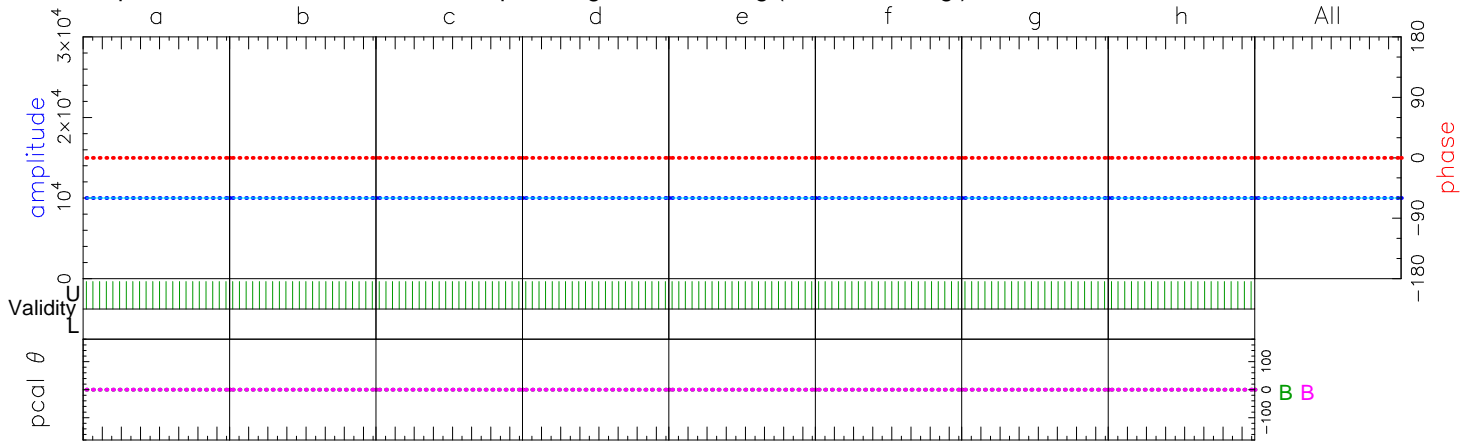


Fringe quality 9

SNR 573445.9
Int time 439.734
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
2020:197:120752
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

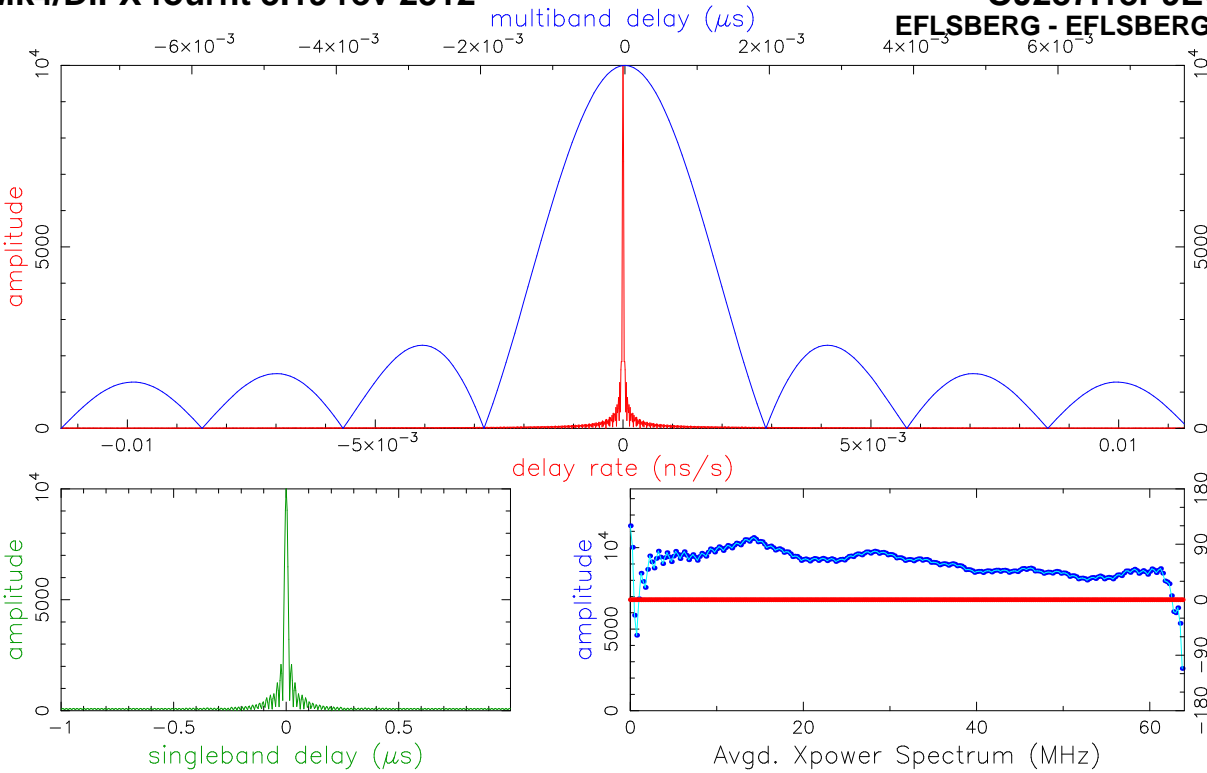


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00								Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.0000000000E+00								Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	-7.03588032038E-21								Resid phdelay (usec)	-7.03588E-21 +/- 6.4E-12
Delay rate (us/s)	0.0000000000E+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

B: az 265.9 el 29.7 pa 42.5 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BB..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BB.W.15.18P9EC

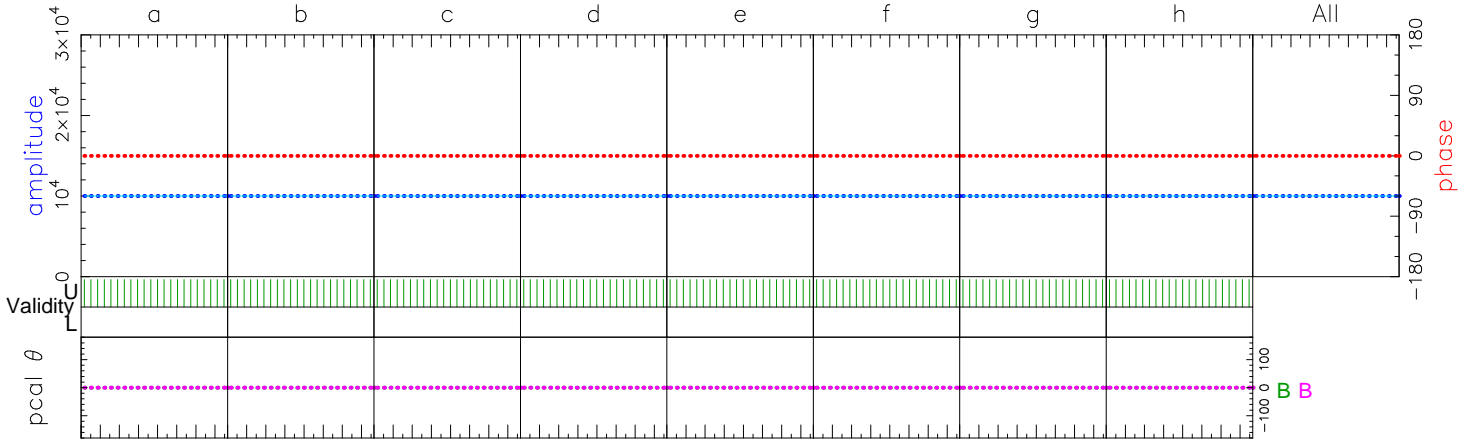


Fringe quality 9

SNR 573445.9
Int time 439.734
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
2020:197:120749
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

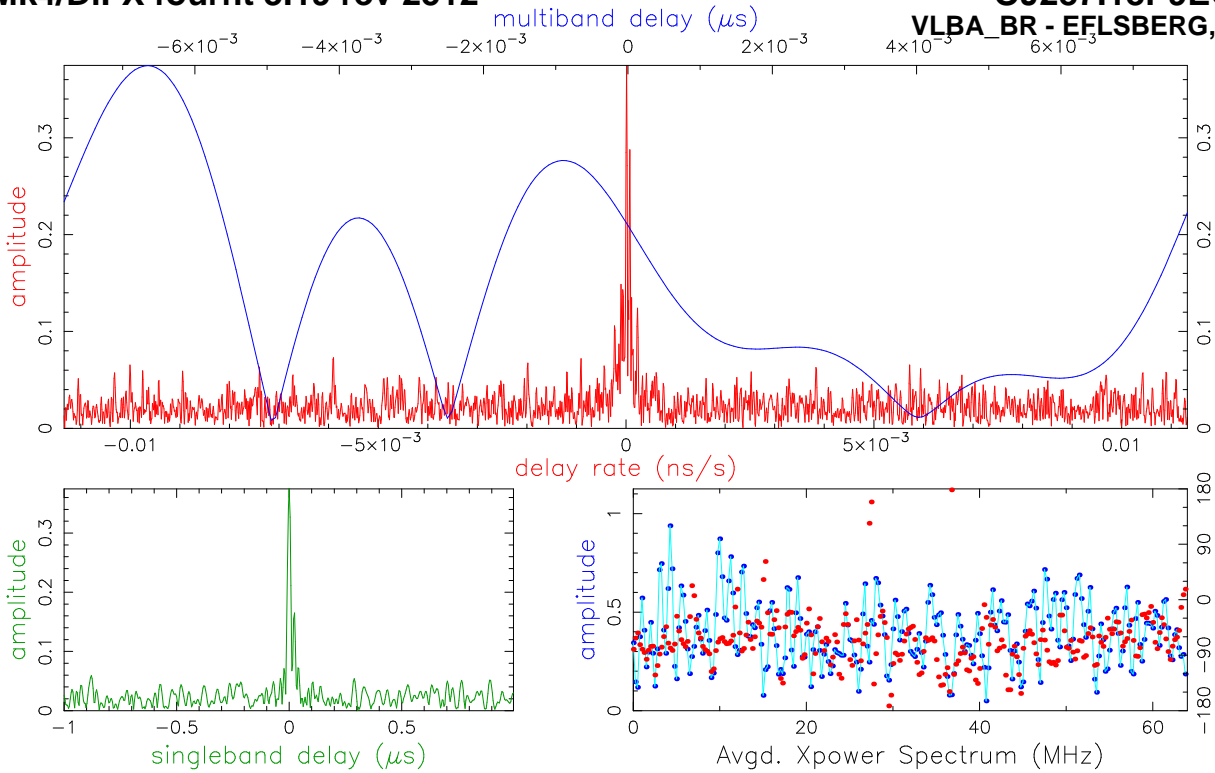
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

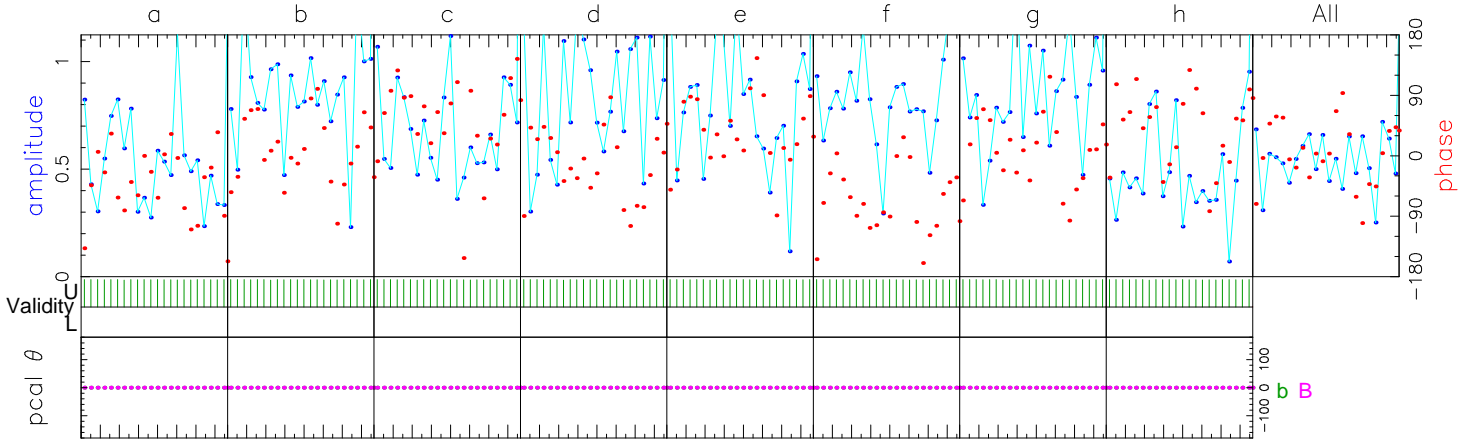
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-9.86665601857E-22	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.86666E-22	+/-	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 10000.001 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 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
 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
 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



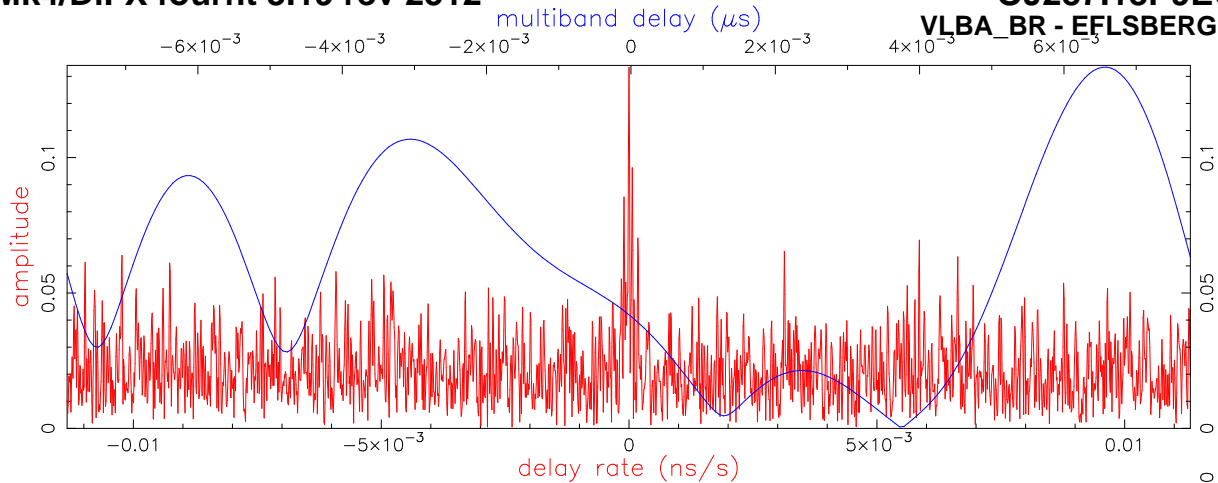
Fringe quality 7
SNR 21.4
Int time 436.666
Amp 0.375
Phase 4.5
PFD 0.0e+00
Delays (us)
SBD -0.000324
MBD -0.006672
Fringe rate (Hz) 0.000643
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120755
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



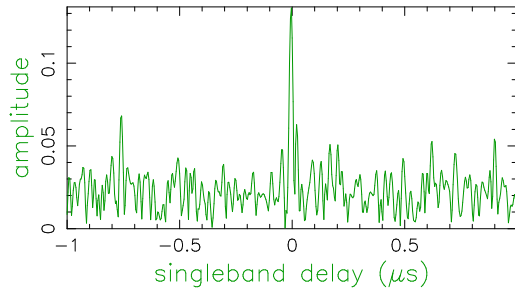
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-40.1	18.7	68.4	-20.2	36.2	-62.0	-0.1	51.1		4.5
	0.4	0.6	0.5	0.6	0.5	0.6	0.6	0.3		0.5
	260.4	257.9	256.4	256.1	256.1	256.3	257.1	261.8		256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
B	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
b	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	2.18094877306E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		-6.67225E-03	+/- 5.1E-05
Sband delay (usec)	2.18095512107E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-3.24250E-04	+/- 4.0E-04
Phase delay (usec)	2.18095544546E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		1.45116E-07	+/- 1.7E-07
Delay rate (us/s)	1.69116744389E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		7.46465E-09	+/- 6.8E-10
Total phase (deg)	25.9		Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		4.5	+/- 5.4

ph/seg (deg) 47.8 12.8 Search (2048X32) 0.375 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.3 22.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.2 7.6 Inc. seg. avg. 0.526 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.8 13.2 Inc. frq. avg. 0.489 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 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bB..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bB.W.24.18P9EC

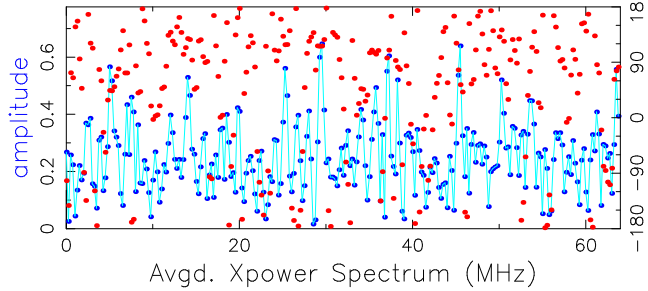


Fringe quality 9

SNR 7.7
 Int time 436.666
 Amp 0.134
 Phase -22.4
 PFD 6.1e-06
 Delays (us)
 SBD -0.004821
 MBD 0.006527
 Fringe rate (Hz)
 0.000457
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

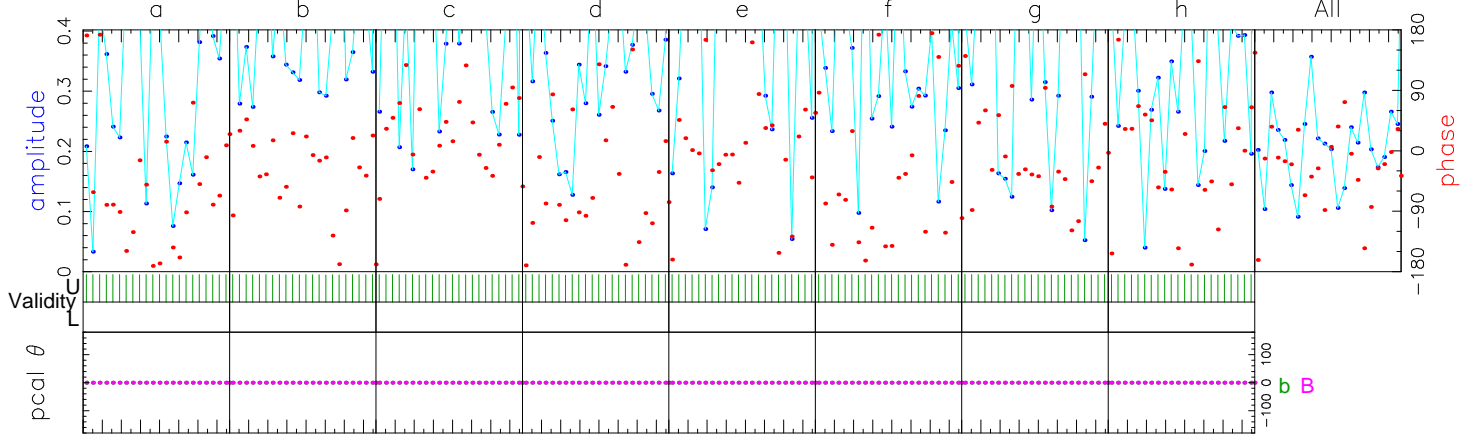


delay rate (ns/s)



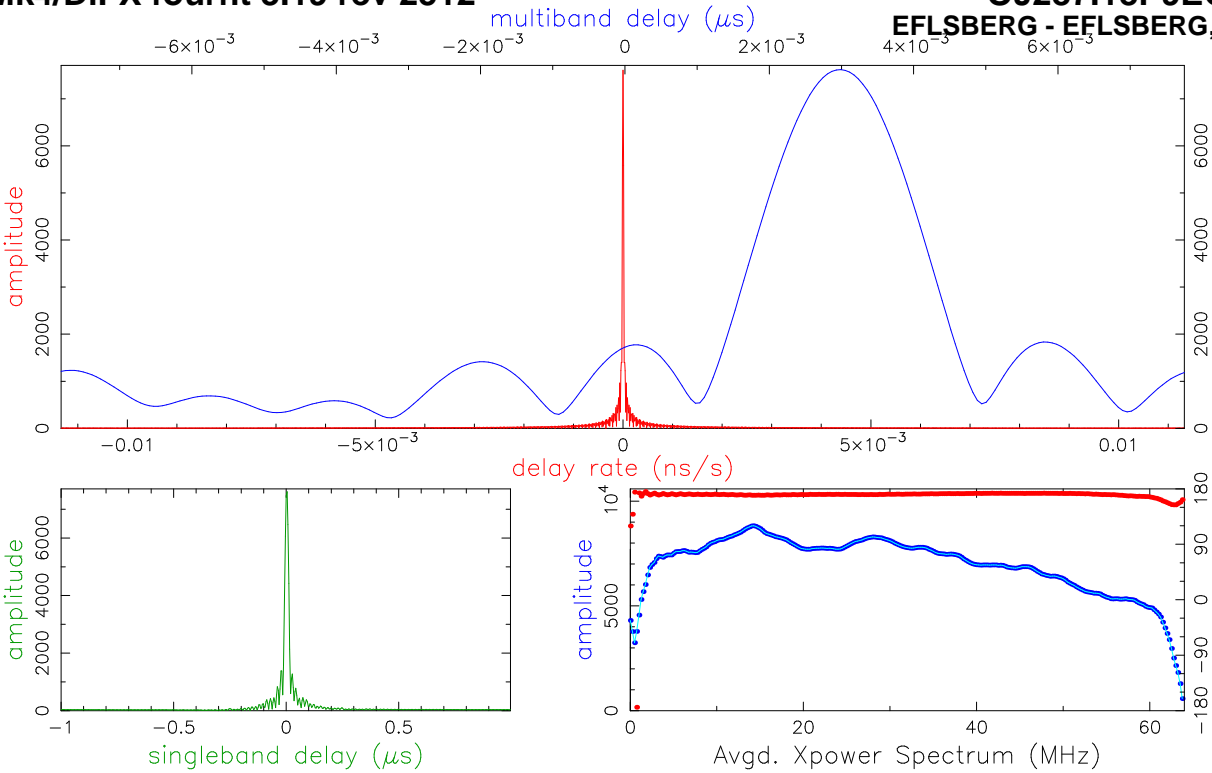
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120749
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-88.4	-31.2	33.8	-78.7	7.1	-106.2	-26.7	-11.0	Phase	-22.4
	0.1	0.2	0.3	0.1	0.2	0.1	0.2	0.1	Ampl.	0.2
	259.8	256.3	255.9	280.4	255.6	52.9	256.0	300.4	Sbd box	255.8
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	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.18094634757E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		6.52725E-03	+/- 1.4E-04
Sband delay (usec)	2.18095062382E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-4.82150E-03	+/- 1.1E-03
Phase delay (usec)	2.18095544459E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-7.22049E-07	+/- 4.8E-07
Delay rate (us/s)	1.69116744173E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		5.30851E-09	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		-22.4	+/- 15.0

ph/seg (deg) 55.9 35.9 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.7 62.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.0 21.2 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 64.9 36.9 Inc. frq. avg. 0.172 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 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bB..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bB.W.3.18P9EC

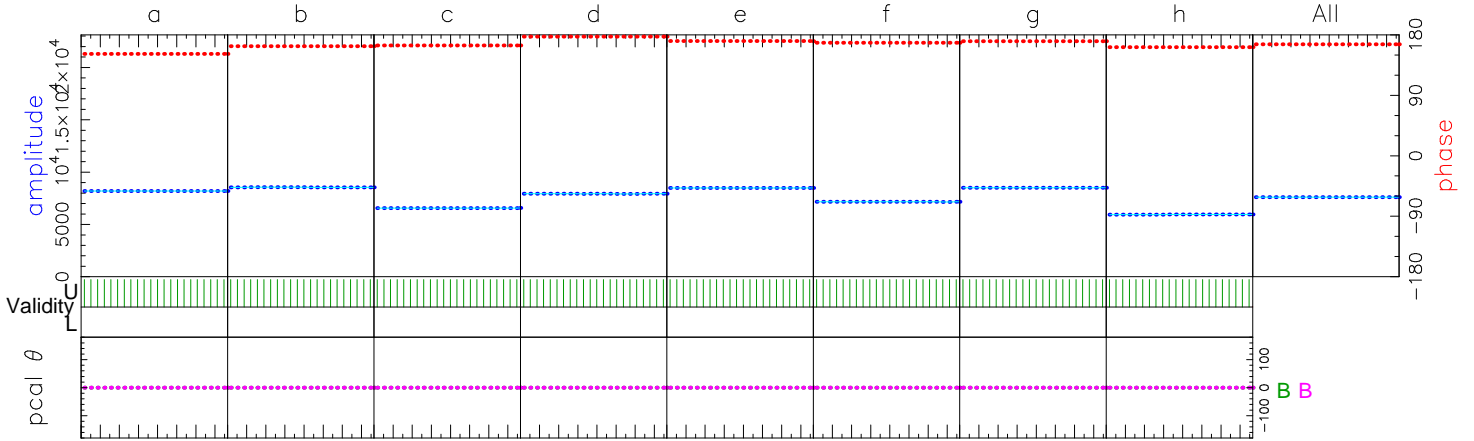


Fringe quality 9

SNR 442043.7
Int time 439.734
Amp 7708.550
Phase 166.0
PFD 0.0e+00
Delays (us)
SBD 0.002380
MBD 0.002912
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
2020:197:120756
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

