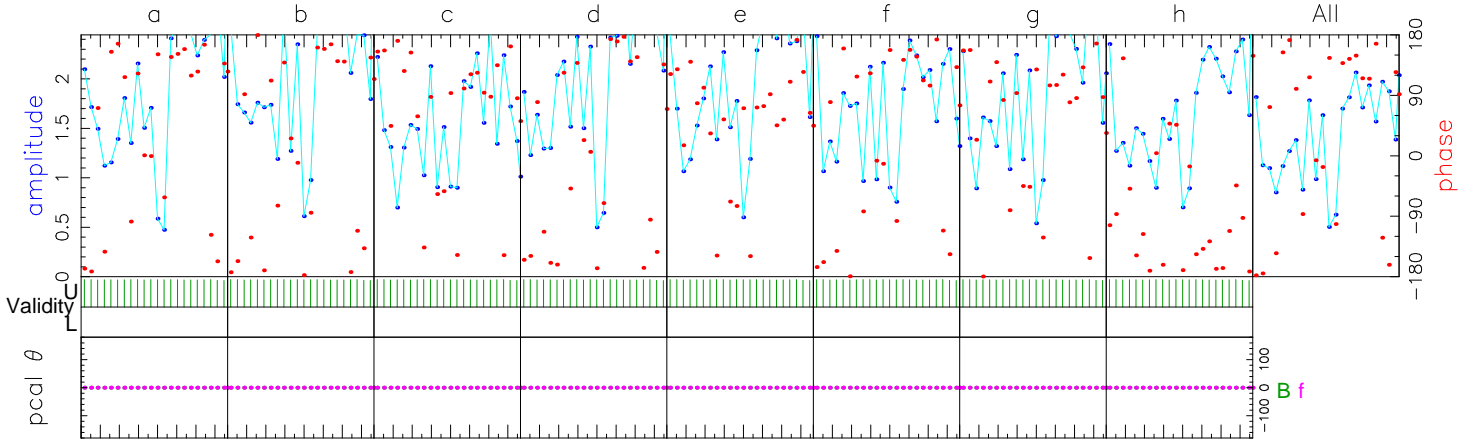


Fringe quality 4
SNR 46.5
Int time 435.108
Amp 0.815
Phase 152.9
PFD 0.0e+00
Delays (us)
SBD -0.001723
MBD 0.005322
Fringe rate (Hz) 0.007399
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210519
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

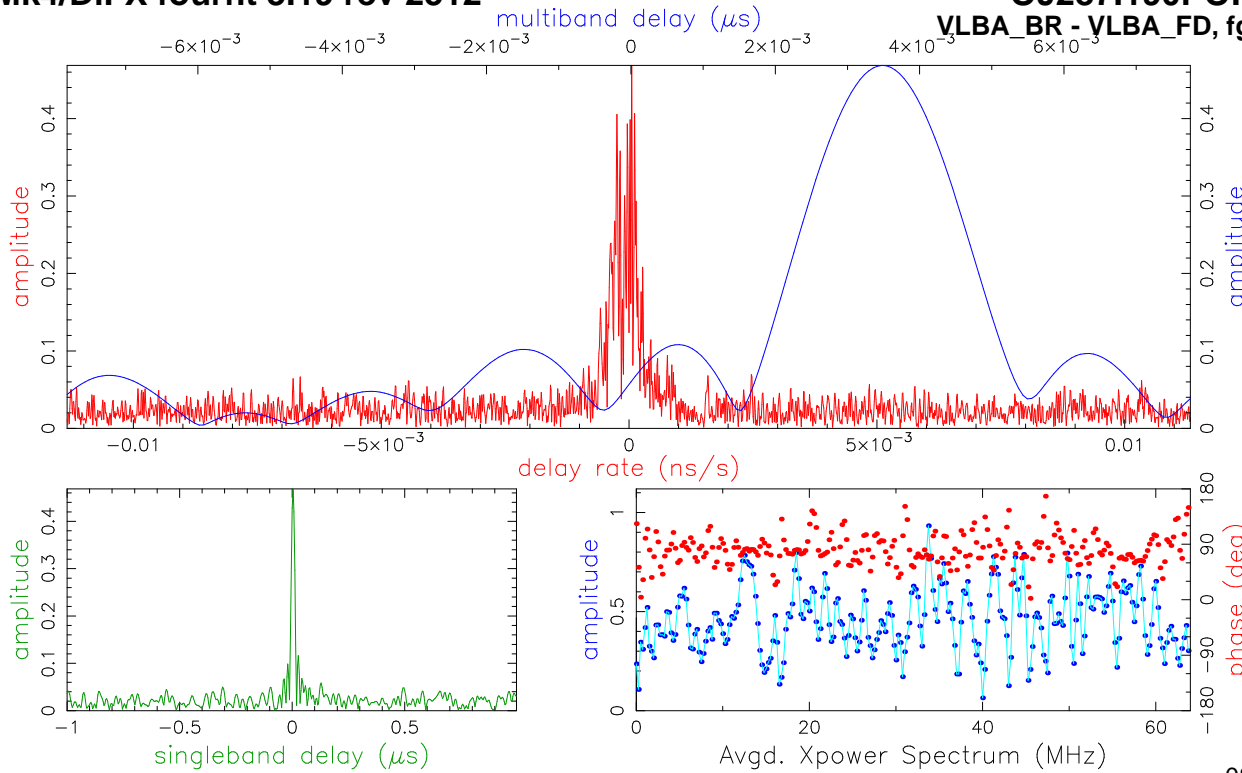
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	158.3	172.7	124.7	178.9	88.5	160.4	123.9	-127.1		
Sband delay (usec)	1.1	1.2	0.9	1.0	1.1	0.9	1.0	0.9		
Phase delay (usec)	256.3	256.8	257.0	256.9	257.3	257.0	257.3	257.6		
Delay rate (us/s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total phase (deg)			148.1							
Apriori delay (usec)					5.85900942636E+03				5.32165E-03	+/- 2.3E-05
Apriori clock (usec)					9.1324768E+00				-1.72325E-03	+/- 1.9E-04
Apriori clockrate (us/s)					-3.0900000E-07				4.93072E-06	+/- 7.9E-08
Apriori rate (us/s)					-1.78463874413E+00				8.58999E-08	+/- 3.1E-10
Apriori accel (us/s/s)					-2.09693946267E-05				152.9	+/- 2.5
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

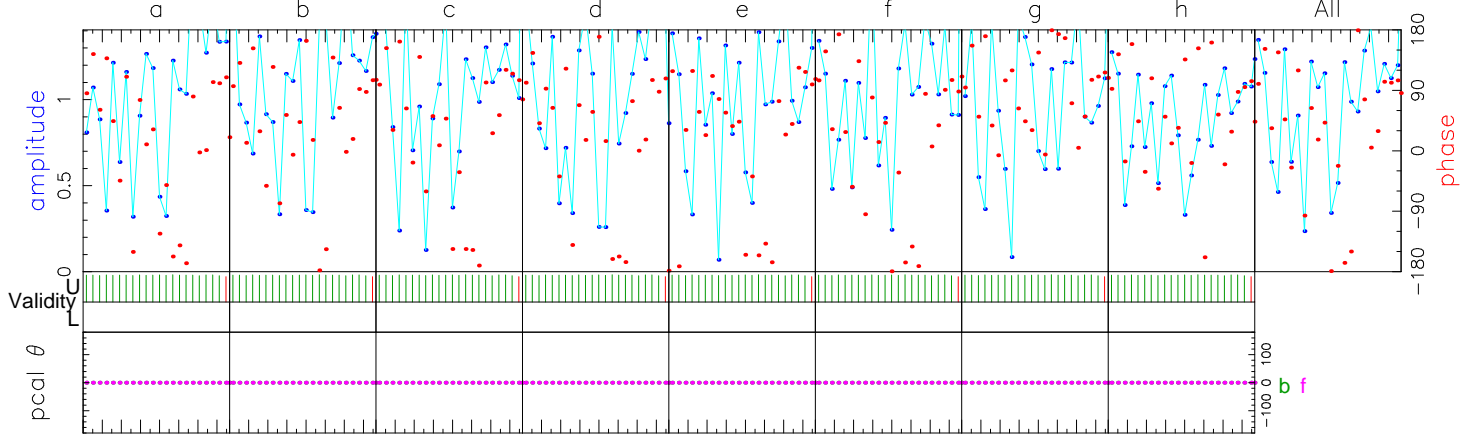
RMS Theor. Amplitude 0.815 +/- 0.018
ph/seg (deg) 70.9 5.9 Search (2048X32) 0.783
amp/seg (%) 91.8 10.3 Interp. 0.000
ph/frq (deg) 47.2 3.5 Inc. seg. avg. 1.407
amp/frq (%) 28.6 6.1 Inc. frq. avg. 1.024

B: az 239.9 el 46.7 pa 35.9 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 10839.565 1523.381 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bf..190POF Output file: /Exps/c201c/v1/1234/No0032/Bf.W.23.190POF

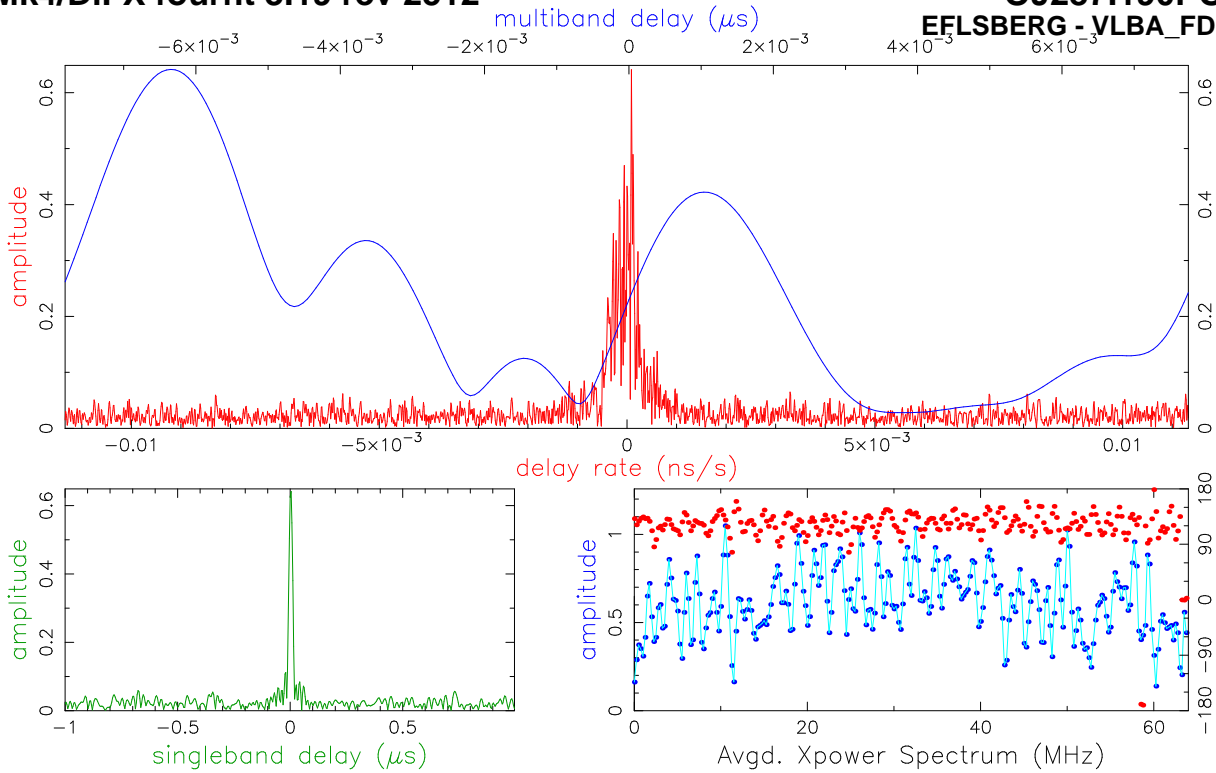


Fringe quality 7
SNR 26.5
Int time 427.909
Amp 0.469
Phase 82.8
PFD 0.0e+00
Delays (us)
SBD 0.003727
MBD 0.003481
Fringe rate (Hz) 0.004611
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
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	Ampl.	0.5
f	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	258.0
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
f	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.16979952543E+03								Resid mbdelay (usec)	3.48141E-03 +/- 4.1E-05
Sband delay (usec)	-3.16979928010E+03								Resid sbdelay (usec)	3.72675E-03 +/- 3.2E-04
Phase delay (usec)	-3.16980300418E+03								Resid phdelay (usec)	2.67051E-06 +/- 1.4E-07
Delay rate (us/s)	-2.10714959237E-01								Resid rate (us/s)	5.35244E-08 +/- 5.5E-10
Total phase (deg)			79.3						Resid phase (deg)	82.8 +/- 4.3
	RMS	Theor.	Amplitude	0.469 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	77.8	10.4	Search (2048X32)	0.461					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	129.8	18.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	8.3	6.1	Inc. seg. avg.	0.958					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	11.9	10.7	Inc. frq. avg.	0.469					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 78.2 el 16.5 pa -44.1			f: az 80.8 el 25.4 pa -64.7						nlags: 256	t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c201c/v1/1234/No0032/bf..190POF						u,v (fr/asec) 1324.436 2691.445	simultaneous interpolator
									Output file: /Exps/c201c/v1/1234/No0032/bf.W.31.190POF	

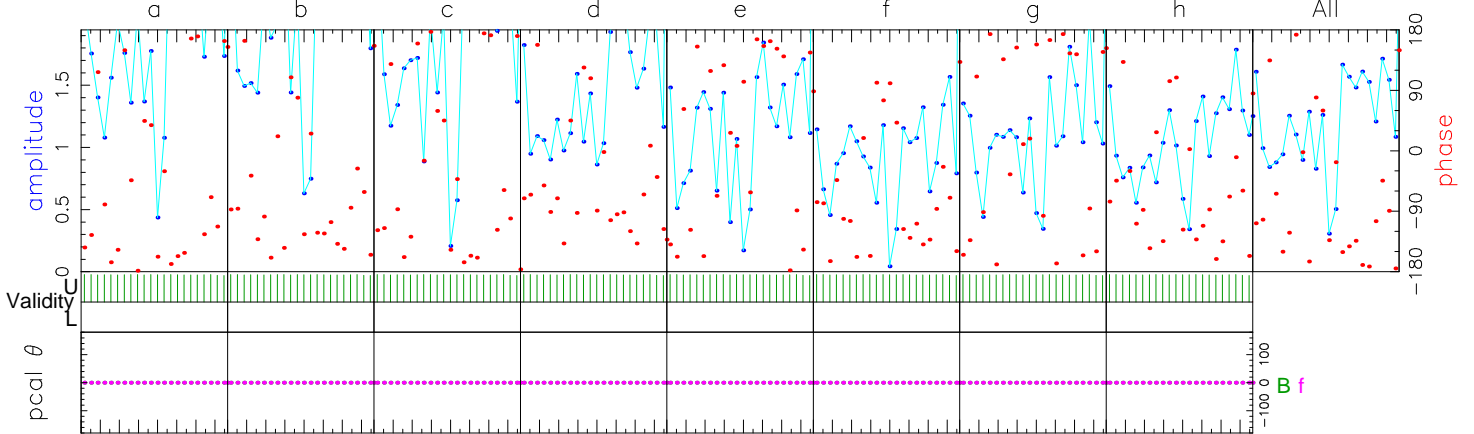


Fringe quality 3

SNR 37.0
Int time 435.108
Amp 0.649
Phase -133.6
PFD 0.0e+00
Delays (us)
SBD 0.002506
MBD -0.006382
Fringe rate (Hz) 0.007417
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

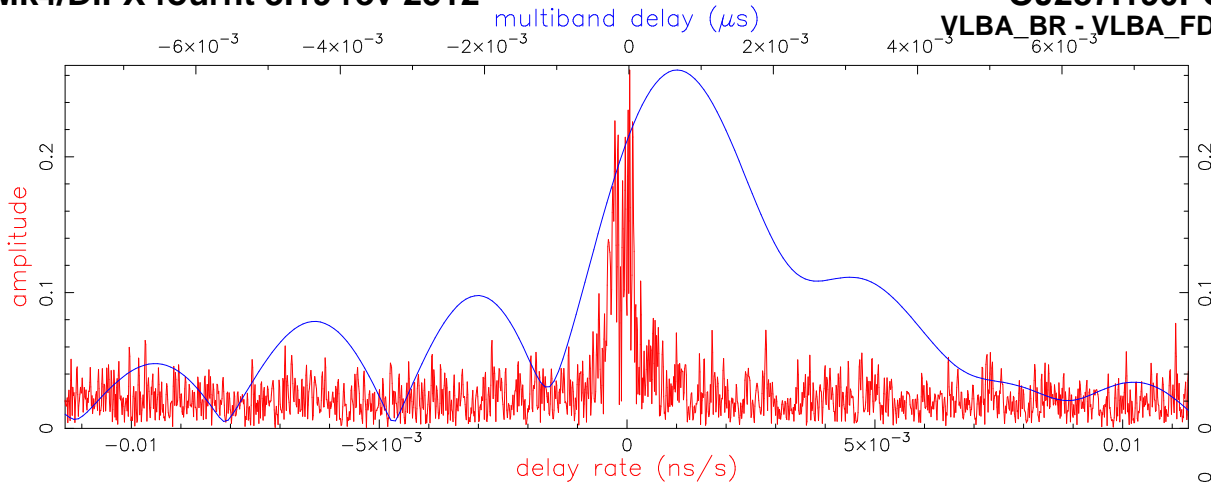


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-155.0	-111.0	-149.2	-83.0	173.3	-101.7	-177.1	-100.3	Phase	-133.6
	1.1	1.2	1.0	0.8	0.6	0.5	0.6	0.5	Ampl.	0.8
	257.7	258.2	258.2	258.2	257.9	257.7	258.1	259.3	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.85901866939E+03		Apriori delay (usec)		5.85900942636E+03		Resid mbdelay (usec)		-6.38198E-03	+/- 2.9E-05
Sband delay (usec)	5.85901193186E+03		Apriori clock (usec)		9.1324768E+00		Resid sbdelay (usec)		2.50550E-03	+/- 2.3E-04
Phase delay (usec)	5.85900942205E+03		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-4.30774E-06	+/- 1.0E-07
Delay rate (us/s)	-1.78463865802E+00		Apriori rate (us/s)		-1.78463874413E+00		Resid rate (us/s)		8.61046E-08	+/- 3.9E-10
Total phase (deg)	221.6		Apriori accel (us/s/s)		-2.09693946267E-05		Resid phase (deg)		-133.6	+/- 3.1

	RMS	Theor.	Amplitude	0.649 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	72.4	7.4	Search (2048X32)	0.629	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	101.7	13.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	42.1	4.4	Inc. seg. avg.	1.179	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	43.7	7.6	Inc. frq. avg.	0.771	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

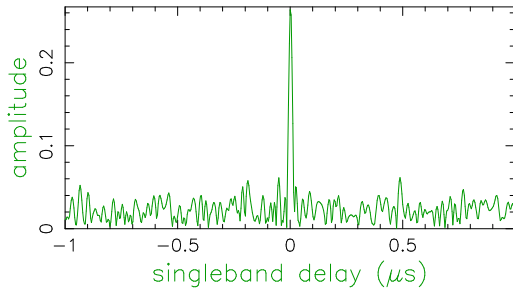
B: az 239.9 el 46.7 pa 35.9 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 10839.565 1523.381 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bf..190POF Output file: /Exps/c201c/v1/1234/No0032/Bf.W.3.190POF

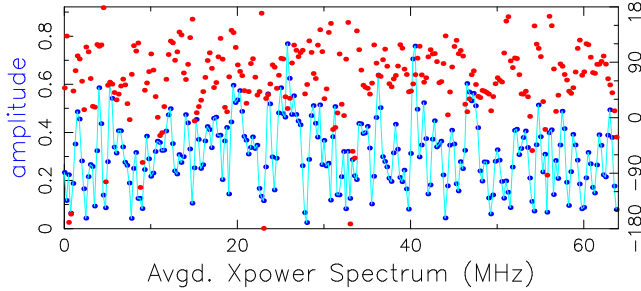


Fringe quality 8

SNR 15.1
Int time 427.908
Amp 0.267
Phase 80.8
PFD 7.4e-43
Delays (us)
SBD 0.001456
MBD 0.000685
Fringe rate (Hz)
0.004658
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

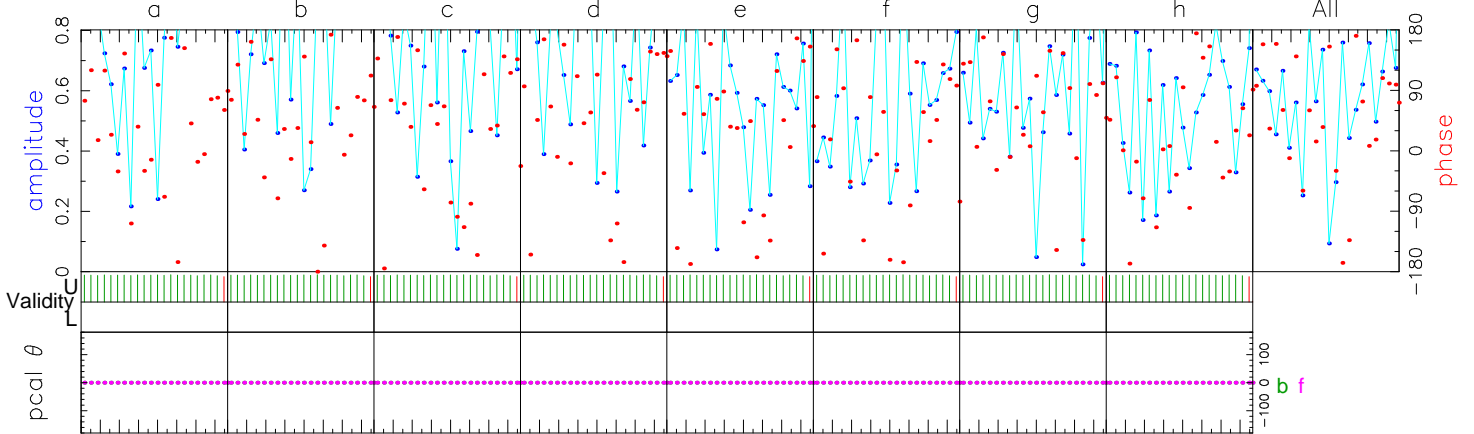


delay rate (ns/s)



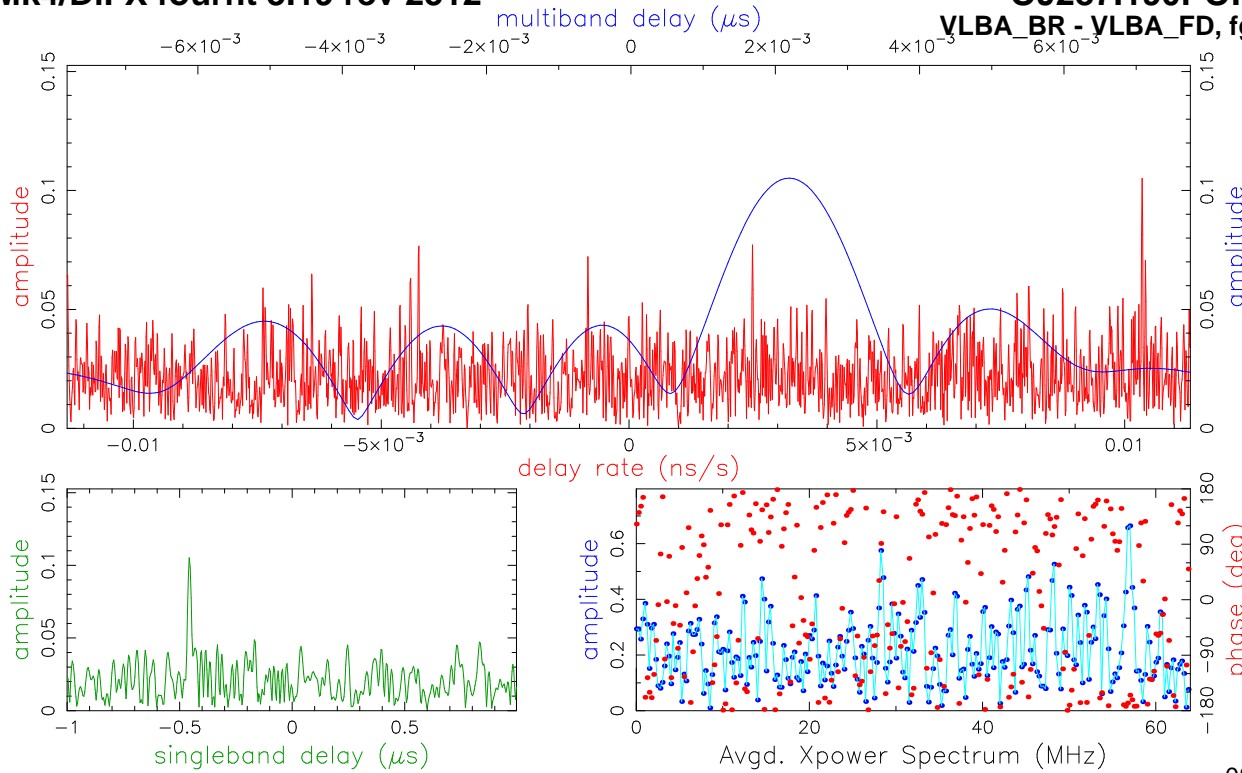
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210516
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.16980232212E+03								6.84727E-04	+/- 7.2E-05
Sband delay (usec)	-3.16980155060E+03								1.45625E-03	+/- 5.7E-04
Phase delay (usec)	-3.16980300424E+03								2.60482E-06	+/- 2.4E-07
Delay rate (us/s)	-2.10714958683E-01								5.40778E-08	+/- 9.6E-10
Total phase (deg)			77.3						80.8	+/- 7.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 75.3 18.2 Search (2048X32) 0.259 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 133.0 31.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.9 10.7 Inc. seg. avg. 0.543 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.4 18.7 Inc. frq. avg. 0.283 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 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.4.190POF

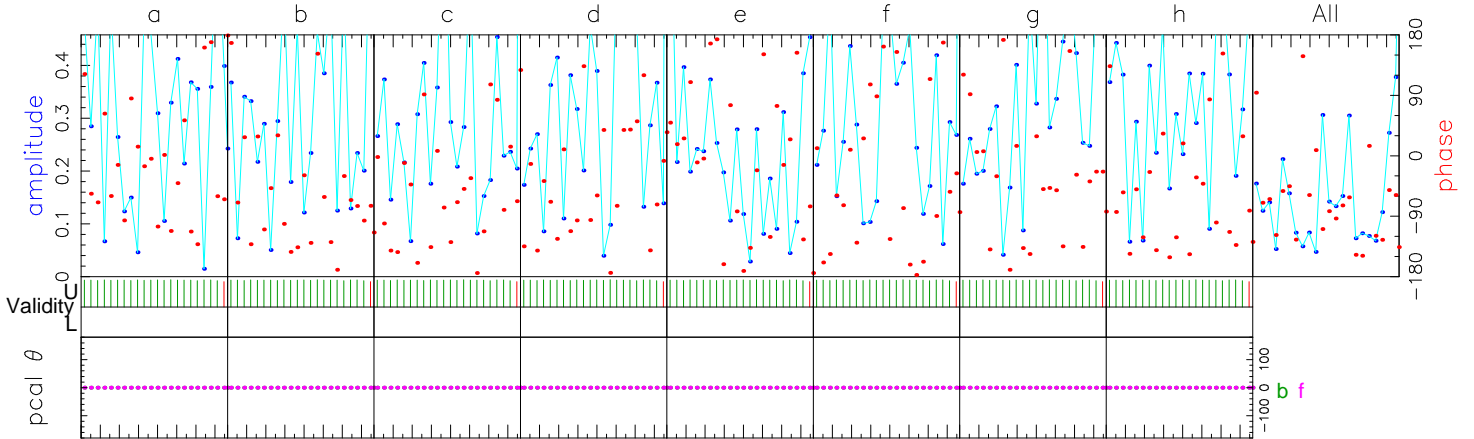


Fringe quality 0

SNR 6.0
Int time 427.908
Amp 0.153
Phase -75.3
PFD 4.8e-01
Delays (us)
SBD -0.456542
MBD 0.002221
Fringe rate (Hz)
0.892798
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

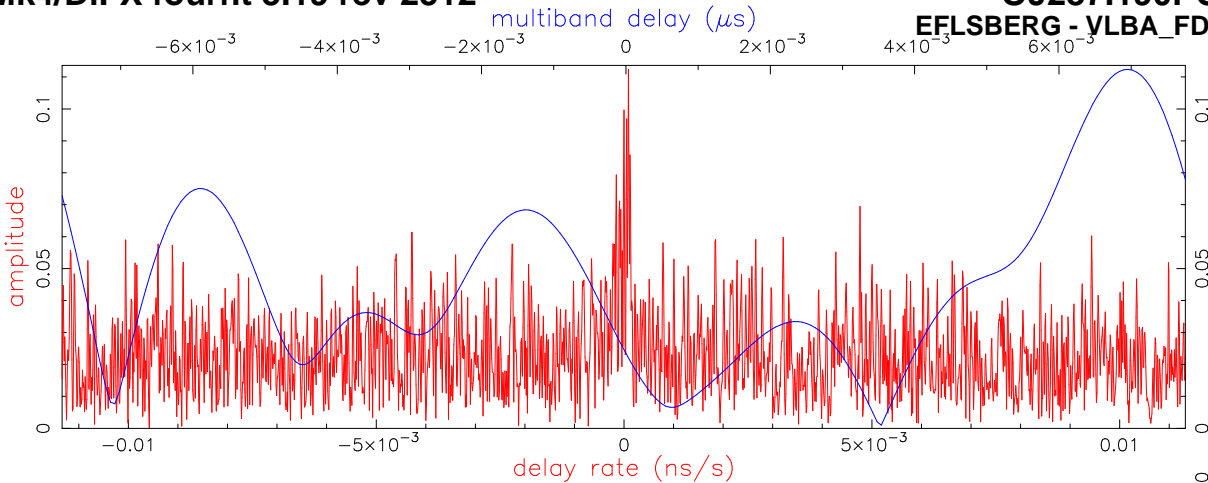
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210526
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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

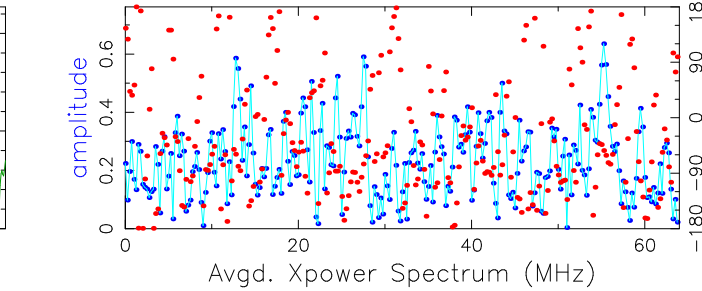
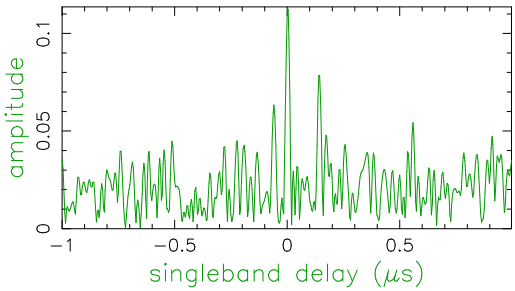


