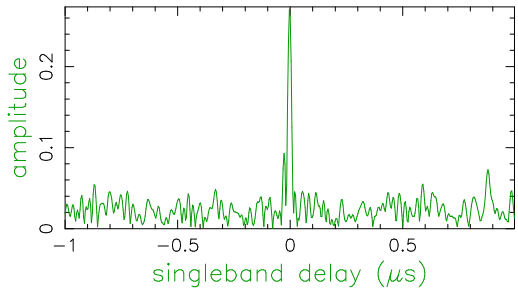
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, In VLBA_LA - VLBA_NL, fgroup W, pol RR

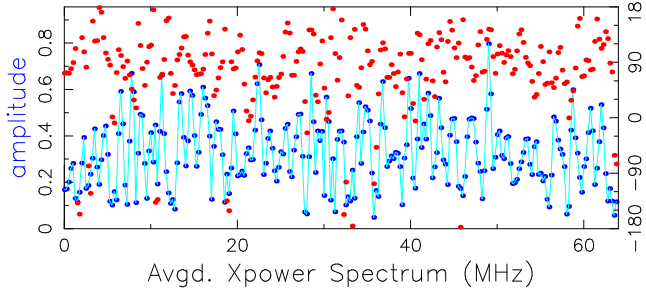


Fringe quality 9

SNR 15.6
 Int time 432.011
 Amp 0.274
 Phase 94.8
 PFD 1.4e-45
 Delays (us)
 SBD -0.002656
 MBD -0.002621
 Fringe rate (Hz)
 -0.016766
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

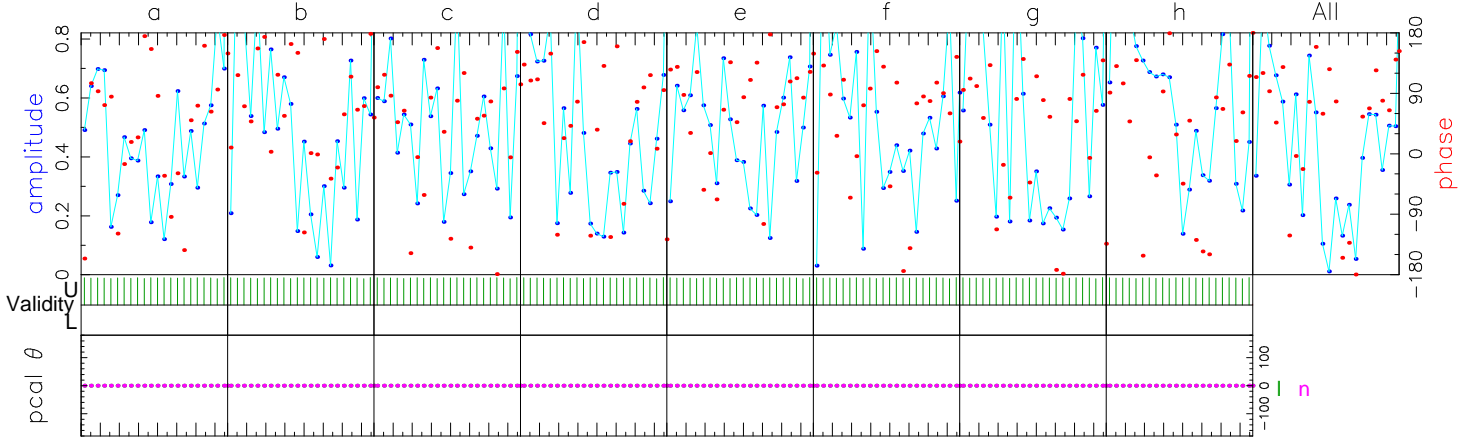


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210542
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

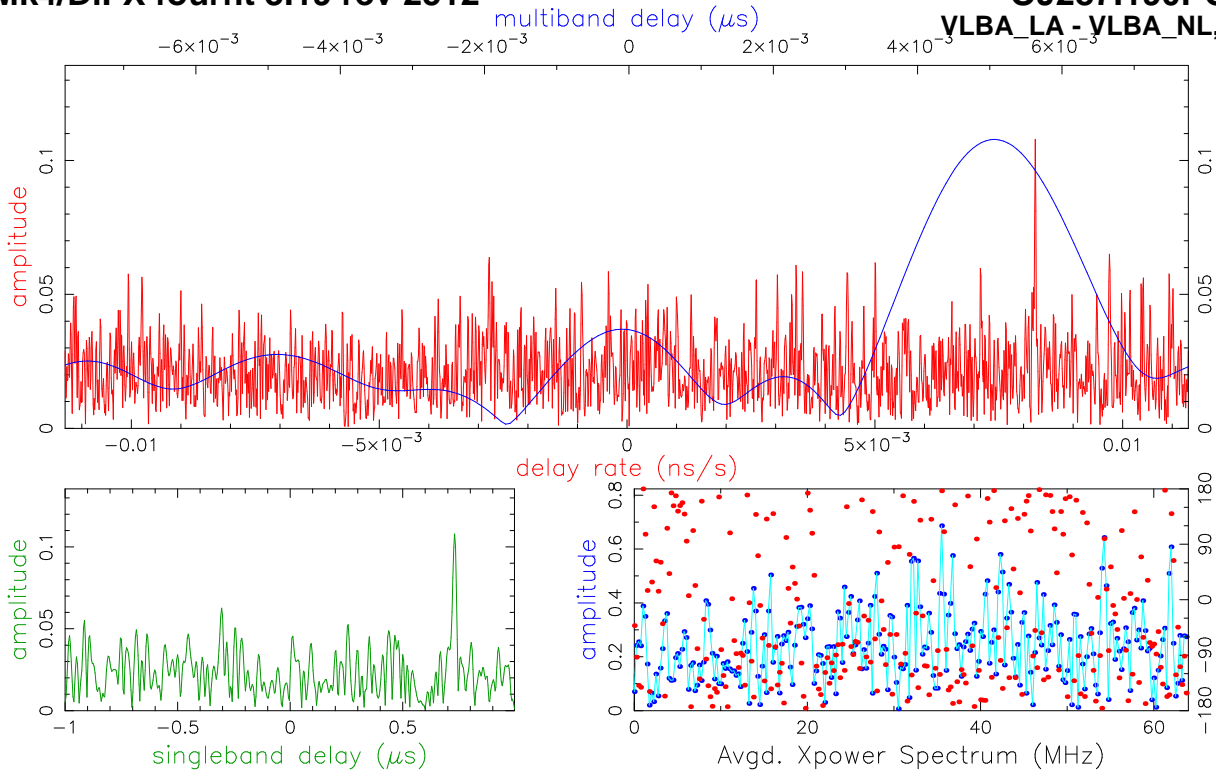


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	0:0	0:0	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.70658135765E+03	Apriori delay (usec)	-3.70657873670E+03	Resid mbdelay (usec)	-2.62095E-03	+/-	7.0E-05
Sband delay (usec)	-3.70658139220E+03	Apriori clock (usec)	-3.6015717E+01	Resid sbdelay (usec)	-2.65550E-03	+/-	5.5E-04
Phase delay (usec)	-3.70657873364E+03	Apriori clockrate (us/s)	-4.8500001E-07	Resid phdelay (usec)	3.05797E-06	+/-	2.4E-07
Delay rate (us/s)	2.06872564374E-01	Apriori rate (us/s)	2.06872759014E-01	Resid rate (us/s)	-1.94639E-07	+/-	9.4E-10
Total phase (deg)	-41.7	Apriori accel (us/s/s)	1.63723059574E-05	Resid phase (deg)	94.8	+/-	7.4

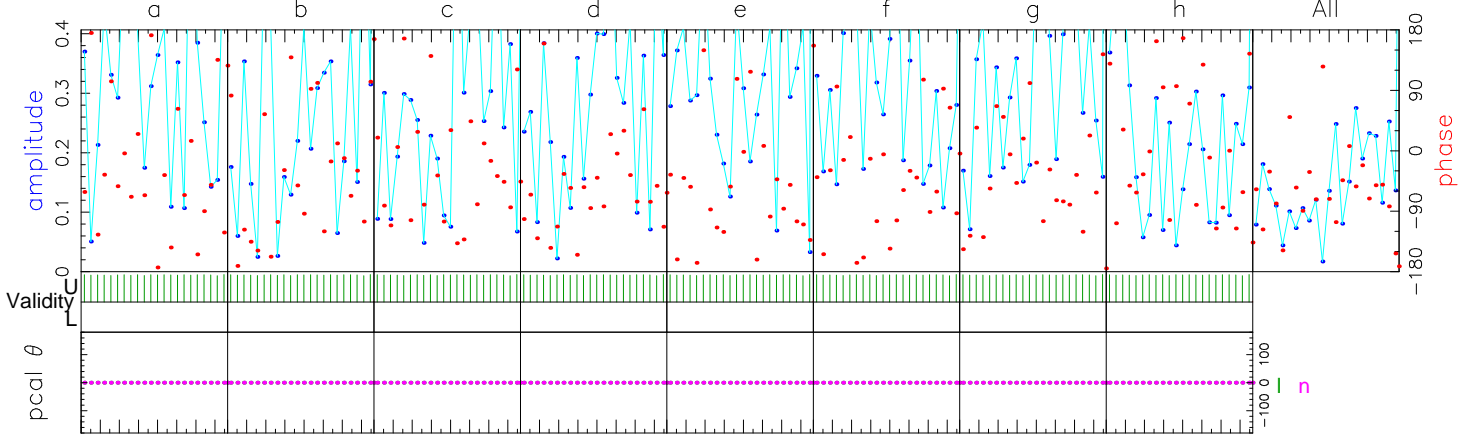
ph/seg (deg)	67.0	Theor.	17.7	Amplitude	0.274 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	106.0	Search (2048X32)	0.247	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	5.7	Inc. seg. avg.	0.408	Inc. frq. avg.	0.268	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	18.5	Inc. frq. avg.	0.268			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

l: az 82.1 el 24.3 pa -58.9 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) -1232.734 -201.818 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/In...190POF Output file: /Exps/c201c/v1/1234/No0032/In.W.113.190POF



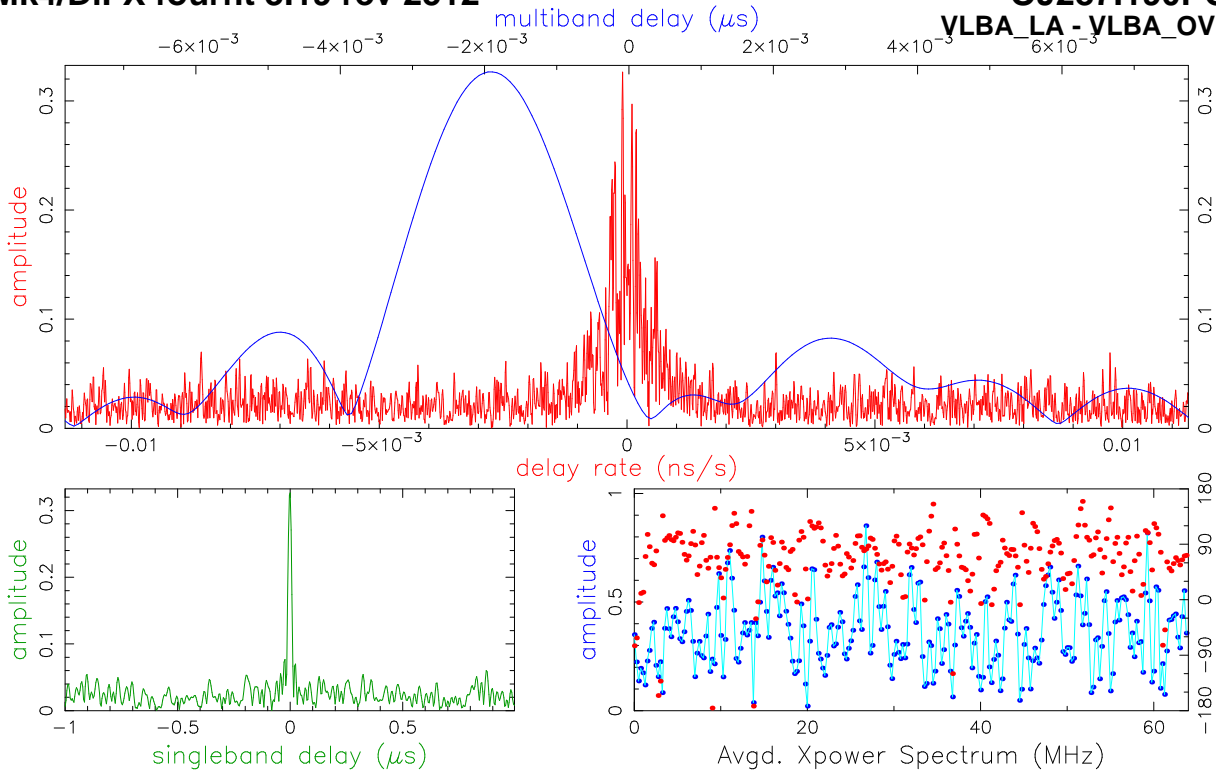
Fringe quality 0
 SNR 6.1
 Int time 432.009
 Amp 0.135
 Phase -65.5
 PFD 2.1e-01
 Delays (us)
 SBD 0.730620
 MBD 0.005067
 Fringe rate (Hz) 0.710439
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210548
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.70585492008E+03	-3.70584811670E+03	-3.70657873881E+03	-3.70657873670E+03	-3.70657873670E+03	-3.70657873670E+03	-3.70657873670E+03	-3.70657873670E+03	5.06662E-03	+/- 1.8E-04
Sband delay (usec)	-3.70584811670E+03	-3.70584811670E+03	-3.70657873881E+03	-3.70657873670E+03	-3.70657873670E+03	-3.70657873670E+03	-3.70657873670E+03	-3.70657873670E+03	7.30620E-01	+/- 1.4E-03
Phase delay (usec)	-3.70657873881E+03	-3.70657873881E+03	-3.70657873881E+03	-3.70657873881E+03	-3.70657873881E+03	-3.70657873881E+03	-3.70657873881E+03	-3.70657873881E+03	-2.11262E-06	+/- 6.0E-07
Delay rate (us/s)	2.06881006512E-01	2.06881006512E-01	2.06881006512E-01	2.06881006512E-01	2.06881006512E-01	2.06881006512E-01	2.06881006512E-01	2.06881006512E-01	8.24750E-06	+/- 2.4E-09
Total phase (deg)			-202.1						-65.5	+/- 18.7
Apriori delay (usec)				0.135 +/- 0.022						
Apriori clock (usec)				0.105						
Apriori clockrate (us/s)				0.000						
Apriori rate (us/s)				0.137						
Apriori accel (us/s/s)				0.129						
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 57.6 44.8 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.3 78.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.7 26.4 Inc. seg. avg. 0.137 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.9 46.1 Inc. frq. avg. 0.129 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 82.1 el 24.3 pa -58.9 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) -1232.734 -201.818 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/In..190POF Output file: /Exps/c201c/v1/1234/No0032/In.W.134.190POF

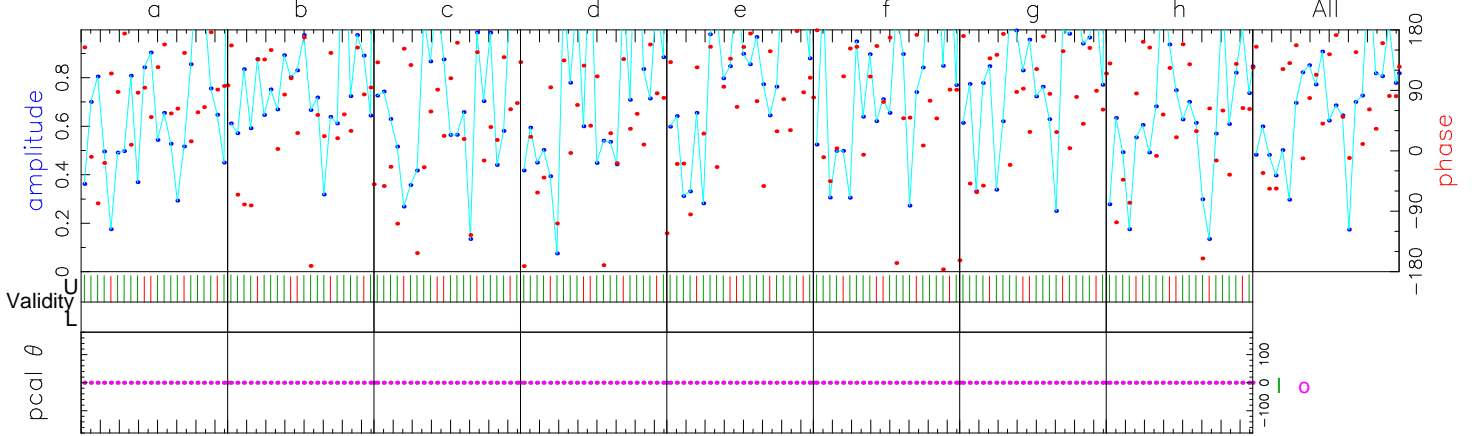


Fringe quality 9

SNR 18.7
Int time 422.162
Amp 0.333
Phase 80.9
PFD 0.0e+00
Delays (us)
SBD -0.001731
MBD -0.001959
Fringe rate (Hz)
-0.007281
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