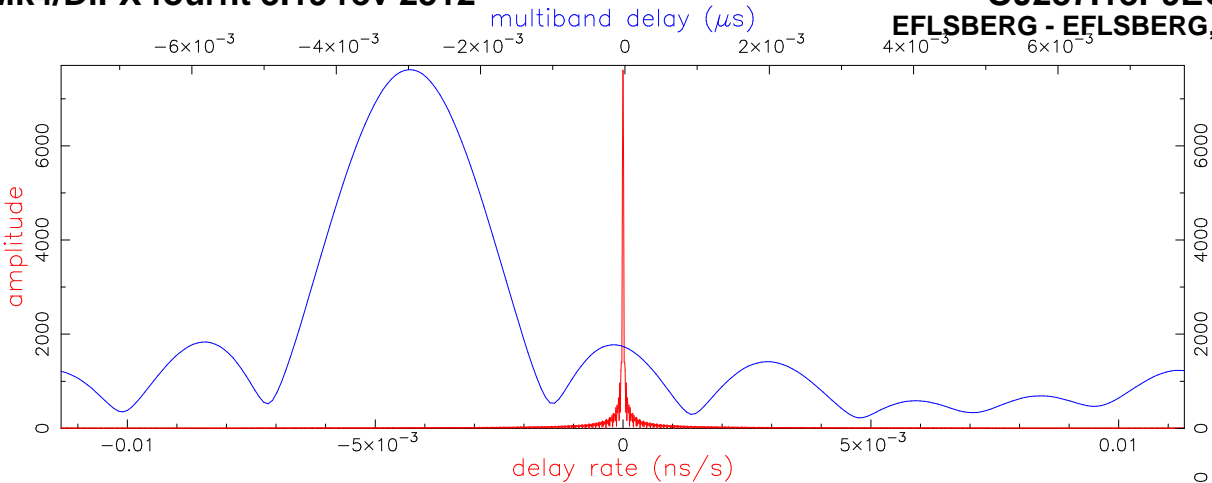


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000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

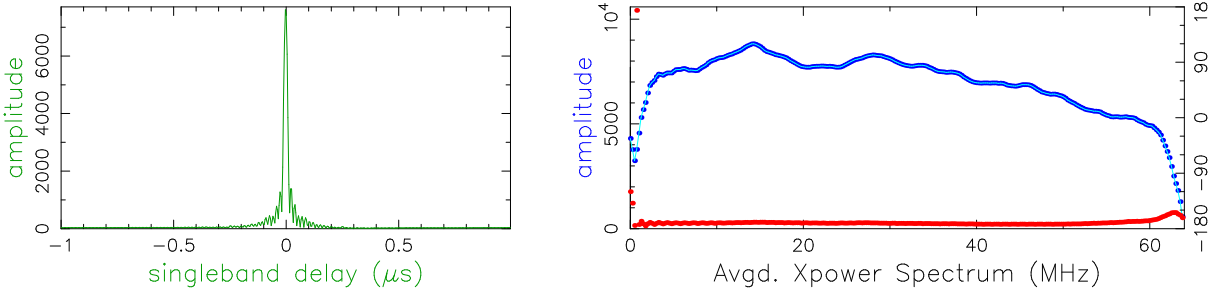
Group delay (usec)(sbd) 2.91156250000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 2.91156E-03 +/- 2.5E-09
 Sband delay (usec) 2.38025000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 2.38025E-03 +/- 1.9E-08
 Phase delay (usec) 5.35232722449E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.35233E-06 +/- 8.4E-12
 Delay rate (us/s) 1.41711523917E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 1.41712E-12 +/- 3.3E-14
 Total phase (deg) 166.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 166.0 +/- 0.0

RMS Theor. Amplitude 7708.550 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 7612.460 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 8.3 0.0 Inc. seg. avg. 7605.681 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 12.1 0.0 Inc. frq. avg. 7668.415 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

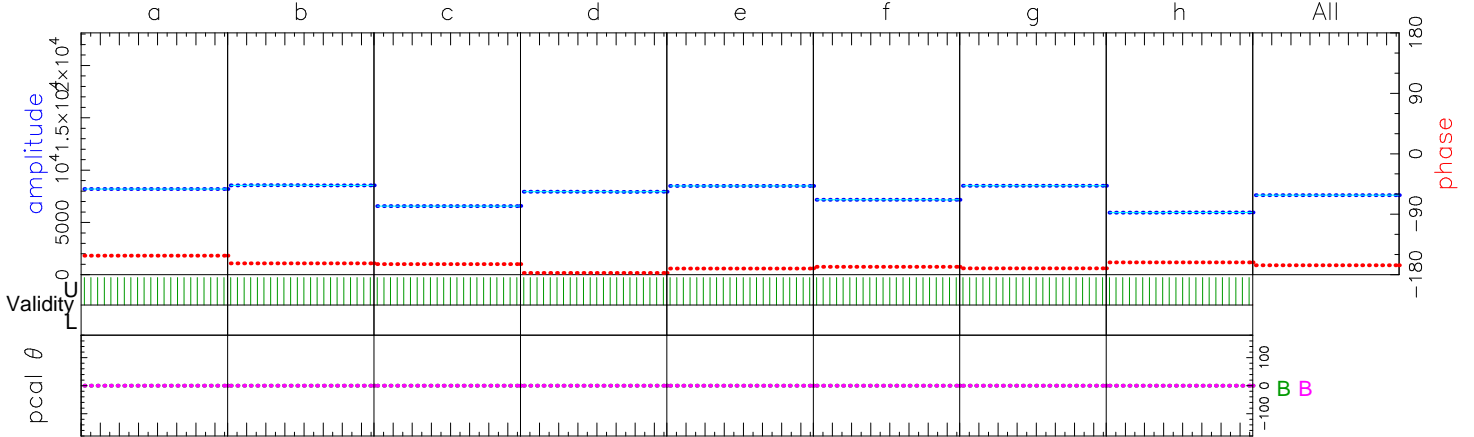
B: az 265.9 el 29.7 pa 42.5 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BB..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BB.W.33.18P9EC



Fringe quality 9
SNR 442043.7
Int time 439.734
Amp 7708.550
Phase -166.0
PFD 0.0e+00
Delays (us)
SBD -0.002380
MBD -0.002912
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
2020:197:120800
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



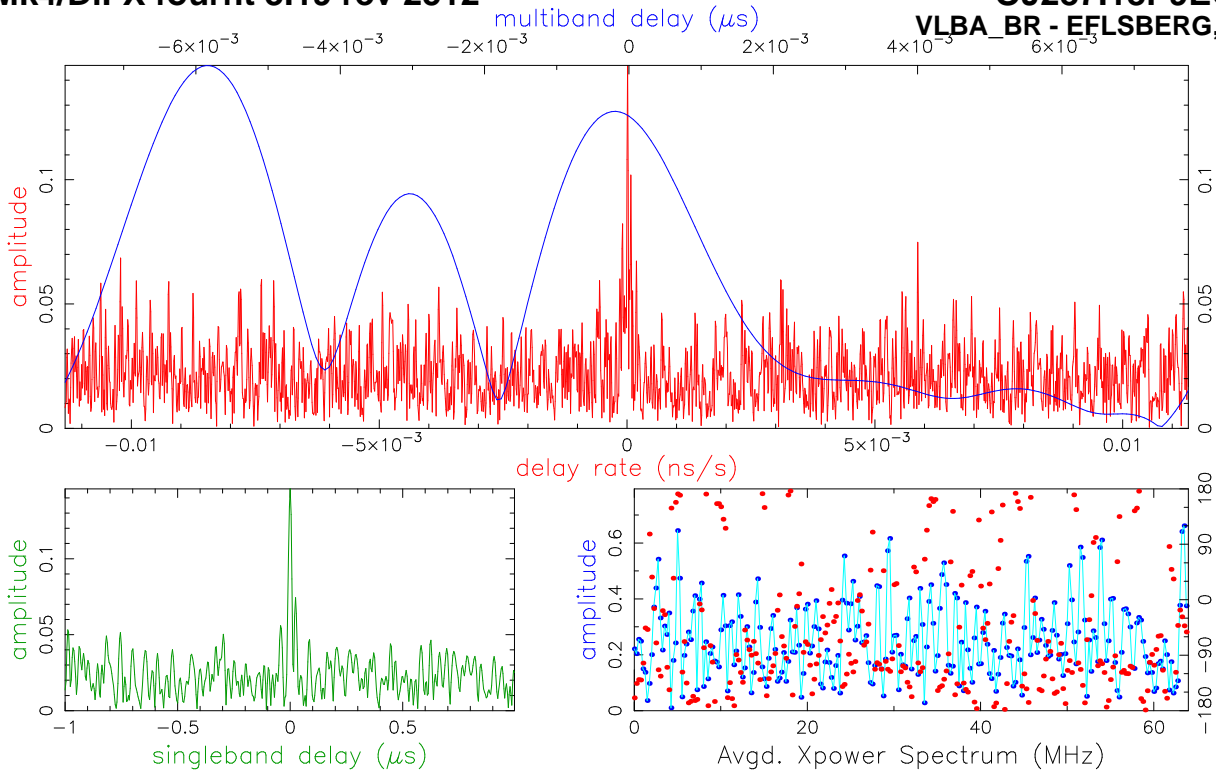
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.5	-162.9	-164.2	-177.2	-170.6	-168.3	-170.3	-161.5	Phase	-166.0
	8199.4	8549.3	6555.7	7930.2	8493.8	7163.9	8507.9	5947.3	Ampl.	7668.4
	255.8	256.3	256.3	256.2	256.4	256.7	256.1	258.0	Sbd box	256.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

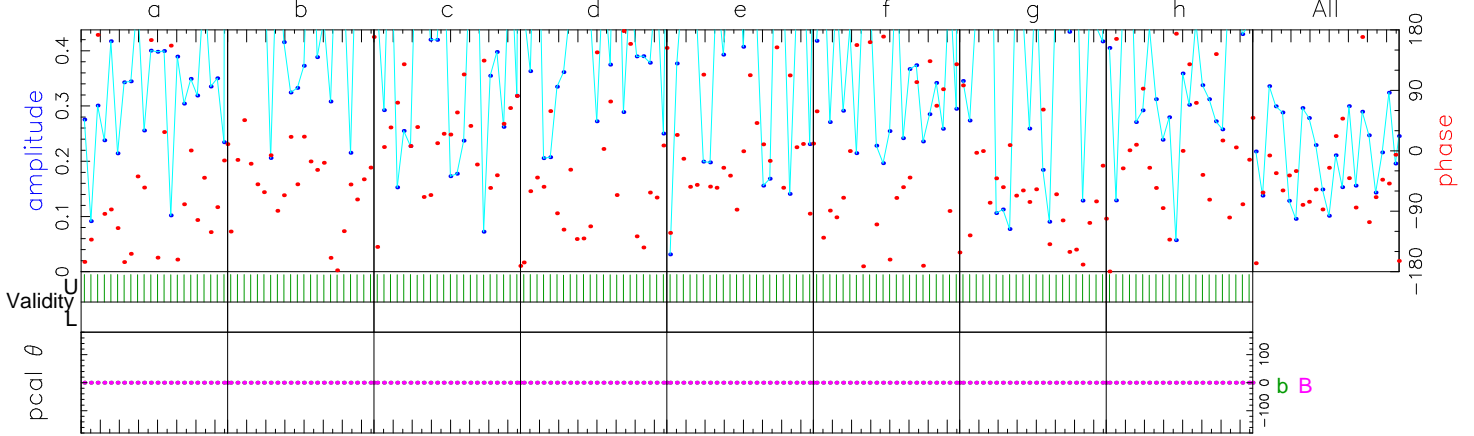
Group delay (usec)(sbd)	-2.91156250000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.91156E-03	+/-	2.5E-09
Sband delay (usec)	-2.38025000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-2.38025E-03	+/-	1.9E-08
Phase delay (usec)	-5.35232722445E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.35233E-06	+/-	8.4E-12
Delay rate (us/s)	-1.41711523917E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.41712E-12	+/-	3.3E-14
Total phase (deg)	-166.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-166.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 7708.550 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.3 0.0 Search (2048X32) 7612.460 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.1 0.0 Inc. seg. avg. 7605.681 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 7668.415 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



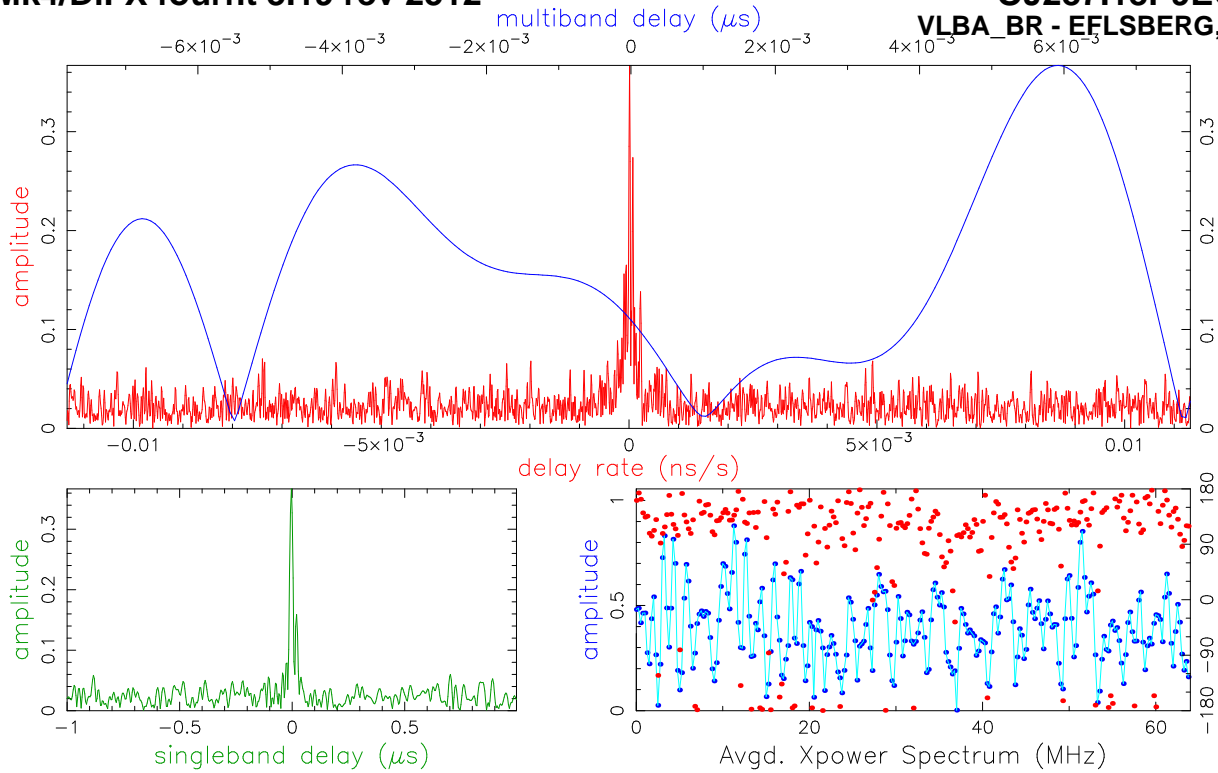
Fringe quality 9
SNR 8.3
Int time 436.666
Amp 0.146
Phase -53.6
PFD 2.6e-08
Delays (us)
SBD -0.000283
MBD -0.005850
Fringe rate (Hz) 0.000586
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
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
	-102.7	-49.6	16.1	-89.3	-20.1	-134.8	-74.6	-24.5	Phase	-53.6
	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	260.9	256.9	256.7	256.3	255.9	22.9	257.0	268.2	Sbd box	256.9
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	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.18094959503E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		-5.85029E-03	+/- 1.3E-04
Sband delay (usec)	2.18095516232E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-2.83000E-04	+/- 1.0E-03
Phase delay (usec)	2.18095544359E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-1.72847E-06	+/- 4.4E-07
Delay rate (us/s)	1.69116744322E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		6.79932E-09	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		-53.6	+/- 13.7

ph/seg (deg) 52.7 32.9 Search (2048X32) 0.139 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.8 57.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.1 19.4 Inc. seg. avg. 0.187 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.3 33.9 Inc. frq. avg. 0.183 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 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 ion window (TEC) 0.00 0.00
 simultaneous interpolator

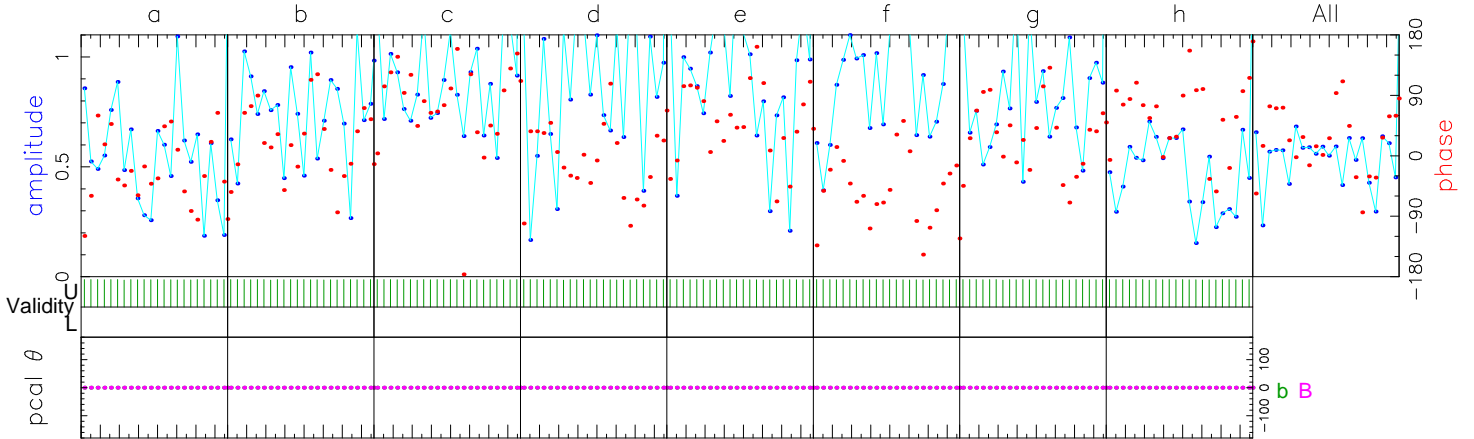


Fringe quality 7

SNR 21.0
Int time 436.666
Amp 0.367
Phase 23.2
PFD 0.0e+00
Delays (us)
SBD -0.003889
MBD 0.005916
Fringe rate (Hz) 0.000594
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

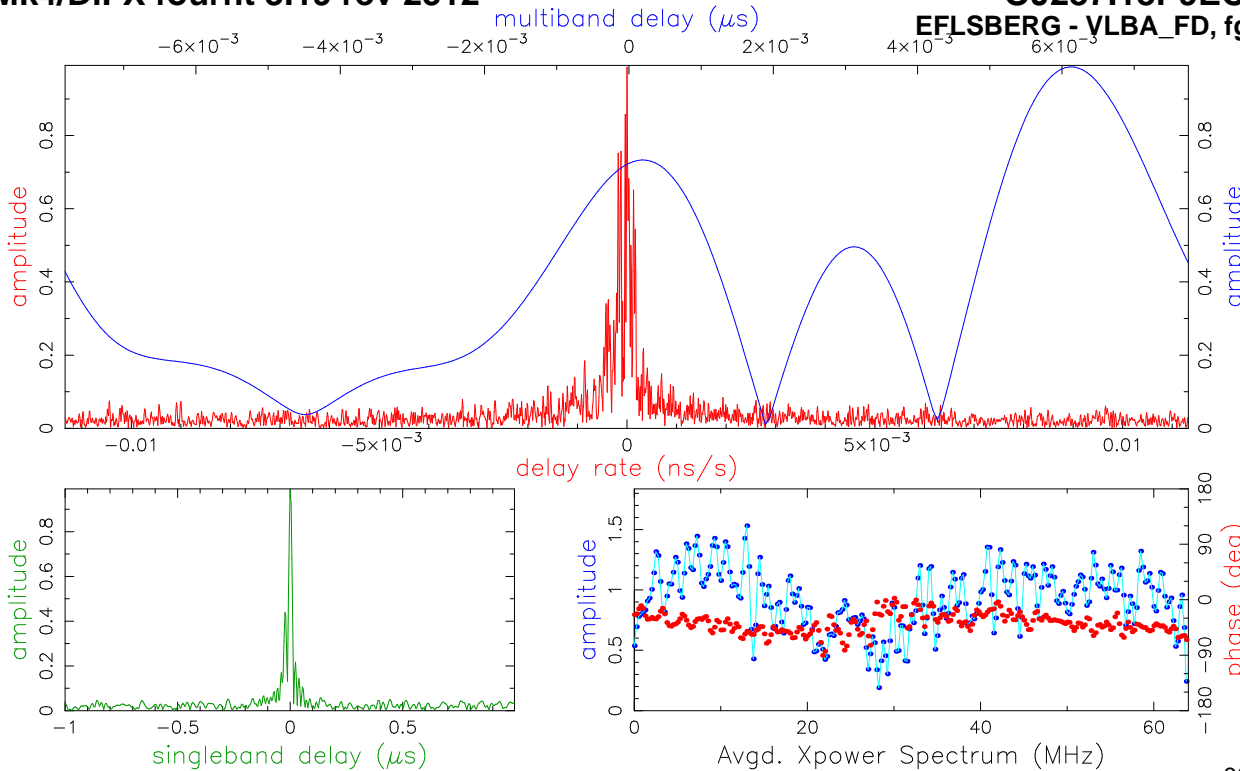
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120804
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



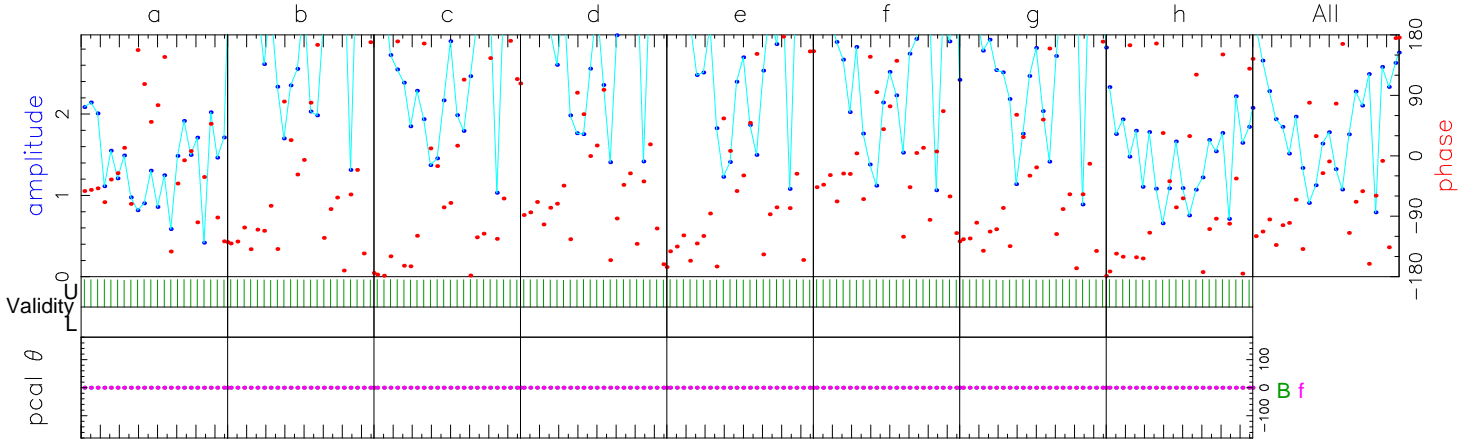
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.2	28.4	91.4	-13.8	57.4	-42.1	20.2	62.2	Phase	23.2
	0.3	0.5	0.6	0.6	0.6	0.6	0.5	0.3	Ampl.	0.5
	259.0	257.2	255.6	255.1	255.3	255.5	256.5	260.9	Sbd box	256.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.18094573662E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		5.91631E-03	+/- 5.2E-05
Sband delay (usec)	2.18095155632E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-3.88900E-03	+/- 4.1E-04
Phase delay (usec)	2.18095544606E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		7.47573E-07	+/- 1.8E-07
Delay rate (us/s)	1.69116744332E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		6.89710E-09	+/- 6.9E-10
Total phase (deg)	44.6		Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		23.2	+/- 5.5

ph/seg (deg) 48.8 13.1 Amplitude 0.367 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.2 22.9 Search (2048X32) 0.352 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.7 7.7 Inc. seg. avg. 0.524 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.4 13.5 Inc. frq. avg. 0.503 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 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 ion window (TEC) 0.00 0.00
 simultaneous interpolator



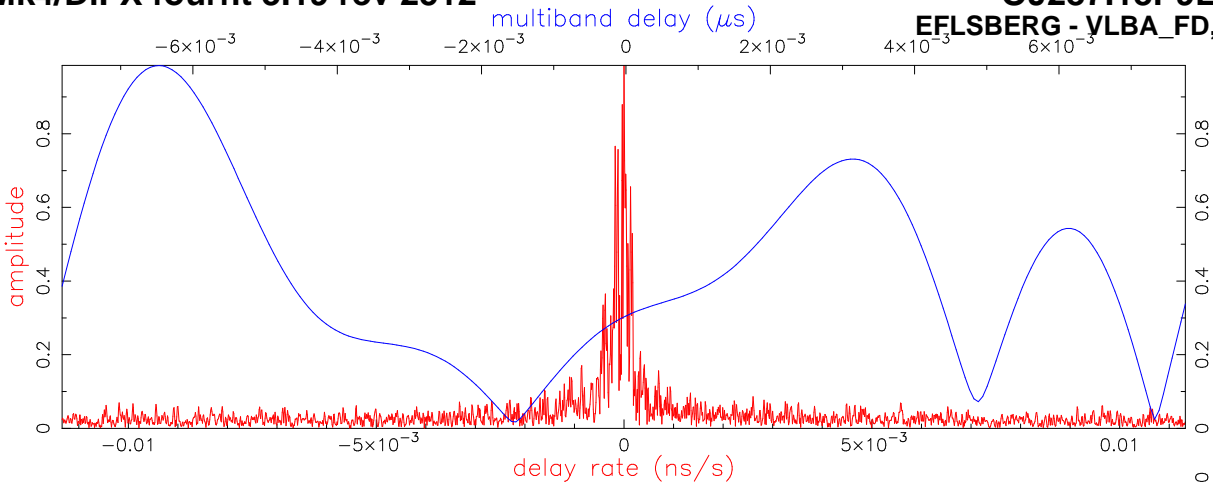
Fringe quality 1
 SNR 56.6
 Int time 435.366
 Amp 0.992
 Phase -99.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.000799
 MBD 0.006174
 Fringe rate (Hz) 0.000108
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120755
 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