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-60.8	-98.2	-65.2	-64.5	-5.5	-129.0	-49.7	-83.3	Phase	-75.3
	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	237.6	137.4	223.3	437.0	60.7	357.5	472.7	169.1	Sbd box	140.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.17025391106E+03		Apriori delay (usec)		-3.16980300685E+03		Resid mbdelay (usec)		2.22079E-03	+/- 1.8E-04
Sband delay (usec)	-3.17025954835E+03		Apriori clock (usec)		-5.3186212E+00		Resid sbdelay (usec)		-4.56542E-01	+/- 1.4E-03
Phase delay (usec)	-3.16980300927E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		-2.42860E-06	+/- 6.2E-07
Delay rate (us/s)	-2.10704648258E-01		Apriori rate (us/s)		-2.10715012761E-01		Resid rate (us/s)		1.03645E-05	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.59085706554E-05		Resid phase (deg)		-75.3	+/- 19.2

ph/seg (deg) 62.5 46.1 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.3 80.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.6 27.2 Inc. seg. avg. 0.162 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.3 47.5 Inc. frq. avg. 0.154 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.50.190POF

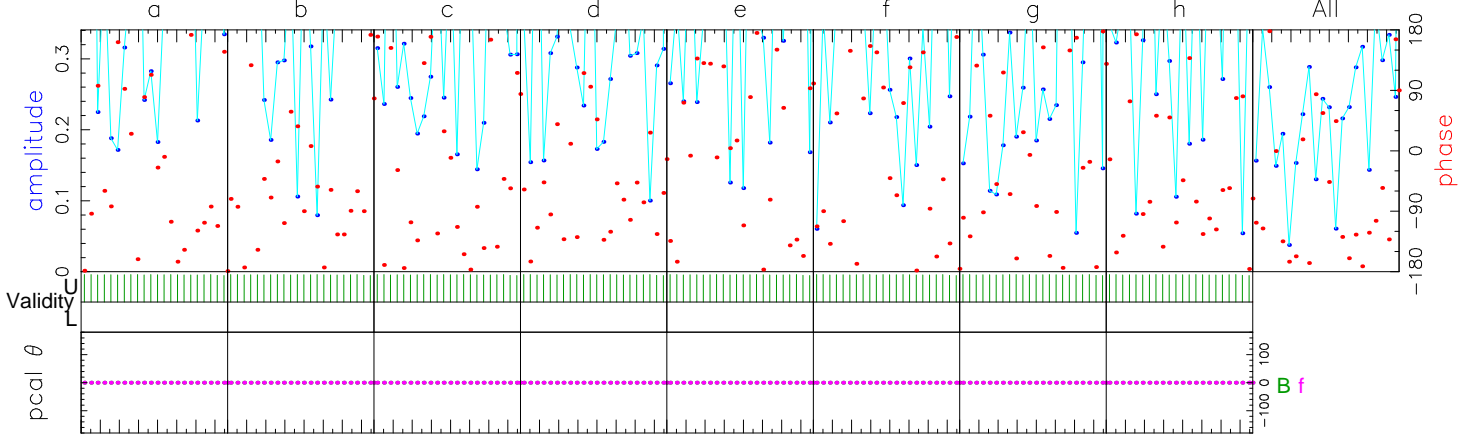


Fringe quality 0
SNR 6.5
Int time 435.108
Amp 0.114
Phase -130.5
PFD 2.5e-02
Delays (us)
SBD 0.002439
MBD 0.006966
Fringe rate (Hz) 0.007563
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210527
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"



Avgd. Xpower Spectrum (MHz)

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

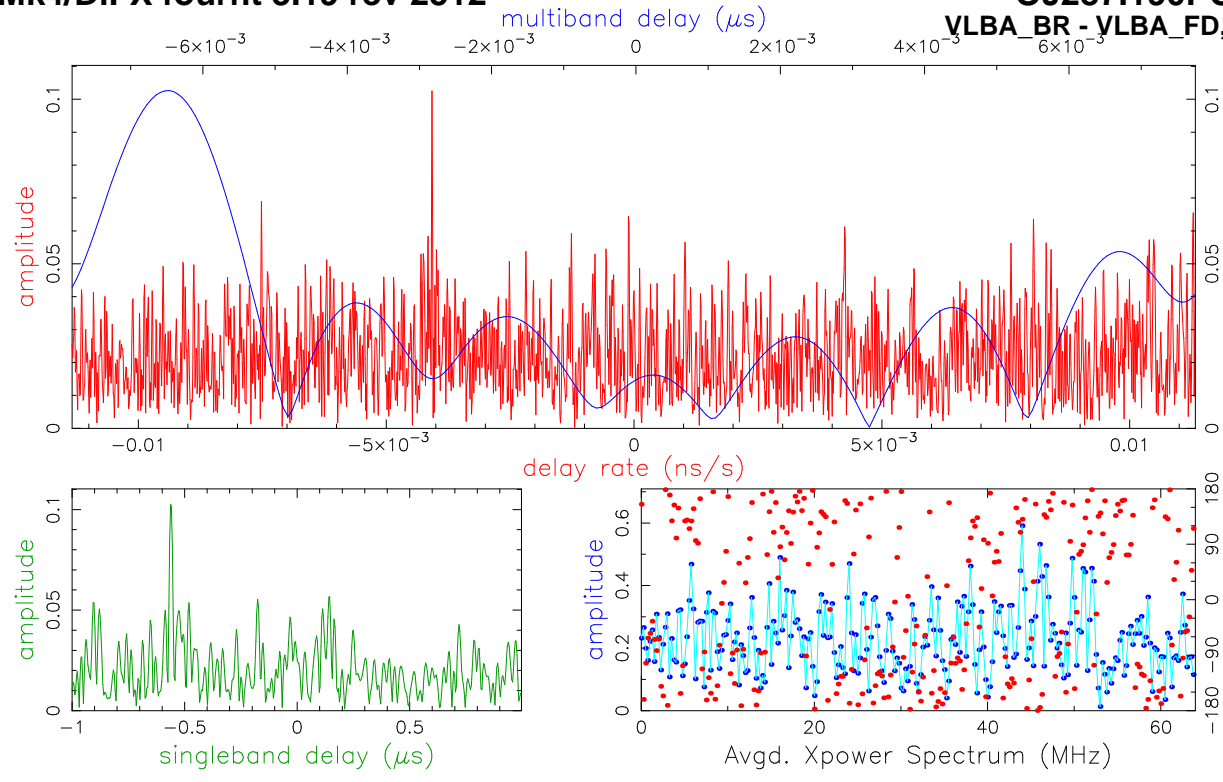


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-133.6	-100.4	-157.9	-83.6	154.5	-172.7	-150.9	-87.1	Phase	-130.5
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	257.4	258.2	293.8	286.3	346.5	63.8	157.7	393.3	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.85901639245E+03	Apriori delay (usec)	5.85900942636E+03	Resid mbdelay (usec)	6.96609E-03	+/-	1.7E-04
Sband delay (usec)	5.85901186486E+03	Apriori clock (usec)	9.1324768E+00	Resid sbdelay (usec)	2.43850E-03	+/-	1.3E-03
Phase delay (usec)	5.85900942215E+03	Apriori clockrate (us/s)	-3.0900000E-07	Resid phdelay (usec)	-4.20986E-06	+/-	5.7E-07
Delay rate (us/s)	-1.78463865633E+00	Apriori rate (us/s)	-1.78463874413E+00	Resid rate (us/s)	8.78002E-08	+/-	2.2E-09
Total phase (deg)	224.7	Apriori accel (us/s/s)	-2.09693946267E-05	Resid phase (deg)	-130.5	+/-	17.7

ph/seg (deg)	82.0	Theor.	42.4	Amplitude	0.114 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	125.9	Search (2048X32)	0.111	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	47.5	Inc. seg. avg.	0.176	Inc. seg. avg.	0.176	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.8	Inc. frq. avg.	0.132	Inc. frq. avg.	0.132	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	

B: az 239.9 el 46.7 pa 35.9 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 10839.565 1523.381 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bf..190POF Output file: /Exps/c201c/v1/1234/No0032/Bf.W.52.190POF

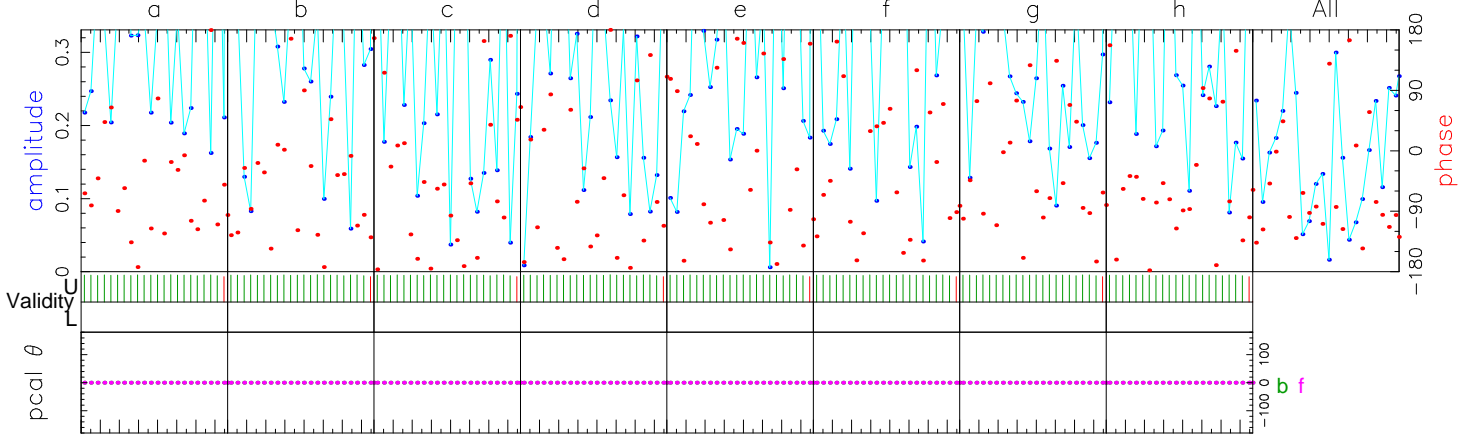


Fringe quality 0

SNR 5.9
Int time 427.909
Amp 0.110
Phase -92.0
PFD 5.8e-01
Delays (us)
SBD -0.560764
MBD -0.006440
Fringe rate (Hz)
-0.351642
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

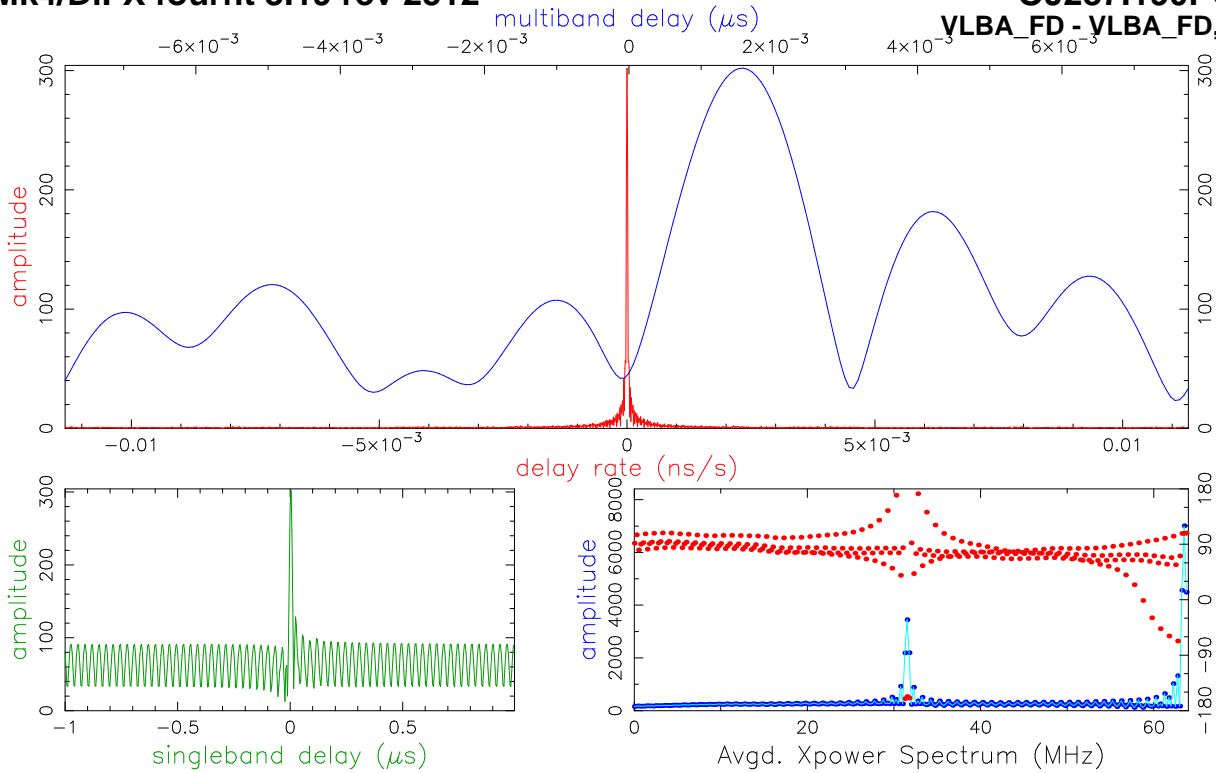


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-76.8	-84.4	-103.7	-124.6	-109.8	-116.9	-66.2	-87.1	Phase	-92.0
	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	Ampl.	0.1
	113.7	378.8	441.7	90.7	414.0	440.3	358.9	172.6	Sbd box	113.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.17035632150E+03		Apriori delay (usec)		-3.16980300685E+03		Resid mbdelay (usec)		-6.43965E-03	+/- 1.8E-04
Sband delay (usec)	-3.17036377110E+03		Apriori clock (usec)		-5.3186212E+00		Resid sbdelay (usec)		-5.60764E-01	+/- 1.5E-03
Phase delay (usec)	-3.16980300981E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		-2.96783E-06	+/- 6.3E-07
Delay rate (us/s)	-2.10719094980E-01		Apriori rate (us/s)		-2.10715012761E-01		Resid rate (us/s)		-4.08222E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.59085706554E-05		Resid phase (deg)		-92.0	+/- 19.4

ph/seg (deg) 67.5 46.5 Amplitude 0.110 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 100.9 81.1 Search (2048X32) 0.097 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.8 27.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.1 47.8 Inc. seg. avg. 0.129 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.102 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 1324.436 2691.445 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bf..190POF Output file: /Exps/c201c/v1/1234/No0032/bf.W.69.190POF

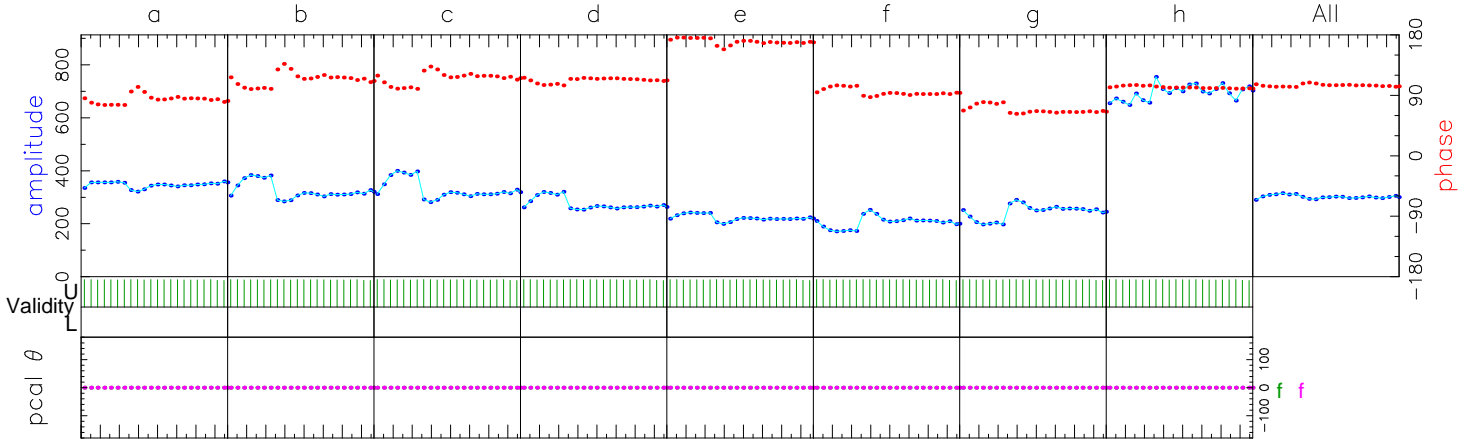


Fringe quality 5

SNR 17363.3
Int time 435.173
Amp 304.370
Phase 104.7
PFD 0.0e+00
Delays (us)
SBD 0.002915
MBD 0.001601
Fringe rate (Hz) 0.000017
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
2020:202:210540
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



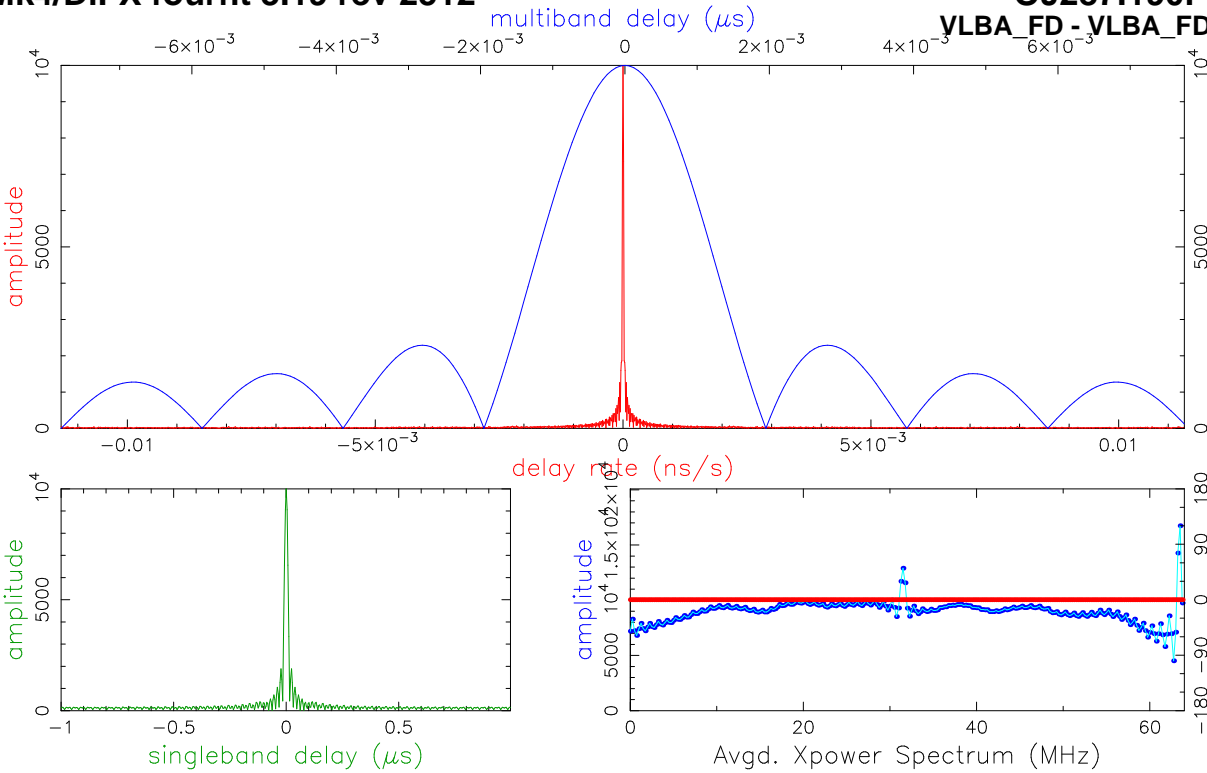
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000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

Group delay (usec)(sbd)	1.60121875000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.60122E-03	+/-	6.3E-08
Sband delay (usec)	2.91475000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	2.91475E-03	+/-	5.0E-07
Phase delay (usec)	3.37710319098E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.37710E-06	+/-	2.1E-10
Delay rate (us/s)	2.01938921582E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.01939E-10	+/-	8.4E-13
Total phase (deg)	104.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	104.7	+/-	0.0

ph/seg (deg)	1.7	Theor.	Amplitude	304.370 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	2.3	0.0	Search (2048X32)	300.273	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	32.7	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	48.7	0.0	Inc. seg. avg.	302.046	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	328.814	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

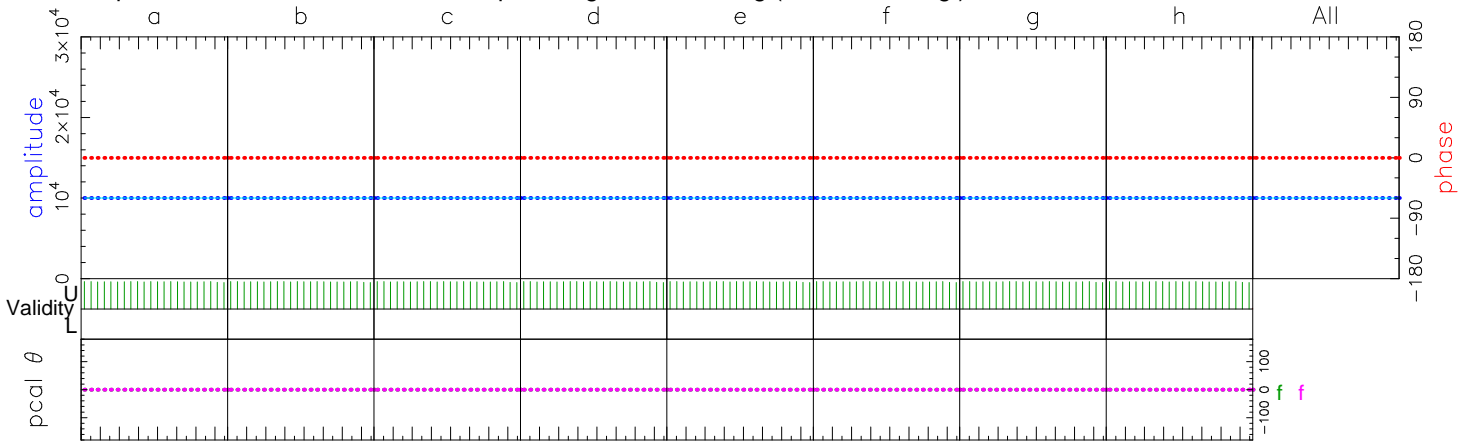
f: az 80.8 el 25.4 pa -64.7 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ff..190POF Output file: /Exps/c201c/v1/1234/No0032/ff.W.102.190POF



Fringe quality 9
SNR 570465.2
Int time 435.173
Amp 10000.011
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
2020:202:210529
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

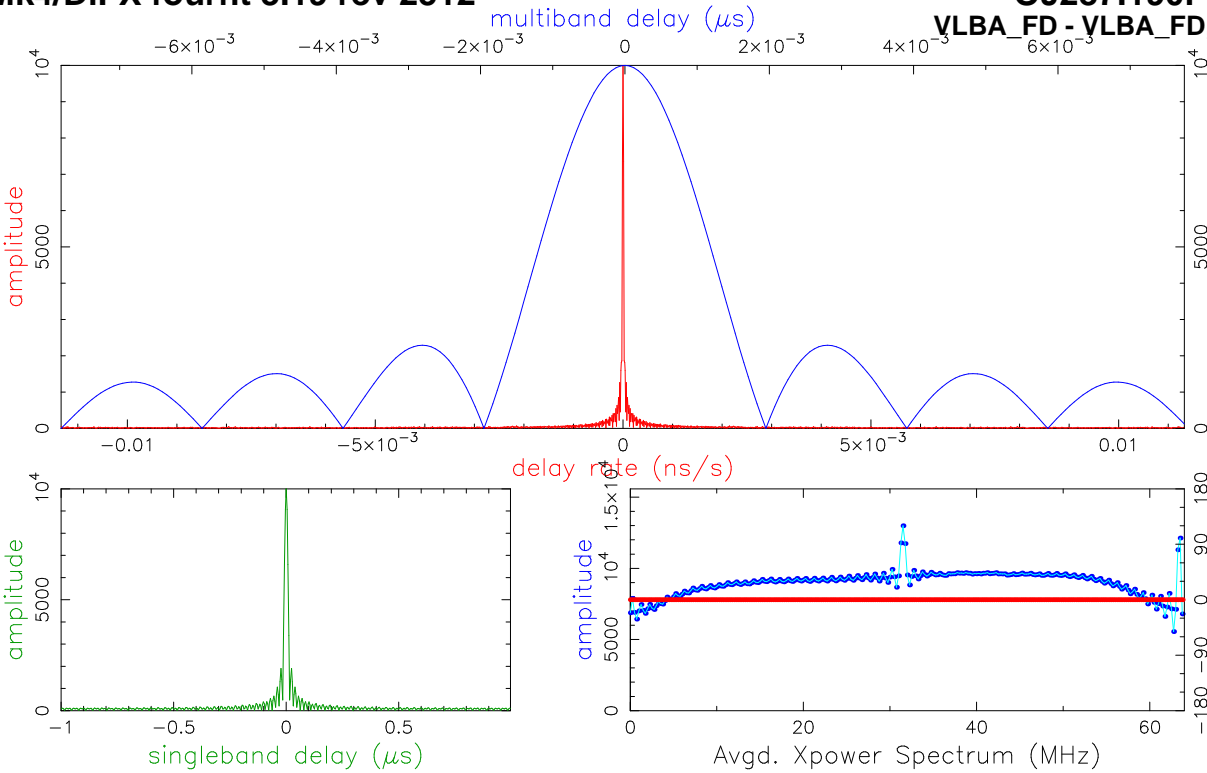
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

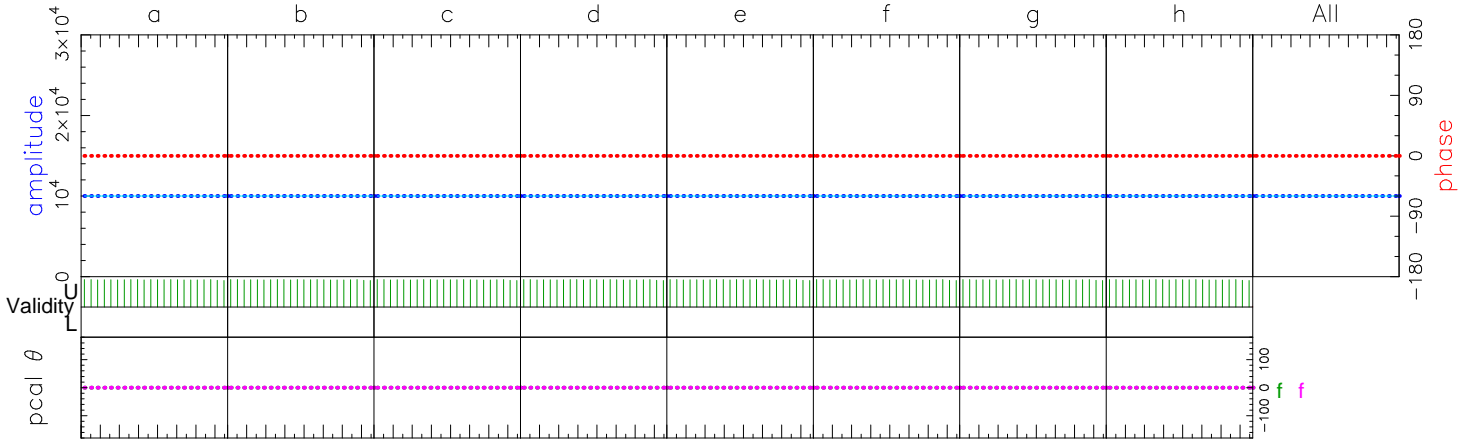
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	6.63296790523E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.63297E-20	+/-	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

ph/seg (deg)	0.0	RMS	0.0	Theor.	0.0	Amplitude	10000.011 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0		0.0		0.0	Search (2048X32)	10000.011	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0		0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0		0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	10000.011	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



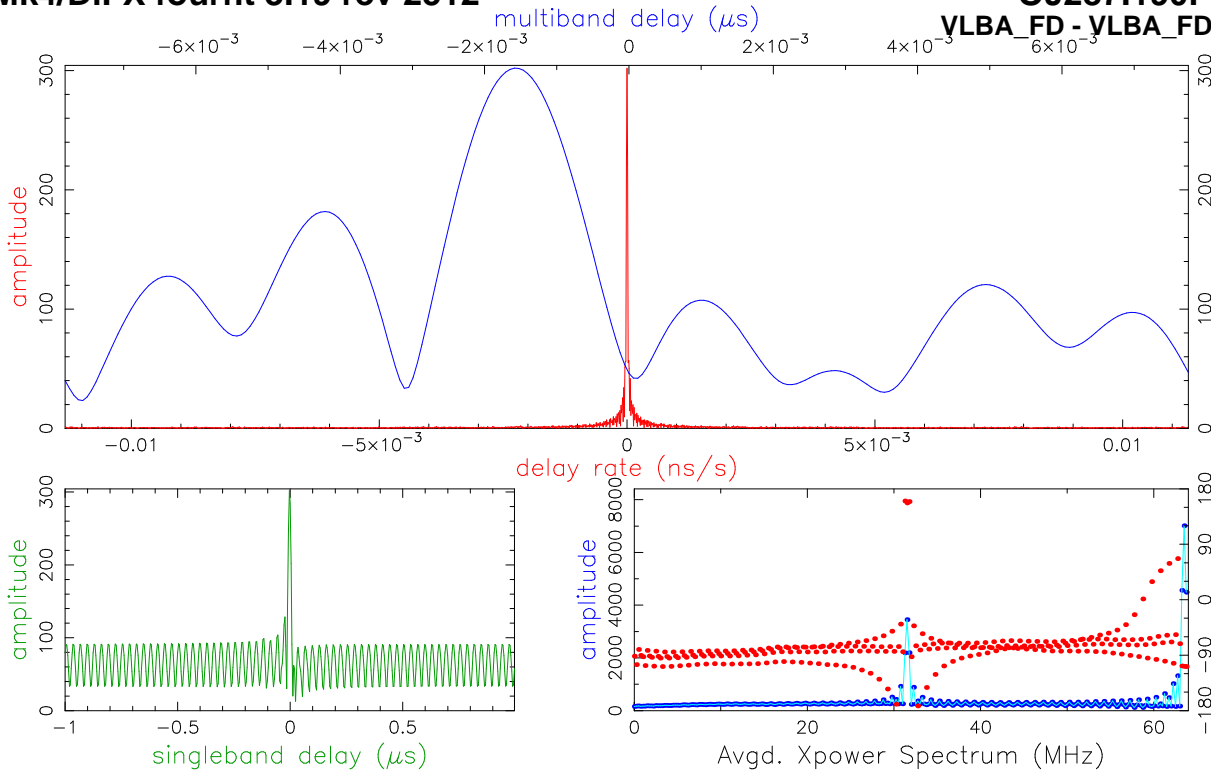
Fringe quality 9
SNR 570464.9
Int time 435.173
Amp 10000.008
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210533
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	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
f	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
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)	4.63158861610E-20	4.63158861610E-20	4.63158861610E-20	4.63158861610E-20	4.63158861610E-20	4.63158861610E-20	4.63158861610E-20	4.63158861610E-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	+/- 0.0