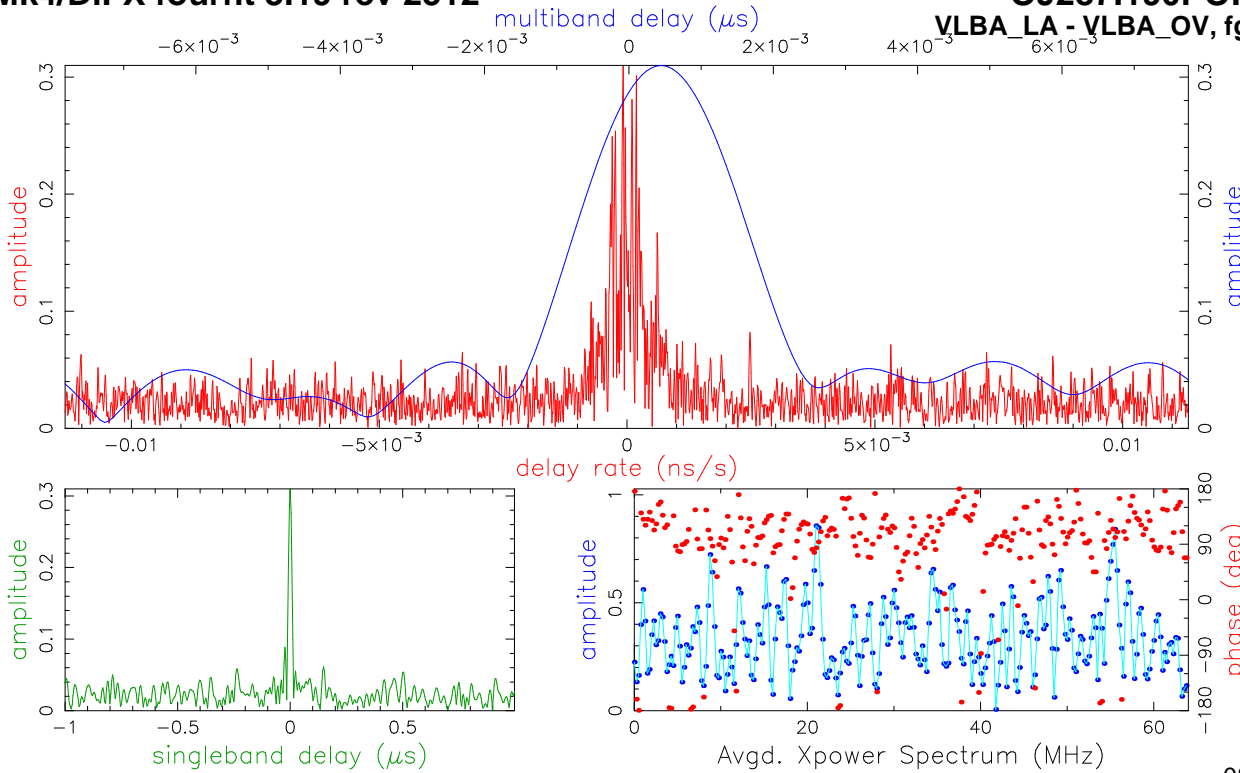
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210546
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
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)		3.19468617016E+03				3.19468812931E+03			Resid mbdelay (usec)	-1.95915E-03	+/- 5.8E-05
Sband delay (usec)		3.19468639881E+03				-2.3811388E+01			Resid sbdelay (usec)	-1.73050E-03	+/- 4.6E-04
Phase delay (usec)		3.19468813191E+03				-3.5200000E-07			Resid phdelay (usec)	2.60734E-06	+/- 2.0E-07
Delay rate (us/s)		-2.62845389487E-02				-2.62844544291E-02			Resid rate (us/s)	-8.45196E-08	+/- 7.8E-10
Total phase (deg)			245.9			-1.78996621865E-05			Resid phase (deg)	80.9	+/- 6.1

ph/seg (deg) 73.1 14.7 Search (2048X32) 0.319 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 127.7 25.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.3 8.7 Inc. seg. avg. 0.663 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.7 15.1 Inc. frq. avg. 0.330 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 82.1 el 24.3 pa -58.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 130.729 -683.009 simultaneous interpolator

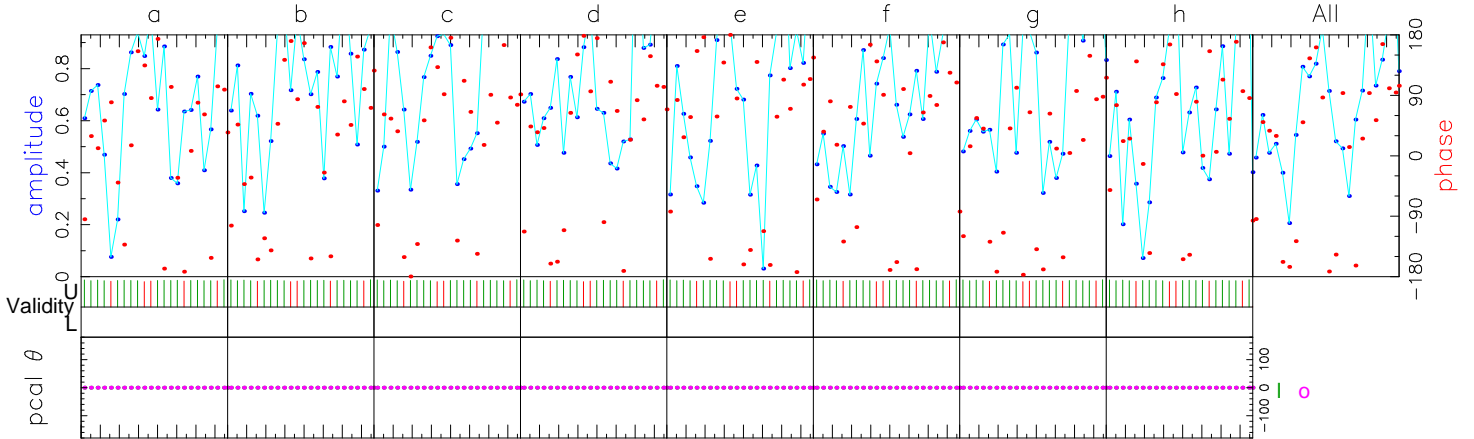


Fringe quality 9

SNR 17.4
Int time 422.164
Amp 0.310
Phase 107.0
PFD 0.0e+00
Delays (us)
SBD -0.000244
MBD 0.000439
Fringe rate (Hz)
-0.006671
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210551
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

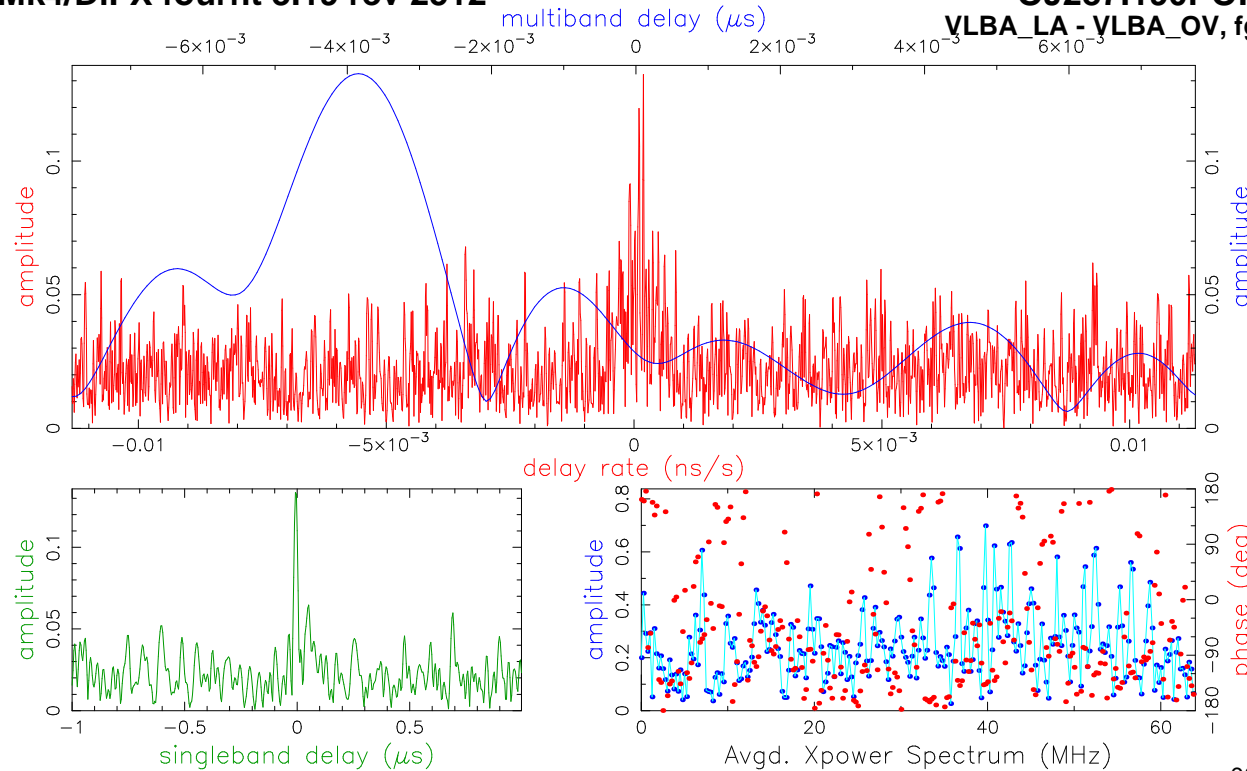


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.19468856809E+03				3.19468812931E+03			Resid mbdelay (usec)	4.38783E-04 +/- 6.2E-05
Sband delay (usec)		3.19468788556E+03				-2.3811388E+01			Resid sbdelay (usec)	-2.43750E-04 +/- 4.9E-04
Phase delay (usec)		3.19468813276E+03				-3.5200000E-07			Resid phdelay (usec)	3.44938E-06 +/- 2.1E-07
Delay rate (us/s)		-2.62845318751E-02				-2.62844544291E-02			Resid rate (us/s)	-7.74461E-08 +/- 8.4E-10
Total phase (deg)			272.0			-1.78996621865E-05			Resid phase (deg)	107.0 +/- 6.6

ph/seg (deg) 76.5 15.8 Search (2048X32) 0.308 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 139.8 27.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.7 9.3 Inc. seg. avg. 0.645 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.7 16.2 Inc. frq. avg. 0.311 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 82.1 el 24.3 pa -58.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 130.729 -683.009 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/lo..190POF Output file: /Exps/c201c/v1/1234/No0032/lo.W.146.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, lo
VLBA_LA - VLBA_OV, fgroup W, pol LR

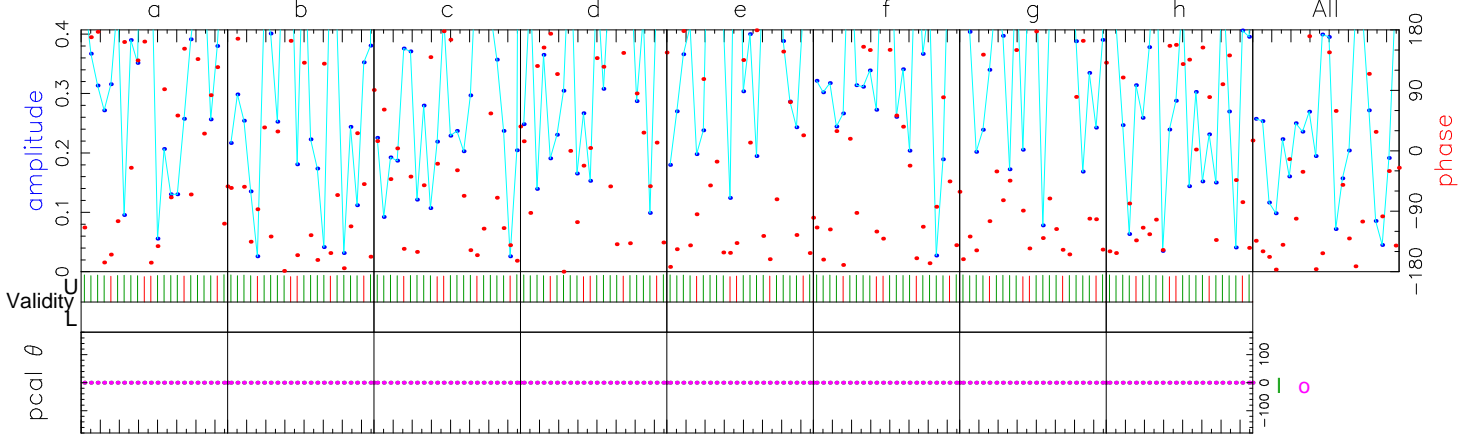


Fringe quality 9

SNR 7.6
Int time 422.162
Amp 0.136
Phase -144.3
PFD 7.9e-06
Delays (us)
SBD -0.006047
MBD -0.003914
Fringe rate (Hz) 0.016012
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210554
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		3.19468421538E+03			3.19468812931E+03						
Sband delay (usec)		3.19468208256E+03			-2.3811388E+01						
Phase delay (usec)		3.19468812465E+03			-3.5200000E-07						
Delay rate (us/s)		-2.62842685475E-02			-2.62844544291E-02						
Total phase (deg)			20.8		-1.78996621865E-05						
				Apriori delay (usec)					Resid mbdelay (usec)	-3.91392E-03	+/- 1.4E-04
				Apriori clock (usec)	0.130				Resid sbdelay (usec)	-6.04675E-03	+/- 1.1E-03
				Apriori clockrate (us/s)					Resid phdelay (usec)	-4.65222E-06	+/- 4.8E-07
				Apriori rate (us/s)					Resid rate (us/s)	1.85882E-07	+/- 1.9E-09
				Apriori accel (us/s/s)					Resid phase (deg)	-144.3	+/- 15.0

ph/seg (deg) 77.6 36.0
amp/seg (%) 117.3 62.9
ph/frq (deg) 26.4 21.3
amp/frq (%) 41.9 37.1

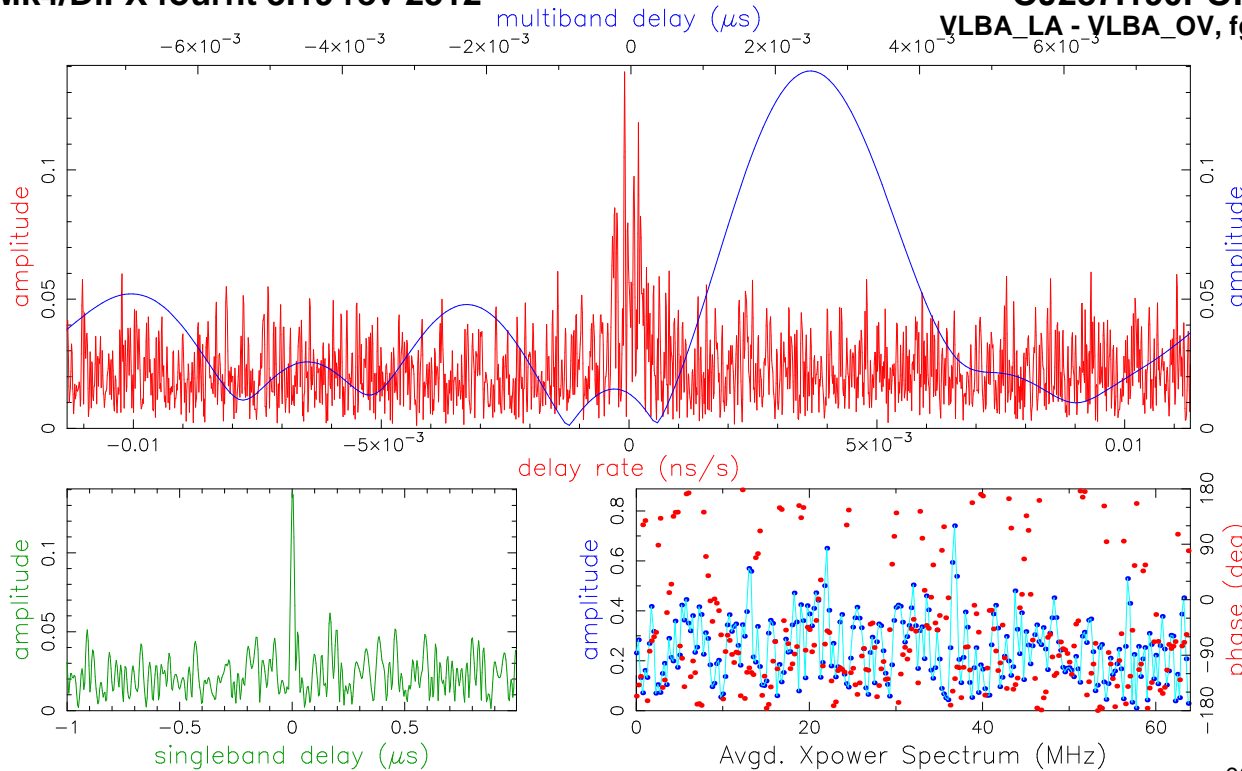
RMS Theor. Amplitude 0.136 +/- 0.018
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

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

l: az 82.1 el 24.3 pa -58.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 130.729 -683.009 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/lo..190POF Output file: /Exps/c201c/v1/1234/No0032/lo.W.158.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, lo
VLBA_LA - VLBA_OV, fgroup W, pol RL