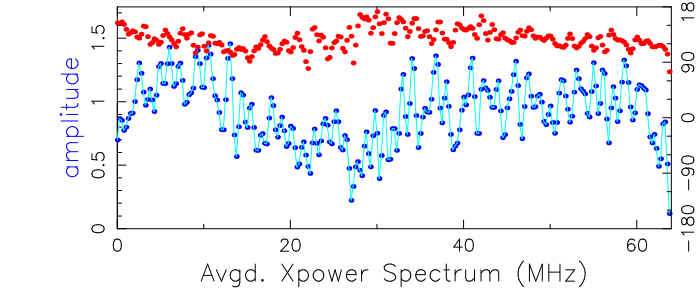
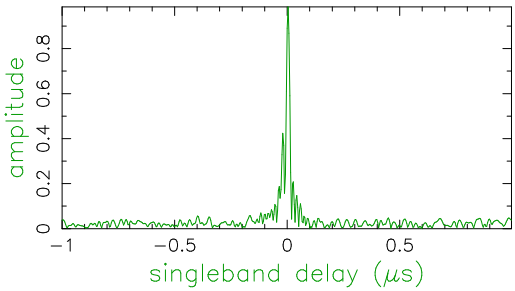


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.9	-111.1	-158.2	-72.1	-122.8	-30.3	-104.9	-145.3	Phase	-99.8
	0.7	1.6	1.3	1.6	1.5	1.4	1.5	0.7	Ampl.	1.3
	253.2	256.5	257.8	257.6	258.1	257.5	256.5	252.5	Sbd box	257.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.13749528601E+03		Apriori delay (usec)		-6.13750145954E+03		Resid mbdelay (usec)		6.17353E-03	+/- 1.9E-05
Sband delay (usec)	-6.13750066004E+03		Apriori clock (usec)		9.1706486E+00		Resid sbdelay (usec)		7.99500E-04	+/- 1.5E-04
Phase delay (usec)	-6.13750146276E+03		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-3.21787E-06	+/- 6.5E-08
Delay rate (us/s)	-1.70961612193E+00		Apriori rate (us/s)		-1.70961612319E+00		Resid rate (us/s)		1.25911E-09	+/- 2.6E-10
Total phase (deg)			Apriori accel (us/s/s)		4.28215205255E-05		Resid phase (deg)		-99.8	+/- 2.0

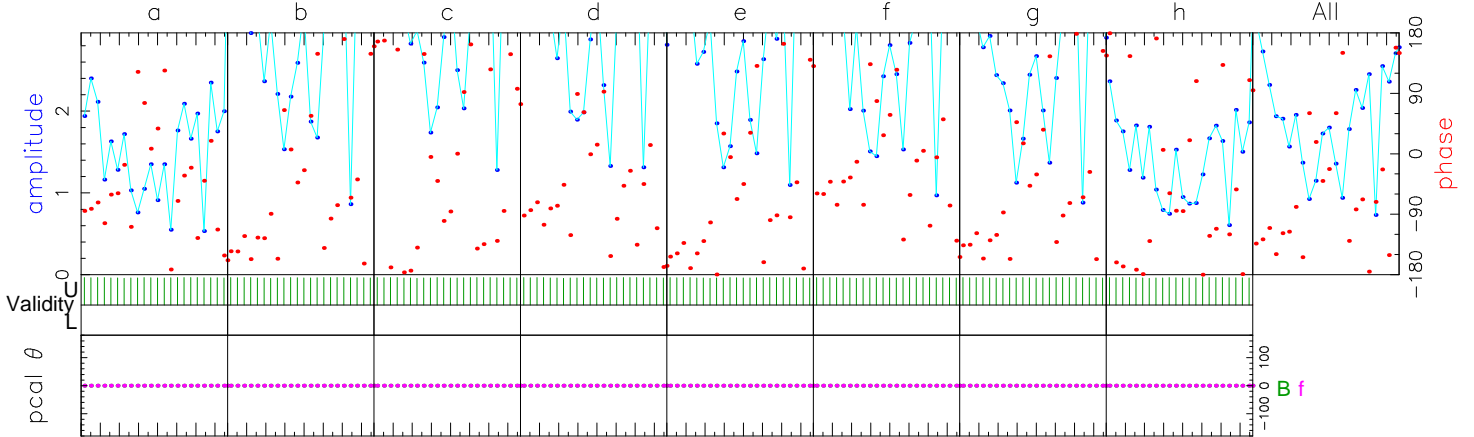
ph/seg (deg) 77.7 4.9 Search (2048X32) 0.967 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.1 8.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.2 2.9 Inc. seg. avg. 1.878 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.9 5.0 Inc. frq. avg. 1.289 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 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 10488.164 3352.735 ion window (TEC) 0.00 0.00
 simultaneous interpolator



Fringe quality 1
SNR 56.2
Int time 435.366
Amp 0.986
Phase -114.3
PFD 0.0e+00
Delays (us)
SBD 0.003674
MBD -0.006485
Fringe rate (Hz)
0.000117
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"



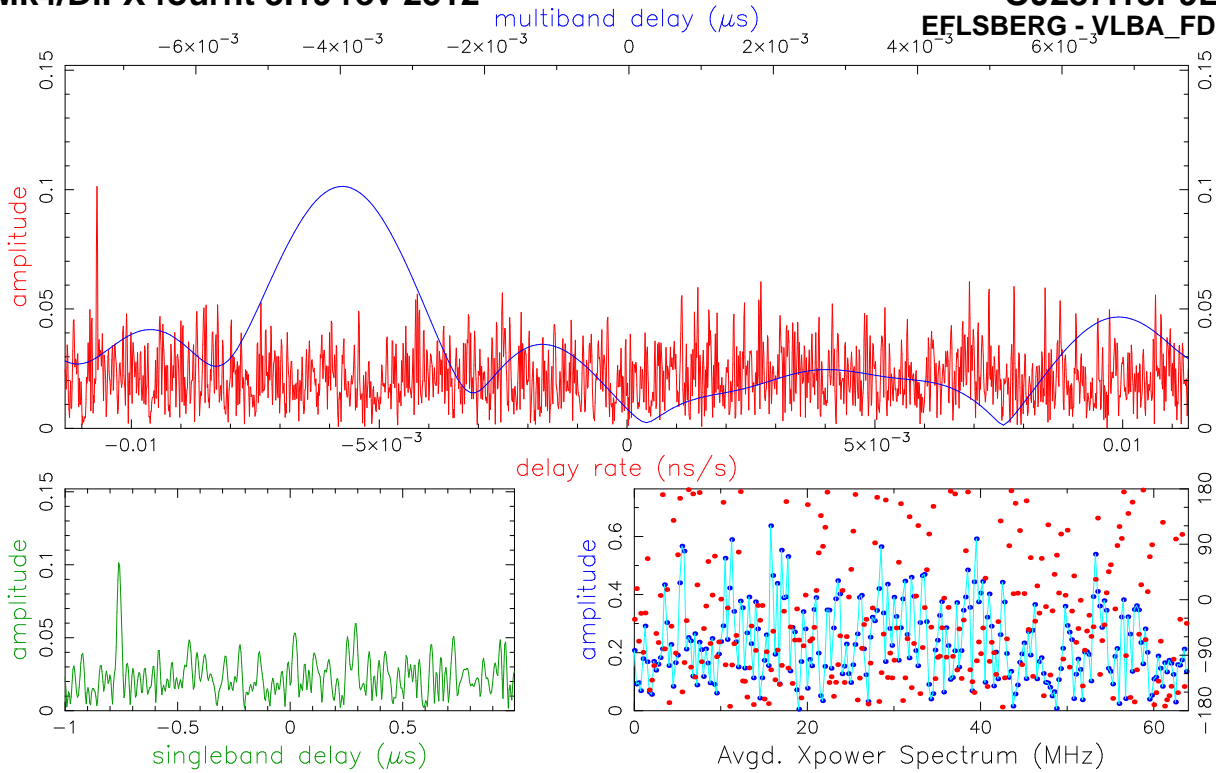
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.13749231989E+03									
Sband delay (usec)	-6.13749778529E+03									
Phase delay (usec)	-6.13750146323E+03									
Delay rate (us/s)	-1.70961612183E+00									
Total phase (deg)			-15.3							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
RMS	77.5	4.9								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
ph/seg (deg)	77.5	4.9								
amp/seg (%)	112.1	8.5								
ph/frq (deg)	51.1	2.9								
amp/frq (%)	51.9	5.0								
0.986 +/- 0.018										
0.975										
0.000										
1.889										
1.351										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Bf
EFLSBERG - VLBA_FD, fgroup W, pol LL

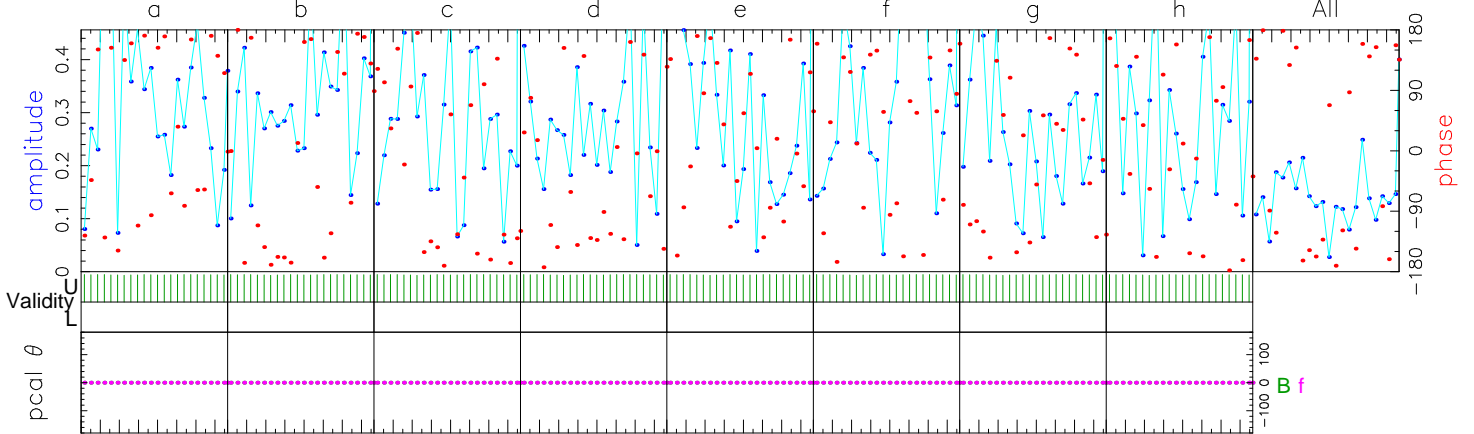


Fringe quality 0

SNR 5.8
Int time 435.366
Amp 0.152
Phase -175.5
PFD 7.6e-01
Delays (us)
SBD -0.760410
MBD -0.003929
Fringe rate (Hz)
-0.922269
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
2020:197:120749
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

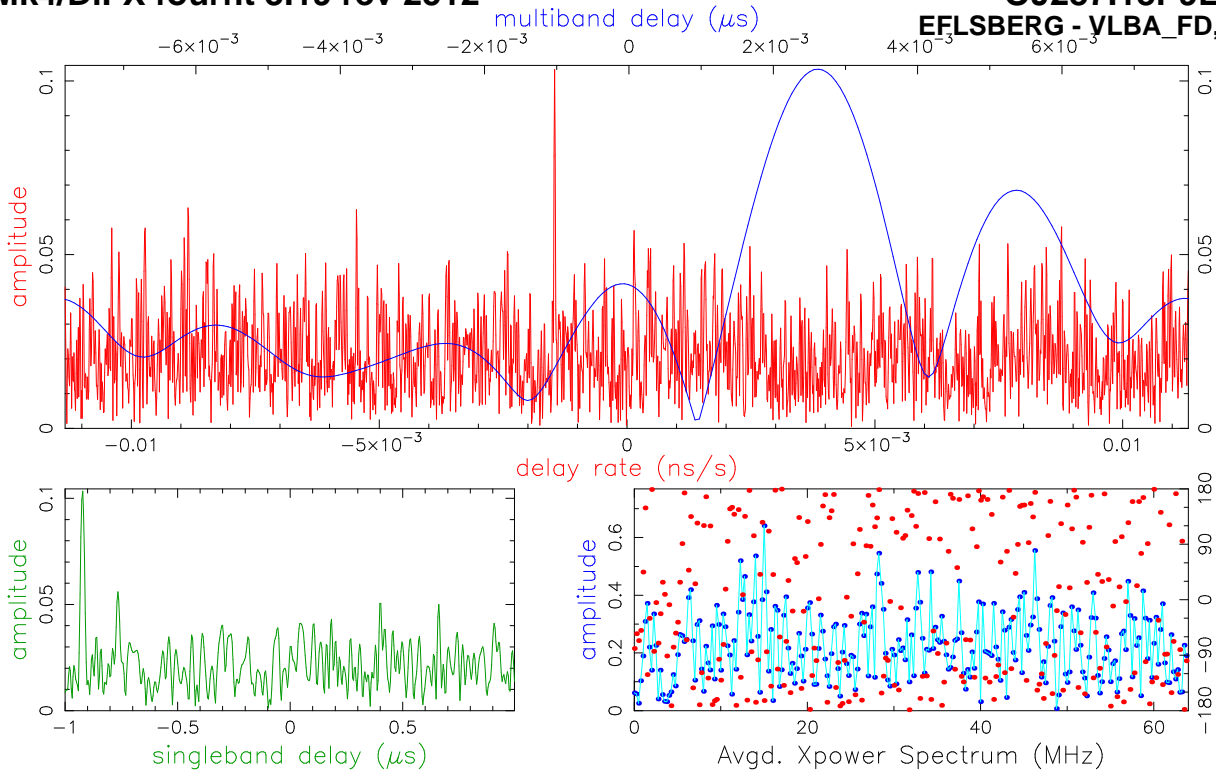
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.13825538881E+03									
Sband delay (usec)	-6.13826186979E+03									
Phase delay (usec)	-6.13750146520E+03									
Delay rate (us/s)	-1.70962682982E+00									
Total phase (deg)			-76.5							
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								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

B: az 265.9 el 29.7 pa 42.5 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 10488.164 3352.735 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bf.W.5.18P9EC

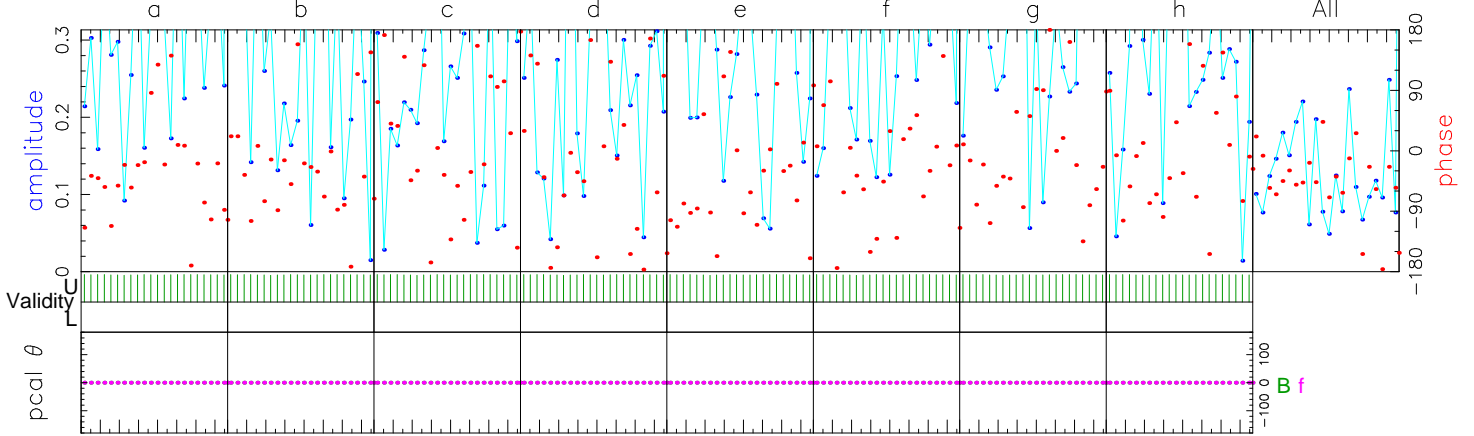


Fringe quality 0

SNR 5.9
Int time 435.366
Amp 0.104
Phase -36.8
PFD 5.6e-01
Delays (us)
SBD -0.922818
MBD 0.002584
Fringe rate (Hz)
-0.125610
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

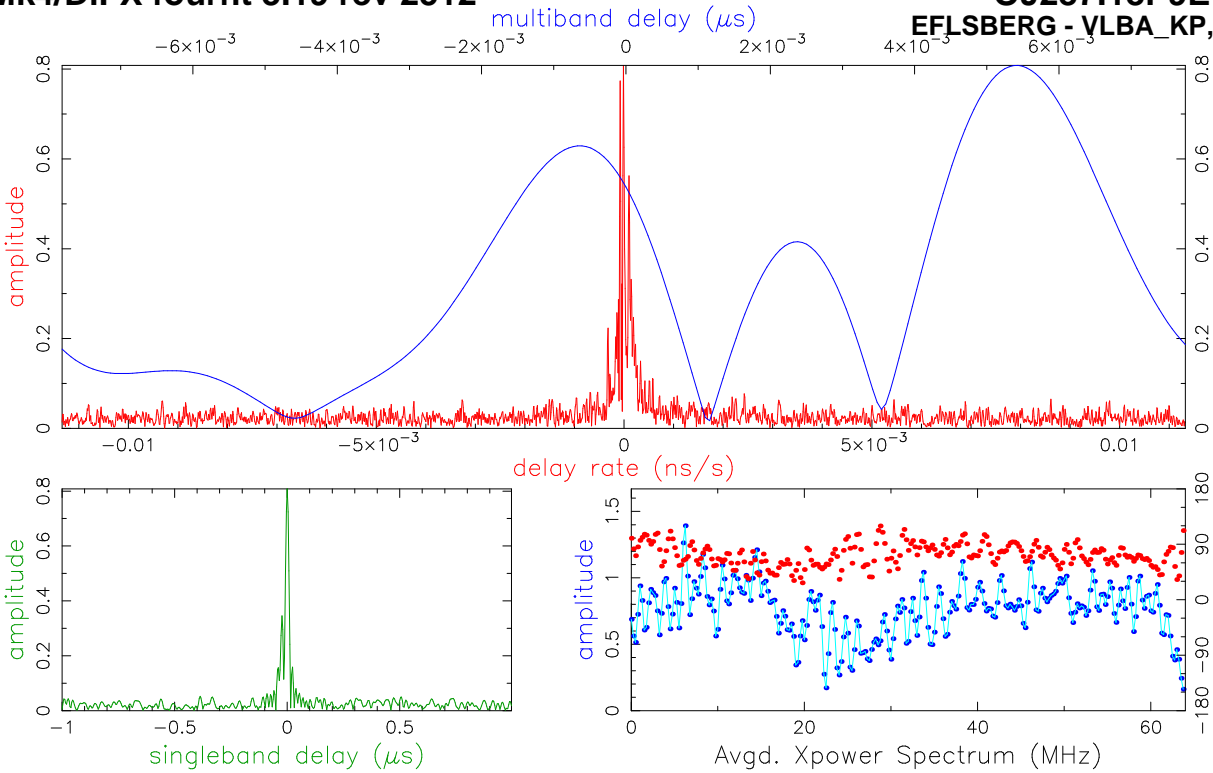
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120804
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-6.13842075096E+03			-6.13750145954E+03				2.58358E-03	+/- 1.8E-04
Sband delay (usec)		-6.13842427754E+03			9.1706486E+00				-9.22818E-01	+/- 1.5E-03
Phase delay (usec)		-6.13750146073E+03			-3.0900000E-07				-1.18781E-06	+/- 6.2E-07
Delay rate (us/s)		-1.70961758139E+00			-1.70961612319E+00				-1.45820E-06	+/- 2.5E-09
Total phase (deg)			-297.8		4.28215205255E-05				-36.8	+/- 19.4
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					ion window (TEC) 0.00 0.00
nlags:					256					t_cohere infinite

ph/seg (deg) 49.3 46.4 Search (2048X32) 0.100 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.3 81.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.1 27.4 Inc. seg. avg. 0.098 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.5 47.8 Inc. frq. avg. 0.100 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 265.9 el 29.7 pa 42.5 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 10488.164 3352.735 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bf.W.65.18P9EC simultaneous interpolator

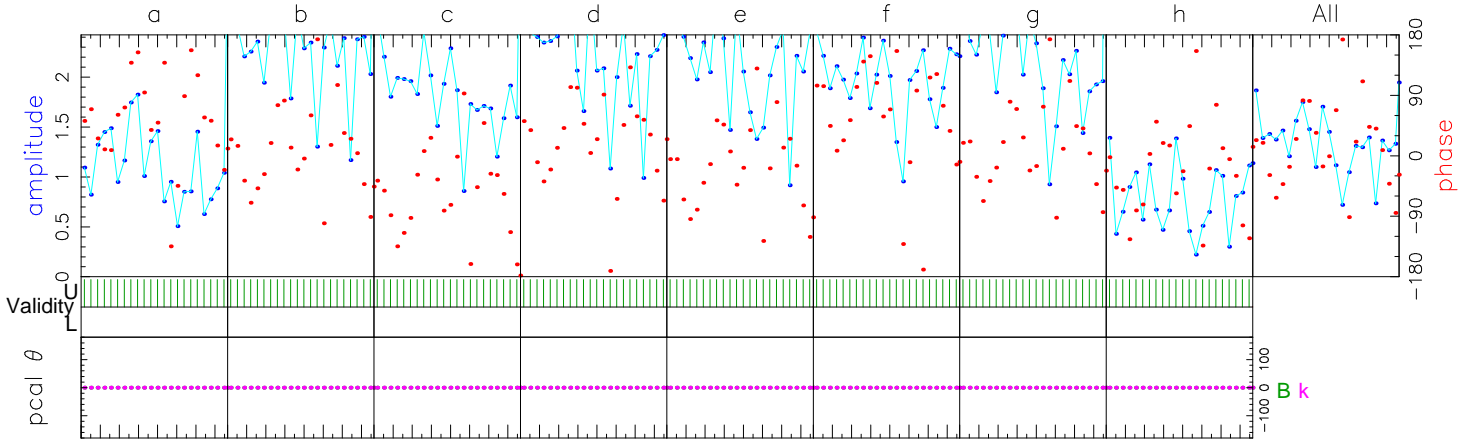


Fringe quality 3

SNR 46.4
Int time 439.734
Amp 0.808
Phase 10.2
PFD 0.0e+00
Delays (us)
SBD -0.000048
MBD 0.005409
Fringe rate (Hz)
-0.000960
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
2020:197:120754
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

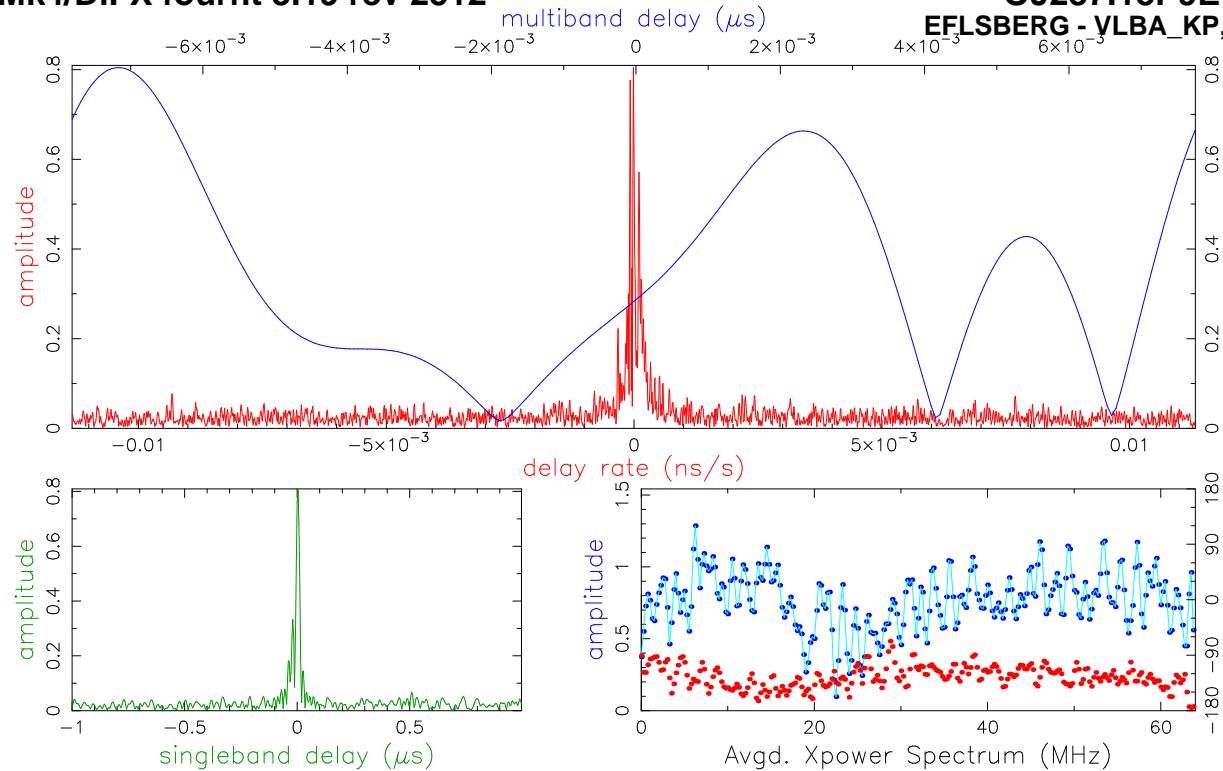


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	67.2	3.6	-56.9	29.1	-18.1	82.4	7.5	-31.4	Phase	10.2
	0.6	1.3	1.1	1.4	1.2	1.2	1.3	0.4	Ampl.	1.1
	253.3	256.2	257.4	257.2	258.2	257.3	256.7	253.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.46236749414E+03		Apriori delay (usec)		-4.46237290277E+03		Resid mbdelay (usec)		5.40863E-03	+/- 2.3E-05
Sband delay (usec)	-4.46237295127E+03		Apriori clock (usec)		1.3402443E+01		Resid sbdelay (usec)		-4.85000E-05	+/- 1.9E-04
Phase delay (usec)	-4.46237290244E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		3.29889E-07	+/- 8.0E-08
Delay rate (us/s)	-1.81257256774E+00		Apriori rate (us/s)		-1.81257255660E+00		Resid rate (us/s)		-1.11407E-08	+/- 3.1E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31748932991E-05		Resid phase (deg)		10.2	+/- 2.5