RMS Theor. Amplitude 10000.009 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.009 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.009 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 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ff..190POF Output file: /Exps/c201c/v1/1234/No0032/ff.W.78.190POF

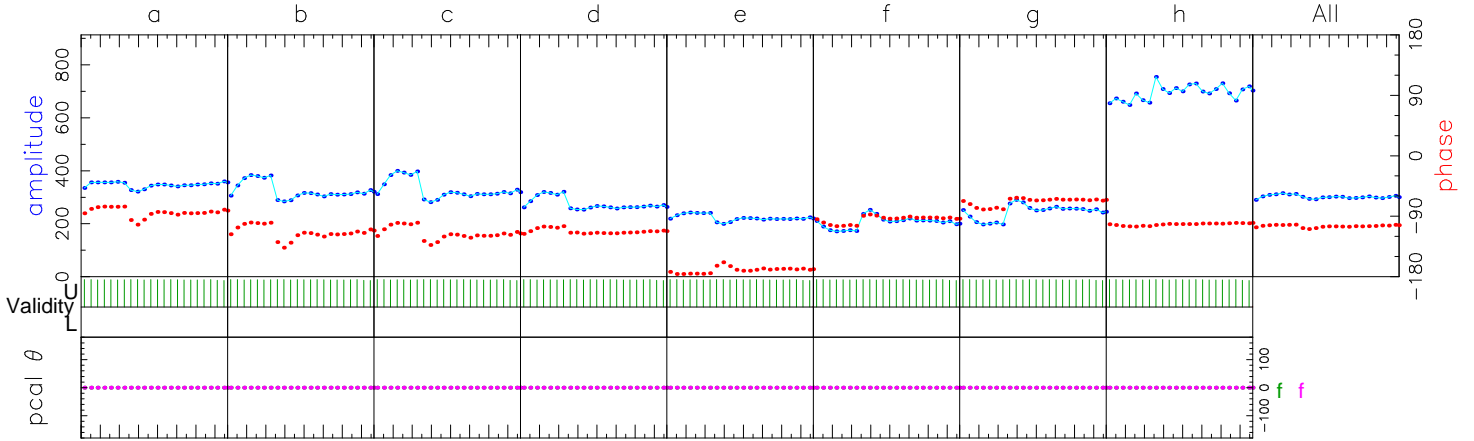


Fringe quality 5

SNR 17363.2
Int time 435.173
Amp 304.370
Phase -104.7
PFD 0.0e+00
Delays (us)
SBD -0.002915
MBD -0.001601
Fringe rate (Hz)
-0.000017
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
2020:202:210536
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

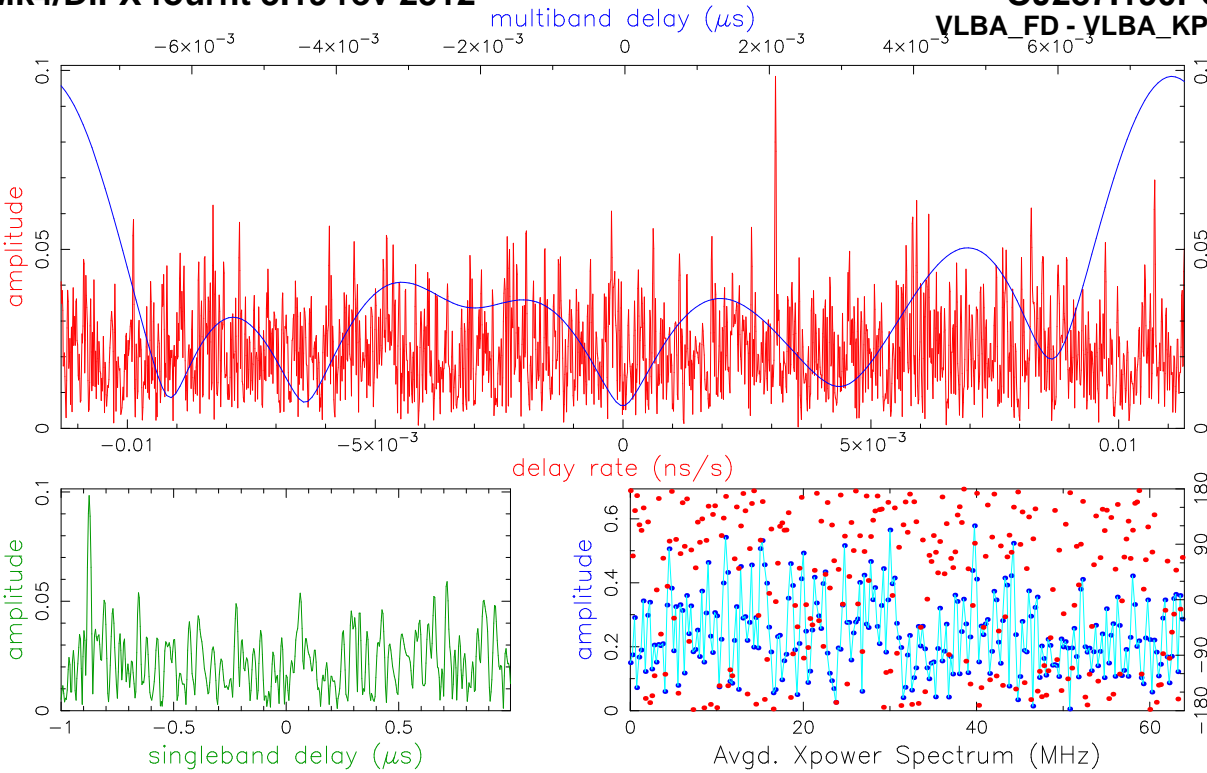


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-84.0	-113.0	-114.4	-112.0	-170.2	-94.3	-68.0	-102.0	Phase	-104.7
	344.4	320.8	325.4	274.8	222.1	204.7	243.8	694.5	Ampl.	328.8
	256.3	256.4	256.5	256.6	250.9	256.9	256.5	255.6	Sbd box	256.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.60121875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.60122E-03	+/- 6.3E-08
Sband delay (usec)	-2.91475000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-2.91475E-03	+/- 5.0E-07
Phase delay (usec)	-3.37710319095E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.37710E-06	+/- 2.1E-10
Delay rate (us/s)	-2.01938921582E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.01939E-10	+/- 8.4E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-104.7	+/- 0.0

ph/seg (deg) 1.7 0.0 Theor. Amplitude 304.370 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.3 0.0 Search (2048X32) 300.272 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.7 0.0 Inc. seg. avg. 302.045 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ff..190POF Output file: /Exps/c201c/v1/1234/No0032/ff.W.87.190POF simultaneous interpolator

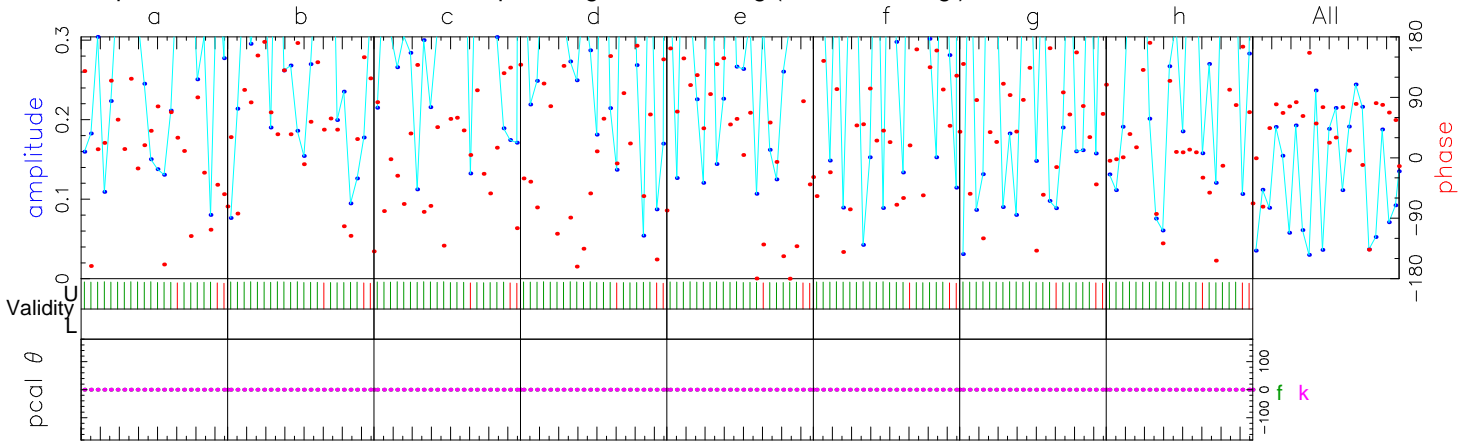
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fk
VLBA_FD - VLBA_KP, fgroup W, pol LR



Fringe quality 0
SNR 5.6
Int time 427.009
Amp 0.101
Phase 51.5
PFD 1.0e+00
Delays (us)
SBD -0.875160
MBD 0.007571
Fringe rate (Hz)
0.265922
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
2020:202:210543
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

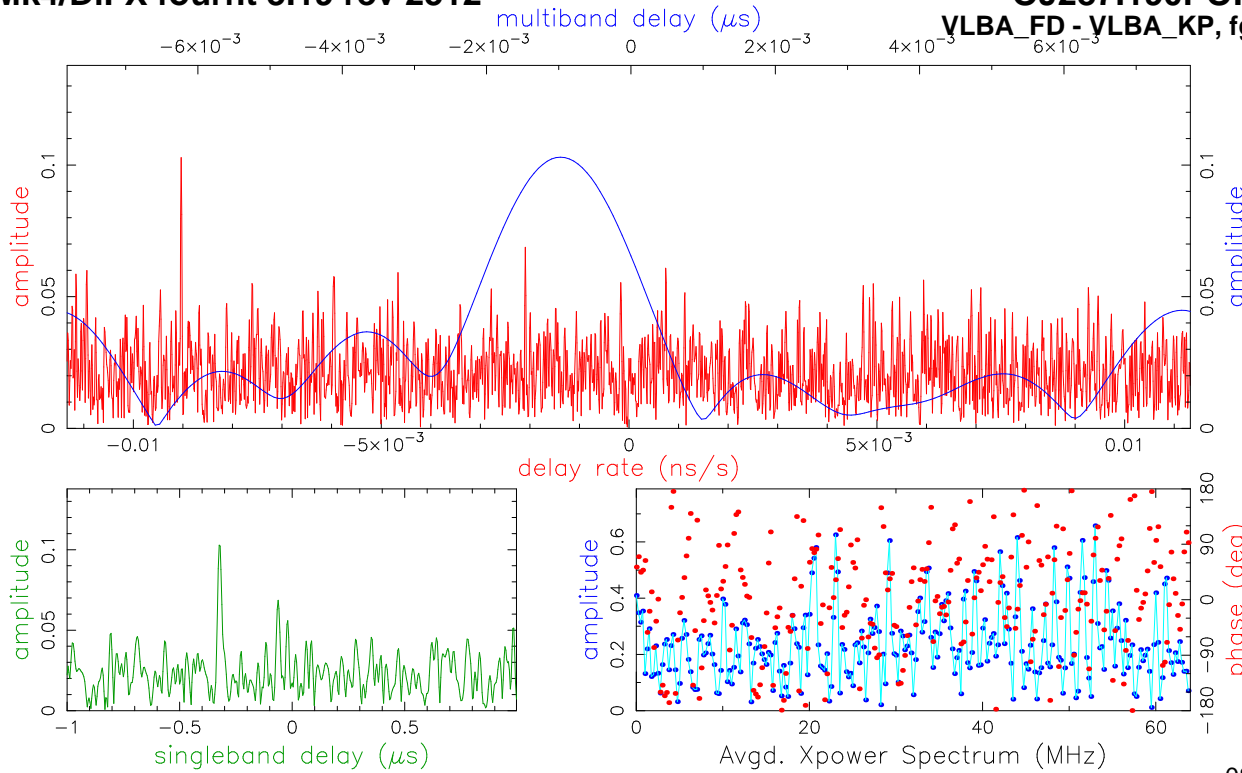


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
k	1000	1000	1000	1000	1000	1000	1000	1000			
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
k	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		2.12553375175E+03			2.12640118118E+03				7.57057E-03	+/- 2.0E-04	
Sband delay (usec)		2.12552602143E+03			4.2509508E+00				-8.75160E-01	+/- 1.6E-03	
Phase delay (usec)		2.12640118284E+03			1.0360000E-07				1.66140E-06	+/- 6.6E-07	
Delay rate (us/s)		-2.84780904876E-02			-2.84811775782E-02				3.08709E-06	+/- 2.6E-09	
Total phase (deg)			320.3		-1.20456594058E-05				51.5	+/- 20.6	
	RMS	Theor.	Amplitude	0.101 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5		
ph/seg (deg)	57.2	49.4	Search (2048X32)	0.097	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000	
amp/seg (%)	79.8	86.3	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	36.9	29.2	Inc. seg. avg.	0.096	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011	
amp/frq (%)	28.2	50.9	Inc. frq. avg.	0.106	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00	

f: az 80.8 el 25.4 pa -64.7 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.115.190POF

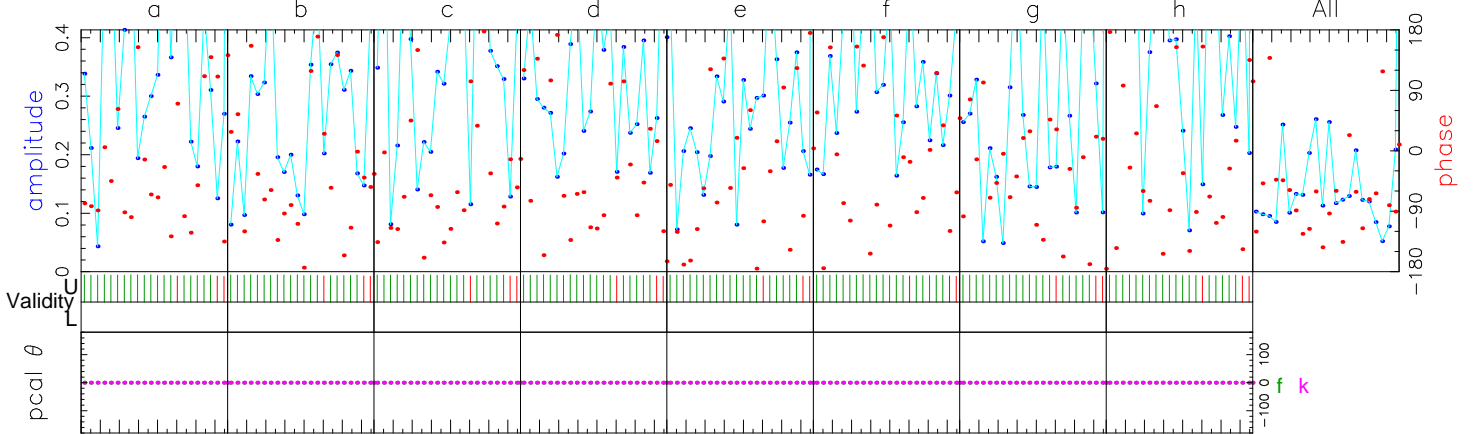
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fk
VLBA_FD - VLBA_KP, fgroup W, pol RL



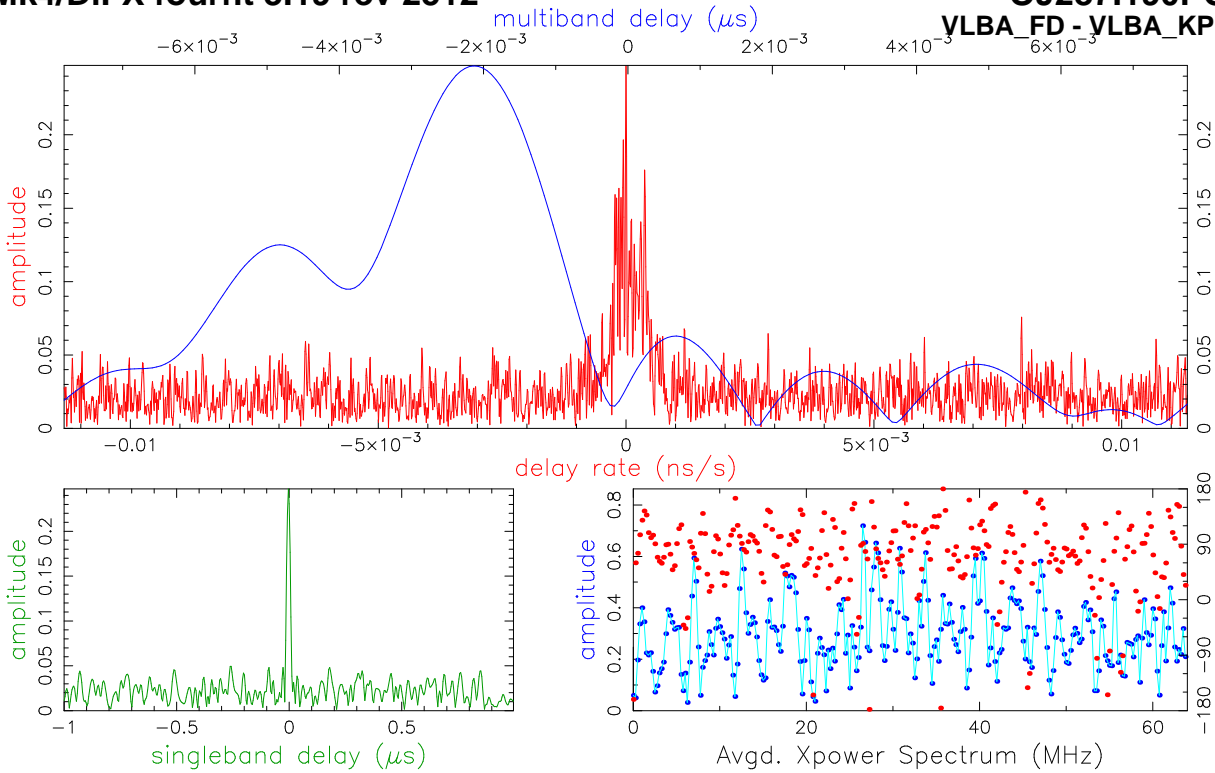
Fringe quality 0
SNR 5.9
Int time 427.008
Amp 0.138
Phase -81.9
PFD 6.0e-01
Delays (us)
SBD -0.322423
MBD -0.000913
Fringe rate (Hz)
-0.779090
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
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
	-63.8	-95.2	-76.0	-101.6	-80.8	-102.8	-47.1	-96.1	Phase	-81.9
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	65.7	475.7	345.7	37.3	218.1	289.3	216.9	49.4	Sbd box	174.5
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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.12607214355E+03		Apriori delay (usec)		2.12640118118E+03		Resid mbdelay (usec)		-9.12624E-04	+/- 1.8E-04
Sband delay (usec)	2.12607875793E+03		Apriori clock (usec)		4.2509508E+00		Resid sbdelay (usec)		-3.22423E-01	+/- 1.5E-03
Phase delay (usec)	2.12640117854E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		-2.64083E-06	+/- 6.3E-07
Delay rate (us/s)	-2.84902220449E-02		Apriori rate (us/s)		-2.84811775782E-02		Resid rate (us/s)		-9.04447E-06	+/- 2.5E-09
Total phase (deg)	186.8		Apriori accel (us/s/s)		-1.20456594058E-05		Resid phase (deg)		-81.9	+/- 19.4

ph/seg (deg) 58.5 46.5 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.4 81.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 21.5 27.4 Inc. seg. avg. 0.139 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 28.0 47.9 Inc. frq. avg. 0.128 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 80.8 el 25.4 pa -64.7 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.135.190POF

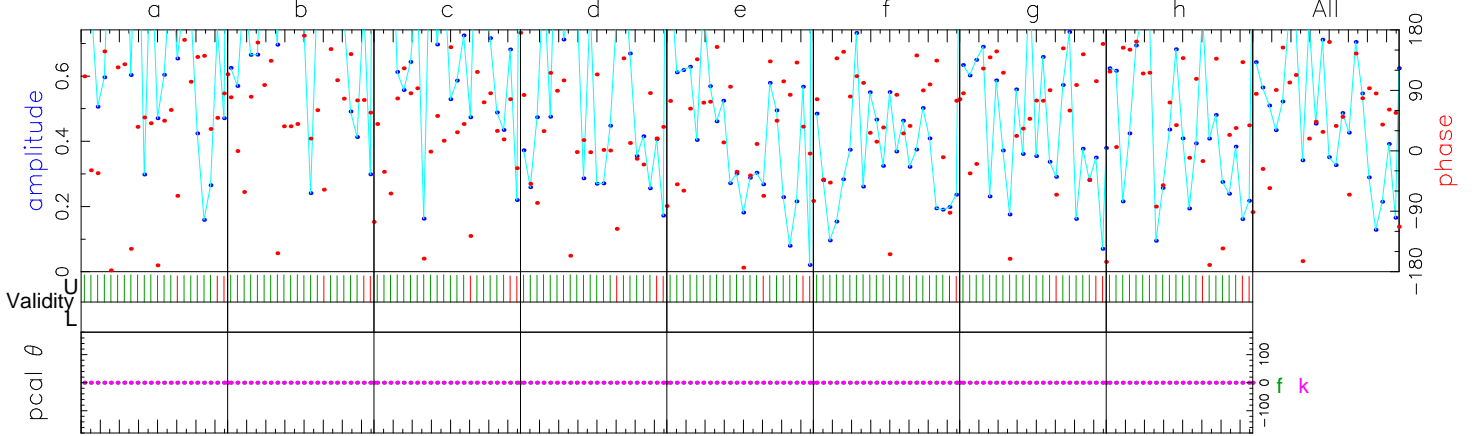


Fringe quality 9

SNR 14.0
Int time 427.008
Amp 0.247
Phase 72.0
PFD $1.3\text{e-}35$
Delays (us)
SBD -0.003419
MBD -0.002124
Fringe rate (Hz)
-0.000276
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



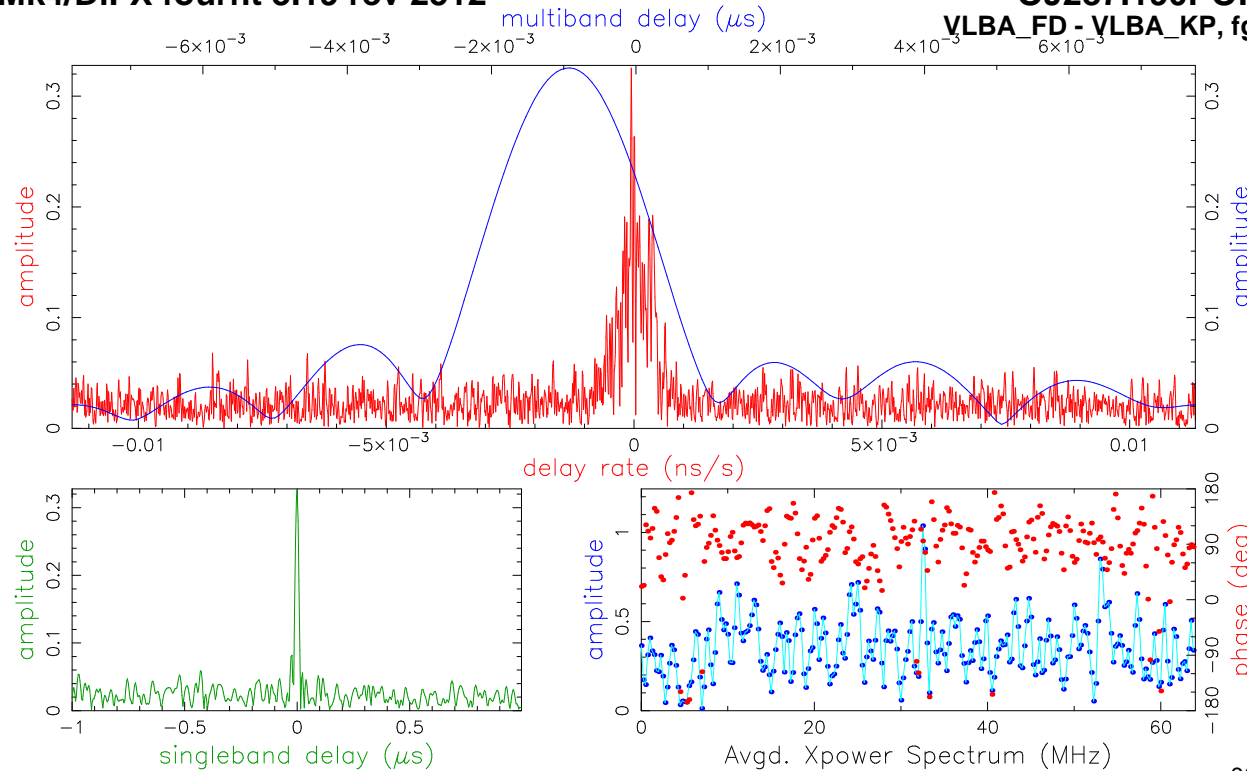
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	98.3	79.1	49.0	39.0	56.0	76.7	76.4	98.1	Phase	72.0
	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	Ampl.	0.3
	256.8	255.8	256.7	256.8	256.1	255.2	255.8	255.0	Sbd box	256.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.12639905758E+03	Apriori delay (usec)	2.12640118118E+03	Resid mbdelay (usec)	-2.12359E-03	+/-	7.8E-05
Sband delay (usec)	2.12639776193E+03	Apriori clock (usec)	4.2509508E+00	Resid sbdelay (usec)	-3.41925E-03	+/-	6.2E-04
Phase delay (usec)	2.12640118350E+03	Apriori clockrate (us/s)	1.0360000E-07	Resid phdelay (usec)	2.32217E-03	+/-	2.6E-07
Delay rate (us/s)	-2.84811807873E-02	Apriori rate (us/s)	-2.84811775782E-02	Resid rate (us/s)	-3.20906E-09	+/-	1.0E-09
Total phase (deg)	340.8	Apriori accel (us/s/s)	-1.20456594058E-05	Resid phase (deg)	72.0	+/-	8.2

ph/seg (deg)	65.2	RMS	19.7	Theor.	19.7	Amplitude	0.247 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	122.1	65.2	34.3	Search (2048X32)	0.240	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	23.6	23.6	11.6	Inc. seg. avg.	0.454	Inc. frq. avg.	0.258	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	32.6	32.6	20.2	Inc. frq. avg.	0.258	Sample rate (MSamp/s):	128	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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.80.190POF

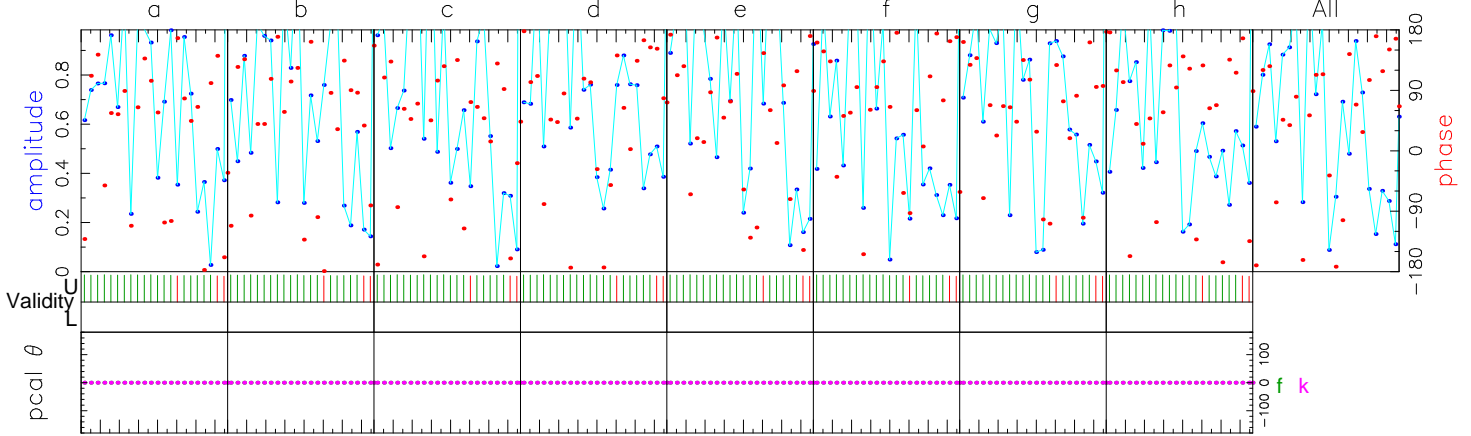


Fringe quality 9

SNR 18.5
Int time 427.009
Amp 0.328
Phase 95.3
PFD 0.0e+00
Delays (us)
SBD -0.001113
MBD -0.000964
Fringe rate (Hz)
-0.005063
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

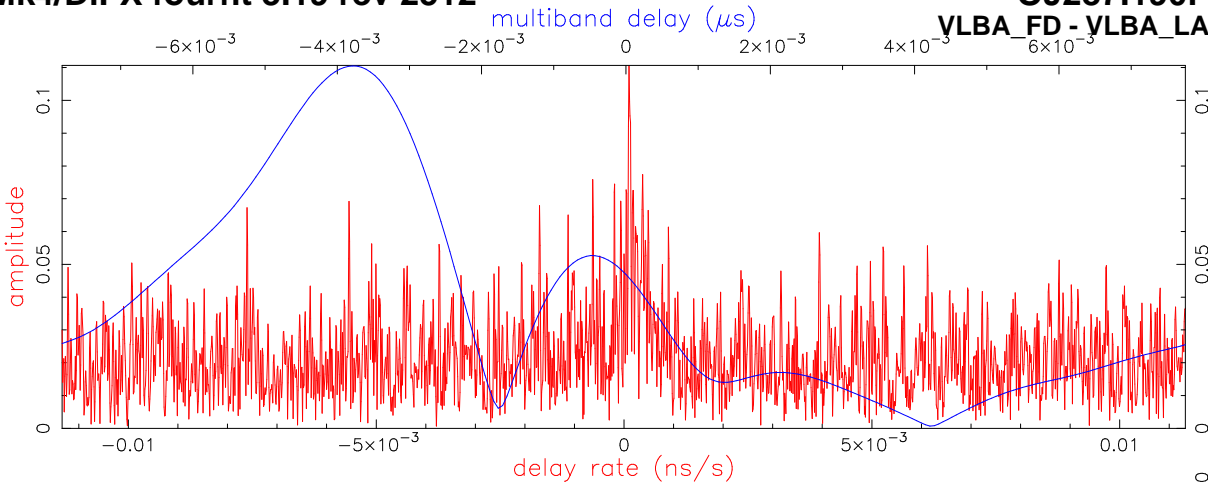
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210538
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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