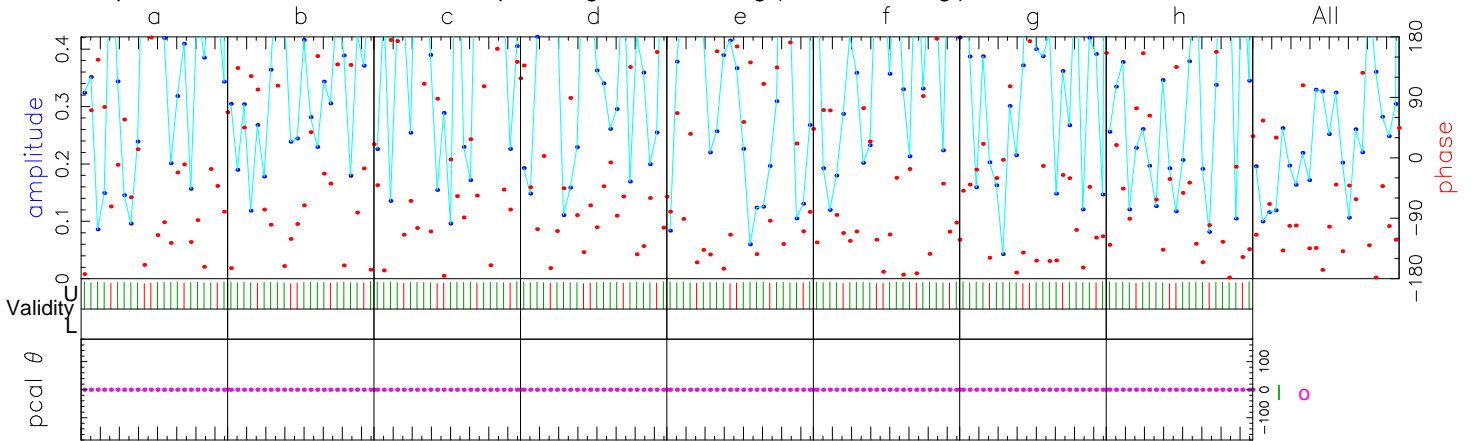


Fringe quality 9

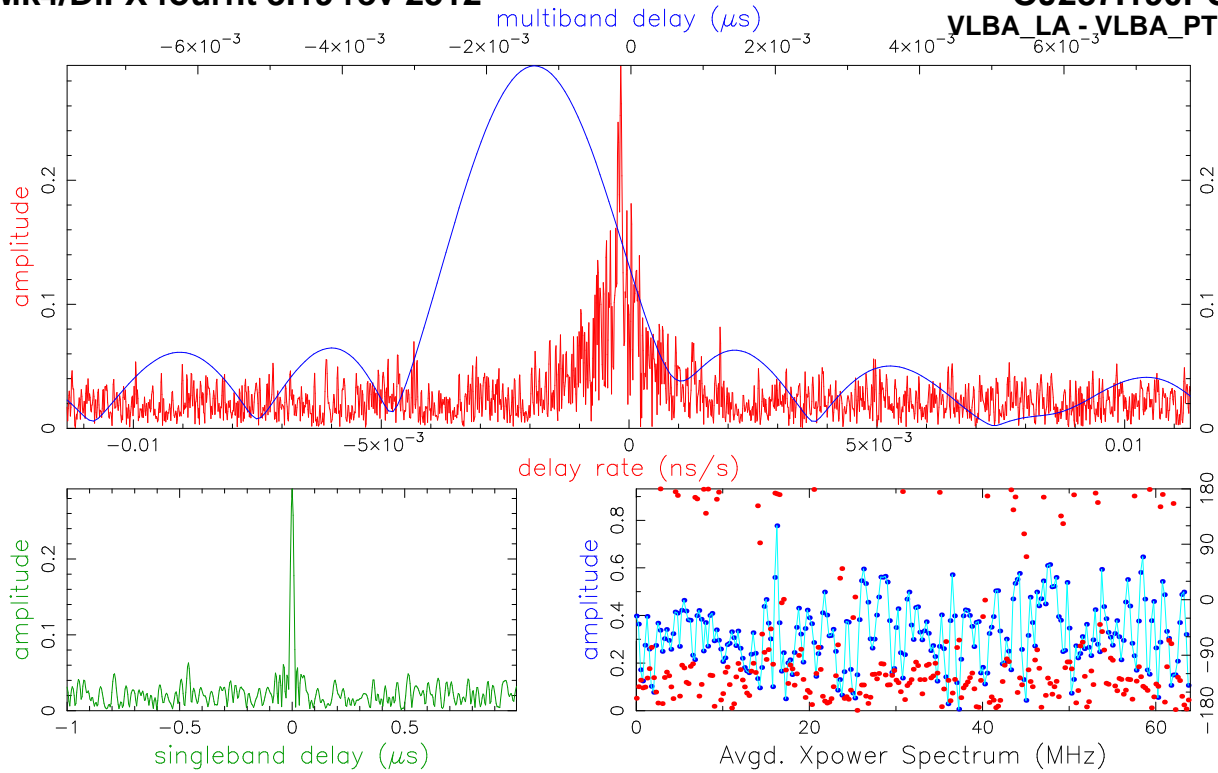
SNR 7.9
Int time 422.164
Amp 0.140
Phase -117.9
PFD 1.0e-06
Delays (us)
SBD 0.001729
MBD 0.002571
Fringe rate (Hz) -0.007585
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210600
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

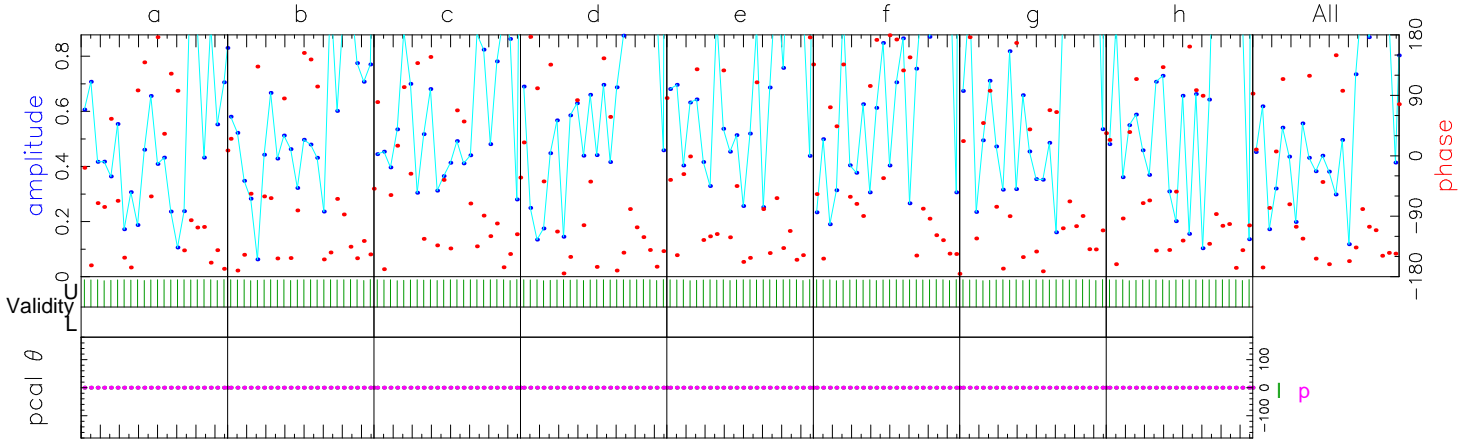


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		3.19469069997E+03				3.19468812931E+03			Resid mbdelay (usec)	2.57066E-03 +/- 1.4E-04
Sband delay (usec)		3.19468985806E+03				-2.3811388E+01			Resid sbdelay (usec)	1.72875E-03 +/- 1.1E-03
Phase delay (usec)		3.19468812550E+03				-3.5200000E-07			Resid phdelay (usec)	-3.80204E-06 +/- 4.7E-07
Delay rate (us/s)		-2.62845424837E-02				-2.62844544291E-02			Resid rate (us/s)	-8.80546E-08 +/- 1.8E-09
Total phase (deg)			47.1			-1.78996621865E-05			Resid phase (deg)	-117.9 +/- 14.5
RMS	72.5	34.8			0.140 +/- 0.018				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	72.5	34.8			0.137				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	101.2	60.8			0.000				Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	26.4	20.5			0.203				Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
amp/frq (%)	30.8	35.8			0.139				Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
									nlags: 256	t_cohere infinite
										ion window (TEC) 0.00 0.00



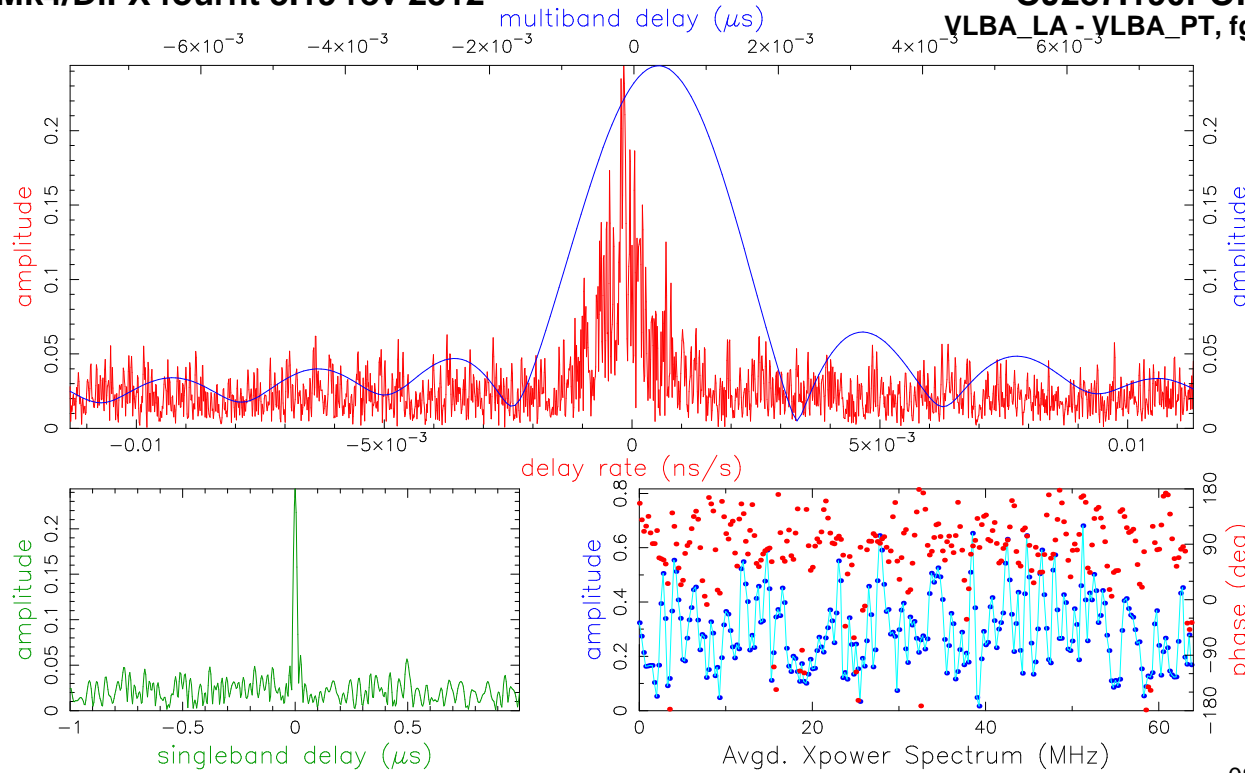
Fringe quality 9
SNR 16.7
Int time 433.031
Amp 0.293
Phase -129.8
PFD 0.0e+00
Delays (us)
SBD -0.000391
MBD -0.001347
Fringe rate (Hz)
-0.013958
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210547
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-121.6	-133.0	-130.2	-138.4	-128.2	-136.6	-122.0	-127.8	Phase	-129.8
	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3
	256.8	256.7	257.0	256.8	257.2	257.4	256.3	257.1	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.63205747604E+02		Apriori delay (usec)		5.63207094127E+02		Resid mbdelay (usec)		-1.34652E-03	+/- 6.5E-05
Sband delay (usec)	5.63206703627E+02		Apriori clock (usec)		-2.1002937E+01		Resid sbdelay (usec)		-3.90500E-04	+/- 5.2E-04
Phase delay (usec)	5.63207089940E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		-4.18704E-06	+/- 2.2E-07
Delay rate (us/s)	-3.16385172160E-02		Apriori rate (us/s)		-3.16383551802E-02		Resid rate (us/s)		-1.62036E-07	+/- 8.7E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.29403744075E-06		Resid phase (deg)		-129.8	+/- 6.9

ph/seg (deg) 71.0 16.5 Search (2048X32) 0.280 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 124.4 28.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.7 9.7 Inc. seg. avg. 0.516 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.5 17.0 Inc. frq. avg. 0.290 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 ion window (TEC) 0.00 0.00
 simultaneous interpolator

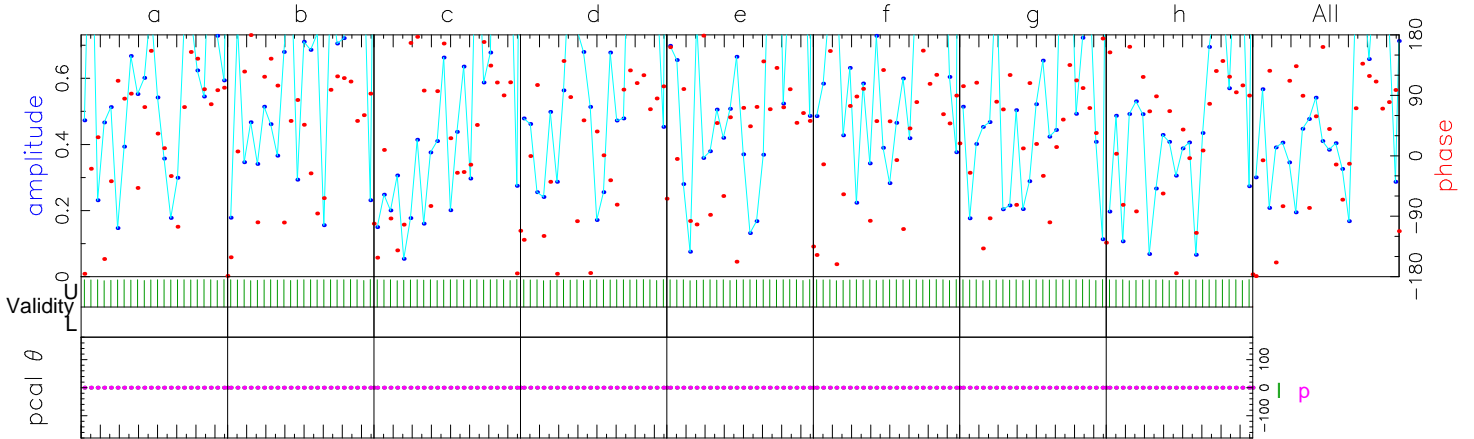


Fringe quality 9

SNR 13.9
Int time 433.033
Amp 0.244
Phase 90.1
PFD 5.2e-35
Delays (us)
SBD -0.000392
MBD 0.000322
Fringe rate (Hz) -0.014262
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210551
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	0:0
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.63207416447E+02		Apriori delay (usec)		5.63207094127E+02		Resid mbdelay (usec)		3.22320E-04	+/- 7.8E-05
Sband delay (usec)	5.63206701877E+02		Apriori clock (usec)		-2.1002937E+01		Resid sbdelay (usec)		-3.92250E-04	+/- 6.2E-04
Phase delay (usec)	5.63207097033E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		2.90569E-06	+/- 2.7E-07
Delay rate (us/s)	-3.16385207495E-02		Apriori rate (us/s)		-3.16383551802E-02		Resid rate (us/s)		-1.65569E-07	+/- 1.0E-09
Total phase (deg)	121.8		Apriori accel (us/s/s)		-2.29403744075E-06		Resid phase (deg)		90.1	+/- 8.3

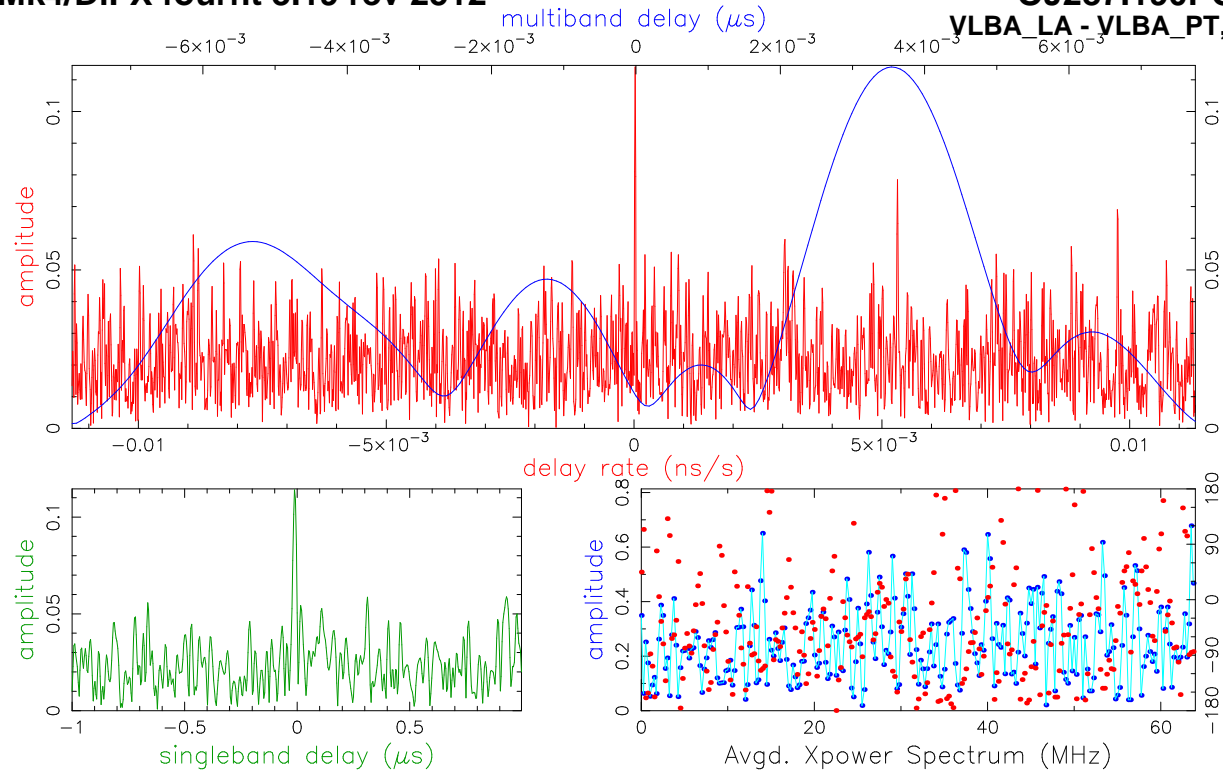
ph/seg (deg) 81.8 19.8
amp/seg (%) 148.8 34.6
ph/frq (deg) 11.4 11.7
amp/frq (%) 11.6 20.4