	RMS	Theor.	Amplitude	0.808 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	62.7	5.9	Search (2048X32)	0.808	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	73.6	10.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	51.5	3.5	Inc. seg. avg.	1.329	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	52.1	6.1	Inc. frq. avg.	1.065	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 265.9 el 29.7 pa 42.5 k: az 91.6 el 42.9 pa -64.5 u,v (fr/asec) 11099.932 2908.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bk..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bk.W.20.18P9EC

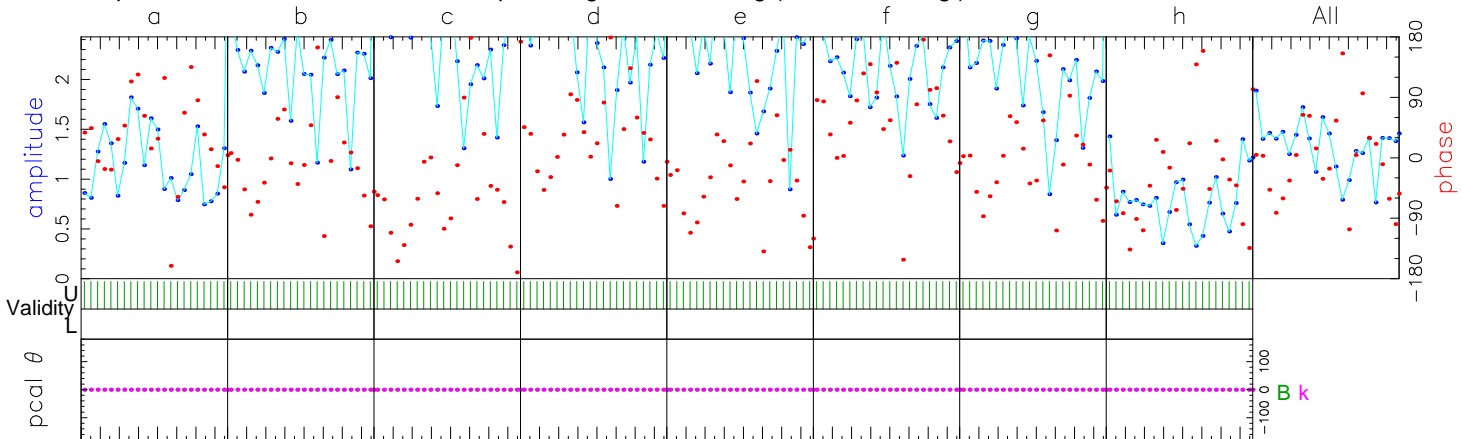


Fringe quality 3

SNR 46.4
Int time 439.734
Amp 0.809
Phase -8.3
PFD 0.0e+00
Delays (us)
SBD 0.002944
MBD -0.007210
Fringe rate (Hz)
-0.000975
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

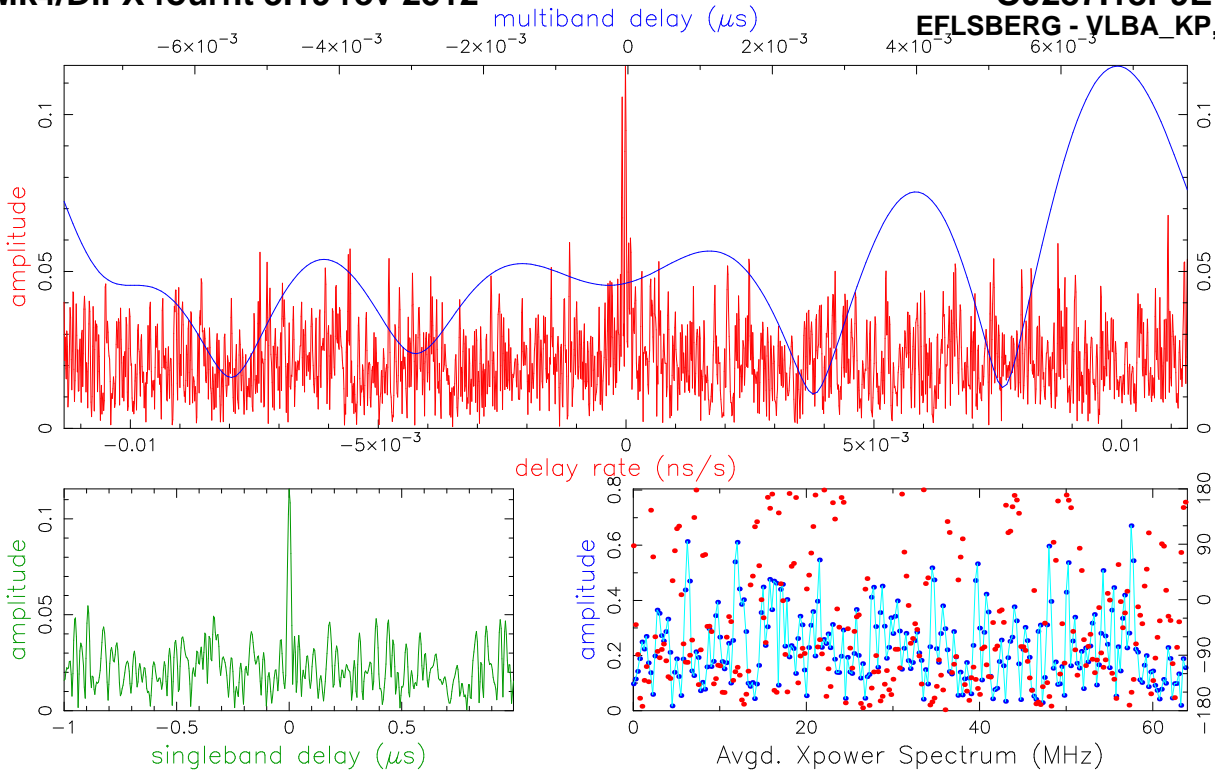
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120758
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



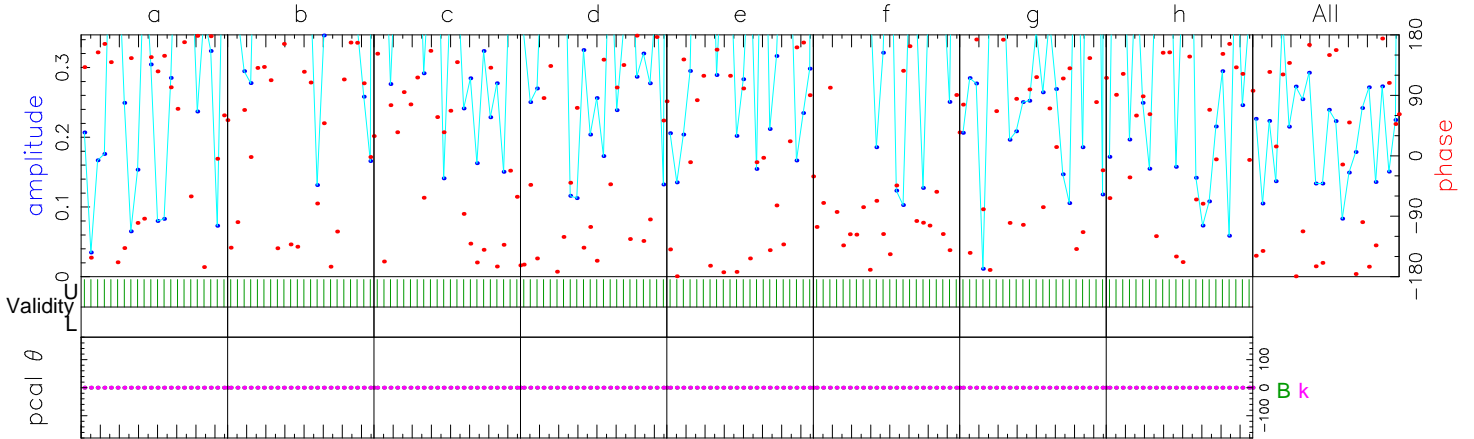
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	40.3	-13.9	-76.9	22.3	-36.0	69.3	-11.3	-54.4	Phase	-8.3
	0.6	1.2	1.4	1.4	1.4	1.3	1.3	0.5	Ampl.	1.1
	254.6	256.9	258.2	258.1	258.8	257.9	257.4	252.6	Sbd box	257.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.46236448752E+03		Apriori delay (usec)		-4.46237290277E+03		Resid mbdelay (usec)		-7.20975E-03	+/- 2.3E-05
Sband delay (usec)	-4.46236995902E+03		Apriori clock (usec)		1.3402443E+01		Resid sbdelay (usec)		2.94375E-03	+/- 1.9E-04
Phase delay (usec)	-4.46237290304E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		-2.67736E-07	+/- 8.0E-08
Delay rate (us/s)	-1.81257256792E+00		Apriori rate (us/s)		-1.81257255660E+00		Resid rate (us/s)		-1.13164E-08	+/- 3.1E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31748932991E-05		Resid phase (deg)		-8.3	+/- 2.5

	RMS	Theor.	Amplitude	0.809 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	62.8	5.9	Search (2048X32)	0.798	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	72.9	10.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	53.2	3.5	Inc. seg. avg.	1.332	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	57.8	6.1	Inc. frq. avg.	1.127	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



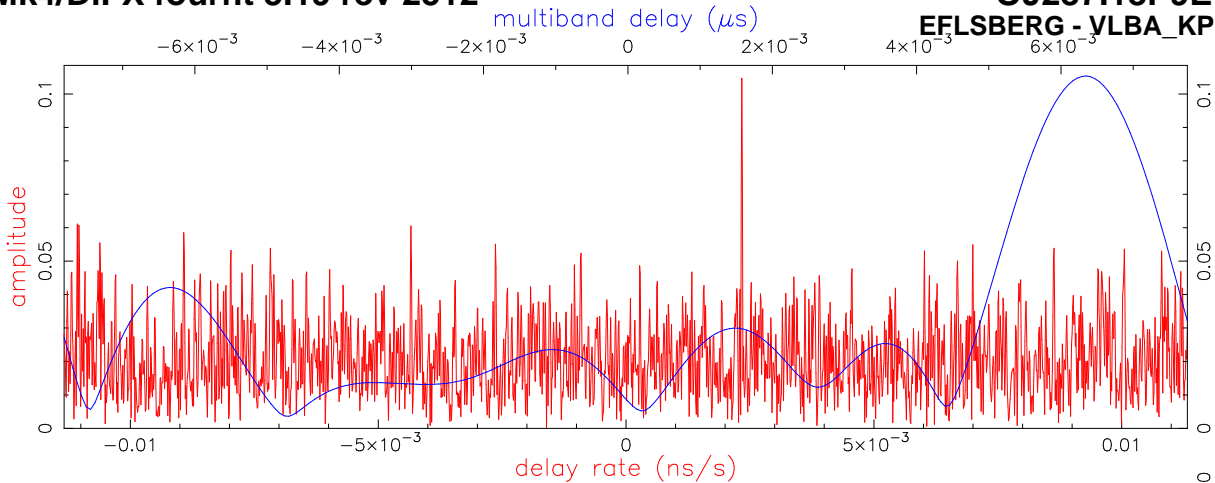
Fringe quality 0
SNR 6.6
Int time 439.734
Amp 0.116
Phase 168.9
PFD 9.4e-03
Delays (us)
SBD 0.000630
MBD 0.006816
Fringe rate (Hz)
-0.000575
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
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

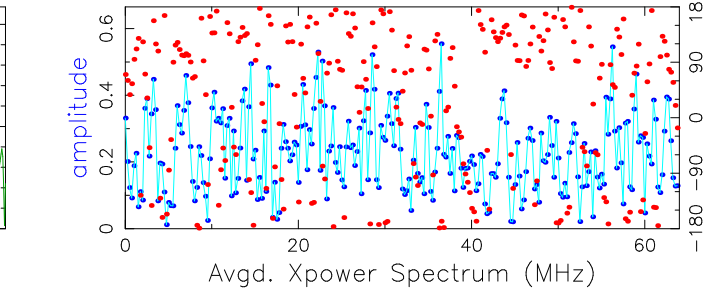
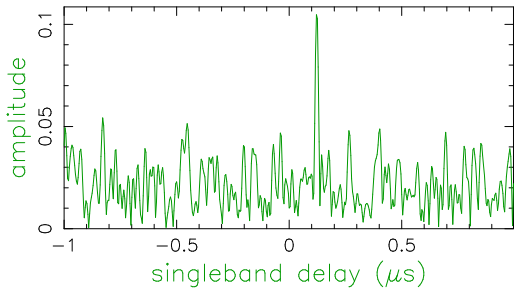


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	161.1	167.0	119.2	-156.8	156.5	-115.3	134.7	130.8	Phase	168.9
	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	168.5	257.7	201.4	109.8	259.5	257.6	305.3	251.5	Sbd box	257.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.46236608677E+03		Apriori delay (usec)		-4.46237290277E+03		Resid mbdelay (usec)		6.81600E-03	+/- 1.6E-04
Sband delay (usec)	-4.46237227327E+03		Apriori clock (usec)		1.3402443E+01		Resid sbdelay (usec)		6.29500E-04	+/- 1.3E-03
Phase delay (usec)	-4.46237289733E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		5.44636E-06	+/- 5.6E-07
Delay rate (us/s)	-1.81257256328E+00		Apriori rate (us/s)		-1.81257255660E+00		Resid rate (us/s)		-6.67320E-09	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		3.31748932991E-05		Resid phase (deg)		168.9	+/- 17.3

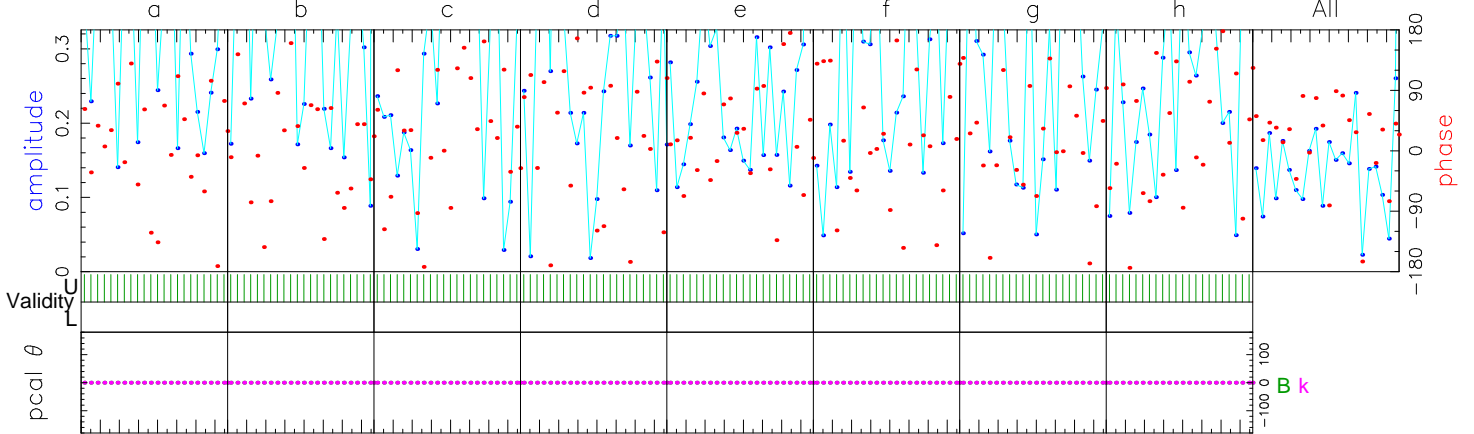
ph/seg (deg) RMS Theor. Amplitude 0.116 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.6 41.4 Search (2048X32) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 102.1 72.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.1 24.4 Inc. seg. avg. 0.164 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 (%) 49.0 42.6 Inc. frq. avg. 0.139 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 0
SNR 6.1
Int time 439.734
Amp 0.109
Phase 33.9
PFD 2.2e-01
Delays (us)
SBD 0.122709
MBD 0.006462
Fringe rate (Hz) 0.201331
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
2020:197:120750
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

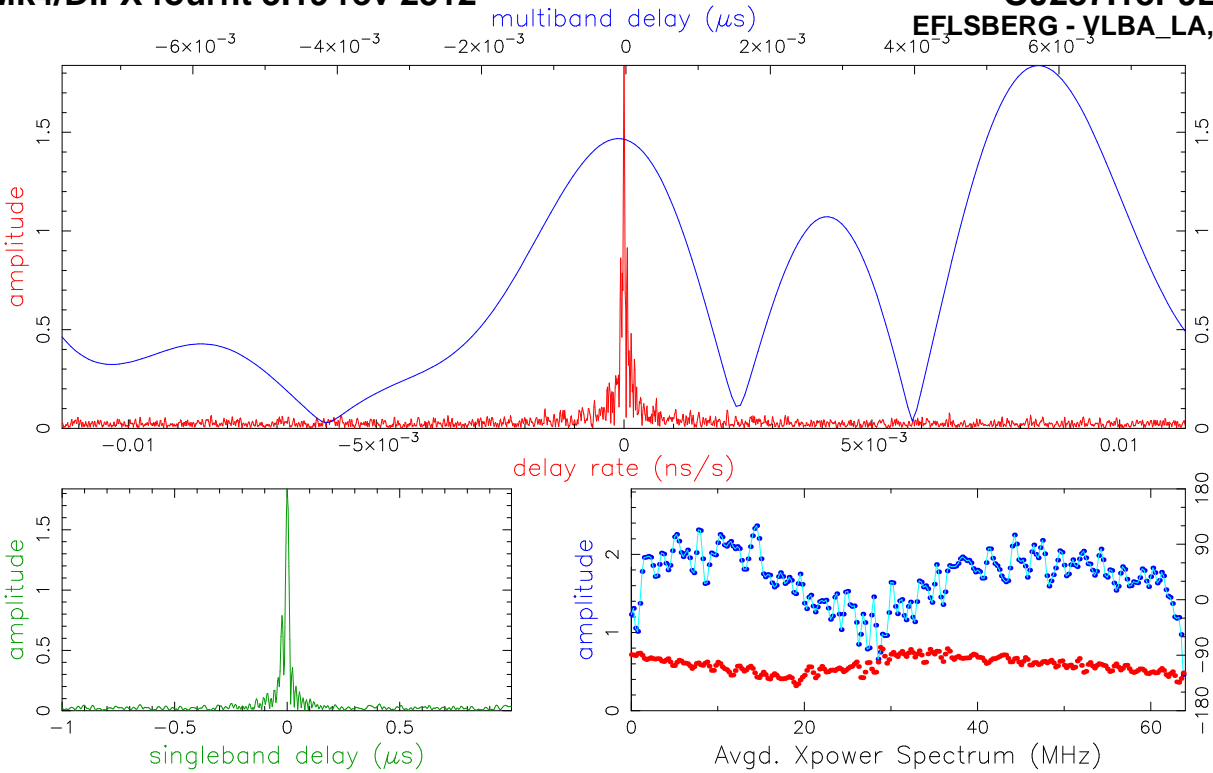


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-4.46225706610E+03	Apriori delay (usec)	-4.46237290277E+03	Resid mbdelay (usec)	6.46167E-03	+/-	1.8E-04
Sband delay (usec)	-4.46225019377E+03	Apriori clock (usec)	1.3402443E+01	Resid sbdelay (usec)	1.22709E-01	+/-	1.4E-03
Phase delay (usec)	-4.46237290168E+03	Apriori clockrate (us/s)	-2.0540000E-07	Resid phdelay (usec)	1.09275E-06	+/-	6.0E-07
Delay rate (us/s)	-1.81257021935E+00	Apriori rate (us/s)	-1.81257255660E+00	Resid rate (us/s)	2.33726E-06	+/-	2.4E-09
Total phase (deg)	-270.2	Apriori accel (us/s/s)	3.31748932991E-05	Resid phase (deg)	33.9	+/-	18.7

ph/seg (deg)	57.3	Theor.	44.9	Amplitude	0.109 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.5		78.4	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	20.5		26.5	Inc. seg. avg.	0.109	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	27.1		46.2	Inc. frq. avg.	0.100	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 265.9 el 29.7 pa 42.5 k: az 91.6 el 42.9 pa -64.5 u,v (fr/asec) 11099.932 2908.942 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bk..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bk.W.6.18P9EC

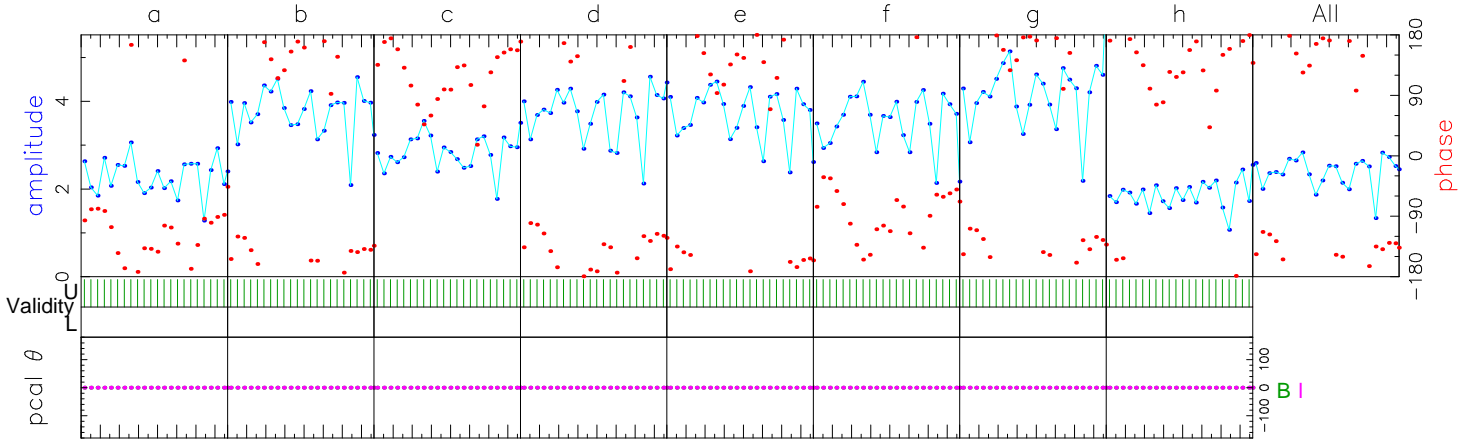


Fringe quality 2

SNR 105.4
Int time 439.394
Amp 1.839
Phase -169.1
PFD 0.0e+00
Delays (us)
SBD 0.000234
MBD 0.005726
Fringe rate (Hz) 0.000103
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

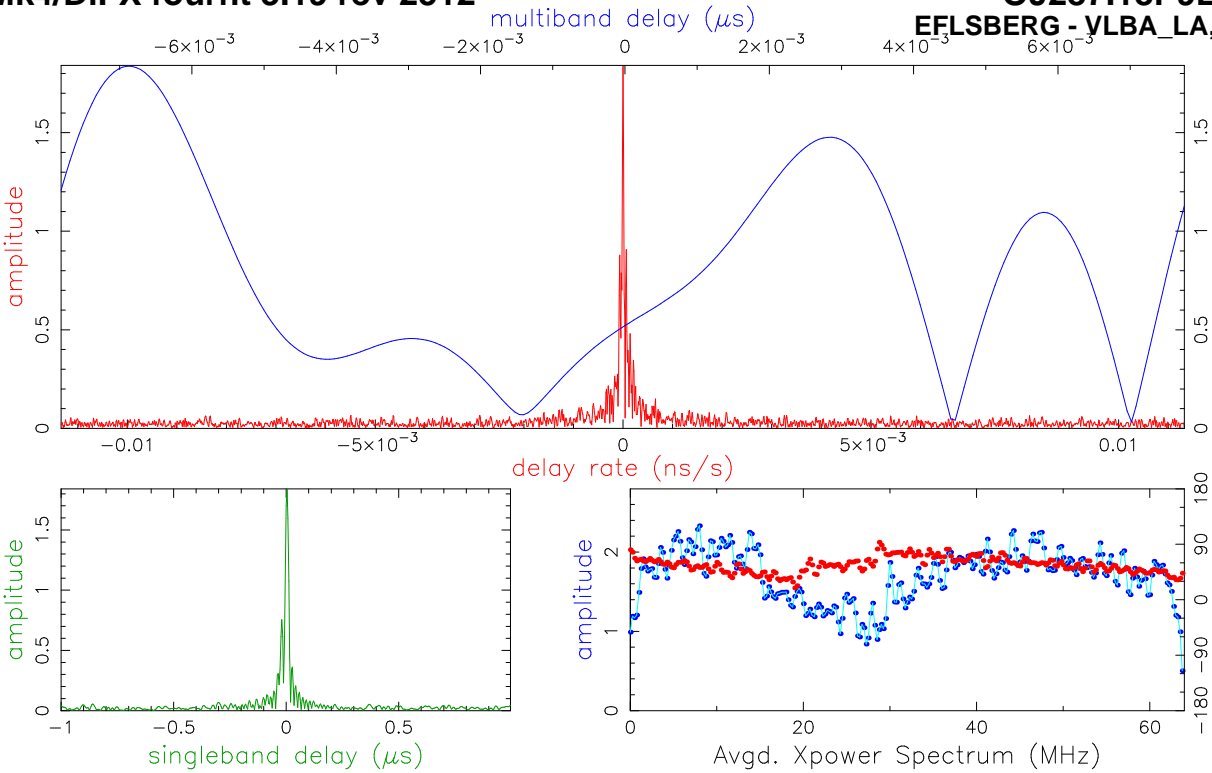
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120755
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.50389686940E+03	-5.50390236124E+03	-5.50390260069E+03	-5.50390260069E+03	-5.50390259524E+03	-5.50390259524E+03	-5.50390259524E+03	-5.50390259524E+03		
Sband delay (usec)	-126.3	-176.9	114.8	-155.2	163.9	-92.6	-166.1	142.8		
Phase delay (usec)	1.8	2.9	2.1	2.9	2.8	3.2	1.4	3.2		
Delay rate (us/s)	253.8	256.3	257.5	257.7	257.9	257.6	256.6	252.4		
Total phase (deg)			-8.6							
Apriori delay (usec)									5.72584E-03	+/- 1.0E-05
Apriori clock (usec)									2.34000E-04	+/- 8.2E-05
Apriori clockrate (us/s)									-5.45358E-06	+/- 3.5E-08
Apriori accel (us/s/s)									1.19321E-09	+/- 1.4E-10
Resid mbdelay (usec)									-169.1	+/- 1.1
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 40.4 2.6 Search (2048X32) 1.817 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 35.5 4.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 52.9 1.5 Inc. seg. avg. 2.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 47.0 2.7 Inc. frq. avg. 2.472 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 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 simultaneous interpolator