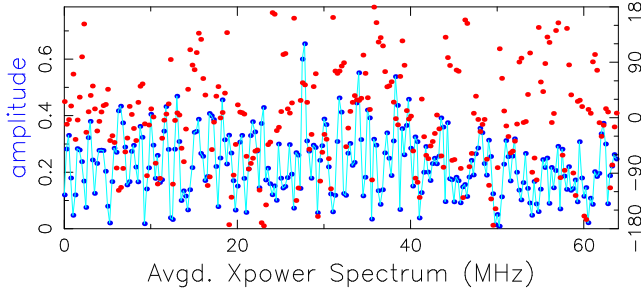
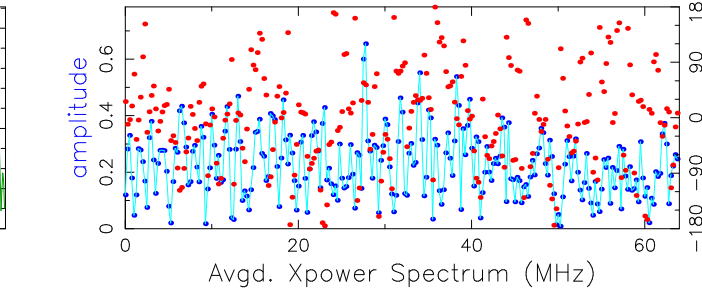
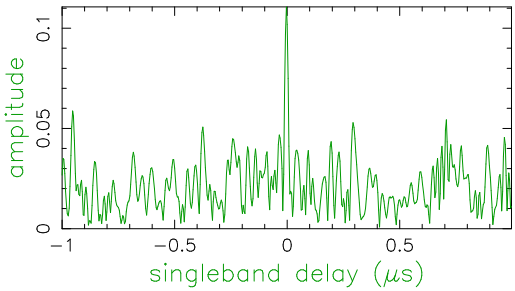


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.12640021679E+03		Apriori delay (usec)		2.12640118118E+03		Resid mbdelay (usec)		-9.64383E-04	+/- 5.9E-05
Sband delay (usec)	2.12640006843E+03		Apriori clock (usec)		4.2509508E+00		Resid sbdelay (usec)		-1.11275E-03	+/- 4.7E-04
Phase delay (usec)	2.12640118425E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		3.07321E-06	+/- 2.0E-07
Delay rate (us/s)	-2.84812363502E-02		Apriori rate (us/s)		-2.84811775782E-02		Resid rate (us/s)		-5.87720E-08	+/- 7.9E-10
Total phase (deg)	4.0		Apriori accel (us/s/s)		-1.20456594058E-05		Resid phase (deg)		95.3	+/- 6.2

ph/seg (deg) 77.9 14.8 Search (2048X32) 0.317 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 132.9 25.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.5 8.7 Inc. seg. avg. 0.592 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.9 15.3 Inc. frq. avg. 0.325 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.92.190POF

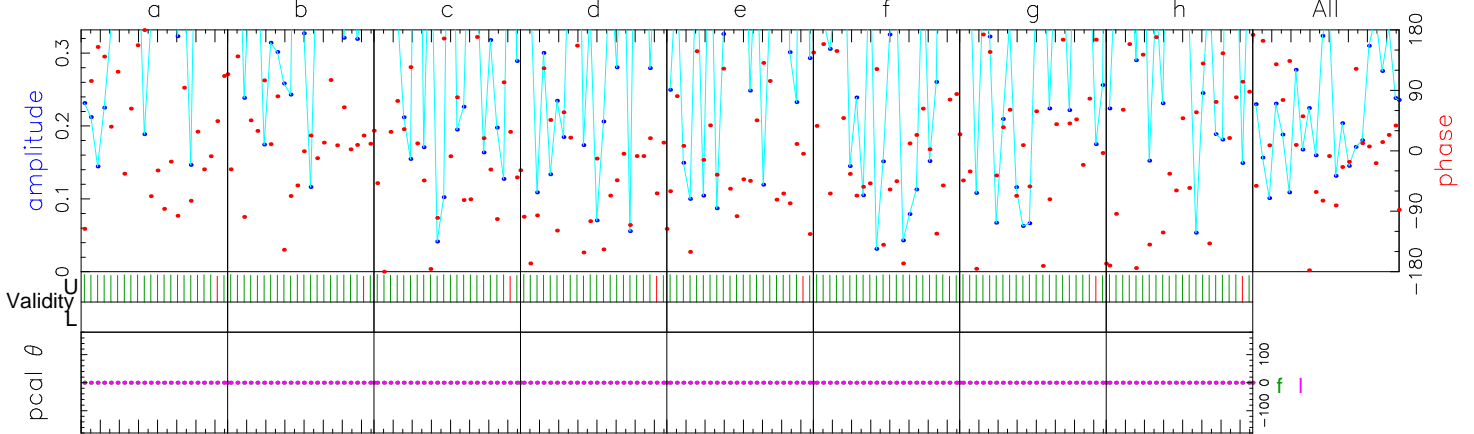


Fringe quality 0
SNR 6.3
Int time 429.210
Amp 0.111
Phase 3.5
PFD 9.3e-02
Delays (us)
SBD -0.003482
MBD -0.003782
Fringe rate (Hz) 0.009001
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210544
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

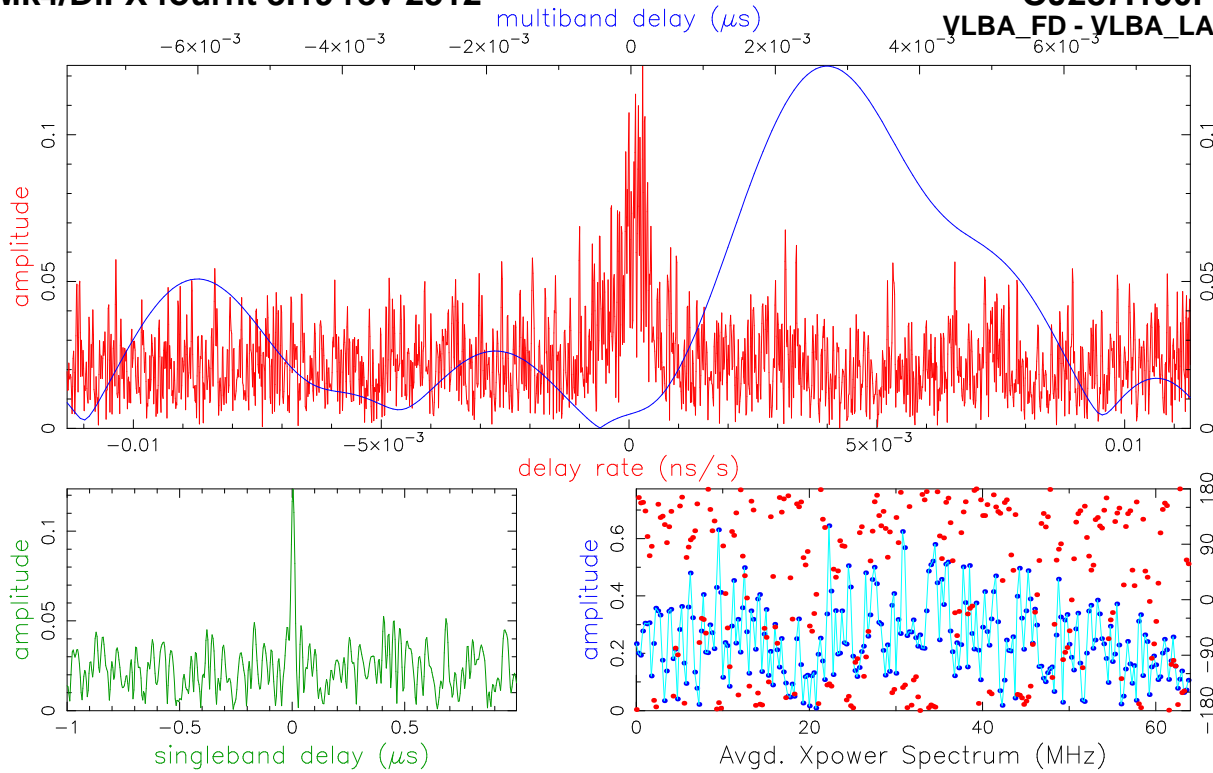


Avgd. Xpower Spectrum (MHz)

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			
f	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		4.08113644123E+02			4.08117426358E+02				Resid mbdelay (usec)	-3.78223E-03	+/- 1.7E-04
Sband delay (usec)		4.08113944858E+02			7.6235595E+00				Resid sbdelay (usec)	-3.48150E-03	+/- 1.4E-03
Phase delay (usec)		4.08117426470E+02			2.6000000E-07				Resid phdelay (usec)	1.12752E-07	+/- 5.9E-07
Delay rate (us/s)		5.21689342047E-02			5.21688297130E-02				Resid rate (us/s)	1.04492E-07	+/- 2.3E-09
Total phase (deg)			41.8		-5.02870746522E-06				Resid phase (deg)	3.5	+/- 18.3
RMS	78.6	43.8		0.111 +/- 0.018					PCal mode: MANUAL, MANUAL		
ph/seg (deg)	78.6	43.8		0.106					PCal rate: 0.000E+00, 0.000E+00 (us/s)		
amp/seg (%)	121.8	76.5		0.000					Search (2048X32)		
ph/frq (deg)	46.6	25.8		0.171					Bits/sample: 2x2		
amp/frq (%)	55.4	45.1		0.113					SampCntNorm: enabled		
f: az 80.8 el 25.4 pa -64.7									Sample rate(MISamp/s): 128		
l: az 82.1 el 24.3 pa -58.9									Data rate(Mb/s): 2048		
u,v (fr/asec) -325.390 -766.793									nlags: 256 t_cohere infinite		
Control file: cf_1234_gmva									ion window (TEC)	0.00	0.00
Input file: /Exps/c201c/v1/1234/No0032/fl..190POF											
Output file: /Exps/c201c/v1/1234/No0032/fl.W.116.190POF											

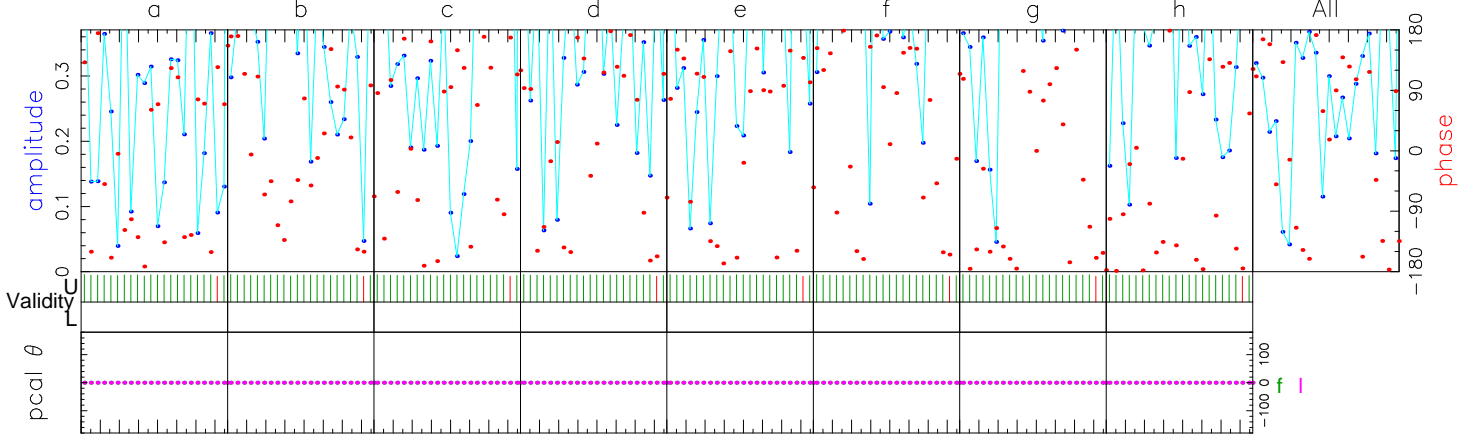


Fringe quality 0

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



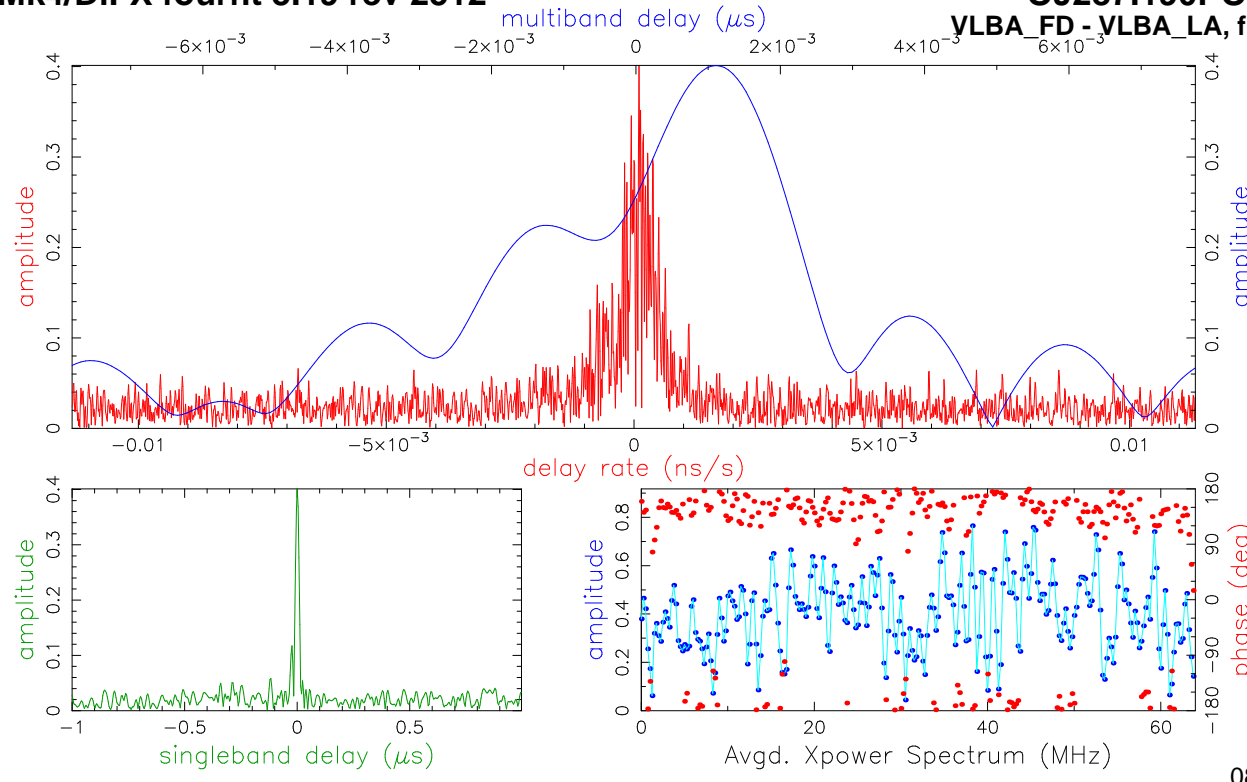
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-166.6	6.6	168.2	160.4	143.2	165.8	166.4	-167.0	Phase	166.4
	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	164.8	225.1	255.0	471.9	258.1	251.8	258.9	259.0	Sbd box	257.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	mb window (us) -0.008 0.008
amp/frq (%)	52.2	Inc. frq. avg.	0.124			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

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

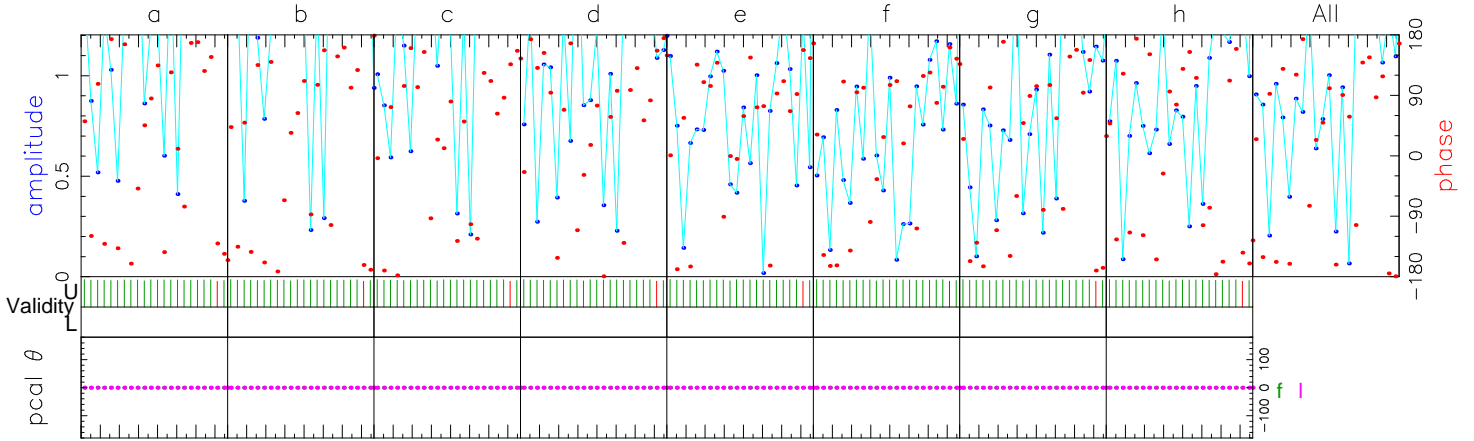


Fringe quality 8

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"

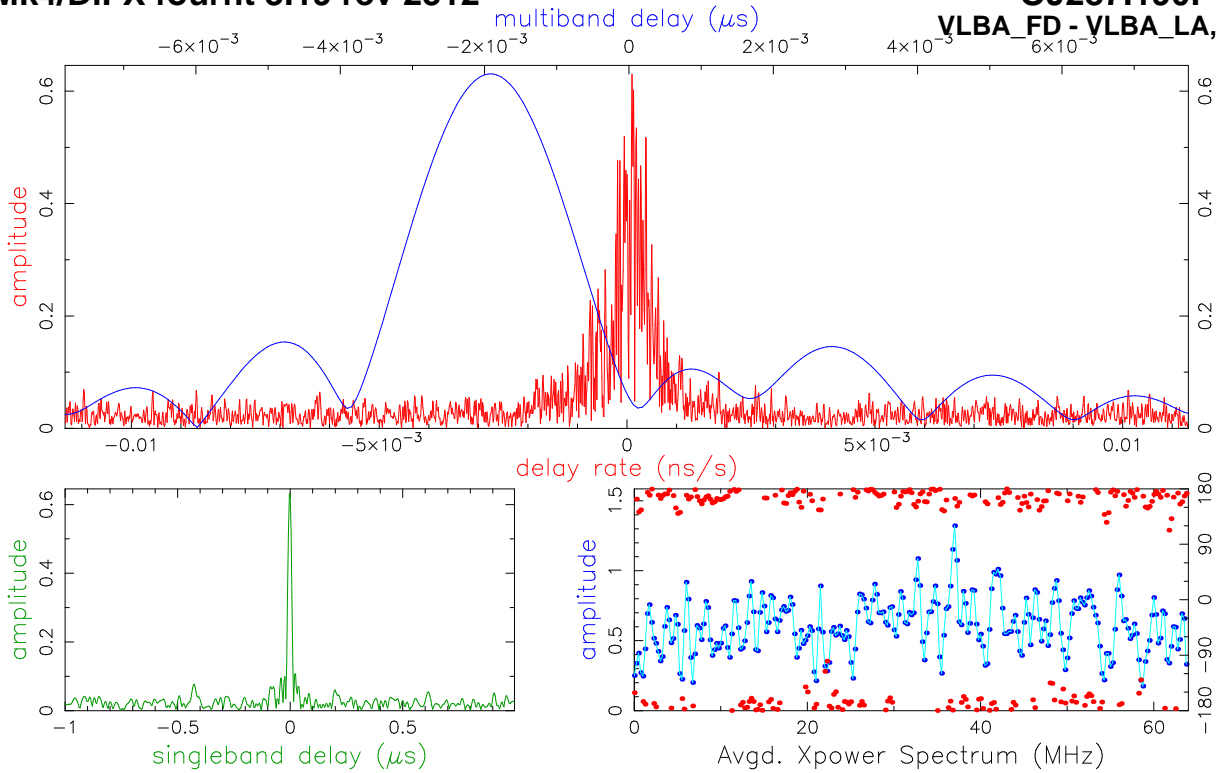
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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+00	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					ion window (TEC) 0.00 0.00

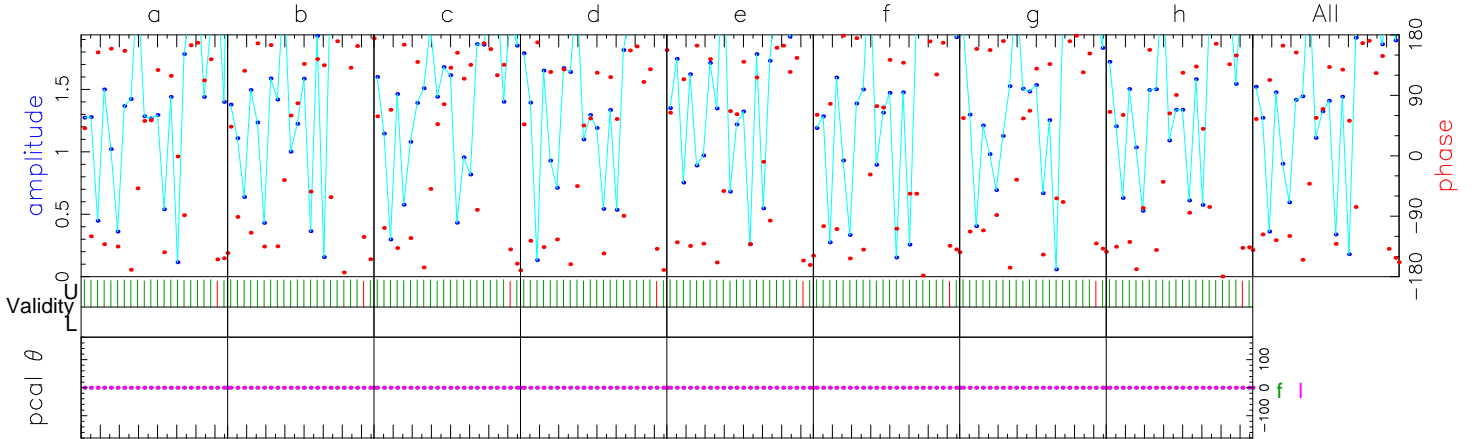


Fringe quality 7

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
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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

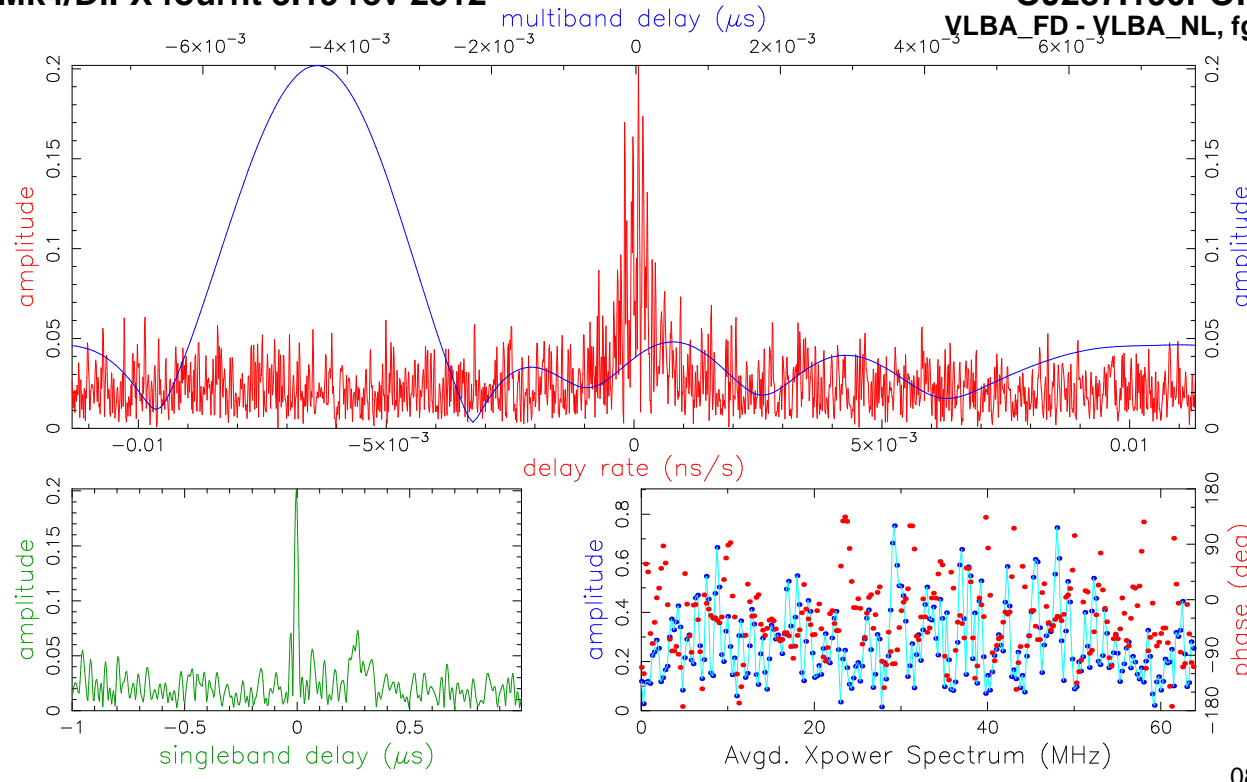
ph/seg (deg) RMS Theor. Amplitude 0.646 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.5 7.5 Search (2048X32) 0.626 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 161.4 13.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -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

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fn
VLBA_FD - VLBA_NL, fgroup W, pol RR

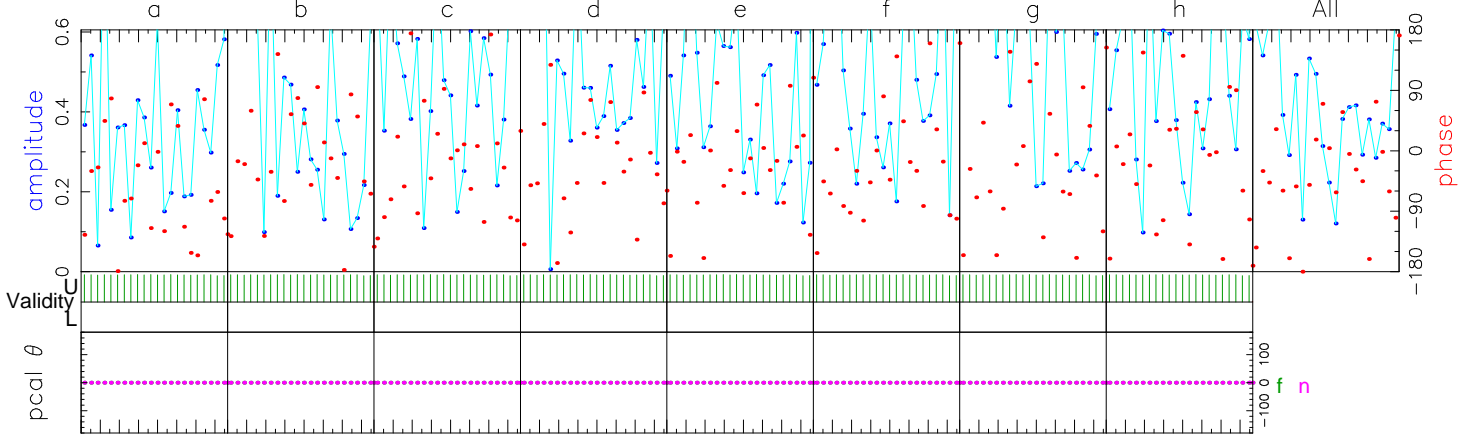


Fringe quality 9

SNR 11.5
Int time 433.353
Amp 0.202
Phase -33.6
PFD 7.0e-22
Delays (us)
SBD -0.004201
MBD -0.004431
Fringe rate (Hz) 0.007293
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
2020:202:210534
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



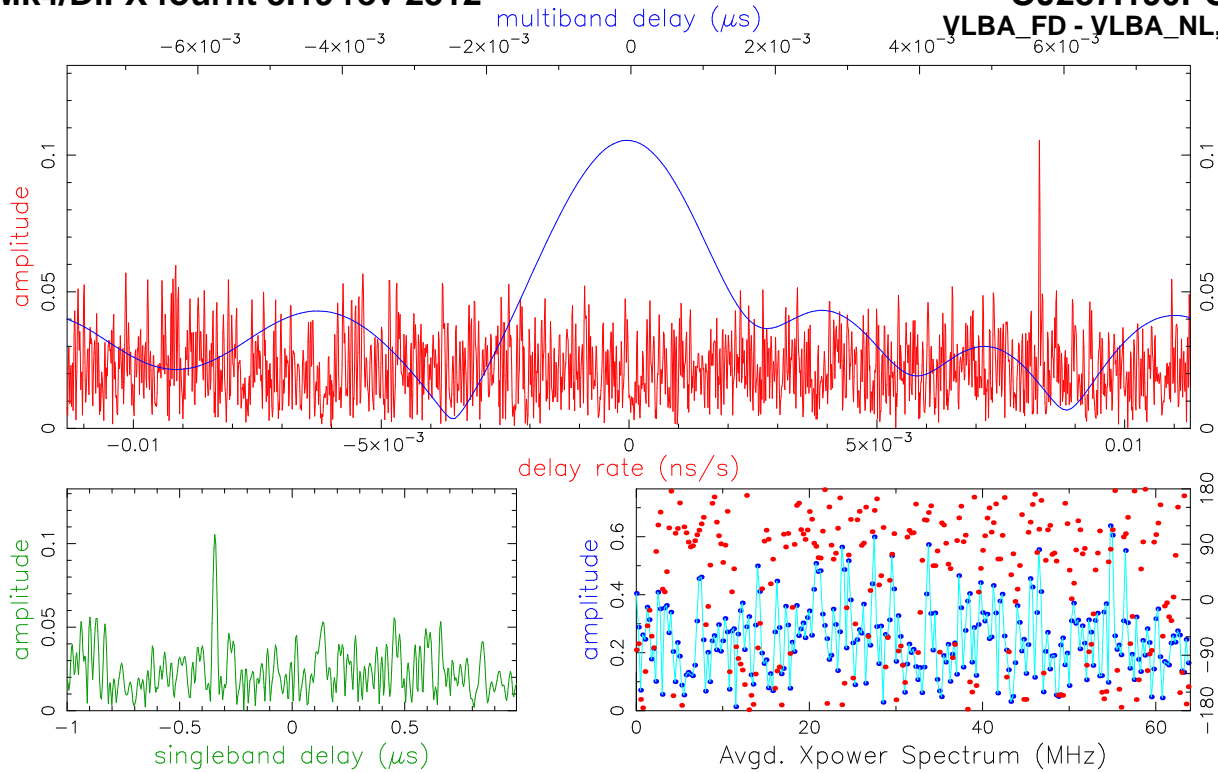
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-3.29846574129E+03	Apriori delay (usec)	-3.29846131034E+03	Resid mbdelay (usec)	-4.43094E-03	+/-	9.4E-05
Sband delay (usec)	-3.29846551109E+03	Apriori clock (usec)	-2.8392157E+01	Resid sbdelay (usec)	-4.20075E-03	+/-	7.5E-04
Phase delay (usec)	-3.29846131143E+03	Apriori clockrate (us/s)	-2.2499998E-07	Resid phdelay (usec)	-1.08349E-06	+/-	3.2E-07
Delay rate (us/s)	2.59041673388E-01	Apriori rate (us/s)	2.59041588727E-01	Resid rate (us/s)	8.46613E-08	+/-	1.3E-09
Total phase (deg)	-131.8	Apriori accel (us/s/s)	1.13435984921E-05	Resid phase (deg)	-33.6	+/-	10.0

ph/seg (deg)	72.2	Theor.	23.9	Search (2048X32)	0.194	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	134.2	Amplitude	0.202 +/- 0.018	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)	21.3	Inc. seg. avg.	0.382	Inc. frq. avg.	0.206	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	24.2	Apriori delay (usec)	-3.29846131034E+03	Apriori clock (usec)	-2.8392157E+01	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

f: az 80.8 el 25.4 pa -64.7 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) -1558.124 -968.611 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fn..190POF Output file: /Exps/c201c/v1/1234/No0032/fn.W.82.190POF

