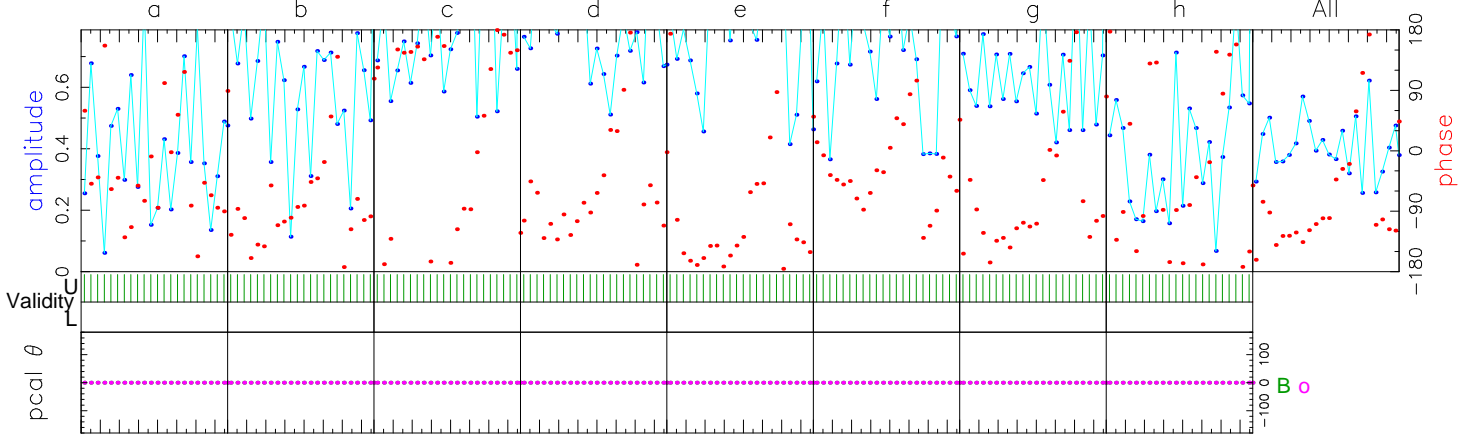


Fringe quality 7

SNR 15.0
Int time 439.713
Amp 0.262
Phase -111.2
PFD 2.5e-42
Delays (us)
SBD 0.006973
MBD -0.002940
Fringe rate (Hz)
-0.003373
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120751
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

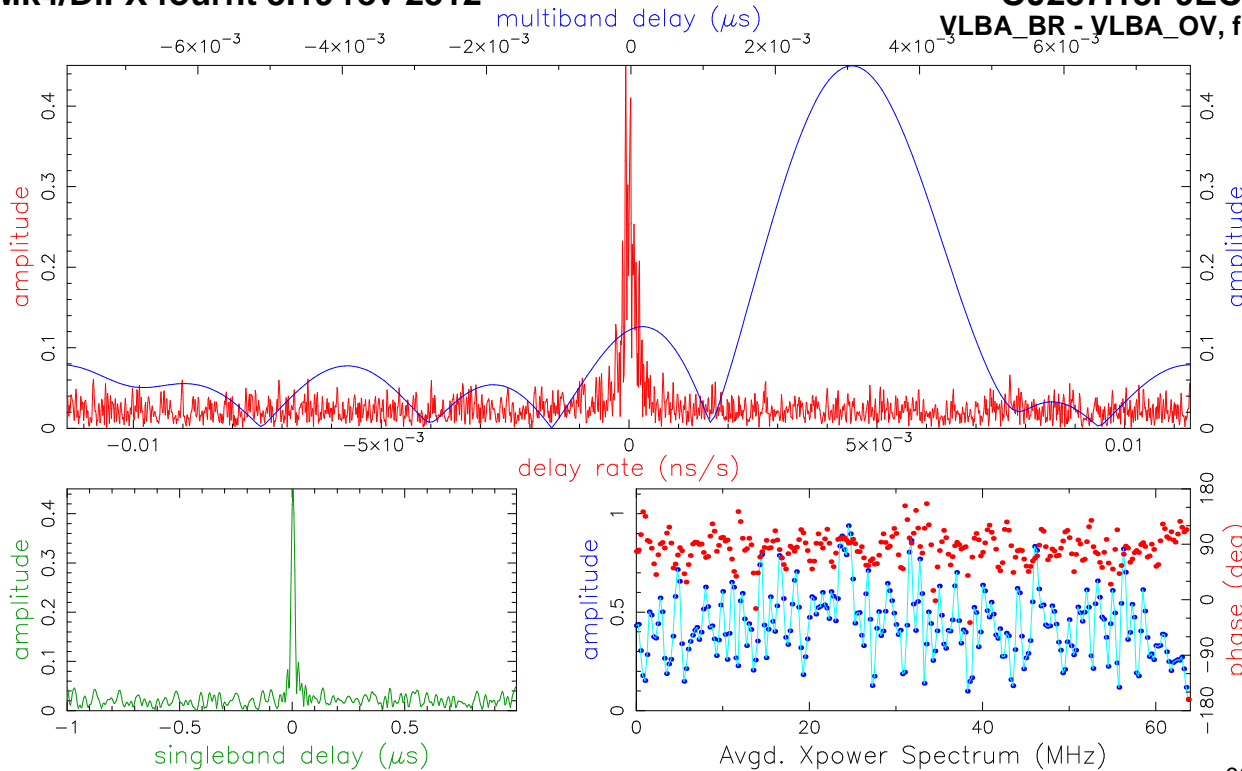


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-71.6	-99.9	168.7	-90.9	-139.6	-27.1	-113.7	-149.1	Phase	-111.2
	0.2	0.4	0.5	0.5	0.5	0.5	0.4	0.2	Ampl.	0.4
	256.3	257.8	258.7	259.8	259.7	259.2	257.5	255.7	Sbd box	258.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.87607462295E+03		Apriori delay (usec)		-2.87608730747E+03		Resid mbdelay (usec)		-2.94048E-03	+/- 7.2E-05
Sband delay (usec)	-2.87608033472E+03		Apriori clock (usec)		-7.0079451E+00		Resid sbdelay (usec)		6.97275E-03	+/- 5.7E-04
Phase delay (usec)	-2.87608731105E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		-3.58626E-06	+/- 2.5E-07
Delay rate (us/s)	-1.83494236475E+00		Apriori rate (us/s)		-1.83494232560E+00		Resid rate (us/s)		-3.91521E-08	+/- 9.7E-10
Total phase (deg)			Apriori accel (us/s/s)		2.17072135213E-05		Resid phase (deg)		-111.2	+/- 7.6

	RMS	Theor.	Amplitude	0.262 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	60.2	18.3	Search (2048X32)	0.243	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	66.3	31.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	54.5	10.8	Inc. seg. avg.	0.390	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	67.1	18.8	Inc. frq. avg.	0.377	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 265.9 el 29.7 pa 42.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 11218.184 1949.849 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bo.W.12.18P9EC

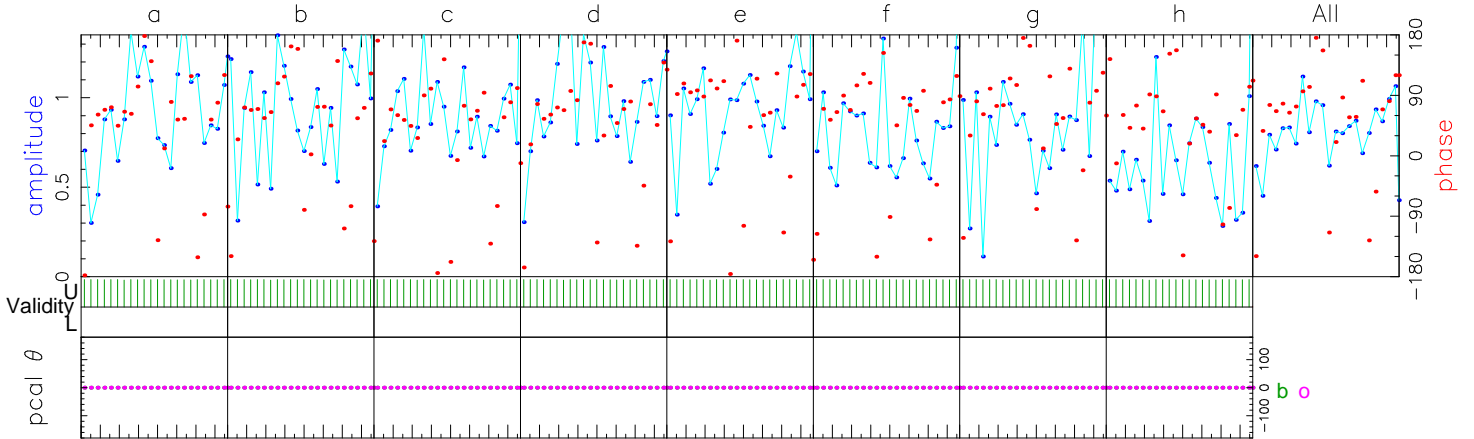


Fringe quality 7

SNR 25.7
Int time 436.707
Amp 0.451
Phase 89.2
PFD 0.0e+00
Delays (us)
SBD 0.003441
MBD 0.003045
Fringe rate (Hz)
-0.005857
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120752
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



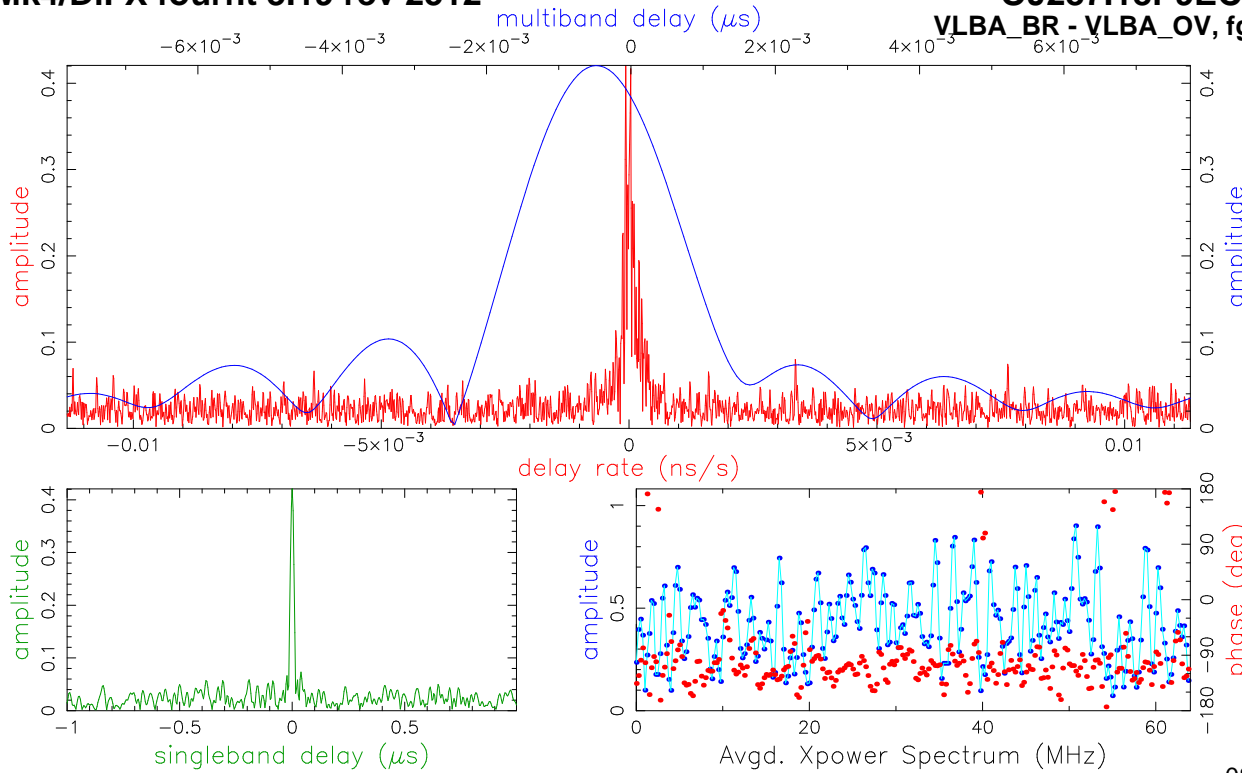
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-6.95128816687E+02	Apriori delay (usec)	-6.95131862152E+02	Resid mbdelay (usec)	3.04547E-03	+/-	4.2E-05
Sband delay (usec)	-6.95128421402E+02	Apriori clock (usec)	-2.1468208E+01	Resid sbdelay (usec)	3.44075E-03	+/-	3.3E-04
Phase delay (usec)	-6.95131859277E+02	Apriori clockrate (us/s)	-2.4300001E-07	Resid phdelay (usec)	2.87501E-06	+/-	1.4E-07
Delay rate (us/s)	-1.43774957172E-01	Apriori rate (us/s)	-1.43774889178E-01	Resid rate (us/s)	-6.79932E-08	+/-	5.7E-10
Total phase (deg)	-128.9	Apriori accel (us/s/s)	8.97857382722E-06	Resid phase (deg)	89.2	+/-	4.5

ph/seg (deg)	69.5	Theor.	10.7	Amplitude	0.451 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	89.5		18.6	Search (2048X32)	0.443	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	12.5		6.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	13.0		11.0	Inc. seg. avg.	0.811	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.455	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.13.18P9EC

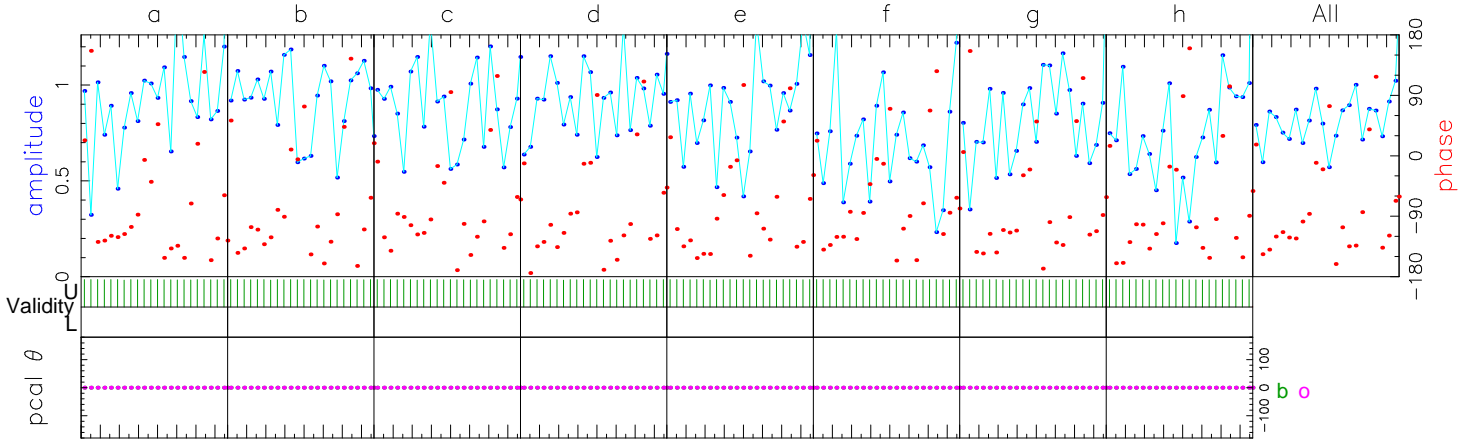


Fringe quality 7

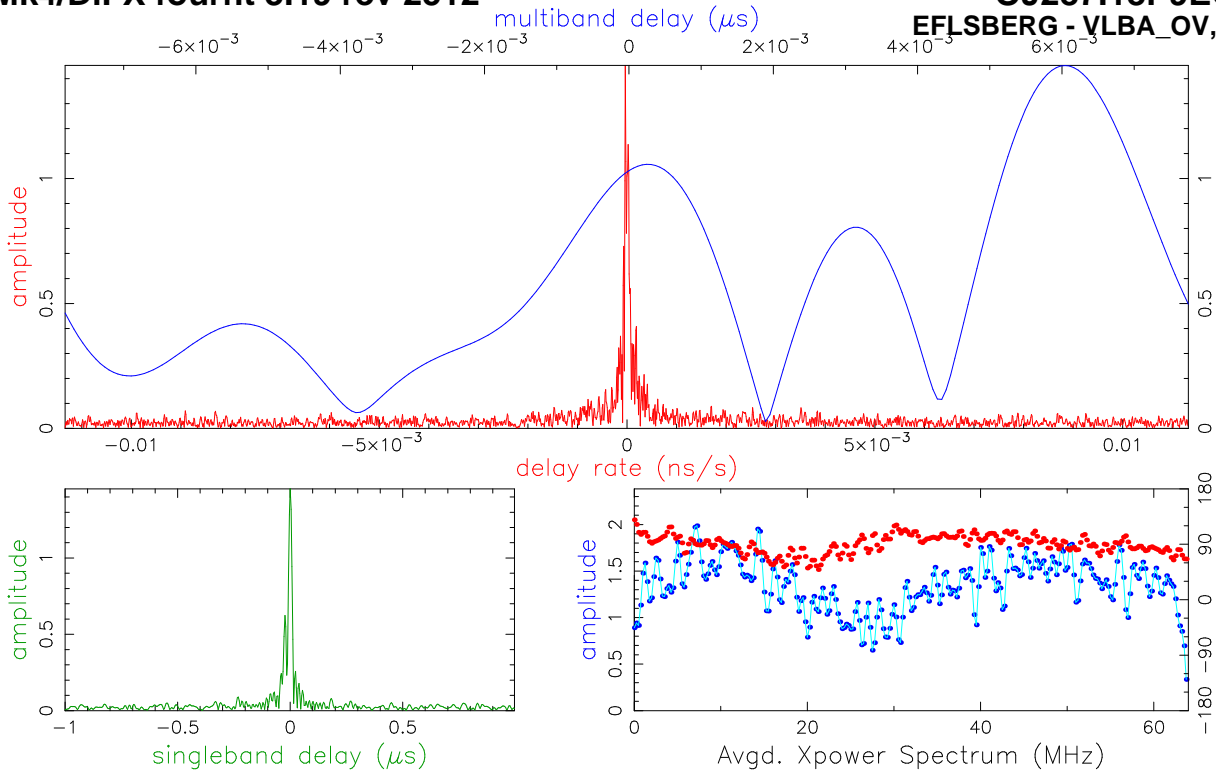
SNR 24.0
Int time 436.707
Amp 0.421
Phase -106.1
PFD 0.0e+00
Delays (us)
SBD -0.000219
MBD -0.000484
Fringe rate (Hz)
-0.005819
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
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

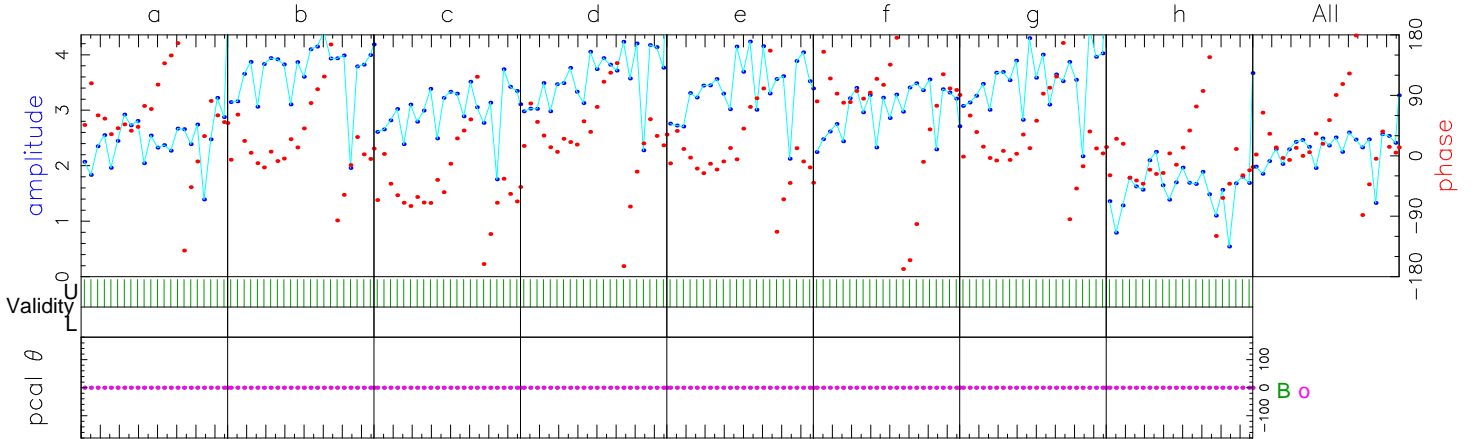


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.95132346093E+02	-6.95132081402E+02	-6.95131865575E+02	-6.95131862152E+02	-6.95131862152E+02	-6.95131862152E+02	-6.95131862152E+02	-6.95131862152E+02		
Sband delay (usec)	-6.95132081402E+02	-6.95132081402E+02	-6.95131865575E+02	-6.95131862152E+02	-6.95131862152E+02	-6.95131862152E+02	-6.95131862152E+02	-6.95131862152E+02		
Phase delay (usec)	-6.95131865575E+02	-6.95131865575E+02	-6.95131865575E+02	-6.95131865575E+02	-6.95131865575E+02	-6.95131865575E+02	-6.95131865575E+02	-6.95131865575E+02		
Delay rate (us/s)	-1.43774956727E-01	-1.43774956727E-01	-1.43774956727E-01	-1.43774956727E-01	-1.43774956727E-01	-1.43774956727E-01	-1.43774956727E-01	-1.43774956727E-01		
Total phase (deg)			-324.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										



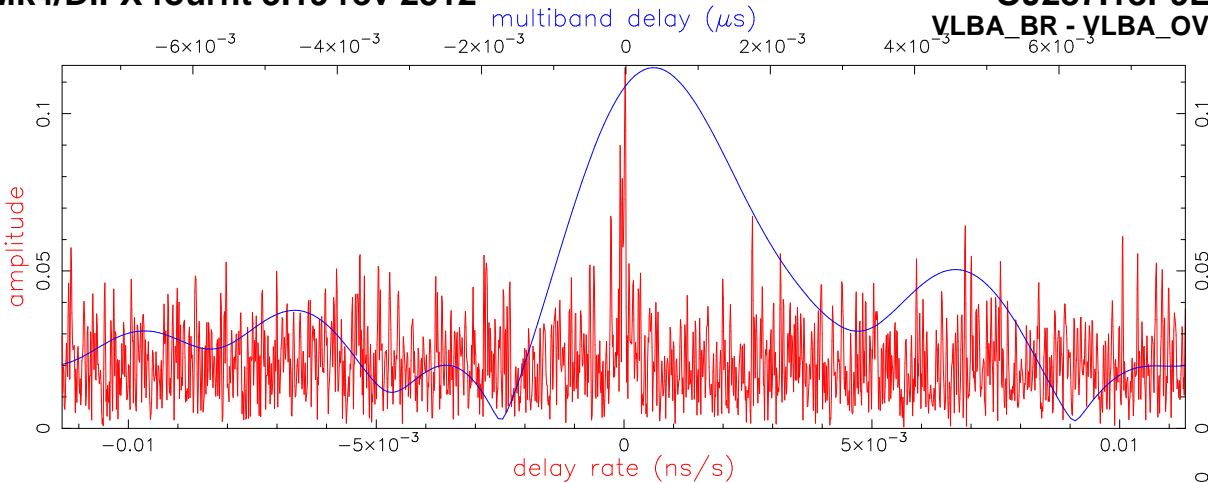
Fringe quality 1
SNR 83.3
Int time 439.713
Amp 1.453
Phase 23.1
PFD 0.0e+00
Delays (us)
SBD 0.000205
MBD 0.006052
Fringe rate (Hz)
-0.003251
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
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

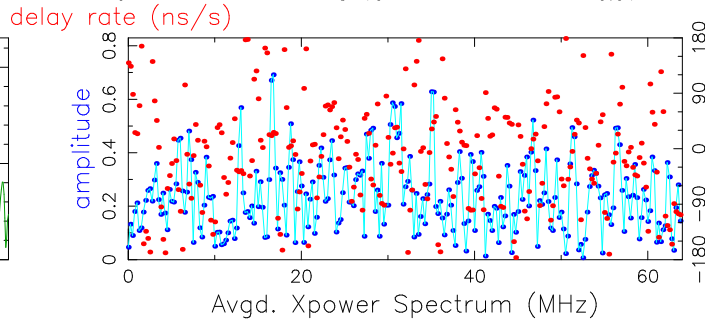
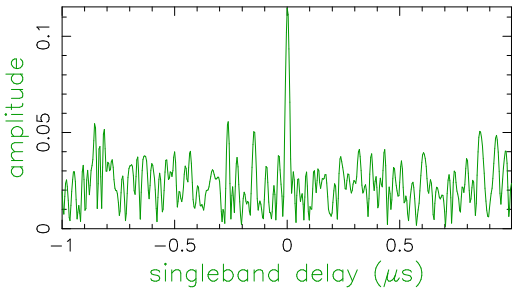


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.87608125527E+03								6.05220E-03	+/- 1.3E-05
Sband delay (usec)	-2.87608710222E+03								2.05250E-04	+/- 1.0E-04
Phase delay (usec)	-2.87608730672E+03								7.43865E-07	+/- 4.4E-08
Delay rate (us/s)	-1.83494236334E+00								-3.77371E-08	+/- 1.7E-10
Total phase (deg)			-216.4						23.1	+/- 1.4
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
nlags: 256										
t_cohere infinite										

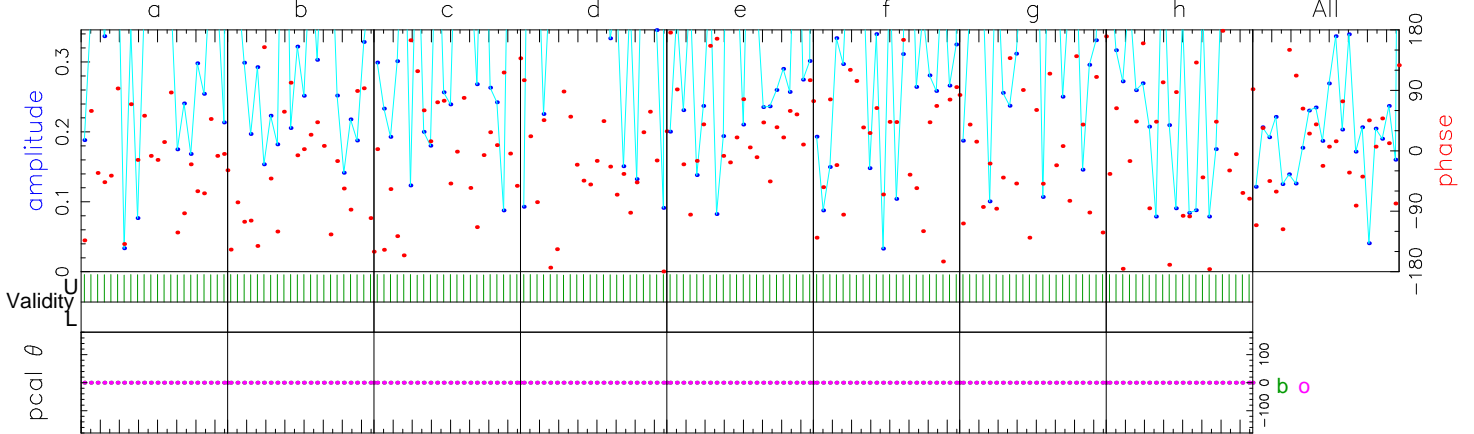
ph/seg (deg) 56.2 3.3 Search (2048X32) 1.356 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 60.3 5.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 50.6 1.9 Inc. seg. avg. 2.275 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 41.9 3.4 Inc. frq. avg. 1.910 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 265.9 el 29.7 pa 42.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 11218.184 1949.849 simultaneous interpolator



Fringe quality 0
SNR 6.6
Int time 436.707
Amp 0.115
Phase 0.1
PFD 1.2e-02
Delays (us)
SBD 0.001167
MBD 0.000357
Fringe rate (Hz) 0.002328
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120800
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

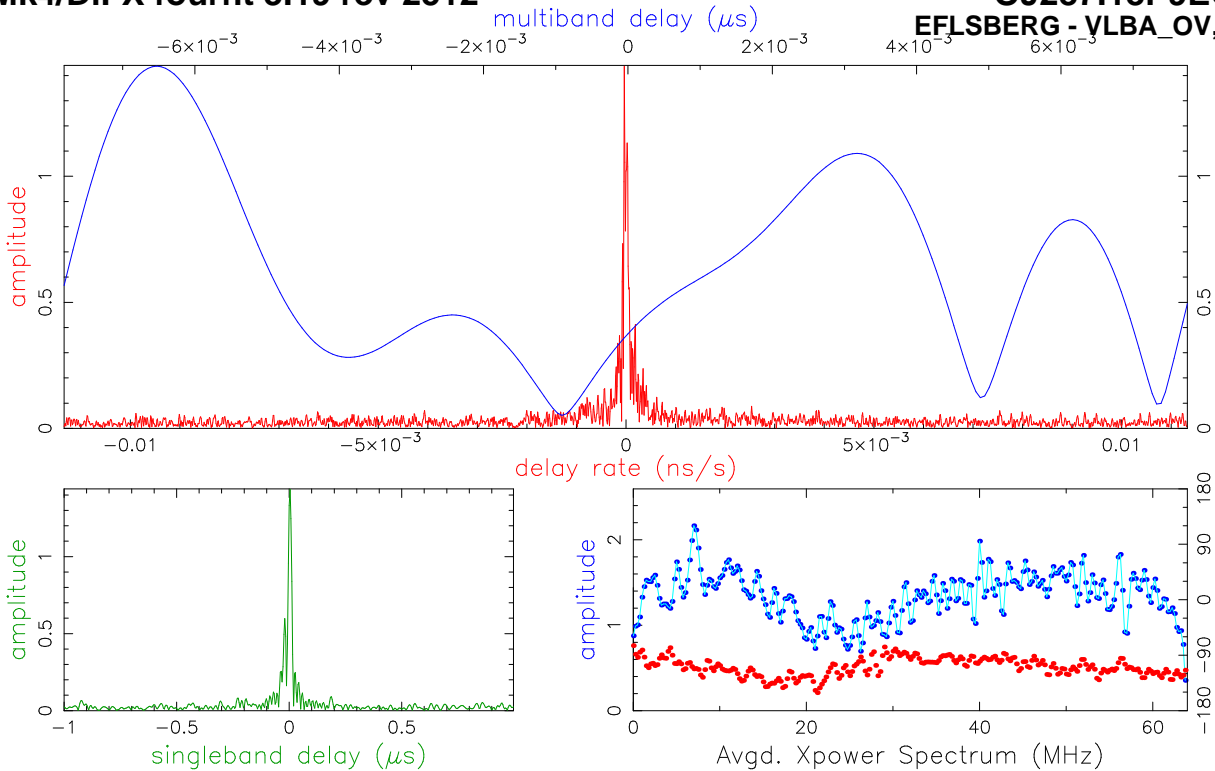


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		257.3
b	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.1
o	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.3
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.95131505229E+02	Apriori delay (usec)	-6.95131862152E+02	Resid mbdelay (usec)	3.56923E-04	+/-	1.6E-04
Sband delay (usec)	-6.95130695652E+02	Apriori clock (usec)	-2.1468208E+01	Resid sbdelay (usec)	1.16650E-03	+/-	1.3E-03
Phase delay (usec)	-6.95131862148E+02	Apriori clockrate (us/s)	-2.4300001E-07	Resid phdelay (usec)	4.16480E-09	+/-	5.6E-07
Delay rate (us/s)	-1.43774862149E-01	Apriori rate (us/s)	-1.43774889178E-01	Resid rate (us/s)	2.70293E-08	+/-	2.2E-09
Total phase (deg)	-218.0	Apriori accel (us/s/s)	8.97857382722E-06	Resid phase (deg)	0.1	+/-	17.4

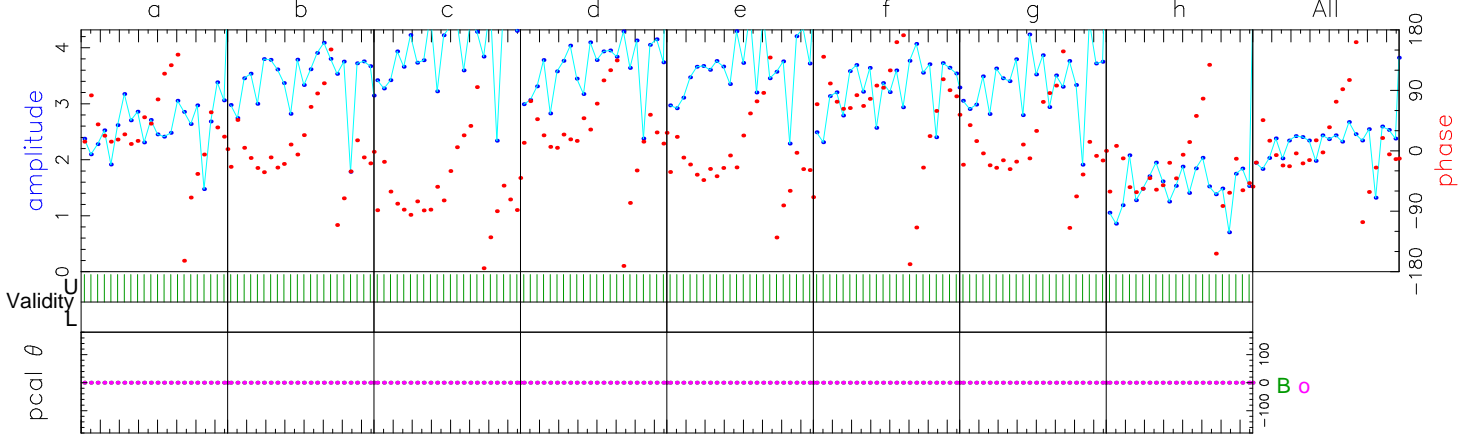
ph/seg (deg)	67.6	Theor.	41.7	Amplitude	0.115 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	93.5	Search (2048X32)	0.110	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	34.8	Inc. seg. avg.	0.156	Inc. frq. avg.	0.115	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	53.0	Inc. frq. avg.	0.115			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 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.48.18P9EC