RMS Theor. Amplitude 0.244 +/- 0.018
Search (2048X32) 0.239
Interp. 0.000
Inc. seg. avg. 0.476
Inc. frq. avg. 0.242

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

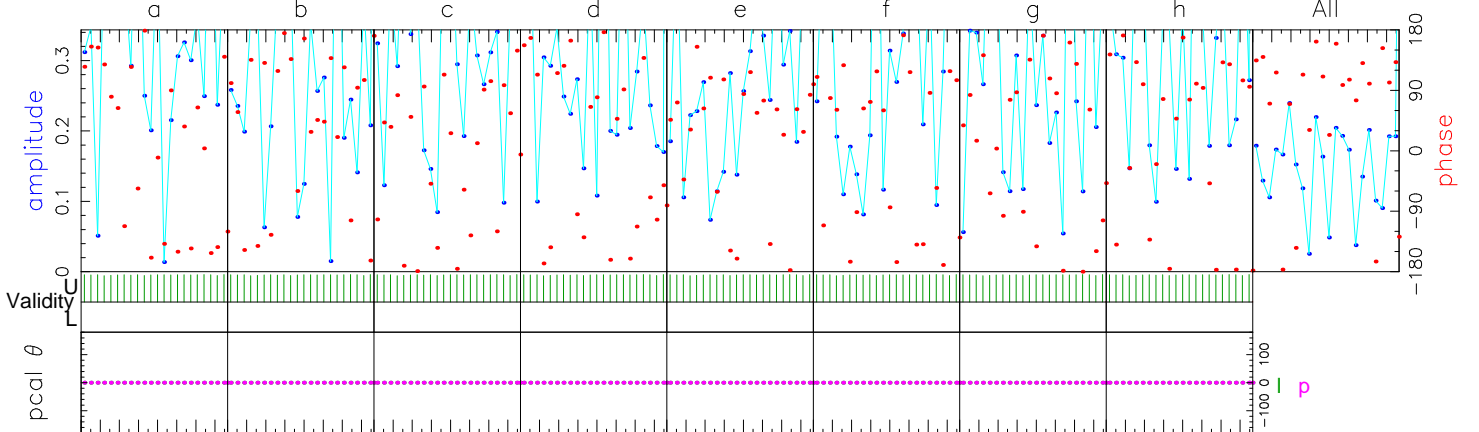
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 simultaneous interpolator



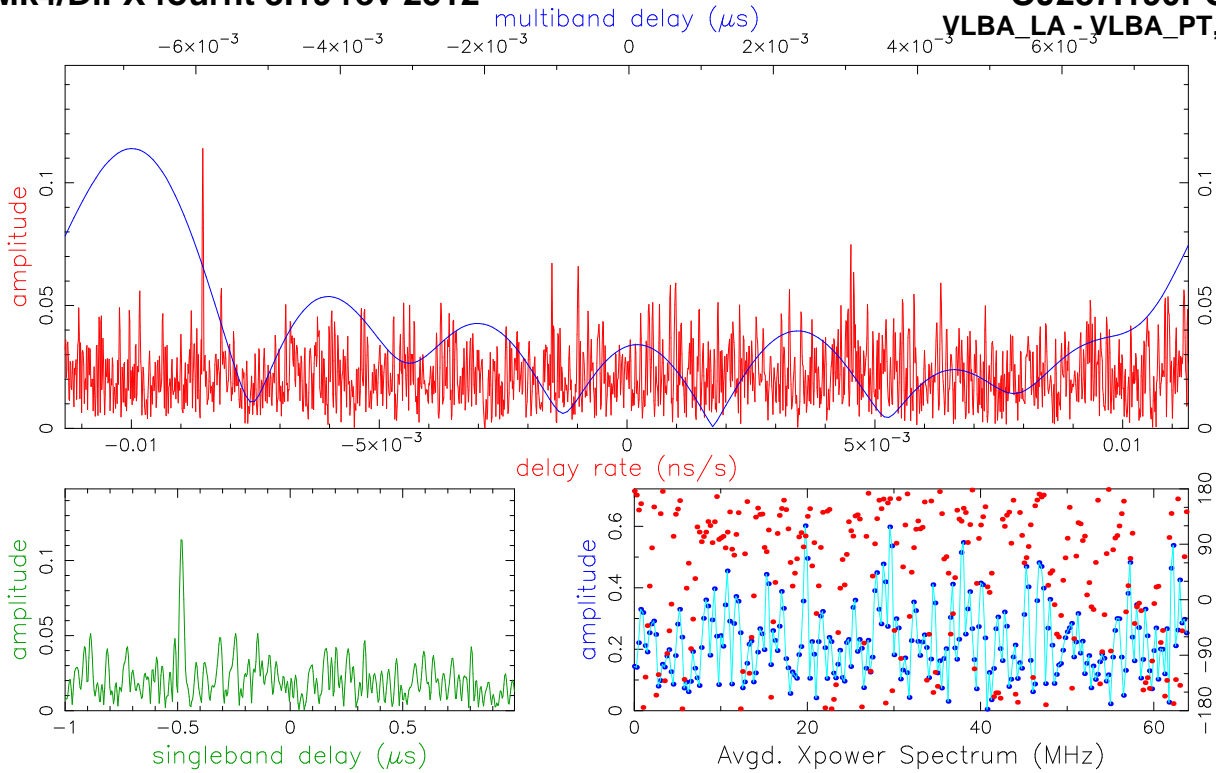
Fringe quality 0
SNR 6.5
Int time 433.031
Amp 0.115
Phase 125.2
PFD 2.0e-02
Delays (us)
SBD -0.010800
MBD 0.003558
Fringe rate (Hz) 0.002321
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210555
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



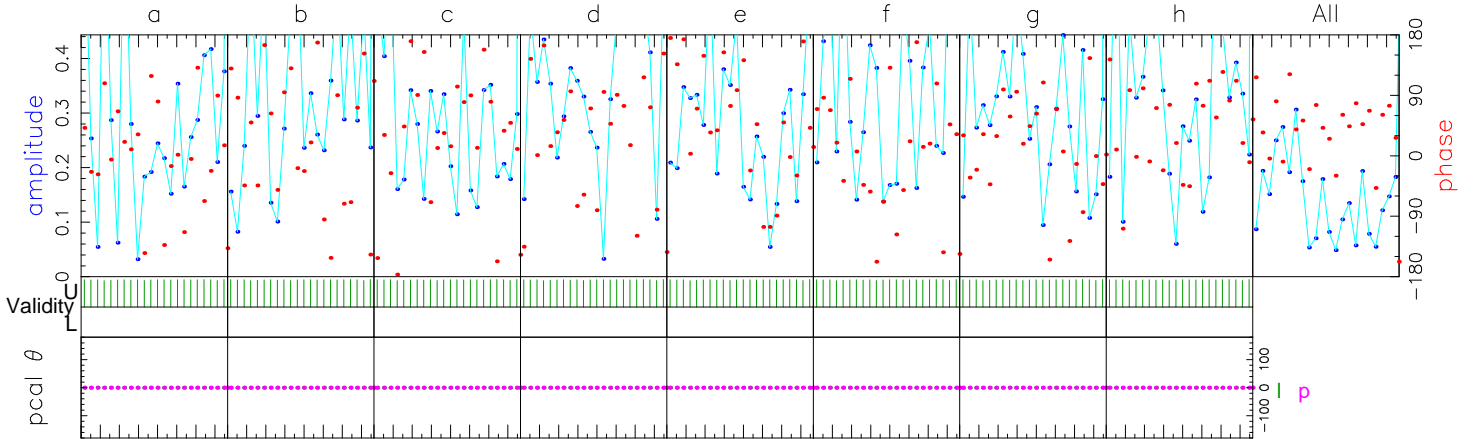
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		5.63195027399E+02			5.63207094127E+02				3.55827E-03	+/- 1.7E-04
Sband delay (usec)		5.63196294627E+02			-2.1002937E+01				-1.07995E-02	+/- 1.3E-03
Phase delay (usec)		5.63207098165E+02			-3.5499999E-07				4.03768E-06	+/- 5.7E-07
Delay rate (us/s)		-3.16383282330E-02			-3.16383551802E-02				2.69472E-08	+/- 2.2E-09
Total phase (deg)			156.9						125.2	+/- 17.6
pcal mode:					MANUAL				MANUAL	
PCal rate:					0.000E+00				0.000E+00	(us/s)
Bits/sample:					2x2				SampCntNorm: enabled	
Sample rate (MSamp/s):					128					
Data rate (Mb/s):					2048					
PC period (AP's)					5					
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 48.2 42.1 Search (2048X32) 0.105 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 60.8 73.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 27.9 24.9 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 42.4 43.4 Inc. frq. avg. 0.116 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 Data rate (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/lp..190POF Output file: /Exps/c201c/v1/1234/No0032/lp.W.159.190POF



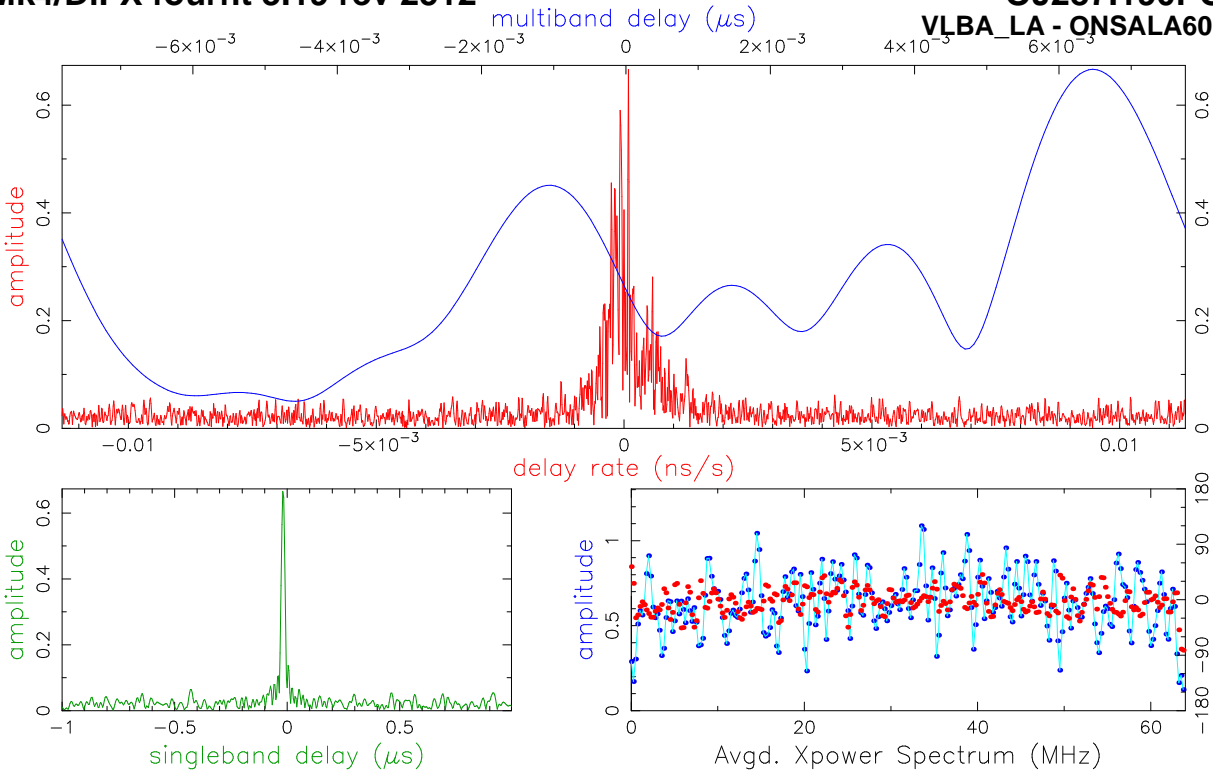
Fringe quality 0
SNR 6.6
Int time 433.033
Amp 0.148
Phase 45.6
PFD 1.4e-02
Delays (us)
SBD -0.482596
MBD -0.006859
Fringe rate (Hz)
-0.738082
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210559
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



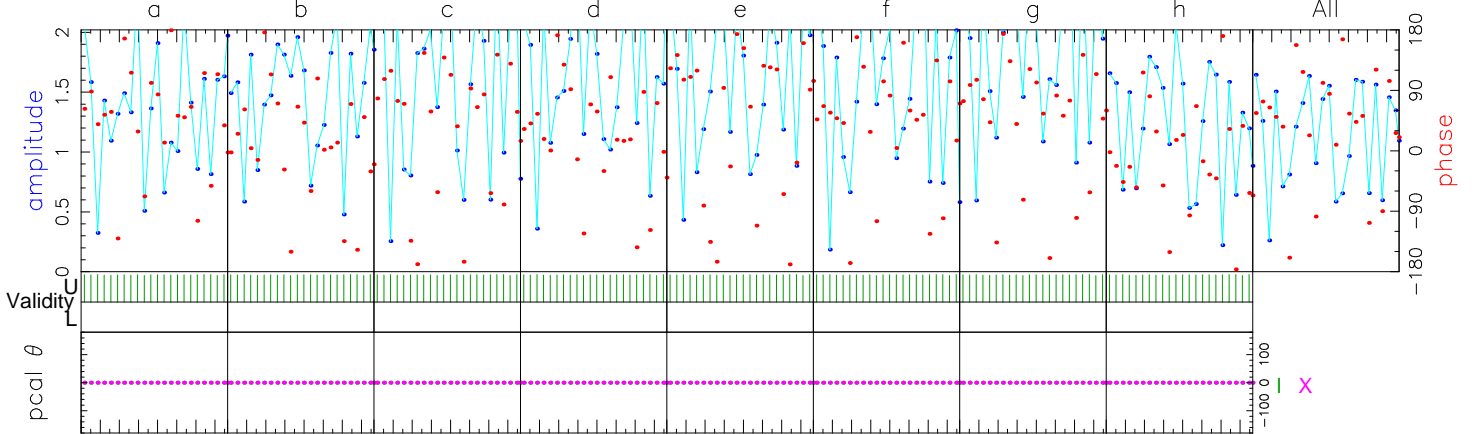
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	5.62731485552E+02		Apriori delay (usec)		5.63207094127E+02		Resid mbdelay (usec)		-6.85857E-03	+/- 1.7E-04
Sband delay (usec)	5.62724498627E+02		Apriori clock (usec)		-2.1002937E+01		Resid sbdelay (usec)		-4.82596E-01	+/- 1.3E-03
Phase delay (usec)	5.63207095597E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		1.46988E-06	+/- 5.6E-07
Delay rate (us/s)	-3.16469235811E-02		Apriori rate (us/s)		-3.16383551802E-02		Resid rate (us/s)		-8.56840E-06	+/- 2.2E-09
Total phase (deg)	77.3		Apriori accel (us/s/s)		-2.29403744075E-06		Resid phase (deg)		45.6	+/- 17.4

ph/seg (deg) 43.4 41.8 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.0 73.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 24.7 Inc. seg. avg. 0.144 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.9 43.1 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
 l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 ion window (TEC) 0.00 0.00
 simultaneous interpolator



Fringe quality 4
 SNR 38.4
 Int time 433.779
 Amp 0.674
 Phase 73.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.018177
 MBD 0.006504
 Fringe rate (Hz) 0.007170
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210551
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

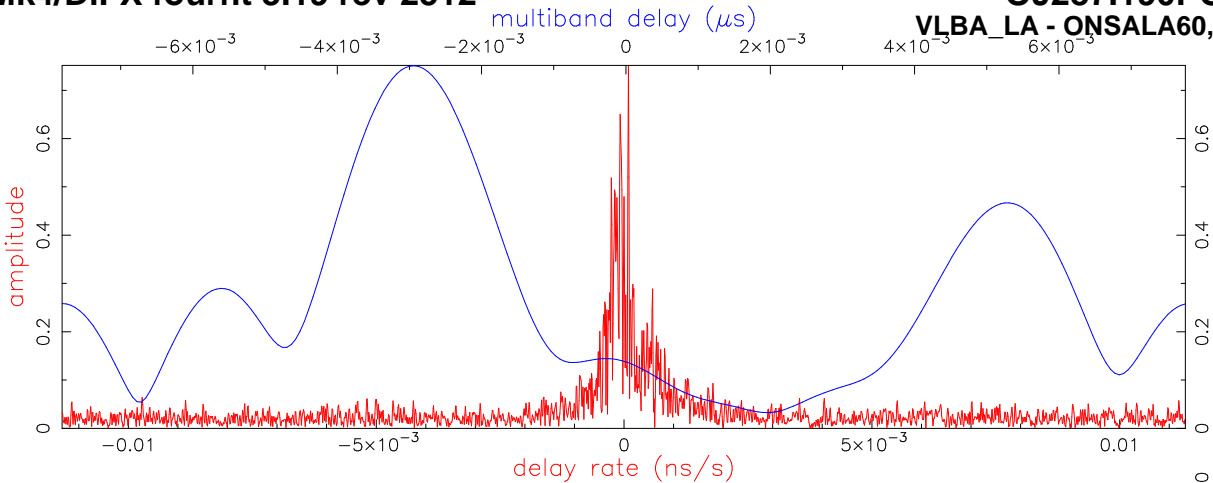
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.68566711020E+03								6.50406E-03	+/- 2.8E-05
Sband delay (usec)	-4.68566054151E+03								-1.81773E-02	+/- 2.2E-04
Phase delay (usec)	-4.68564236189E+03								2.36404E-06	+/- 9.6E-08
Delay rate (us/s)	1.69170930964E+00								8.32399E-08	+/- 3.8E-10
Total phase (deg)			-19.3						73.3	+/- 3.0
Apriori delay (usec)					-4.68564236426E+03					
Apriori clock (usec)					-4.4503204E-01					
Apriori clockrate (us/s)					-6.7900004E-07					
Apriori rate (us/s)					1.69170922640E+00					
Apriori accel (us/s/s)					1.47105931689E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