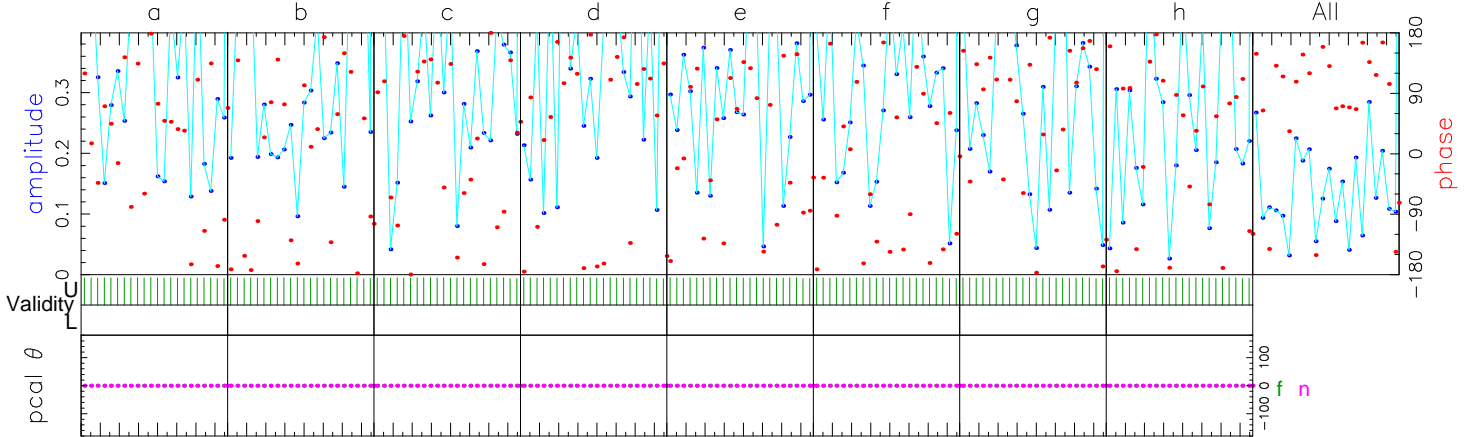


Fringe quality 0

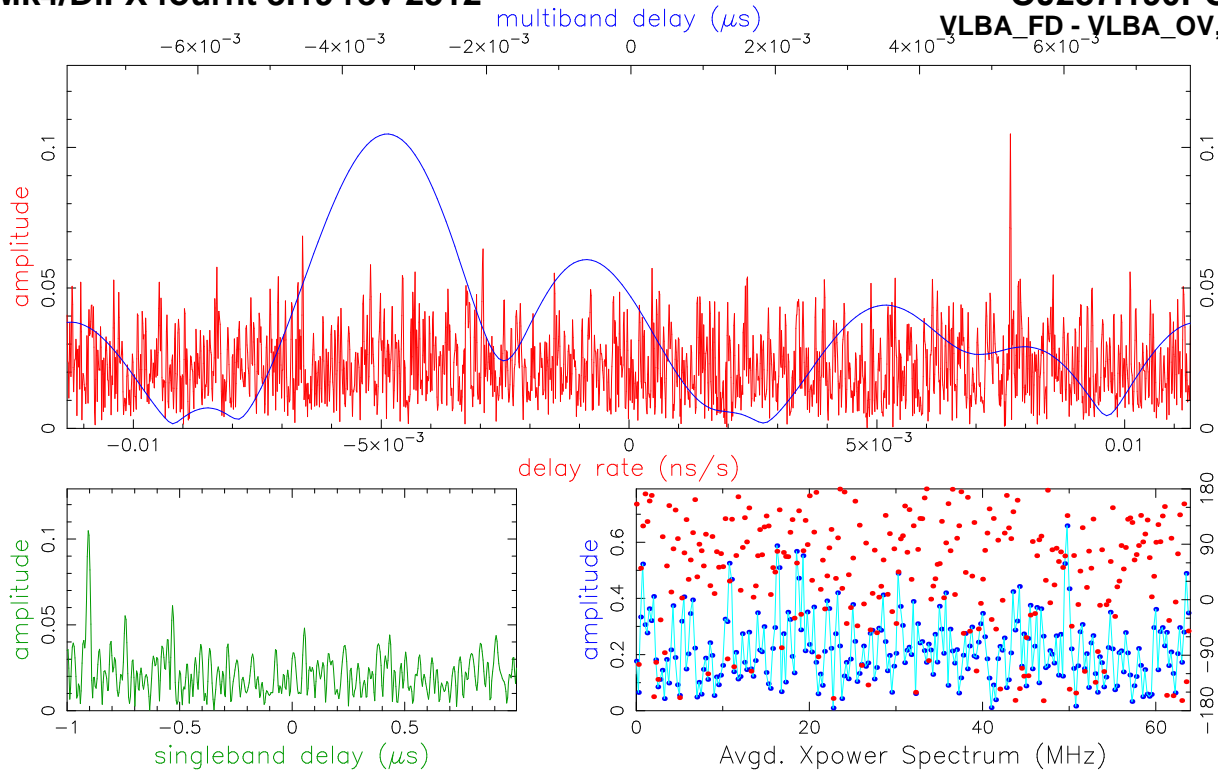
SNR 6.0
Int time 433.353
Amp 0.133
Phase 127.8
PFD 3.9e-01
Delays (us)
SBD -0.343385
MBD -0.000060
Fringe rate (Hz) 0.714611
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210538
2020:014:135814
RA & Dec (J2000) 08h54m48.8749285"
+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

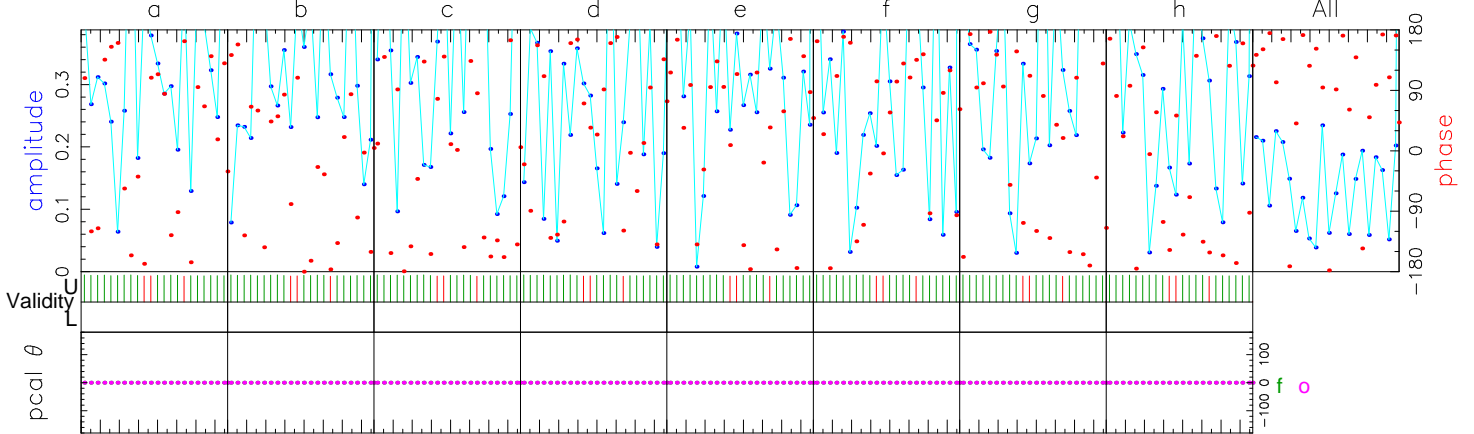


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		-3.29880512003E+03				-3.29846131034E+03			Resid mbdelay (usec)	-5.96834E-05	+/- 1.8E-04
Sband delay (usec)		-3.29880469559E+03				-2.8392157E+01			Resid sbdelay (usec)	-3.43385E-01	+/- 1.4E-03
Phase delay (usec)		-3.29846130622E+03				-2.2499998E-07			Resid phdelay (usec)	4.12110E-06	+/- 6.2E-07
Delay rate (us/s)		2.59049884647E-01				2.59041588727E-01			Resid rate (us/s)	8.29592E-06	+/- 2.4E-09
Total phase (deg)			29.6			1.13435984921E-05			Resid phase (deg)	127.8	+/- 19.1
ph/seg (deg)	RMS 50.3	Theor. 45.8	Amplitude 0.133 +/- 0.022	Search (2048X32) 0.101	PCal mode: MANUAL, MANUAL	PCal rate: 0.000E+00, 0.000E+00 (us/s)	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	77.3	79.9	Interp. 0.000	Inc. seg. avg. 0.134	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	36.6	27.0	Inc. frq. avg. 0.134	0.134	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	55.8	47.1			nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00		



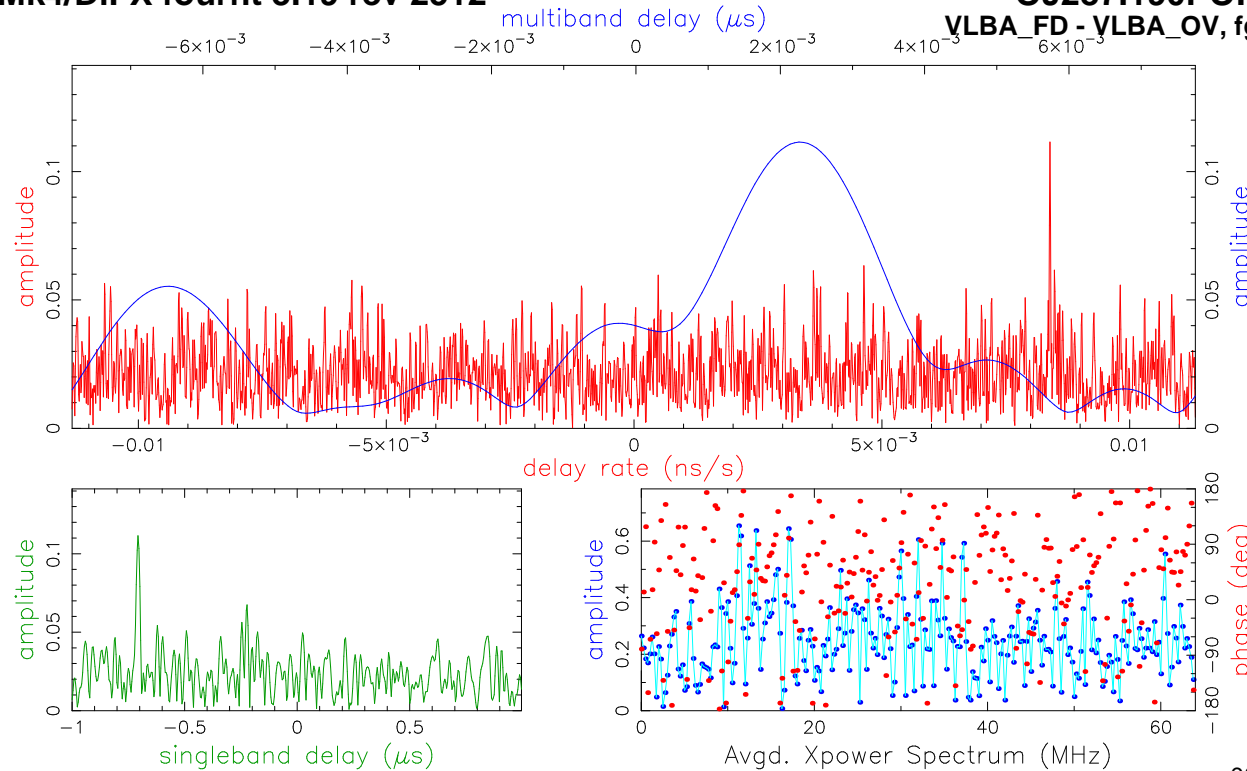
Fringe quality 0
 SNR 6.0
 Int time 423.615
 Amp 0.129
 Phase 143.3
 PFD 4.6e-01
 Delays (us)
 SBD -0.904825
 MBD -0.003354
 Fringe rate (Hz) 0.663899
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210544
 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



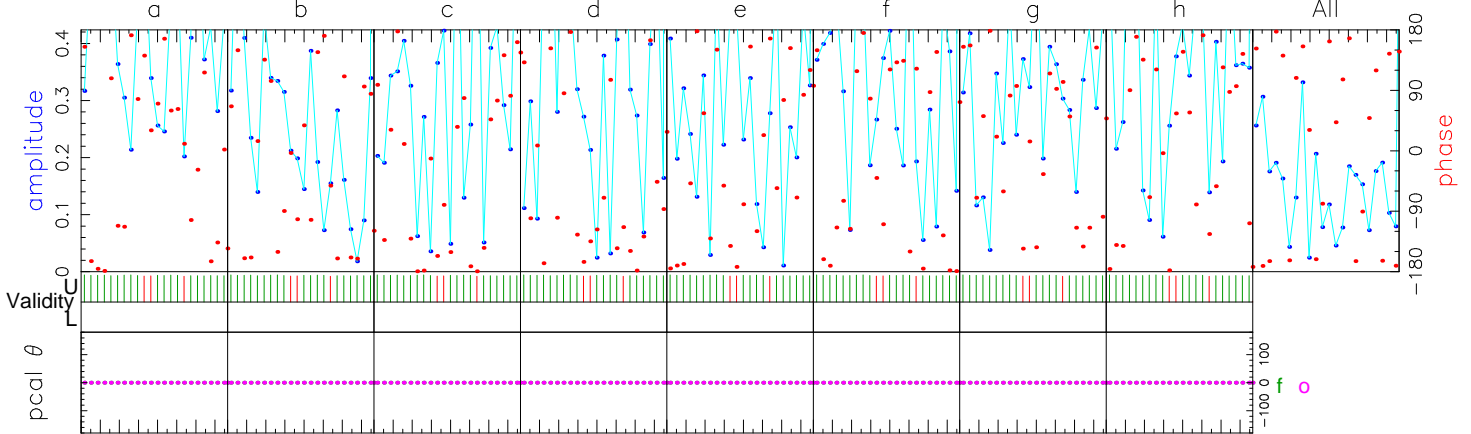
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.60189595120E+03			3.60280555566E+03				Resid mbdelay (usec)	-3.35447E-03 +/- 1.8E-04
Sband delay (usec)		3.60190073066E+03			-1.6187828E+01				Resid sbdelay (usec)	-9.04825E-01 +/- 1.4E-03
Phase delay (usec)		3.60280556029E+03			-9.2000002E-08				Resid phdelay (usec)	4.62167E-06 +/- 6.2E-07
Delay rate (us/s)		2.58920824926E-02			2.58843752839E-02				Resid rate (us/s)	7.70721E-06 +/- 2.4E-09
Total phase (deg)			346.7		-2.29283696517E-05				Resid phase (deg)	143.3 +/- 19.2

ph/seg (deg) 47.8 46.0 Amplitude 0.129 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.9 80.4 Interp. 0.101 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.7 27.2 Search (2048X32) 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.2 47.4 Inc. seg. avg. 0.129 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -194.661 -1449.801 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fo..190POF Output file: /Exps/c201c/v1/1234/No0032/fo.W.117.190POF simultaneous interpolator



Fringe quality 0
SNR 6.3
Int time 423.614
Amp 0.141
Phase 169.3
PFD 9.0e-02
Delays (us)
SBD -0.706841
MBD 0.002281
Fringe rate (Hz) 0.724054
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

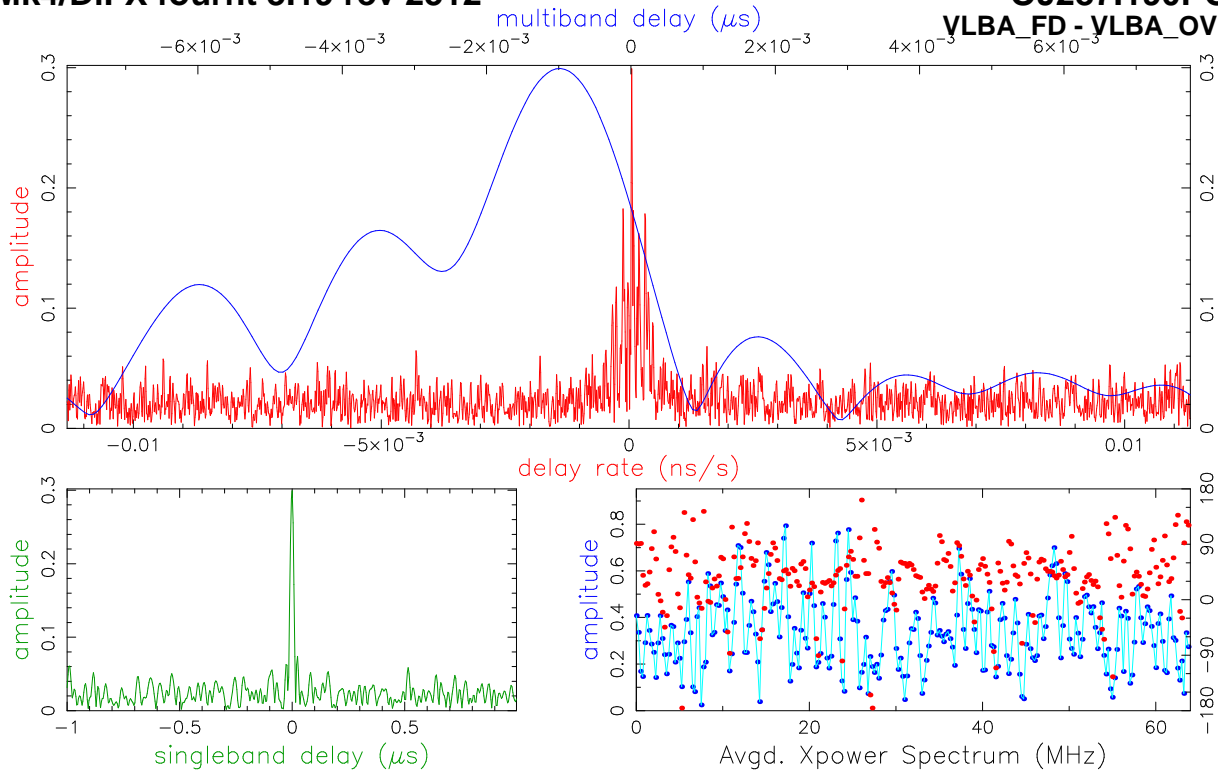


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.60210471212E+03	Apriori delay (usec)	3.60280555566E+03	Resid mbdelay (usec)	2.28146E-03	+/-	1.7E-04
Sband delay (usec)	3.60209871441E+03	Apriori clock (usec)	-1.6187828E+01	Resid sbdelay (usec)	-7.06841E-01	+/-	1.4E-03
Phase delay (usec)	3.60280556112E+03	Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	5.45970E-06	+/-	5.9E-07
Delay rate (us/s)	2.58927808285E-02	Apriori rate (us/s)	2.58843752839E-02	Resid rate (us/s)	8.40554E-06	+/-	2.3E-09
Total phase (deg)	12.7	Apriori accel (us/s/s)	-2.29283696517E-05	Resid phase (deg)	169.3	+/-	18.3

ph/seg (deg)	63.5	Theor.	43.8	Amplitude	0.141 +/- 0.023	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	81.2		76.4	Search (2048X32)	0.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	26.7		25.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	37.6		45.1	Inc. seg. avg.	0.147	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.141	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 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -194.661 -1449.801 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fo...190POF Output file: /Exps/c201c/v1/1234/No0032/fo.W.133.190POF

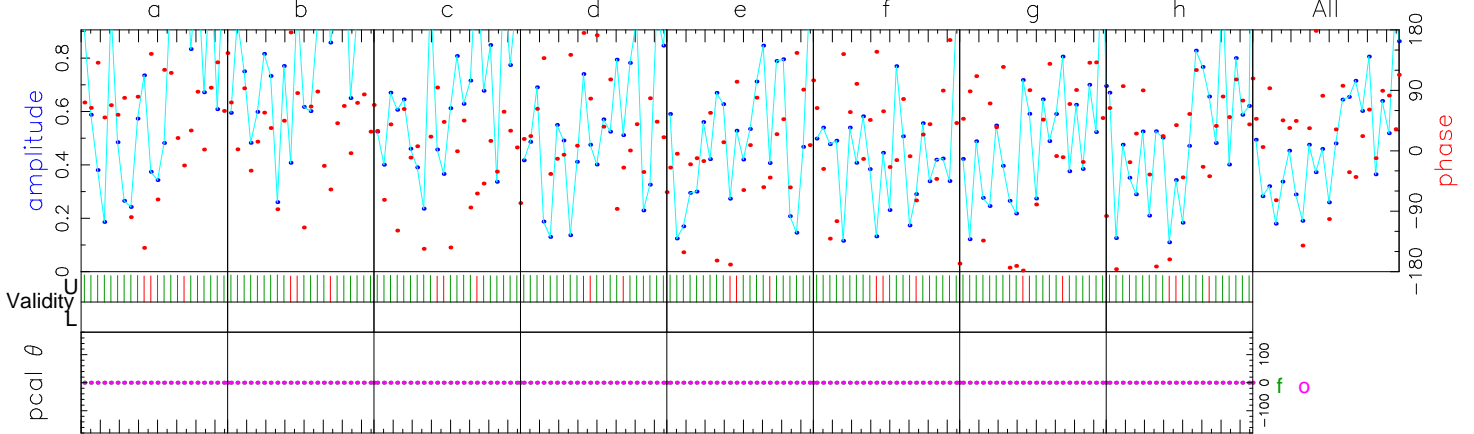


Fringe quality 8

SNR 17.0
Int time 423.615
Amp 0.302
Phase 40.3
PFD 0.0e+00
Delays (us)
SBD -0.001225
MBD -0.001023
Fringe rate (Hz)
0.004364
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

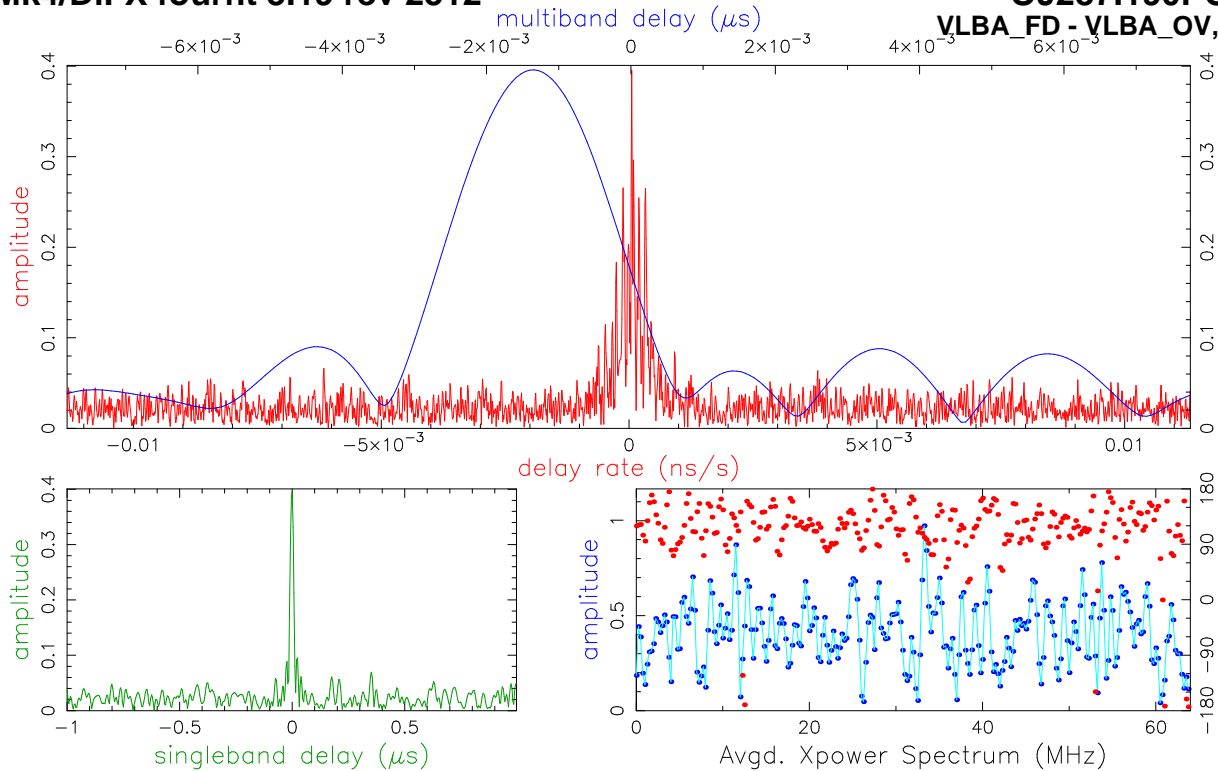
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210534
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	3.60280453305E+03		Apriori delay (usec)		3.60280555566E+03		Resid mbdelay (usec)		-1.02262E-03	+/- 6.4E-05
Sband delay (usec)	3.60280433041E+03		Apriori clock (usec)		-1.6187828E+01		Resid sbdelay (usec)		-1.22525E-03	+/- 5.1E-04
Phase delay (usec)	3.60280555696E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		1.30102E-06	+/- 2.2E-07
Delay rate (us/s)	2.58844259415E-02		Apriori rate (us/s)		2.58843752839E-02		Resid rate (us/s)		5.06576E-08	+/- 8.6E-10
Total phase (deg)	243.7		Apriori accel (us/s/s)		-2.29283696517E-05		Resid phase (deg)		40.3	+/- 6.7

ph/seg (deg) 71.6 16.2 Search (2048X32) 0.279 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 89.5 28.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.9 9.5 Inc. seg. avg. 0.461 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.9 16.6 Inc. frq. avg. 0.323 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -194.661 -1449.801 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fo..190POF Output file: /Exps/c201c/v1/1234/No0032/fo.W.84.190POF

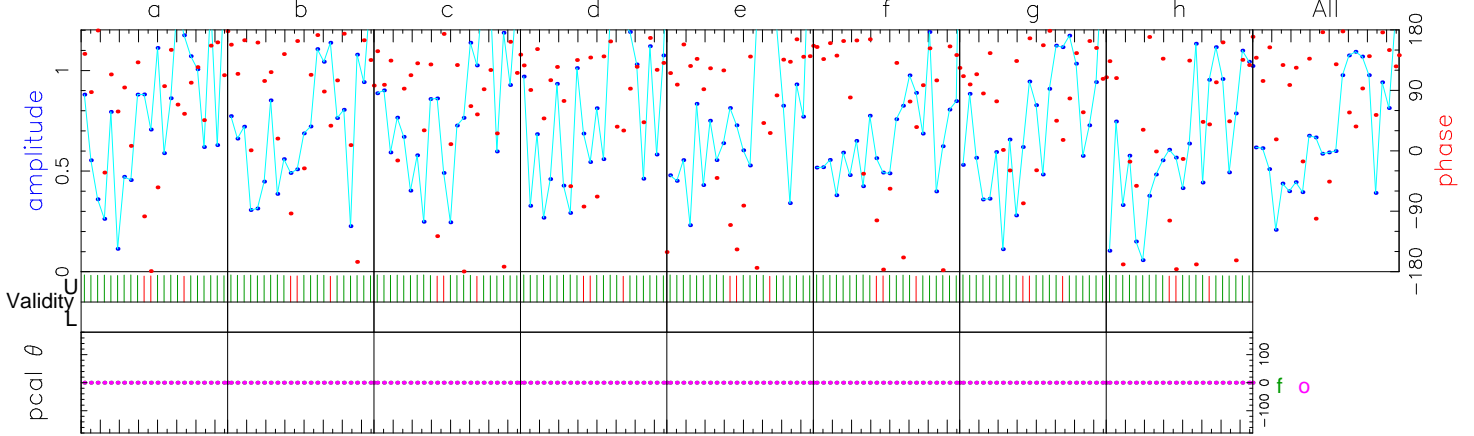


Fringe quality 9

SNR 22.6
Int time 423.614
Amp 0.401
Phase 123.0
PFD 0.0e+00
Delays (us)
SBD -0.001424
MBD -0.001395
Fringe rate (Hz) 0.004317
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

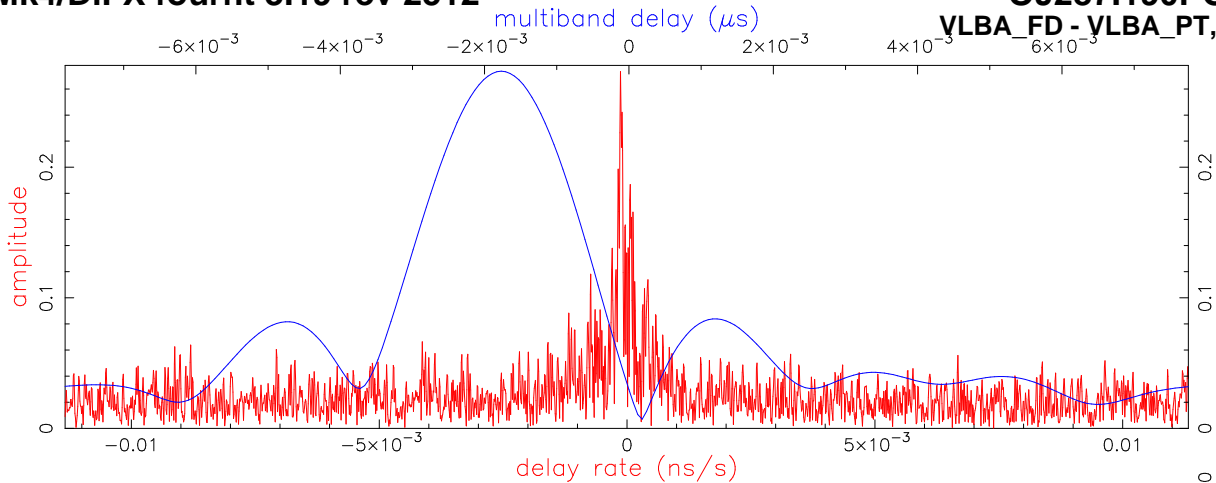


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	113.8	133.6	117.7	114.5	127.2	144.9	104.5	132.1		
Sband delay (usec)	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3		
Phase delay (usec)	257.1	256.1	256.4	256.8	257.0	256.7	257.1	256.4		
Delay rate (us/s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total phase (deg)			326.3							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 69.8 12.2 Search (2048X32) 0.360 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 102.3 21.3 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 7.2 Inc. seg. avg. 0.683 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 16.0 12.5 Inc. frq. avg. 0.401 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 80.8 el 25.4 pa -64.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -194.661 -1449.801 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fo..190POF Output file: /Exps/c201c/v1/1234/No0032/fo.W.97.190POF

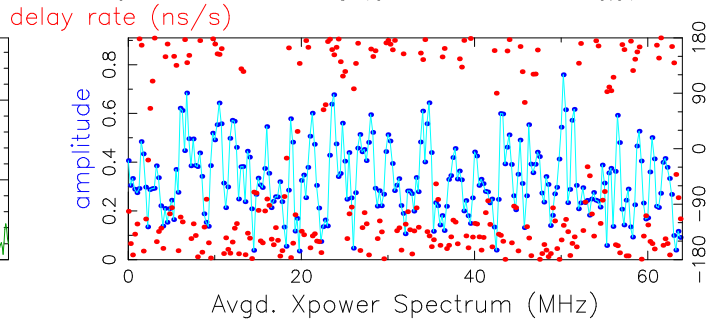
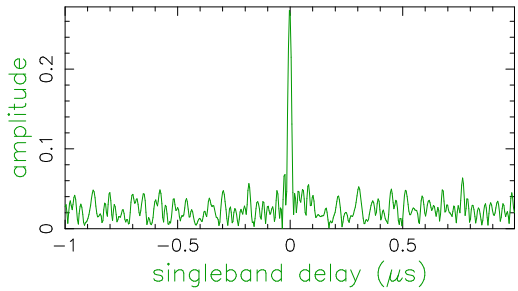
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fp
VLBA_FD - VLBA_PT, fgroup W, pol RR