Fringe quality 1
SNR 82.6
Int time 439.713
Amp 1.440
Phase 4.8
PFD 0.0e+00
Delays (us)
SBD 0.003293
MBD -0.006559
Fringe rate (Hz)
-0.003270
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120801
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

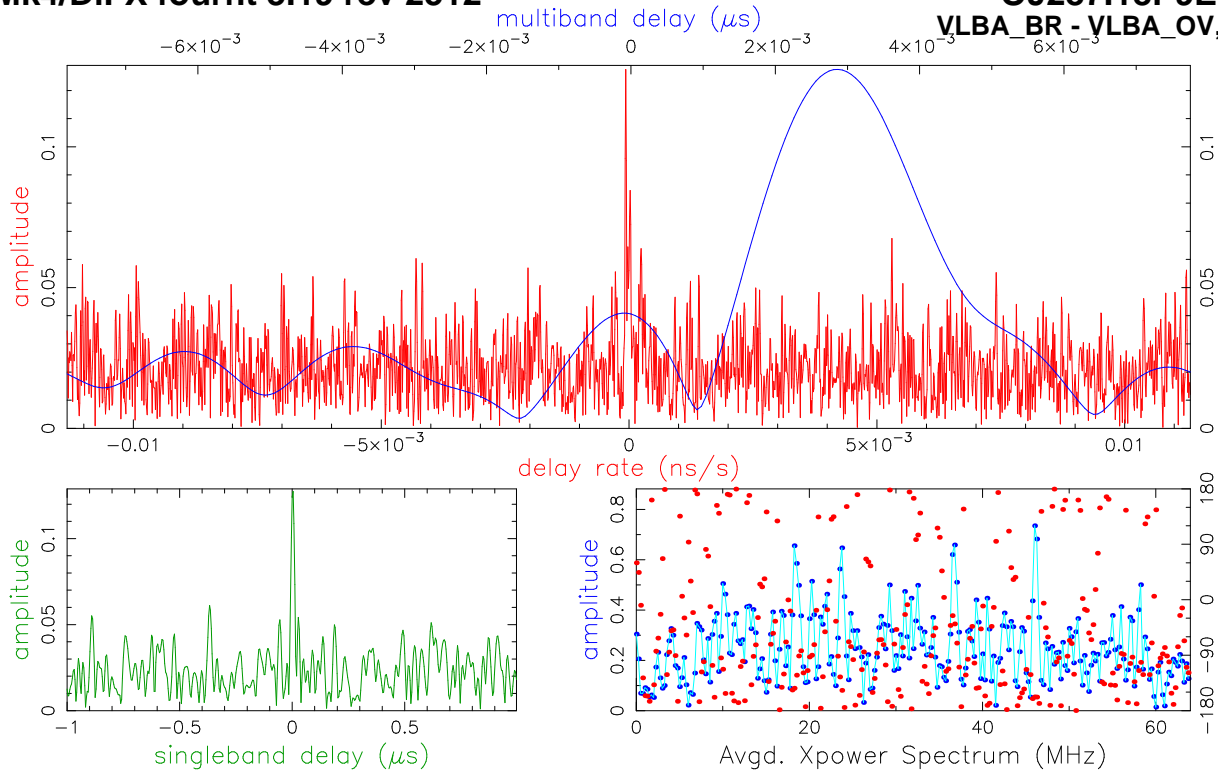


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.87607824155E+03				-2.87608730747E+03					
Sband delay (usec)	-2.87608401422E+03				-7.0079451E+00					
Phase delay (usec)	-2.87608730731E+03				-4.0100001E-07					
Delay rate (us/s)	-1.83494236356E+00				-1.83494232560E+00					
Total phase (deg)			-234.7		2.17072135213E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 56.8 3.3 Search (2048X32) 1.336 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 62.0 5.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 52.4 2.0 Inc. seg. avg. 2.276 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 50.6 3.4 Inc. frq. avg. 1.999 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 265.9 el 29.7 pa 42.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 11218.184 1949.849 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bo.W.55.18P9EC

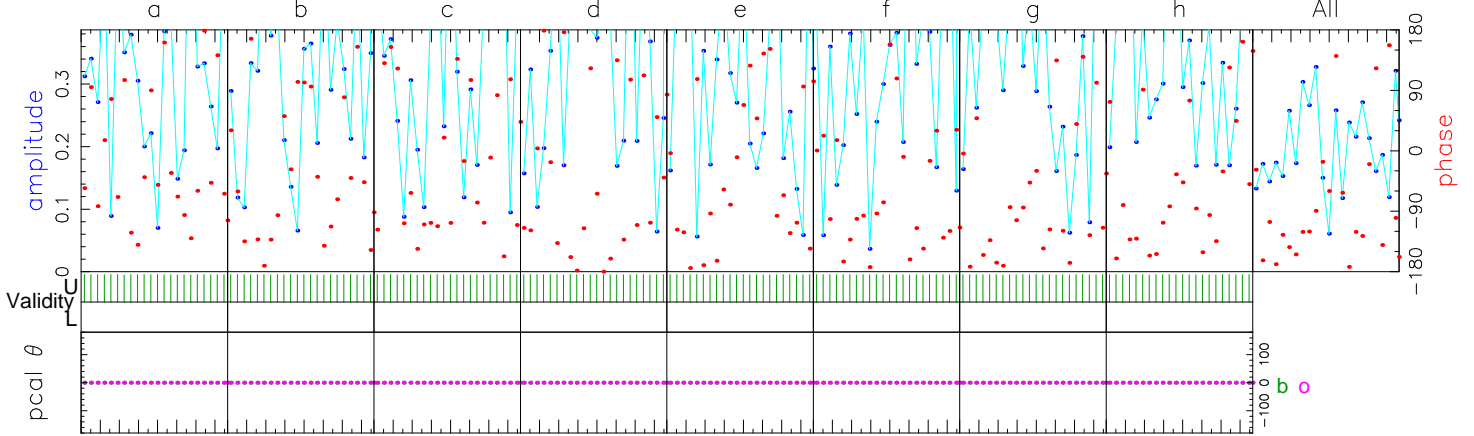
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bo
VLBA_BR - VLBA_OV, fgroup W, pol RL



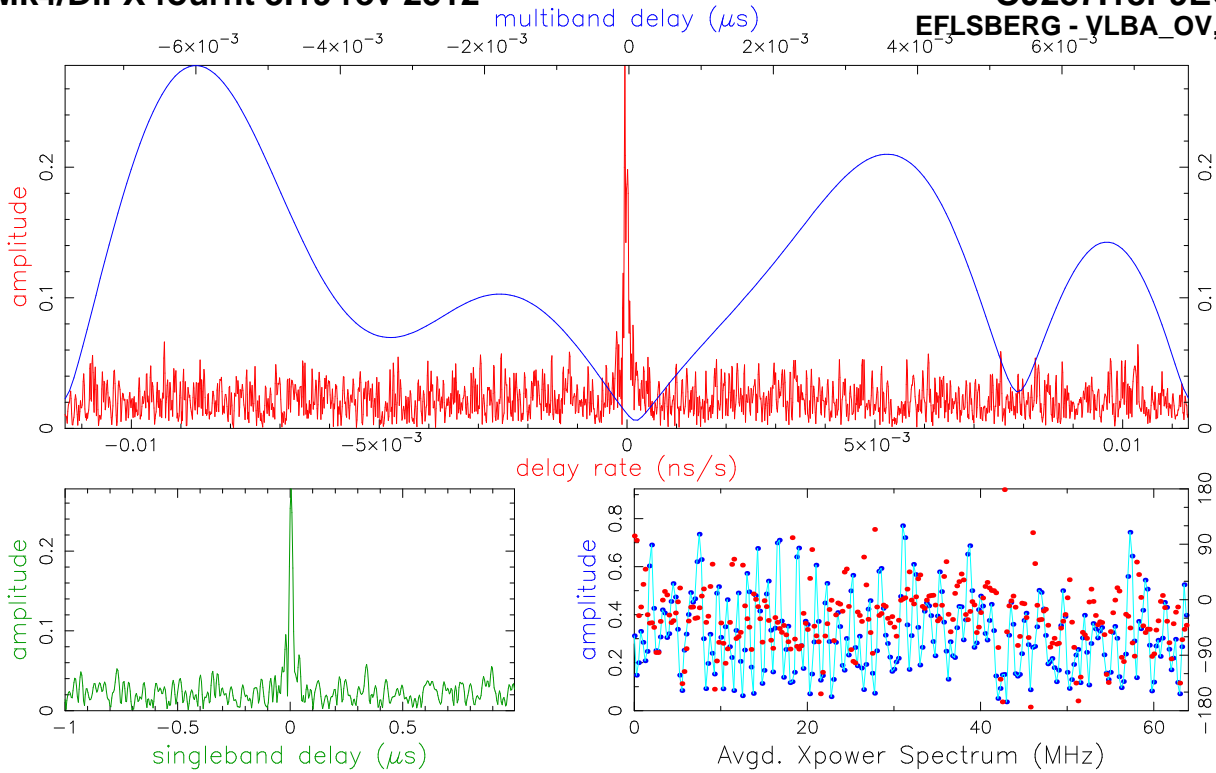
Fringe quality 9
SNR 7.4
Int time 436.707
Amp 0.129
Phase -126.4
PFD 5.5e-05
Delays (us)
SBD 0.002514
MBD 0.002834
Fringe rate (Hz)
-0.005772
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120805
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
	-86.8	-145.2	-127.4	-161.9	-132.3	-116.0	-130.0	-105.0	Phase	-126.4
	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1
	351.8	198.7	489.7	331.8	173.3	122.4	256.9	380.7	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	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.95129028343E+02		Apriori delay (usec)		-6.95131862152E+02		Resid mbdelay (usec)		2.83381E-03	+/- 1.5E-04
Sband delay (usec)	-6.95129348152E+02		Apriori clock (usec)		-2.1468208E+01		Resid sbdelay (usec)		2.51400E-03	+/- 1.2E-03
Phase delay (usec)	-6.95131866230E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-4.07730E-06	+/- 5.0E-07
Delay rate (us/s)	-1.43774956190E-01		Apriori rate (us/s)		-1.43774889178E-01		Resid rate (us/s)		-6.70118E-08	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		8.97857382722E-06		Resid phase (deg)		-126.4	+/- 15.6

ph/seg (deg) 59.4 37.3 Search (2048X32) 0.127 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 78.0 65.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.1 22.0 Inc. seg. avg. 0.166 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 21.0 38.4 Inc. frq. avg. 0.127 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 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.69.18P9EC

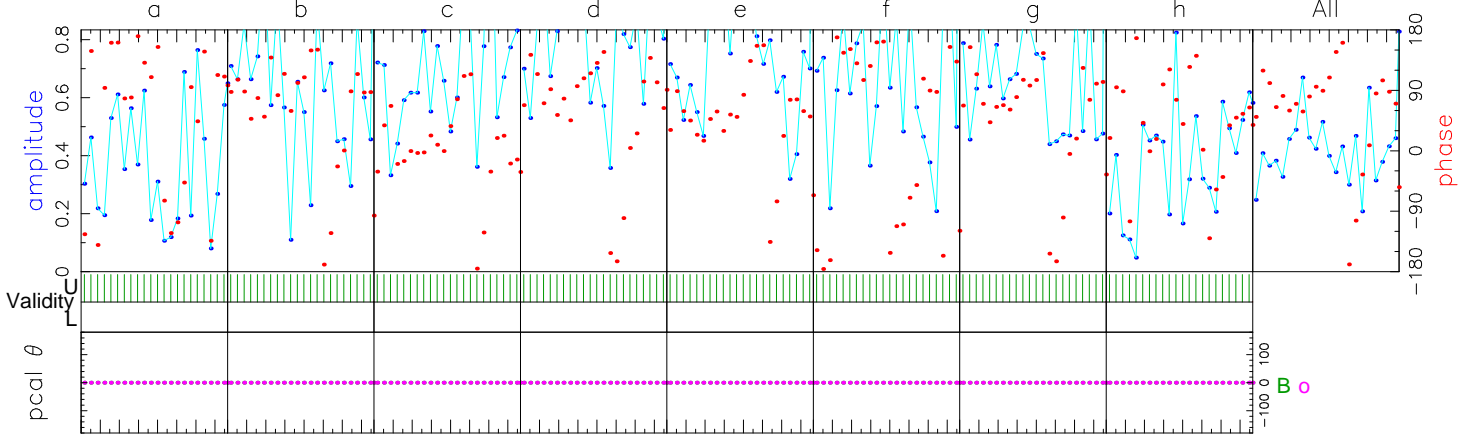


Fringe quality 7

SNR 15.9
Int time 439.713
Amp 0.278
Phase 84.7
PFD 0.0e+00
Delays (us)
SBD 0.003658
MBD -0.006013
Fringe rate (Hz)
-0.003361
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120806
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

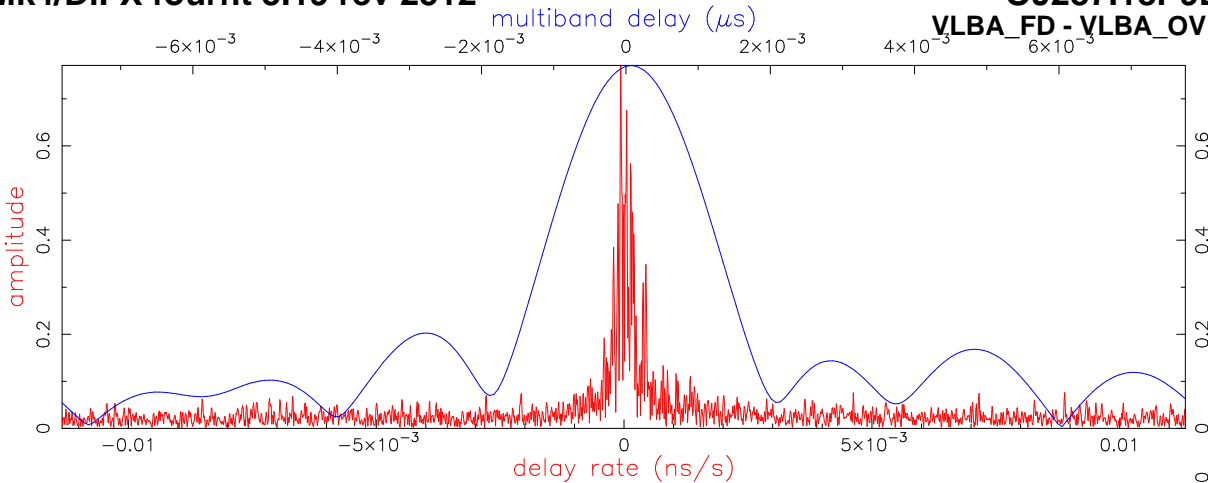
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.87607769532E+03									
Sband delay (usec)	-2.87608364922E+03									
Phase delay (usec)	-2.87608730474E+03									
Delay rate (us/s)	-1.83494236462E+00									
Total phase (deg)			-154.8							
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)									84.7	+/- 7.2
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
Sample rate (MSamp/s):	128		dr window (ns/s)		-0.011		0.011			
Data rate (Mb/s):	2048		nlags: 256		t_cohere infinite		ion window (TEC)		0.00	
									simultaneous interpolator	

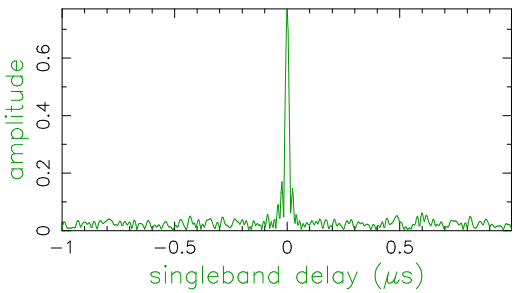
B: az 265.9 el 29.7 pa 42.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 11218.184 1949.849

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bo.W.76.18P9EC

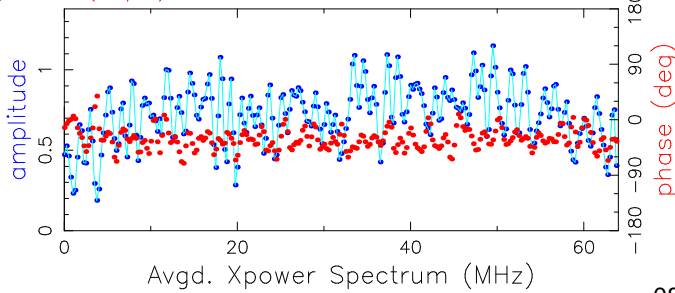


Fringe quality 7

SNR 44.0
Int time 435.404
Amp 0.771
Phase -35.4
PFD 0.0e+00
Delays (us)
SBD -0.000280
MBD 0.000066
Fringe rate (Hz)
-0.006010
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

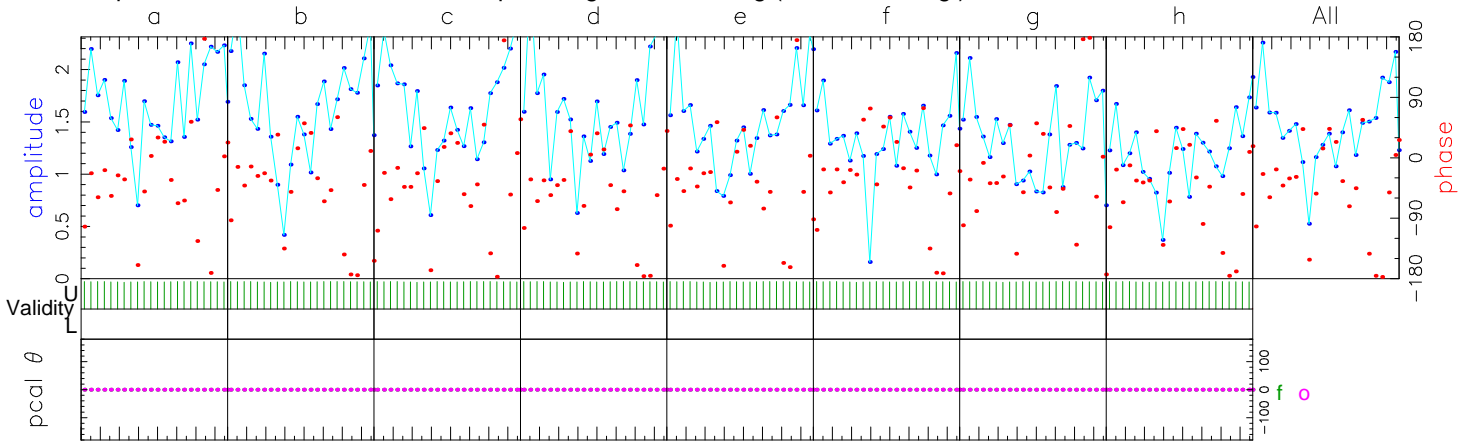


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120815
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



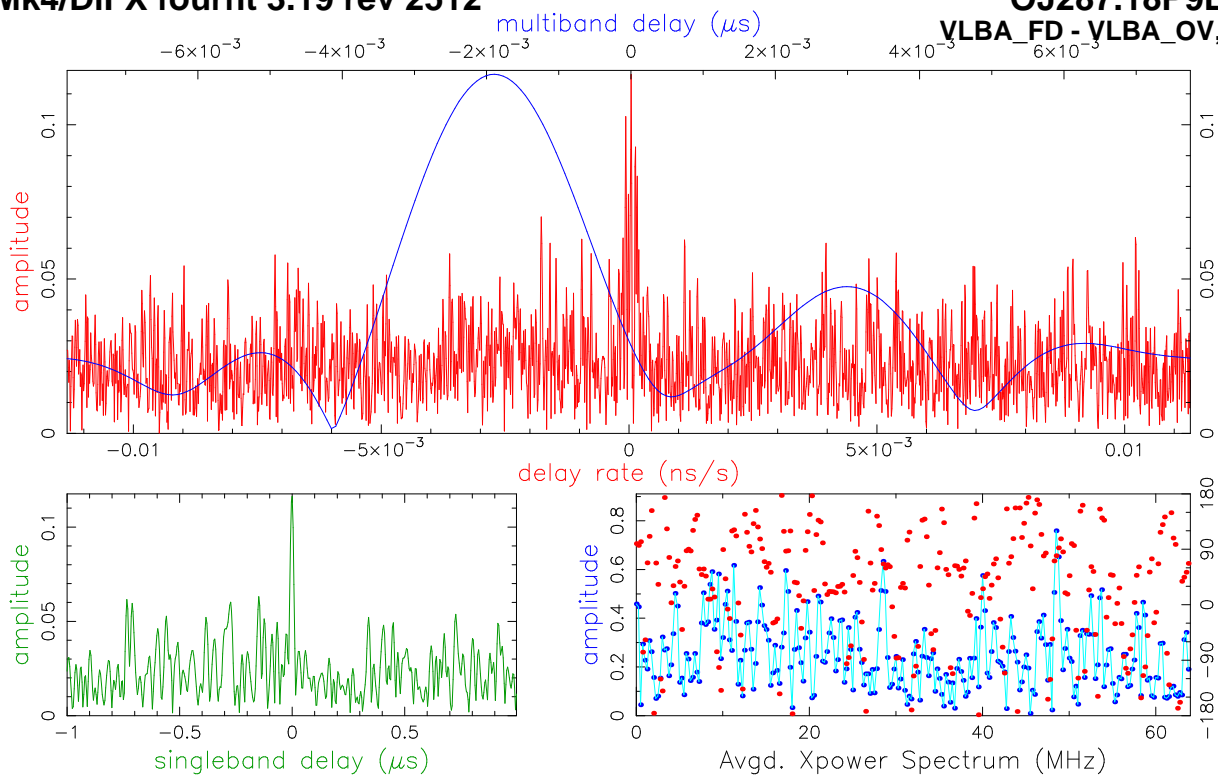
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-37.1	-30.4	-36.1	-44.7	-38.0	-15.8	-43.5	-35.5		Phase	-35.4
	0.9	0.9	0.8	0.9	0.7	0.7	0.7	0.6		Ampl.	0.8
	257.1	256.7	257.0	257.0	257.0	256.9	257.3	256.7		Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Chan ids	
										Tracks	
Group delay (usec)(sbd)	3.26141421760E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		6.55280E-05	+/-	2.5E-05
Sband delay (usec)	3.26141387207E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		-2.80000E-04	+/-	2.0E-04
Phase delay (usec)	3.26141415093E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-1.13999E-06	+/-	8.4E-08
Delay rate (us/s)	-1.25326272186E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		-6.97738E-08	+/-	3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		-35.4	+/-	2.6

RMS Theor. Amplitude 0.771 +/- 0.018
 ph/seg (deg) 67.6 6.2 Search (2048X32) 0.749
 amp/seg (%) 103.5 10.9 Interp. 0.000
 ph/frq (deg) 9.7 3.7 Inc. seg. avg. 1.471
 amp/frq (%) 13.4 6.4 Inc. frq. avg. 0.777
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fo.W.105.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fo VLBA_FD - VLBA_OV, fgroup W, pol LR

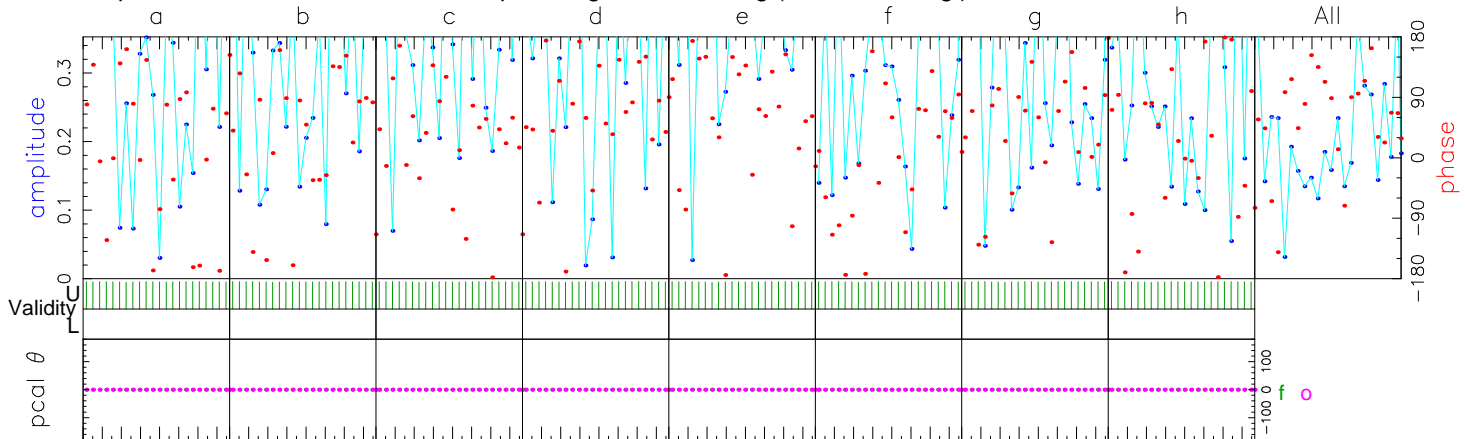


Fringe quality 0

SNR 6.7
 Int time 435.404
 Amp 0.118
 Phase 79.5
 PFD 5.6e-03
 Delays (us)
 SBD -0.001410
 MBD -0.001934
 Fringe rate (Hz)
 0.003934
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120819
 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
	87.7	83.8	44.5	93.2	99.7	52.2	74.2	103.1	Phase	79.5
	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.0	Ampl.	0.1
	235.4	509.2	168.2	257.3	255.8	445.5	300.2	133.6	Sbd box	256.6
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	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.26141221846E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		-1.93361E-03	+/- 1.6E-04
Sband delay (usec)	3.26141274232E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		-1.40975E-03	+/- 1.3E-03
Phase delay (usec)	3.26141415464E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		2.56229E-06	+/- 5.5E-07
Delay rate (us/s)	-1.25326156748E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		4.56644E-08	+/- 2.2E-09
Total phase (deg)	101.0		Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		79.5	+/- 17.1

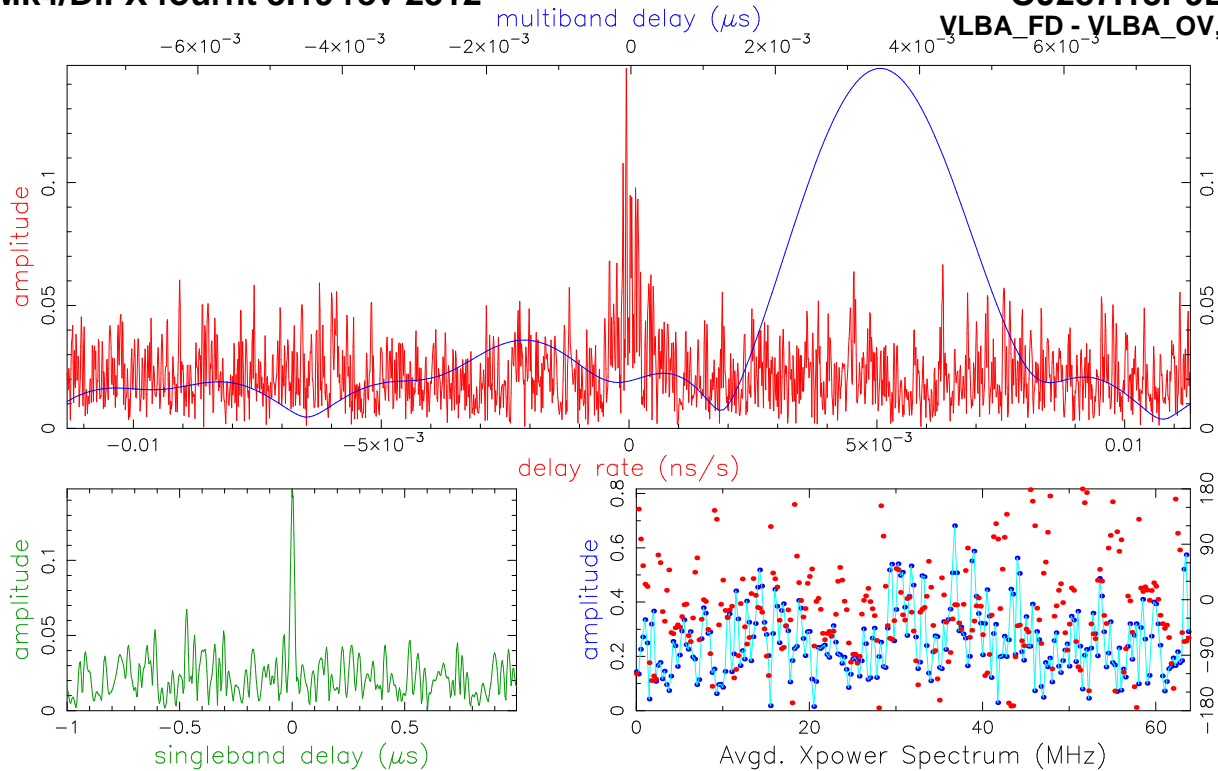
ph/seg (deg) 66.3 40.9 Amplitude 0.118 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 111.3 71.5 Search (2048X32) 0.116 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.2 24.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.8 42.1 Inc. seg. avg. 0.167 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fo...18P9EC Output file: /Exps/c201a/v1/1234/No0027/fo.W.123.18P9EC

simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fo VLBA_FD - VLBA_OV, fgroup W, pol RL

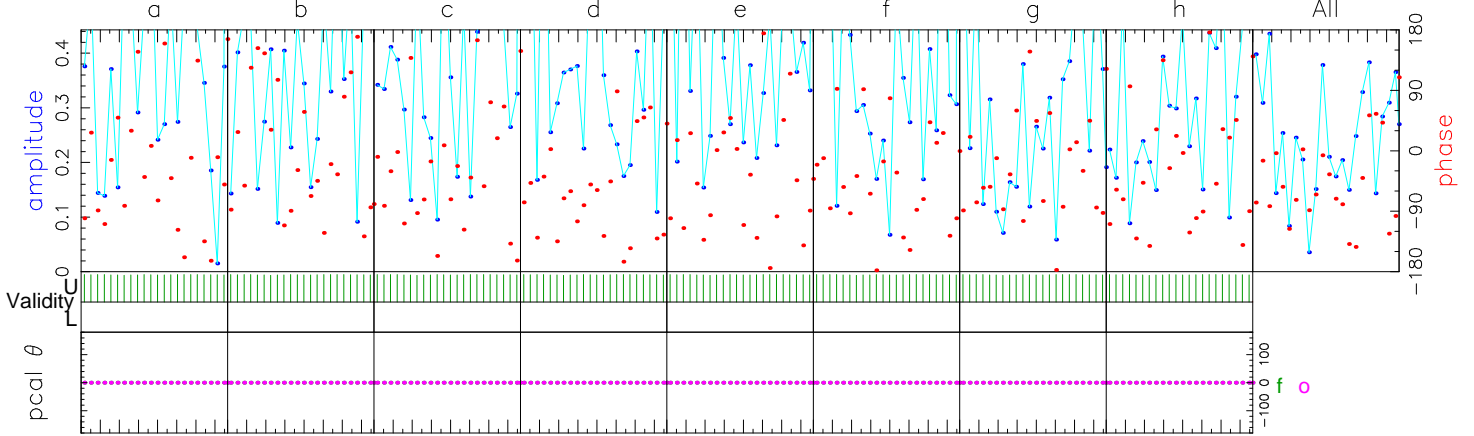


Fringe quality 9

SNR 8.4
 Int time 435.404
 Amp 0.148
 Phase -53.1
 PFD 1.3e-08
 Delays (us)
 SBD 0.001286
 MBD 0.003486
 Fringe rate (Hz) -0.004989
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120824
 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