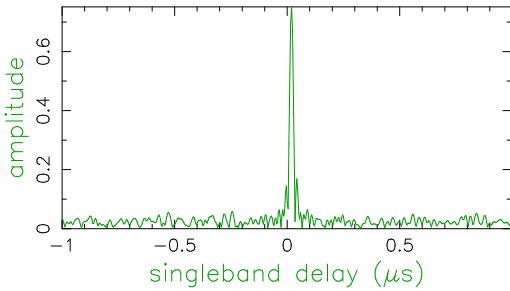
	RMS	Theor.	Amplitude	0.674 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	79.4	7.2	Search (2048X32)	0.610	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	95.0	12.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	50.2	4.2	Inc. seg. avg.	1.144	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	35.1	7.4	Inc. frq. avg.	0.876	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.149.190POF

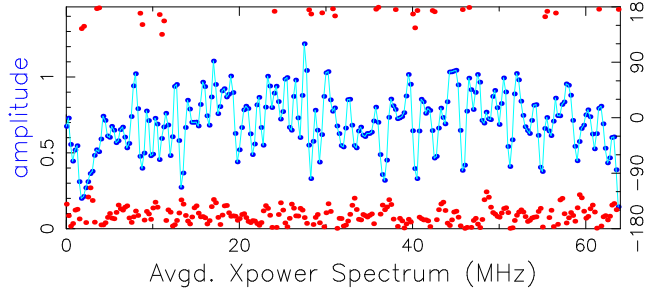


Fringe quality 4

SNR 42.8
Int time 433.780
Amp 0.752
Phase 92.6
PFD 0.0e+00
Delays (us)
SBD 0.019102
MBD -0.002961
Fringe rate (Hz)
0.007181
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

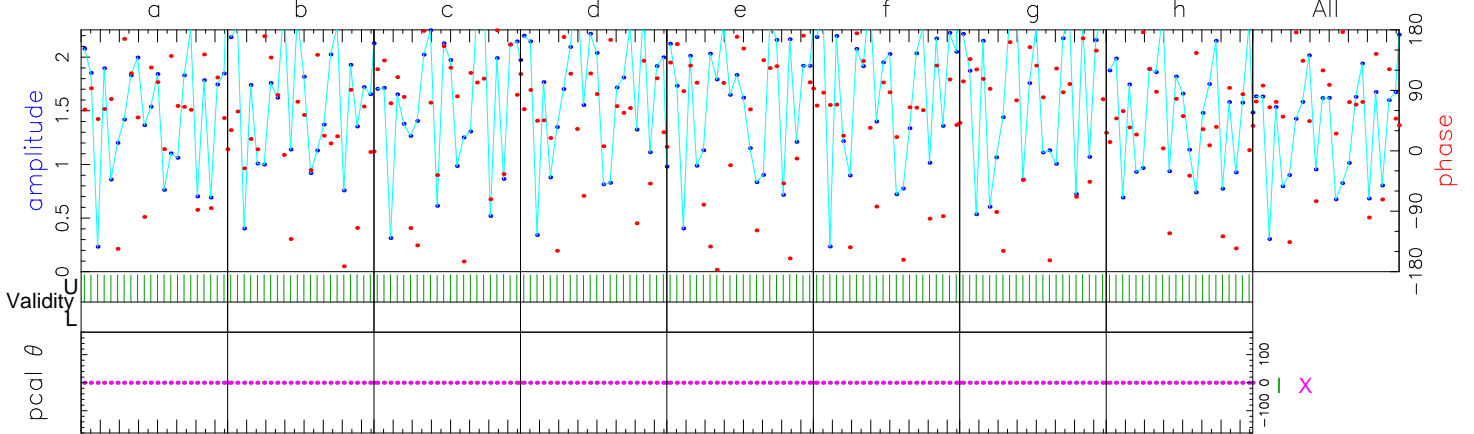


delay rate (ns/s)



Exp. c201c
Yr:day 16383
2020:202:063214
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:210555
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

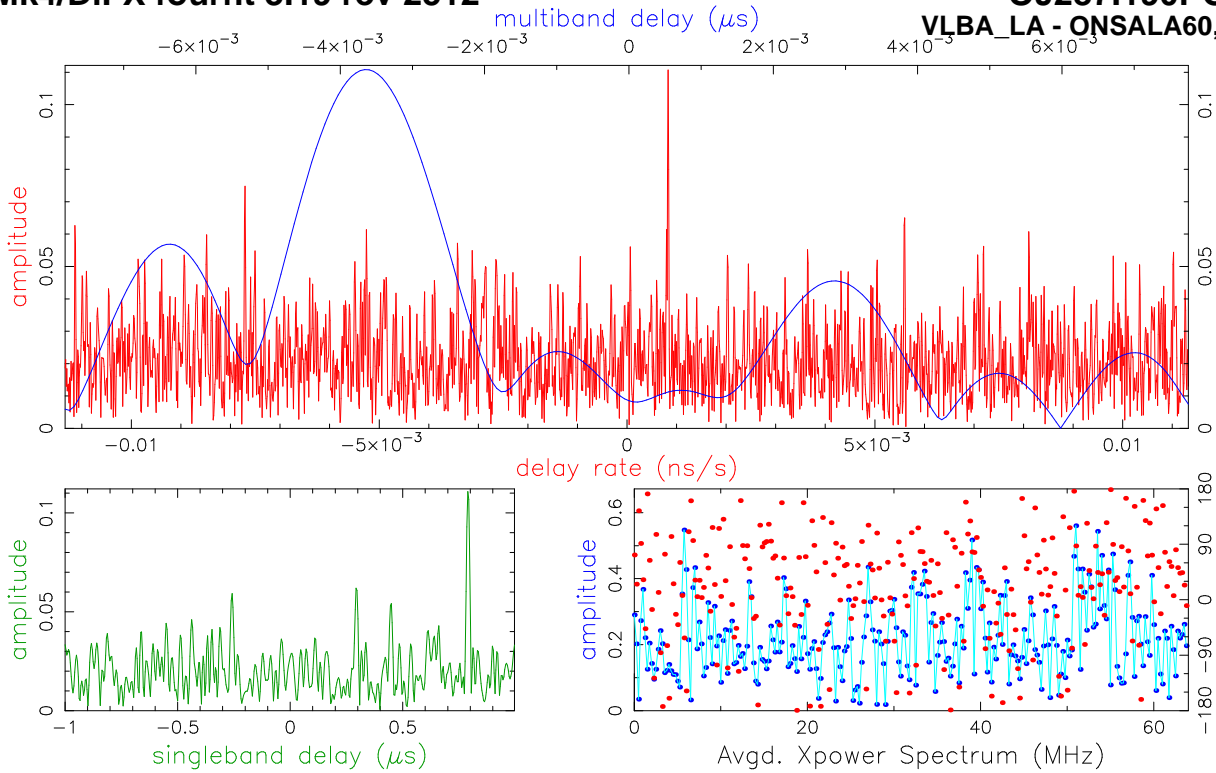


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	88.7	43.3	128.4	77.3	144.8	81.9	122.8	45.9	Phase	92.6
	0.9	0.9	1.0	0.9	0.9	1.0	1.0	0.9	Ampl.	0.9
	261.2	262.0	261.9	261.3	261.3	261.6	261.5	260.6	Sbd box	261.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-4.68562970048E+03	Apriori delay (usec)	-4.68564236426E+03	Resid mbdelay (usec)	-2.96122E-03	+/-	2.5E-05
Sband delay (usec)	-4.68562326226E+03	Apriori clock (usec)	-4.4503204E+01	Resid sbdelay (usec)	1.91020E-02	+/-	2.0E-04
Phase delay (usec)	-4.68564236127E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	2.98658E-06	+/-	8.6E-08
Delay rate (us/s)	1.69170930976E+00	Apriori rate (us/s)	1.69170922640E+00	Resid rate (us/s)	8.33632E-08	+/-	3.4E-10
Total phase (deg)		Apriori accel (us/s/s)	1.47105931689E-05	Resid phase (deg)	92.6	+/-	2.7

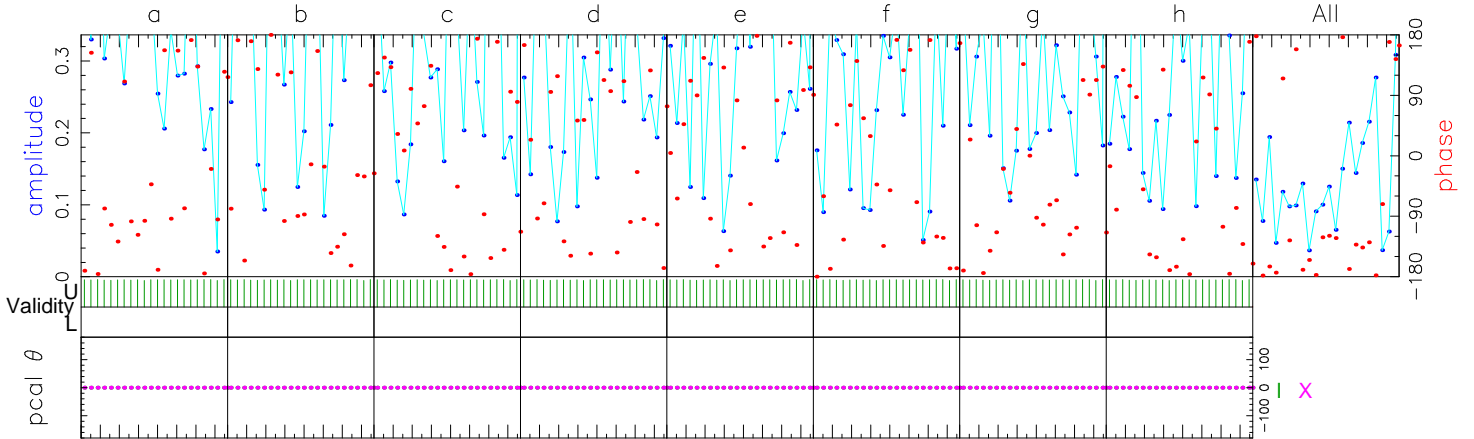
ph/seg (deg)	RMS 78.1	Theor. 6.4	Amplitude Search (2048X32)	0.752 +/- 0.018	0.693	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	95.9	11.2	Interp.	0.000		PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	40.6	3.8	Inc. seg. avg.	1.290		Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	22.5	6.6	Inc. frq. avg.	0.909		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.160.190POF



Fringe quality 0
 SNR 6.4
 Int time 433.779
 Amp 0.112
 Phase -166.5
 PFD 5.0e-02
 Delays (us)
 SBD 0.790325
 MBD -0.003594
 Fringe rate (Hz)
 0.071223
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210600
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

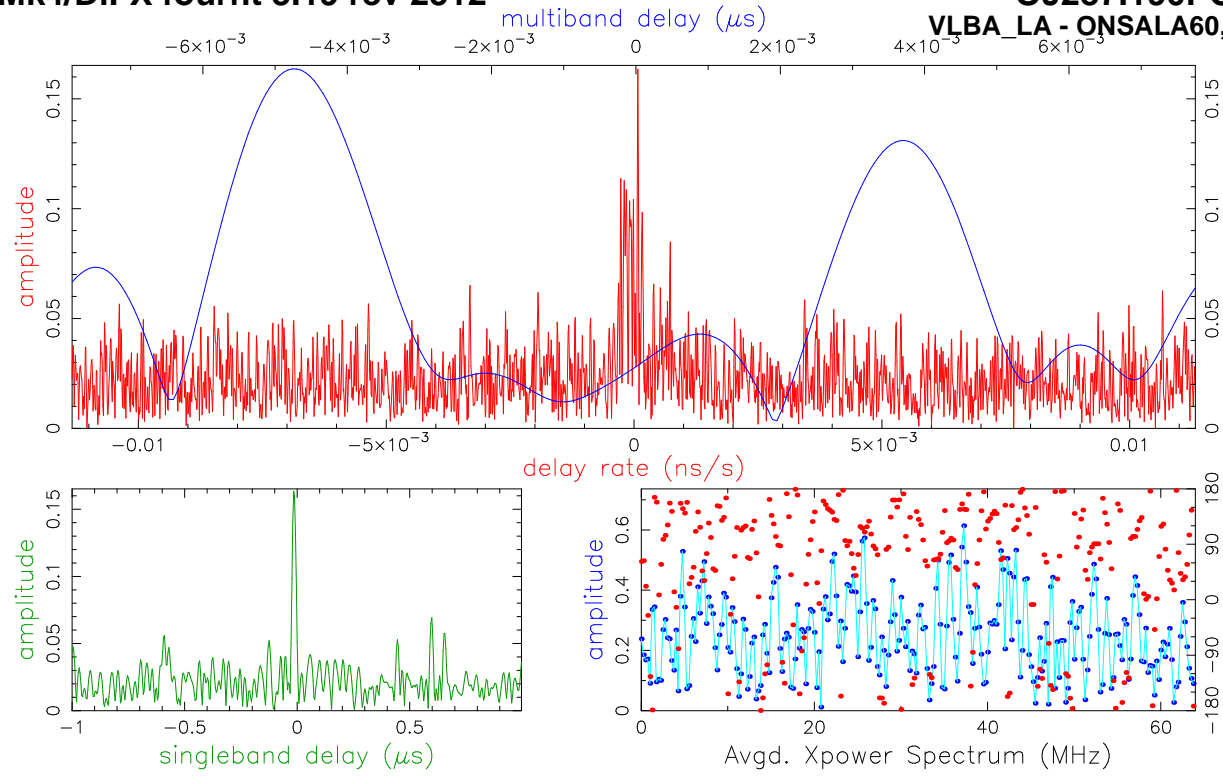


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-4.68484908286E+03	Apriori delay (usec)	-4.68564236426E+03	Resid mbdelay (usec)	-3.59360E-03	+/-	1.7E-04
Sband delay (usec)	-4.68485203926E+03	Apriori clock (usec)	-4.4503204E+01	Resid sbdelay (usec)	7.90325E-01	+/-	1.4E-03
Phase delay (usec)	-4.68564236963E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-5.36837E-06	+/-	5.8E-07
Delay rate (us/s)	1.69171005323E+00	Apriori rate (us/s)	1.69170922640E+00	Resid rate (us/s)	8.26832E-07	+/-	2.3E-09
Total phase (deg)	-259.1	Apriori accel (us/s/s)	1.47105931689E-05	Resid phase (deg)	-166.5	+/-	18.0

ph/seg (deg)	38.1	Theor.	43.1	Amplitude	0.112 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.2		75.3	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	20.4		25.4	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	35.2		44.4	Inc. seg. avg.	0.104	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.106	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.176.190POF

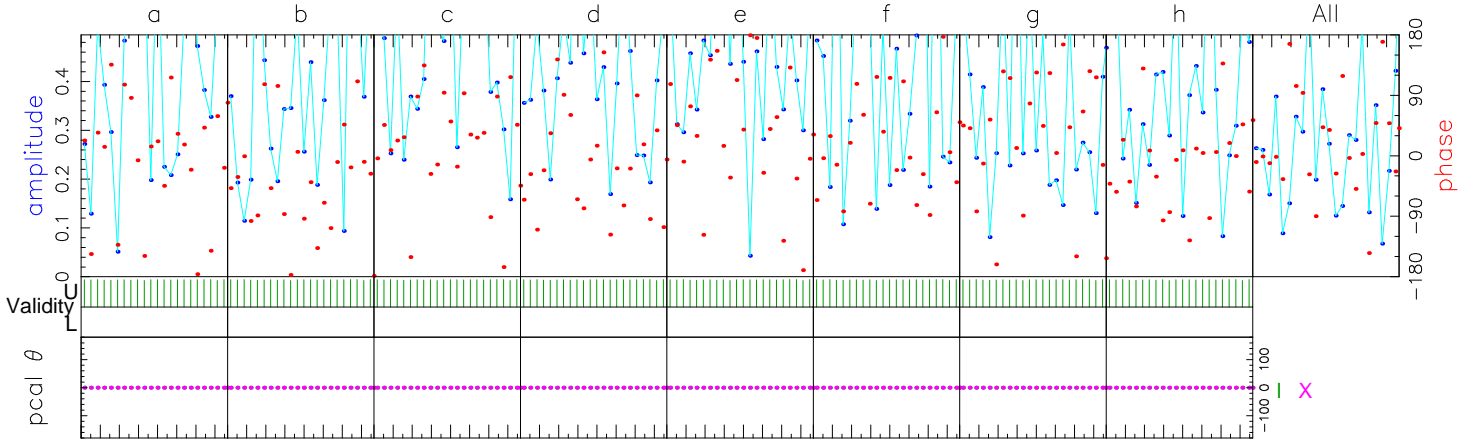


Fringe quality 9

SNR 9.4
 Int time 433.780
 Amp 0.165
 Phase 8.5
 PFD 2.0×10^{-12}
 Delays (us)
 SBD -0.014203
 MBD -0.004676
 Fringe rate (Hz) 0.007071
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210604
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