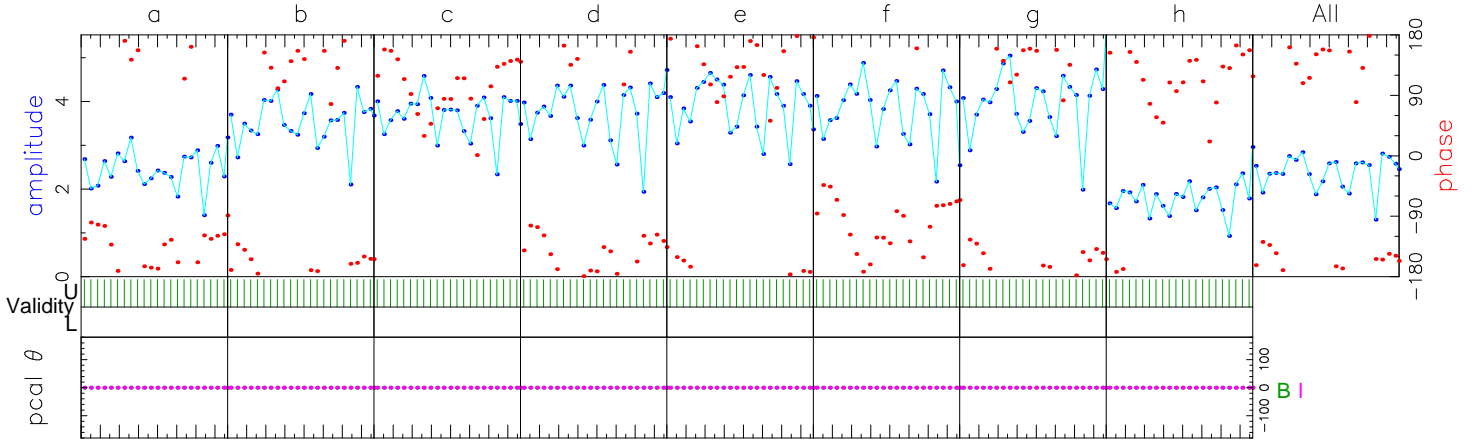


Fringe quality 2

SNR 105.6
Int time 439.394
Amp 1.841
Phase 174.2
PFD 0.0e+00
Delays (us)
SBD 0.003330
MBD -0.006898
Fringe rate (Hz) 0.000109
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

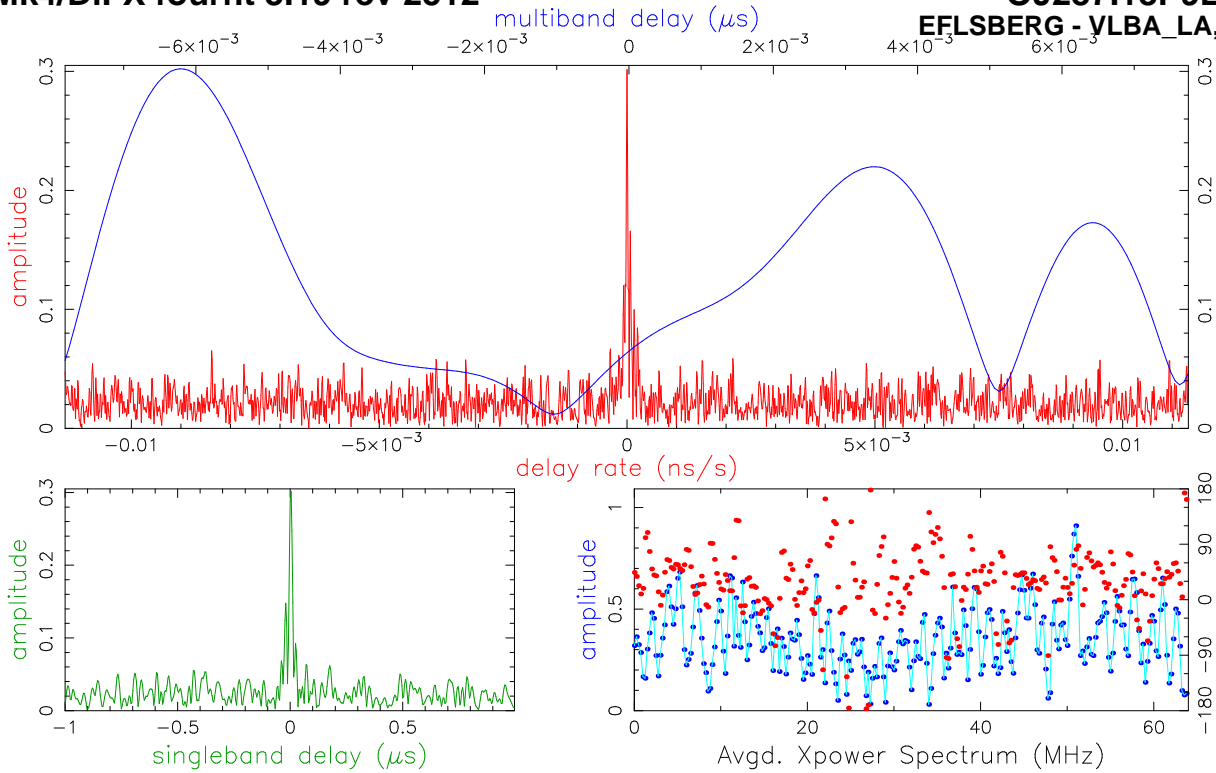
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120758
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-152.2	168.3	100.1	-158.7	147.1	-106.9	175.5	124.2	Phase	174.2
	1.9	2.7	2.8	2.9	2.9	2.9	3.0	1.3	Ampl.	2.6
	255.0	257.0	258.2	258.6	258.5	258.2	257.3	253.0	Sbd box	257.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.50389386871E+03		Apriori delay (usec)		-5.50390259524E+03		Resid mbdelay (usec)		-6.89847E-03	+/- 1.0E-05
Sband delay (usec)	-5.50389926499E+03		Apriori clock (usec)		1.6745152E+01		Resid sbdelay (usec)		3.33025E-03	+/- 8.2E-05
Phase delay (usec)	-5.50390258962E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		5.61824E-06	+/- 3.5E-08
Delay rate (us/s)	-1.69609389008E+00		Apriori rate (us/s)		-1.69609389135E+00		Resid rate (us/s)		1.27044E-09	+/- 1.4E-10
Total phase (deg)			Apriori accel (us/s/s)		3.65935628599E-05		Resid phase (deg)		174.2	+/- 1.1

ph/seg (deg) 40.4 2.6 Search (2048X32) 1.830 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 35.9 4.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 53.0 1.5 Inc. seg. avg. 2.386 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.5 2.7 Inc. frq. avg. 2.568 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 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BI..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BI.W.42.18P9EC simultaneous interpolator

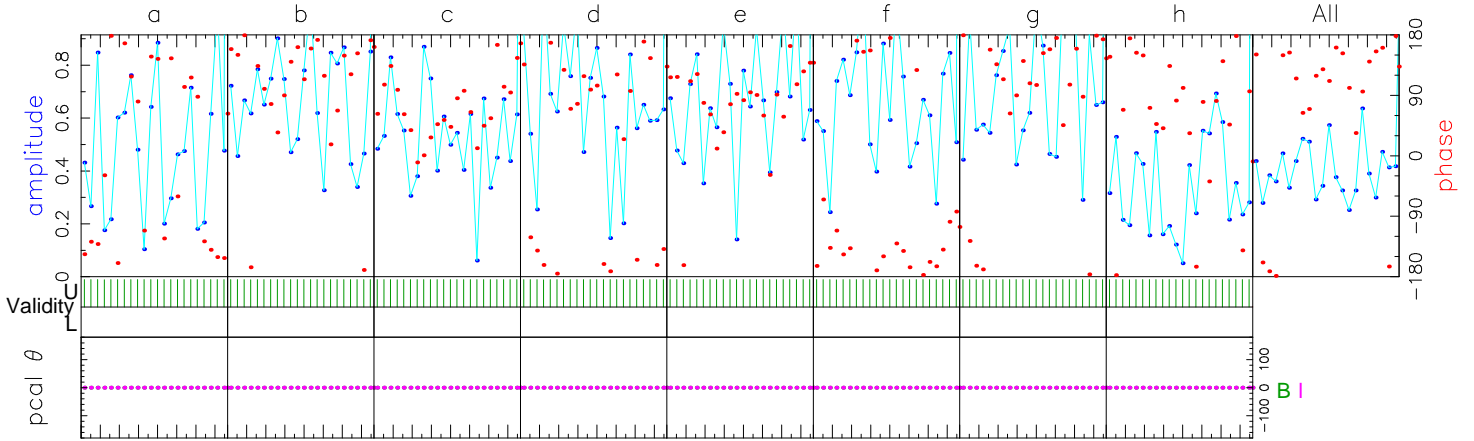


Fringe quality 7

SNR 17.5
Int time 439.394
Amp 0.305
Phase 135.8
PFD 0.0e+00
Delays (us)
SBD 0.002677
MBD -0.006283
Fringe rate (Hz)
0.000110
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

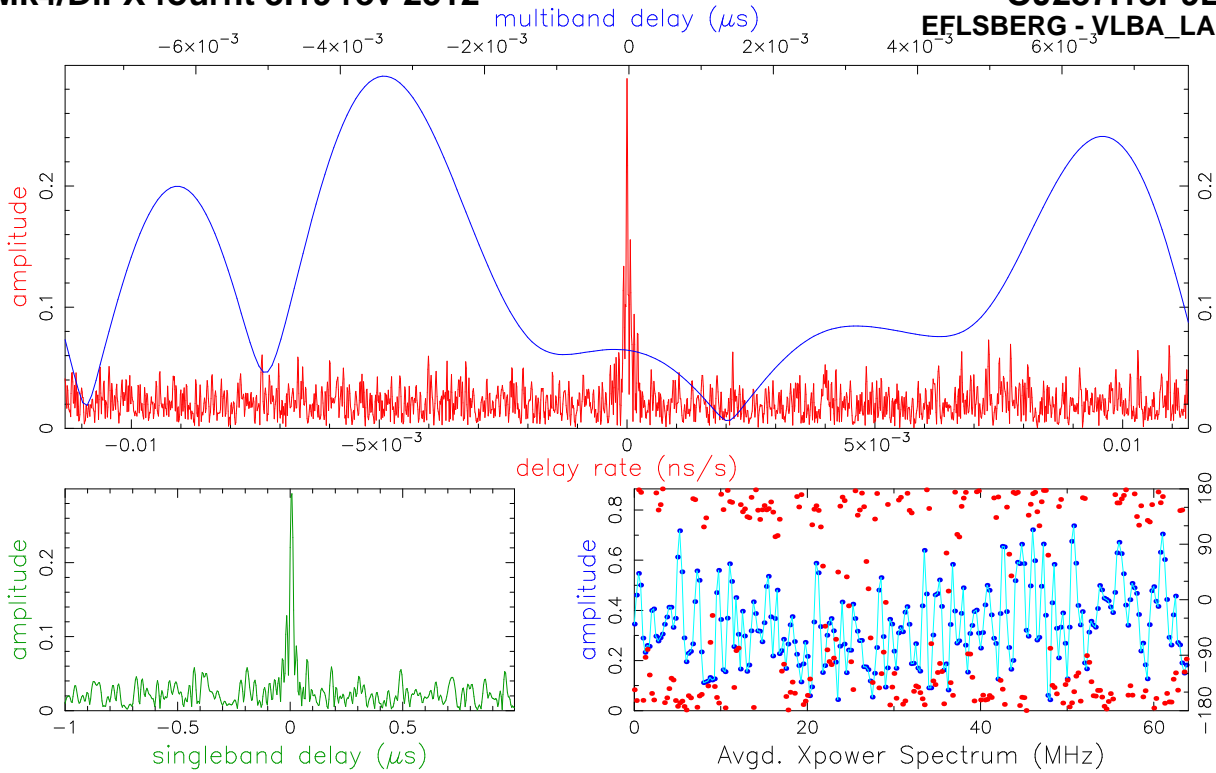
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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	176.7	130.9	71.8	147.3	91.5	-152.5	140.8	110.5	Phase	135.8
B	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.2	Ampl.	0.4
I	254.7	257.3	258.2	258.1	258.9	258.7	257.3	253.9	Sbd box	257.7
B	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.50389325315E+03		Apriori delay (usec)		-5.50390259524E+03		Resid mbdelay (usec)		-6.28291E-03	+/- 6.2E-05
Sband delay (usec)	-5.50389991799E+03		Apriori clock (usec)		1.6745152E+01		Resid sbdelay (usec)		2.67725E-03	+/- 4.9E-04
Phase delay (usec)	-5.50390259086E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		4.37900E-06	+/- 2.1E-07
Delay rate (us/s)	-1.69609389007E+00		Apriori rate (us/s)		-1.69609389135E+00		Resid rate (us/s)		1.27966E-09	+/- 8.3E-10
Total phase (deg)			Apriori accel (us/s/s)		3.65935628599E-05		Resid phase (deg)		135.8	+/- 6.6

ph/seg (deg) 43.3 15.7 Search (2048X32) 0.299 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.6 27.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.8 9.3 Inc. seg. avg. 0.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.3 16.2 Inc. frq. avg. 0.399 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 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BI..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BI.W.60.18P9EC simultaneous interpolator

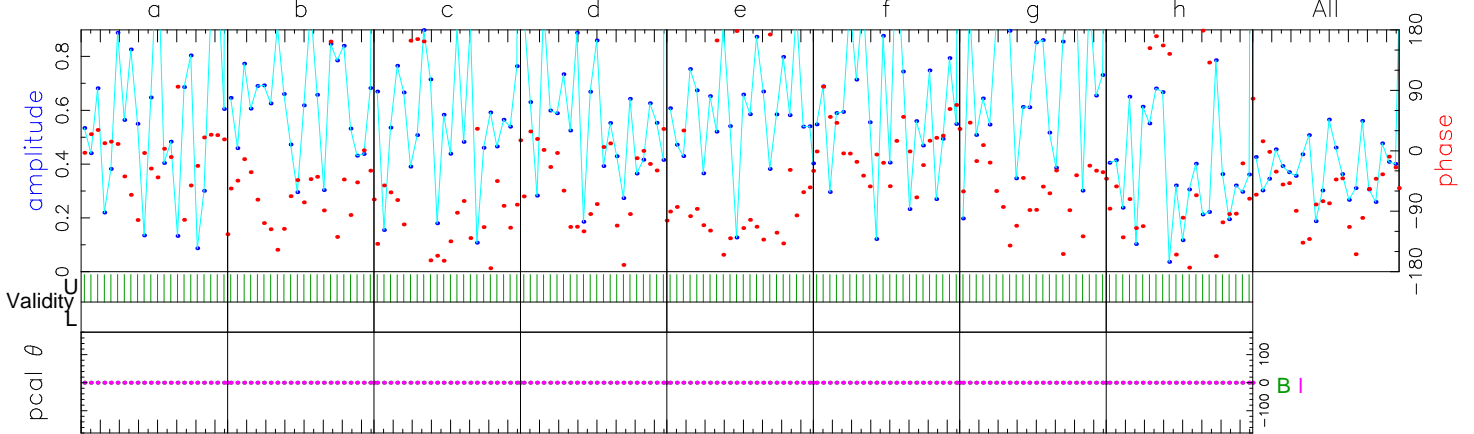


Fringe quality 7

SNR 17.2
Int time 439.394
Amp 0.300
Phase -62.4
PFD 0.0e+00
Delays (us)
SBD 0.006109
MBD -0.003261
Fringe rate (Hz) 0.000117
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

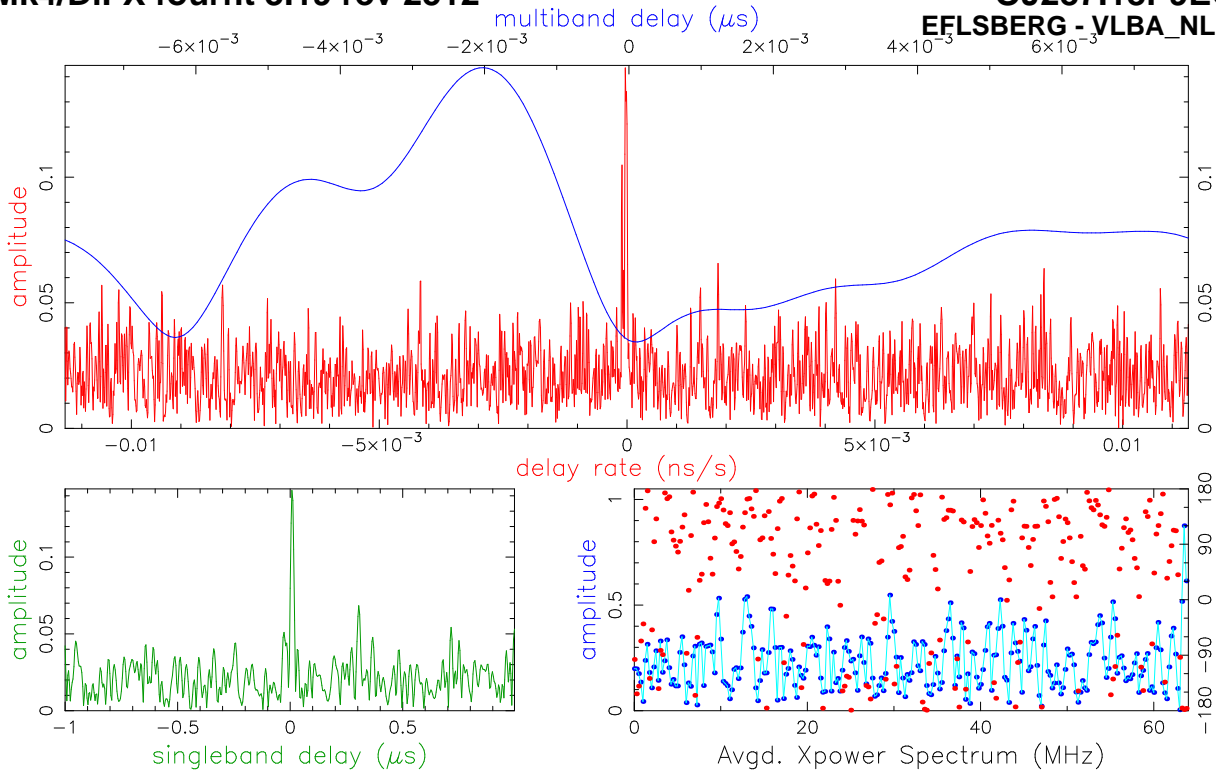
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120750
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



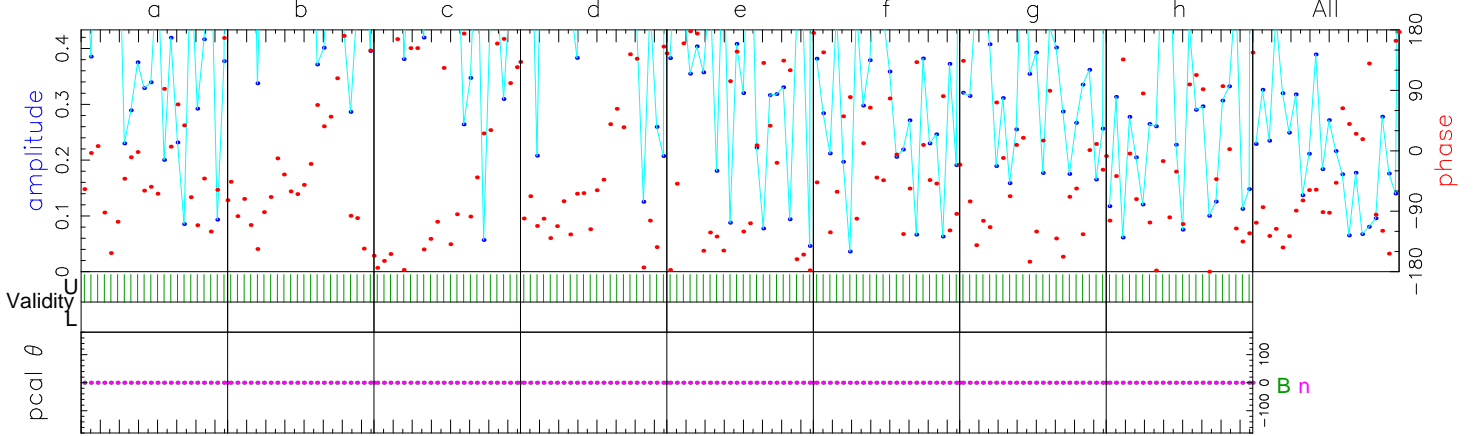
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.0	-71.7	-121.3	-44.8	-109.6	6.7	-56.7	-130.2	Phase	-62.4
	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.2	Ampl.	0.4
	255.9	258.2	259.8	258.9	259.5	259.3	258.2	254.8	Sbd box	258.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.50389023115E+03		Apriori delay (usec)		-5.50390259524E+03		Resid mbdelay (usec)		-3.26091E-03	+/- 6.3E-05
Sband delay (usec)	-5.50389648599E+03		Apriori clock (usec)		1.6745152E+01		Resid sbdelay (usec)		6.10925E-03	+/- 5.0E-04
Phase delay (usec)	-5.50390259725E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-2.01317E-06	+/- 2.2E-07
Delay rate (us/s)	-1.69609388998E+00		Apriori rate (us/s)		-1.69609389135E+00		Resid rate (us/s)		1.36326E-09	+/- 8.5E-10
Total phase (deg)			Apriori accel (us/s/s)		3.65935628599E-05		Resid phase (deg)		-62.4	+/- 6.7

ph/seg (deg) 43.3 16.0 Search (2048X32) 0.289 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.2 27.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.7 9.4 Inc. seg. avg. 0.371 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.2 16.5 Inc. frq. avg. 0.401 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_coherence infinite dr window (ns/s) -0.011 0.011
 B: az 265.9 el 29.7 pa 42.5 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BI..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BI.W.8.18P9EC



Fringe quality 9
SNR 8.3
Int time 439.212
Amp 0.145
Phase -98.1
PFD 4.3e-08
Delays (us)
SBD 0.008850
MBD -0.001972
Fringe rate (Hz)
-0.002538
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"

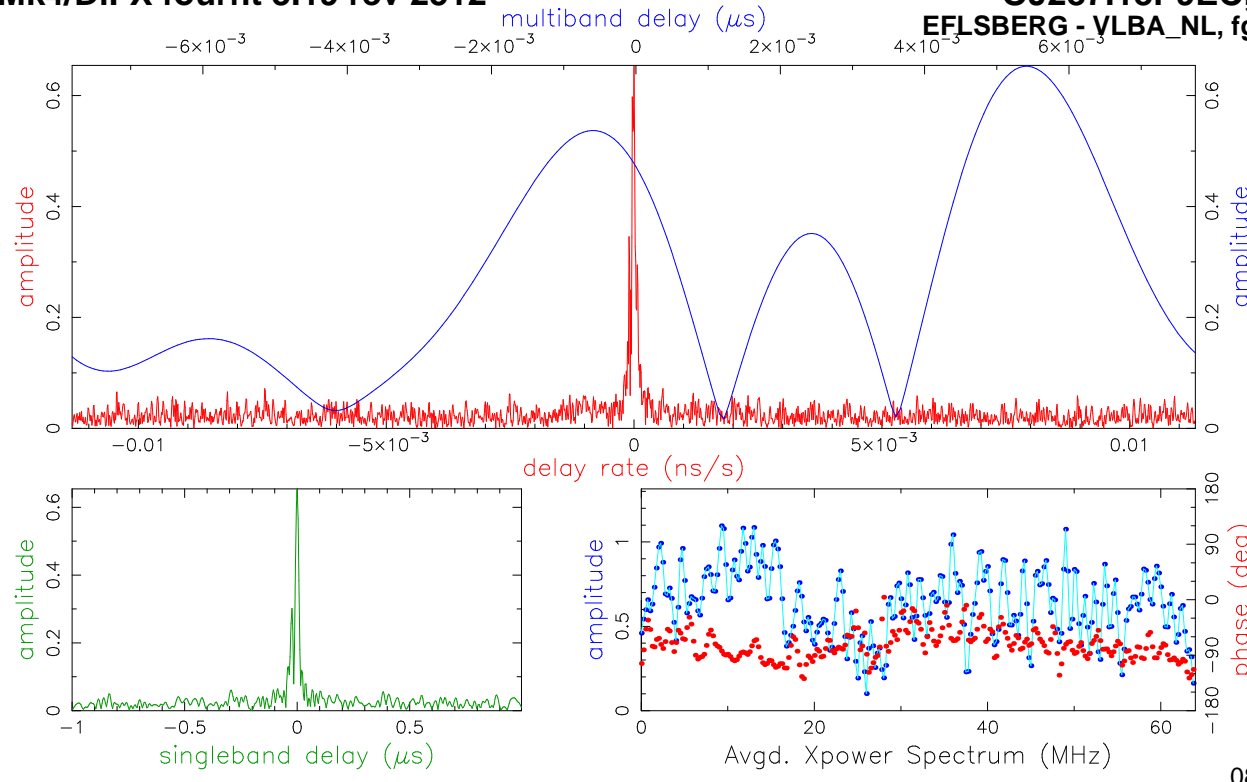
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-60.9	-70.0	-169.4	-93.9	-152.8	-42.8	-78.7	-61.2	Phase	-98.1
	0.2	0.3	0.4	0.3	0.2	0.1	0.1	0.1	Ampl.	0.2
	256.1	258.1	259.5	260.5	259.3	360.8	83.3	364.3	Sbd box	259.3
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.51048555782E+03		Apriori delay (usec)		-7.51049921127E+03		Resid mbdelay (usec)		-1.97155E-03	+/- 1.3E-04
Sband delay (usec)	-7.51049036127E+03		Apriori clock (usec)		-1.9192249E+01		Resid sbdelay (usec)		8.85000E-03	+/- 1.0E-03
Phase delay (usec)	-7.51049921443E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		-3.16279E-06	+/- 4.5E-07
Delay rate (us/s)	-1.40783370038E+00		Apriori rate (us/s)		-1.40783367092E+00		Resid rate (us/s)		-2.94625E-08	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		4.39269809188E-05		Resid phase (deg)		-98.1	+/- 13.8

ph/seg (deg) 72.4 33.2 Amplitude 0.145 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.4 57.9 Search (2048X32) 0.140 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 50.1 19.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 79.0 34.2 Inc. seg. avg. 0.188 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.192 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) 8652.532 2092.353 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bn.W.10.18P9EC