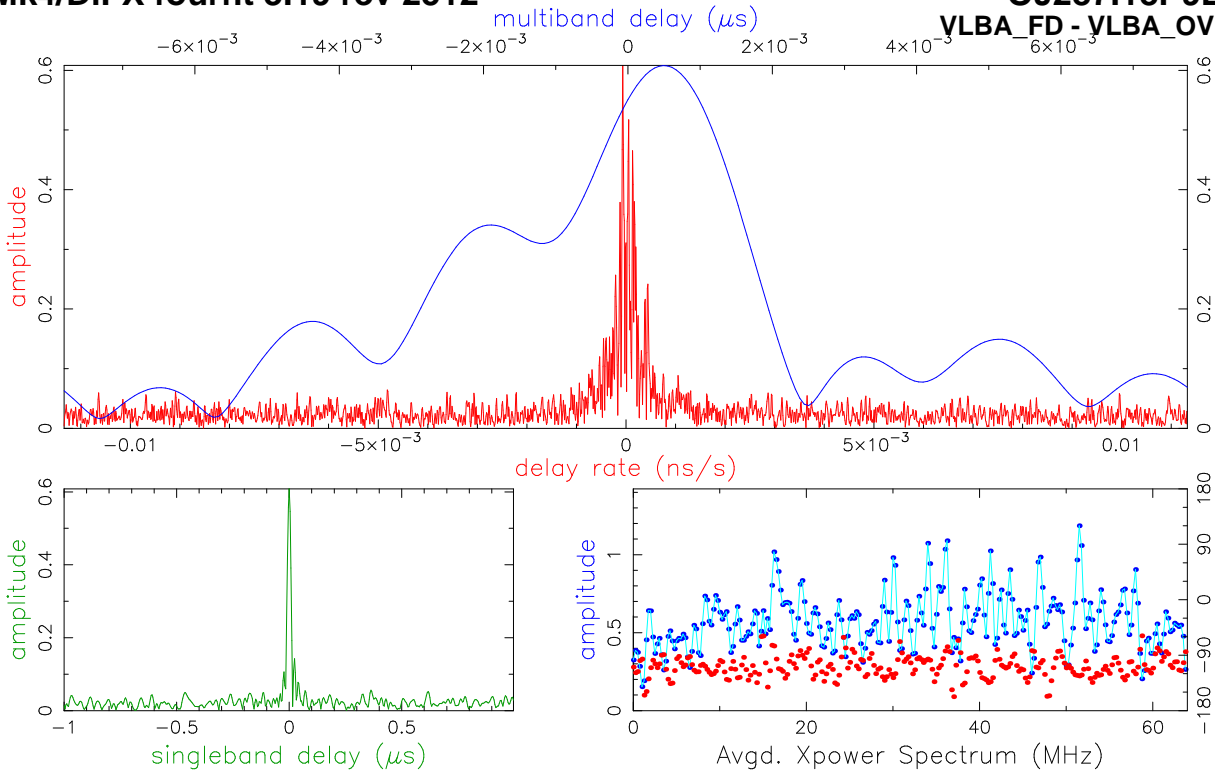


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.1	-49.4	-45.3	-60.0	-65.0	-45.8	-47.7	-64.1	Phase	-53.1
	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1
	6.9	68.5	5.4	257.3	225.9	256.8	258.8	174.4	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.26141763857E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		3.48649E-03	+/- 1.3E-04
Sband delay (usec)	3.26141543782E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		1.28575E-03	+/- 1.0E-03
Phase delay (usec)	3.26141415036E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-1.71347E-06	+/- 4.4E-07
Delay rate (us/s)	-1.25326260326E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		-5.79132E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		-53.1	+/- 13.6

ph/seg (deg) RMS Theor. Amplitude 0.148 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.5 32.6 Search (2048X32) 0.144 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 98.5 56.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 9.0 19.2 Inc. seg. avg. 0.213 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.1 33.6 Inc. frq. avg. 0.140 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 simultaneous interpolator

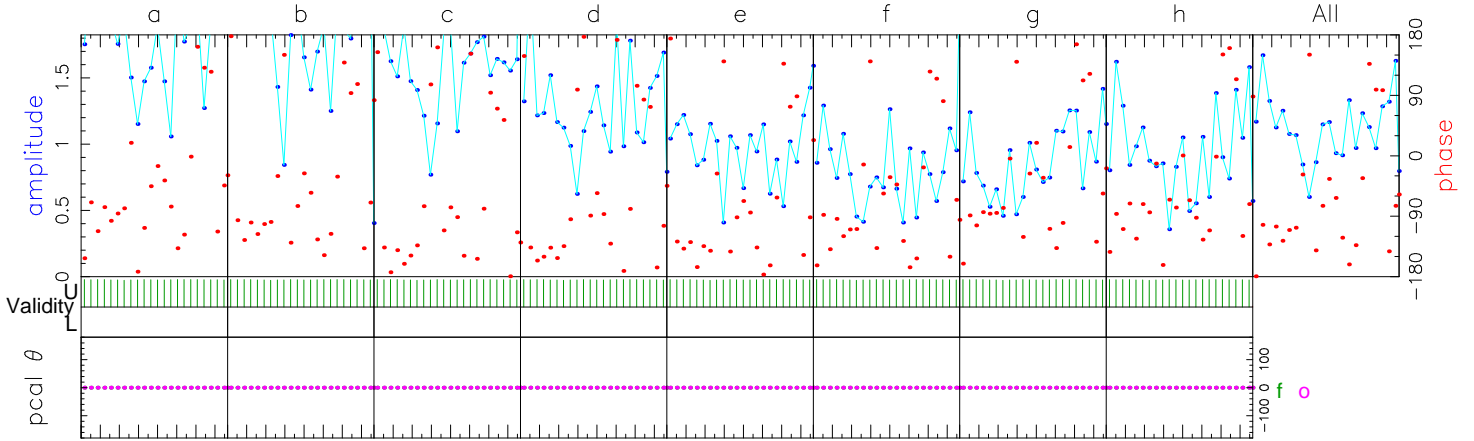
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fo...18P9EC Output file: /Exps/c201a/v1/1234/No0027/fo.W.146.18P9EC



Fringe quality 3

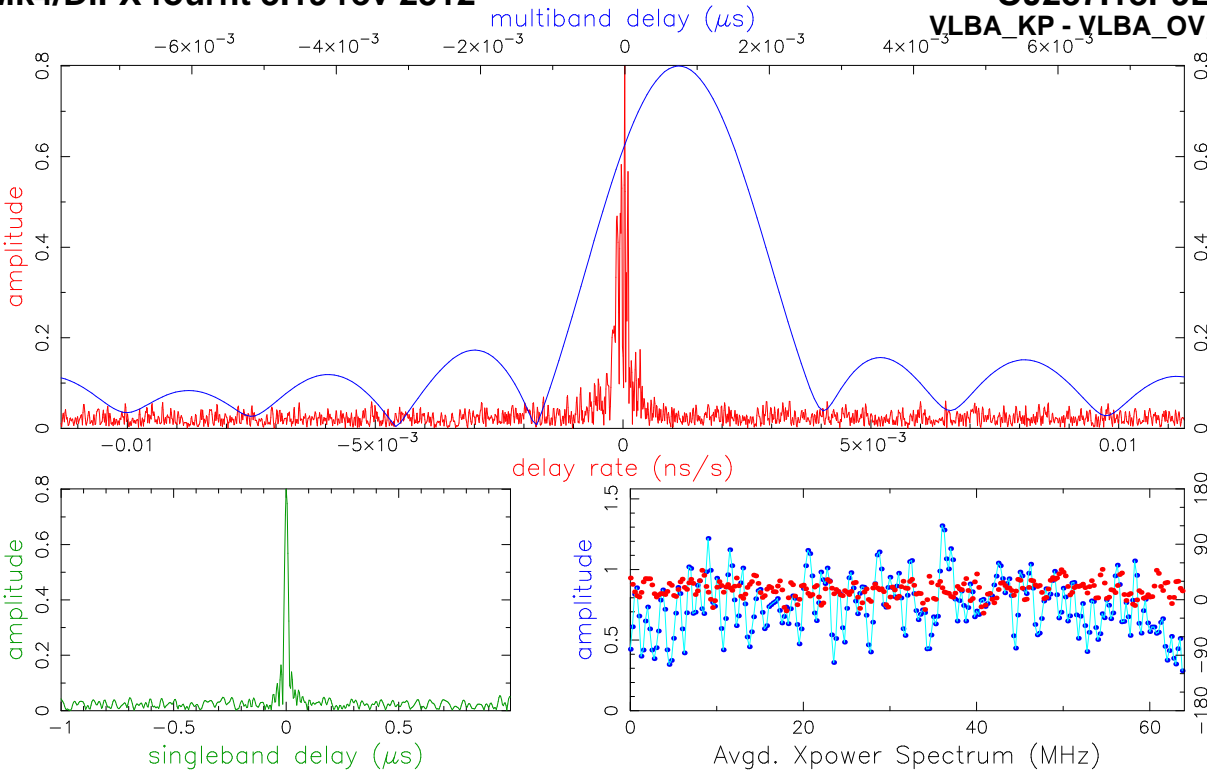
SNR 34.7
 Int time 435.404
 Amp 0.608
 Phase -116.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.000205
 MBD 0.000494
 Fringe rate (Hz)
 -0.005957
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120810
 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



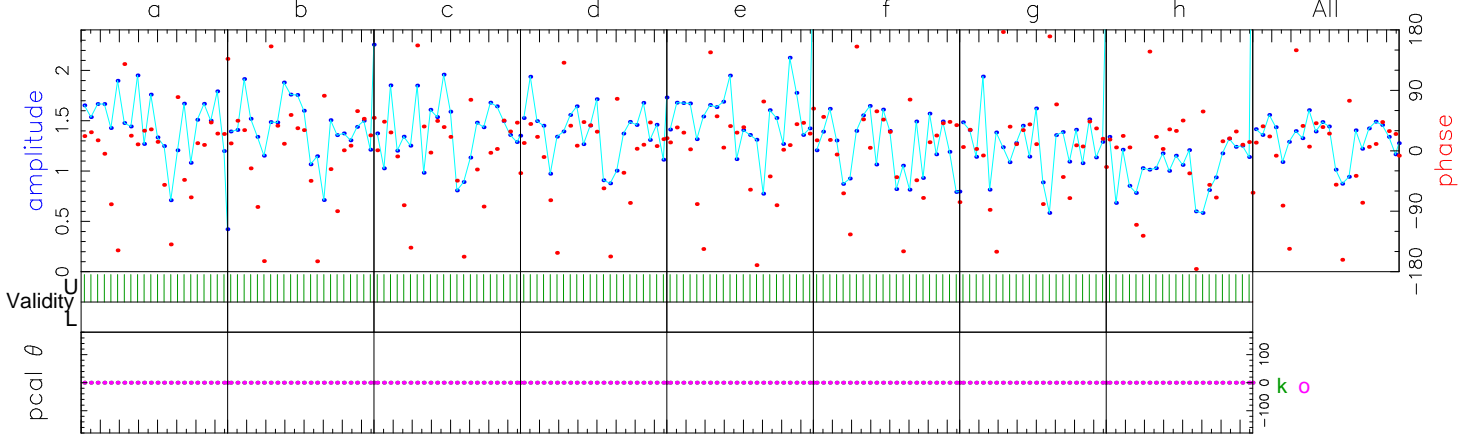
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.1	-109.2	-151.9	-144.9	-133.9	-112.5	-88.7	-93.8		-116.9
	1.0	1.0	0.8	0.7	0.6	0.4	0.3	0.5		0.7
	256.9	256.7	256.9	257.3	257.1	257.4	257.1	257.4		256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:o	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)	3.26141464567E+03		Apriori delay (usec)		3.26141415207E+03		Resid mbdelay (usec)		4.93590E-04	+/- 3.1E-05
Sband delay (usec)	3.26141394682E+03		Apriori clock (usec)		-1.6178593E+01		Resid sbdelay (usec)		-2.05250E-04	+/- 2.5E-04
Phase delay (usec)	3.26141414831E+03		Apriori clockrate (us/s)		-9.2000002E-08		Resid phdelay (usec)		-3.76863E-06	+/- 1.1E-07
Delay rate (us/s)	-1.25326271563E-01		Apriori rate (us/s)		-1.25326202412E-01		Resid rate (us/s)		-6.91503E-08	+/- 4.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.11143070042E-05		Resid phase (deg)		-116.9	+/- 3.3

ph/seg (deg) 66.9 7.9 Search (2048X32) 0.598 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 95.7 13.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.3 4.7 Inc. seg. avg. 1.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.7 8.1 Inc. frq. avg. 0.663 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 94.6 el 49.5 pa -66.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 730.020 -1402.886 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fo.W.83.18P9EC



Fringe quality 7
SNR 46.0
Int time 439.773
Amp 0.801
Phase 13.5
PFD 0.0e+00
Delays (us)
SBD 0.000553
MBD 0.000760
Fringe rate (Hz) 0.003121
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120819
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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

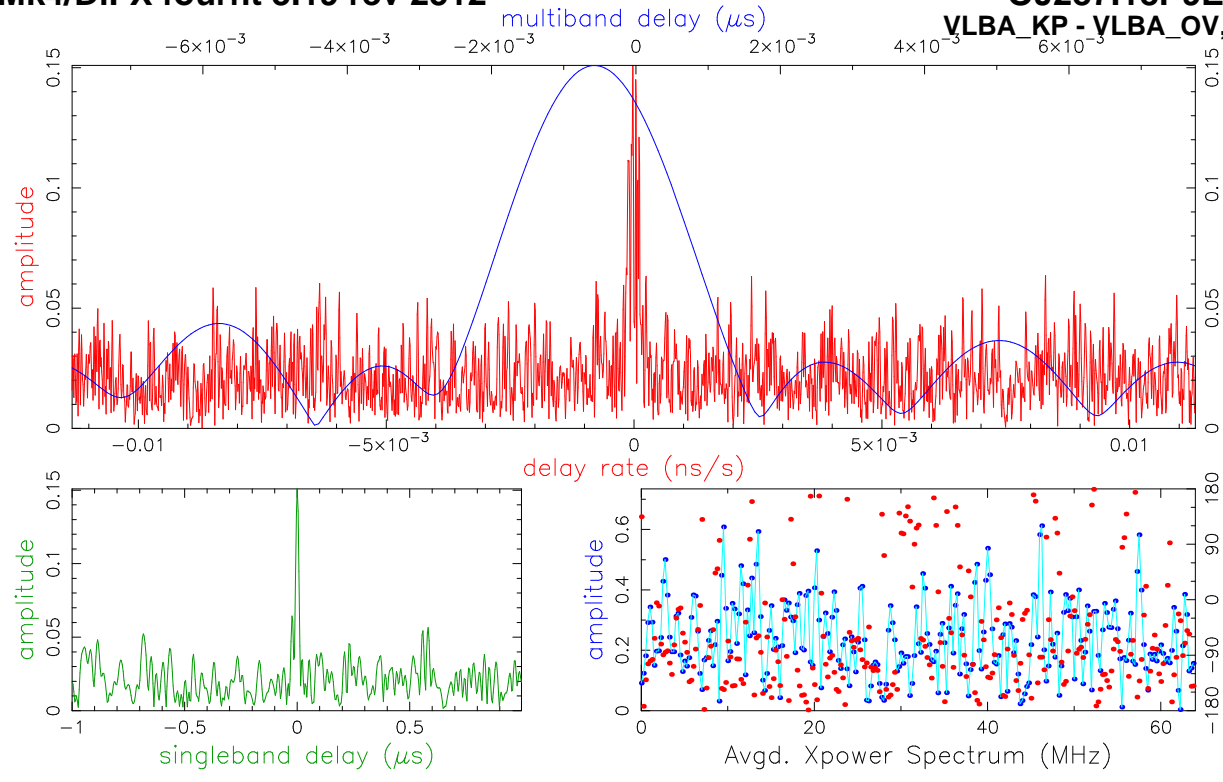


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.58628635517E+03				1.58628559530E+03			7.59861E-04	+/- 2.4E-05
Sband delay (usec)		1.58628614855E+03				-2.0410387E+01			5.53250E-04	+/- 1.9E-04
Phase delay (usec)		1.58628559574E+03				-1.9560001E-07			4.35677E-07	+/- 8.0E-08
Delay rate (us/s)		-2.23697327656E-02				-2.23697689962E-02			3.62307E-08	+/- 3.2E-10
Total phase (deg)			78.1			-1.14676797778E-05			13.5	+/- 2.5
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										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 69.6 6.0 Search (2048X32) 0.760 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 69.5 10.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 4.5 3.5 Inc. seg. avg. 1.318 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.4 6.2 Inc. frq. avg. 0.800 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 91.6 el 42.9 pa -64.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 118.251 -959.093 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ko..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ko.W.118.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, ko
VLBA_KP - VLBA_OV, fgroup W, pol LR

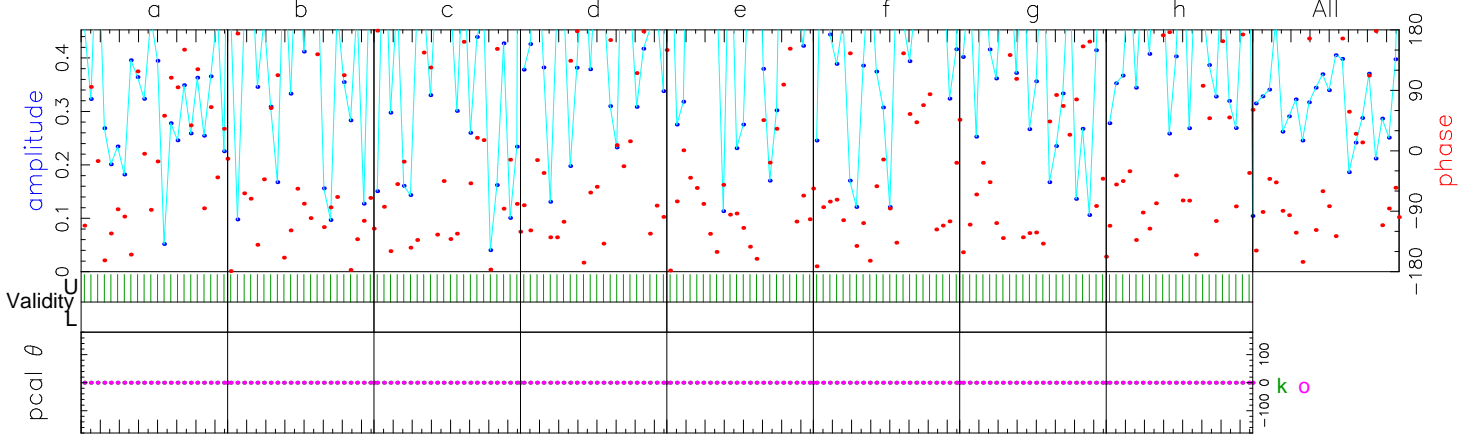


Fringe quality 9

SNR 8.7
Int time 439.773
Amp 0.151
Phase -100.7
PFD 1.8e-09
Delays (us)
SBD 0.000153
MBD -0.000571
Fringe rate (Hz)
-0.001989
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120823
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

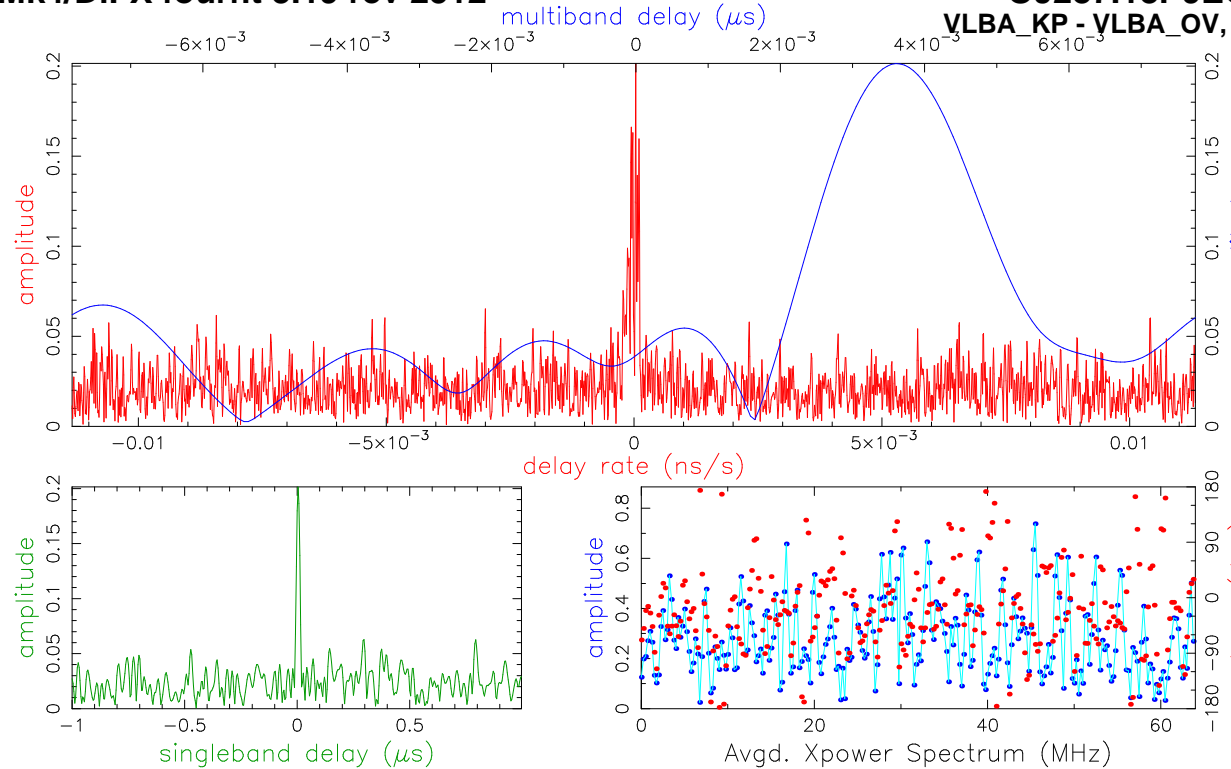


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.1	-107.4	-105.0	-95.4	-108.1	-98.6	-106.2	-93.9	Phase	-100.7
	0.0	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	63.6	256.9	86.9	256.8	256.9	185.1	505.8	257.6	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.58628502438E+03		Apriori delay (usec)		1.58628559530E+03		Resid mbdelay (usec)		-5.70928E-04	+/- 1.3E-04
Sband delay (usec)	1.58628574830E+03		Apriori clock (usec)		-2.0410387E+01		Resid sbdelay (usec)		1.53000E-04	+/- 1.0E-03
Phase delay (usec)	1.58628559206E+03		Apriori clockrate (us/s)		-1.9560001E-07		Resid phdelay (usec)		-3.24711E-06	+/- 4.3E-07
Delay rate (us/s)	-2.23697920839E-02		Apriori rate (us/s)		-2.23697689962E-02		Resid rate (us/s)		-2.30876E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.14676797778E-05		Resid phase (deg)		-100.7	+/- 13.2

ph/seg (deg) 73.2 31.7 Search (2048X32) 0.150 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 119.7 55.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.7 18.7 Inc. seg. avg. 0.276 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.3 32.7 Inc. frq. avg. 0.147 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 91.6 el 42.9 pa -64.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 118.251 -959.093 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ko..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ko.W.138.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, ko
VLBA_KP - VLBA_OV, fgroup W, pol RL

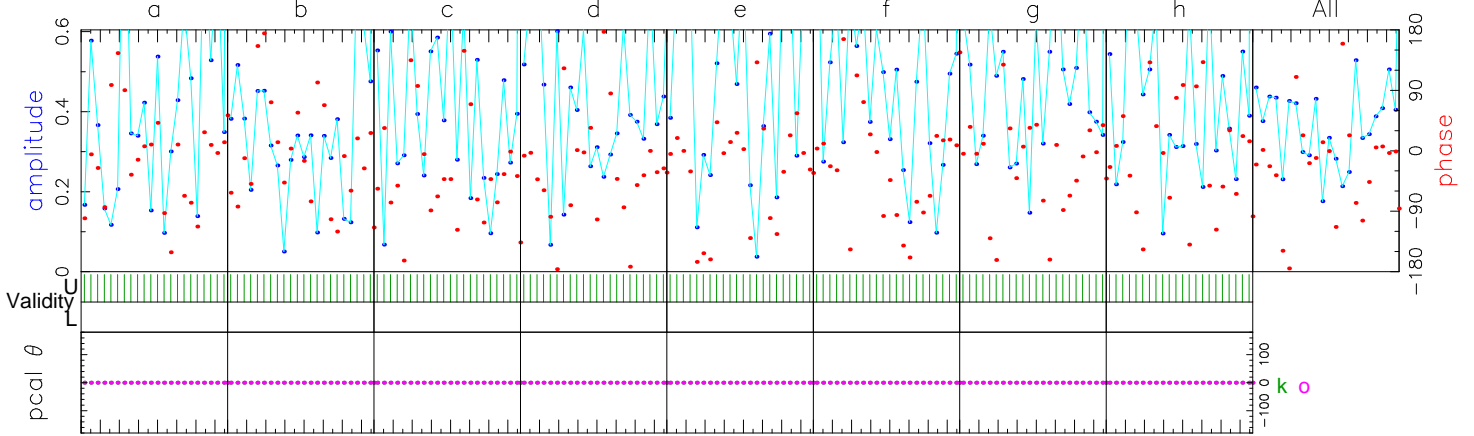


Fringe quality 9

SNR 11.6
Int time 439.773
Amp 0.202
Phase -20.0
PFD 3.3e-22
Delays (us)
SBD 0.004280
MBD 0.003625
Fringe rate (Hz) 0.003117
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120827
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	1.58628922035E+03		Apriori delay (usec)		1.58628559530E+03		Resid mbdelay (usec)		3.62505E-03	+/- 9.4E-05
Sband delay (usec)	1.58628987555E+03		Apriori clock (usec)		-2.0410387E+01		Resid sbdelay (usec)		4.28025E-03	+/- 7.5E-04
Phase delay (usec)	1.58628559466E+03		Apriori clockrate (us/s)		-1.9560001E-07		Resid phdelay (usec)		-6.45496E-07	+/- 3.2E-07
Delay rate (us/s)	-2.23697328095E-02		Apriori rate (us/s)		-2.23697689962E-02		Resid rate (us/s)		3.61867E-08	+/- 1.3E-09
Total phase (deg)	44.6		Apriori accel (us/s/s)		-1.14676797778E-05		Resid phase (deg)		-20.0	+/- 9.9

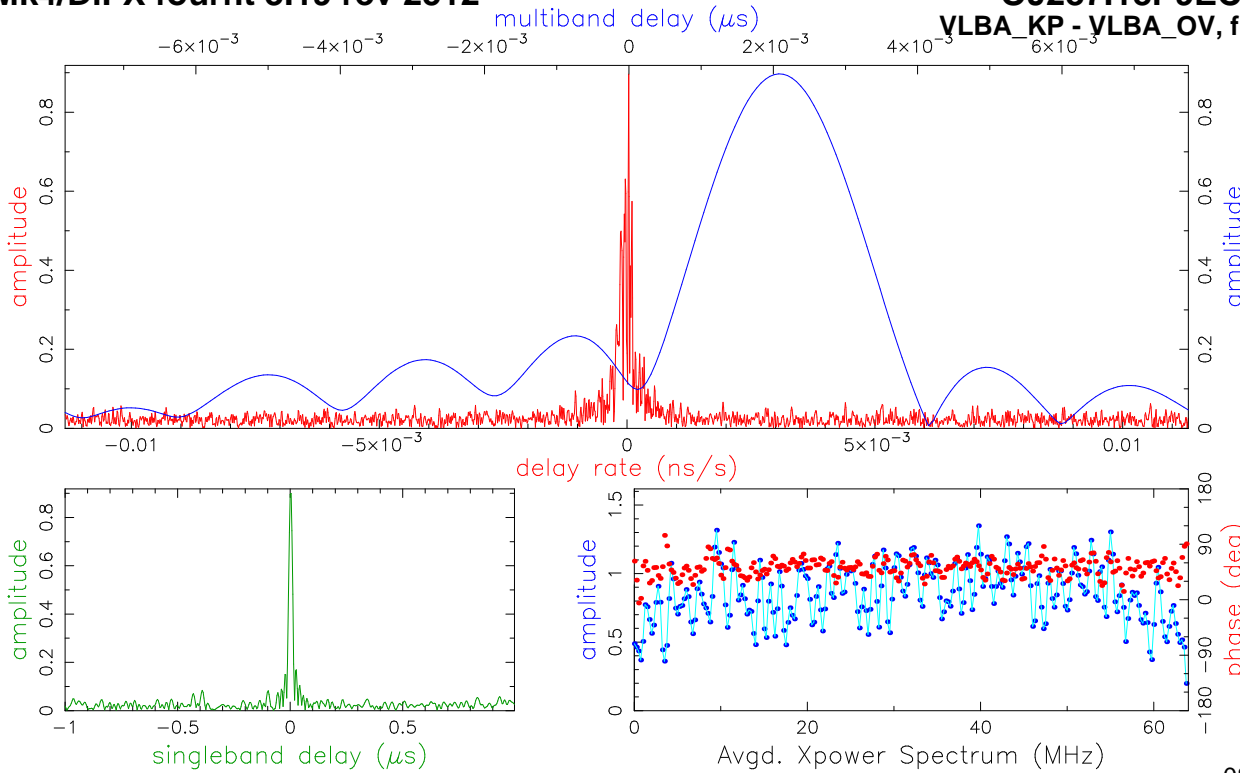
	RMS	Theor.	Amplitude	0.202 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	73.0	23.8	Search (2048X32)	0.193	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	93.1	41.5	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	23.1	14.0	Inc. seg. avg.	0.335	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	33.8	24.5	Inc. frq. avg.	0.208	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

k: az 91.6 el 42.9 pa -64.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 118.251 -959.093 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ko..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ko.W.155.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, ko
VLBA_KP - VLBA_OV, fgroup W, pol LL

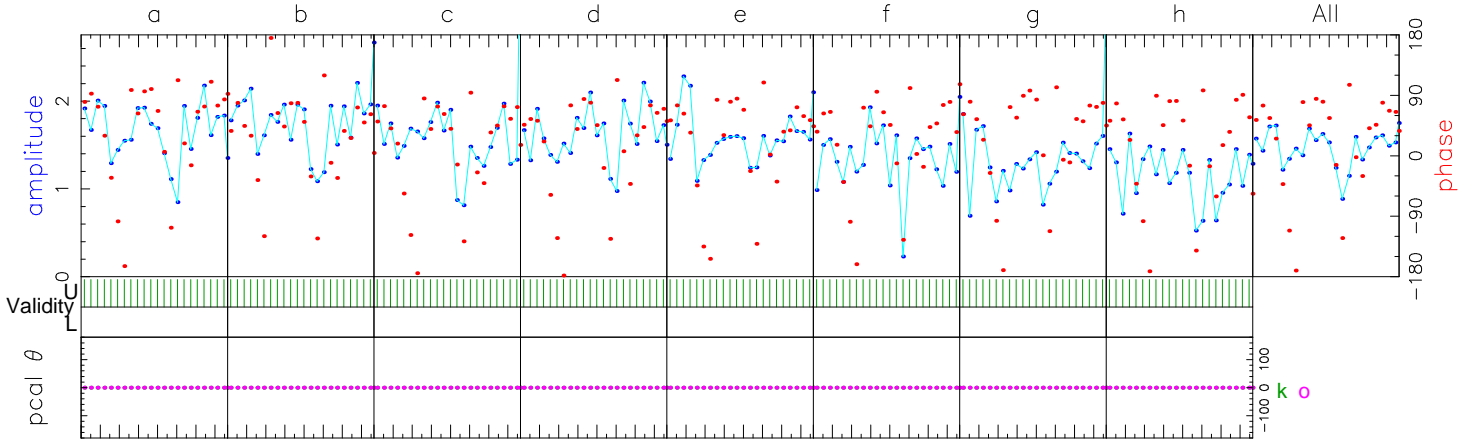


Fringe quality 5

SNR 52.7
Int time 439.773
Amp 0.919
Phase 50.9
PFD 0.0e+00
Delays (us)
SBD 0.002034
MBD 0.002138
Fringe rate (Hz) 0.003106
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120813
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



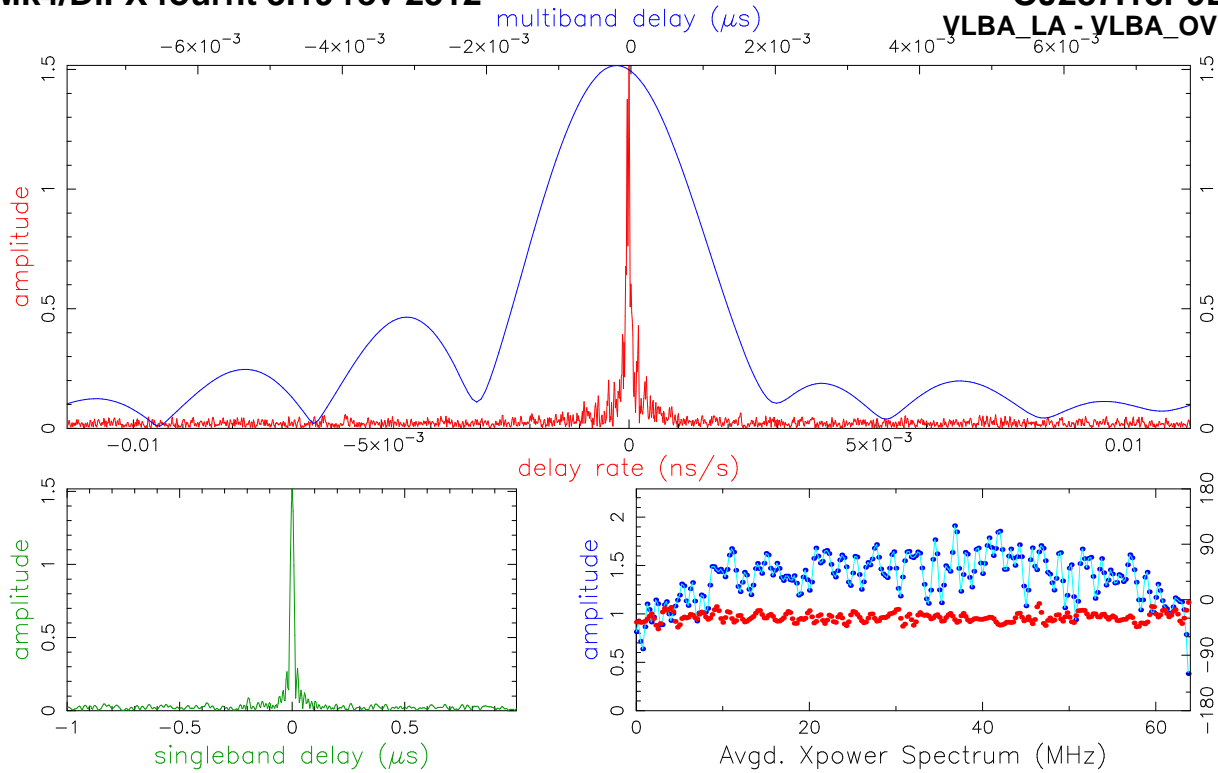
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Group delay (usec)(sbd)	68.8	45.1	46.8	44.9	51.9	44.2	55.7	48.6	Phase	50.9
Sband delay (usec)	1.0	1.1	0.9	1.0	0.9	0.9	0.8	0.6	Ampl.	0.9
Phase delay (usec)	257.2	257.3	257.7	257.7	257.5	257.7	257.3	257.6	Sbd box	257.5
Delay rate (us/s)	U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Total phase (deg)	k 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	o 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	k:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	k:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
	k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	o 1000	1000	1000	1000	1000	1000	1000	1000		
	k W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	o W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.58628773360E+03	Apriori delay (usec)	1.58628559530E+03	Resid mbdelay (usec)	2.13830E-03	+/-	2.1E-05
Sband delay (usec)	1.58628762880E+03	Apriori clock (usec)	-2.0410387E+01	Resid sbdelay (usec)	2.03350E-03	+/-	1.6E-04
Phase delay (usec)	1.58628559695E+03	Apriori clockrate (us/s)	-1.9560001E-07	Resid phdelay (usec)	1.64227E-06	+/-	7.0E-08
Delay rate (us/s)	-2.23697329335E-02	Apriori rate (us/s)	-2.23697689962E-02	Resid rate (us/s)	3.60627E-08	+/-	2.8E-10
Total phase (deg)	115.6	Apriori accel (us/s/s)	-1.14676797778E-05	Resid phase (deg)	50.9	+/-	2.2

ph/seg (deg)	RMS 69.4	Theor. 5.2	Amplitude 0.919 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	63.0	9.1	Search (2048X32) 0.868	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	8.9	3.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	13.8	5.4	Inc. seg. avg. 1.456	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.904	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC) 0.00 0.00

k: az 91.6 el 42.9 pa -64.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 118.251 -959.093 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ko..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ko.W.96.18P9EC