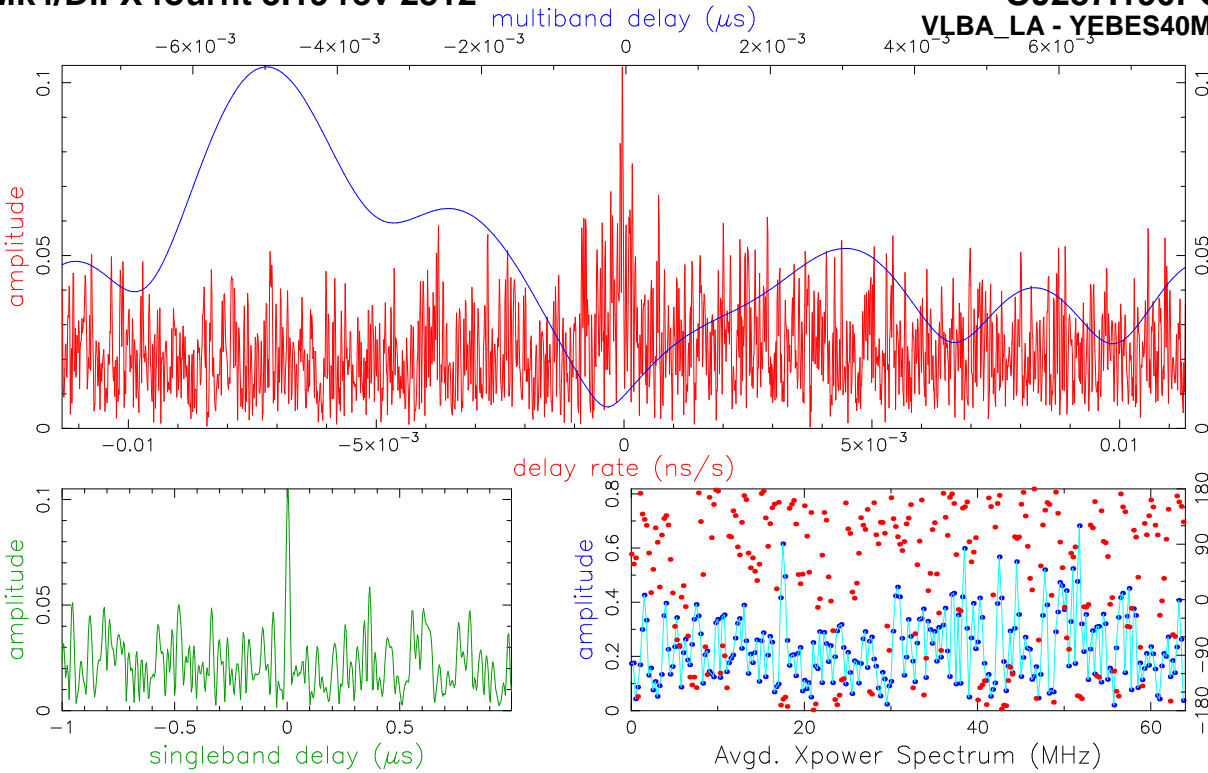
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
Group delay (usec)(sbd)	-4.68566266557E+03				-4.68564236426E+03				-4.67631E-03	+/- 1.2E-04
Sband delay (usec)	-4.68565656751E+03				-4.4503204E+01				-1.42033E-02	+/- 9.2E-04
Phase delay (usec)	-4.68564236398E+03				-6.7900004E-07				2.75316E-07	+/- 3.9E-07
Delay rate (us/s)	1.69170930849E+00				1.69170922640E+00				8.20885E-08	+/- 1.5E-09
Total phase (deg)			-84.1		1.47105931689E-05				8.5	+/- 12.2
	RMS	Theor.	Amplitude	0.165 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	76.1	29.2	Search (2048X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	103.4	51.0	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	45.8	17.2	Inc. seg. avg.	0.239	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	35.2	30.1	Inc. frq. avg.	0.197	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00

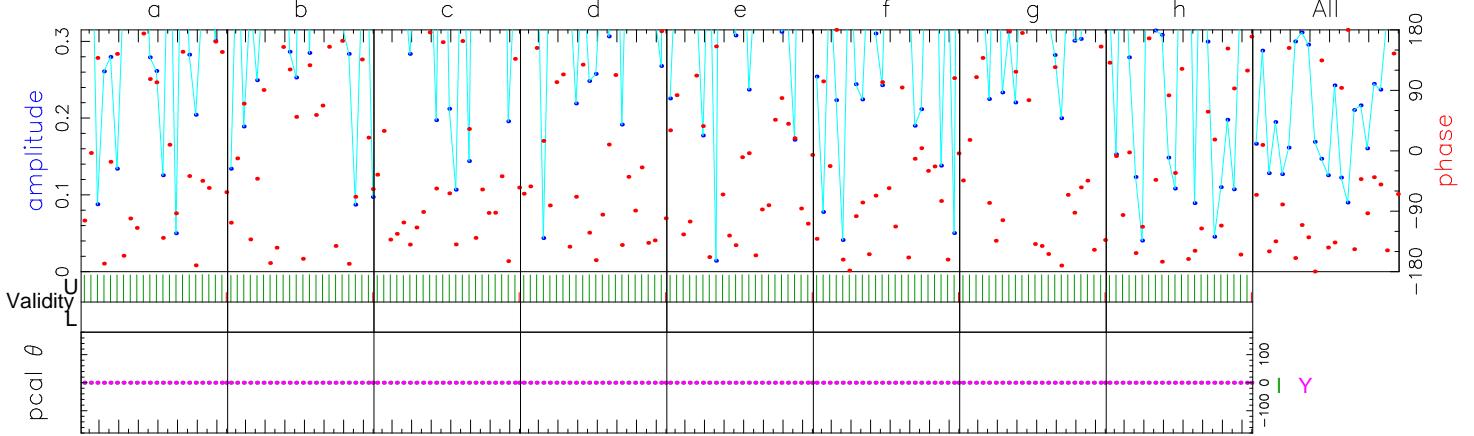
I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.194.190POF



Fringe quality 0
SNR 5.9
Int time 428.255
Amp 0.105
Phase -126.9
PFD 5.1e-01
Delays (us)
SBD 0.003052
MBD -0.004990
Fringe rate (Hz)
-0.002877
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210551
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

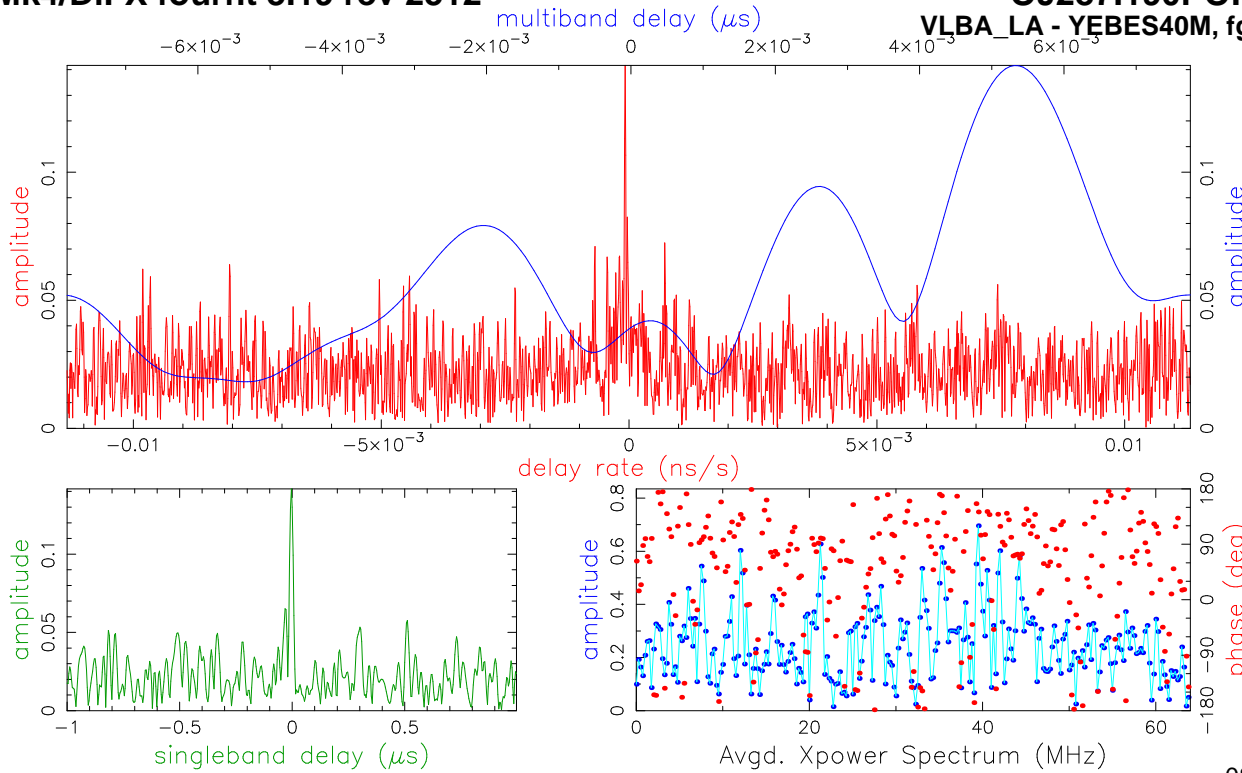
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-143.9	158.3	-110.0	-110.5	-73.3	-83.5	-147.0	178.2	Phase	-126.9
	0.1	0.1	0.3	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	463.7	256.9	257.5	232.3	257.8	351.4	270.9	253.6	Sbd box	257.8
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.80167716832E+03		Apriori delay (usec)		-8.80168780297E+03		Resid mbdelay (usec)		-4.99035E-03	+/- 1.8E-04
Sband delay (usec)	-8.80168475072E+03		Apriori clock (usec)		-1.5691864E+01		Resid sbdelay (usec)		3.05225E-03	+/- 1.4E-03
Phase delay (usec)	-8.80168780707E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-4.09310E-06	+/- 6.2E-07
Delay rate (us/s)	1.69253798590E+00		Apriori rate (us/s)		1.69253801929E+00		Resid rate (us/s)		-3.33979E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.42041665029E-05		Resid phase (deg)		-126.9	+/- 19.3

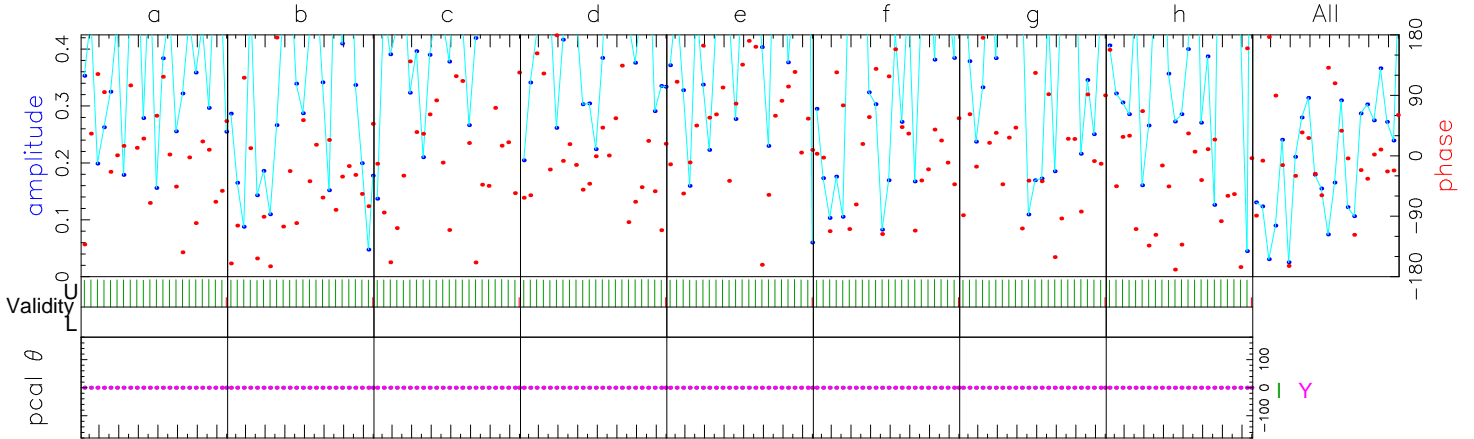
	RMS	Theor.	Amplitude	0.105 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	66.9	46.2	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	124.0	80.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	49.3	27.3	Inc. seg. avg.	0.159	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	58.2	47.6	Inc. frq. avg.	0.125	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.151.190POF



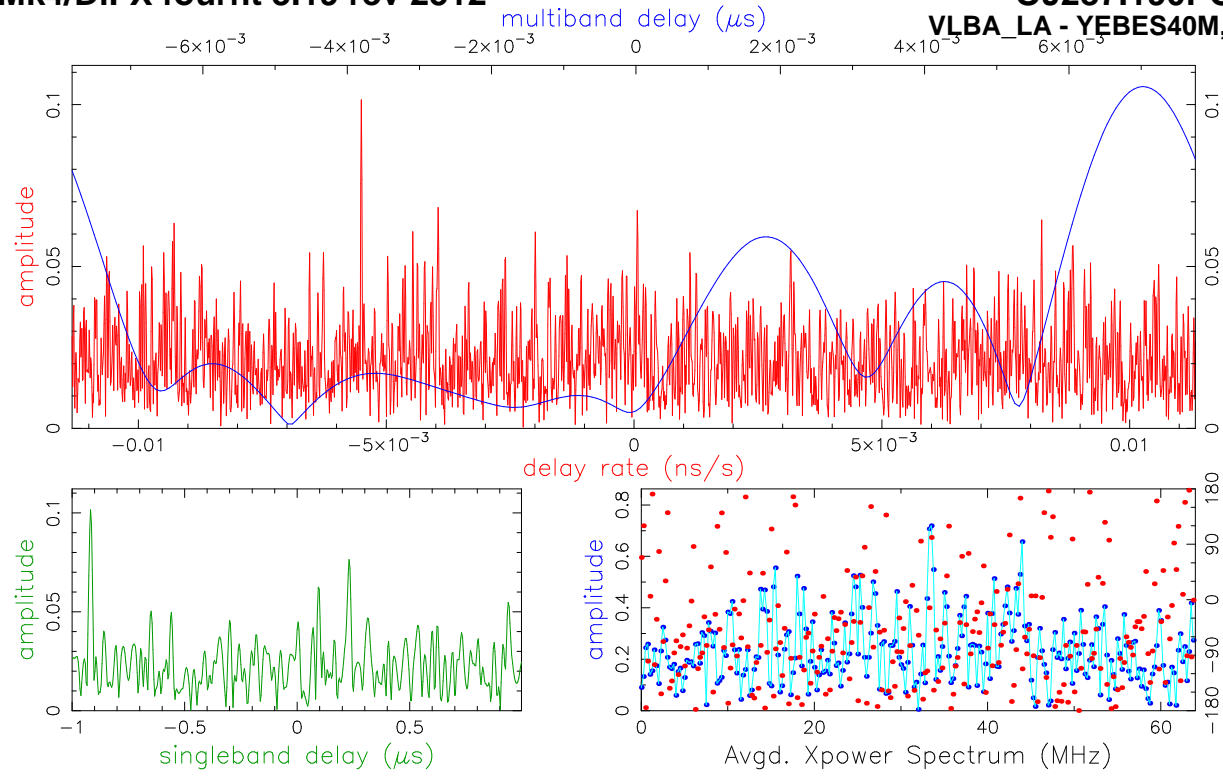
Fringe quality 9
 SNR 8.0
 Int time 428.257
 Amp 0.142
 Phase -1.7
 PFD 3.7e-07
 Delays (us)
 SBD -0.003855
 MBD 0.005333
 Fringe rate (Hz) -0.006807
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210556
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.1	-43.7	12.1	-9.6	84.8	5.2	8.1	-50.6	Phase	-1.7
	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	20.6	256.1	243.1	255.4	255.7	255.8	255.1	254.4	Sbd box	256.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.80169809498E+03		Apriori delay (usec)		-8.80168780297E+03		Resid mbdelay (usec)		5.33299E-03	+/- 1.4E-04
Sband delay (usec)	-8.80169165772E+03		Apriori clock (usec)		-1.5691864E+01		Resid sbdelay (usec)		-3.85475E-03	+/- 1.1E-03
Phase delay (usec)	-8.80168780303E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-5.37840E-08	+/- 4.6E-07
Delay rate (us/s)	1.69253794027E+00		Apriori rate (us/s)		1.69253801929E+00		Resid rate (us/s)		-7.90219E-08	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		4.42041665029E-05		Resid phase (deg)		-1.7	+/- 14.3

ph/seg (deg) 76.2 34.3 Amplitude 0.142 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.3 59.8 Search (2048X32) 0.140 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.8 20.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.5 35.3 Inc. seg. avg. 0.170 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.165.190POF