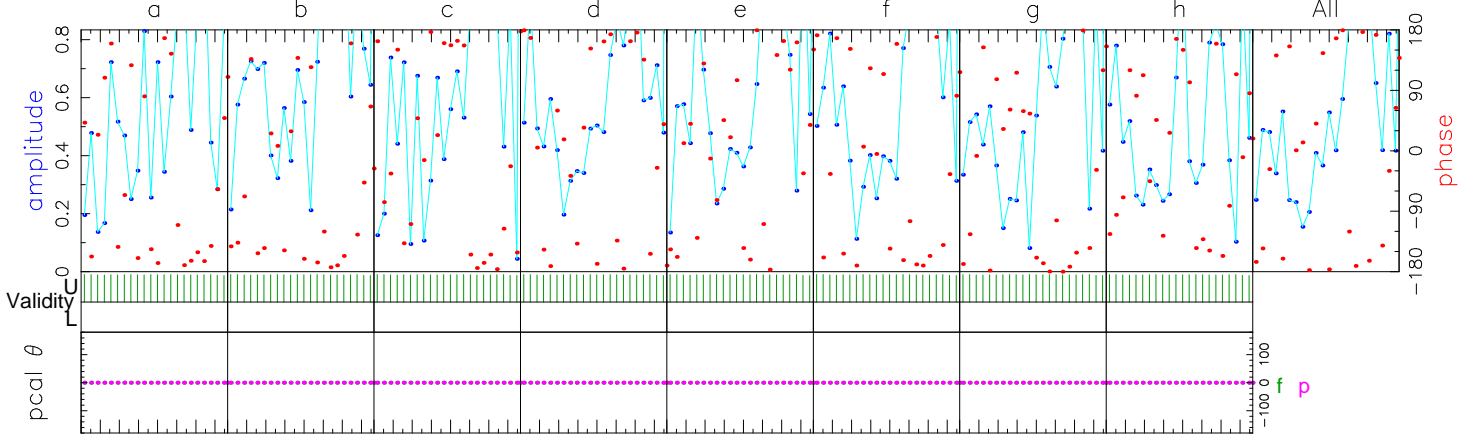
Fringe quality 9

SNR 15.8
Int time 434.375
Amp 0.278
Phase -168.8
PFD 0.0e+00
Delays (us)
SBD -0.002288
MBD -0.001726
Fringe rate (Hz)
-0.011348
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
2020:202:210540
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
	-171.0	-154.3	-166.5	177.7	176.4	-162.2	-172.1	-169.5	Phase	-168.8
	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.2	Ampl.	0.3
	255.6	256.4	256.6	255.9	256.8	256.8	256.8	256.9	Sbd box	256.4
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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	9.71322794478E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-1.72601E-03	+/- 6.8E-05
Sband delay (usec)	9.71322232485E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		-2.28800E-03	+/- 5.4E-04
Phase delay (usec)	9.71324515042E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-5.44300E-06	+/- 2.3E-07
Delay rate (us/s)	2.05303427956E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		-1.31737E-07	+/- 9.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-168.8	+/- 7.2

	RMS	Theor.	Amplitude	0.278 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	82.4	17.3	Search (2048X32)	0.267	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	122.2	30.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	10.6	10.2	Inc. seg. avg.	0.490	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	26.8	17.8	Inc. frq. avg.	0.273	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

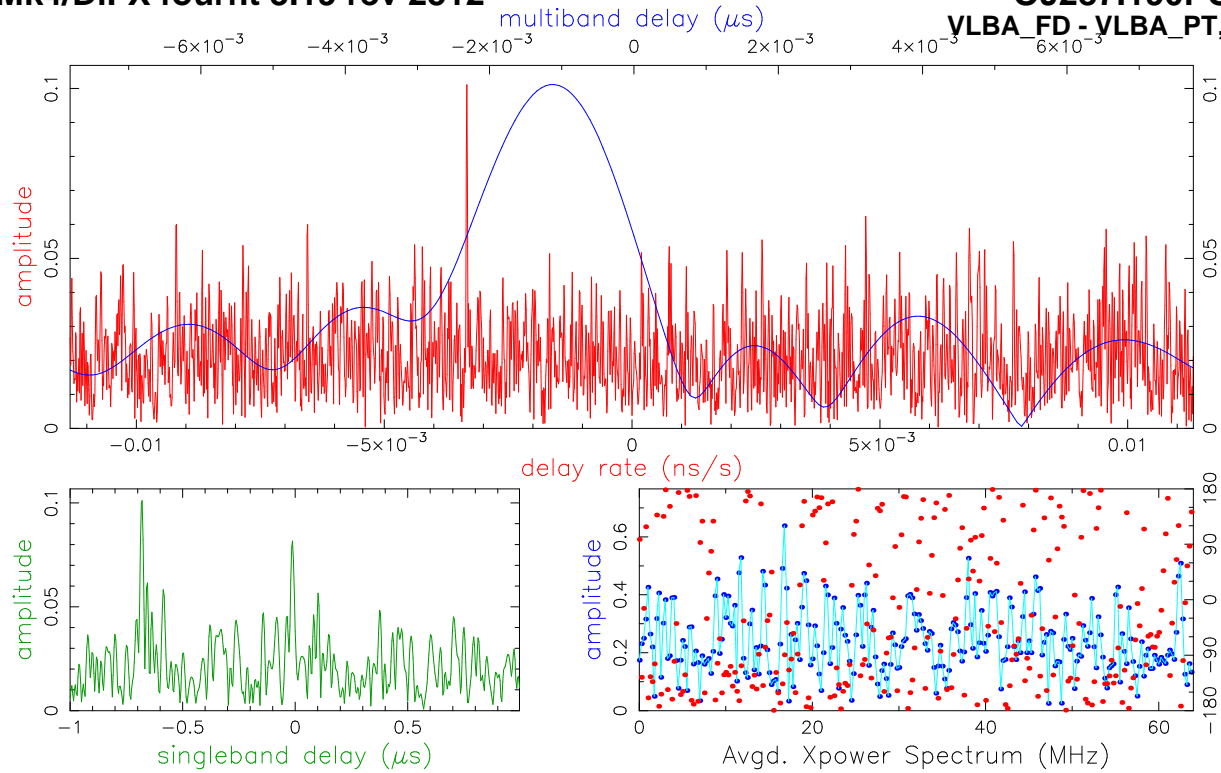
f: az 80.8 el 25.4 pa -64.7

p: az 80.5 el 22.5 pa -60.3

u,v (fr/asec) -136.622 -658.543

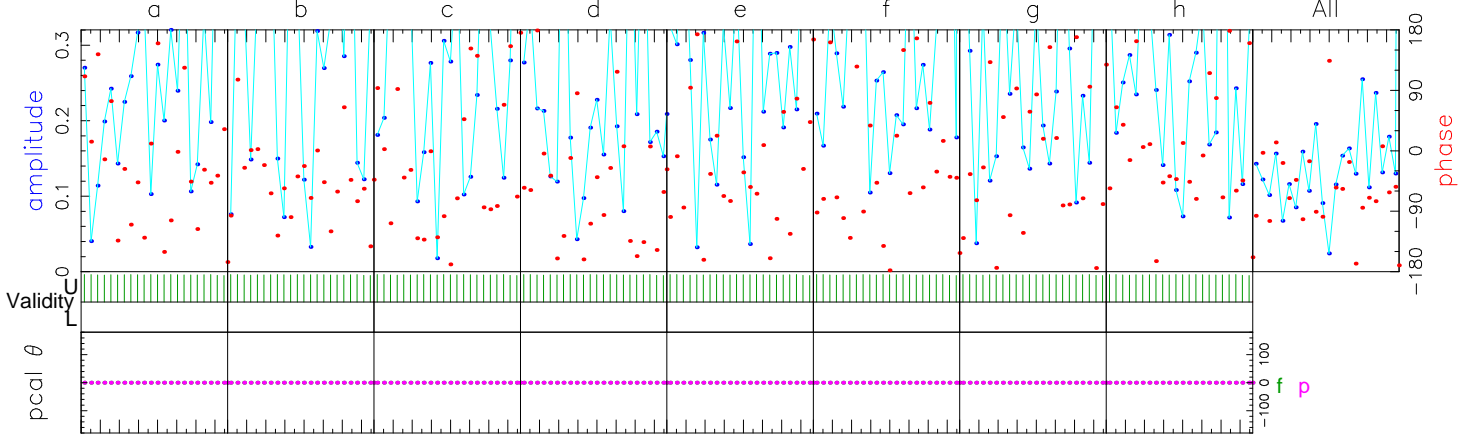
simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.101.190POF



Fringe quality 0
SNR 5.9
Int time 434.375
Amp 0.107
Phase -63.4
PFD 6.6e-01
Delays (us)
SBD -0.681373
MBD -0.001168
Fringe rate (Hz)
-0.287027
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

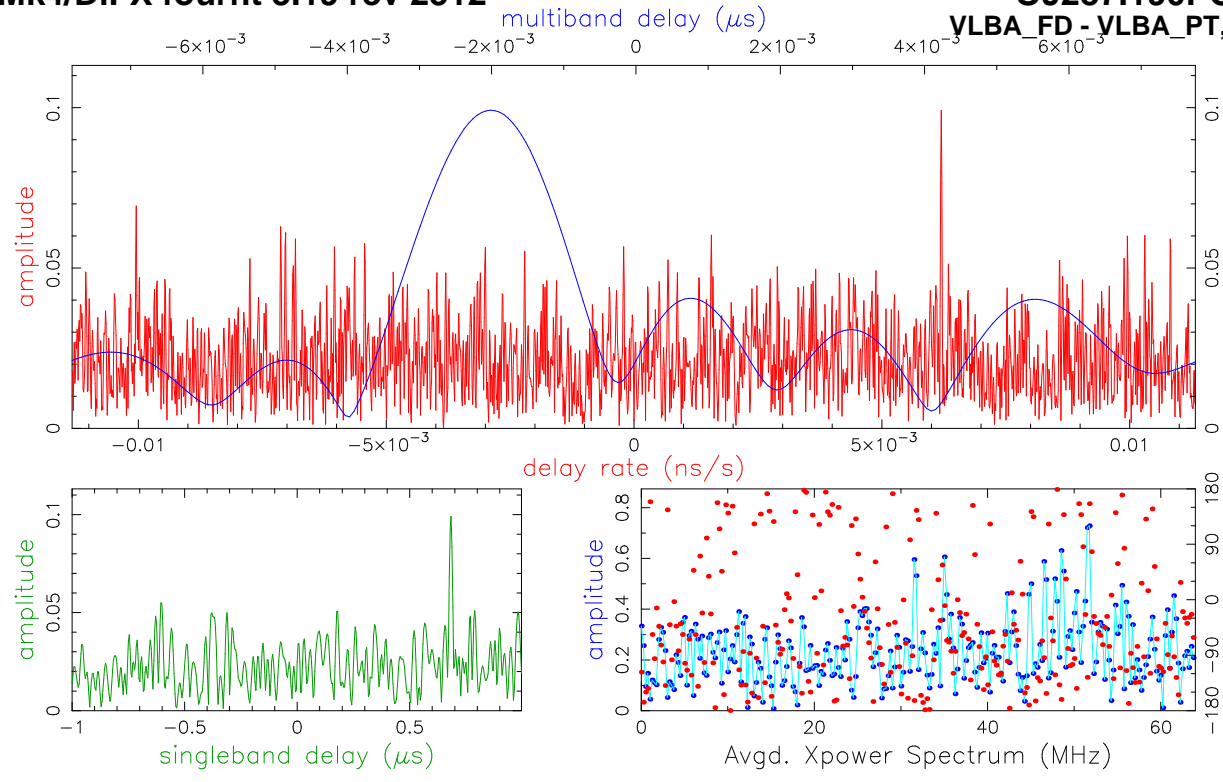


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-51.3	-47.6	-77.7	-99.1	-61.1	-70.0	-82.4	-34.5	Phase	-63.4
	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	Ampl.	0.1
	113.1	107.8	381.2	379.5	78.1	460.5	286.6	88.6	Sbd box	82.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.70635852390E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-1.16810E-03	+/- 1.8E-04
Sband delay (usec)	9.70643146985E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		-6.81373E-01	+/- 1.5E-03
Phase delay (usec)	9.71324518440E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-2.04445E-06	+/- 6.3E-07
Delay rate (us/s)	2.05271424343E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		-3.33210E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-63.4	+/- 19.5

ph/seg (deg) 54.8 46.8 Theor. Amplitude 0.107 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.0 81.7 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.8 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.9 48.2 Inc. seg. avg. 0.106 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -136.622 -658.543 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.120.190POF simultaneous interpolator

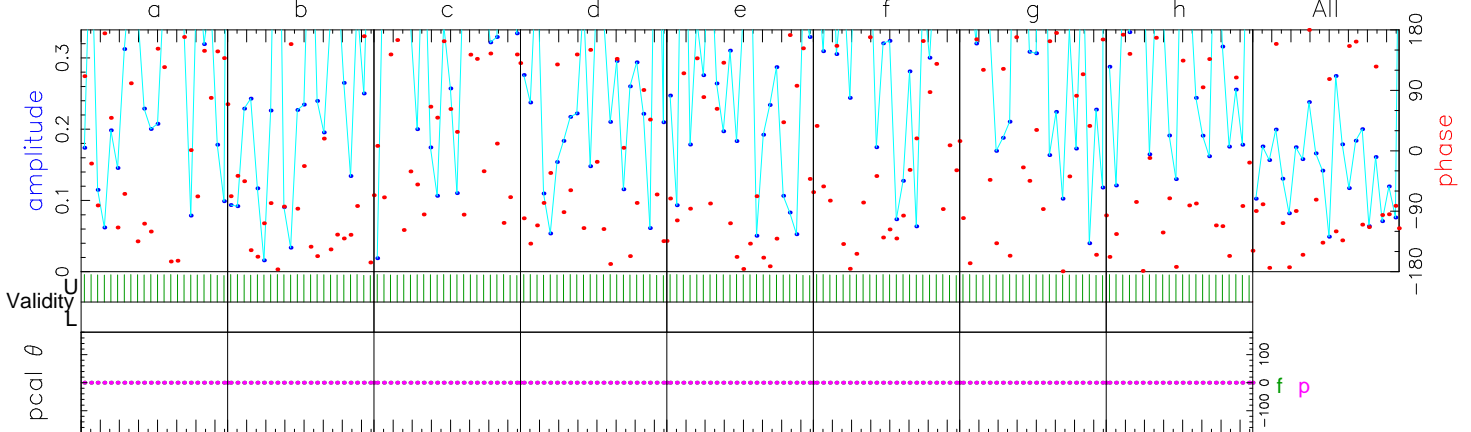
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fp
VLBA_FD - VLBA_PT, fgroup W, pol RL



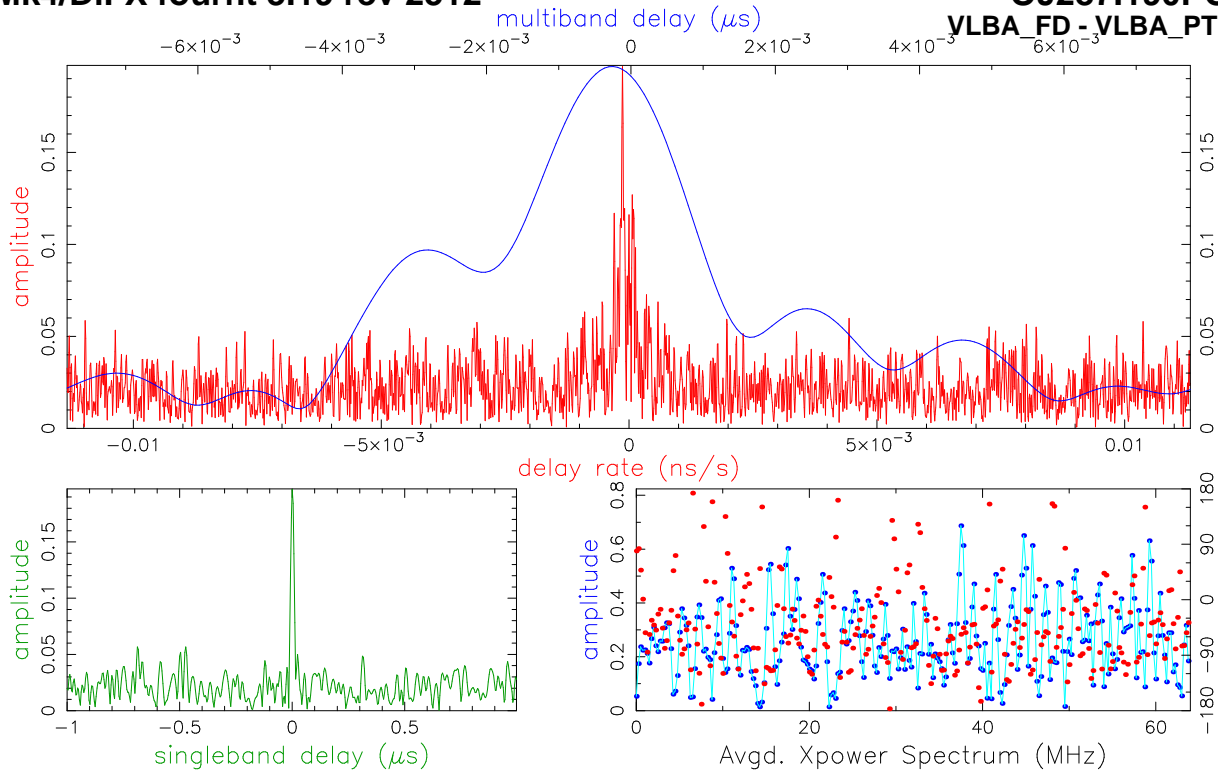
Fringe quality 0
SNR 5.7
Int time 434.375
Amp 0.113
Phase -137.8
PFD 9.6e-01
Delays (us)
SBD 0.682733
MBD -0.002037
Fringe rate (Hz) 0.534983
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
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
	-179.1	-131.3	-135.0	-108.8	-168.2	-113.0	-152.8	-139.6	Phase	-137.8
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	184.9	432.1	279.2	239.0	408.6	324.4	494.0	452.2	Sbd box	431.8
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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.72009983148E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-2.03734E-03	+/- 1.9E-04
Sband delay (usec)	9.72007252985E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		6.82733E-01	+/- 1.5E-03
Phase delay (usec)	9.71324516040E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-4.44482E-06	+/- 6.5E-07
Delay rate (us/s)	2.05366851608E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		6.21063E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-137.8	+/- 20.2

ph/seg (deg) 52.6 48.4 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 75.2 84.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 27.0 28.5 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 34.1 49.8 Inc. frq. avg. 0.108 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 80.8 el 25.4 pa -64.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -136.622 -658.543 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.138.190POF

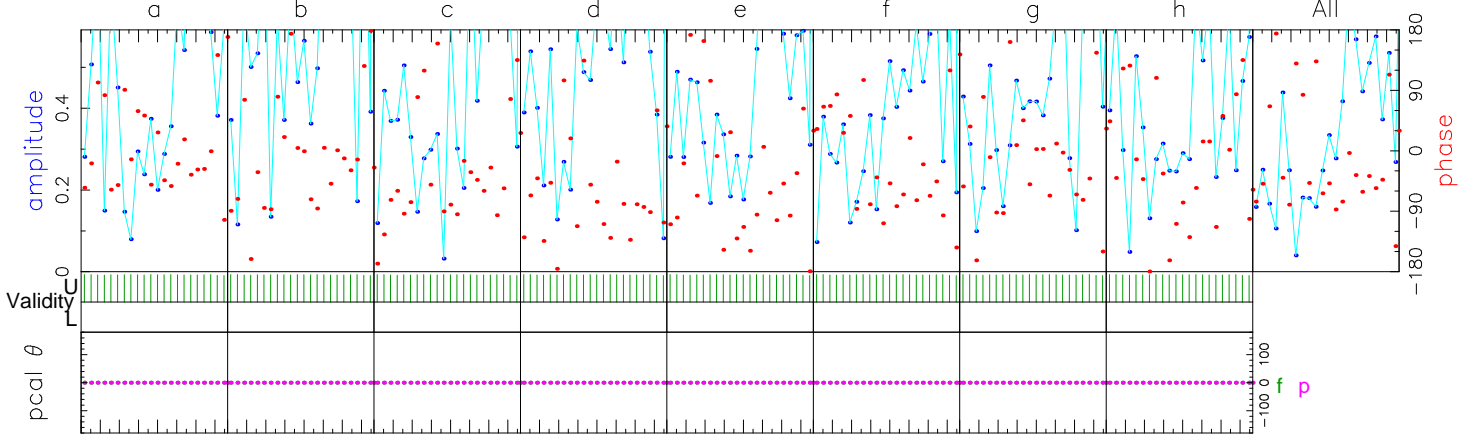


Fringe quality 9

SNR 11.2
Int time 434.375
Amp 0.197
Phase -46.6
PFD 1.2e-20
Delays (us)
SBD 0.000686
MBD -0.000246
Fringe rate (Hz)
-0.011458
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

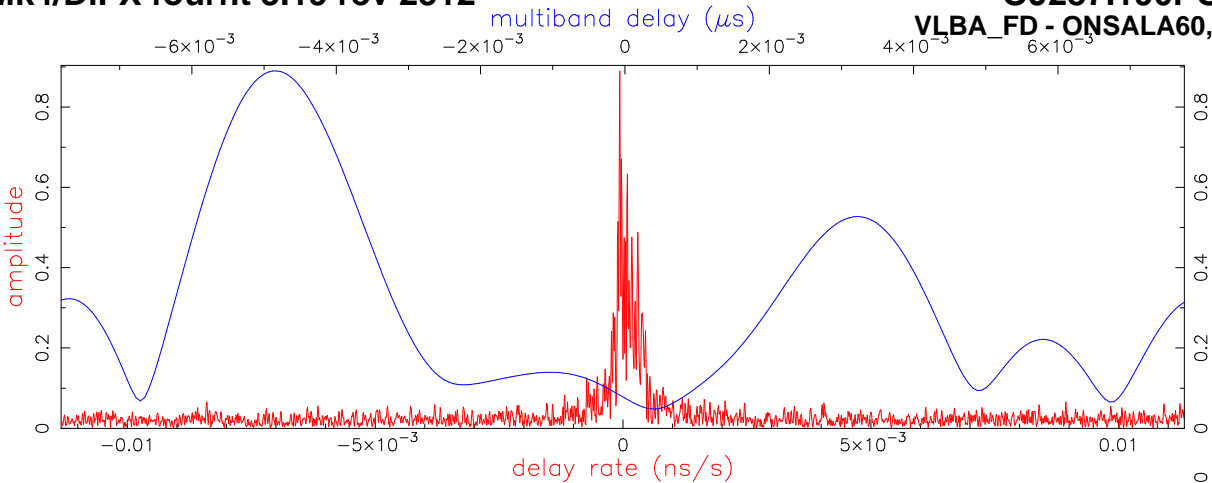
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210536
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



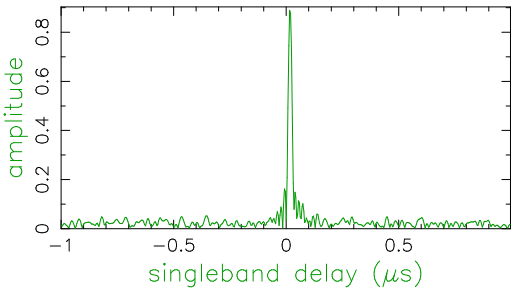
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.9	-21.3	-63.7	-86.5	-74.1	-41.3	-22.6	-21.0	Phase	-46.6
	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
	257.2	256.2	256.9	257.4	257.9	489.5	256.4	83.2	Sbd box	257.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.71324274260E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-2.46225E-04	+/- 9.7E-05
Sband delay (usec)	9.71325206735E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		6.86250E-04	+/- 7.7E-04
Phase delay (usec)	9.71324518984E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-1.50135E-06	+/- 3.3E-07
Delay rate (us/s)	2.05303415139E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		-1.33019E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-46.6	+/- 10.2

ph/seg (deg) 83.5 24.4 Search (2048X32) 0.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.0 42.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.4 14.4 Inc. seg. avg. 0.299 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.2 25.2 Inc. frq. avg. 0.213 Sample rate(MSamp/s): 128 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -136.622 -658.543 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.85.190POF simultaneous interpolator

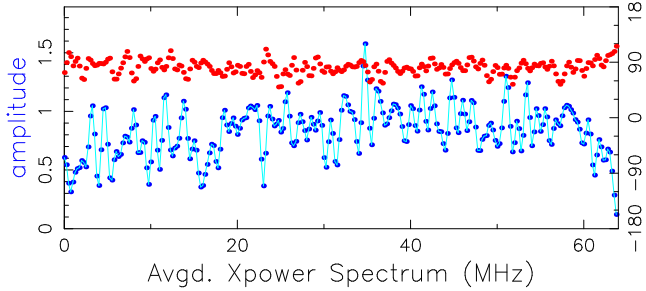


Fringe quality 2

SNR 51.5
 Int time 435.123
 Amp 0.904
 Phase -24.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.017261
 MBD -0.004792
 Fringe rate (Hz)
 -0.005315
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

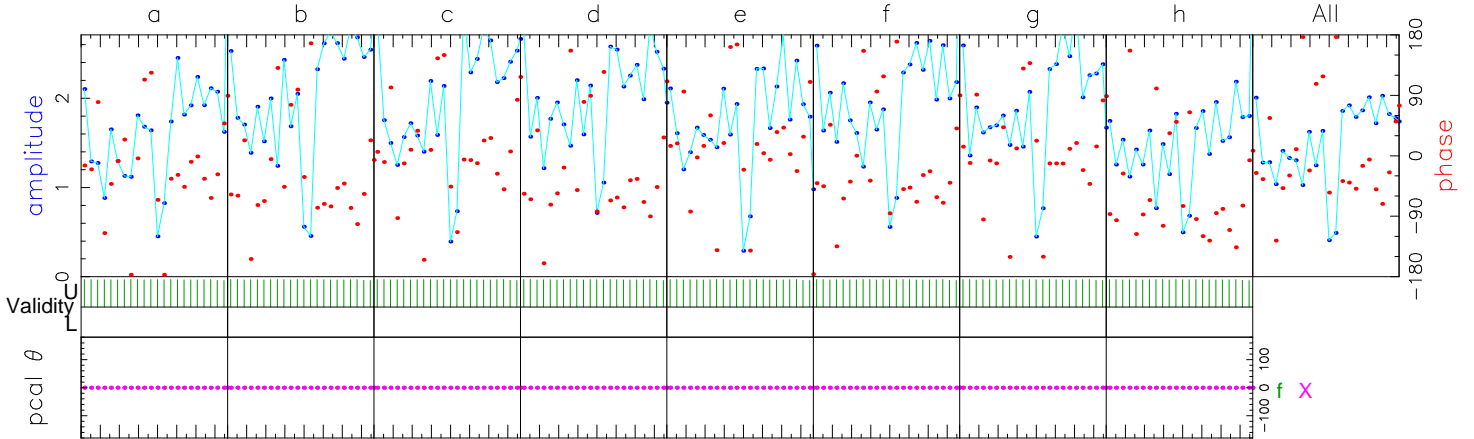


delay rate (ns/s)

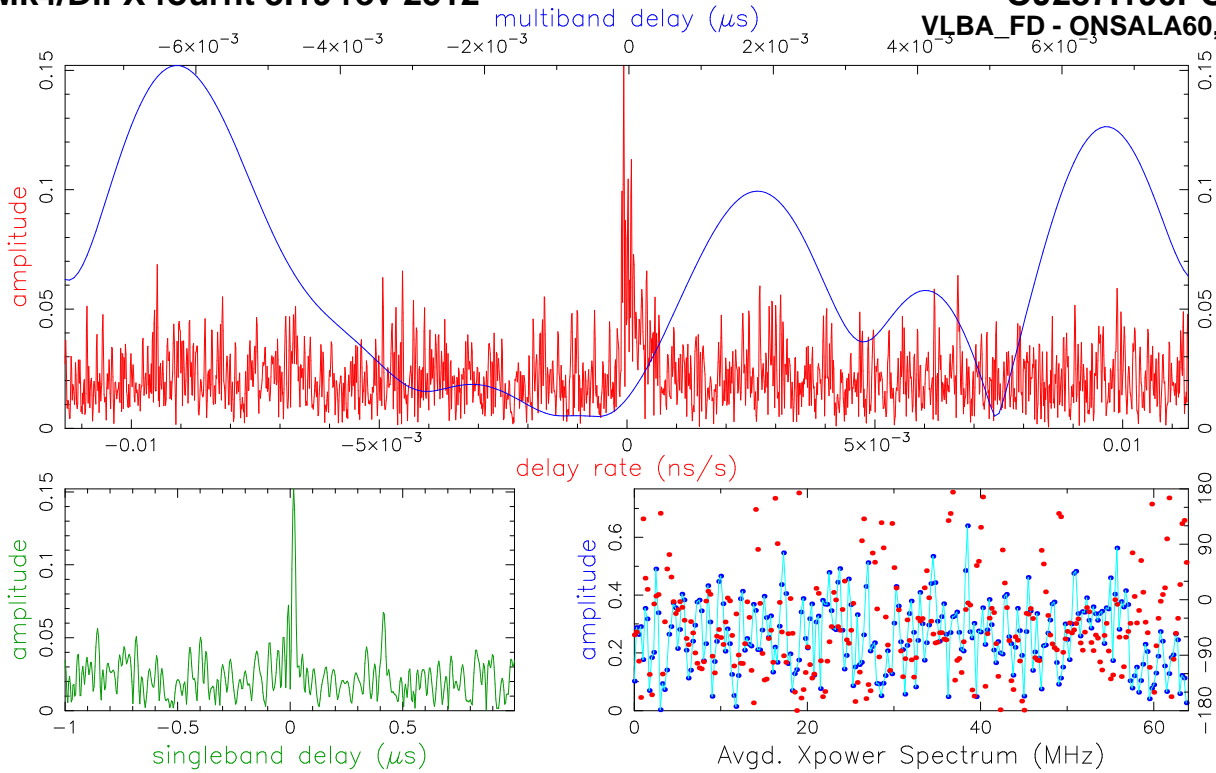


Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210542
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.27751410534E+03				-4.27752493790E+03					
Sband delay (usec)	-4.27750767690E+03				-3.6879646E+01					
Phase delay (usec)	-4.27752493869E+03				-4.1900001E-07					
Delay rate (us/s)	1.74387799441E+00				1.74387805611E+00					
Total phase (deg)			-78.6		9.68188570369E-06					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
ph/seg (deg)	73.3	5.3			0.832					
amp/seg (%)	82.1	9.3			0.000					
ph/frq (deg)	40.4	3.1			1.487					
amp/frq (%)	22.6	5.5			1.063					
f: az 80.8 el 25.4 pa -64.7										
X: az 239.7 el 40.6 pa 29.7										
u,v (fr/asec)										
Control file: cf_1234_gmva										
Input file: /Exps/c201c/v1/1234/No0032/fX..190POF										
Output file: /Exps/c201c/v1/1234/No0032/fX.W.109.190POF										