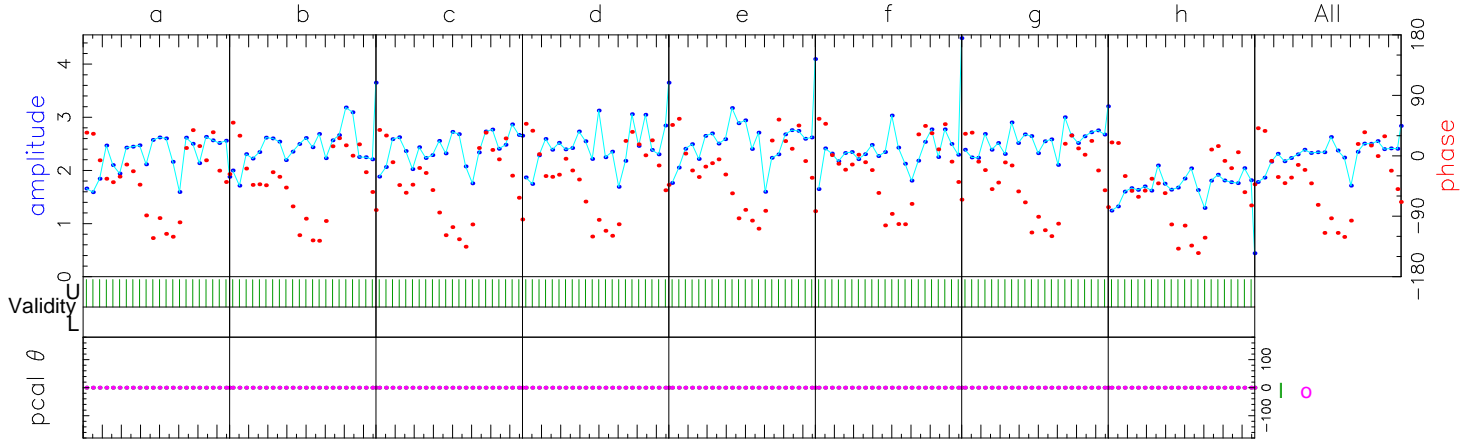


Fringe quality 4

SNR 87.0
Int time 439.432
Amp 1.517
Phase -29.3
PFD 0.0e+00
Delays (us)
SBD -0.000244
MBD -0.000205
Fringe rate (Hz)
-0.000441
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120827
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



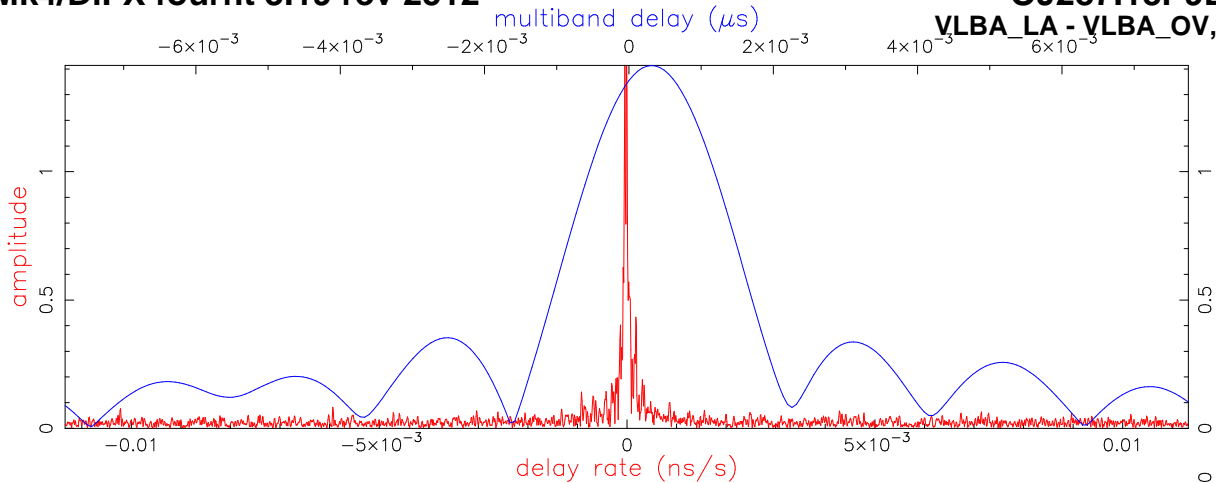
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	2.62781508265E+03	Apriori delay (usec)	2.62781528777E+03	Resid mbdelay (usec)	-2.05125E-04	+/-	1.2E-05
Sband delay (usec)	2.62781504377E+03	Apriori clock (usec)	-2.3753098E+01	Resid sbdelay (usec)	-2.44000E-04	+/-	9.9E-05
Phase delay (usec)	2.62781528683E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-9.46179E-07	+/-	4.2E-08
Delay rate (us/s)	-1.38848439375E-01	Apriori rate (us/s)	-1.38848434252E-01	Resid rate (us/s)	-5.12287E-09	+/-	1.7E-10
Total phase (deg)	290.6	Apriori accel (us/s/s)	-1.48863493385E-05	Resid phase (deg)	-29.3	+/-	1.3

ph/seg (deg)	50.8	RMS	3.2	Theor.	1.517 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	53.0	Search (2048X32)	1.397	Amplitude	1.517 +/- 0.017	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	12.1	Interp.	0.000	Search	1.397	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.7	Inc. seg. avg.	2.285	Inc. seg. avg.	2.285	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	1.538	Inc. frq. avg.	1.538	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

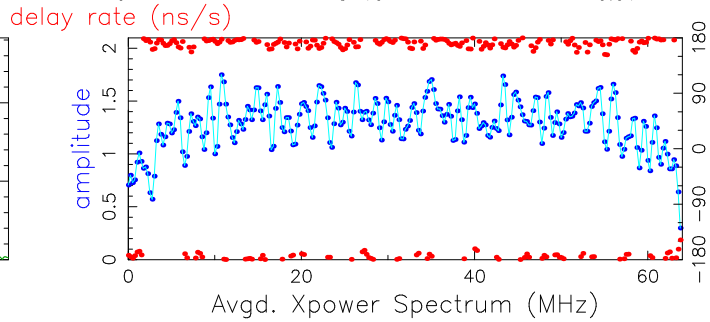
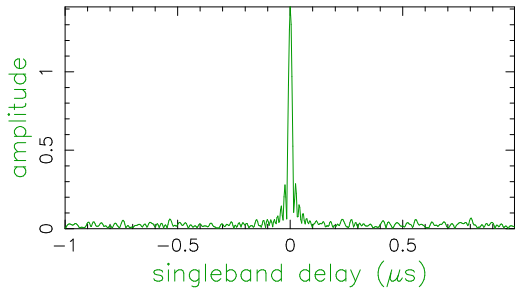
l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.157.18P9EC



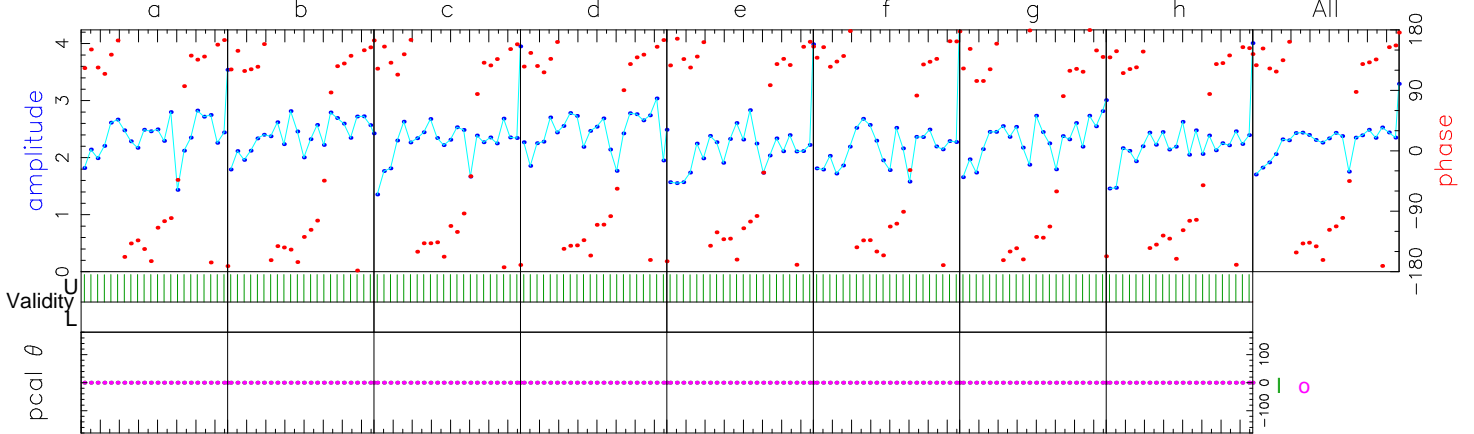
Fringe quality 5

SNR 81.1
Int time 439.432
Amp 1.414
Phase 174.7
PFD 0.0e+00
Delays (us)
SBD 0.000263
MBD 0.000321
Fringe rate (Hz)
-0.003643
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

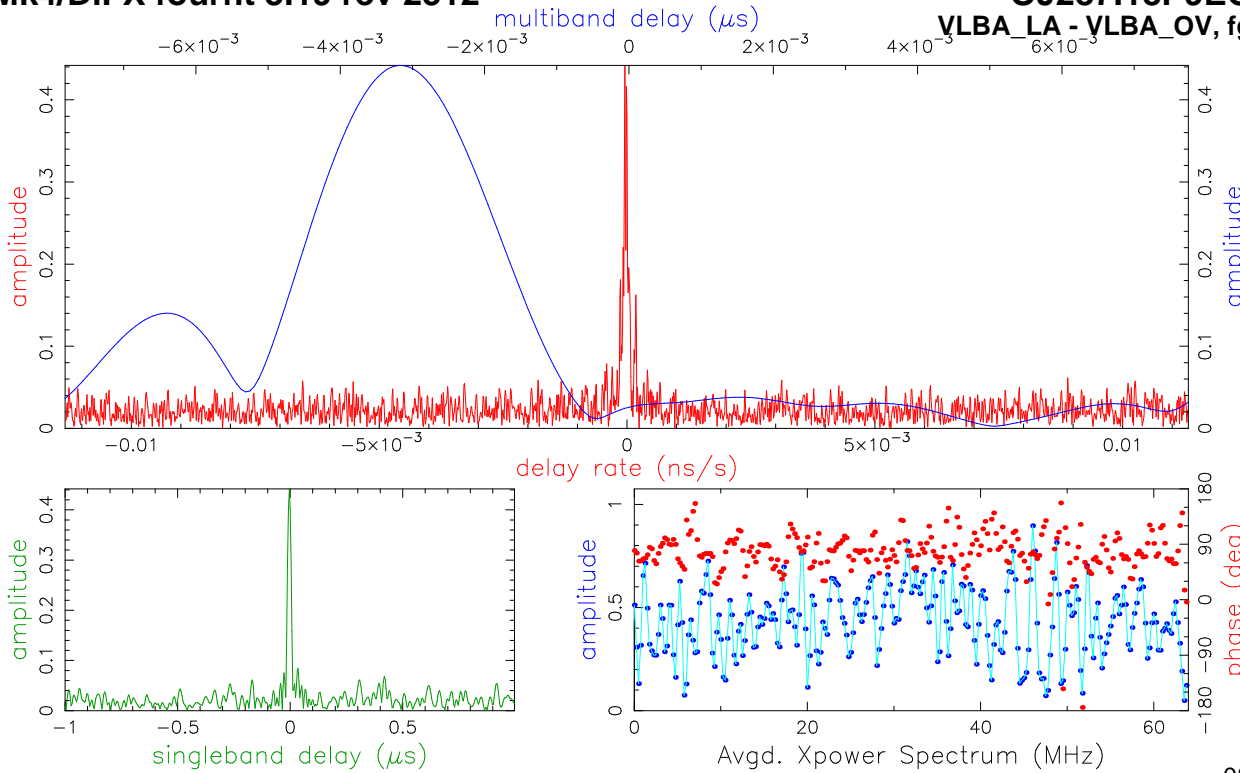


Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120832
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	176.1	169.1	176.7	176.2	-178.4	179.2	163.9	176.8		174.7
Sband delay (usec)	1.5	1.5	1.4	1.5	1.3	1.3	1.5	1.3		1.4
Phase delay (usec)	257.0	256.7	257.2	257.1	257.5	257.1	257.1	256.9		257.1
Delay rate (us/s)	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Total phase (deg)			134.7							174.7
Apriori delay (usec)					2.62781528777E+03					3.20862E-04 +/- 1.3E-05
Apriori clock (usec)					-2.3753098E+01					2.63000E-04 +/- 1.1E-04
Apriori clockrate (us/s)					-3.5200000E-07					5.63487E-06 +/- 4.6E-08
Apriori rate (us/s)					-1.38848434252E-01					-4.22924E-08 +/- 1.8E-10
Apriori accel (us/s/s)					-1.48863493385E-05					174.7 +/- 1.4
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
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)	56.2	3.4		1.379						
amp/seg (%)	62.5	5.9		0.000						
ph/frq (deg)	6.2	2.0		2.261						
amp/frq (%)	7.8	3.5		1.419						
l: az 98.8 el 47.0 pa -58.5										
o: az 92.1 el 37.2 pa -57.9										
u,v (fr/asec) 821.843 -600.453										
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/lo.W.169.18P9EC										

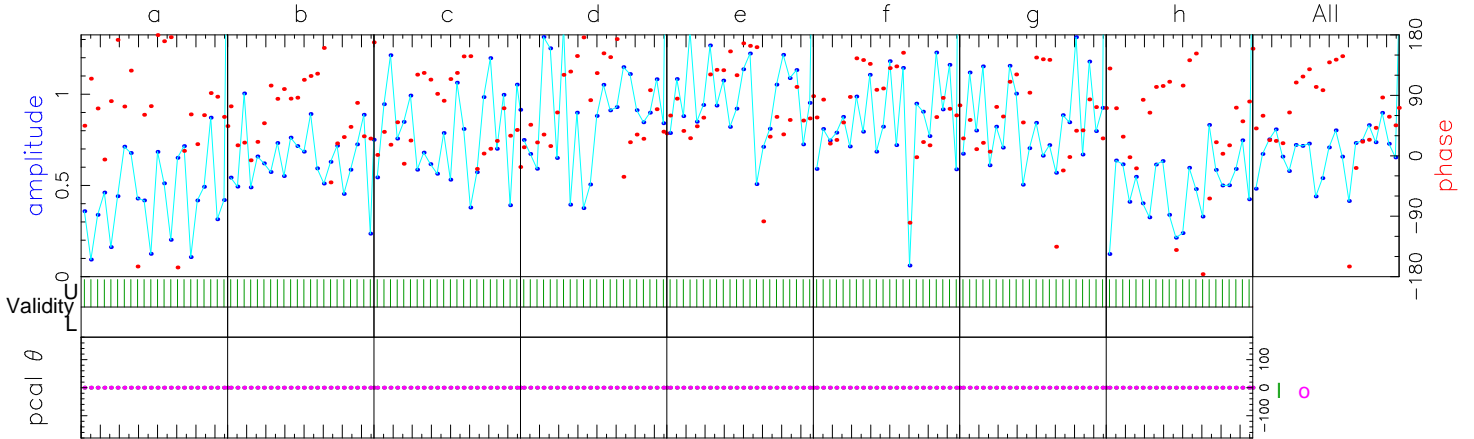


Fringe quality 7

SNR 25.3
Int time 439.432
Amp 0.442
Phase 70.2
PFD 0.0e+00
Delays (us)
SBD -0.003931
MBD -0.003167
Fringe rate (Hz)
-0.003583
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120837
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

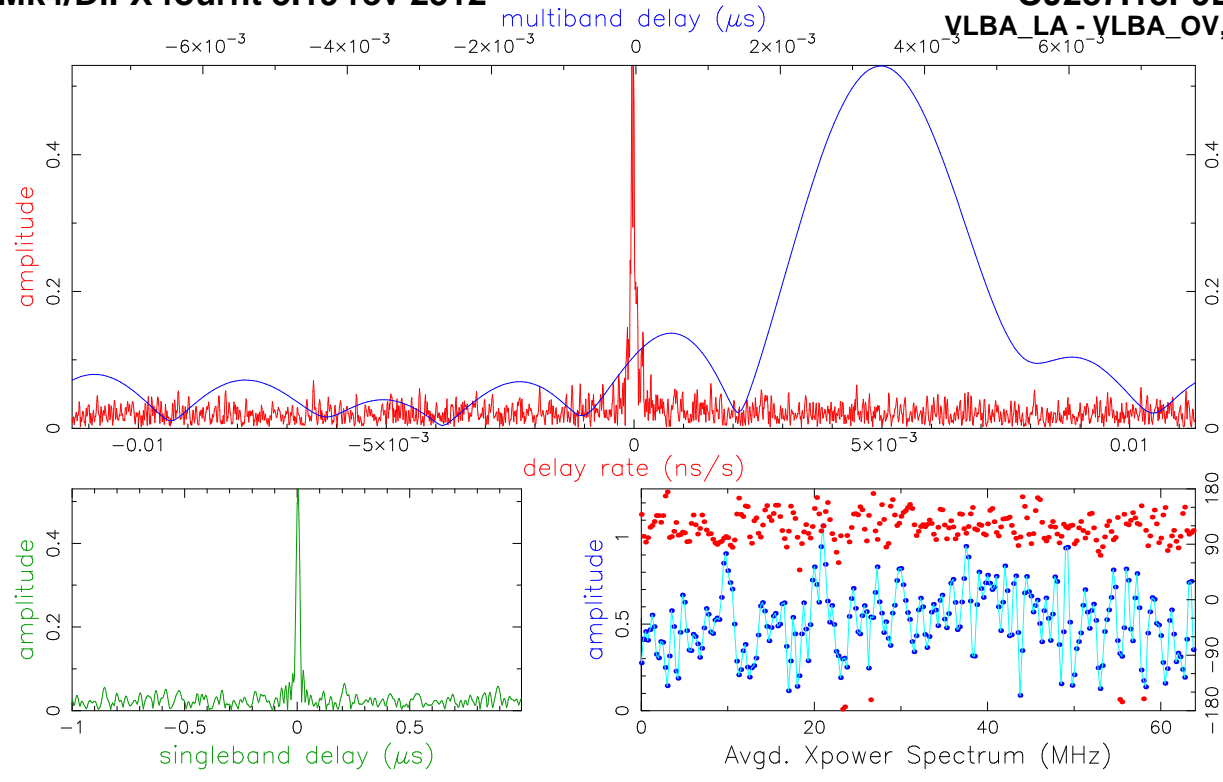
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.62781212114E+03					2.62781528777E+03			Resid mbdelay (usec)	-3.16664E-03 +/- 4.3E-05
Sband delay (usec)	2.62781135652E+03					-2.3753098E+01			Resid sbdelay (usec)	-3.93125E-03 +/- 3.4E-04
Phase delay (usec)	2.62781529004E+03					-3.5200000E-07			Resid phdelay (usec)	2.26266E-06 +/- 1.5E-07
Delay rate (us/s)	-1.38848475844E-01					-1.38848434252E-01			Resid rate (us/s)	-4.15923E-08 +/- 5.7E-10
Total phase (deg)			30.1			-1.48863493385E-05			Resid phase (deg)	70.2 +/- 4.5
	RMS	Theor.	Amplitude	0.442 +/- 0.017					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	53.5	10.8	Search (2048X32)	0.424					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	61.5	18.9	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	16.0	6.4	Inc. seg. avg.	0.671					Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
amp/frq (%)	31.1	11.2	Inc. frq. avg.	0.451					Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
									nlags: 256	t_cohere infinite
										ion window (TEC) 0.00 0.00

l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.192.18P9EC

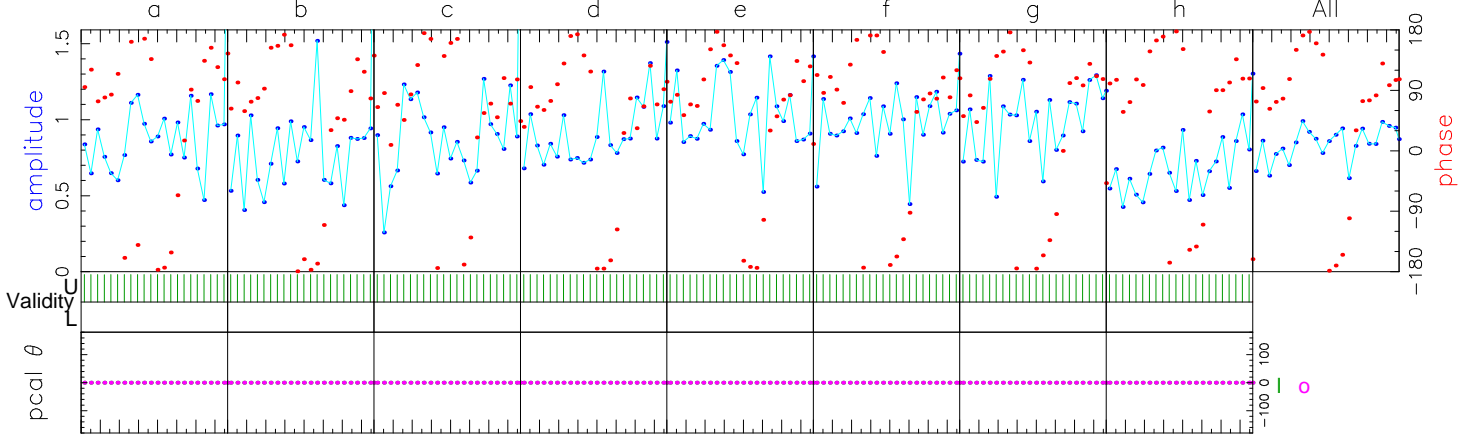


Fringe quality 6

SNR 30.4
Int time 439.432
Amp 0.530
Phase 120.2
PFD 0.0e+00
Delays (us)
SBD 0.003368
MBD 0.003376
Fringe rate (Hz)
-0.003597
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

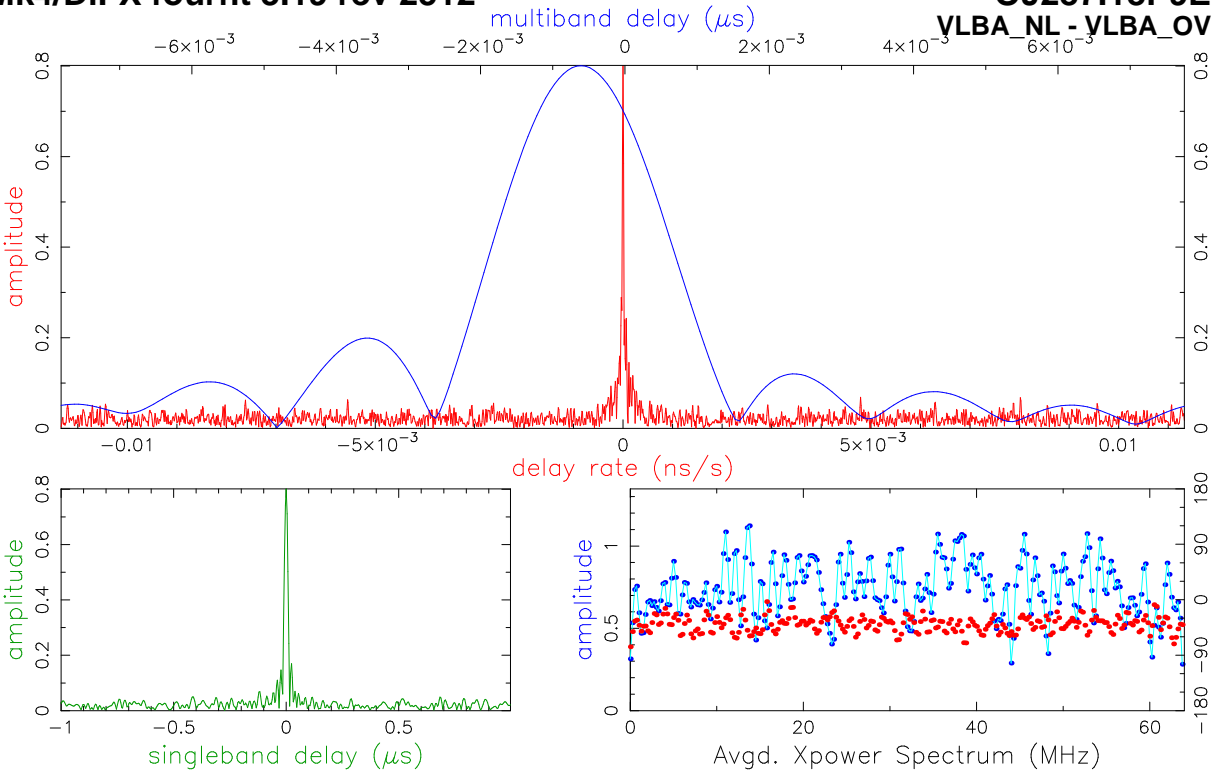
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120842
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.62781866426E+03		Apriori delay (usec)		2.62781528777E+03		Resid mbdelay (usec)		3.37649E-03	+/- 3.6E-05
Sband delay (usec)	2.62781865552E+03		Apriori clock (usec)		-2.3753098E+01		Resid sbdelay (usec)		3.36775E-03	+/- 2.8E-04
Phase delay (usec)	2.62781529165E+03		Apriori clockrate (us/s)		-3.5200000E-07		Resid phdelay (usec)		3.87615E-06	+/- 1.2E-07
Delay rate (us/s)	-1.38848476015E-01		Apriori rate (us/s)		-1.38848434252E-01		Resid rate (us/s)		-4.17631E-08	+/- 4.8E-10
Total phase (deg)	80.2		Apriori accel (us/s/s)		-1.48863493385E-05		Resid phase (deg)		120.2	+/- 3.8

ph/seg (deg) 56.0 9.0 Search (2048X32) 0.519 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.2 15.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.0 5.3 Inc. seg. avg. 0.832 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.5 9.3 Inc. frq. avg. 0.537 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.210.18P9EC

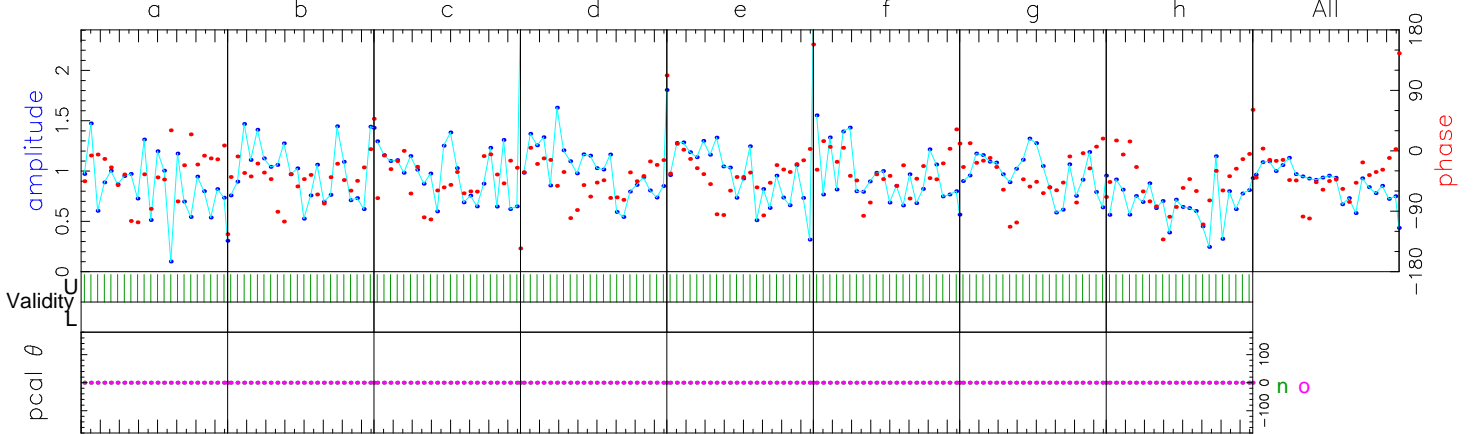


Fringe quality 8

SNR 45.9
 Int time 439.248
 Amp 0.801
 Phase -37.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.000393
 MBD -0.000619
 Fringe rate (Hz)
 -0.000332
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

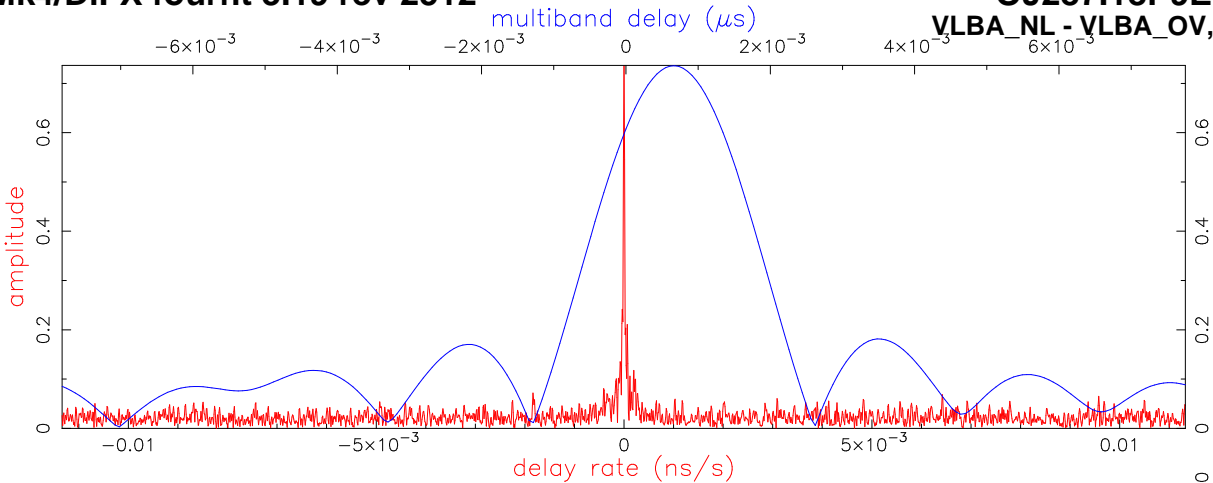
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120831
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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