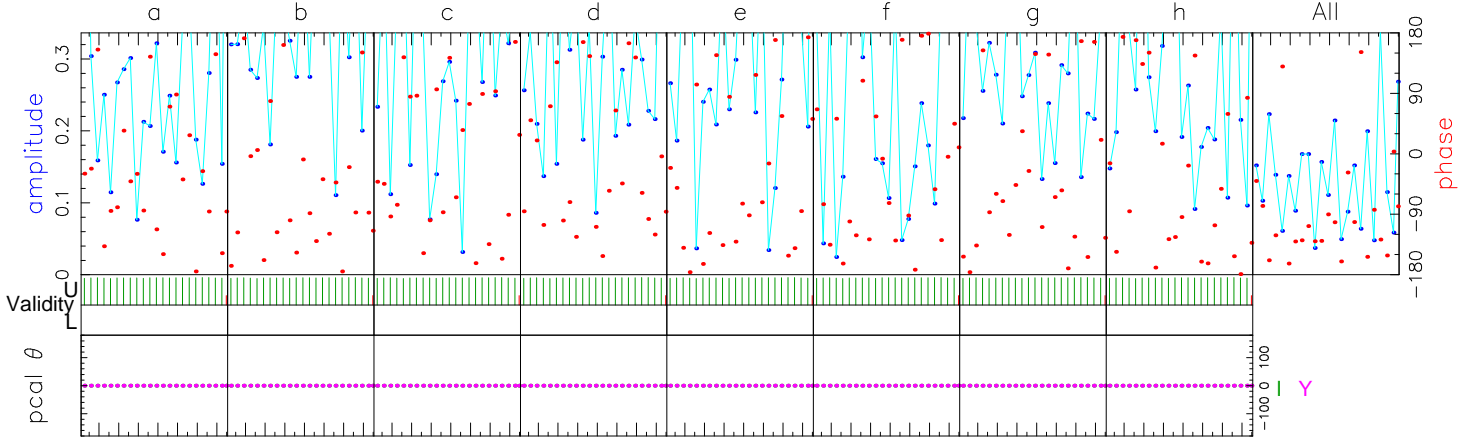


Fringe quality 0

SNR 5.7
 Int time 428.255
 Amp 0.112
 Phase -120.7
 PFD 9.0e-01
 Delays (us)
 SBD -0.917660
 MBD -0.008301
 Fringe rate (Hz)
 -0.474760
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210601
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.1	-110.7	-166.3	-84.7	-129.1	-122.4	-120.1	-150.4	Phase	-120.7
	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	91.3	336.0	232.7	68.3	171.6	281.3	19.7	170.8	Sbd box	22.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-8.80260235375E+03	Apriori delay (usec)	-8.80168780297E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	1.9E-04
Sband delay (usec)	-8.80260546247E+03	Apriori clock (usec)	-1.5691864E+01	Resid sbdelay (usec)	-9.17660E-01	+/-	1.5E-03
Phase delay (usec)	-8.80168780686E+03	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-3.89115E-06	+/-	6.4E-07
Delay rate (us/s)	1.69253250780E+00	Apriori rate (us/s)	1.69253801929E+00	Resid rate (us/s)	-5.51150E-06	+/-	2.6E-09
Total phase (deg)	-246.0	Apriori accel (us/s/s)	4.42041665029E-05	Resid phase (deg)	-120.7	+/-	19.9

ph/seg (deg)	53.0	Theor.	47.8	Amplitude	0.112 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	77.6	Search (2048X32)	0.104	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	36.5	Inc. seg. avg.	0.109	Inc. frq. avg.	0.112	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	39.3	Inc. frq. avg.	0.112			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	

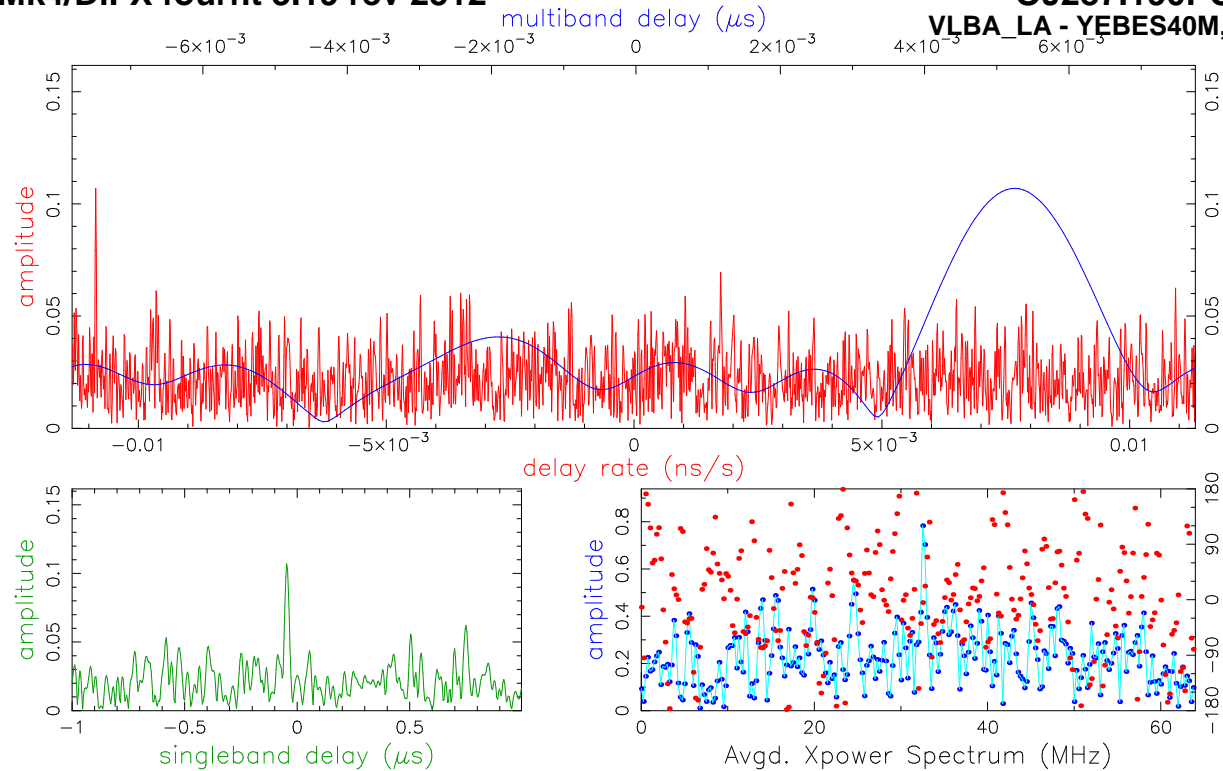
I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.186.190POF

Mk4/DiFX fourfit 3.19 rev 2512

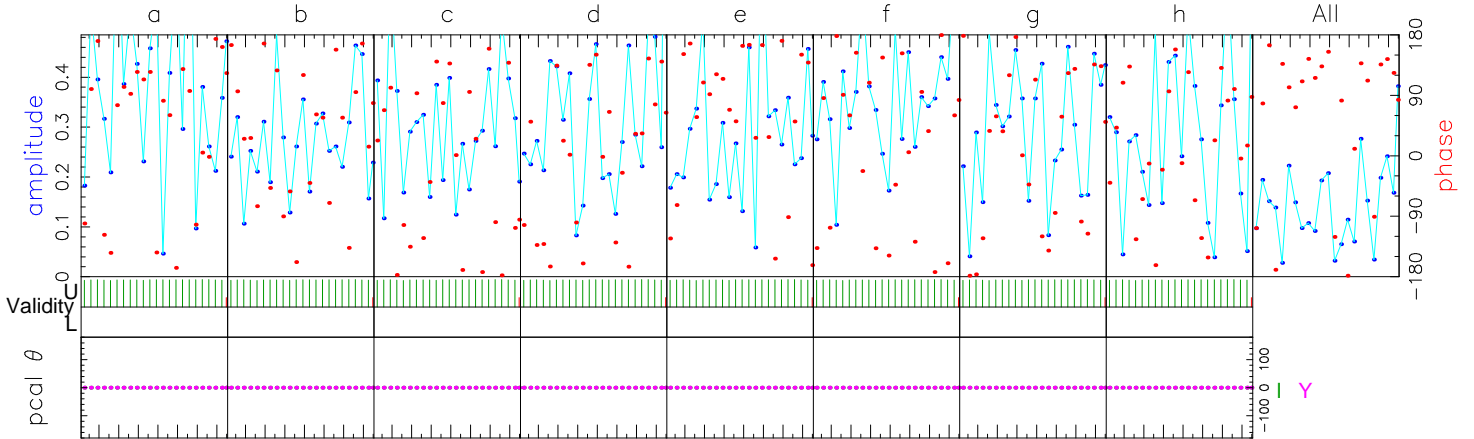
OJ287.190POF, No0032, IY

VLBA_LA - YEBES40M, fgroup W, pol RL



Fringe quality 0
 SNR 6.1
 Int time 428.257
 Amp 0.162
 Phase 129.0
 PFD 3.0e-01
 Delays (us)
 SBD -0.046150
 MBD 0.005275
 Fringe rate (Hz)
 -0.936704
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210606
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

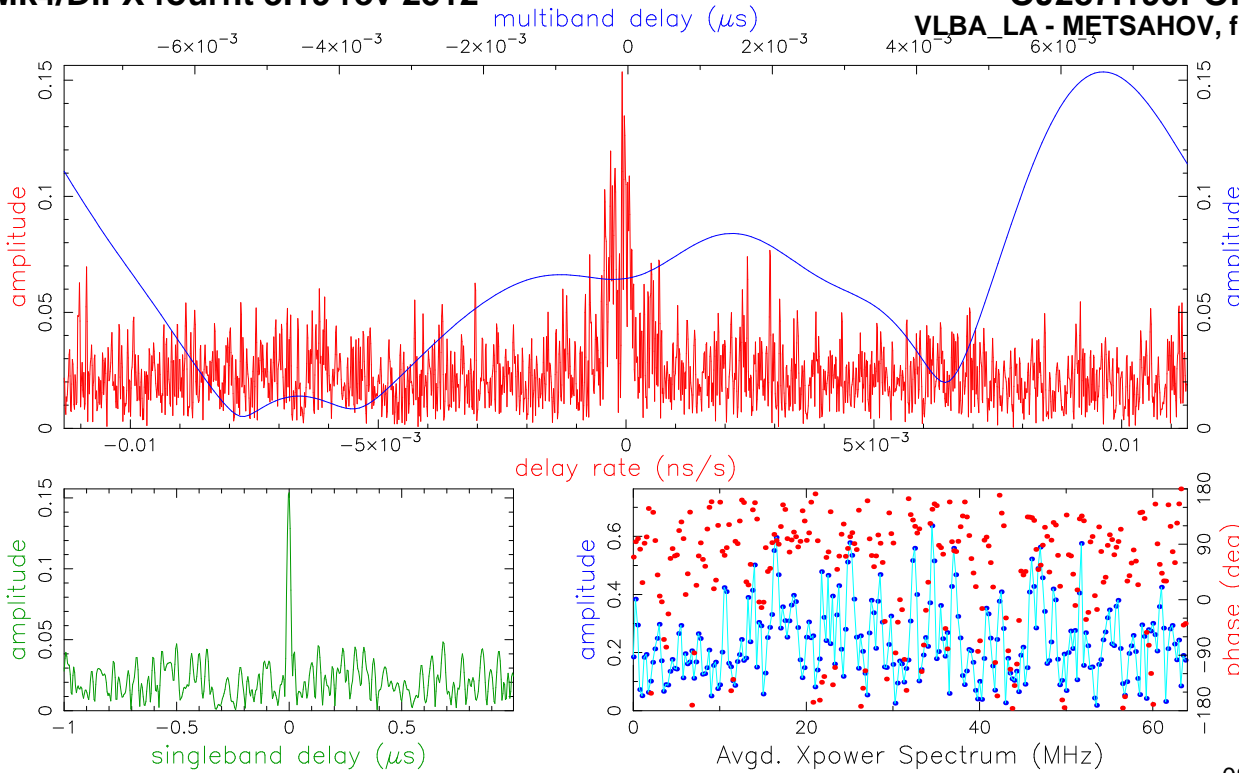
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	122.7	119.7	156.4	120.4	139.3	122.2	126.2	111.3	Phase	129.0
	0.3	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	245.5	293.5	234.9	415.1	259.8	411.3	33.1	77.5	Sbd box	245.2
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.80172940310E+03		Apriori delay (usec)		-8.80168780297E+03		Resid mbdelay (usec)		5.27487E-03	+/- 1.8E-04
Sband delay (usec)	-8.80173395272E+03		Apriori clock (usec)		-1.5691864E+01		Resid sbdelay (usec)		-4.61497E-02	+/- 1.4E-03
Phase delay (usec)	-8.80168779881E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		4.16118E-06	+/- 6.1E-07
Delay rate (us/s)	1.69252714509E+00		Apriori rate (us/s)		1.69253801929E+00		Resid rate (us/s)		-1.08742E-05	+/- 2.4E-09
Total phase (deg)	3.7		Apriori accel (us/s/s)		4.42041665029E-05		Resid phase (deg)		129.0	+/- 18.9

	RMS	Theor.	Amplitude	0.162 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.1	45.3	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	76.9	79.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	15.4	26.7	Inc. seg. avg.	0.163	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	41.9	46.7	Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.202.190POF

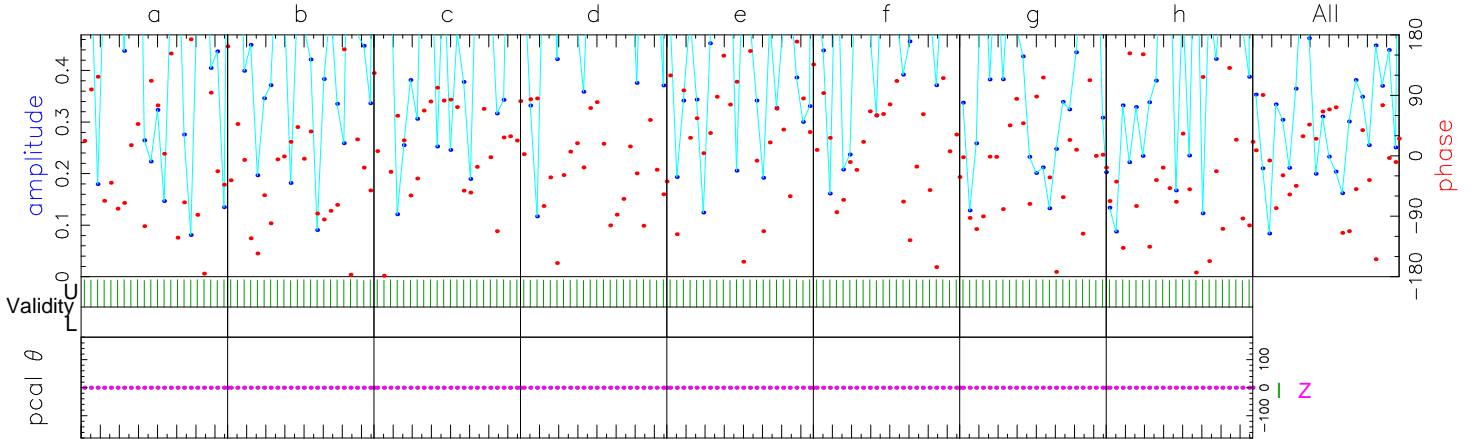


Fringe quality 9

SNR 8.9
 Int time 433.253
 Amp 0.156
 Phase 3.5
 PFD 2.1×10^{-10}
 Delays (us)
 SBD -0.001742
 MBD 0.006574
 Fringe rate (Hz)
 -0.006835
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210553
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



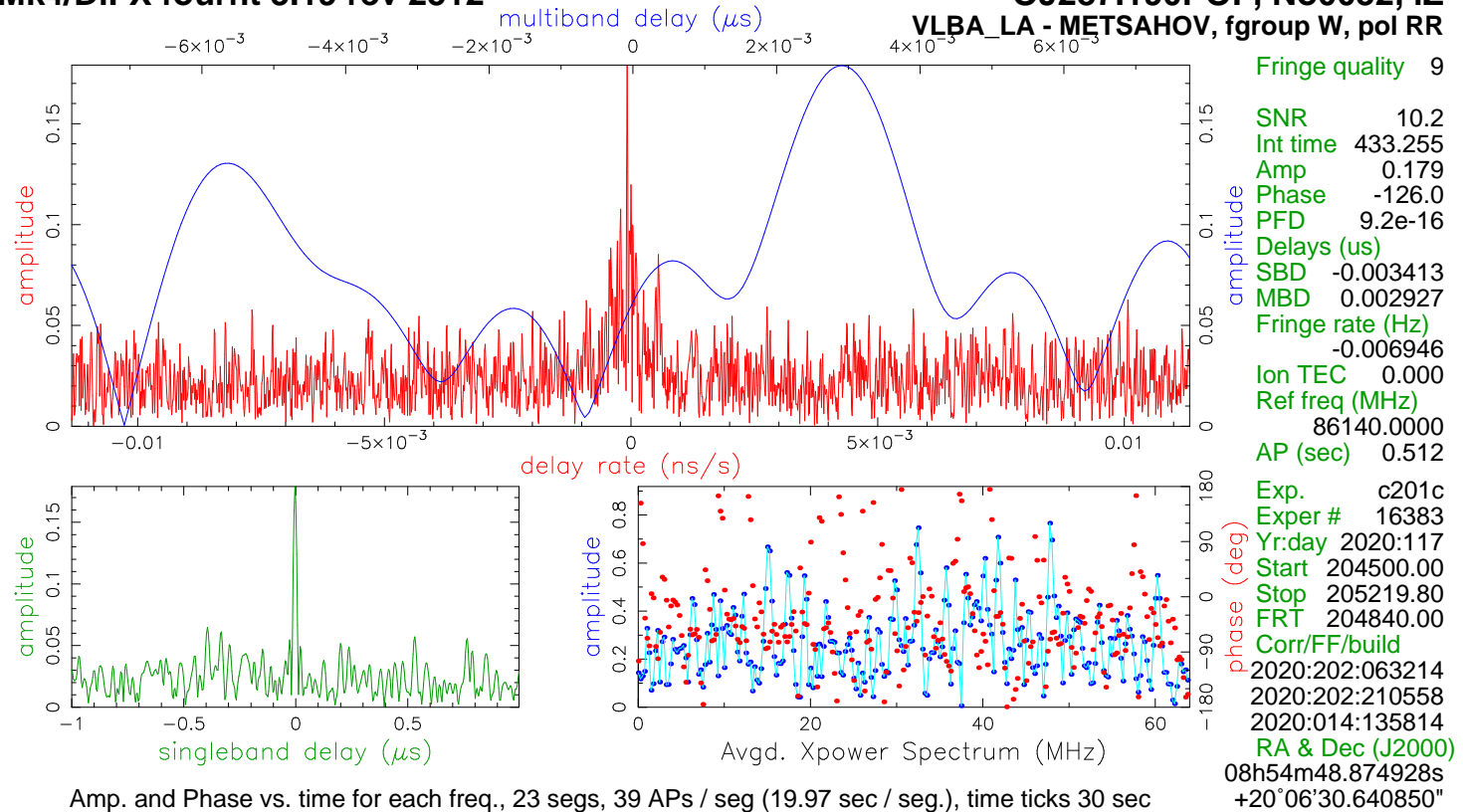
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.1	-25.6	31.8	-21.4	78.3	25.3	-2.8	-83.7		Phase
	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.1		Ampl.
	374.5	265.6	255.9	256.3	255.8	255.5	255.3	253.9		Sbd box
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used
I	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
I	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd)	-2.54431866968E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	6.57375E-03	+/-	1.2E-04
Sband delay (usec)	-2.54431136068E+03	Apriori clock (usec)	-3.5975480E+00	Resid sbdelay (usec)	-1.74225E-03	+/-	9.7E-04
Phase delay (usec)	-2.54430961832E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	1.13680E-07	+/-	4.2E-07
Delay rate (us/s)	1.74576434019E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-7.93471E-08	+/-	1.6E-09
Total phase (deg)	-188.0	Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	3.5	+/-	12.9