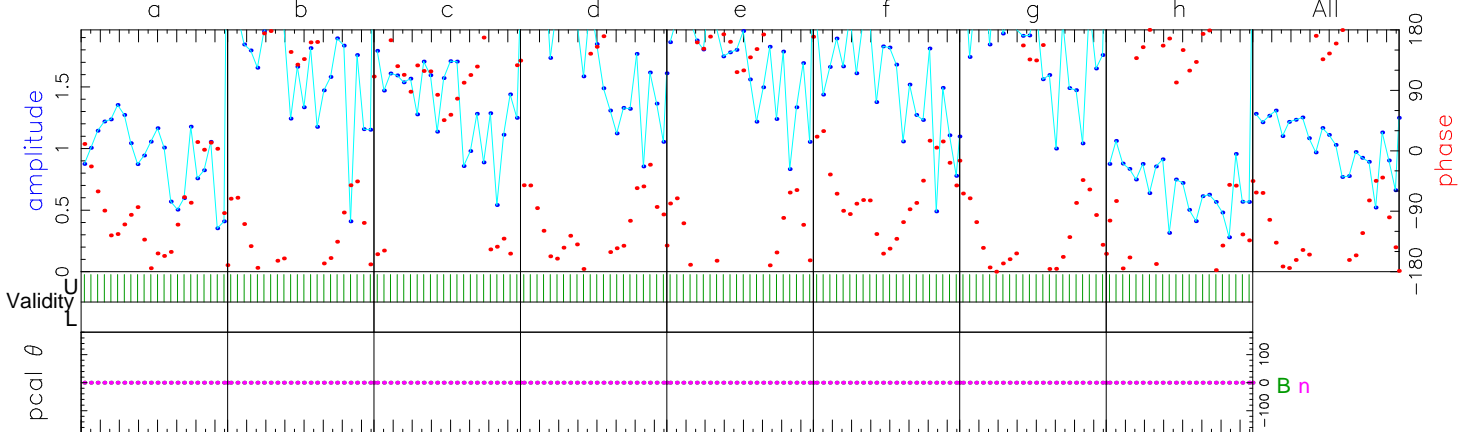


Fringe quality 3

SNR 37.5
Int time 439.212
Amp 0.654
Phase -142.2
PFD 0.0e+00
Delays (us)
SBD -0.000624
MBD 0.005379
Fringe rate (Hz)
-0.000295
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

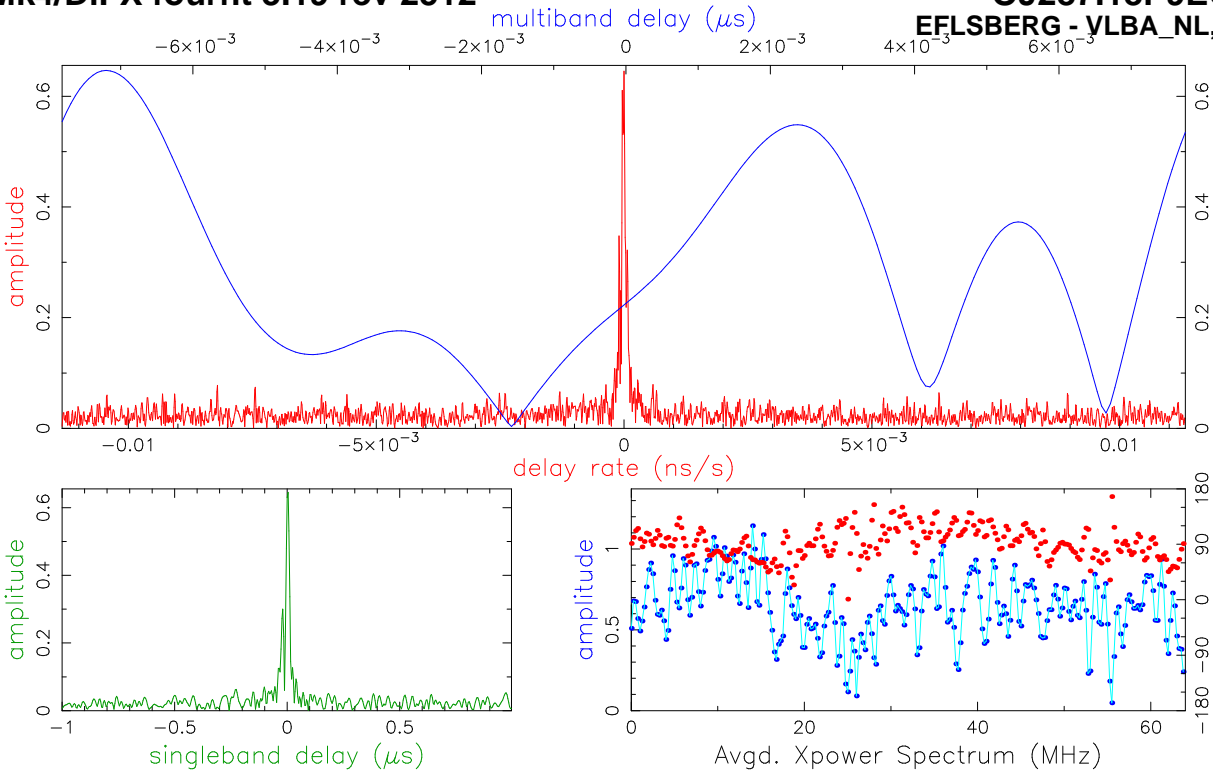
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120754
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.6	-151.1	131.1	-123.3	-166.0	-68.0	-146.3	-171.0	Phase	-142.2
	0.5	1.1	0.8	1.1	1.0	1.0	1.2	0.4	Ampl.	0.9
	253.3	256.2	257.2	257.4	258.1	257.5	256.5	251.9	Sbd box	256.8
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.51049383233E+03		Apriori delay (usec)		-7.51049921127E+03		Resid mbdelay (usec)		5.37894E-03	+/- 2.9E-05
Sband delay (usec)	-7.51049983502E+03		Apriori clock (usec)		-1.9192249E+01		Resid sbdelay (usec)		-6.23750E-04	+/- 2.3E-04
Phase delay (usec)	-7.51049921586E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		-4.58674E-06	+/- 9.9E-08
Delay rate (us/s)	-1.40783367435E+00		Apriori rate (us/s)		-1.40783367092E+00		Resid rate (us/s)		-3.42729E-09	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		4.39269809188E-05		Resid phase (deg)		-142.2	+/- 3.1

ph/seg (deg) 53.6 7.3 Search (2048X32) 0.638 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.5 12.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 53.7 4.3 Inc. seg. avg. 1.027 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.3 7.5 Inc. frq. avg. 0.885 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 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) 8652.532 2092.353 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bn.W.23.18P9EC simultaneous interpolator

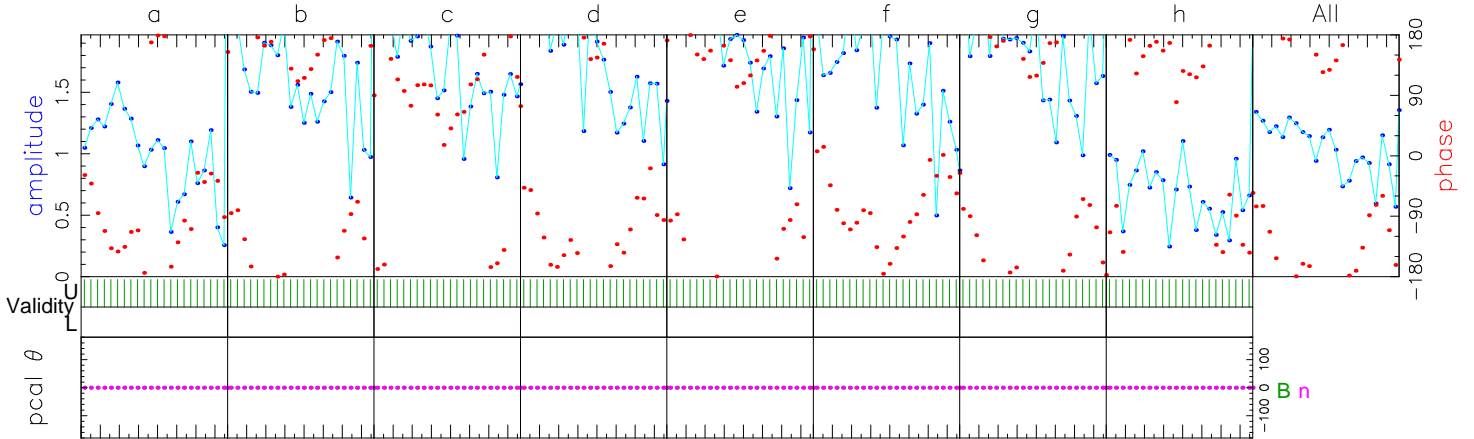


Fringe quality 3

SNR 37.6
Int time 439.212
Amp 0.656
Phase -156.0
PFD 0.0e+00
Delays (us)
SBD 0.002390
MBD -0.007268
Fringe rate (Hz)
-0.000269
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
2020:197:120759
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

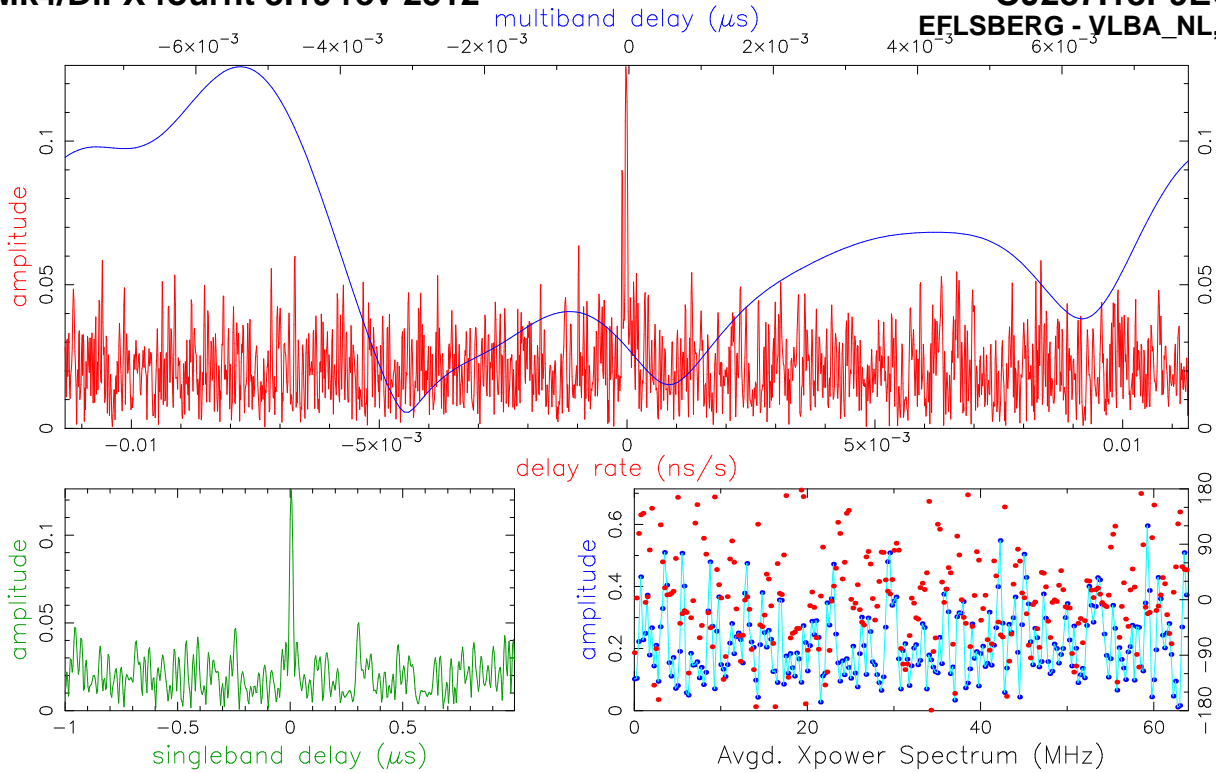


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-112.4	-167.3	117.7	-125.6	-179.2	-81.2	-161.2	175.9	Phase	-156.0
	0.6	1.0	1.1	1.1	1.1	1.0	1.1	0.4	Ampl.	0.9
	254.9	256.9	257.9	258.3	258.8	258.2	257.1	252.4	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.51049085393E+03		Apriori delay (usec)		-7.51049921127E+03		Resid mbdelay (usec)		-7.26766E-03	+/- 2.9E-05
Sband delay (usec)	-7.51049682152E+03		Apriori clock (usec)		-1.9192249E+01		Resid sbdelay (usec)		2.38975E-03	+/- 2.3E-04
Phase delay (usec)	-7.51049921630E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		-5.03137E-06	+/- 9.8E-08
Delay rate (us/s)	-1.40783367404E+00		Apriori rate (us/s)		-1.40783367092E+00		Resid rate (us/s)		-3.12474E-09	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		4.39269809188E-05		Resid phase (deg)		-156.0	+/- 3.0

	RMS	Theor.	Amplitude	0.656 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	53.0	7.3	Search (2048X32)	0.631	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	67.3	12.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	53.8	4.3	Inc. seg. avg.	1.032	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	56.3	7.5	Inc. frq. avg.	0.921	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) 8652.532 2092.353 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bn.W.43.18P9EC

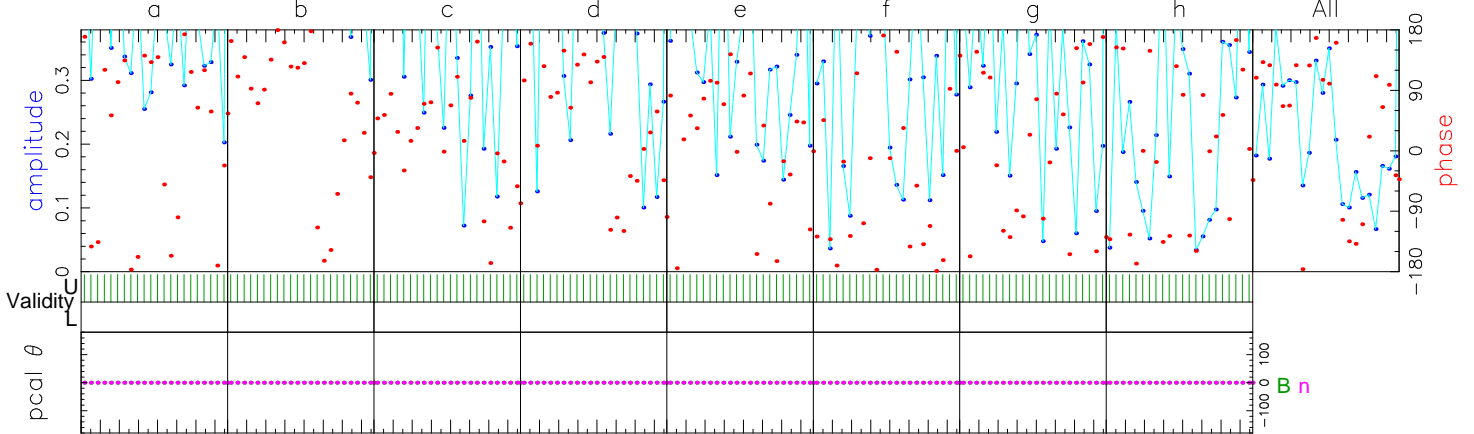


Fringe quality 0

SNR 7.2
Int time 439.212
Amp 0.126
Phase 116.1
PFD 1.4e-04
Delays (us)
SBD 0.004697
MBD -0.005370
Fringe rate (Hz)
-0.002215
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
2020:197:120803
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

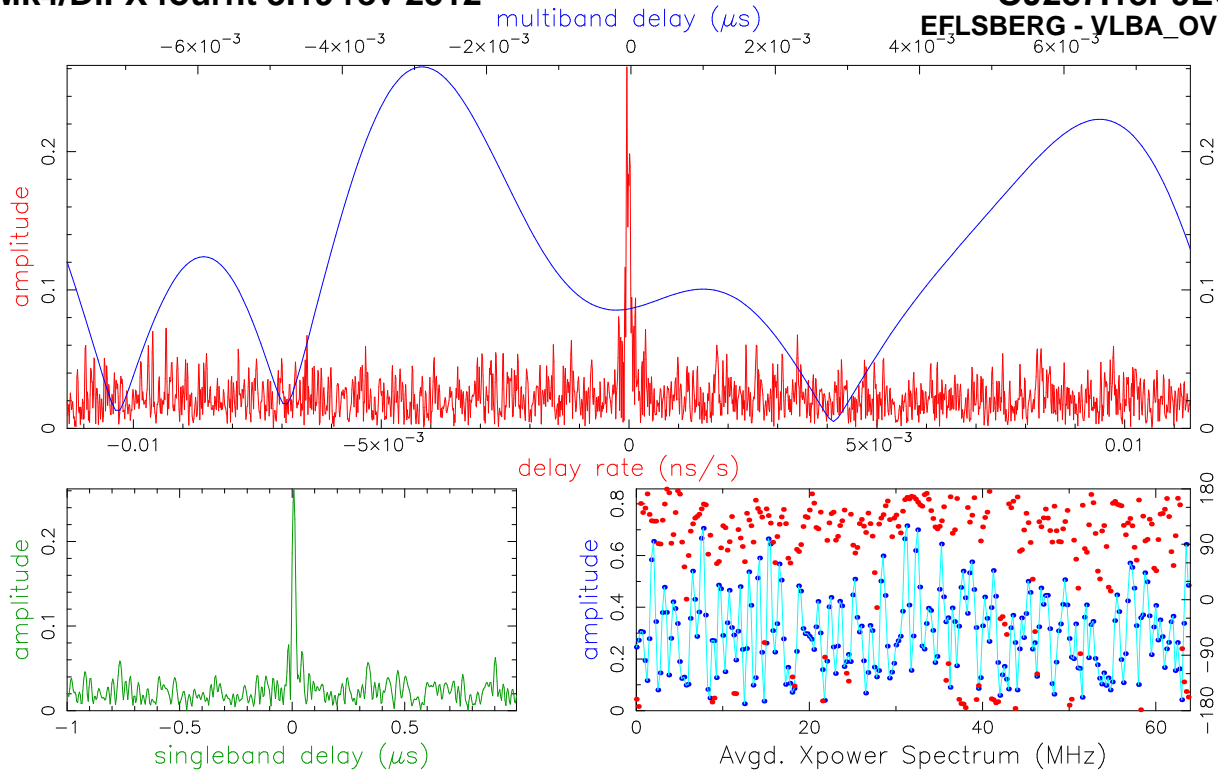
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.51048895654E+03									
Sband delay (usec)	-7.51049451402E+03									
Phase delay (usec)	-7.51049920753E+03									
Delay rate (us/s)	-1.40783369663E+00									
Total phase (deg)			94.8							
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)									116.1	+/- 15.8
PCal mode:	MANUAL	MANUAL								
PCal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

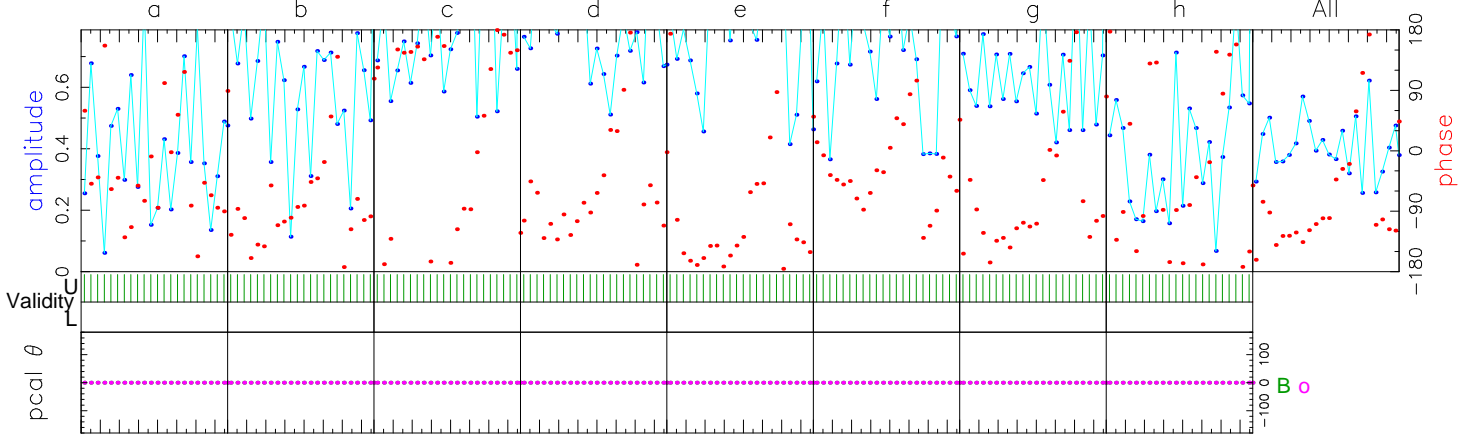
B: az 265.9 el 29.7 pa 42.5 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) 8652.532 2092.353 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bn.W.64.18P9EC



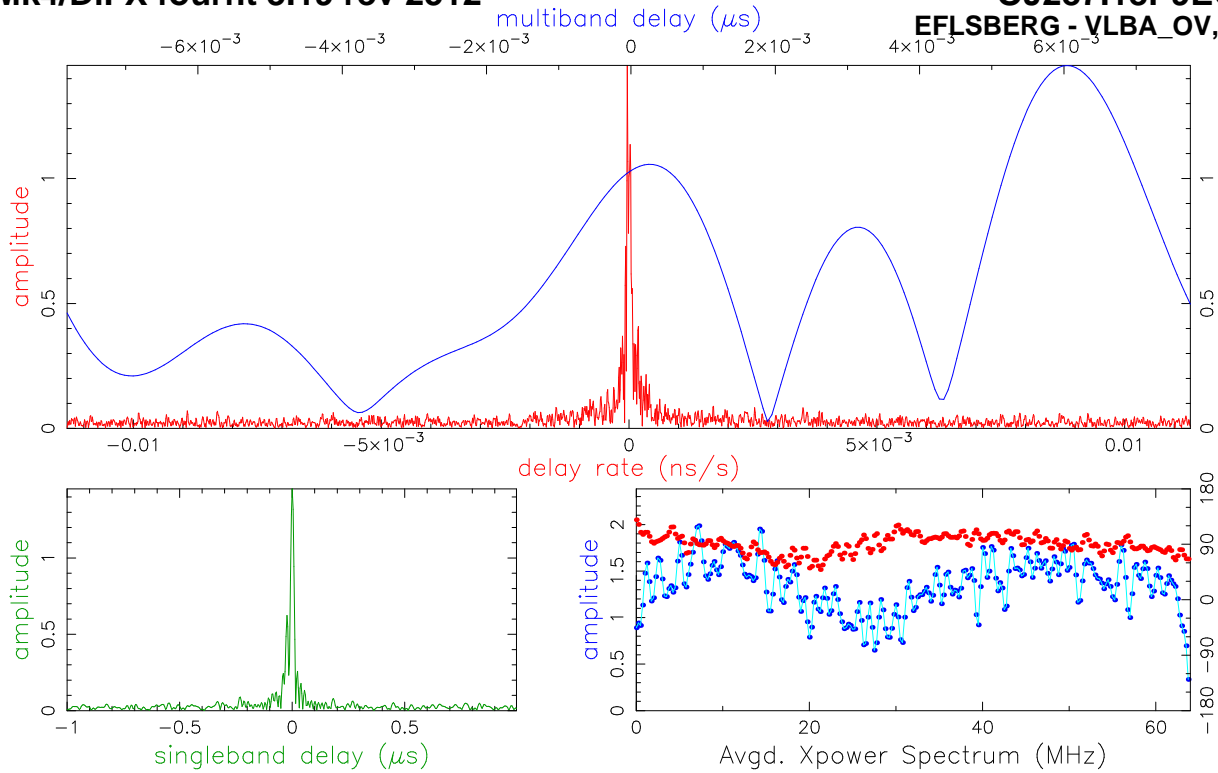
Fringe quality 7
SNR 15.0
Int time 439.713
Amp 0.262
Phase -111.2
PFD 2.5e-42
Delays (us)
SBD 0.006973
MBD -0.002940
Fringe rate (Hz)
-0.003373
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
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
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)	-2.87607462295E+03				-2.87608730747E+03					
Sband delay (usec)	-2.87608033472E+03				-7.0079451E+00					
Phase delay (usec)	-2.87608731105E+03				-4.0100001E-07					
Delay rate (us/s)	-1.83494236475E+00				-1.83494232560E+00					
Total phase (deg)			-350.7		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)										
pcal θ										

ph/seg (deg) 60.2 18.3 Search (2048X32) 0.243 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.3 31.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.5 10.8 Inc. seg. avg. 0.390 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 67.1 18.8 Inc. frq. avg. 0.377 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.12.18P9EC