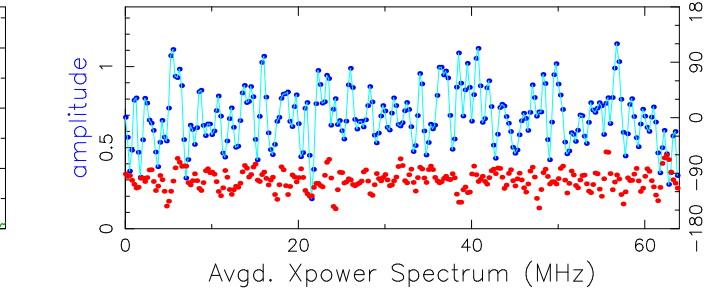
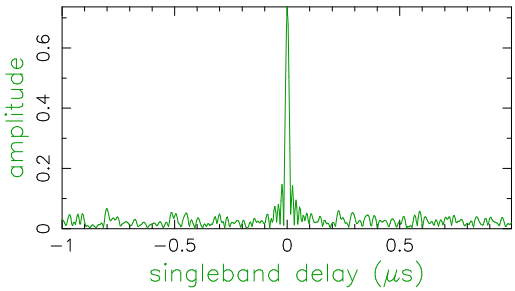
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.63441128455E+03		Apriori delay (usec)		4.63441190380E+03		Resid mbdelay (usec)		-6.19250E-04	+/- 2.4E-05
Sband delay (usec)	4.63441151055E+03		Apriori clock (usec)		1.2184303E+01		Resid sbdelay (usec)		-3.93250E-04	+/- 1.9E-04
Phase delay (usec)	4.63441190259E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		-1.21374E-06	+/- 8.0E-08
Delay rate (us/s)	-4.27108658538E-01		Apriori rate (us/s)		-4.27108654680E-01		Resid rate (us/s)		-3.85810E-09	+/- 3.2E-10
Total phase (deg)	104.1		Apriori accel (us/s/s)		-2.22197673975E-05		Resid phase (deg)		-37.6	+/- 2.5

ph/seg (deg) 28.0 6.0 Search (2048X32) 0.767 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 21.5 10.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.2 3.5 Inc. seg. avg. 0.894 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.2 6.2 Inc. frq. avg. 0.801 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 120.0 el 55.9 pa -43.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 2565.652 -142.504 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/no..18P9EC Output file: /Exps/c201a/v1/1234/No0027/no.W.167.18P9EC



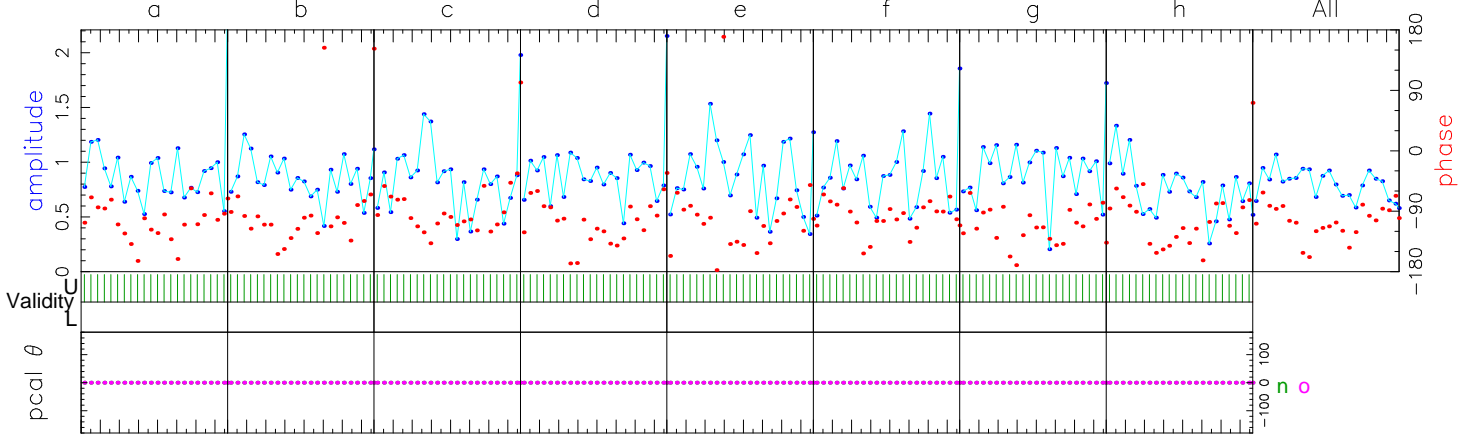
Fringe quality 8

SNR 42.2
 Int time 439.248
 Amp 0.737
 Phase -104.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.000385
 MBD 0.000672
 Fringe rate (Hz)
 -0.000417
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



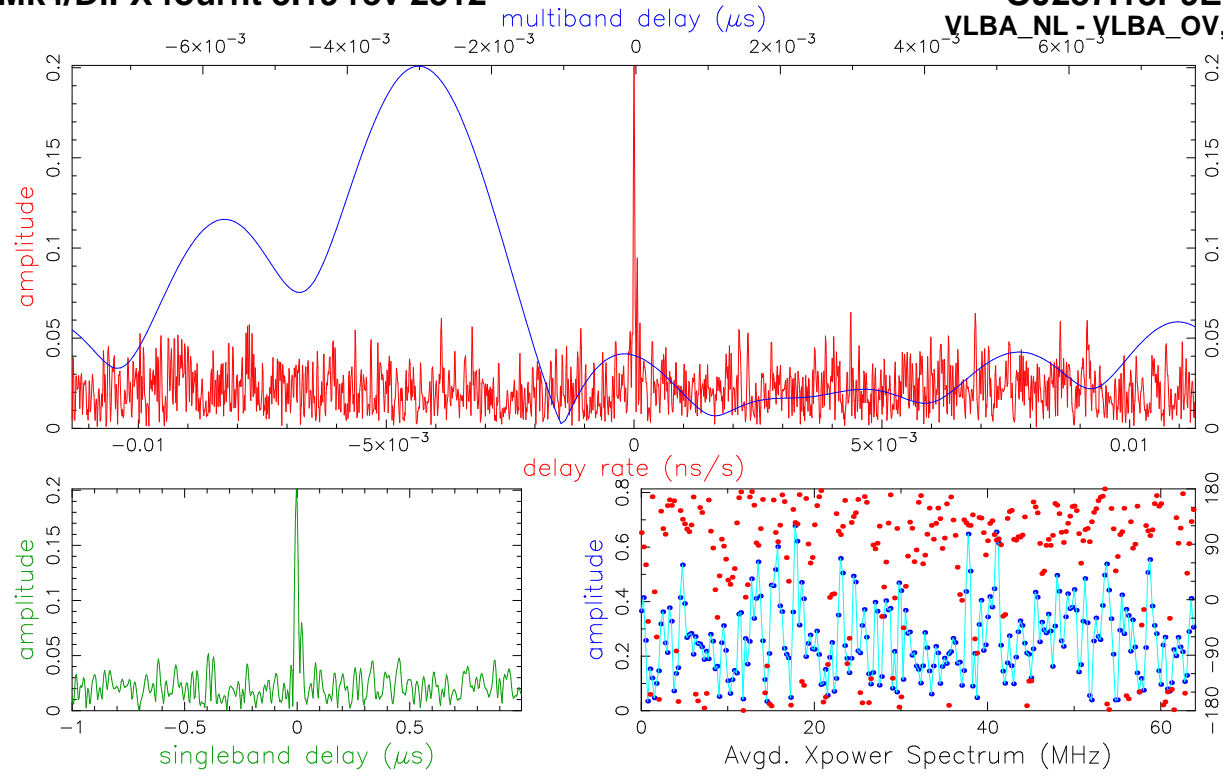
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120835
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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
	-104.1	-108.3	-93.7	-107.2	-110.8	-94.4	-111.7	-103.2	Phase	-104.2
	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.6	Ampl.	0.7
	256.8	257.1	257.2	257.2	257.3	257.0	257.1	257.1	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.63441257580E+03		Apriori delay (usec)		4.63441190380E+03		Resid mbdelay (usec)		6.72000E-04	+/- 2.6E-05
Sband delay (usec)	4.63441228905E+03		Apriori clock (usec)		1.2184303E+01		Resid sbdelay (usec)		3.85250E-04	+/- 2.0E-04
Phase delay (usec)	4.63441190044E+03		Apriori clockrate (us/s)		1.329997E-07		Resid phdelay (usec)		-3.36126E-06	+/- 8.8E-08
Delay rate (us/s)	-4.27108659518E-01		Apriori rate (us/s)		-4.27108654680E-01		Resid rate (us/s)		-4.83874E-09	+/- 3.4E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.22197673975E-05		Resid phase (deg)		-104.2	+/- 2.7

ph/seg (deg) 24.6 6.5 Amplitude 0.737 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 19.6 11.4 Search (2048X32) 0.689 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.5 3.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.3 6.7 Inc. seg. avg. 0.805 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 120.0 el 55.9 pa -43.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 2565.652 -142.504 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

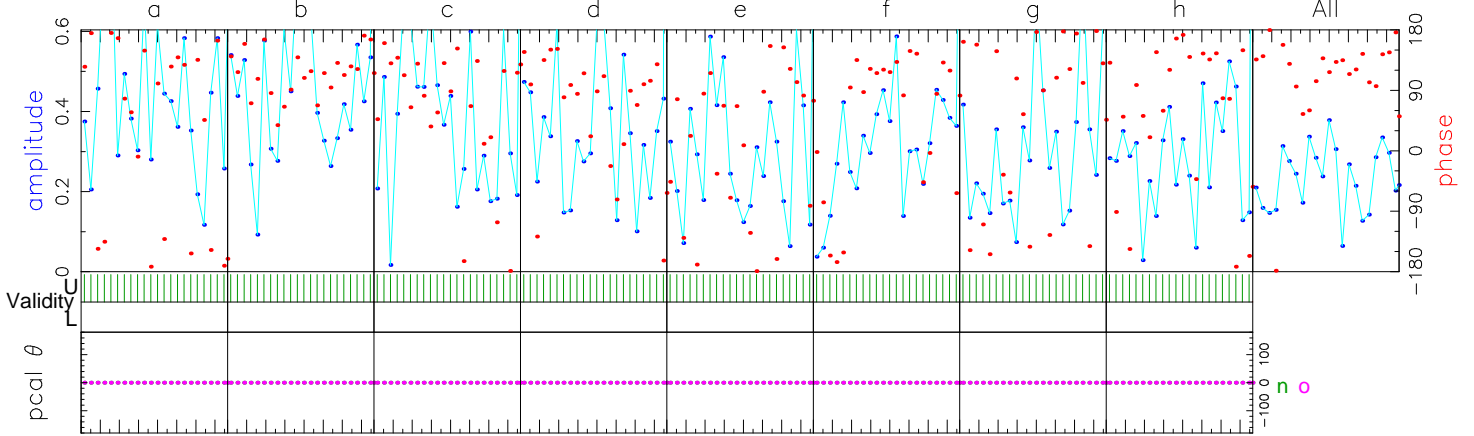


Fringe quality 9

SNR 11.5
 Int time 439.248
 Amp 0.201
 Phase 125.4
 PFD 4.2e-22
 Delays (us)
 SBD -0.003361
 MBD -0.003001
 Fringe rate (Hz)
 -0.000362
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

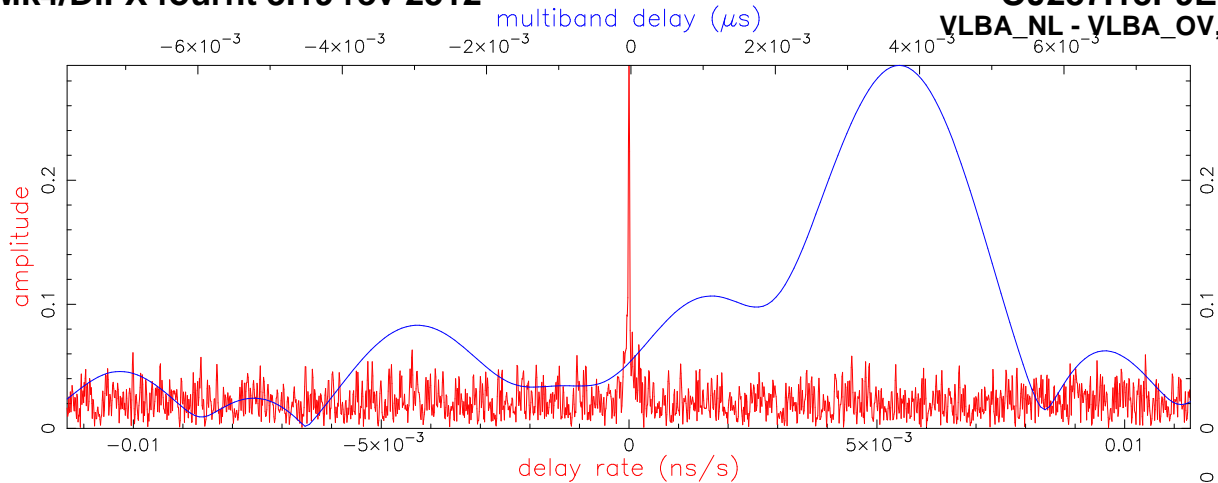
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120840
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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



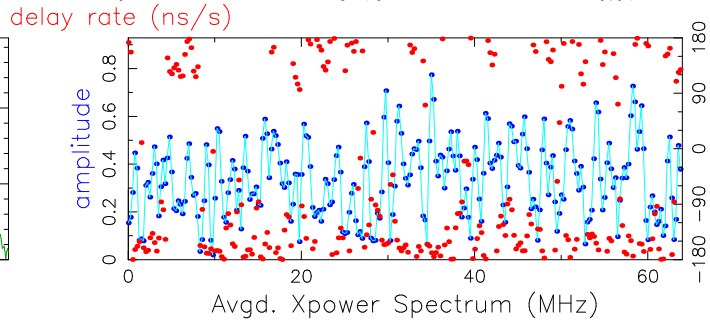
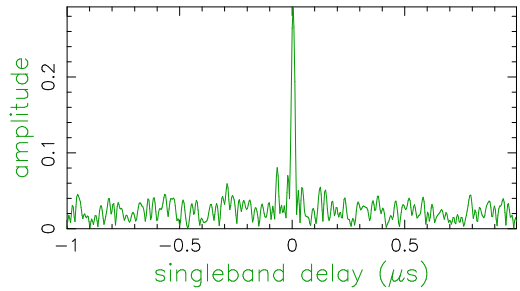
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	4.63440890315E+03		Apriori delay (usec)		4.63441190380E+03		Resid mbdelay (usec)		-3.00066E-03	+/- 9.4E-05
Sband delay (usec)	4.63440854255E+03		Apriori clock (usec)		1.2184303E+01		Resid sbdelay (usec)		-3.36125E-03	+/- 7.5E-04
Phase delay (usec)	4.63441190785E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		4.04438E-06	+/- 3.2E-07
Delay rate (us/s)	-4.27108658888E-01		Apriori rate (us/s)		-4.27108654680E-01		Resid rate (us/s)		-4.20812E-09	+/- 1.3E-09
Total phase (deg)	267.1		Apriori accel (us/s/s)		-2.22197673975E-05		Resid phase (deg)		125.4	+/- 9.9

ph/seg (deg) 32.9 23.8 Search (2048X32) 0.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.8 41.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.7 14.0 Inc. seg. avg. 0.216 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.3 24.5 Inc. frq. avg. 0.209 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 120.0 el 55.9 pa -43.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 2565.652 -142.504 simultaneous interpolator



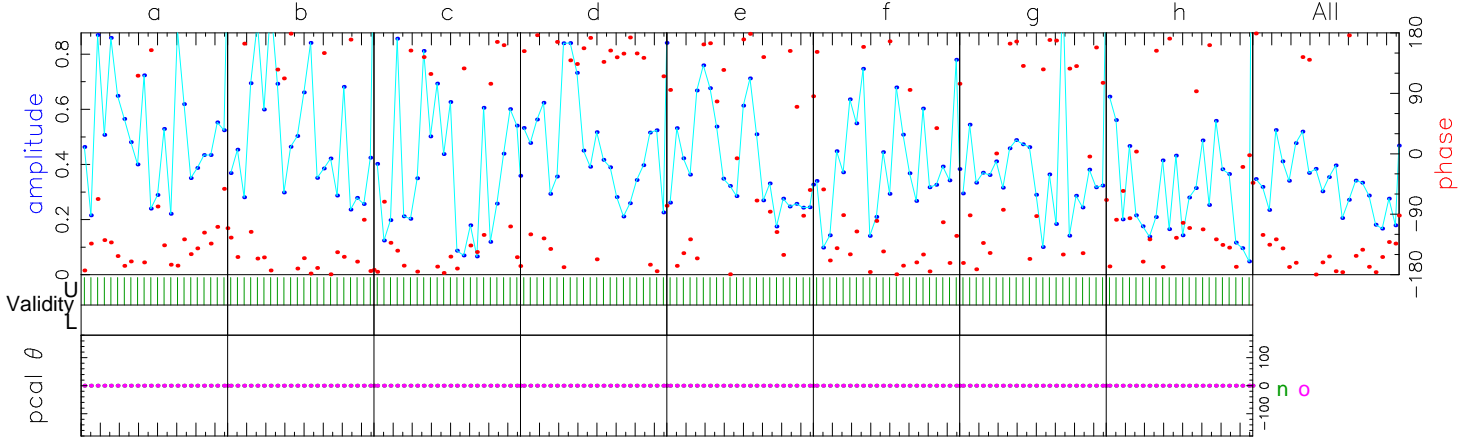
Fringe quality 9

SNR 16.8
 Int time 439.248
 Amp 0.292
 Phase -162.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.003954
 MBD 0.003718
 Fringe rate (Hz) -0.000457
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



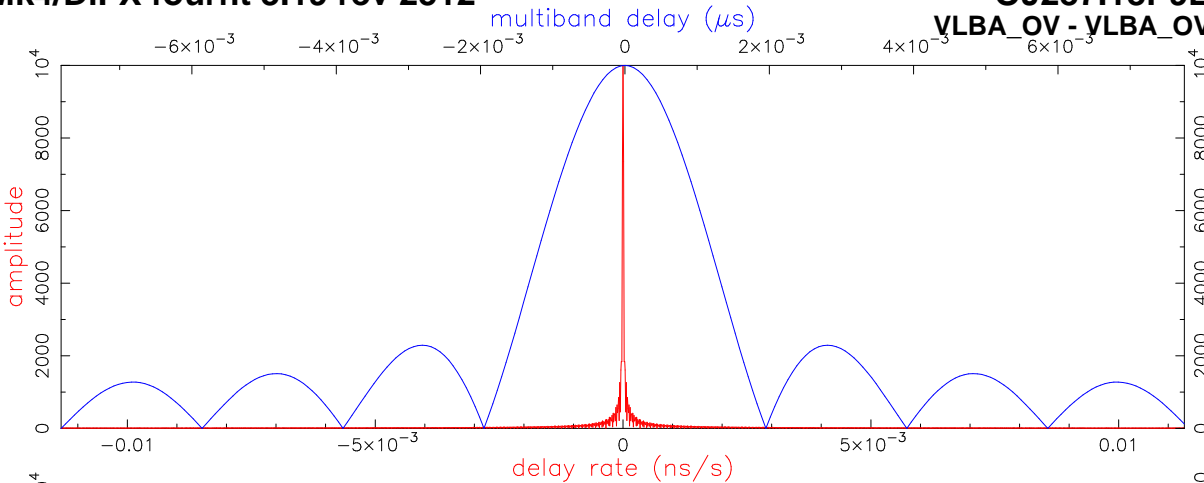
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120844
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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



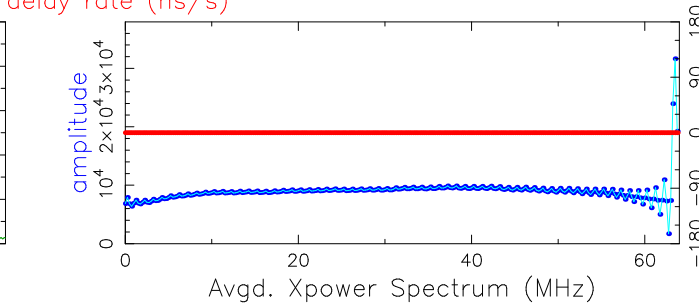
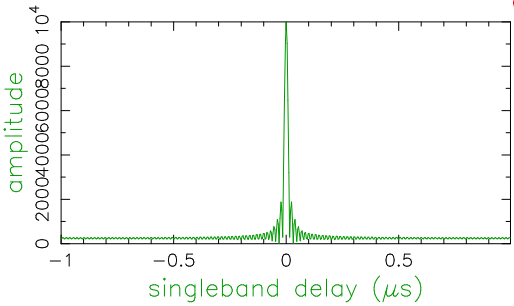
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-138.0	-167.9	-167.4	170.7	-175.7	-155.5	-165.9	-133.1	Phase	-162.6
	0.4	0.4	0.3	0.4	0.2	0.3	0.2	0.2	Ampl.	0.3
	257.6	258.0	258.2	257.9	258.1	257.9	258.1	257.5	Sbd box	258.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.63441562162E+03		Apriori delay (usec)		4.63441190380E+03		Resid mbdelay (usec)		3.71781E-03	+/- 6.5E-05
Sband delay (usec)	4.63441585830E+03		Apriori clock (usec)		1.2184303E+01		Resid sbdelay (usec)		3.95450E-03	+/- 5.1E-04
Phase delay (usec)	4.63441189856E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		-5.24269E-06	+/- 2.2E-07
Delay rate (us/s)	-4.27108659987E-01		Apriori rate (us/s)		-4.27108654680E-01		Resid rate (us/s)		-5.30781E-09	+/- 8.7E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.22197673975E-05		Resid phase (deg)		-162.6	+/- 6.8

ph/seg (deg) 25.8 16.4 Search (2048X32) 0.272 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.1 28.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.3 9.7 Inc. seg. avg. 0.316 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.2 16.9 Inc. frq. avg. 0.303 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 120.0 el 55.9 pa -43.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 2565.652 -142.504 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/no..18P9EC Output file: /Exps/c201a/v1/1234/No0027/no.W.223.18P9EC



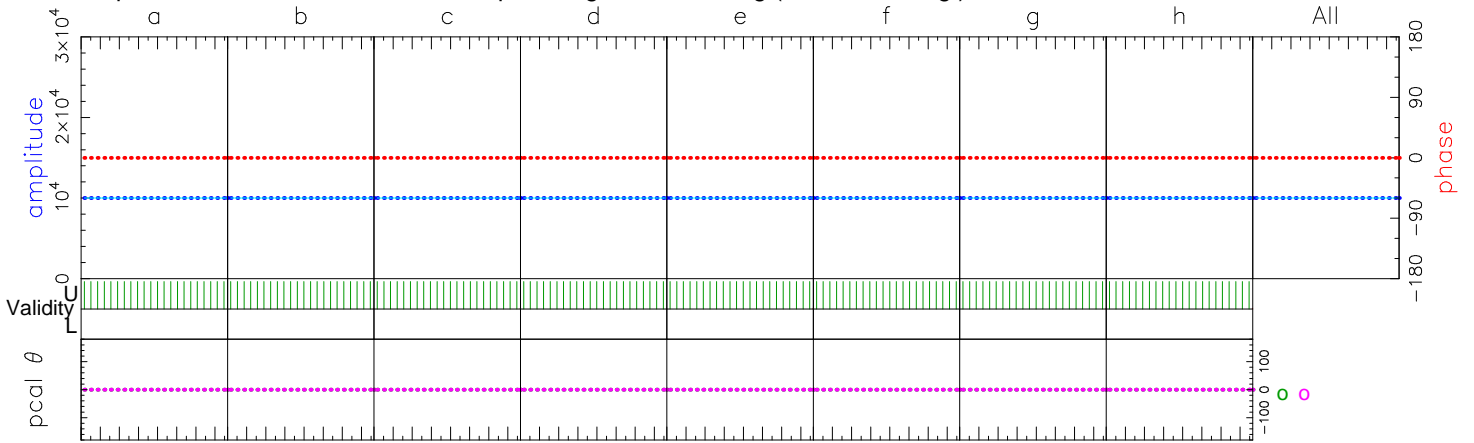
Fringe quality 9

SNR 573472.8
Int time 439.775
Amp 10000.000
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120832
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

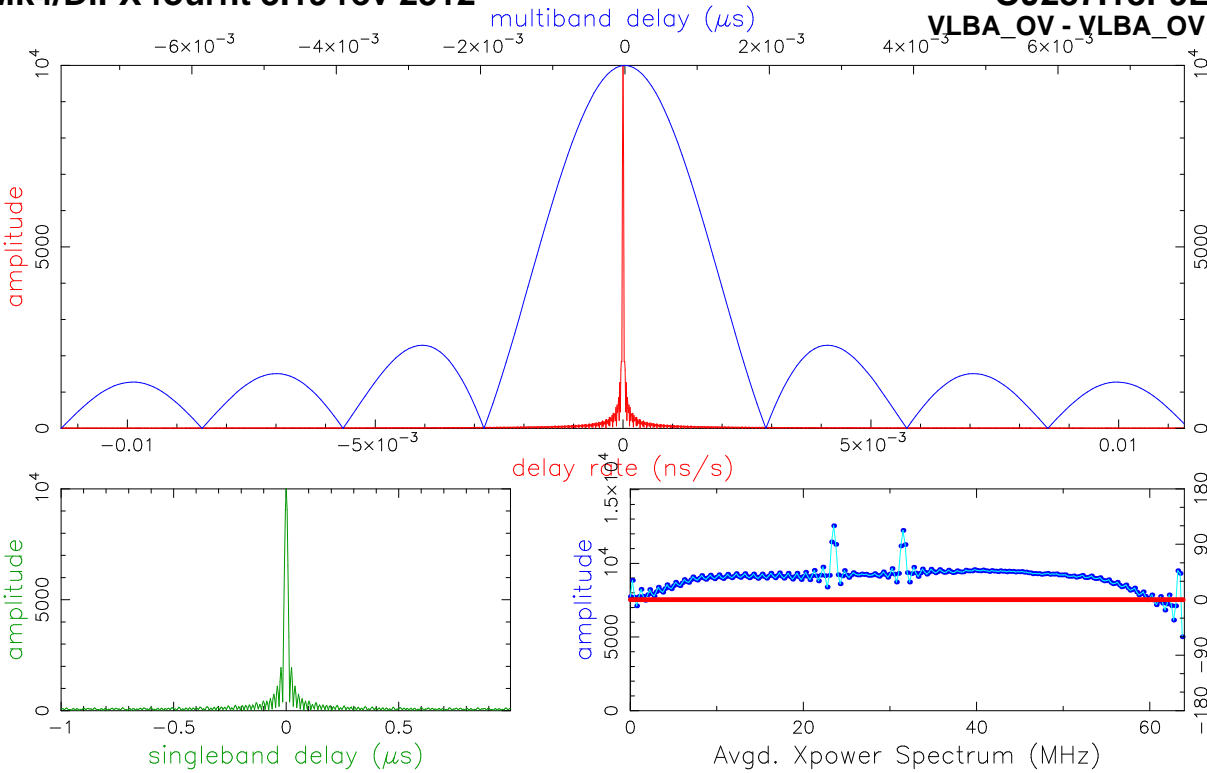
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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	Ampl.	10000.0
o	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

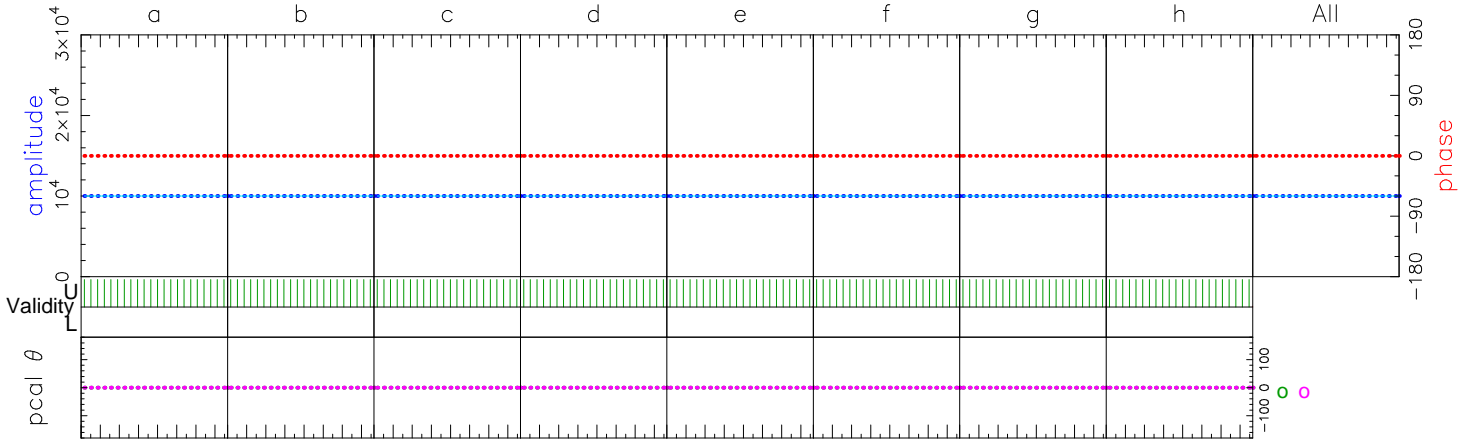
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-3.22684823564E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.22685E-20	+/-	6.4E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.5E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 o: az 92.1 el 37.2 pa -57.9 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator



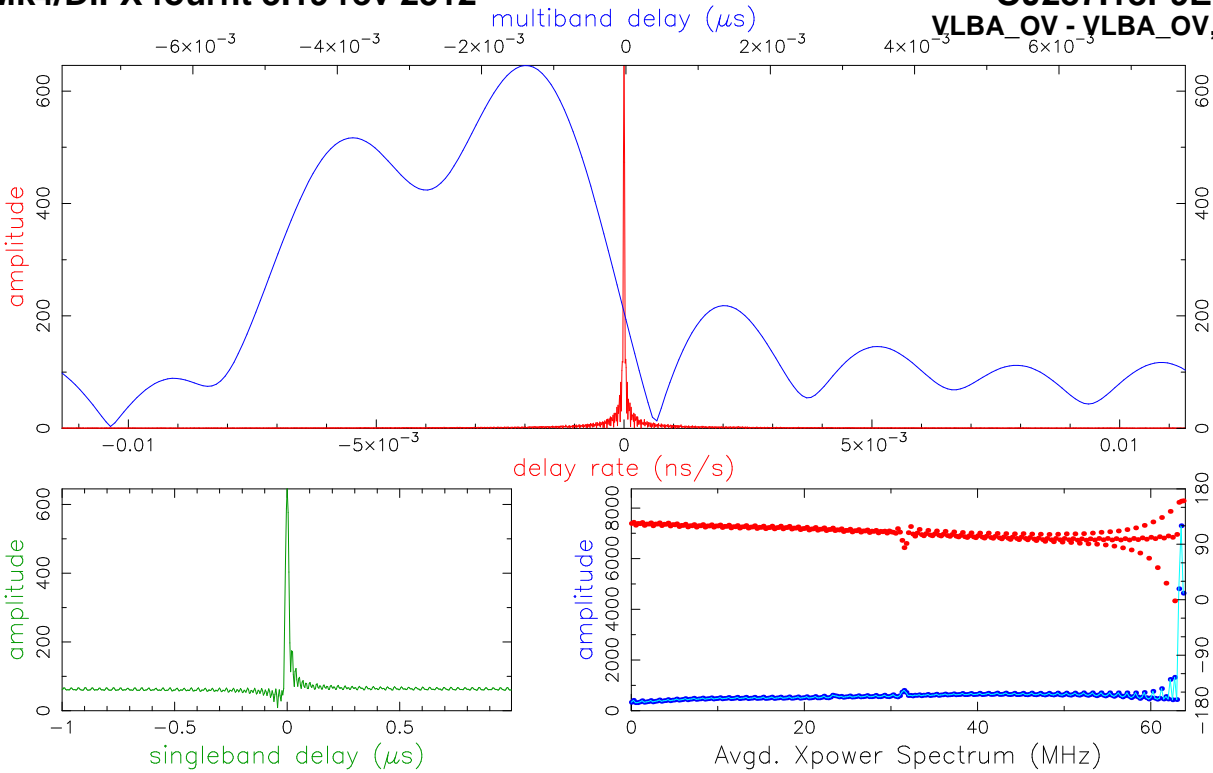
Fringe quality 9
SNR 573472.8
Int time 439.775
Amp 10000.001
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120836
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	Ampl.	10000.0
o	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00								Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.000000000000E+00								Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	7.14776533785E-20								Resid phdelay (usec)	7.14777E-20 +/- 6.4E-12
Delay rate (us/s)	0.000000000000E+00								Resid rate (us/s)	0.00000E+00 +/- 2.5E-14
Total phase (deg)		0.0							Resid phase (deg)	0.0 +/- 0.0

RMS Theor. Amplitude 10000.001 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.001 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. 10000.001 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
o: az 92.1 el 37.2 pa -57.9 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/oo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/oo.W.184.18P9EC