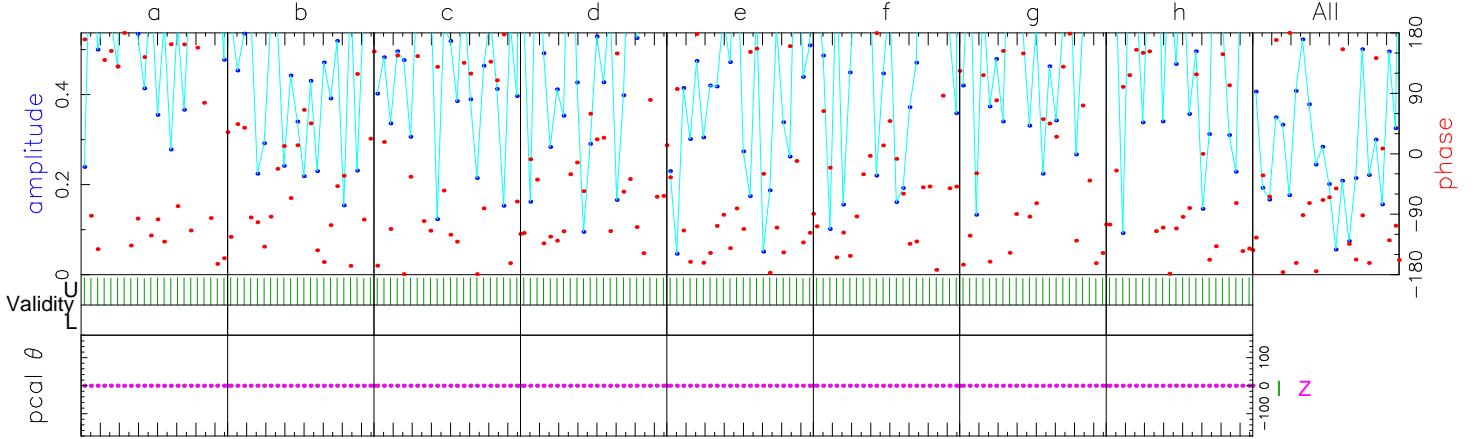
ph/seg (deg)	67.6	RMS	30.9	Theor.	31.8	Amplitude	0.156 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	124.2	Search (2048X32)	0.150	Search (2048X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	52.4	Interp.	0.000	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	55.3	Inc. seg. avg.	0.272	Inc. seg. avg.	0.272	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.188	Inc. frq. avg.	0.188	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.155.190POF



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



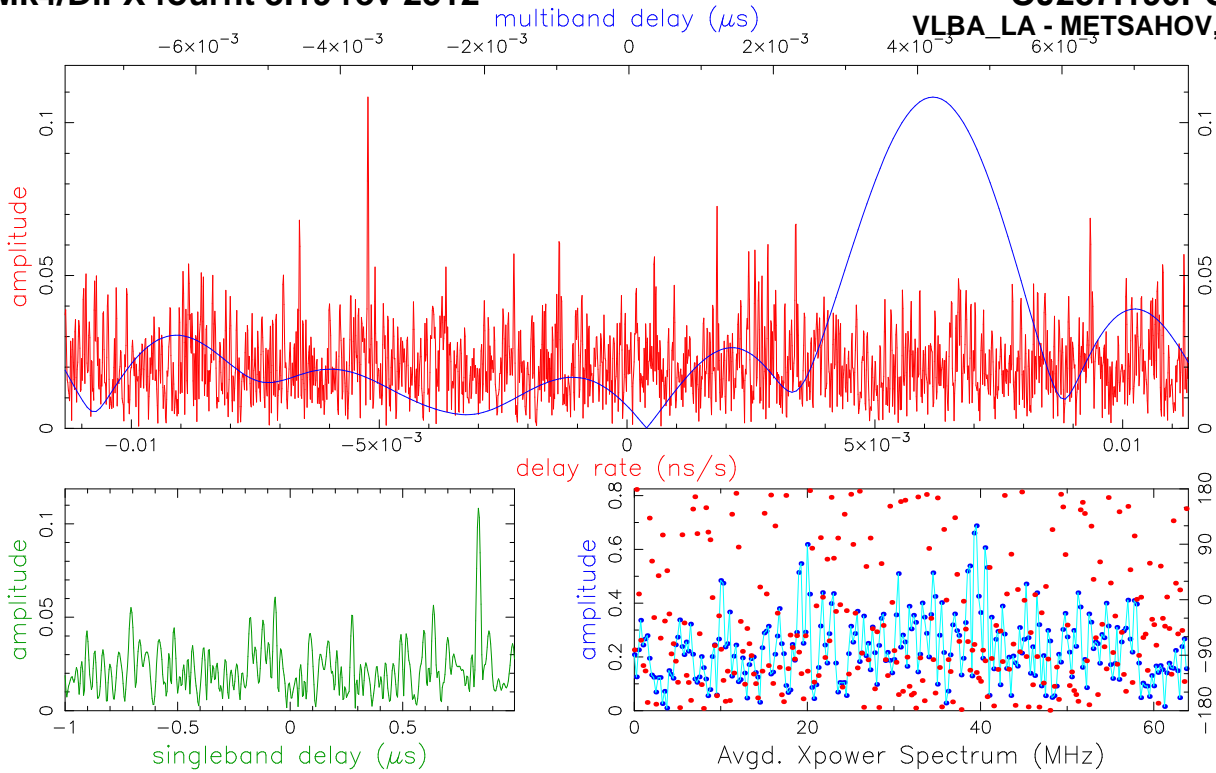
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Phase	-156.7	-67.8	-155.9	-65.3	-124.3	-63.4	-160.8	-150.2		-126.0
Ampl.	0.4	0.1	0.2	0.3	0.2	0.2	0.2	0.3		0.2
Sbd box	257.3	258.5	257.3	256.5	256.8	257.5	256.1	255.7		256.1
APs used	U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
PC freqs	I 1000	1000	1000	1000	1000	1000	1000	1000		
PC freqs	Z 1000	1000	1000	1000	1000	1000	1000	1000		
PC phase	I:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Mani PC	I:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
PC amp	I 1000	1000	1000	1000	1000	1000	1000	1000		
	Z 1000	1000	1000	1000	1000	1000	1000	1000		
Chan ids	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Tracks										
Chan ids	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Tracks										

Group delay (usec)(sbd)	-2.54430669112E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	2.92731E-03	+/-	1.1E-04
Sband delay (usec)	-2.54431303143E+03	Apriori clock (usec)	-3.5975480E+07	Resid sbdelay (usec)	-3.41300E-03	+/-	8.5E-04
Phase delay (usec)	-2.54430962250E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-4.06401E-06	+/-	3.6E-07
Delay rate (us/s)	1.74576433891E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-8.06310E-08	+/-	1.4E-09
Total phase (deg)		Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	-126.0	+/-	11.2

ph/seg (deg)	59.9	Theor.	27.0	Amplitude	0.179 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	92.9		47.0	Search (2048X32)	0.174	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	49.4		15.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	48.6		27.7	Inc. seg. avg.	0.255	Sample rate (MSamp/s):	128		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.224	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.171.190POF

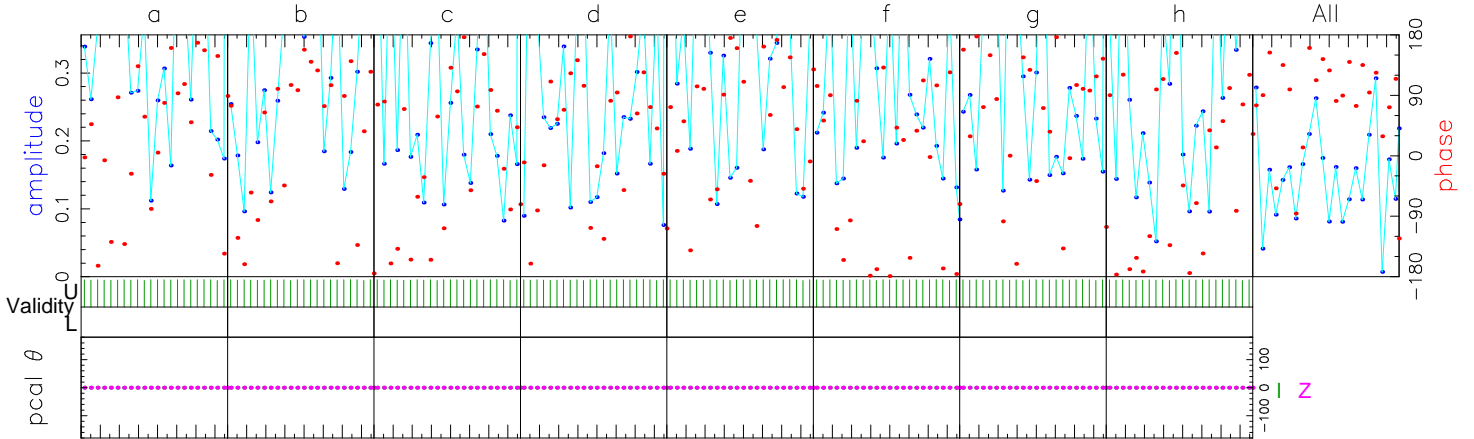


Fringe quality 0

SNR 6.2
 Int time 433.253
 Amp 0.119
 Phase 107.7
 PFD 1.5e-01
 Delays (us)
 SBD 0.836636
 MBD 0.004216
 Fringe rate (Hz)
 -0.450659
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210602
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-2.54347727760E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	4.21583E-03	+/-	1.8E-04
Sband delay (usec)	-2.54347298268E+03	Apriori clock (usec)	-3.5975480E+07	Resid sbdelay (usec)	8.36636E-01	+/-	1.4E-03
Phase delay (usec)	-2.54430961496E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	3.47462E-06	+/-	6.0E-07
Delay rate (us/s)	1.74575918784E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-5.23170E-06	+/-	2.4E-09
Total phase (deg)	-83.8	Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	107.7	+/-	18.5

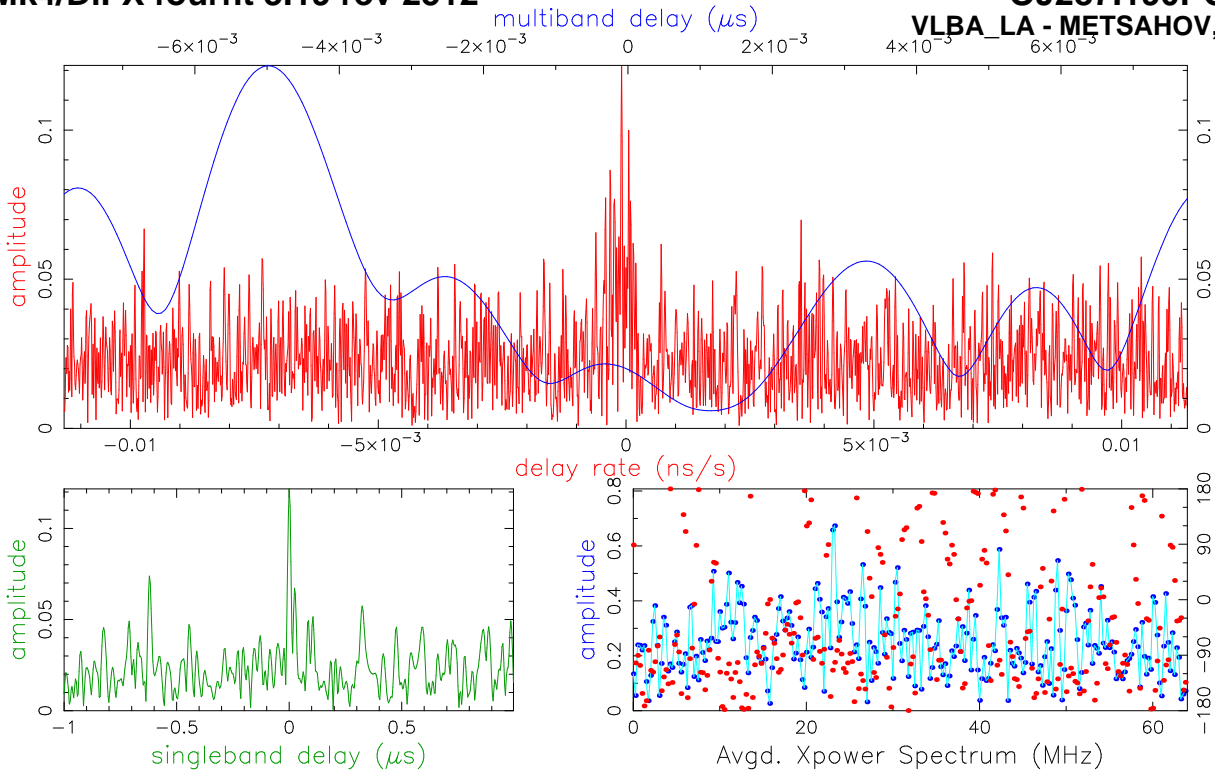
ph/seg (deg)	61.1	Theor.	44.4	Amplitude	0.119 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.5		77.6	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	13.7		26.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	22.6		45.7	Inc. seg. avg.	0.125	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.110	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.187.190POF

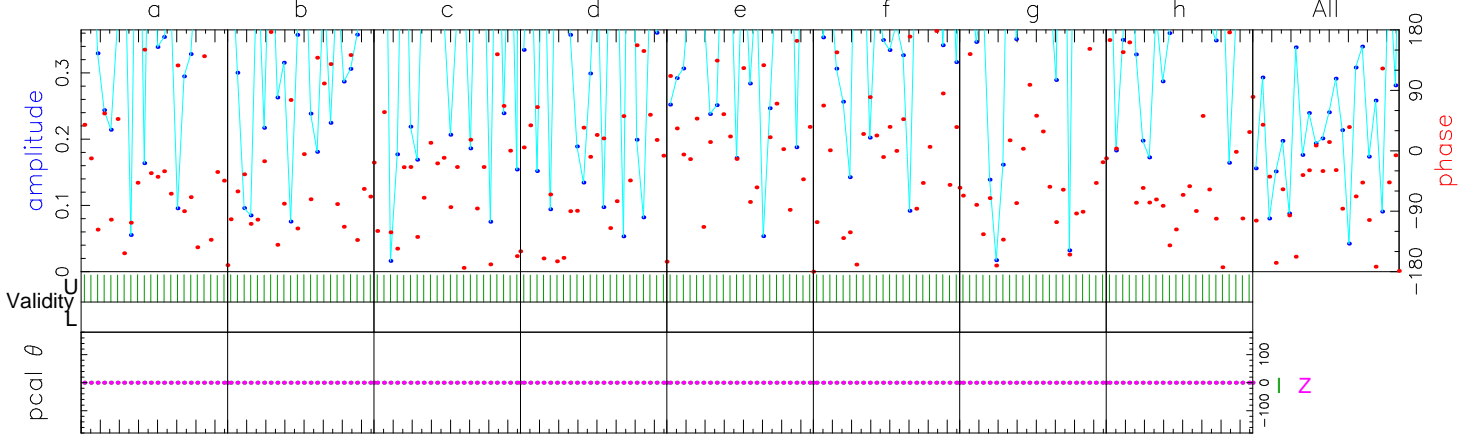
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, IZ
VLBA_LA - METSAHOV, fgroup W, pol RL



Fringe quality 0
SNR 6.9
Int time 433.255
Amp 0.122
Phase -49.7
PFD 1.3e-03
Delays (us)
SBD 0.000400
MBD -0.004977
Fringe rate (Hz)
-0.007170
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210606
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.54431459577E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	-4.97734E-03	+/-	1.6E-04
Sband delay (usec)	-2.54430921868E+03	Apriori clock (usec)	-3.5975480E+00	Resid sbdelay (usec)	3.99750E-04	+/-	1.2E-03
Phase delay (usec)	-2.54430962004E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-1.60365E-06	+/-	5.3E-07
Delay rate (us/s)	1.74576433631E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-8.32343E-08	+/-	2.1E-09
Total phase (deg)	-241.2	Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	-49.7	+/-	16.5

ph/seg (deg)	69.4	Theor.	39.7	Amplitude	0.122 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	115.0		69.2	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	41.4		23.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.4		40.8	Inc. seg. avg.	0.177	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.139	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.199.190POF