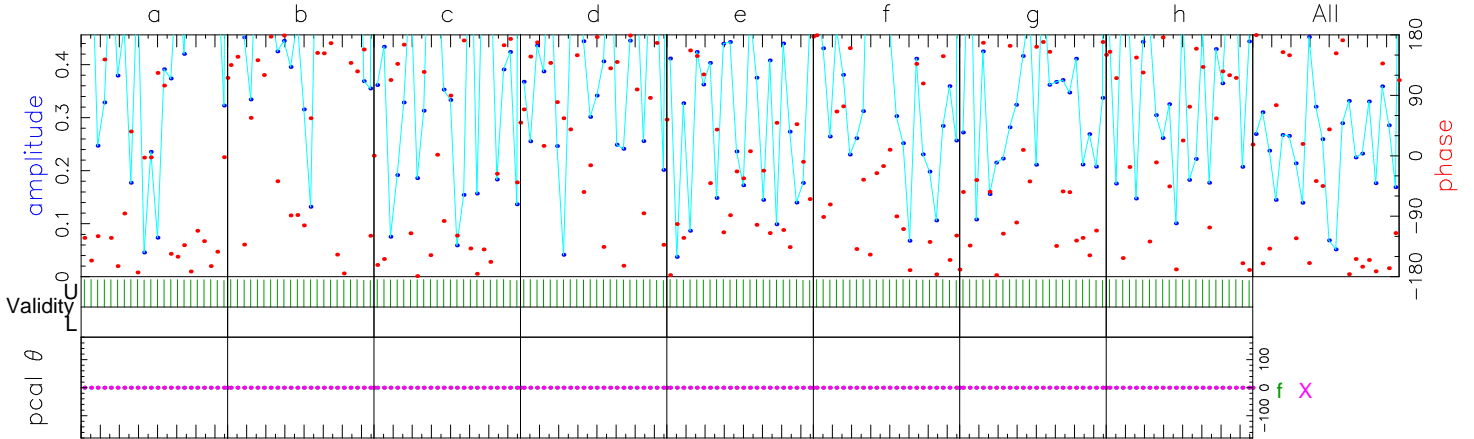


Fringe quality 9

SNR 8.7
Int time 435.123
Amp 0.152
Phase -167.4
PFD 1.5e-09
Delays (us)
SBD 0.015569
MBD -0.006267
Fringe rate (Hz)
-0.005428
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



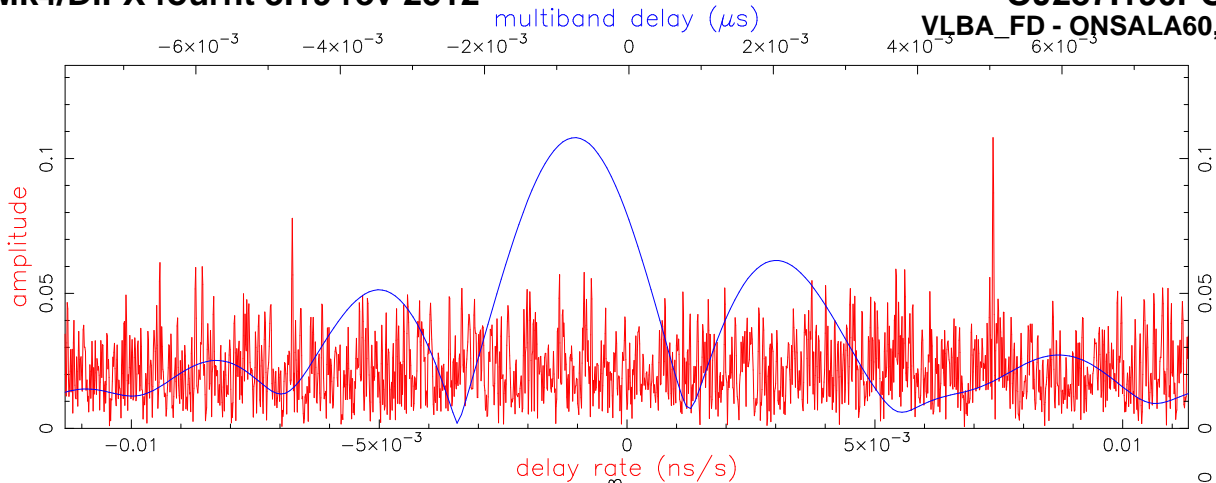
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-143.5	163.8	-156.8	135.4	-92.6	-129.7	-130.2	139.7	Phase	-167.4
	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.1	Ampl.	0.2
	261.3	260.5	260.8	165.3	85.9	84.5	61.6	258.4	Sbd box	261.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-4.27751557990E+03	Apriori delay (usec)	-4.27752493790E+03	Resid mbdelay (usec)	-6.26700E-03	+/-	1.3E-04
Sband delay (usec)	-4.27750936940E+03	Apriori clock (usec)	-3.6879646E+01	Resid sbdelay (usec)	1.55685E-02	+/-	9.9E-04
Phase delay (usec)	-4.27752494330E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	-5.39811E-06	+/-	4.3E-07
Delay rate (us/s)	1.74387799310E+00	Apriori rate (us/s)	1.74387805611E+00	Resid rate (us/s)	-6.30127E-08	+/-	1.7E-09
Total phase (deg)	-221.7	Apriori accel (us/s/s)	9.68188570369E-06	Resid phase (deg)	-167.4	+/-	13.2

ph/seg (deg)	RMS 72.3	Theor. 31.7	Amplitude Search (2048X32)	0.152 +/- 0.018	0.146	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	87.4	55.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	51.6	18.7	Inc. seg. avg.	0.213	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	65.9	32.6	Inc. frq. avg.	0.186	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00	

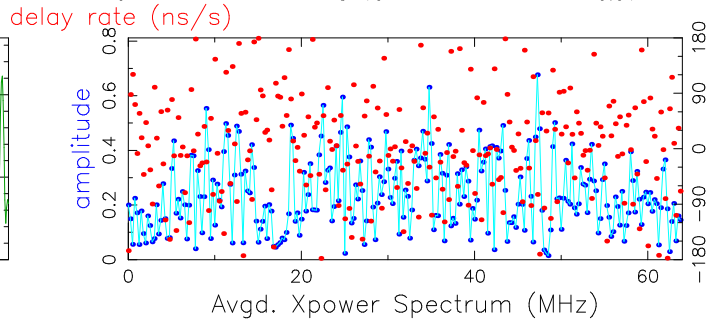
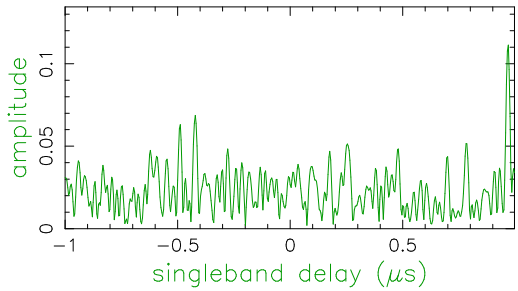
f: az 80.8 el 25.4 pa -64.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.131.190POF



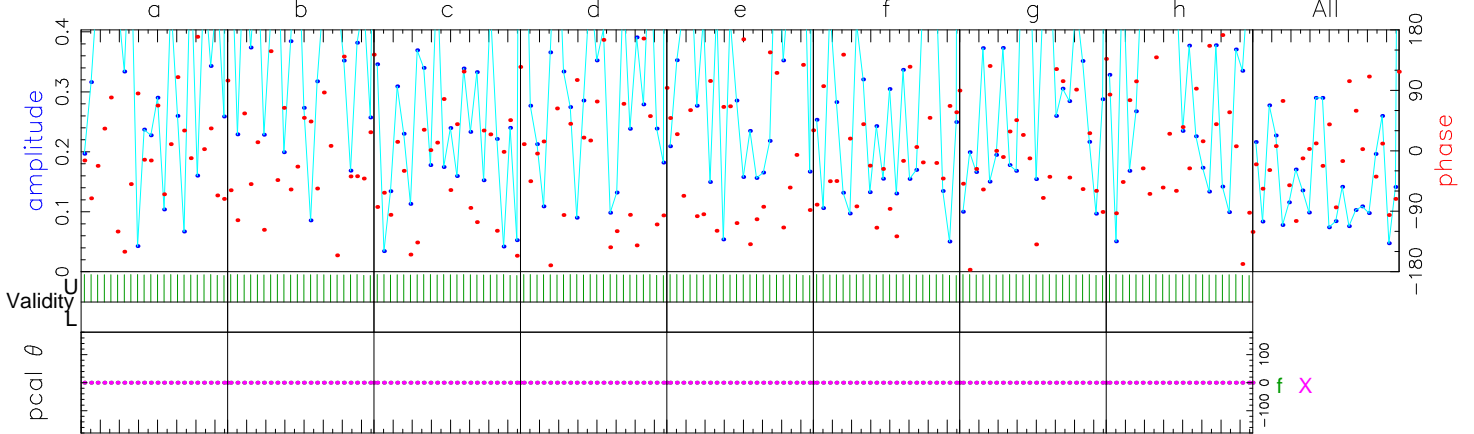
Fringe quality 0

SNR 6.4
Int time 435.123
Amp 0.134
Phase -13.4
PFD 4.2e-02
Delays (us)
SBD 0.967561
MBD -0.000735
Fringe rate (Hz) 0.636716
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

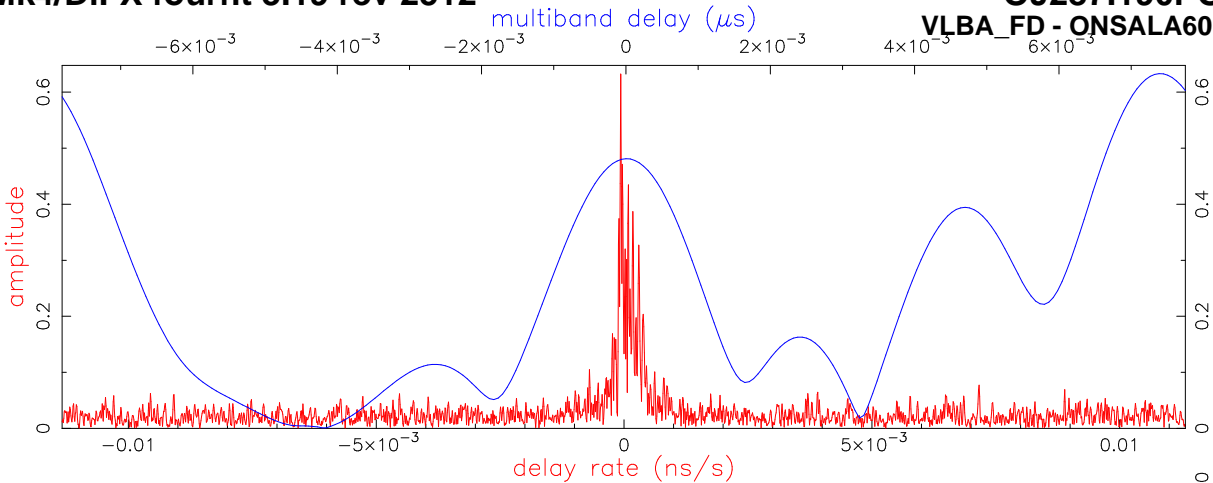


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-12.3	-19.0	-16.2	32.6	-81.4	-21.0	-13.5	-13.3	Phase	-13.4
	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.1	Ampl.	0.1
	505.2	495.6	39.3	353.8	372.3	506.1	180.9	42.0	Sbd box	504.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.27655692249E+03	Apriori delay (usec)	-4.27752493790E+03	Resid mbdelay (usec)	-7.34587E-04	+/-	1.7E-04
Sband delay (usec)	-4.27655737740E+03	Apriori clock (usec)	-3.6879646E+01	Resid sbdelay (usec)	9.67561E-01	+/-	1.3E-03
Phase delay (usec)	-4.27752493833E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	-4.31670E-07	+/-	5.8E-07
Delay rate (us/s)	1.74388544776E+00	Apriori rate (us/s)	1.74387805611E+00	Resid rate (us/s)	7.39164E-06	+/-	2.3E-09
Total phase (deg)	-67.7	Apriori accel (us/s/s)	9.68188570369E-06	Resid phase (deg)	-13.4	+/-	17.9

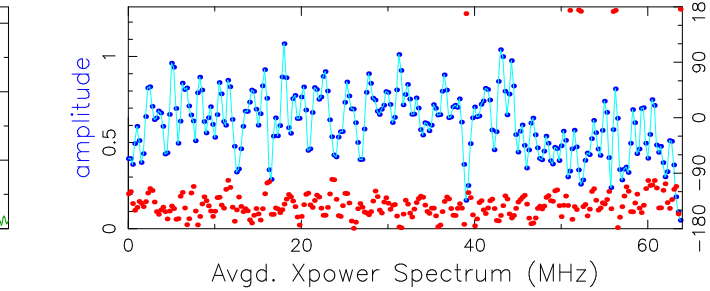
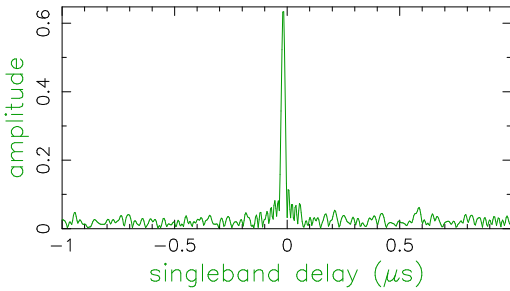
ph/seg (deg)	58.3	RMS	42.9	Theor.	Amplitude	0.134 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.7	Search (2048X32)	0.106	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	33.8	Inc. seg. avg.	0.142	Inc. frq. avg.	0.123	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	39.8	Inc. frq. avg.	0.123	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 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.152.190POF



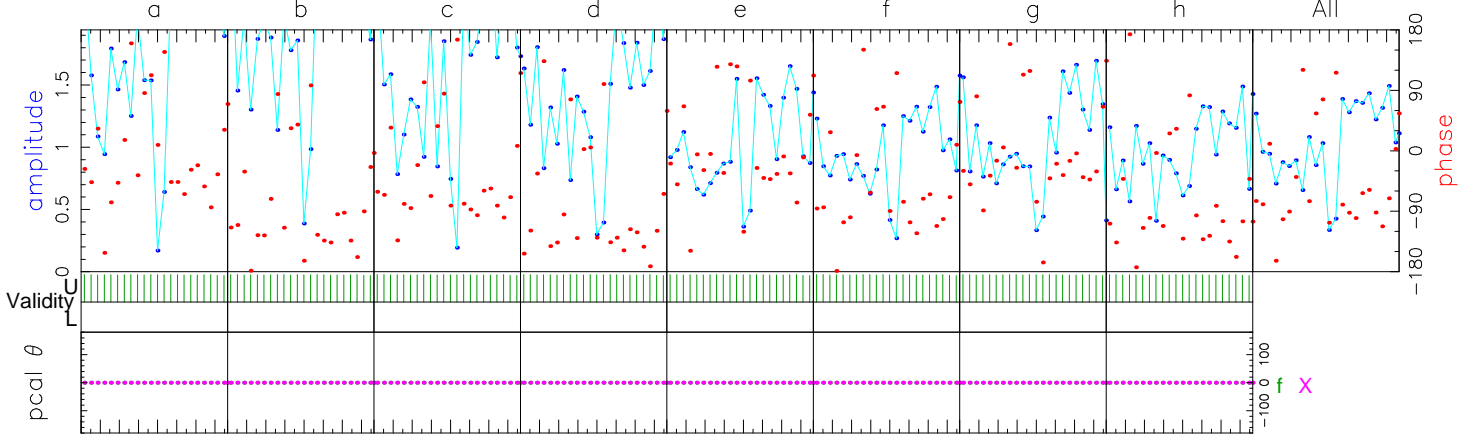
Fringe quality 3

SNR 37.0
Int time 435.123
Amp 0.648
Phase -73.6
PFD 0.0e+00
Delays (us)
SBD -0.017529
MBD 0.007457
Fringe rate (Hz)
-0.005344
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



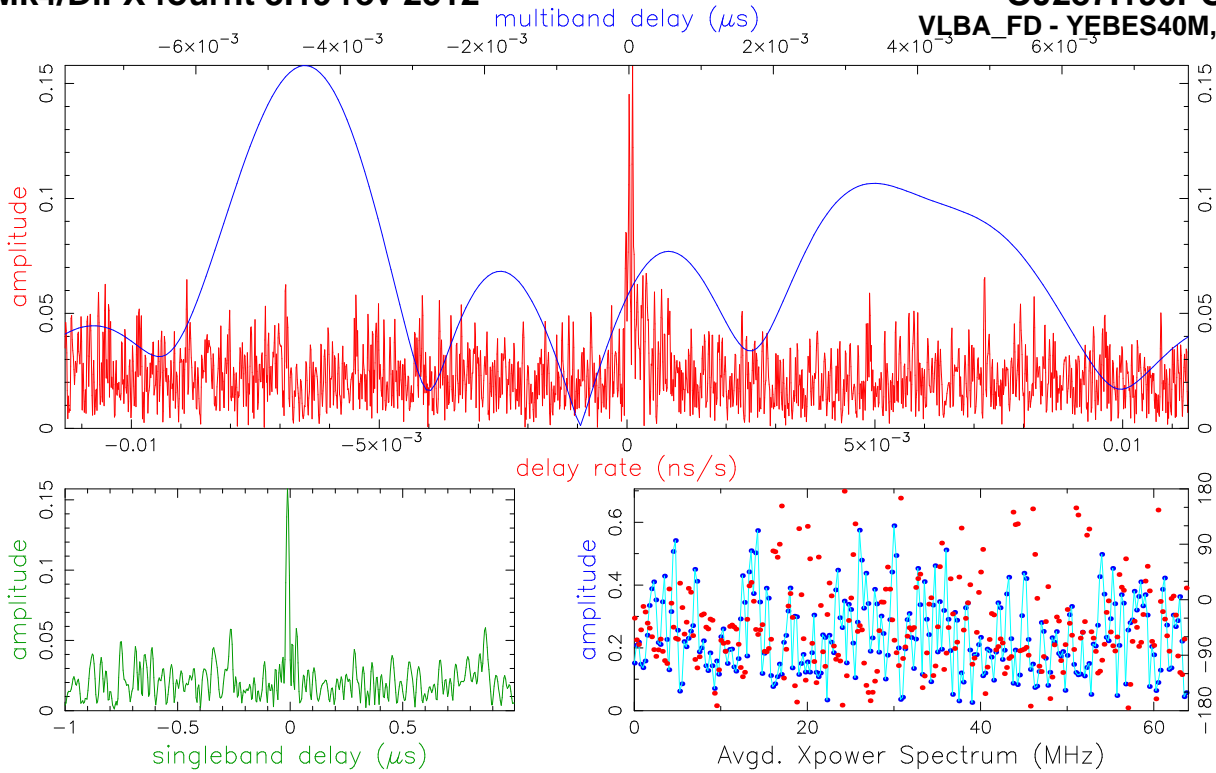
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210537
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-35.7	-110.0	-62.9	-121.9	-19.1	-82.9	-18.8	-112.1	Phase	-73.6
	1.1	1.1	1.1	0.9	0.5	0.5	0.6	0.6	Ampl.	0.8
	252.0	251.7	252.6	252.1	252.6	252.2	252.2	250.9	Sbd box	252.5
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.27754873050E+03		Apriori delay (usec)		-4.27752493790E+03		Resid mbdelay (usec)		7.45740E-03	+/- 2.9E-05
Sband delay (usec)	-4.27754246690E+03		Apriori clock (usec)		-3.6879646E+01		Resid sbdelay (usec)		-1.75290E-02	+/- 2.3E-04
Phase delay (usec)	-4.27752494028E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-2.37428E-06	+/- 1.0E-07
Delay rate (us/s)	1.74387799407E+00		Apriori rate (us/s)		1.74387805611E+00		Resid rate (us/s)		-6.20392E-08	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		9.68188570369E-06		Resid phase (deg)		-73.6	+/- 3.1

ph/seg (deg) 75.1 7.4 Search (2048X32) 0.594 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.1 13.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 46.1 4.4 Inc. seg. avg. 1.027 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.6 7.7 Inc. frq. avg. 0.804 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 80.8 el 25.4 pa -64.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.91.190POF

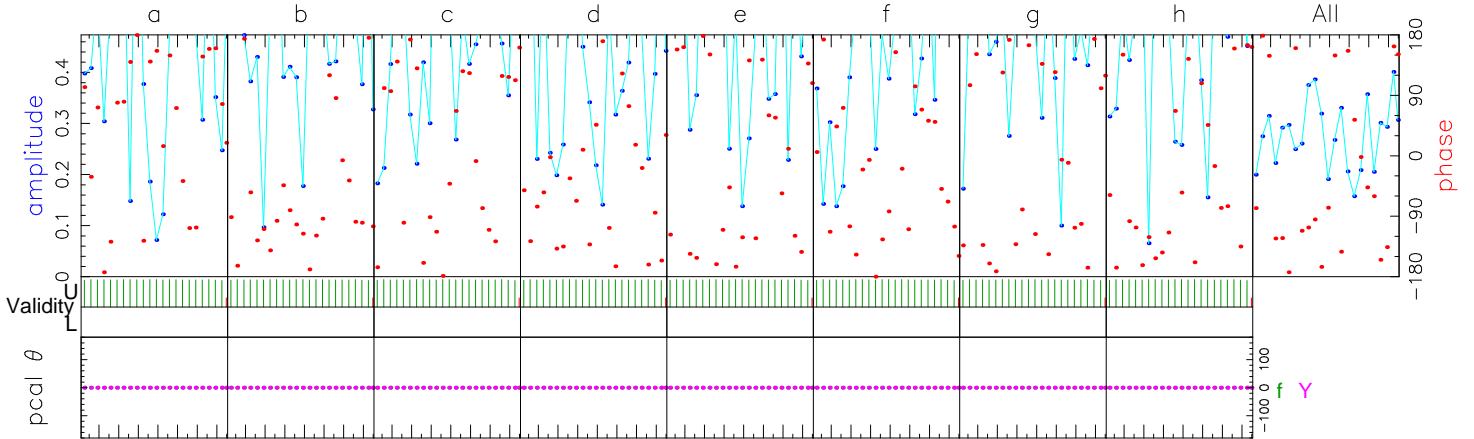


Fringe quality 9

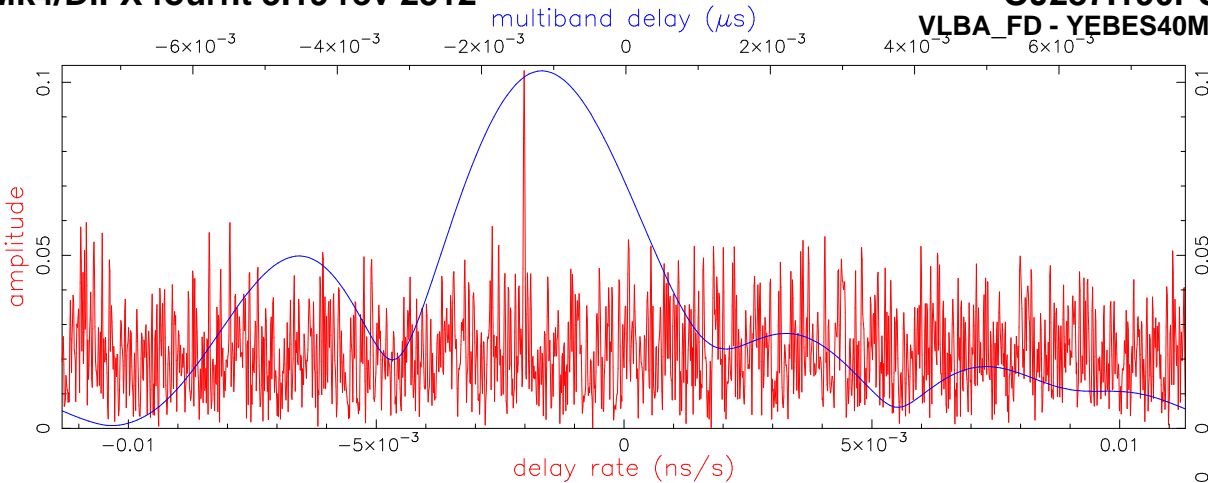
SNR 8.9
 Int time 429.573
 Amp 0.158
 Phase -142.8
 PFD 1.4×10^{-10}
 Delays (us)
 SBD -0.011454
 MBD -0.004477
 Fringe rate (Hz)
 0.009443
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210542
 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

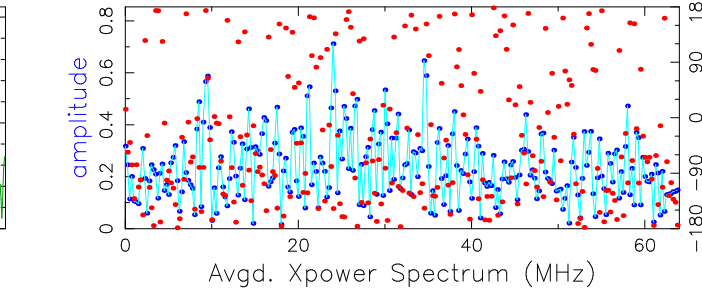
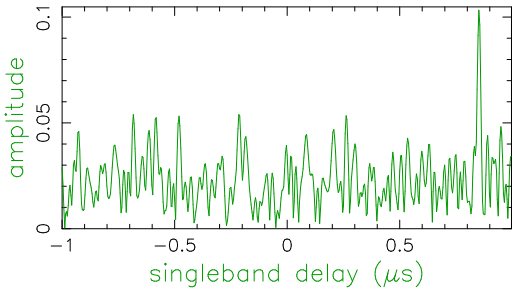


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-8.39357485345E+03									
Sband delay (usec)	-8.39358183012E+03									
Phase delay (usec)	-8.39357038122E+03									
Delay rate (us/s)	1.74470695864E+00									
Total phase (deg)			-229.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	0.158 +/- 0.018									
Search (2048X32)	0.156									
Interp.	0.000									
Inc. seg. avg.	0.243									
Inc. frq. avg.	0.201									
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								



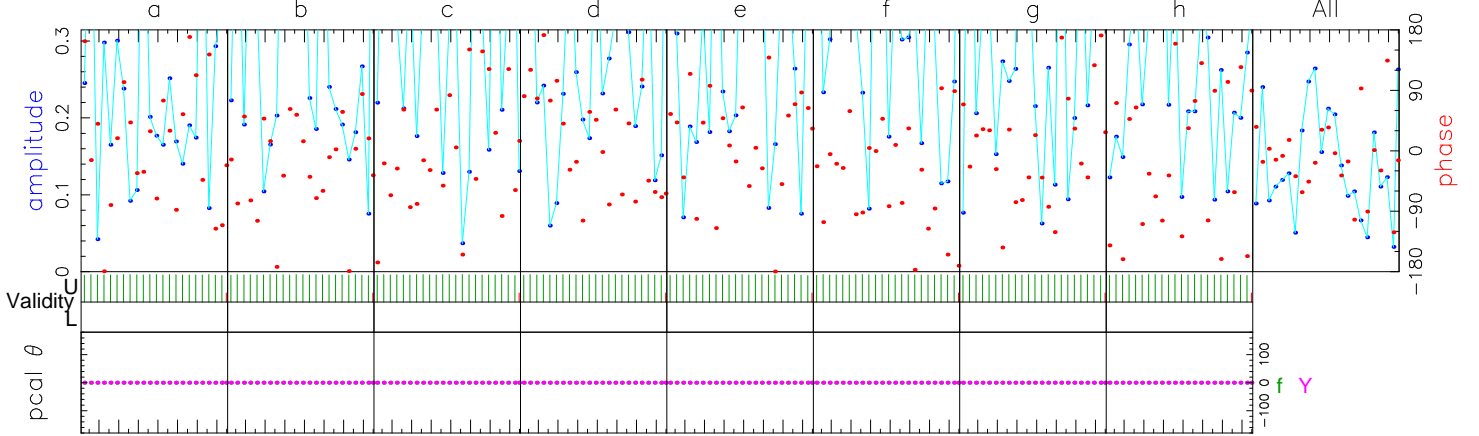
Fringe quality 0

SNR 5.9
 Int time 429.573
 Amp 0.105
 Phase -12.1
 PFD 6.8e-01
 Delays (us)
 SBD 0.852132
 MBD -0.001158
 Fringe rate (Hz)
 -0.173846
 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
 2020:202:210546
 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

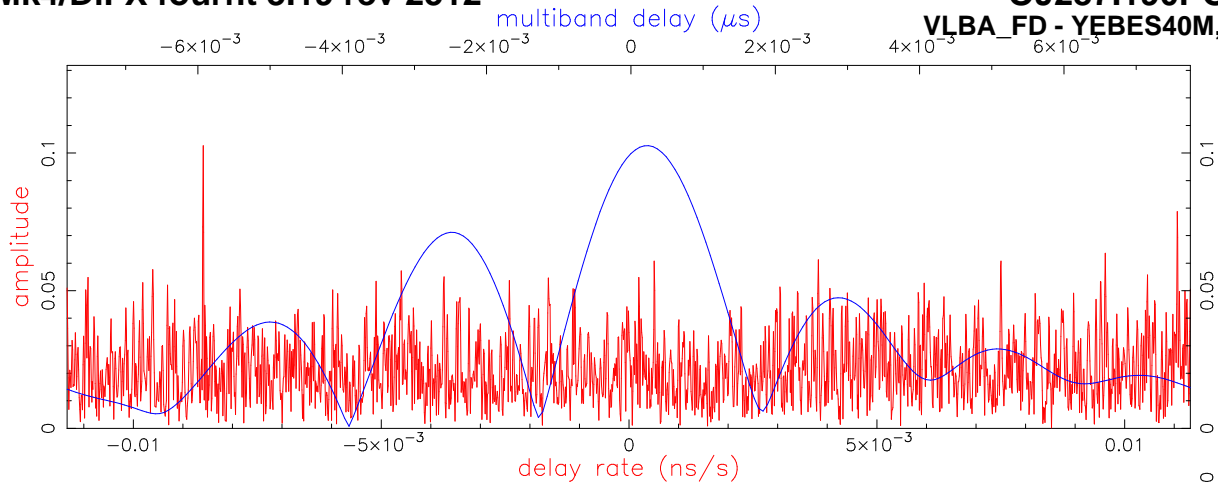


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-26.9	-21.6	-16.0	15.3	25.6	-22.5	-24.7	-137.1	Phase	-12.1
	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.0	Ampl.	0.1
	373.8	473.9	200.7	393.4	19.4	472.2	186.5	334.5	Sbd box	475.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.39271215986E+03		Apriori delay (usec)		-8.39357037662E+03		Resid mbdelay (usec)		-1.15824E-03	+/- 1.9E-04
Sband delay (usec)	-8.39271824412E+03		Apriori clock (usec)		-8.0683041E+00		Resid sbdelay (usec)		8.52132E-01	+/- 1.5E-03
Phase delay (usec)	-8.39357037701E+03		Apriori clockrate (us/s)		-1.1100000E-07		Resid phdelay (usec)		-3.90601E-07	+/- 6.3E-07
Delay rate (us/s)	1.74470483082E+00		Apriori rate (us/s)		1.74470684901E+00		Resid rate (us/s)		-2.01819E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		3.91754590376E-05		Resid phase (deg)		-12.1	+/- 19.5