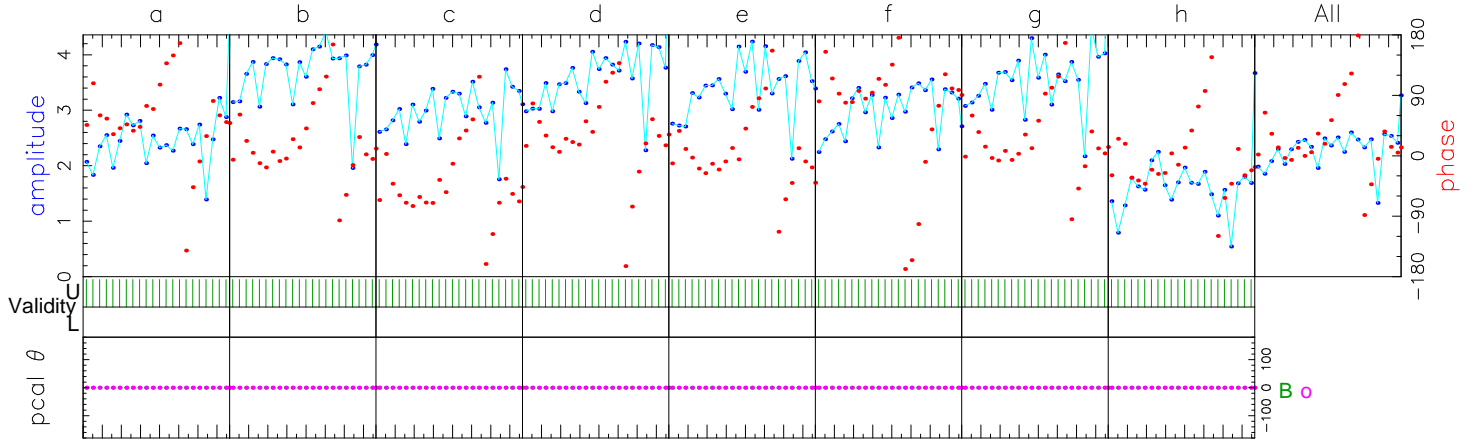


Fringe quality 1

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

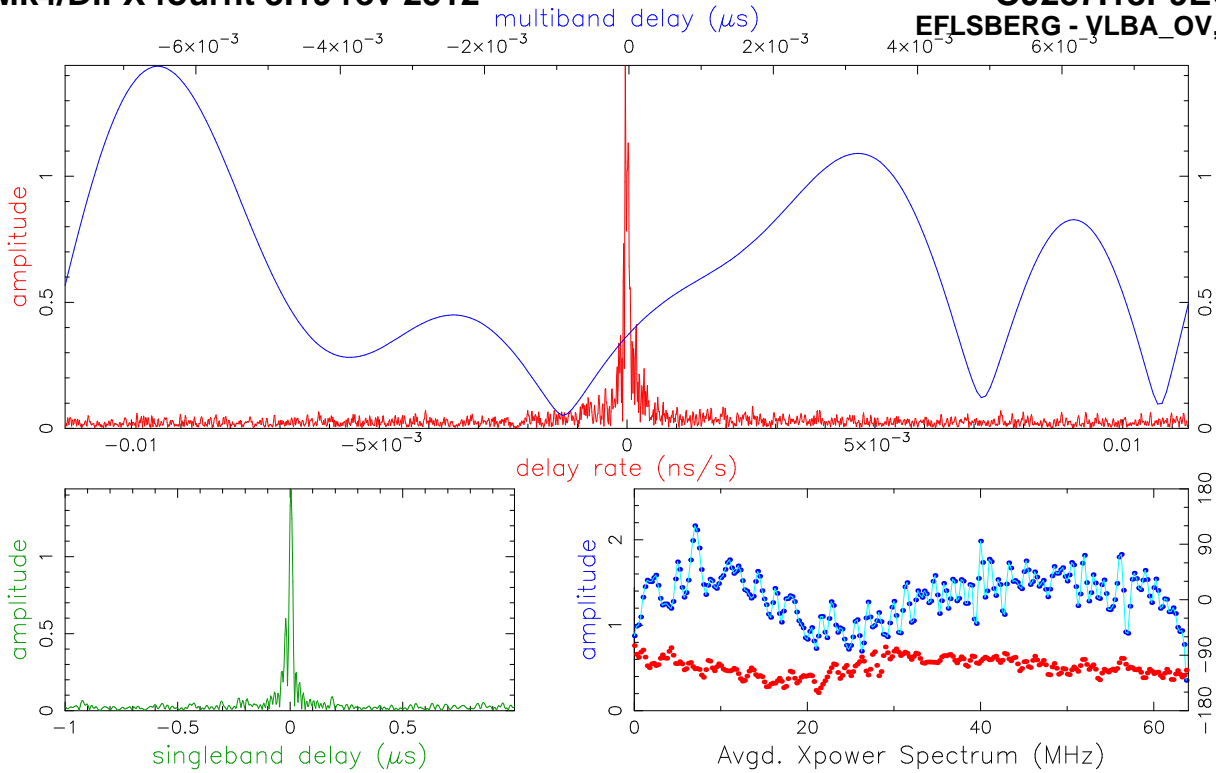
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	63.3	15.4	-46.3	39.8	3.2	107.6	20.6	-9.4	Phase	23.1
	1.5	2.3	1.9	2.2	2.2	1.9	2.3	1.1	Ampl.	1.9
	253.7	256.2	257.6	257.7	258.1	257.5	256.7	252.4	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.87608125527E+03		Apriori delay (usec)		-2.87608730747E+03		Resid mbdelay (usec)		6.05220E-03	+/- 1.3E-05
Sband delay (usec)	-2.87608710222E+03		Apriori clock (usec)		-7.0079451E+00		Resid sbdelay (usec)		2.05250E-04	+/- 1.0E-04
Phase delay (usec)	-2.87608730672E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		7.43865E-07	+/- 4.4E-08
Delay rate (us/s)	-1.83494236334E+00		Apriori rate (us/s)		-1.83494232560E+00		Resid rate (us/s)		-3.77371E-08	+/- 1.7E-10
Total phase (deg)			Apriori accel (us/s/s)		2.17072135213E-05		Resid phase (deg)		23.1	+/- 1.4

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

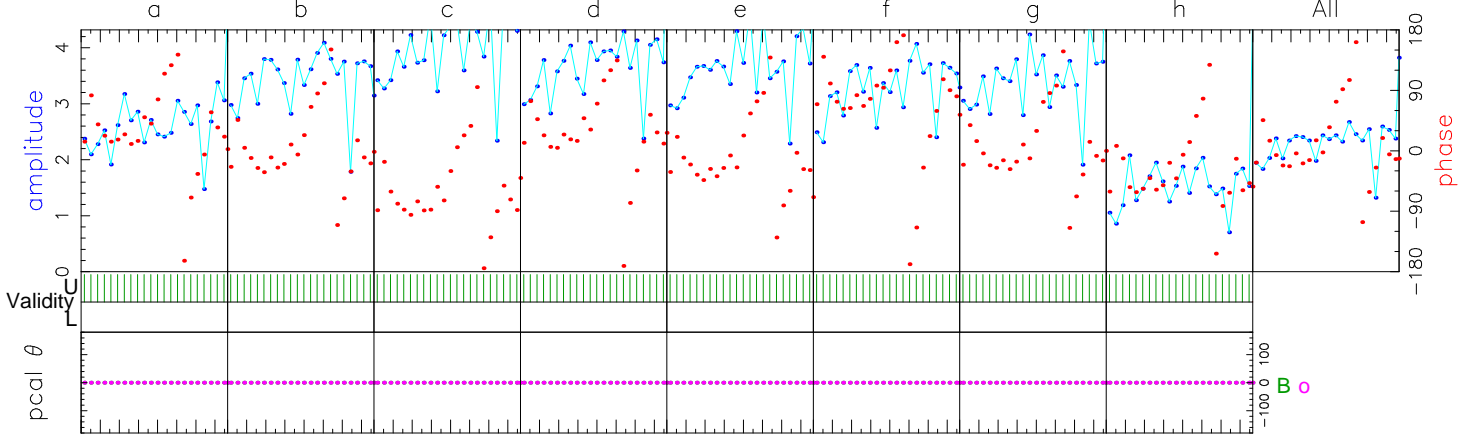


Fringe quality 1

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

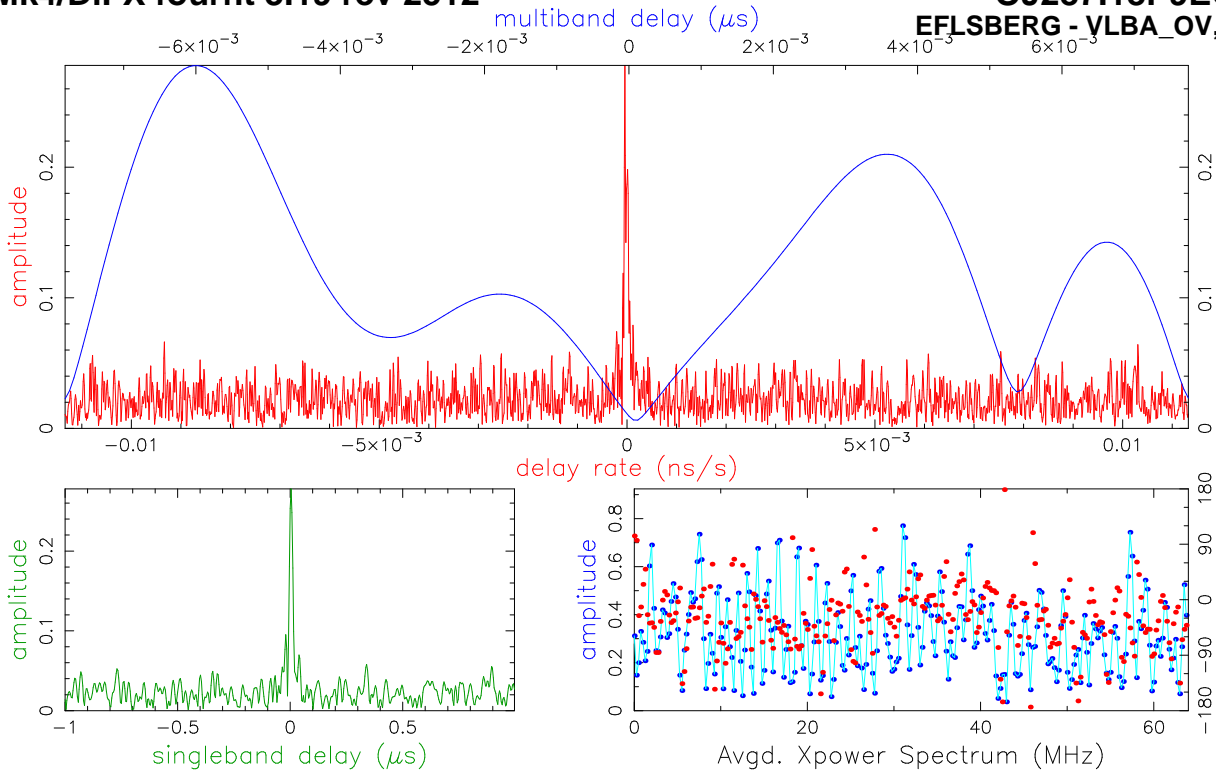


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	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
EFLSBERG - VLBA_OV, fgroup W, pol RL

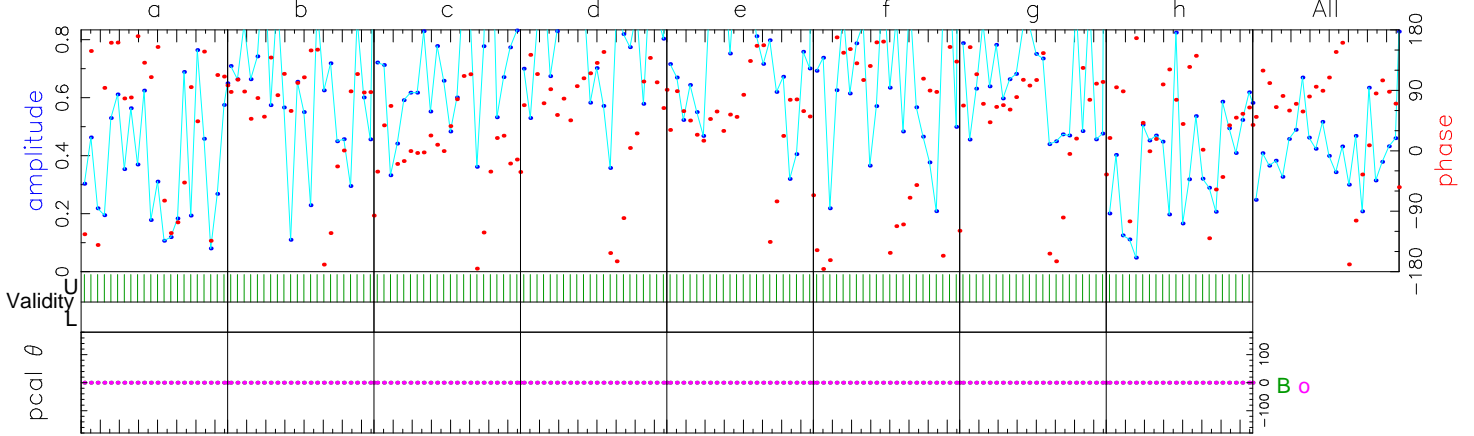


Fringe quality 7

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	131.0	96.6	9.0	94.5	61.9	171.9	86.8	54.0	Phase	84.7
B	0.2	0.4	0.4	0.5	0.5	0.4	0.4	0.2	Ampl.	0.4
o	254.7	257.3	258.0	259.0	259.1	258.1	257.1	253.1	Sbd box	257.9
B	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	
B: o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B: o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.87607769532E+03		Apriori delay (usec)		-2.87608730747E+03		Resid mbdelay (usec)		-6.01286E-03	+/- 6.8E-05
Sband delay (usec)	-2.87608364922E+03		Apriori clock (usec)		-7.0079451E+00		Resid sbdelay (usec)		3.65825E-03	+/- 5.4E-04
Phase delay (usec)	-2.87608730474E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		2.72975E-06	+/- 2.3E-07
Delay rate (us/s)	-1.83494236462E+00		Apriori rate (us/s)		-1.83494232560E+00		Resid rate (us/s)		-3.90174E-08	+/- 9.1E-10
Total phase (deg)			Apriori accel (us/s/s)		2.17072135213E-05		Resid phase (deg)		84.7	+/- 7.2

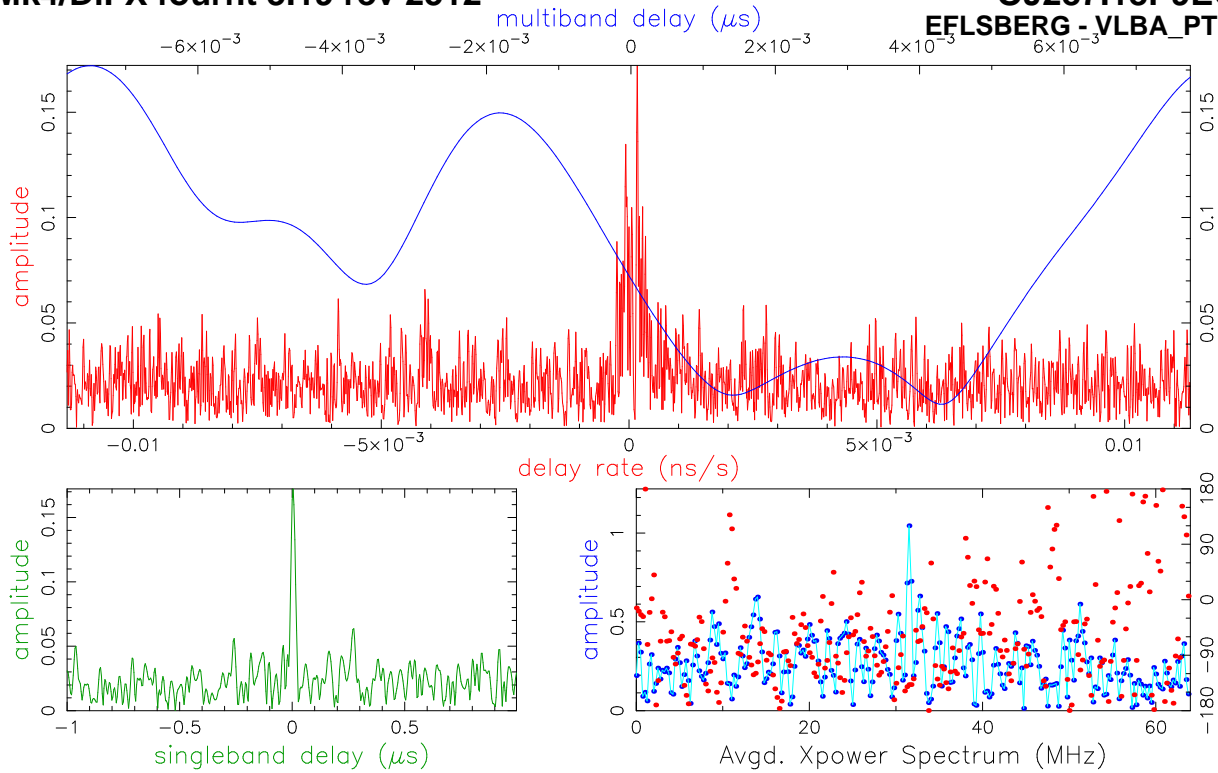
	RMS	Theor.	Amplitude	0.278 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	59.1	17.2	Search (2048X32)	0.257	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	62.7	30.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	53.5	10.2	Inc. seg. avg.	0.397	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	54.6	17.7	Inc. frq. avg.	0.376	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.76.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Bp
EFLSBERG - VLBA_PT, fgroup W, pol LL

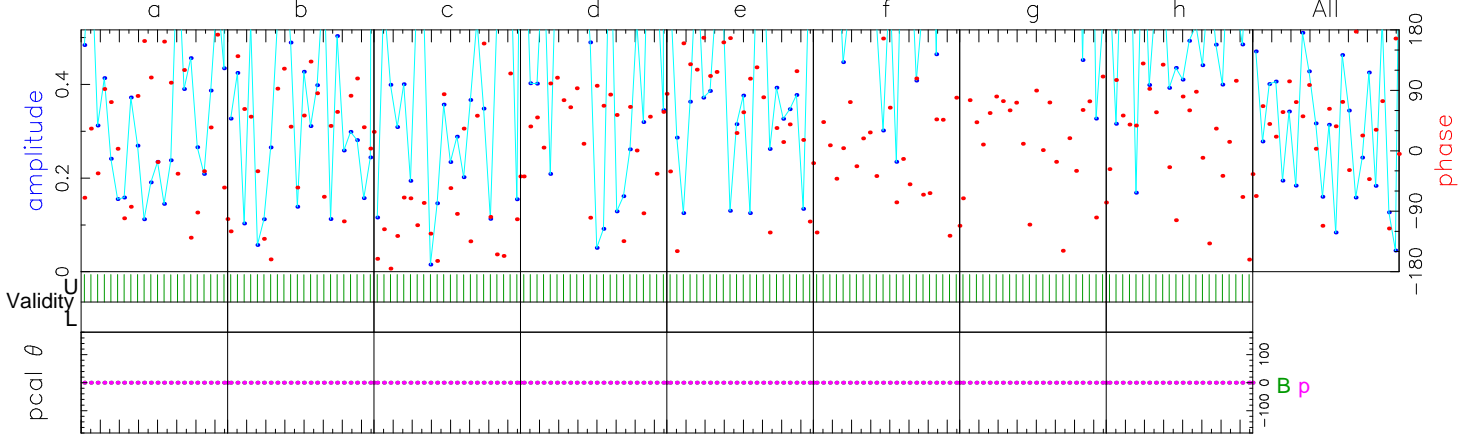


Fringe quality 9

SNR 9.9
Int time 438.703
Amp 0.172
Phase 41.5
PFD 2.5e-14
Delays (us)
SBD 0.003466
MBD -0.007464
Fringe rate (Hz) 0.014035
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
2020:197:120753
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

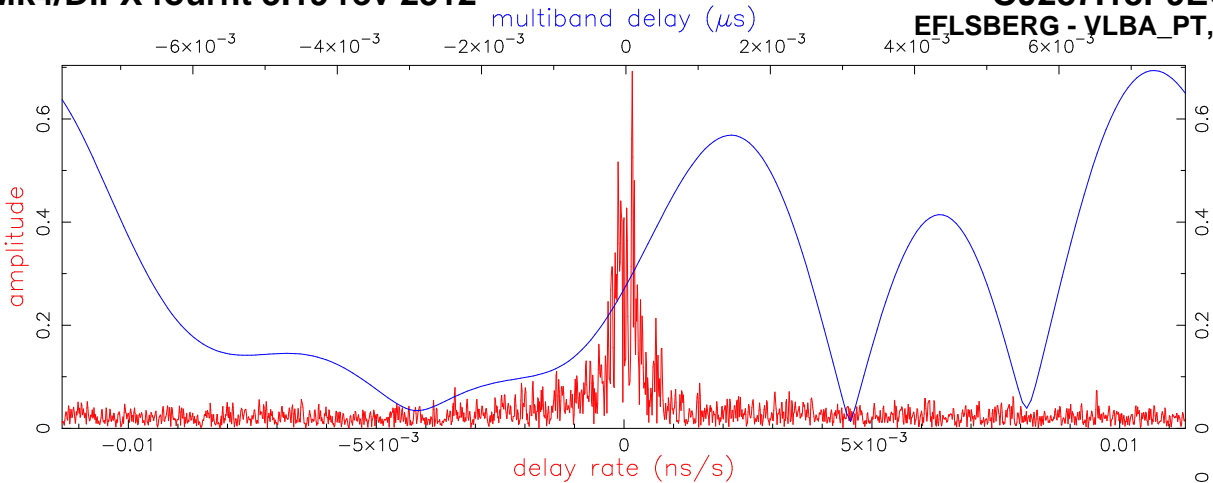


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.4	76.2	-133.5	42.9	107.4	-0.1	43.5	56.0	Phase	41.5
	0.1	0.1	0.2	0.3	0.2	0.4	0.6	0.2	Ampl.	0.2
	89.6	300.1	259.7	259.8	260.4	259.3	258.1	253.8	Sbd box	257.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	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)	-5.19594858852E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		-7.46360E-03	+/- 1.1E-04
Sband delay (usec)	-5.19595328392E+03		Apriori clock (usec)		-4.1999941E+00		Resid sbdelay (usec)		3.46600E-03	+/- 8.7E-04
Phase delay (usec)	-5.19595674858E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		1.33986E-06	+/- 3.7E-07
Delay rate (us/s)	-1.73882333862E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.62934E-07	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		41.5	+/- 11.6

	RMS	Theor.	Amplitude	0.172 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	73.8	27.9	Search (2048X32)	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	111.3	48.6	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	82.8	16.4	Inc. seg. avg.	0.269	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	93.7	28.7	Inc. frq. avg.	0.230	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

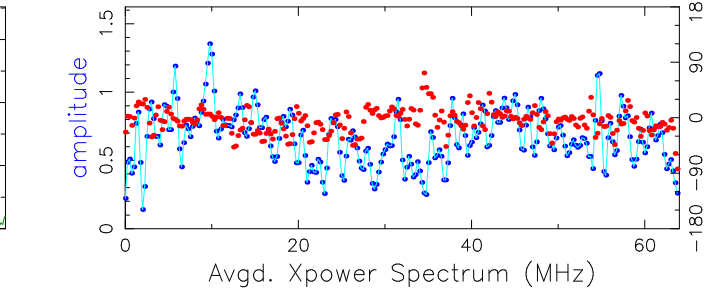
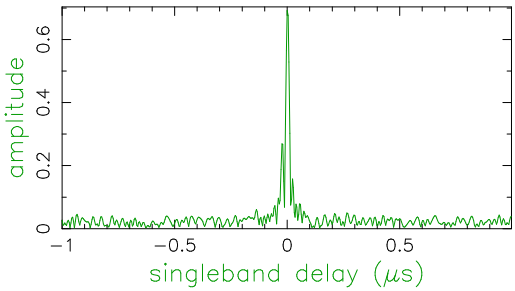
B: az 265.9 el 29.7 pa 42.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10654.966 2697.060 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bp.W.17.18P9EC



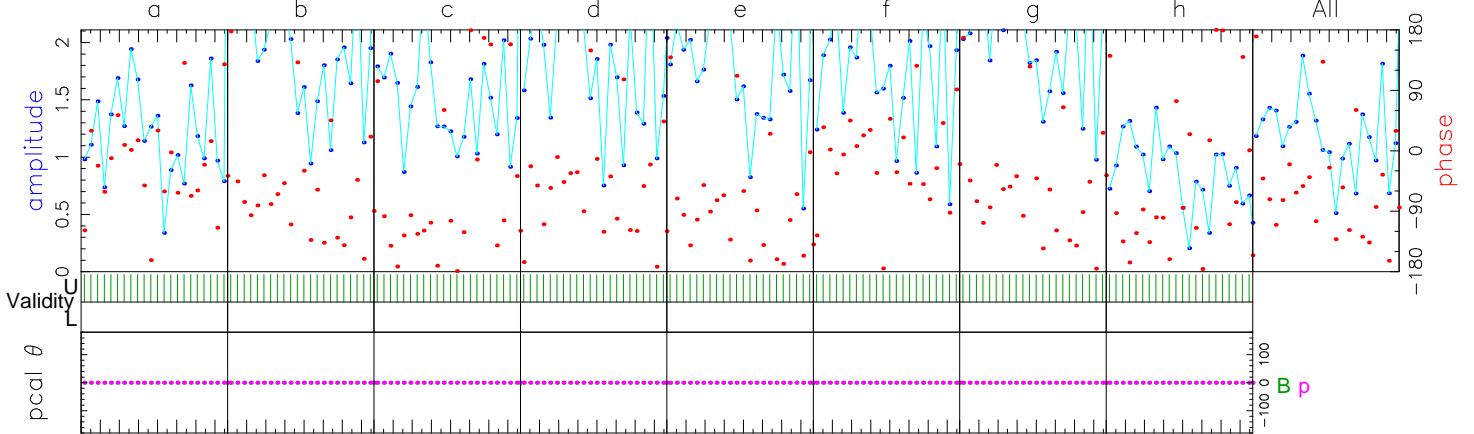
Fringe quality 3

SNR 40.3
Int time 438.704
Amp 0.704
Phase -73.2
PFD 0.0e+00
Delays (us)
SBD 0.001537
MBD 0.007397
Fringe rate (Hz)
0.013905
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