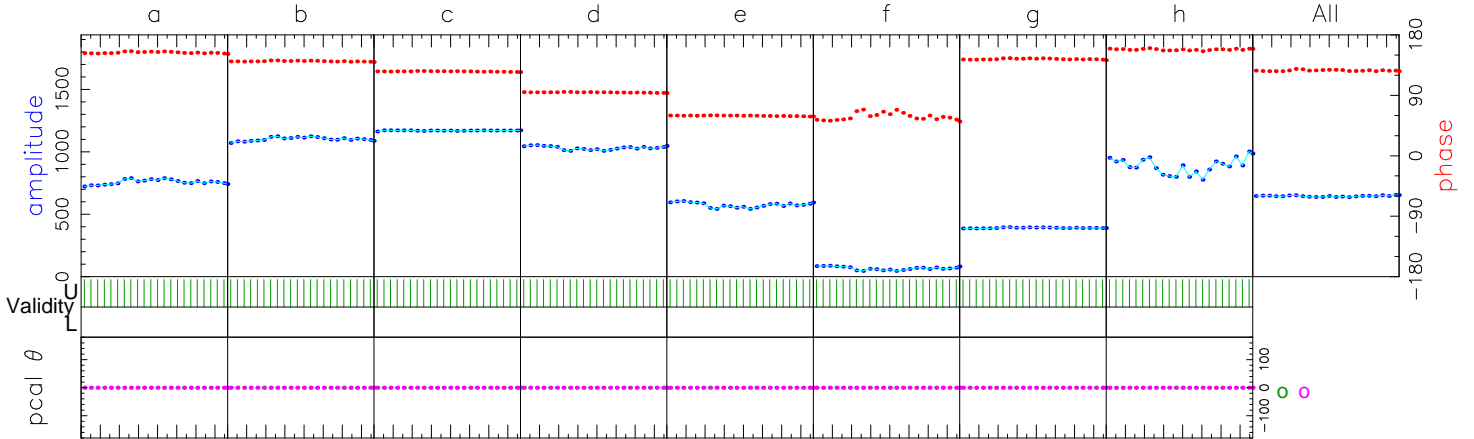


Fringe quality 5

SNR 37026.1
Int time 439.775
Amp 645.647
Phase 126.9
PFD 0.0e+00
Delays (us)
SBD -0.000145
MBD -0.001385
Fringe rate (Hz) 0.000007
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120840
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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.38493750000E-03									
Sband delay (usec)	-1.44750000000E-04									
Phase delay (usec)	4.09240243048E-06									
Delay rate (us/s)	8.00670110130E-11									
Total phase (deg)			126.9							
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										
ion window (TEC)										
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) 0.9 0.0
amp/seg (%) 0.8 0.0
ph/frq (deg) 45.8 0.0
amp/frq (%) 57.6 0.0

o: az 92.1 el 37.2 pa -57.9
Control file: cf_1234_gmva

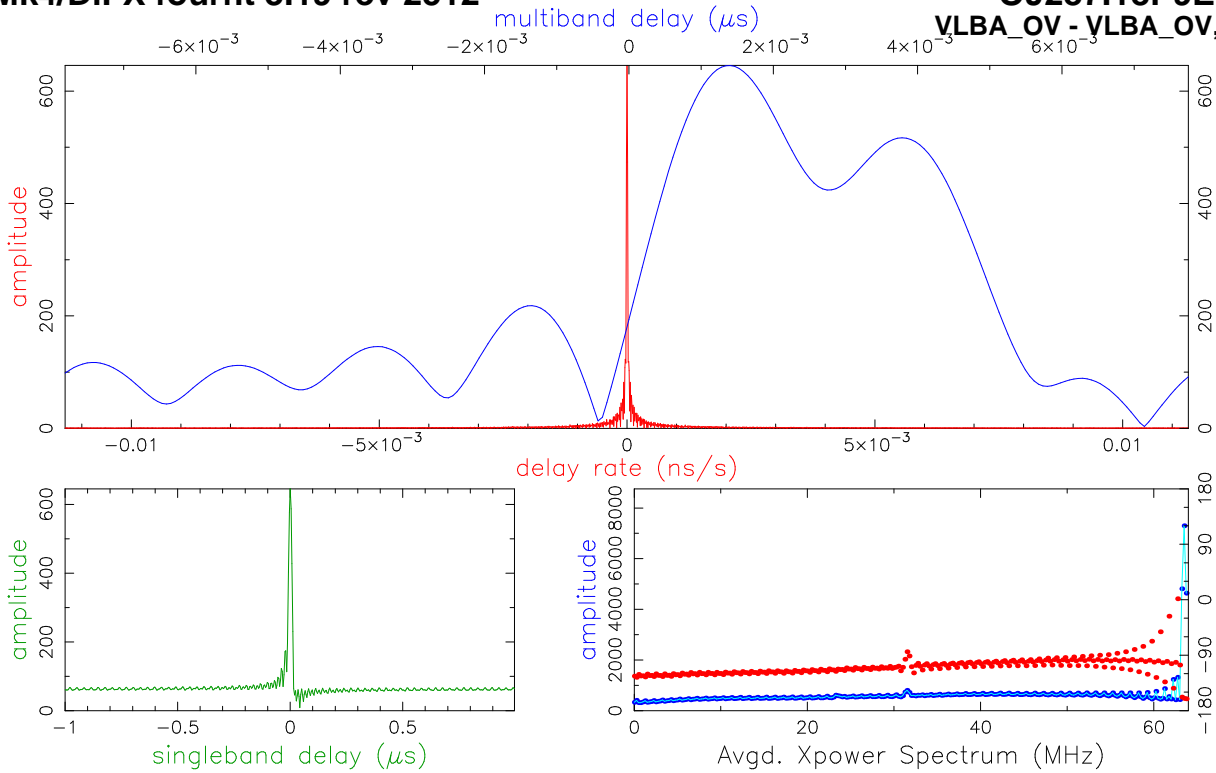
o: az 92.1 el 37.2 pa -57.9
Input file: /Exps/c201a/v1/1234/No0027/oo..18P9EC

u,v (fr/asec) 0.000 0.000
Output file: /Exps/c201a/v1/1234/No0027/oo.W.204.18P9EC

simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, oo
VLBA_OV - VLBA_OV, fgroup W, pol RL

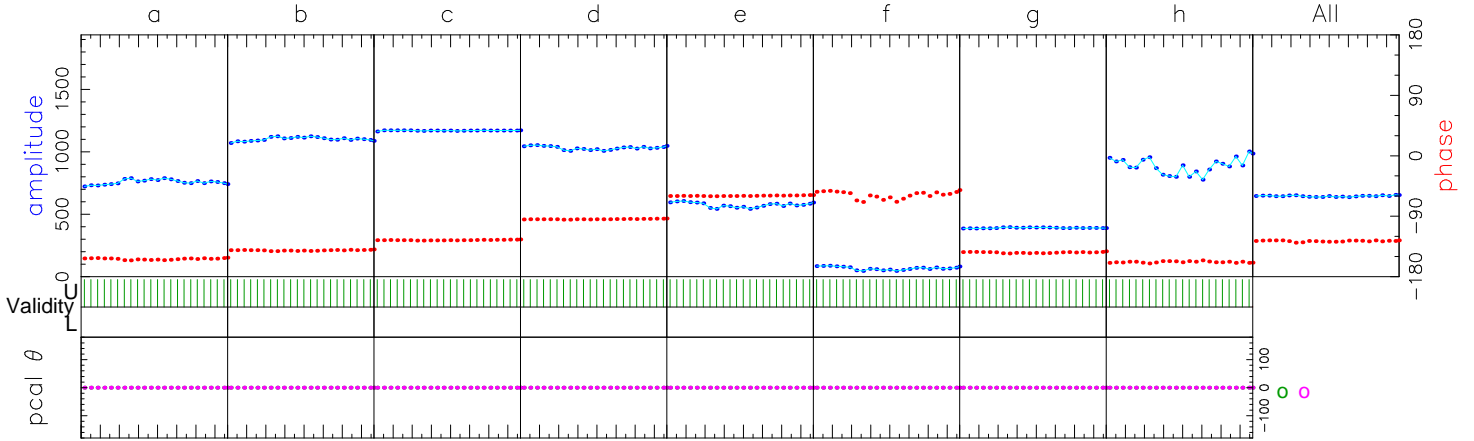


Fringe quality 5

SNR 37026.1
Int time 439.775
Amp 645.647
Phase -126.9
PFD 0.0e+00
Delays (us)
SBD 0.000145
MBD 0.001385
Fringe rate (Hz)
-0.000007
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120844
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

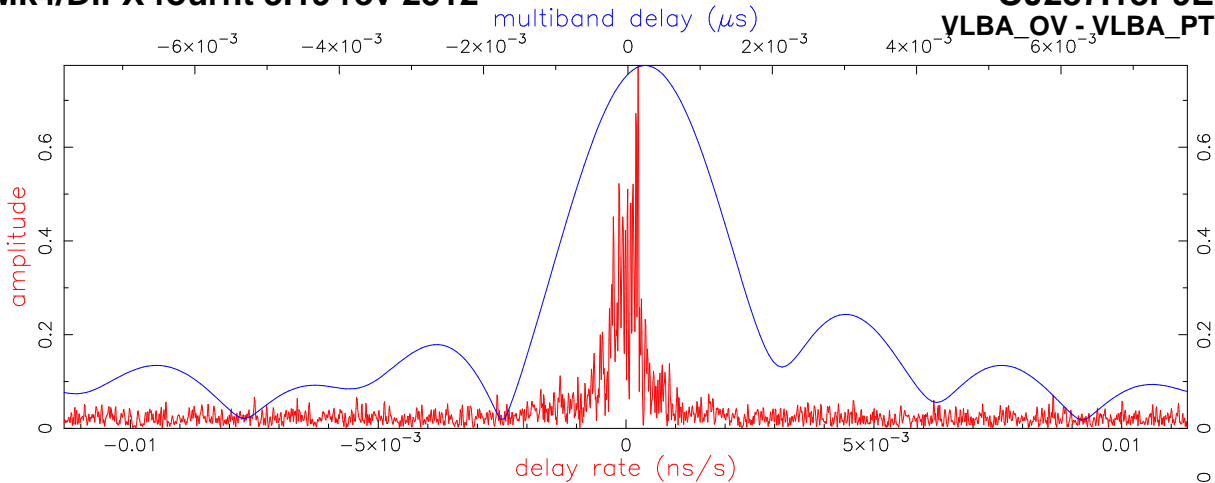


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-153.6	-140.7	-125.5	-94.3	-59.5	-57.6	-143.9	-158.1	Phase	-126.9
	758.9	1102.7	1170.2	1031.0	574.7	67.2	391.6	885.8	Ampl.	747.8
	257.3	257.8	257.7	257.8	257.7	254.8	257.4	256.7	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
o	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 1.38493750000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.38494E-03 +/- 2.9E-08
 Sband delay (usec) 1.44750000000E-04 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 1.44750E-04 +/- 2.3E-07
 Phase delay (usec) -4.09240243043E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -4.09240E-06 +/- 1.0E-10
 Delay rate (us/s) -8.00670110130E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -8.00670E-11 +/- 3.9E-13
 Total phase (deg) -126.9 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -126.9 +/- 0.0

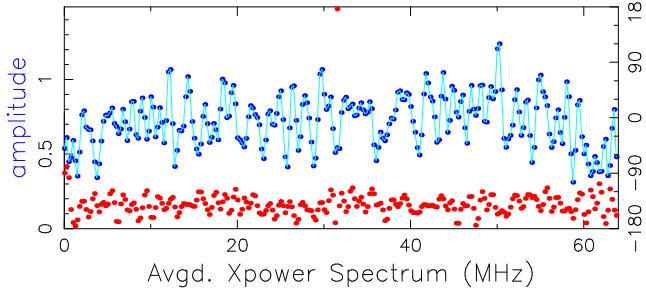
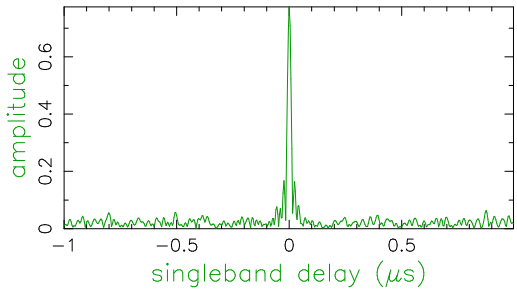
RMS Theor. Amplitude 645.647 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.9 0.0 Search (2048X32) 643.809 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.8 0.0 Inc. seg. avg. 645.630 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 57.6 0.0 Inc. frq. avg. 747.771 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 92.1 el 37.2 pa -57.9 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/oo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/oo.W.224.18P9EC



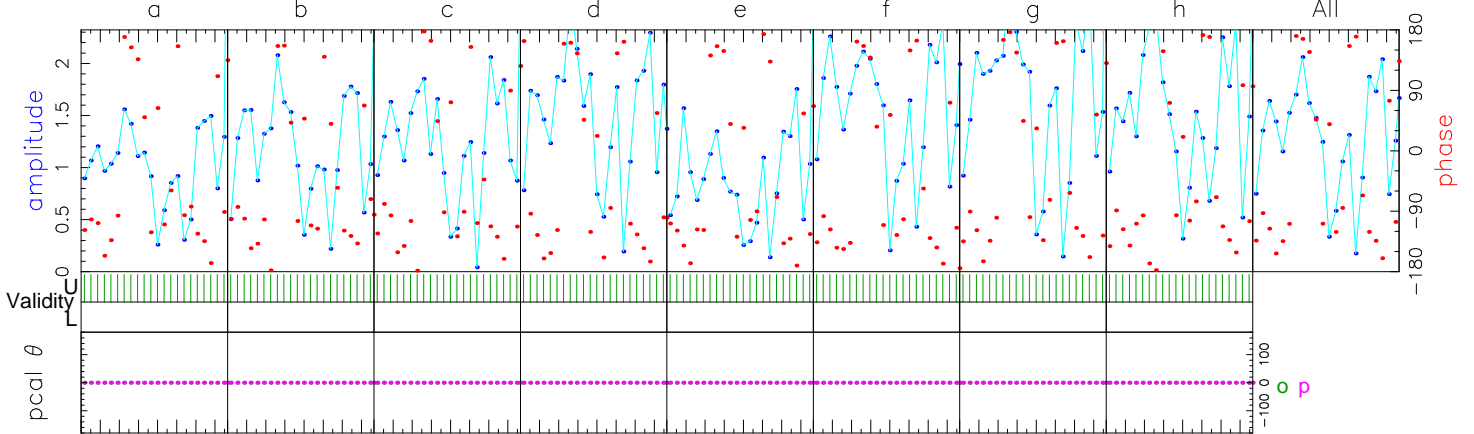
Fringe quality 6

SNR 44.4
Int time 438.742
Amp 0.774
Phase -142.3
PFD 0.0e+00
Delays (us)
SBD 0.000140
MBD 0.000245
Fringe rate (Hz)
0.020701
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



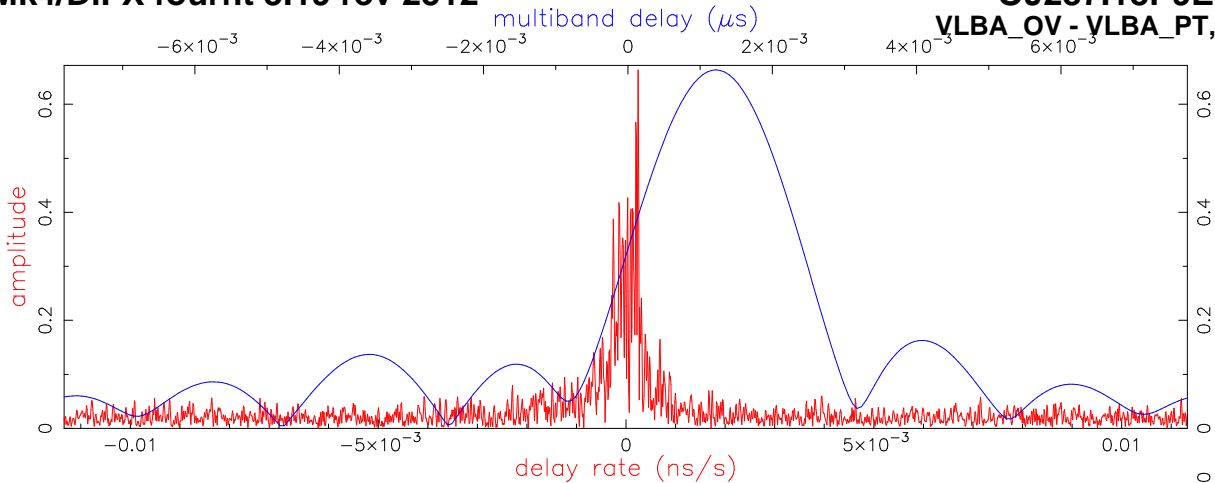
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120833
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



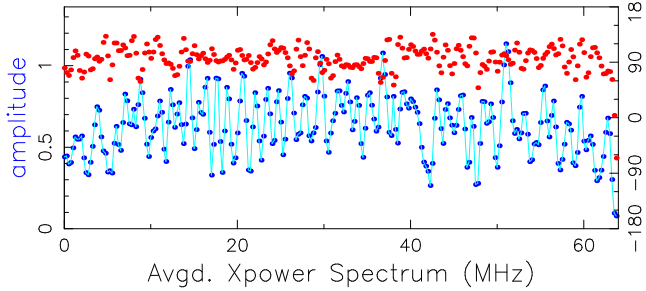
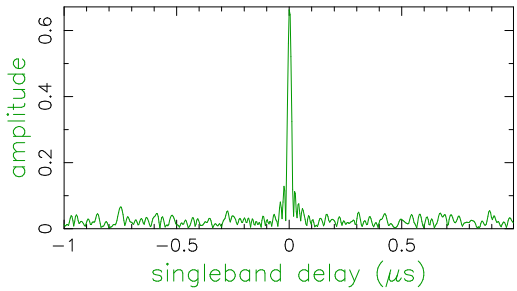
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.9	-131.8	-134.7	-153.3	-151.8	-149.1	-141.9	-133.8	Phase	-142.3
	0.6	0.6	0.7	0.9	0.6	0.9	1.0	1.0	Ampl.	0.8
	257.4	256.7	257.2	256.8	257.3	256.9	257.2	257.1	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	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)	-2.31986919790E+03		Apriori delay (usec)		-2.31986944245E+03		Resid mbdelay (usec)		2.44554E-04	+/- 2.4E-05
Sband delay (usec)	-2.31986930245E+03		Apriori clock (usec)		2.8079510E+00		Resid sbdelay (usec)		1.40000E-04	+/- 1.9E-04
Phase delay (usec)	-2.31986944704E+03		Apriori clockrate (us/s)		-2.8865799E-09		Resid phdelay (usec)		-4.59011E-06	+/- 8.3E-08
Delay rate (us/s)	9.61190643619E-02		Apriori rate (us/s)		9.61188240468E-02		Resid rate (us/s)		2.40315E-07	+/- 3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		1.39498675203E-05		Resid phase (deg)		-142.3	+/- 2.6

ph/seg (deg) 72.2 6.2 Search (2048X32) 0.733 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.9 10.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.1 3.7 Inc. seg. avg. 1.266 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.9 6.4 Inc. frq. avg. 0.780 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator



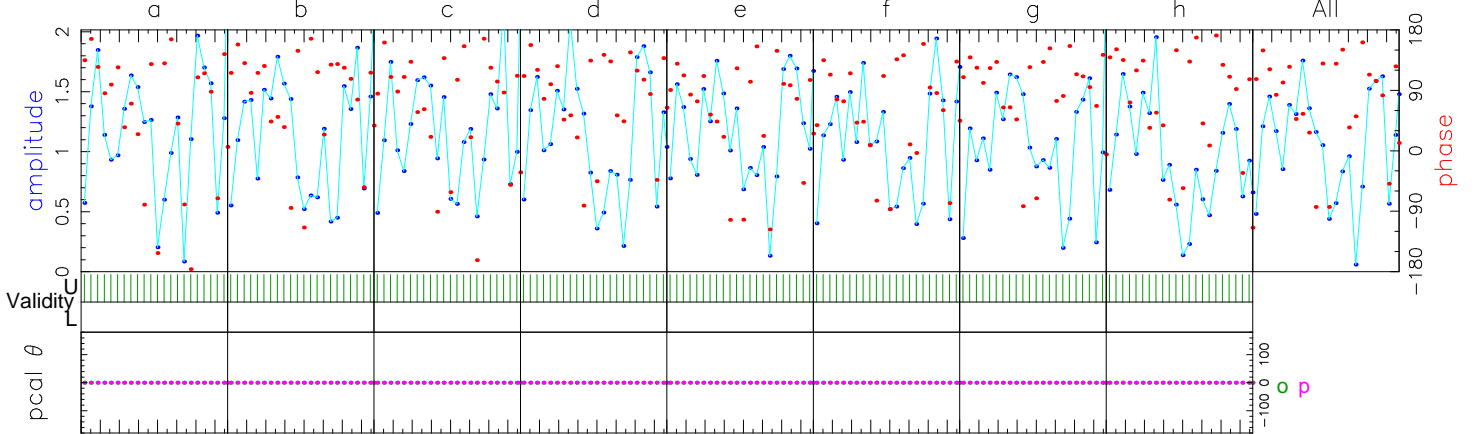
Fringe quality 7

SNR 38.5
 Int time 438.743
 Amp 0.672
 Phase 98.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.001461
 MBD 0.001247
 Fringe rate (Hz) 0.020694
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120838
 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

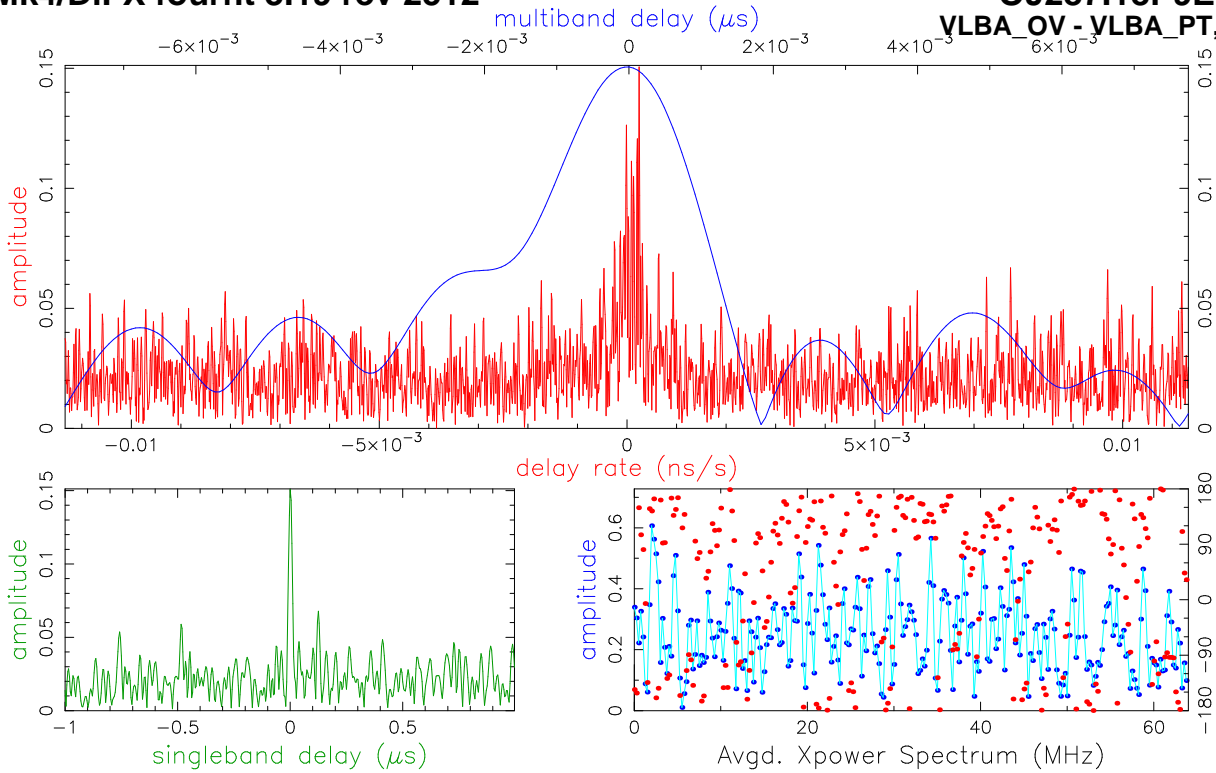


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.31986819580E+03	Apriori delay (usec)	-2.31986944245E+03	Resid mbdelay (usec)	1.24665E-03	+/-	2.8E-05
Sband delay (usec)	-2.31986798095E+03	Apriori clock (usec)	2.8079510E+00	Resid sbdelay (usec)	1.46150E-03	+/-	2.2E-04
Phase delay (usec)	-2.31986943928E+03	Apriori clockrate (us/s)	-2.8865799E-09	Resid phdelay (usec)	3.17135E-06	+/-	9.6E-08
Delay rate (us/s)	9.61190642804E-02	Apriori rate (us/s)	9.61188240468E-02	Resid rate (us/s)	2.40234E-07	+/-	3.8E-10
Total phase (deg)	-179.8	Apriori accel (us/s/s)	1.39498675203E-05	Resid phase (deg)	98.3	+/-	3.0

ph/seg (deg)	RMS 72.3	Theor. 7.1	Amplitude Search (2048X32)	0.672 +/- 0.017	0.626	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	86.8	12.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	9.0	4.2	Inc. seg. avg.	1.050	1.050	Bits/sample: 2x2	Sample rate(MSamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	6.2	7.3	Inc. frq. avg.	0.668	0.668	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/op..18P9EC Output file: /Exps/c201a/v1/1234/No0027/op.W.198.18P9EC

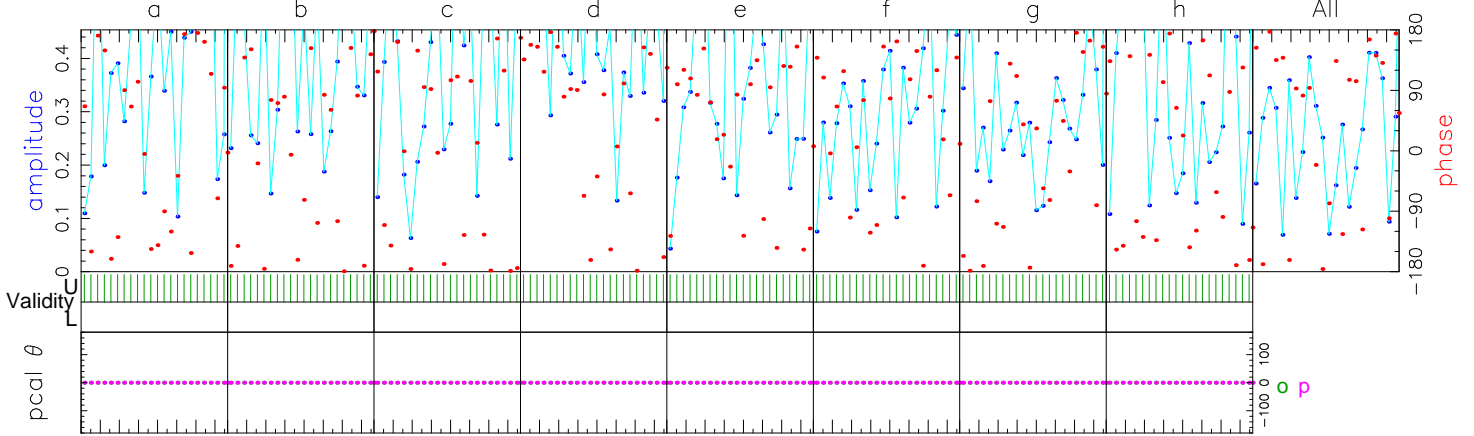


Fringe quality 9

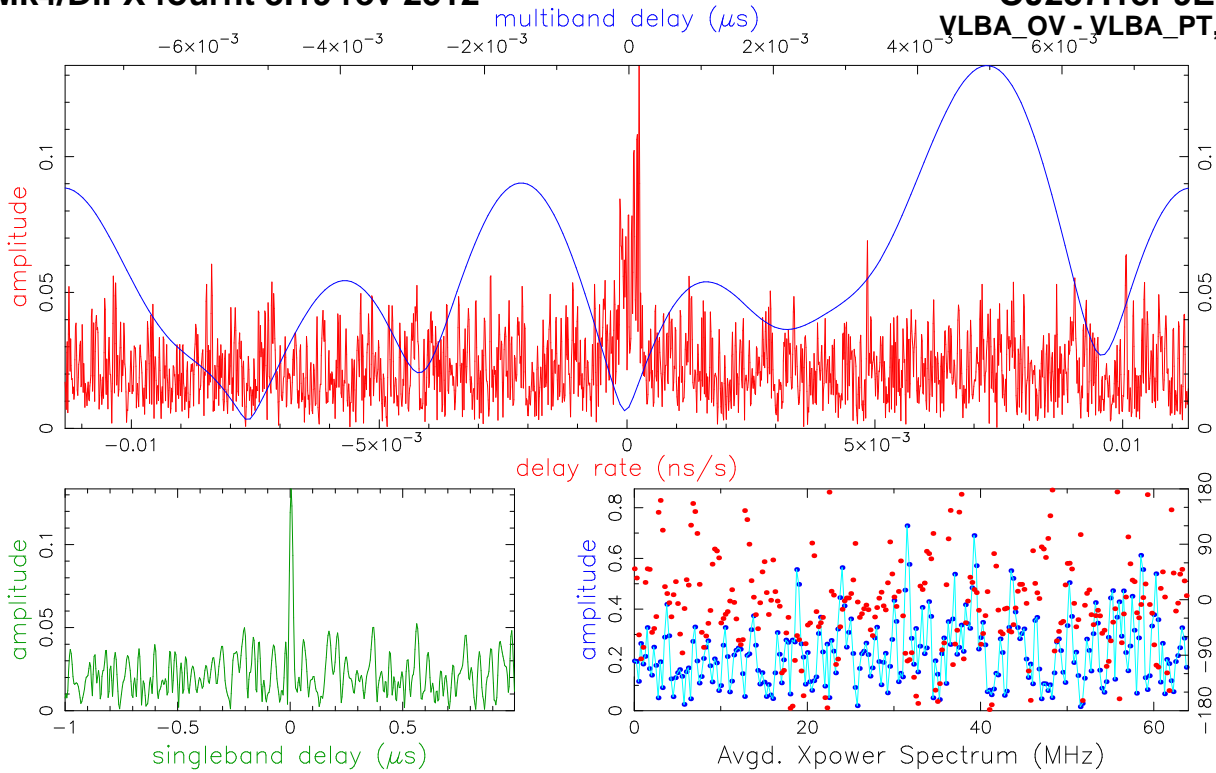
SNR 8.7
Int time 438.743
Amp 0.151
Phase 157.0
PFD 1.7e-09
Delays (us)
SBD 0.000847
MBD -0.000025
Fringe rate (Hz) 0.020715
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120843
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

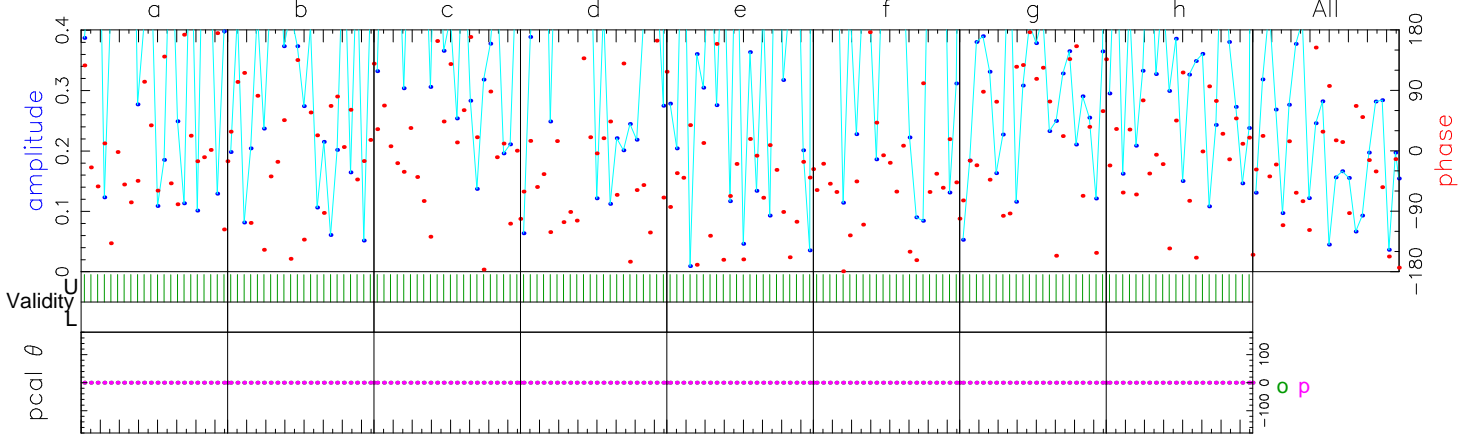


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-2.31986946746E+03				-2.31986944245E+03				Resid mbdelay (usec)	-2.50089E-05 +/- 1.3E-04
Sband delay (usec)	-2.31986859495E+03				2.8079510E+00				Resid sbdelay (usec)	8.47500E-04 +/- 9.9E-04
Phase delay (usec)	-2.31986943739E+03				-2.8865799E-09				Resid phdelay (usec)	5.06301E-06 +/- 4.3E-07
Delay rate (us/s)	9.61190645227E-02				9.61188240468E-02				Resid rate (us/s)	2.40476E-07 +/- 1.7E-09
Total phase (deg)			-121.2		1.39498675203E-05				Resid phase (deg)	157.0 +/- 13.2
	RMS	Theor.	Amplitude	0.151 +/- 0.017					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	66.5	31.7	Search (2048X32)	0.145					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	97.7	55.4	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	27.1	18.7	Inc. seg. avg.	0.218					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	39.2	32.7	Inc. frq. avg.	0.152					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
o: az 92.1 el 37.2 pa -57.9			p: az 96.0 el 45.7 pa -60.9						u,v (fr/asec) -563.218 747.211	simultaneous interpolator