	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)	56.3	46.8	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	72.8	81.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	55.3	27.6	Inc. seg. avg.	0.105	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.0	48.2	Inc. frq. avg.	0.105	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

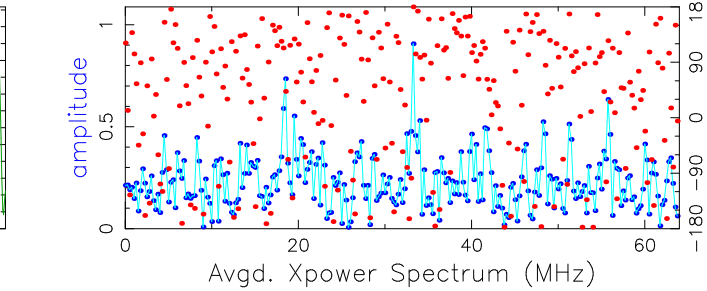
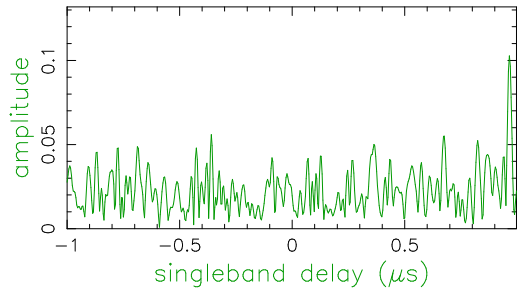
f: az 80.8 el 25.4 pa -64.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10567.477 14.088 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fY..190POF Output file: /Exps/c201c/v1/1234/No0032/fY.W.130.190POF



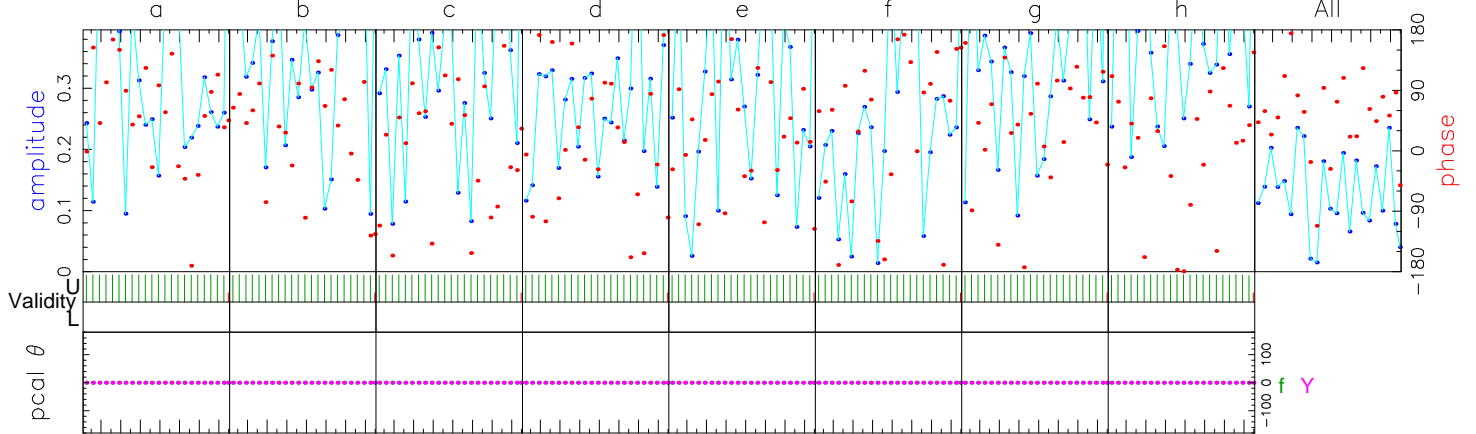
Fringe quality 0

SNR 5.8
Int time 429.573
Amp 0.132
Phase 64.0
PFD 7.6e-01
Delays (us)
SBD 0.965201
MBD 0.000233
Fringe rate (Hz)
-0.740971
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
2020:202:210550
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

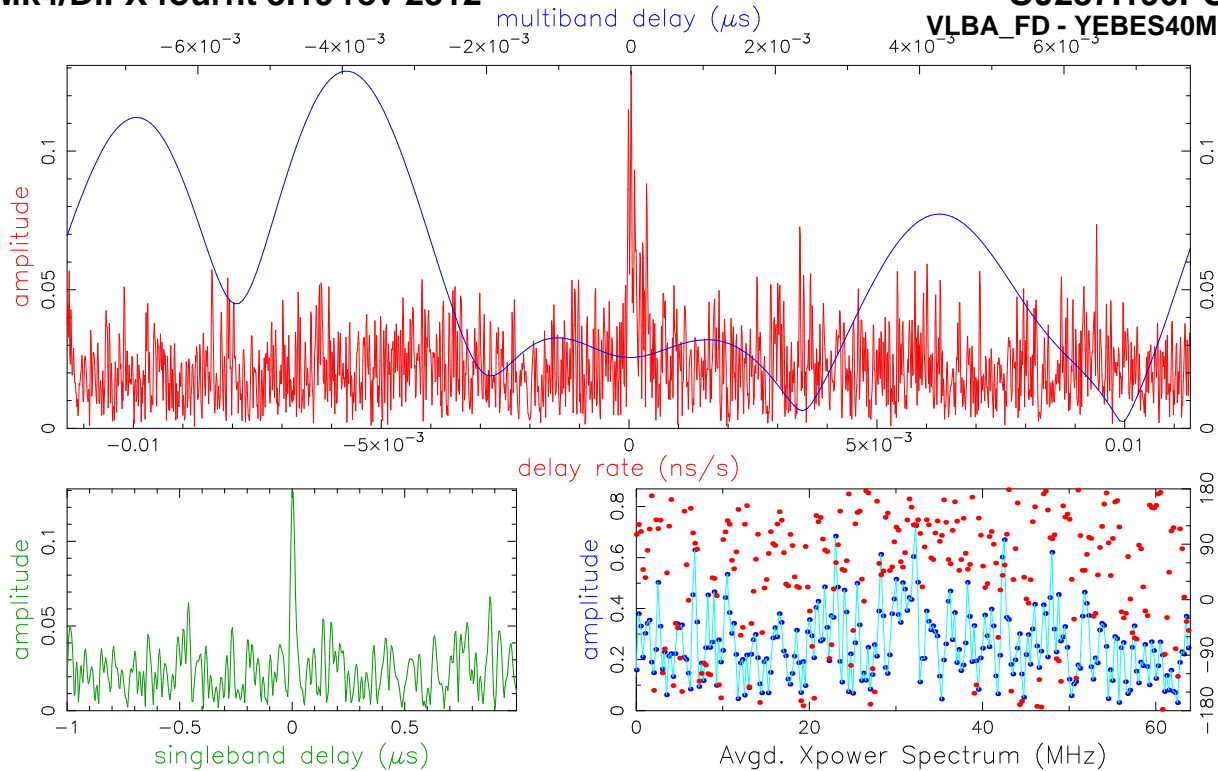


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-8.39260139313E+03				-8.39357037662E+03				2.33483E-04	+/- 1.9E-04
Sband delay (usec)	-8.39260517562E+03				-8.0683041E+00				9.65201E-01	+/- 1.5E-03
Phase delay (usec)	-8.39357037455E+03				-1.1100000E-07				2.06238E-06	+/- 6.3E-07
Delay rate (us/s)	1.74469824707E+00				1.74470684901E+00				-8.60194E-06	+/- 2.5E-09
Total phase (deg)			-23.0		3.91754590376E-05				64.0	+/- 19.7
Apriori delay (usec)					0.100					
Apriori clock (usec)					0.100					
Apriori clockrate (us/s)					0.000E+00					
Apriori rate (us/s)					0.000E+00					
Apriori accel (us/s/s)					0.000E+00					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
SampCntNorm: enabled									-0.008	0.008
mb window (us)									-0.011	0.011
dr window (ns/s)									0.00	0.00
ion window (TEC)									0.00	0.00

ph/seg (deg) 59.3 47.2 Search (2048X32) 0.132 +/- 0.023 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.6 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.6 27.8 Inc. seg. avg. 0.126 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.1 48.6 Inc. frq. avg. 0.124 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10567.477 14.088 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fY..190POF Output file: /Exps/c201c/v1/1234/No0032/fY.W.145.190POF

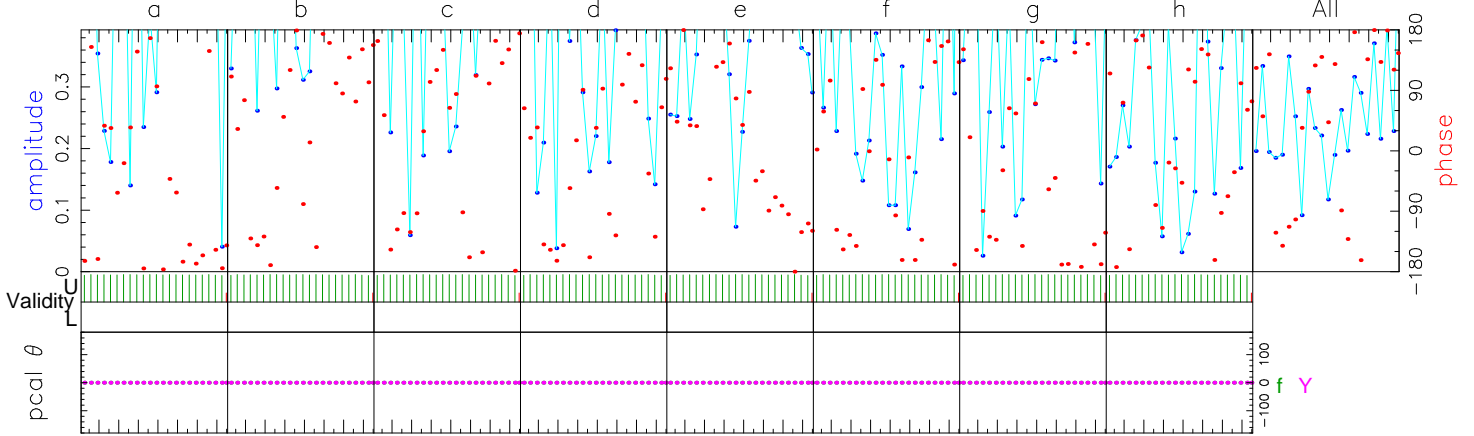
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fY
VLBA_FD - YEBES40M, fgroup W, pol LL



Fringe quality 9
SNR 7.4
Int time 429.573
Amp 0.131
Phase 165.2
PFD 3.7e-05
Delays (us)
SBD 0.001952
MBD -0.003921
Fringe rate (Hz) 0.003661
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
2020:202:210537
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

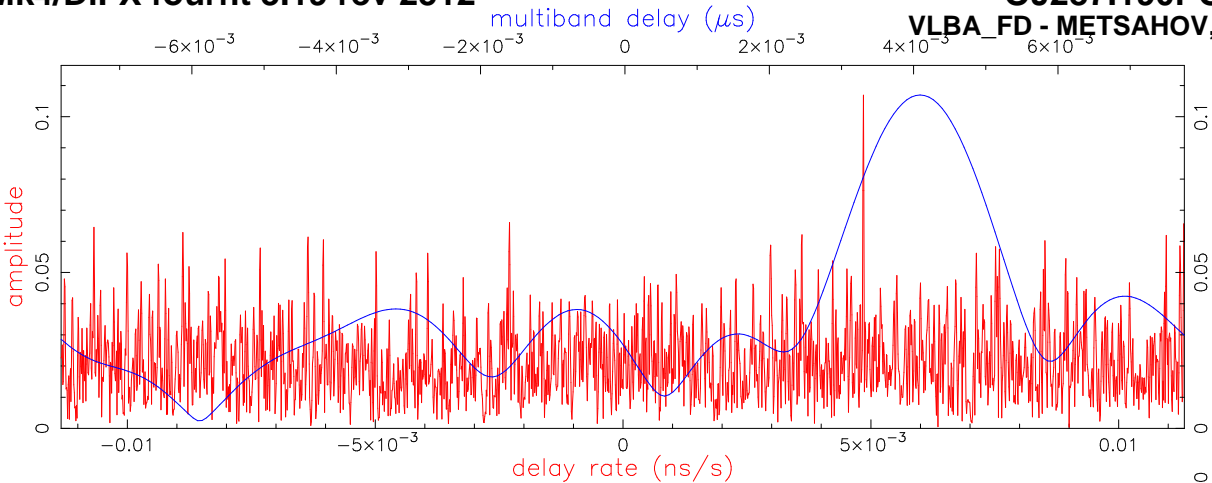


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-160.3	134.5	160.3	95.8	-89.7	161.6	-176.6	132.7	Phase	165.2
	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.2
	257.9	257.0	257.4	242.1	343.9	239.9	131.1	139.2	Sbd box	257.5
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-8.39357429786E+03	Apriori delay (usec)	-8.39357037662E+03	Resid mbdelay (usec)	-3.92125E-03	+/-	1.5E-04
Sband delay (usec)	-8.39356842437E+03	Apriori clock (usec)	-8.0683041E+00	Resid sbdelay (usec)	1.95225E-03	+/-	1.2E-03
Phase delay (usec)	-8.39357037129E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	5.32580E-06	+/-	5.0E-07
Delay rate (us/s)	1.74470689150E+00	Apriori rate (us/s)	1.74470684901E+00	Resid rate (us/s)	4.24950E-08	+/-	2.0E-09
Total phase (deg)		Apriori accel (us/s/s)	3.91754590376E-05	Resid phase (deg)	165.2	+/-	15.4

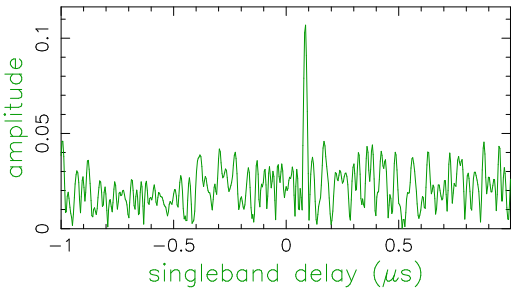
ph/seg (deg)	RMS 67.5	Theor. 37.0	Amplitude Search (2048X32)	0.131 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	108.8	64.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	56.9	21.8	Inc. seg. avg.	0.205	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	58.5	38.1	Inc. frq. avg.	0.158	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

f: az 80.8 el 25.4 pa -64.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10567.477 14.088 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fY..190POF Output file: /Exps/c201c/v1/1234/No0032/fY.W.89.190POF

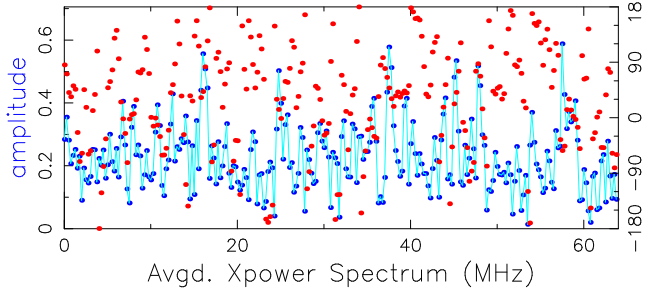


Fringe quality 0

SNR 6.2
 Int time 434.596
 Amp 0.116
 Phase -107.8
 PFD 1.9e-01
 Delays (us)
 SBD 0.084740
 MBD 0.004048
 Fringe rate (Hz)
 0.417890
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

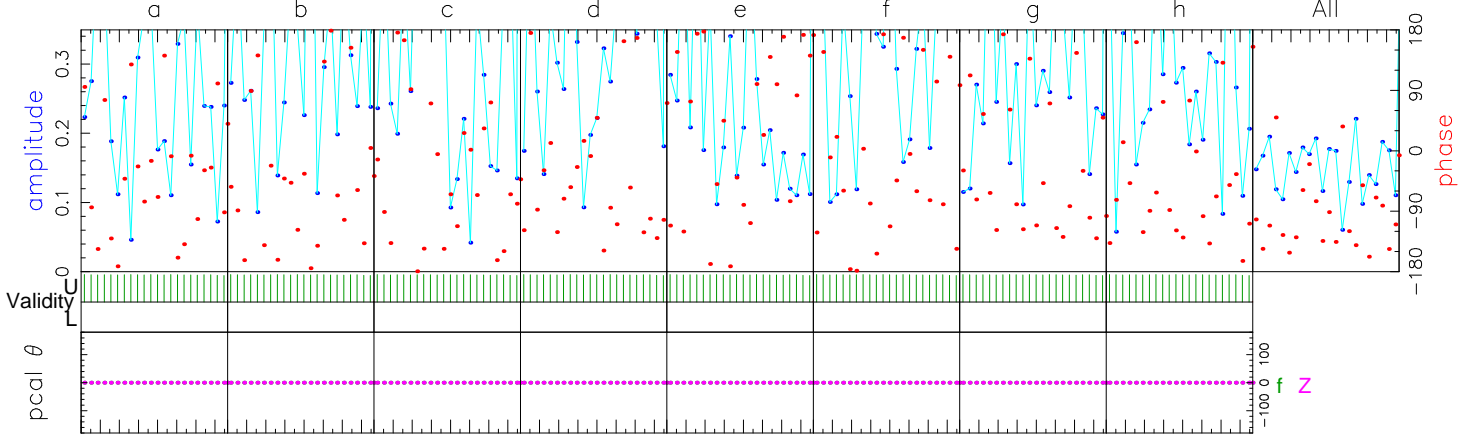


delay rate (ns/s)



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

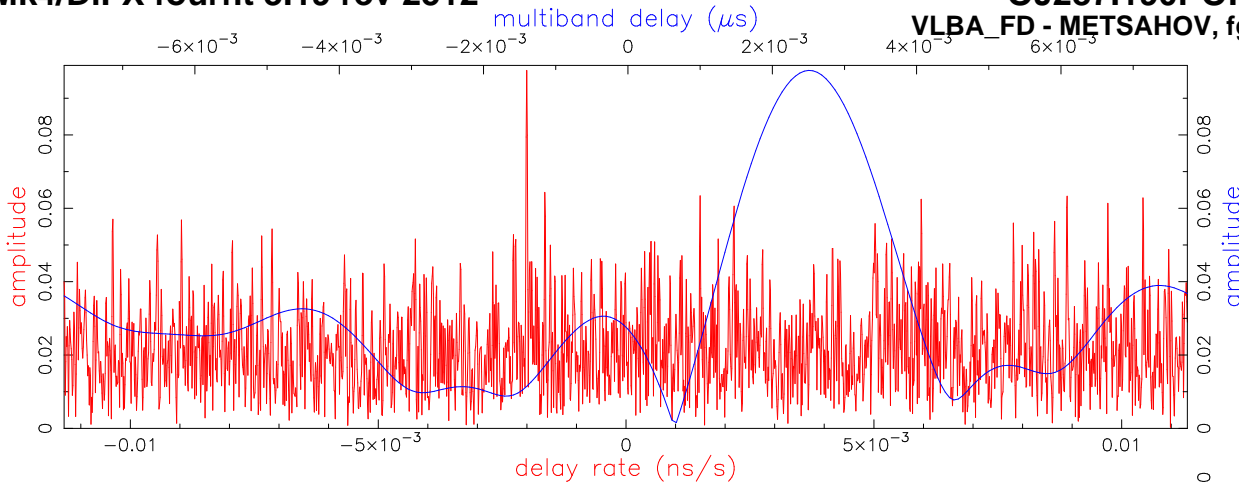
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



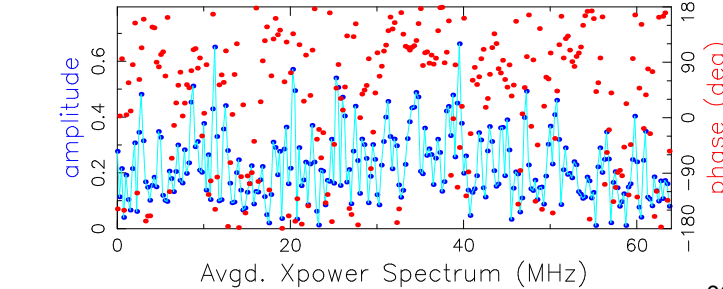
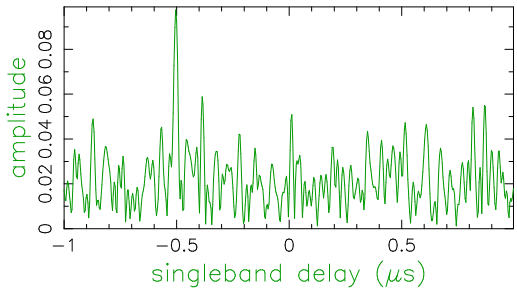
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-79.7	-115.1	-115.0	-96.3	-167.5	-127.9	-104.6	-78.8	Phase	-107.8
	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	Ampl.	0.1
	299.4	342.1	194.7	26.1	290.8	346.6	107.3	116.1	Sbd box	278.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-2.13611001937E+03	Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	4.04771E-03	+/-	1.8E-04
Sband delay (usec)	-2.13610745183E+03	Apriori clock (usec)	4.0260115E+00	Resid sbdelay (usec)	8.47403E-02	+/-	1.4E-03
Phase delay (usec)	-2.13619219555E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-3.47645E-06	+/-	6.0E-07
Delay rate (us/s)	1.79793810055E+00	Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	4.85129E-06	+/-	2.4E-09
Total phase (deg)	-261.0	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	-107.8	+/-	18.6

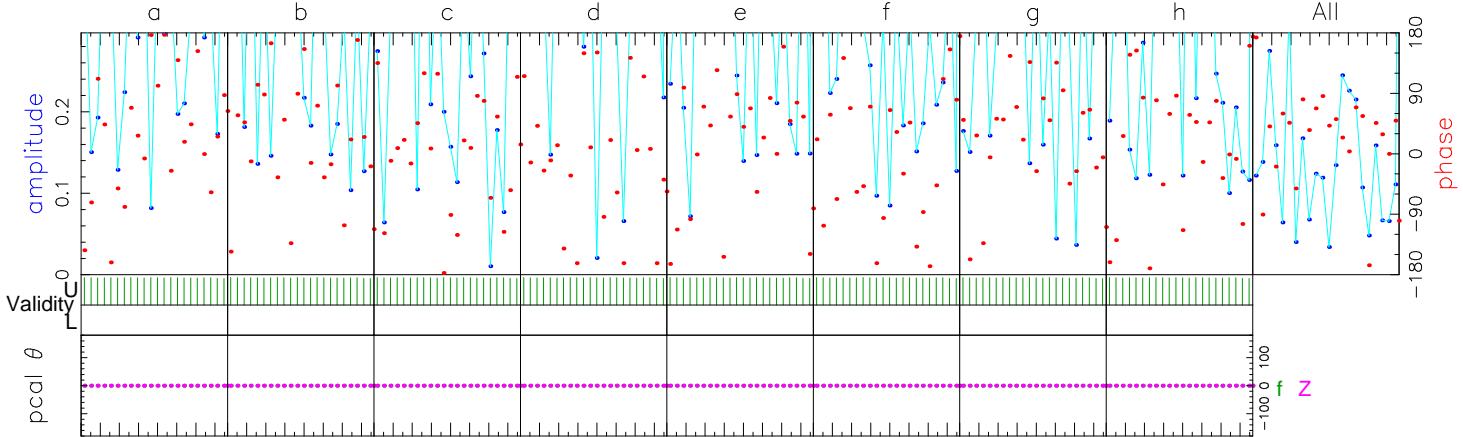
ph/seg (deg)	57.8	Theor.	44.7	Amplitude	0.116 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	53.4		78.0	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	31.2		26.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.8		46.0	Inc. seg. avg.	0.125	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.116	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		



Fringe quality 0
SNR 5.6
Int time 434.596
Amp 0.099
Phase 41.7
PFD 1.0e+00
Delays (us)
SBD -0.503407
MBD 0.002530
Fringe rate (Hz)
-0.172692
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

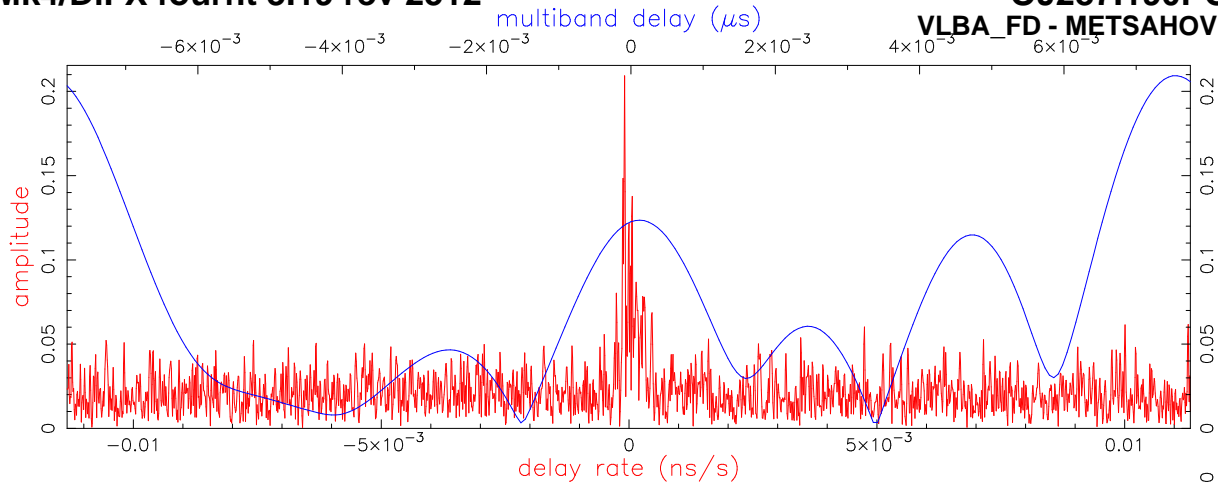


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.13668966179E+03	Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	2.53028E-03	+/-	1.9E-04
Sband delay (usec)	-2.13669559908E+03	Apriori clock (usec)	4.0260115E+00	Resid sbdelay (usec)	-5.03407E-01	+/-	1.5E-03
Phase delay (usec)	-2.13619219073E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	1.34454E-06	+/-	6.6E-07
Delay rate (us/s)	1.79793124447E+00	Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	-2.00478E-06	+/-	2.6E-09
Total phase (deg)	-111.5	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	41.7	+/-	20.6

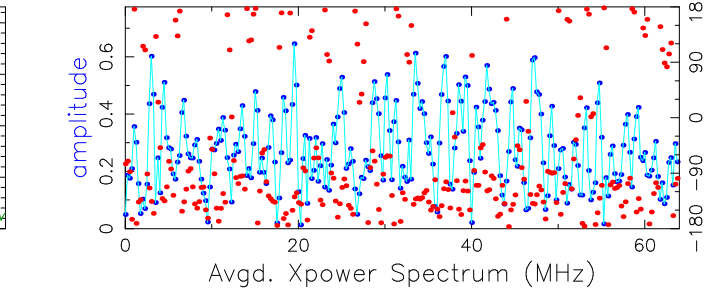
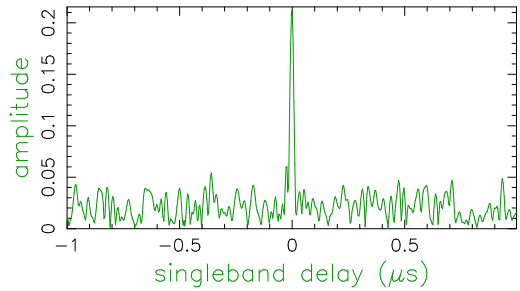
ph/seg (deg)	60.4	RMS	49.3	Theor.	60.4	Amplitude	0.099 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	90.5	Search (2048X32)	0.097	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled	sb window (us)	-1.000 1.000
ph/frq (deg)	23.8	Inc. seg. avg.	0.102	Inc. frq. avg.	0.093	Bits/sample: 2x2		Sample rate(MISamp/s): 128	mb window (us)	-0.008 0.008
amp/frq (%)	40.1	Inc. frq. avg.	0.093			Data rate(Mb/s): 2048		nlags: 256	dr window (ns/s)	-0.011 0.011

f: az 80.8 el 25.4 pa -64.7 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10958.315 -2995.651 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fZ..190POF Output file: /Exps/c201c/v1/1234/No0032/fZ.W.141.190POF



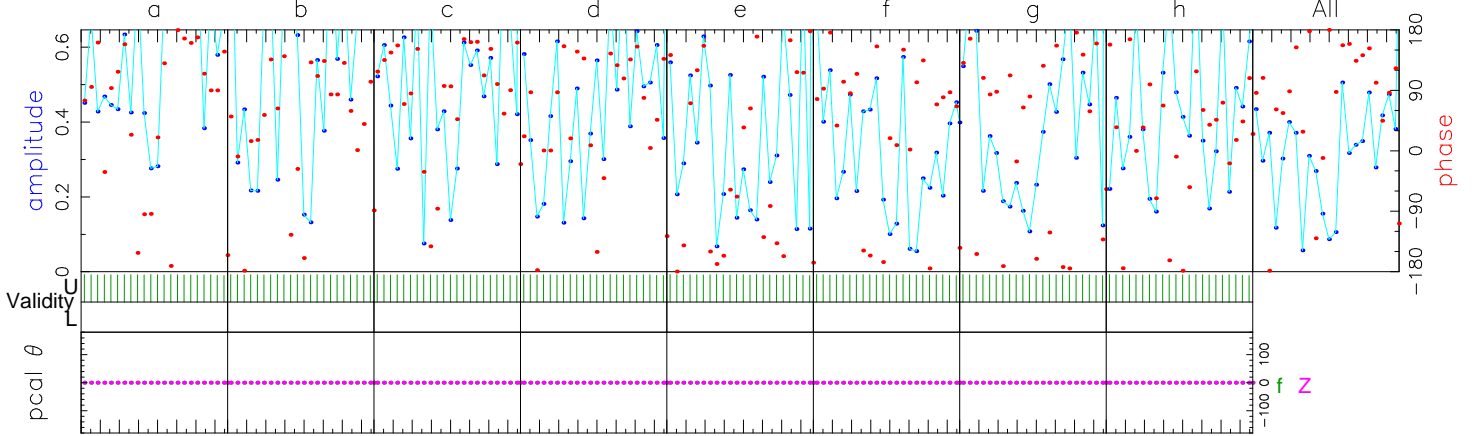
Fringe quality 9

SNR 12.3
 Int time 434.596
 Amp 0.215
 Phase 123.3
 PFD 5.9e-26
 Delays (us)
 SBD -0.001685
 MBD 0.007585
 Fringe rate (Hz)
 -0.007241
 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
 2020:202:210536
 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		
f	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.13620023235E+03	Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	7.58473E-03	+/-	8.8E-05
Sband delay (usec)	-2.13619387733E+03	Apriori clock (usec)	4.0260115E+00	Resid sbdelay (usec)	-1.68525E-03	+/-	7.0E-04
Phase delay (usec)	-2.13619218810E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	3.97517E-06	+/-	3.0E-07
Delay rate (us/s)	1.79793316519E+00	Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	-8.40647E-08	+/-	1.2E-09
Total phase (deg)	-29.9	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	123.3	+/-	9.3

ph/seg (deg)	57.8	Theor.	22.4	Amplitude	0.215 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	74.7	Search (2048X32)	0.194	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)	40.2	Inc. seg. avg.	0.288	Inc. frq. avg.	0.241	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.1	Inc. frq. avg.	0.241			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 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10958.315 -2995.651 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fZ..190POF Output file: /Exps/c201c/v1/1234/No0032/fZ.W.86.190POF