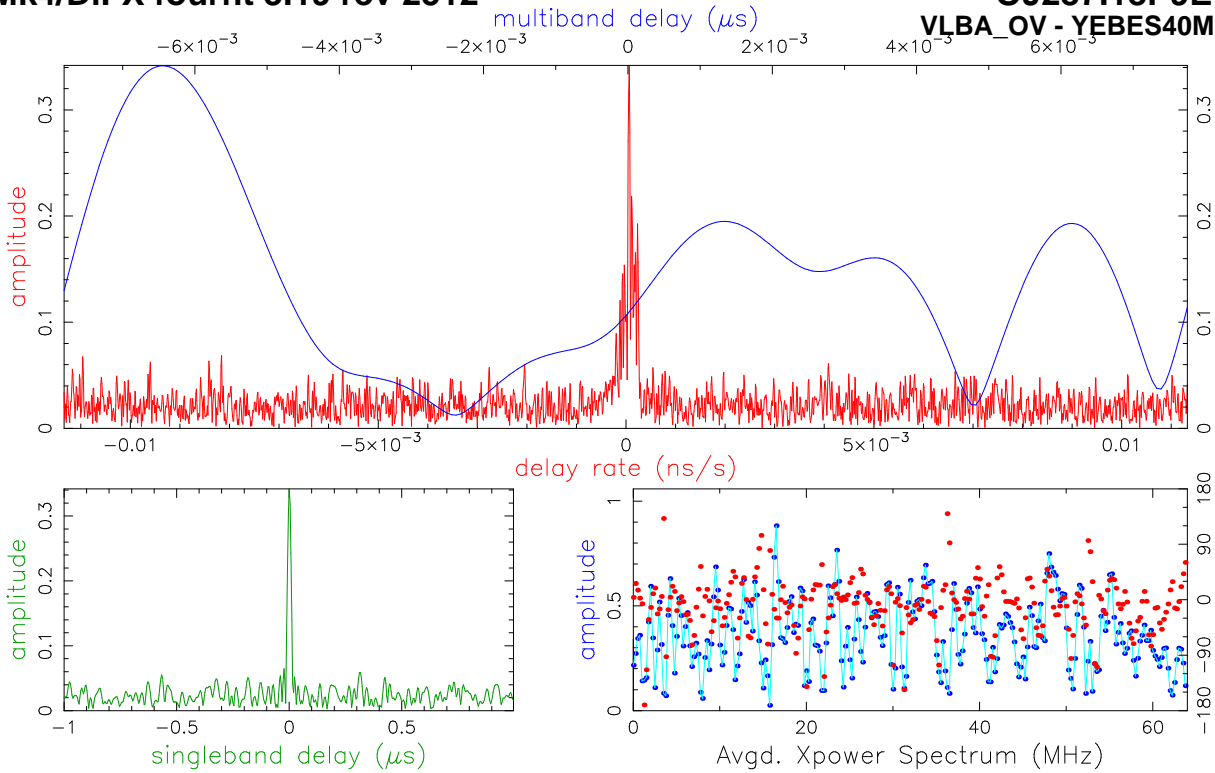
Fringe quality 9
SNR 7.6
Int time 438.742
Amp 0.134
Phase -26.4
PFD 6.6e-06
Delays (us)
SBD 0.004198
MBD 0.004975
Fringe rate (Hz) 0.020745
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120847
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



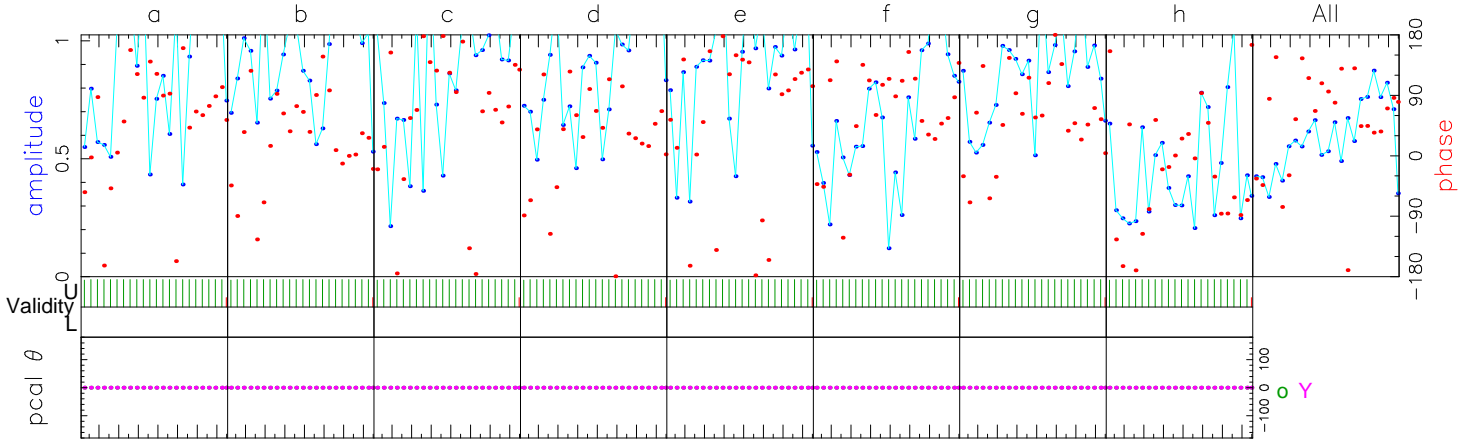
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-30.7	21.8	17.1	-57.7	-71.6	-52.0	98.8	6.7	Phase	-26.4
	0.2	0.1	0.2	0.2	0.2	0.3	0.1	0.2	Ampl.	0.2
	257.9	241.8	257.5	257.9	258.4	258.4	118.1	258.8	Sbd box	258.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.31986446715E+03		Apriori delay (usec)		-2.31986944245E+03		Resid mbdelay (usec)		4.97530E-03	+/- 1.4E-04
Sband delay (usec)	-2.31986524420E+03		Apriori clock (usec)		2.8079510E+00		Resid sbdelay (usec)		4.19825E-03	+/- 1.1E-03
Phase delay (usec)	-2.31986944330E+03		Apriori clockrate (us/s)		-2.8865799E-09		Resid phdelay (usec)		-8.50097E-07	+/- 4.8E-07
Delay rate (us/s)	9.61190648791E-02		Apriori rate (us/s)		9.61188240468E-02		Resid rate (us/s)		2.40832E-07	+/- 1.9E-09
Total phase (deg)	-304.5		Apriori accel (us/s/s)		1.39498675203E-05		Resid phase (deg)		-26.4	+/- 15.0

ph/seg (deg) 72.2 35.9 Search (2048X32) 0.129 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 103.2 62.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.1 21.2 Inc. seg. avg. 0.177 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 58.1 37.0 Inc. frq. avg. 0.159 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/op..18P9EC Output file: /Exps/c201a/v1/1234/No0027/op.W.234.18P9EC



Fringe quality 7
SNR 19.5
Int time 434.187
Amp 0.342
Phase 74.2
PFD 0.0e+00
Delays (us)
SBD 0.000489
MBD -0.006435
Fringe rate (Hz) 0.005858
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120833
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

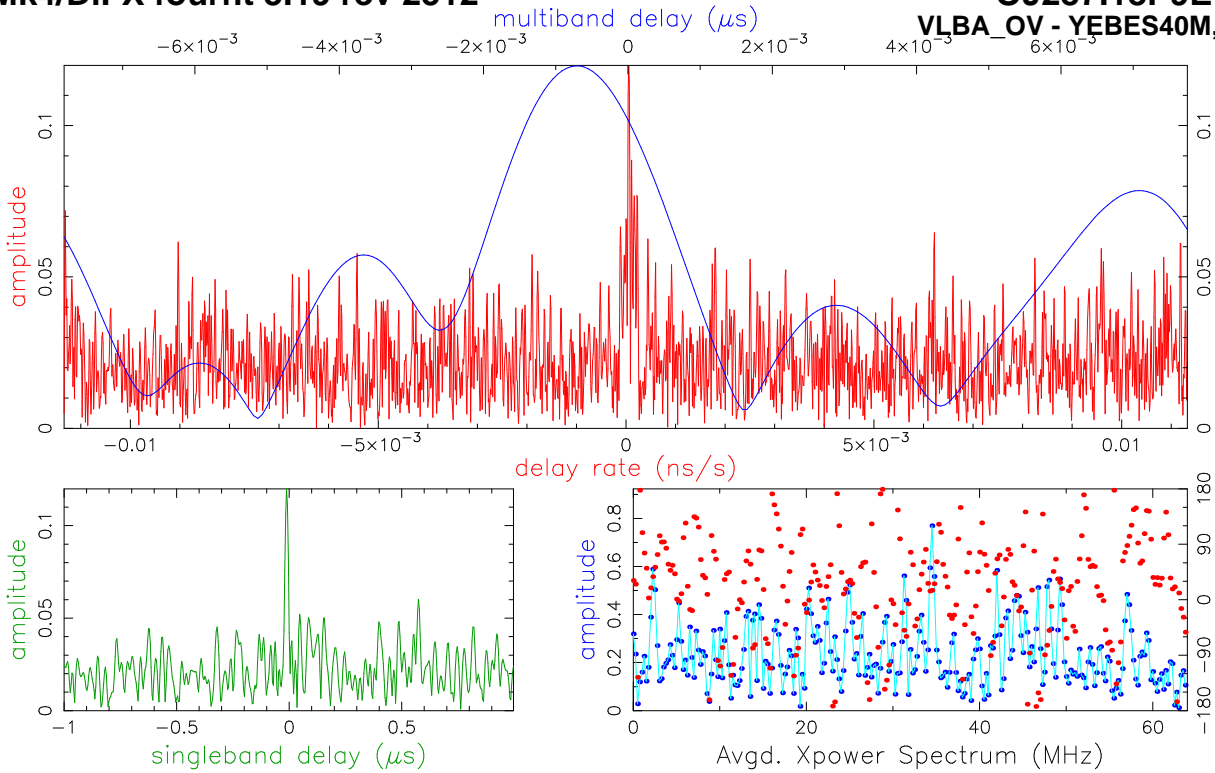


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	84.5	28.9	109.6	46.3	136.2	71.8	65.7	-39.1	Ampl.	74.2
o	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.1	Ampl.	0.4
Y	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.1
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd) 4.87417824332E+02 Apriori delay (usec) 4.87424259544E+02 Resid mbdelay (usec) -6.43521E-03 +/- 5.6E-05
Sband delay (usec) 4.87424748794E+02 Apriori clock (usec) 8.1096716E+00 Resid sbdelay (usec) 4.89250E-04 +/- 4.4E-04
Phase delay (usec) 4.87424261936E+02 Apriori clockrate (us/s) -1.8999993E-08 Resid phdelay (usec) 2.39196E-06 +/- 1.9E-07
Delay rate (us/s) 1.91735857915E+00 Apriori rate (us/s) 1.91735851114E+00 Resid rate (us/s) 6.80088E-08 +/- 7.6E-10
Total phase (deg) 332.3 Apriori accel (us/s/s) -4.27679134335E-06 Resid phase (deg) 74.2 +/- 5.9

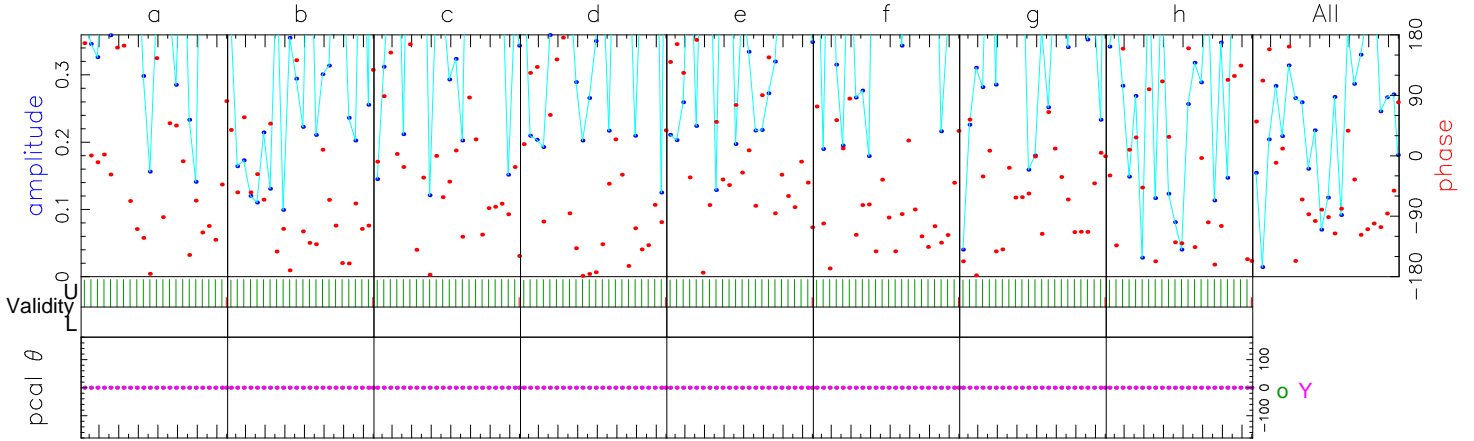
RMS Theor. Amplitude 0.342 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 66.0 14.1 Search (2048X32) 0.338 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 85.0 24.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 59.1 8.3 Inc. seg. avg. 0.577 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 46.2 14.5 Inc. frq. avg. 0.435 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 92.1 el 37.2 pa -57.9 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -11693.116 -430.488 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/oY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/oY.W.176.18P9EC



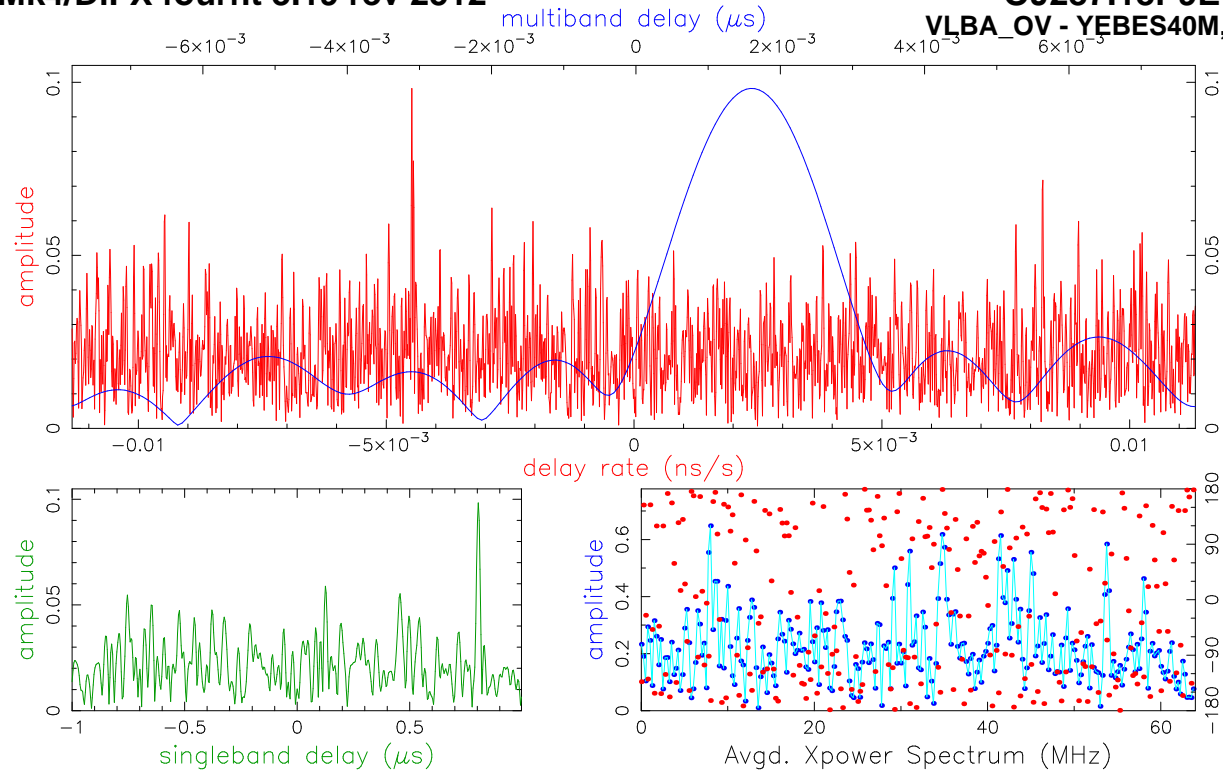
Fringe quality 0
SNR 6.8
Int time 434.187
Amp 0.120
Phase -87.2
PFD 2.5e-03
Delays (us)
SBD -0.011196
MBD -0.000706
Fringe rate (Hz) 0.005081
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120842
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



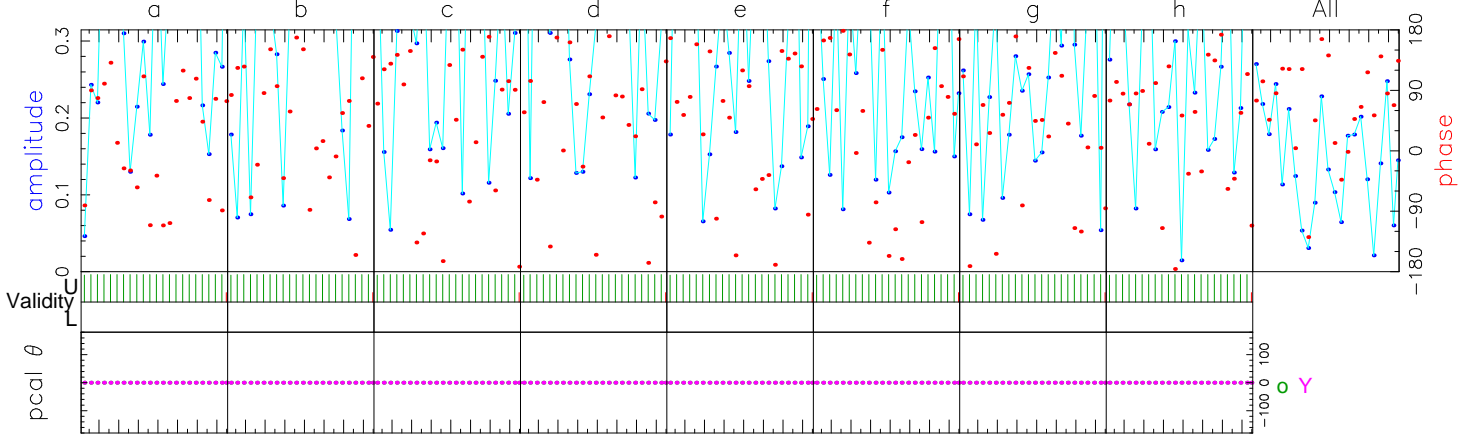
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-88.2	-119.2	-46.8	-126.0	-48.6	-105.4	-63.0	165.3	Phase	-87.2
	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	Ampl.	0.1
	394.3	252.9	339.2	61.1	254.0	253.2	253.7	415.7	Sbd box	254.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.87407928770E+02		Apriori delay (usec)		4.87424259544E+02		Resid mbdelay (usec)		-7.05774E-04	+/- 1.6E-04
Sband delay (usec)	4.87413064044E+02		Apriori clock (usec)		8.1096716E+00		Resid sbdelay (usec)		-1.11955E-02	+/- 1.3E-03
Phase delay (usec)	4.87424256731E+02		Apriori clockrate (us/s)		-1.8999993E-08		Resid phdelay (usec)		-2.81284E-06	+/- 5.4E-07
Delay rate (us/s)	1.91735857012E+00		Apriori rate (us/s)		1.91735851114E+00		Resid rate (us/s)		5.89874E-08	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.27679134335E-06		Resid phase (deg)		-87.2	+/- 16.8

ph/seg (deg) 74.1 40.2 Search (2048X32) 0.117 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 131.9 70.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 55.0 23.7 Inc. seg. avg. 0.191 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 45.7 41.4 Inc. frq. avg. 0.141 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
o: az 92.1 el 37.2 pa -57.9 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -11693.116 -430.488 simultaneous interpolator



Fringe quality 0
SNR 5.6
Int time 434.187
Amp 0.105
Phase 84.9
PFD 9.9e-01
Delays (us)
SBD 0.804756
MBD 0.001606
Fringe rate (Hz)
-0.387127
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120846
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

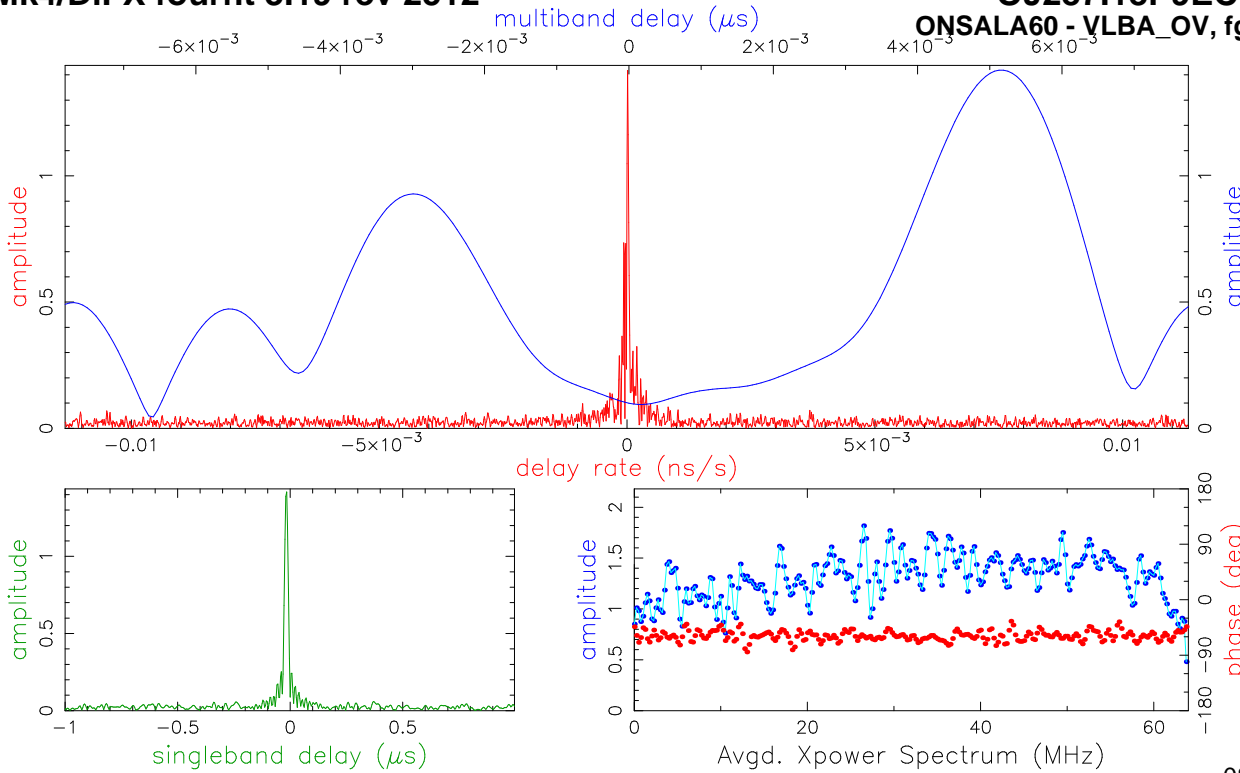


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	4.88222740922E+02	Apriori delay (usec)		4.87424259544E+02	Resid mbdelay (usec)		1.60638E-03	+/-	1.9E-04	
Sband delay (usec)	4.88229015294E+02	Apriori clock (usec)		8.1096716E+00	Resid sbdelay (usec)		8.04756E-01	+/-	1.5E-03	
Phase delay (usec)	4.87424262281E+02	Apriori clockrate (us/s)		-1.8999993E-08	Resid phdelay (usec)		2.73722E-06	+/-	6.6E-07	
Delay rate (us/s)	1.91735401698E+00	Apriori rate (us/s)		1.91735851114E+00	Resid rate (us/s)		-4.49416E-06	+/-	2.6E-09	
Total phase (deg)	343.1		Apriori accel (us/s/s)		-4.27679134335E-06	Resid phase (deg)		84.9	+/-	20.5

ph/seg (deg)	60.9	RMS	60.9	Theor.	49.1	Amplitude	0.105 +/- 0.019	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	88.0	60.9	49.1	Search (2048X32)	0.096	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	15.1	88.0	85.7	Inc. seg. avg.	0.114	Inc. frq. avg.	0.095	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	10.5	15.1	28.9	Inc. seg. avg.	0.114	Inc. frq. avg.	0.095	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011	
		10.5	50.5	Inc. frq. avg.	0.095			Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 92.1 el 37.2 pa -57.9 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -11693.116 -430.488 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/oY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/oY.W.229.18P9EC

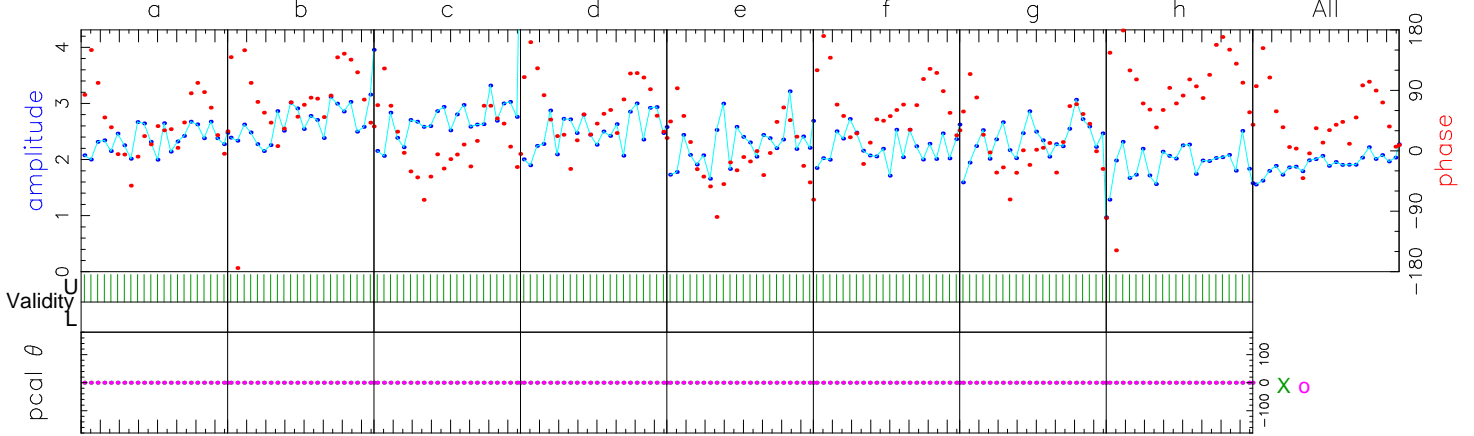


Fringe quality 3

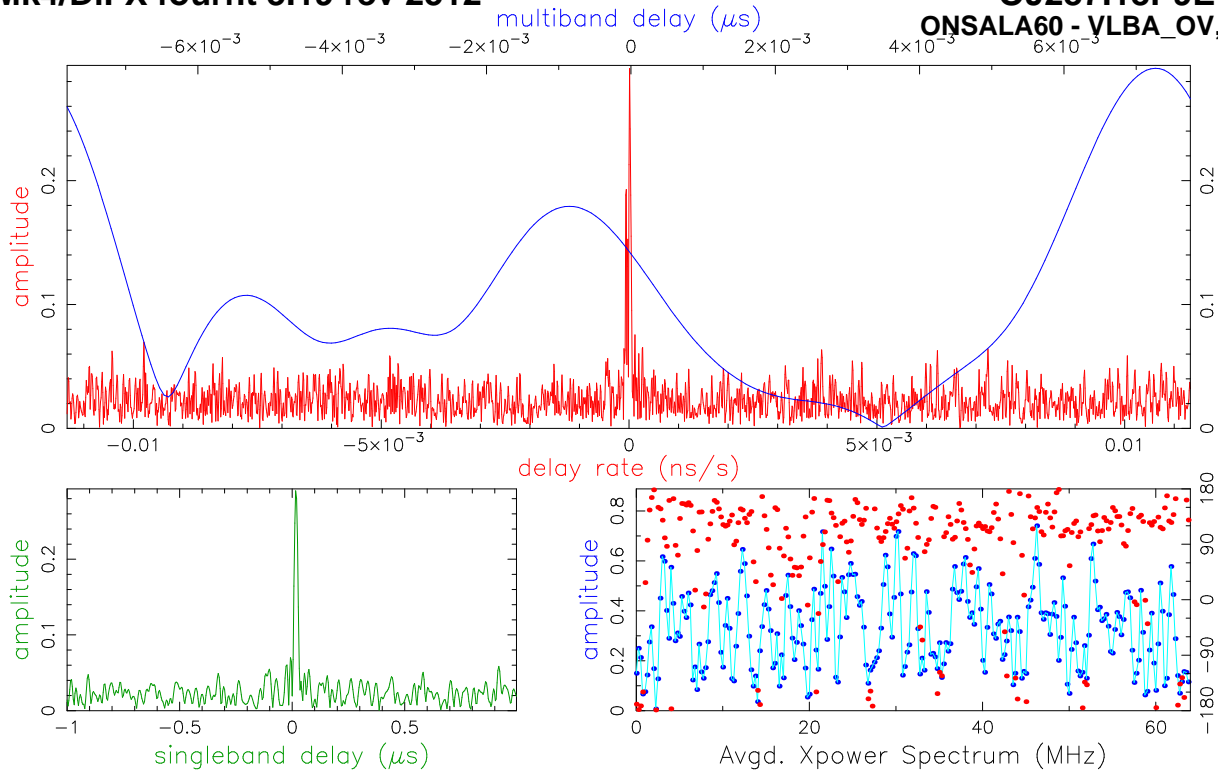
SNR 82.4
Int time 439.618
Amp 1.438
Phase 44.7
PFD 0.0e+00
Delays (us)
SBD -0.017135
MBD 0.005105
Fringe rate (Hz) 0.000848
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120839
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

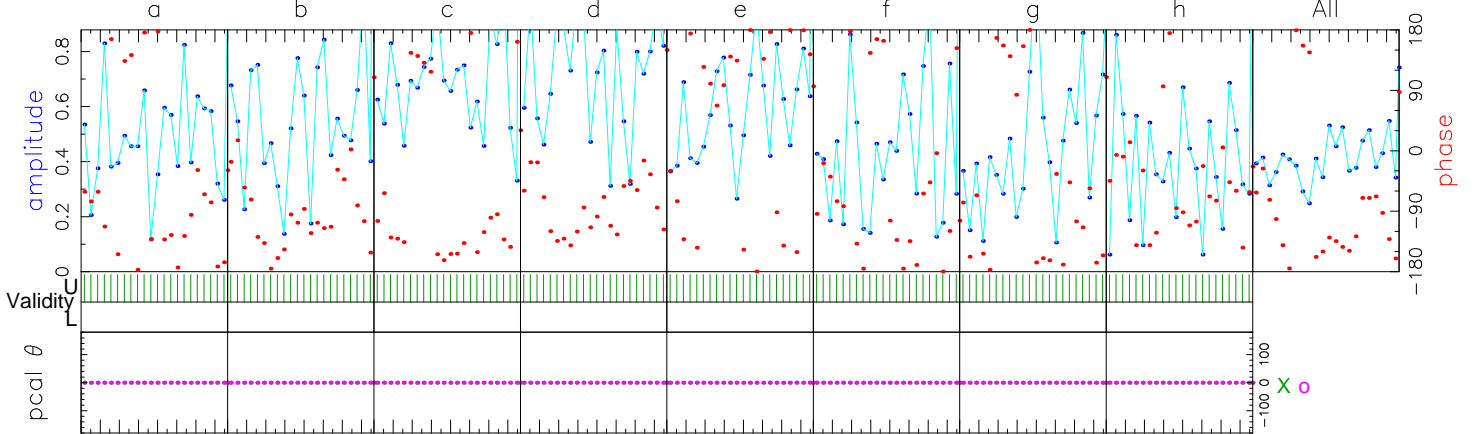


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.94391477640E+03				-3.94390425614E+03				5.10475E-03	+/- 1.3E-05
Sband delay (usec)	-3.94392139139E+03				2.0640663E+01				-1.71352E-02	+/- 1.0E-04
Phase delay (usec)	-3.94390425470E+03				3.2700001E-07				1.44186E-06	+/- 4.5E-08
Delay rate (us/s)	-1.72605598747E+00				-1.72605599732E+00				9.84824E-09	+/- 1.8E-10
Total phase (deg)			-179.9		3.02627619714E-05				44.7	+/- 1.4
	RMS	Theor.	Amplitude	1.438 +/- 0.017	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	45.1	3.3	Search (2048X32)	1.389	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	34.7	5.8	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	42.8	2.0	Inc. seg. avg.	1.910	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	24.5	3.4	Inc. frq. avg.	1.748	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
X: az 266.5 el 26.2 pa 35.0			o: az 92.1 el 37.2 pa -57.9		u,v (fr/asec) 10567.831 2786.709					simultaneous interpolator



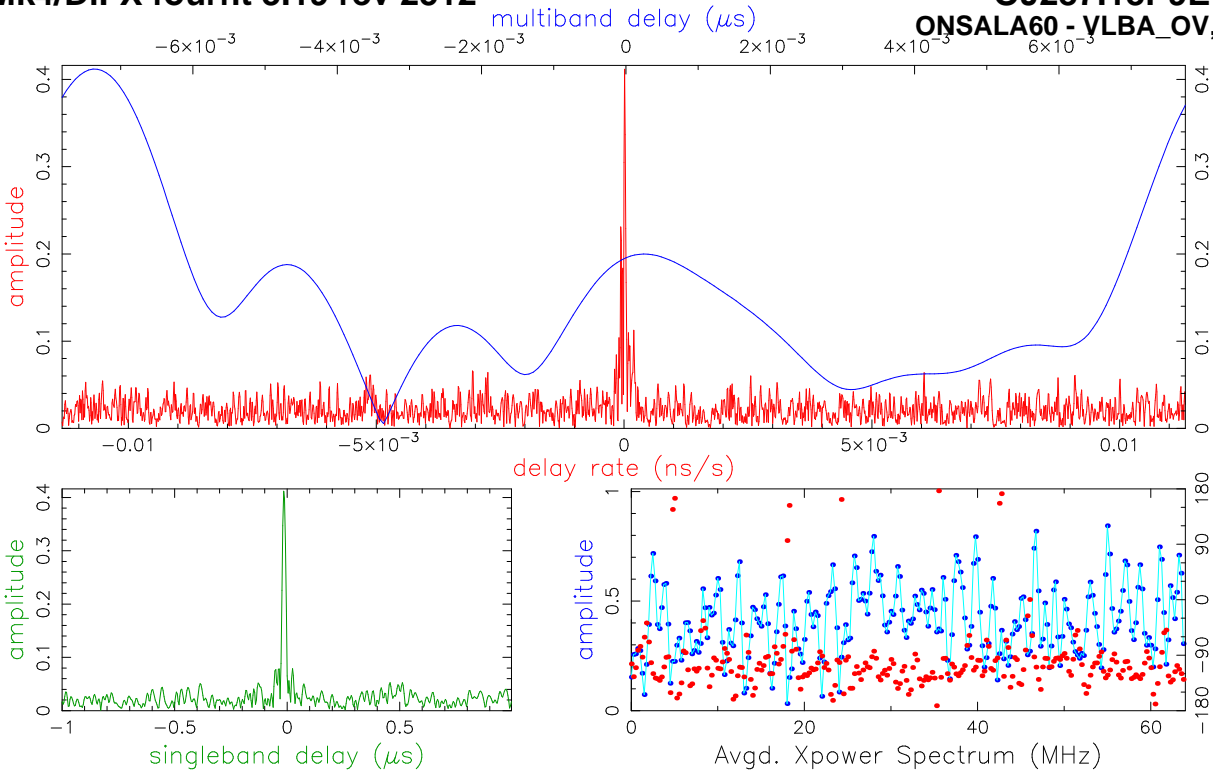
Fringe quality 7
 SNR 16.8
 Int time 439.618
 Amp 0.293
 Phase -123.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.016820
 MBD 0.007306
 Fringe rate (Hz) 0.000680
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120844
 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
	-130.2	-92.5	-149.1	-86.3	174.0	-124.0	-151.5	-76.8	Phase	-123.6
	0.3	0.4	0.5	0.6	0.3	0.3	0.3	0.2	Ampl.	0.3
	261.2	261.6	261.5	261.5	262.2	261.7	261.8	262.6	Sbd box	261.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.94388132533E+03		Apriori delay (usec)		-3.94390425614E+03		Resid mbdelay (usec)		7.30581E-03	+/- 6.5E-05
Sband delay (usec)	-3.94388743589E+03		Apriori clock (usec)		2.0640663E+01		Resid sbdelay (usec)		1.68203E-02	+/- 5.1E-04
Phase delay (usec)	-3.94390426012E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-3.98437E-06	+/- 2.2E-07
Delay rate (us/s)	-1.72605598942E+00		Apriori rate (us/s)		-1.72605599732E+00		Resid rate (us/s)		7.89546E-09	+/- 8.7E-10
Total phase (deg)			Apriori accel (us/s/s)		3.02627619714E-05		Resid phase (deg)		-123.6	+/- 6.8

ph/seg (deg) 48.5 16.4 Search (2048X32) 0.285 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 47.1 28.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.6 9.6 Inc. seg. avg. 0.391 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.5 16.8 Inc. frq. avg. 0.349 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 266.5 el 26.2 pa 35.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 10567.831 2786.709 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Xo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Xo.W.222.18P9EC

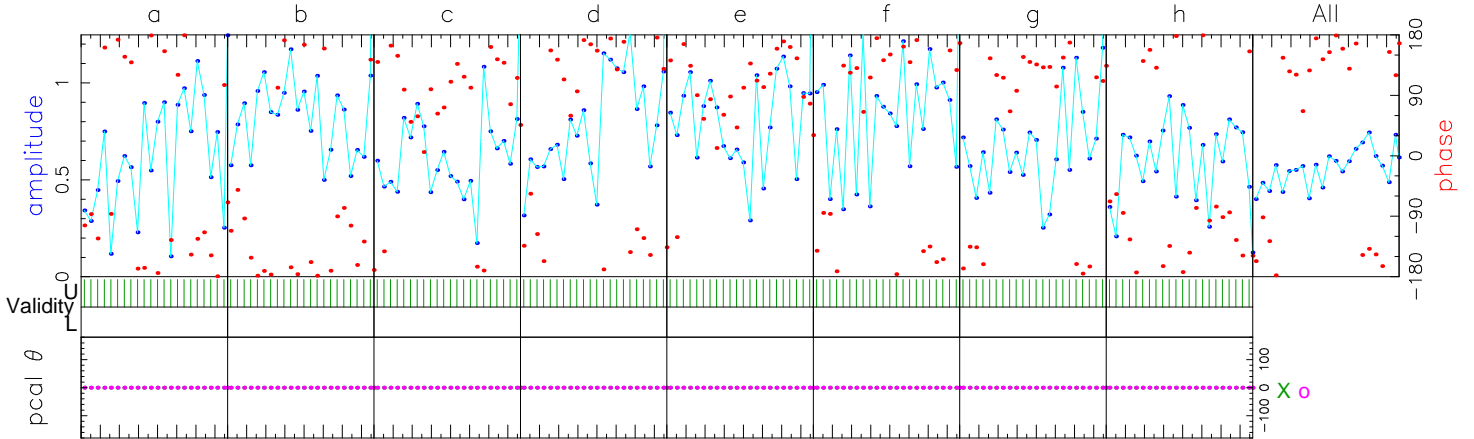


Fringe quality 8

SNR 23.9
Int time 439.618
Amp 0.416
Phase 168.0
PFD 0.0e+00
Delays (us)
SBD -0.014328
MBD -0.007315
Fringe rate (Hz) 0.000853
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

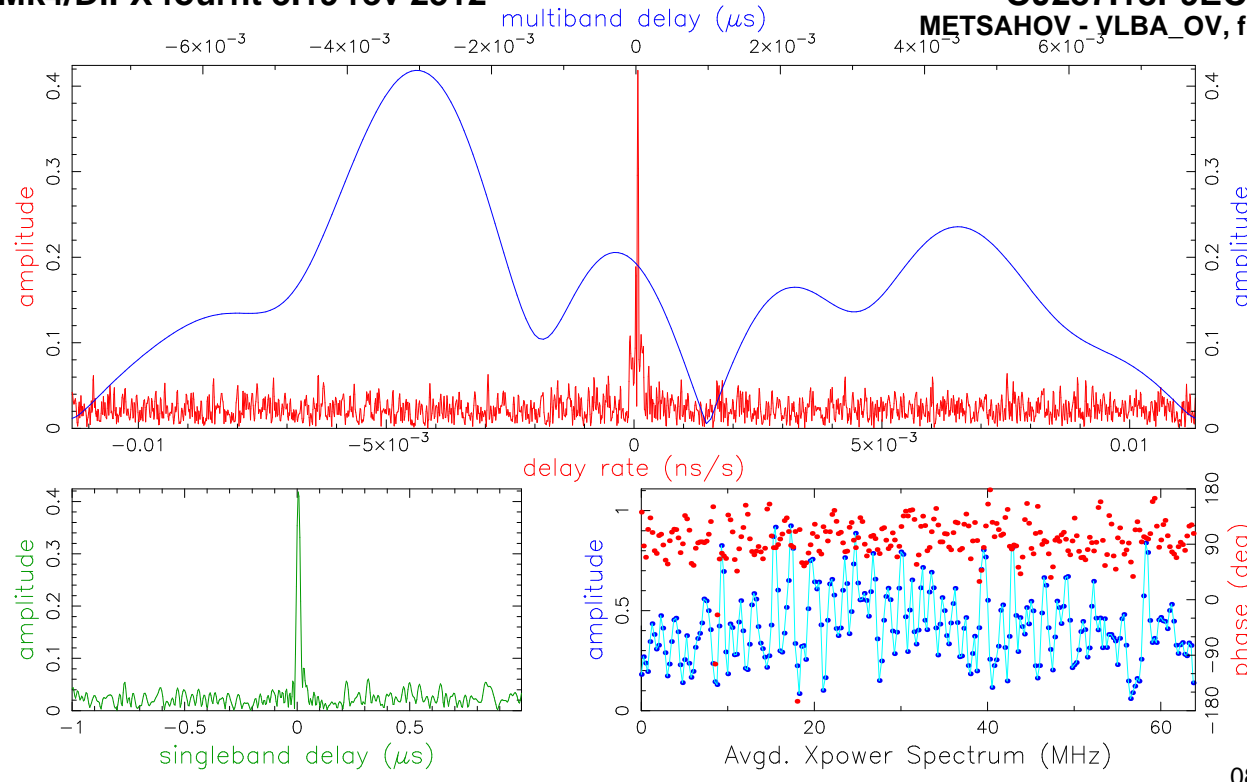
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120848
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-170.9	-160.1	114.8	177.2	113.6	173.2	148.8	-140.9	Phase	168.0
	0.5	0.6	0.4	0.5	0.5	0.6	0.5	0.4	Ampl.	0.5
	253.0	253.5	254.0	254.2	254.5	253.4	253.9	255.2	Sbd box	253.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.94391157068E+03		Apriori delay (usec)		-3.94390425614E+03		Resid mbdelay (usec)		-7.31454E-03	+/- 4.5E-05
Sband delay (usec)	-3.94391858414E+03		Apriori clock (usec)		2.0640663E+01		Resid sbdelay (usec)		-1.43280E-02	+/- 3.6E-04
Phase delay (usec)	-3.94390425072E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		5.41679E-06	+/- 1.5E-07
Delay rate (us/s)	-1.72605598742E+00		Apriori rate (us/s)		-1.72605599732E+00		Resid rate (us/s)		9.90209E-09	+/- 6.1E-10
Total phase (deg)			Apriori accel (us/s/s)		3.02627619714E-05		Resid phase (deg)		168.0	+/- 4.8

ph/seg (deg) 45.2 11.5 Search (2048X32) 0.410 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 41.7 20.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.5 6.8 Inc. seg. avg. 0.549 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 24.5 11.9 Inc. frq. avg. 0.496 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_coherence infinite dr window (ns/s) -0.011 0.011
X: az 266.5 el 26.2 pa 35.0 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 10567.831 2786.709 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Xo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Xo.W.236.18P9EC

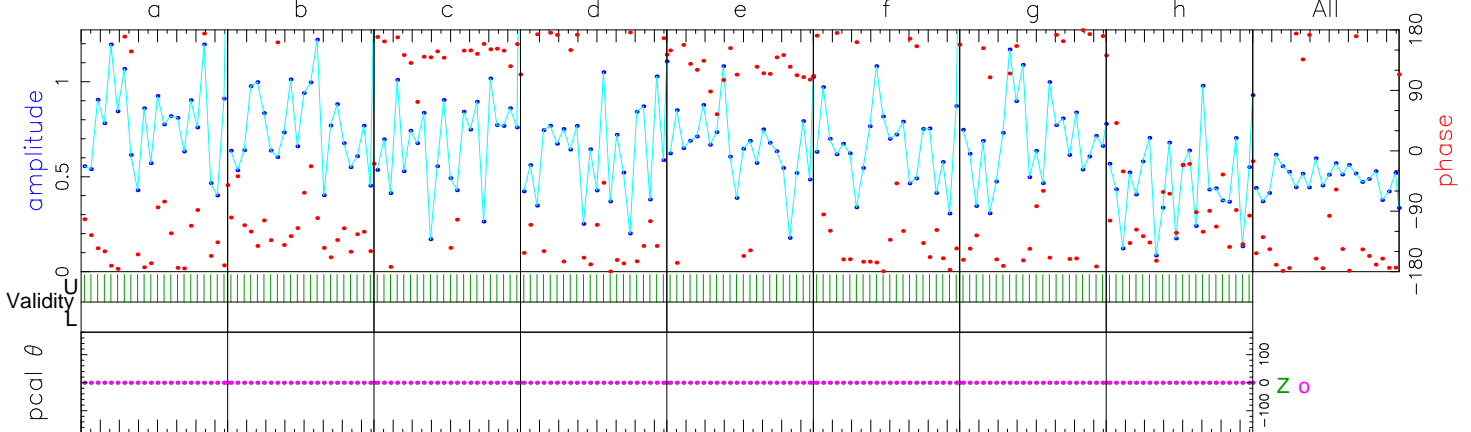


Fringe quality 7

SNR 24.3
 Int time 439.226
 Amp 0.424
 Phase -163.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.005441
 MBD -0.003001
 Fringe rate (Hz)
 0.007081
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120848
 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

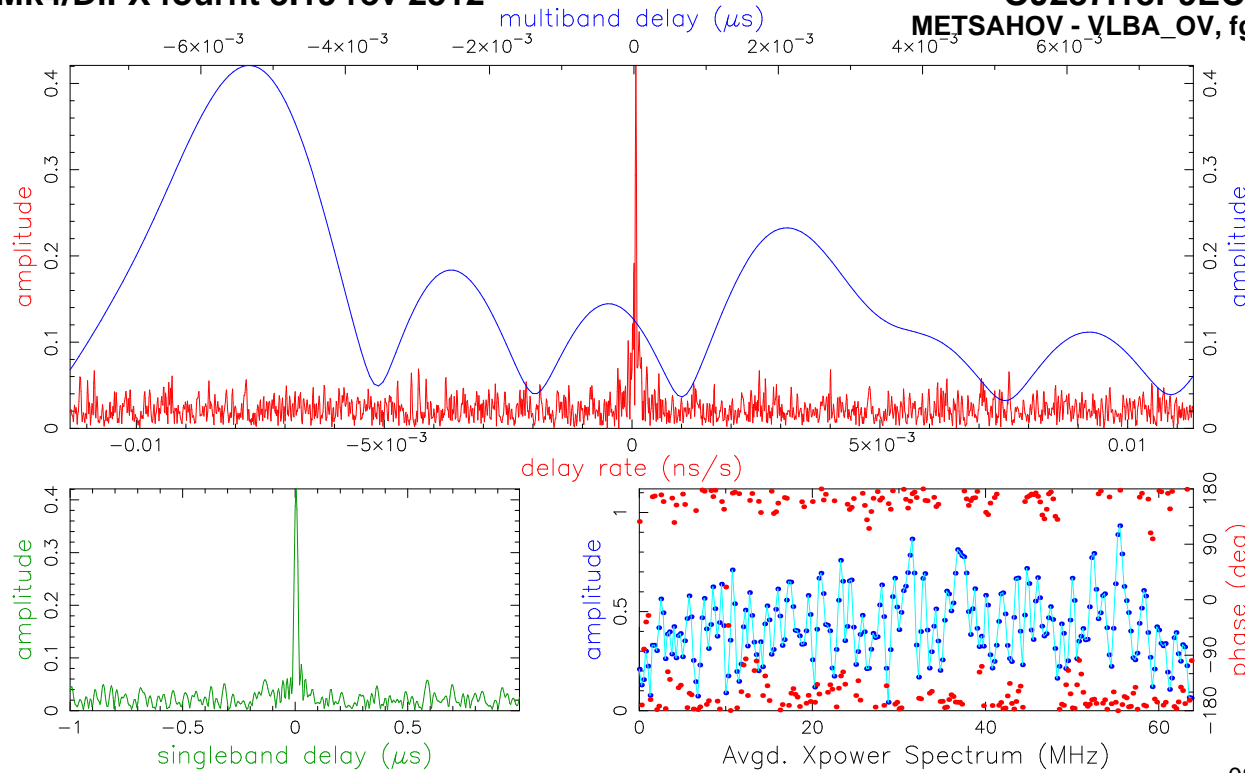


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd) -6.16470566359E+03 Apriori delay (usec) -6.16471828777E+03 Resid mbdelay (usec) -3.00081E-03 +/- 4.5E-05
 Sband delay (usec) -6.16471284627E+03 Apriori clock (usec) -2.0185204E+01 Resid sbdelay (usec) 5.44150E-03 +/- 3.5E-04
 Phase delay (usec) -6.16471829304E+03 Apriori clockrate (us/s) -1.8500001E-07 Resid phdelay (usec) -5.26657E-06 +/- 1.5E-07
 Delay rate (us/s) -1.69517575281E+00 Apriori rate (us/s) -1.69517583501E+00 Resid rate (us/s) 8.22069E-08 +/- 6.0E-10
 Total phase (deg) -274.5 Apriori accel (us/s/s) 4.28437932318E-05 Resid phase (deg) -163.3 +/- 4.7

ph/seg (deg) 33.4 11.3 Amplitude 0.424 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 22.5 19.7 Search (2048X32) 0.392 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.0 6.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.3 11.6 Inc. seg. avg. 0.484 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.531 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 275.9 el 19.8 pa 31.7 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 10400.166 3361.131 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Zo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Zo.W.237.18P9EC

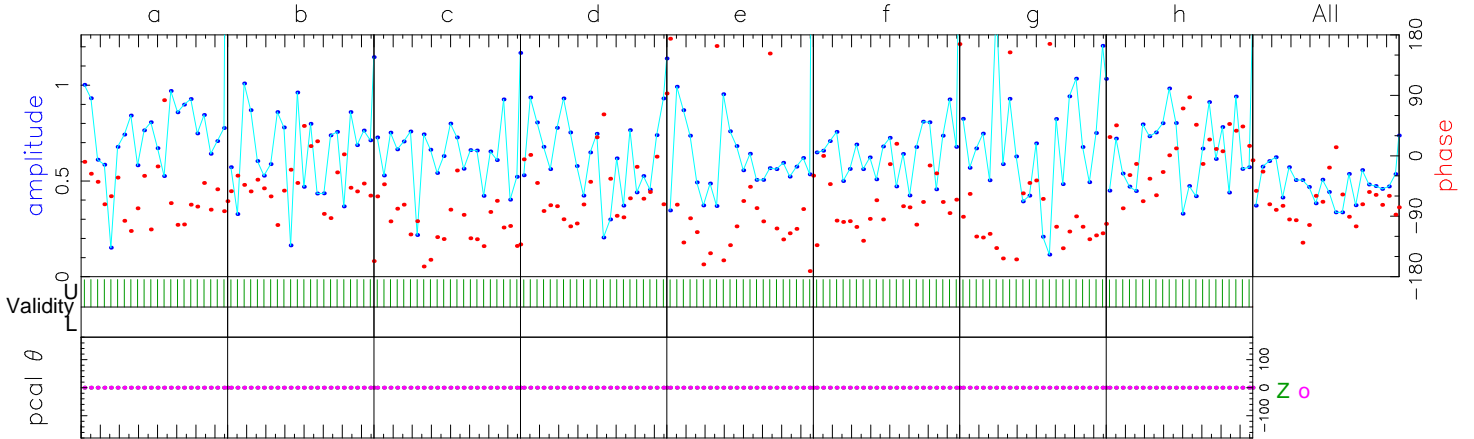


Fringe quality 7

SNR 24.1
Int time 439.226
Amp 0.421
Phase -71.5
PFD 0.0e+00
Delays (us)
SBD 0.003761
MBD -0.005336
Fringe rate (Hz) 0.007076
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

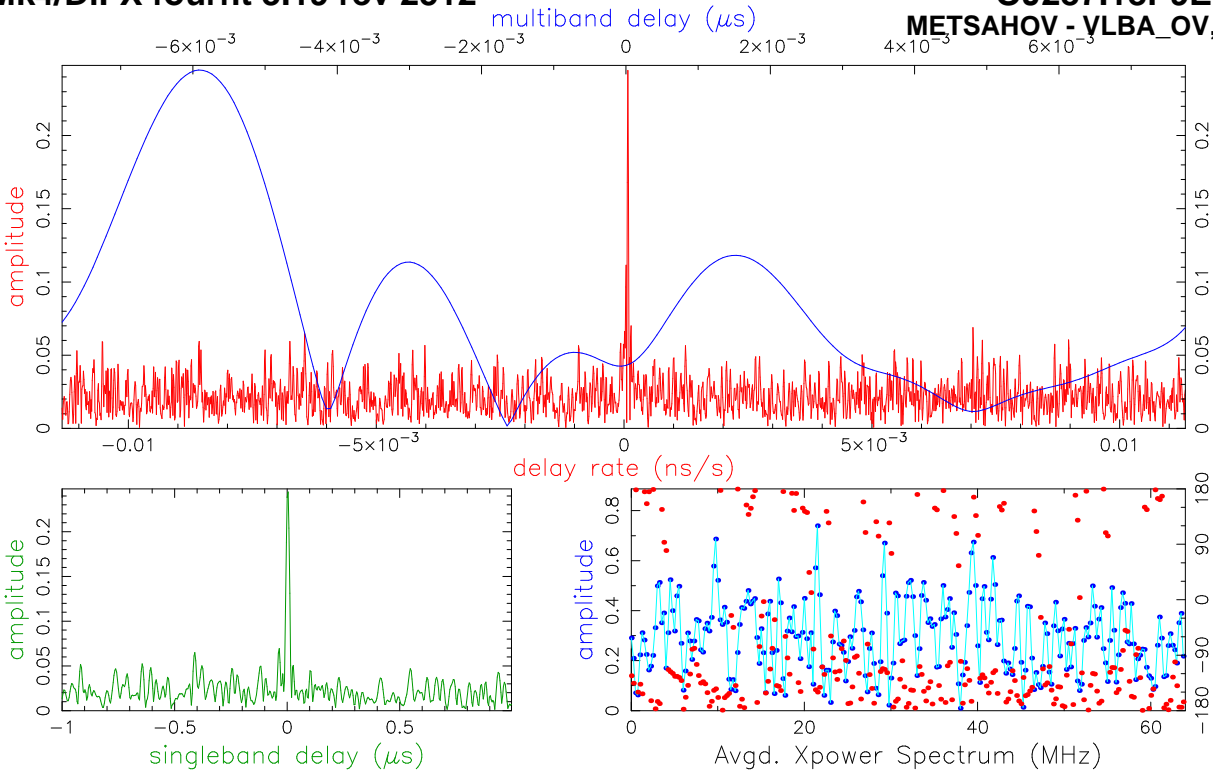
Exp. c201a
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120851
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-64.1	-44.5	-99.9	-55.0	-116.5	-72.2	-113.4	4.5	Phase	-71.5
	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	Ampl.	0.5
	258.1	257.9	258.0	258.3	259.1	258.2	258.9	259.2	Sbd box	258.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.16470799881E+03		Apriori delay (usec)		-6.16471828777E+03		Resid mbdelay (usec)		-5.33603E-03	+/- 4.5E-05
Sband delay (usec)	-6.16471452702E+03		Apriori clock (usec)		-2.0185204E+01		Resid sbdelay (usec)		3.76075E-03	+/- 3.6E-04
Phase delay (usec)	-6.16471829008E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-2.30608E-06	+/- 1.5E-07
Delay rate (us/s)	-1.69517575287E+00		Apriori rate (us/s)		-1.69517583501E+00		Resid rate (us/s)		8.21424E-08	+/- 6.0E-10
Total phase (deg)			Apriori accel (us/s/s)		4.28437932318E-05		Resid phase (deg)		-71.5	+/- 4.7

ph/seg (deg) 30.9 11.4 Search (2048X32) 0.396 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 23.9 19.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.6 6.7 Inc. seg. avg. 0.470 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.5 11.7 Inc. frq. avg. 0.518 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 275.9 el 19.8 pa 31.7 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 10400.166 3361.131 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Zo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Zo.W.247.18P9EC

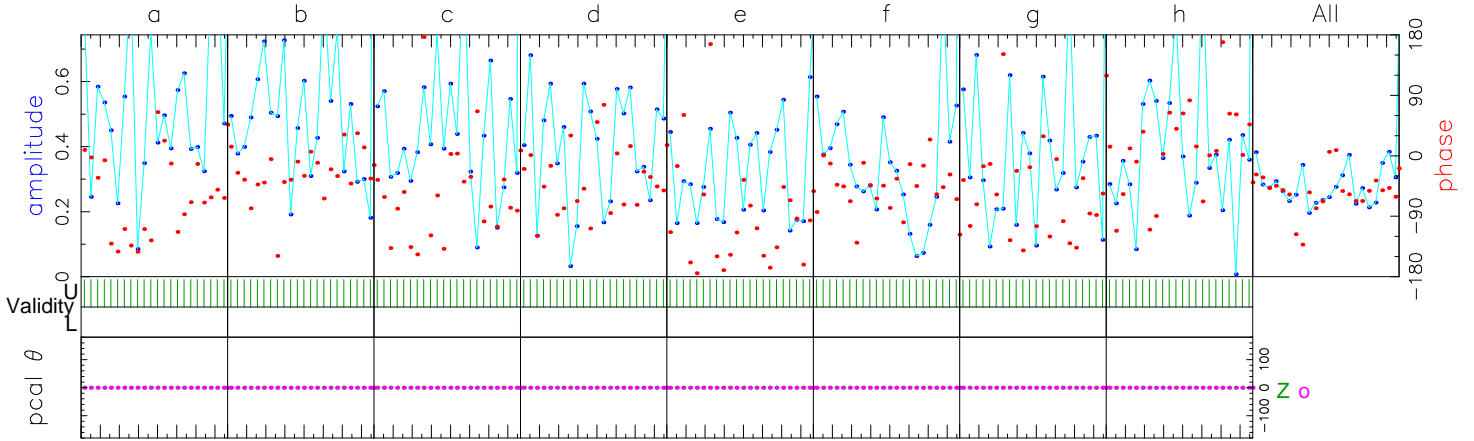


Fringe quality 8

SNR 14.2
 Int time 439.226
 Amp 0.248
 Phase -53.2
 PFD 4.8e-37
 Delays (us)
 SBD 0.002443
 MBD -0.005954
 Fringe rate (Hz) 0.007019
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120855
 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

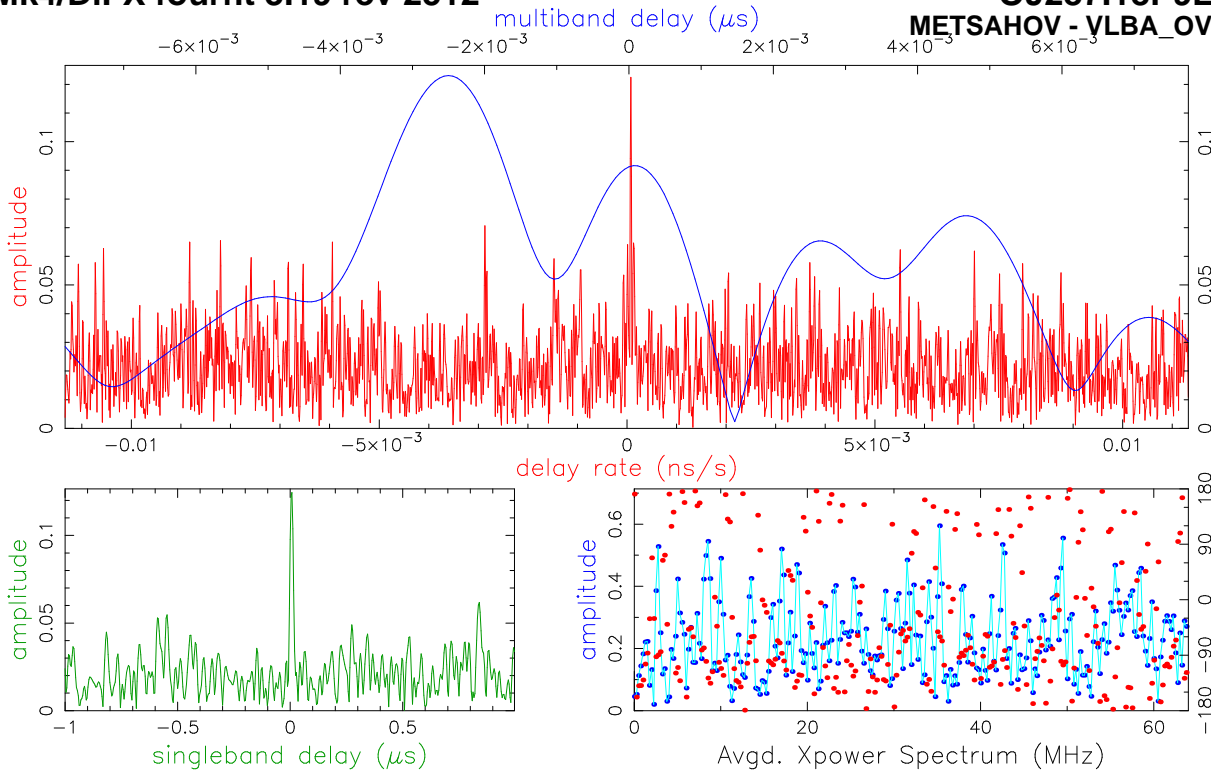


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-65.1	-29.4	-70.3	-36.9	-116.8	-48.7	-80.2	2.9	Phase	-53.2
	0.3	0.4	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.3
	257.9	257.2	257.8	257.7	258.0	258.0	258.9	259.9	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.16470861681E+03		Apriori delay (usec)		-6.16471828777E+03		Resid mbdelay (usec)		-5.95403E-03	+/- 7.6E-05
Sband delay (usec)	-6.16471584502E+03		Apriori clock (usec)		-2.0185204E+01		Resid sbdelay (usec)		2.44275E-03	+/- 6.1E-04
Phase delay (usec)	-6.16471828949E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-1.71648E-06	+/- 2.6E-07
Delay rate (us/s)	-1.69517575353E+00		Apriori rate (us/s)		-1.69517583501E+00		Resid rate (us/s)		8.14862E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		4.28437932318E-05		Resid phase (deg)		-53.2	+/- 8.1

ph/seg (deg) 30.4 19.3 Search (2048X32) 0.233 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 27.0 33.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.2 11.4 Inc. seg. avg. 0.266 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.9 19.9 Inc. frq. avg. 0.276 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 275.9 el 19.8 pa 31.7 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 10400.166 3361.131 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Zo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Zo.W.253.18P9EC

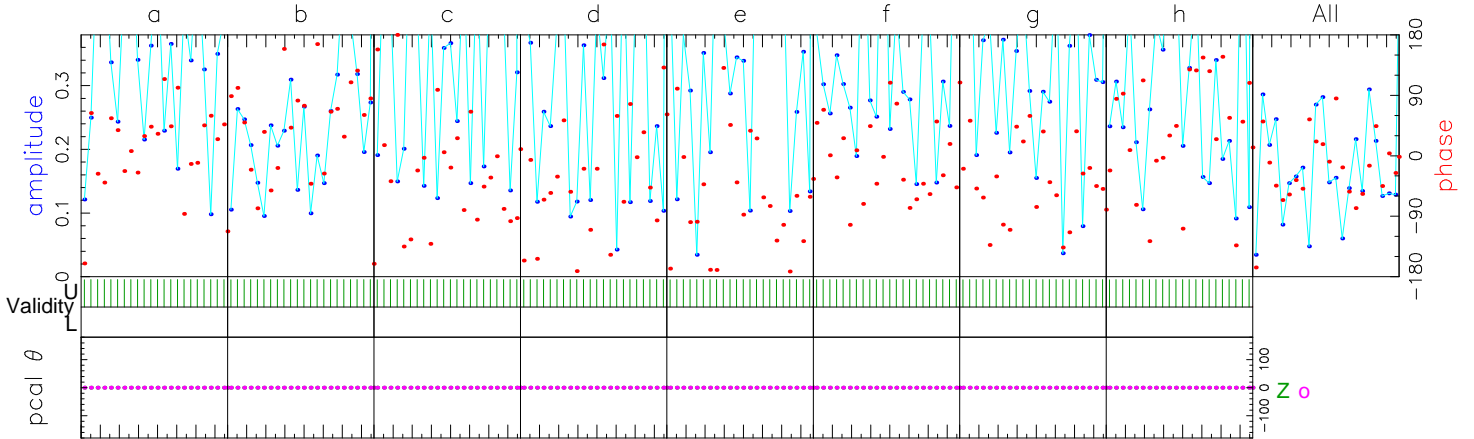
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Zo
 METSAHOV - VLBA_OV, fgroup W, pol RL



Fringe quality 0
 SNR 7.3
 Int time 439.226
 Amp 0.127
 Phase -12.4
 PFD 1.2e-04
 Delays (us)
 SBD 0.006192
 MBD -0.002399
 Fringe rate (Hz)
 0.006909
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120858
 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	63.3	-52.1	-36.4	-91.4	-15.8	-25.5	50.7	Phase	-12.4
	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.2
	257.4	259.4	258.6	114.1	237.8	258.9	259.9	261.5	Sbd box	258.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.16470506134E+03		Apriori delay (usec)		-6.16471828777E+03		Resid mbdelay (usec)		-2.39856E-03	+/- 1.5E-04
Sband delay (usec)	-6.16471209602E+03		Apriori clock (usec)		-2.0185204E+01		Resid sbdelay (usec)		6.19175E-03	+/- 1.2E-03
Phase delay (usec)	-6.16471828818E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-4.01344E-07	+/- 5.1E-07
Delay rate (us/s)	-1.69517575480E+00		Apriori rate (us/s)		-1.69517583501E+00		Resid rate (us/s)		8.02108E-08	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		4.28437932318E-05		Resid phase (deg)		-12.4	+/- 15.8

ph/seg (deg) 53.9 37.9 Search (2048X32) 0.121 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.2 66.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.1 22.3 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.1 39.0 Inc. frq. avg. 0.157 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 275.9 el 19.8 pa 31.7 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 10400.166 3361.131 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Zo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Zo.W.259.18P9EC