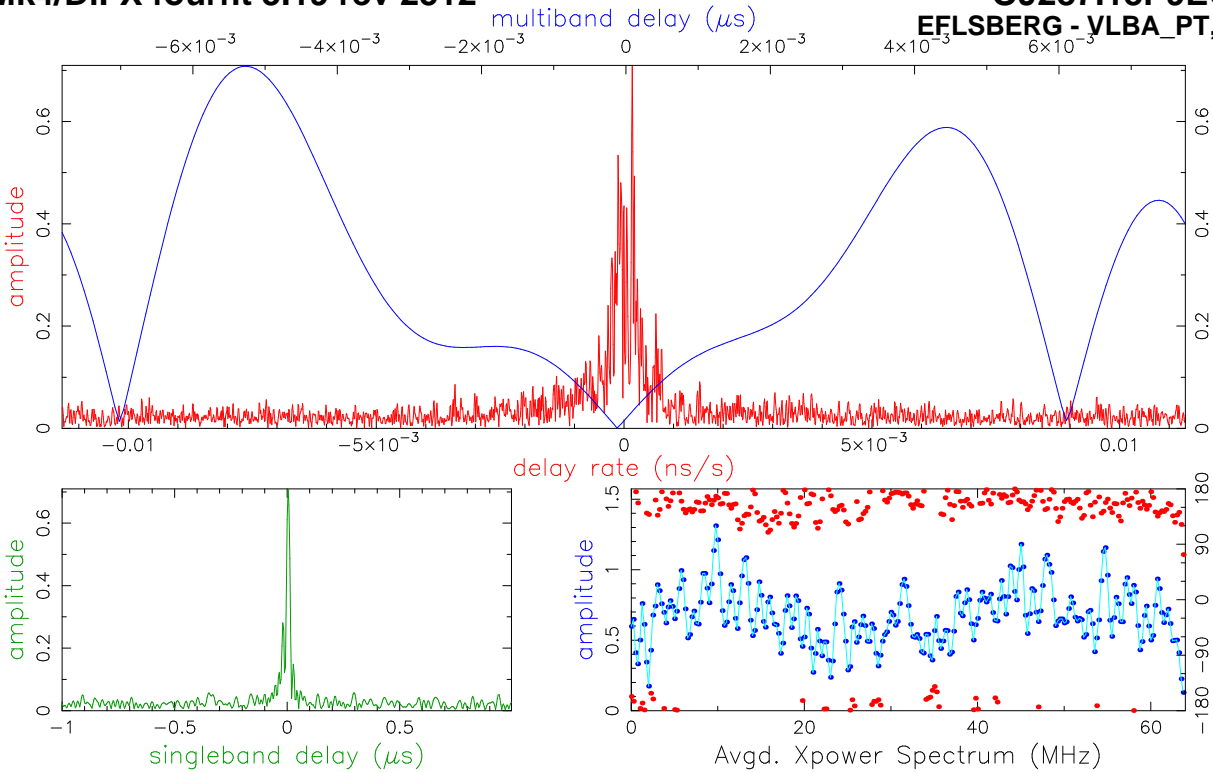
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120757
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-14.5	-81.2	-139.2	-56.2	-98.8	2.9	-74.9	-131.8		-73.2
	0.7	1.2	0.9	1.1	1.1	1.0	1.1	0.5		0.9
	253.9	256.7	257.8	257.8	258.2	257.9	256.9	252.8		257.4
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		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
B:p	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
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	-5.19594935255E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		7.39737E-03	+/- 2.7E-05
Sband delay (usec)	-5.19595521267E+03		Apriori clock (usec)		-4.1999941E+07		Resid sbdelay (usec)		1.53725E-03	+/- 2.1E-04
Phase delay (usec)	-5.19595675228E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		-2.35948E-06	+/- 9.2E-08
Delay rate (us/s)	-1.73882334013E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.61424E-07	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		-73.2	+/- 2.8

RMS Theor. Amplitude 0.704 +/- 0.017
 ph/seg (deg) 66.9 6.8 Search (2048X32) 0.661
 amp/seg (%) 84.1 11.9 Interp. 0.000
 ph/frq (deg) 54.8 4.0 Inc. seg. avg. 1.189
 amp/frq (%) 47.6 7.0 Inc. frq. avg. 0.945
 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

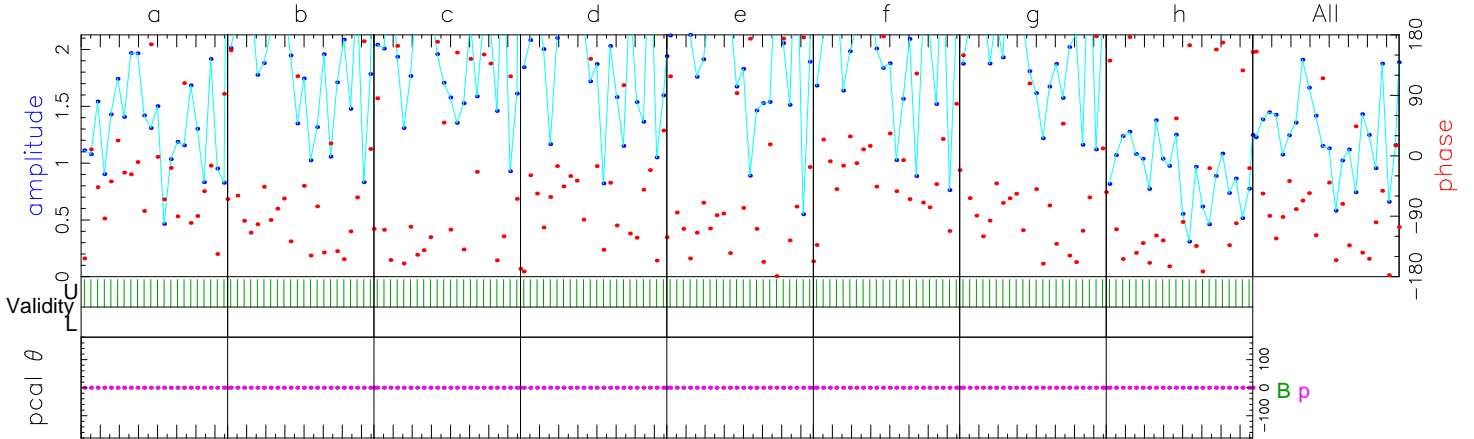


Fringe quality 3

SNR 40.6
Int time 438.704
Amp 0.710
Phase -89.0
PFD 0.0e+00
Delays (us)
SBD 0.004508
MBD -0.005241
Fringe rate (Hz)
0.013899
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

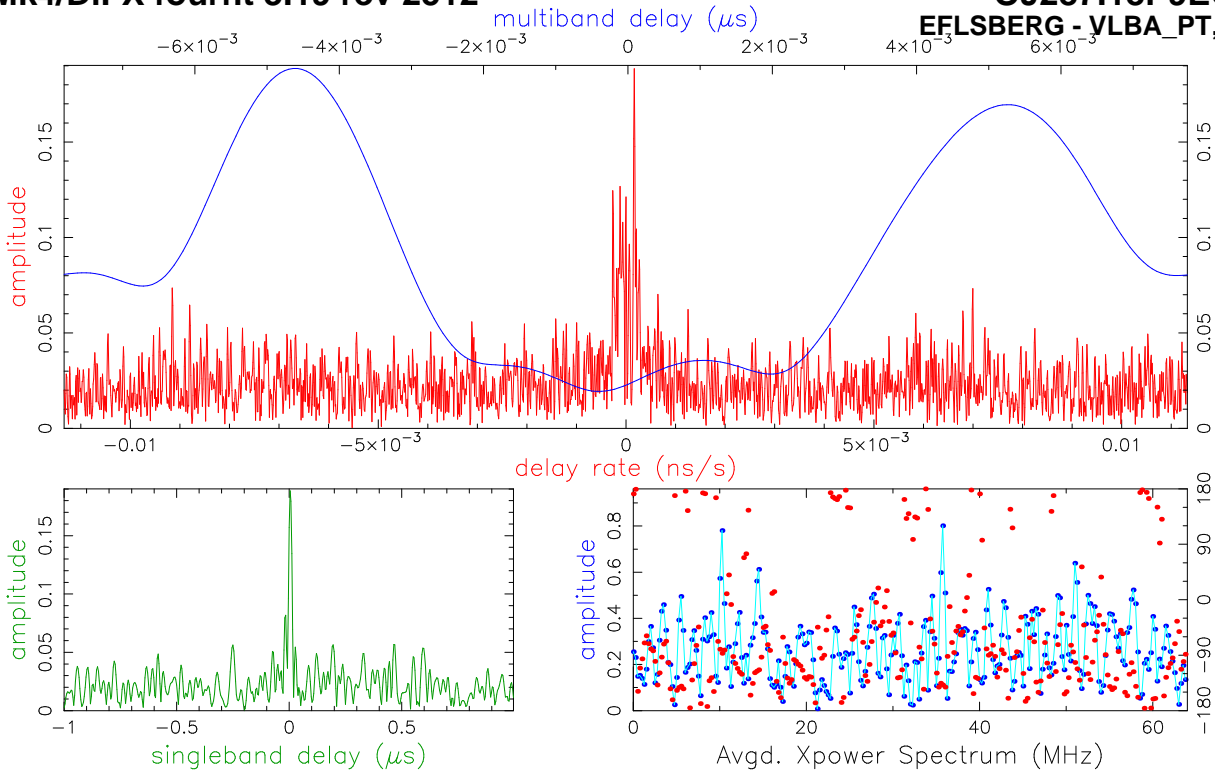
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-42.1	-96.7	-158.7	-59.4	-115.3	-14.4	-88.5	-150.3	Phase	-89.0
	0.7	1.2	1.1	1.1	1.1	1.2	1.1	0.6	Ampl.	1.0
	255.0	257.4	258.7	258.7	258.9	258.6	257.4	253.1	Sbd box	258.2
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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.19594636552E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		-5.24060E-03	+/- 2.7E-05
Sband delay (usec)	-5.19595224167E+03		Apriori clock (usec)		-4.1999941E-07		Resid sbdelay (usec)		4.50825E-03	+/- 2.1E-04
Phase delay (usec)	-5.19595675279E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		-2.87146E-06	+/- 9.1E-08
Delay rate (us/s)	-1.73882334020E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.61353E-07	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		-89.0	+/- 2.8

ph/seg (deg) 67.2 6.8 Search (2048X32) 0.673 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.0 11.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.8 4.0 Inc. seg. avg. 1.230 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.0 7.0 Inc. frq. avg. 1.000 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 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10654.966 2697.060 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bp.W.57.18P9EC

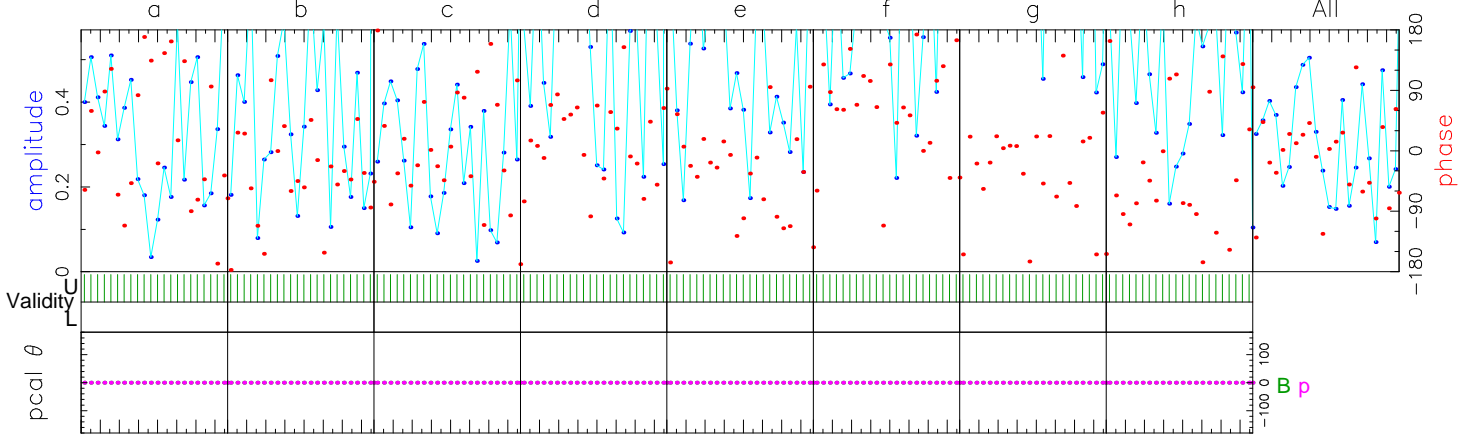


Fringe quality 9

SNR 10.9
Int time 438.703
Amp 0.190
Phase 1.1
PFD 5.9e-19
Delays (us)
SBD 0.005021
MBD -0.004558
Fringe rate (Hz) 0.013996
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

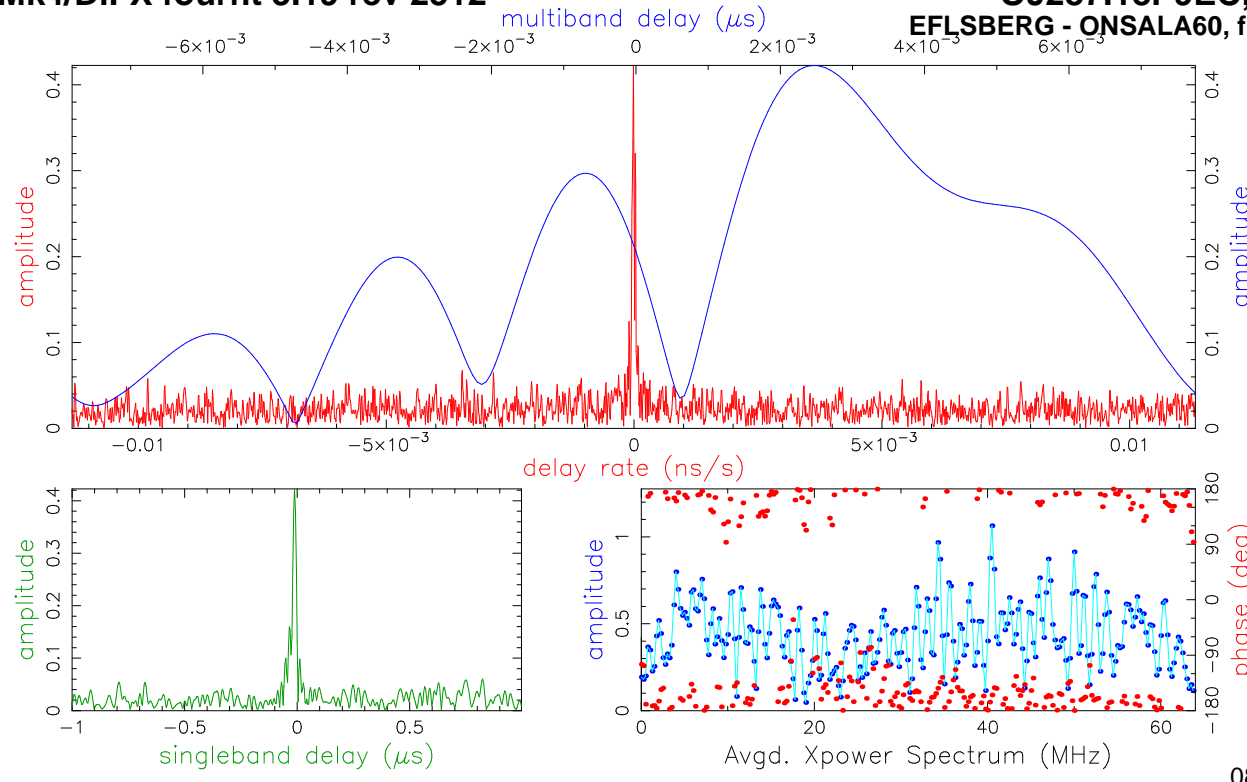
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120806
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-29.3	-16.3	-12.3	23.7	-25.4	84.6	-10.0	-86.4	Phase	1.1
	0.1	0.2	0.1	0.4	0.2	0.3	0.6	0.2	Ampl.	0.2
	88.5	299.7	377.7	258.8	259.7	258.7	257.7	253.2	Sbd box	258.3
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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-5.19594568336E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		-4.55844E-03	+/- 1.0E-04
Sband delay (usec)	-5.19595172942E+03		Apriori clock (usec)		-4.1999941E+07		Resid sbdelay (usec)		5.02050E-03	+/- 7.9E-04
Phase delay (usec)	-5.19595674988E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		3.46425E-08	+/- 3.4E-07
Delay rate (us/s)	-1.73882333908E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.62475E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		1.1	+/- 10.5

ph/seg (deg) 62.6 25.2 Search (2048X32) 0.180 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 88.4 44.0 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 53.8 14.9 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 87.9 26.0 Inc. frq. avg. 0.247 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 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10654.966 2697.060 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bp.W.74.18P9EC

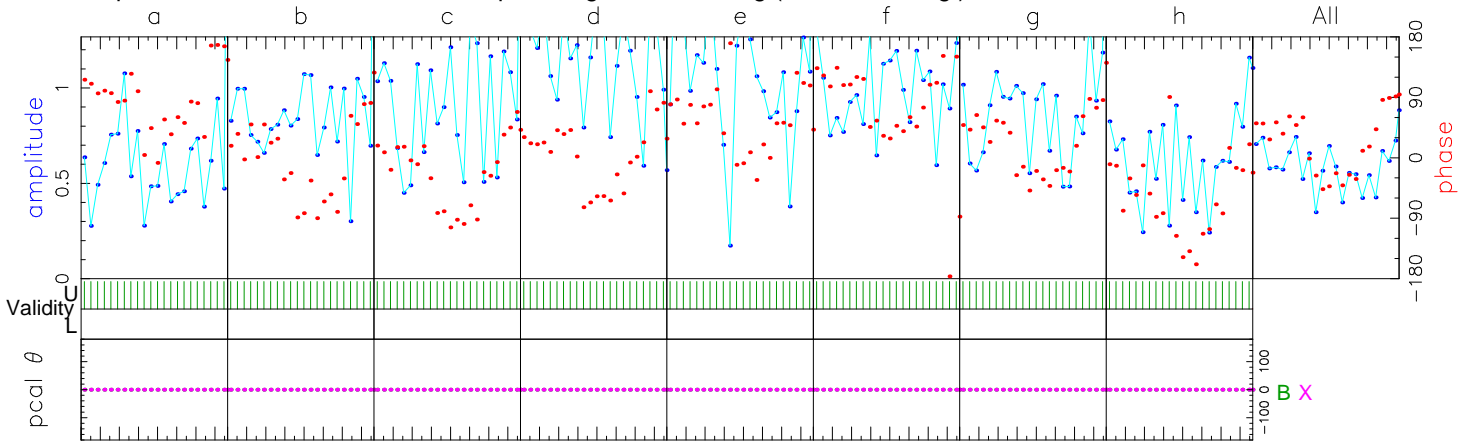


Fringe quality 5

SNR 24.2
Int time 439.584
Amp 0.423
Phase 27.3
PFD 0.0e+00
Delays (us)
SBD -0.011688
MBD 0.002469
Fringe rate (Hz)
-0.001336
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

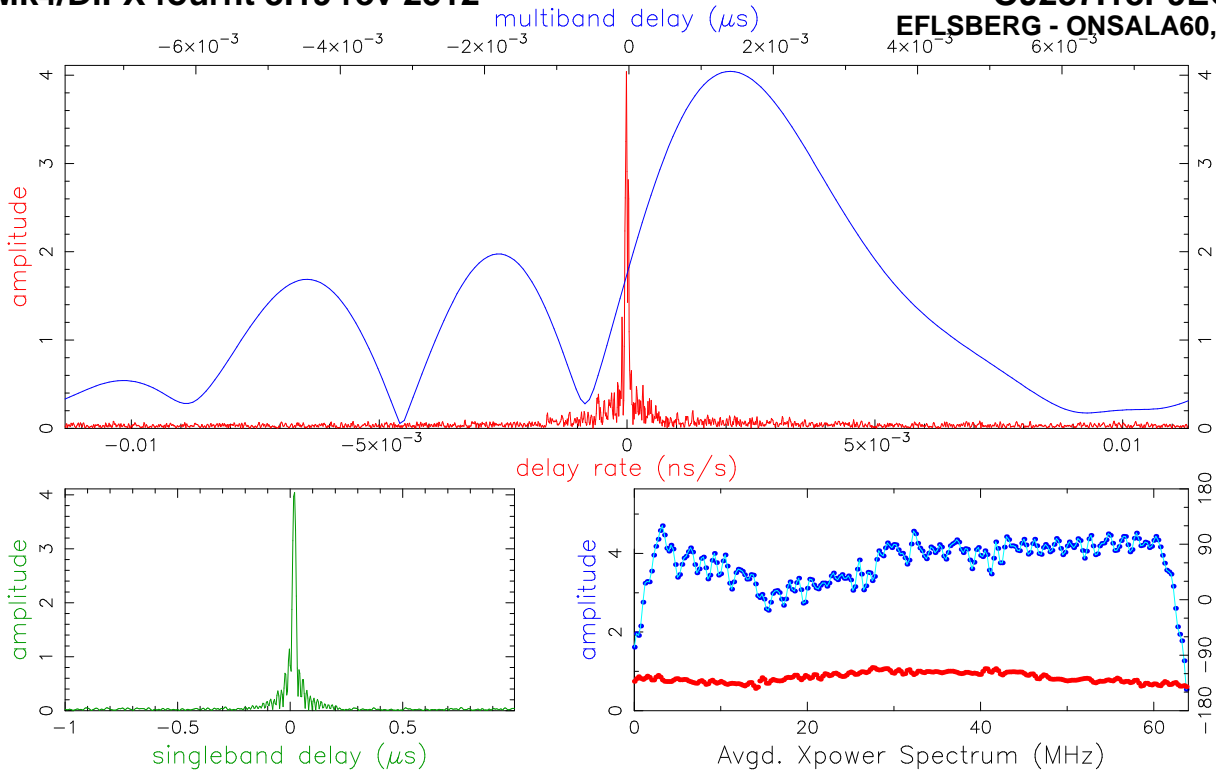
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120752
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	90.3	-7.0	-24.0	6.3	56.2	92.9	26.4	-55.2	Phase	27.3
	0.4	0.5	0.6	0.8	0.8	0.7	0.6	0.4	Ampl.	0.6
	250.7	252.4	254.4	254.2	254.0	253.8	252.7	248.2	Sbd box	254.0
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06780379265E+03		Apriori delay (usec)		1.06781694867E+03		Resid mbdelay (usec)		2.46897E-03	+/- 4.5E-05
Sband delay (usec)	1.06780526017E+03		Apriori clock (usec)		-2.7648609E+01		Resid sbdelay (usec)		-1.16885E-02	+/- 3.6E-04
Phase delay (usec)	1.06781694955E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		8.79396E-07	+/- 1.5E-07
Delay rate (us/s)	-1.08886343789E-01		Apriori rate (us/s)		-1.08886328280E-01		Resid rate (us/s)		-1.55089E-08	+/- 6.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-8.55554845006E-06		Resid phase (deg)		27.3	+/- 4.7

ph/seg (deg) 44.8 11.3 Search (2048X32) 0.400 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 46.5 19.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.0 6.7 Inc. seg. avg. 0.574 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.6 11.7 Inc. frq. avg. 0.599 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 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) 650.353 -836.860 simultaneous interpolator

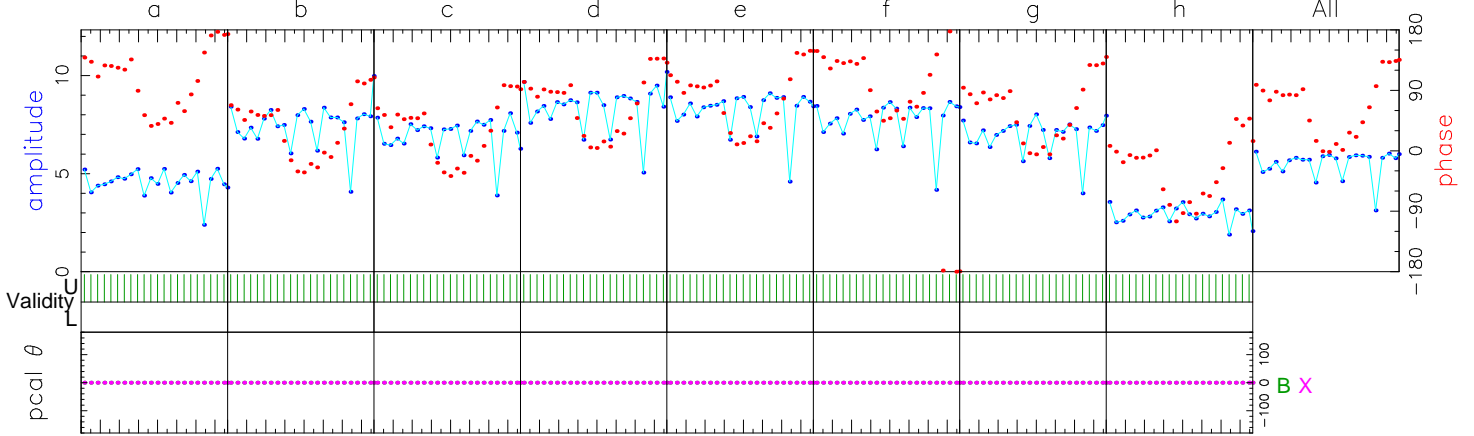


Fringe quality 3

SNR 235.7
Int time 439.584
Amp 4.112
Phase 64.4
PFD 0.0e+00
Delays (us)
SBD 0.017924
MBD 0.001360
Fringe rate (Hz)
-0.001303
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

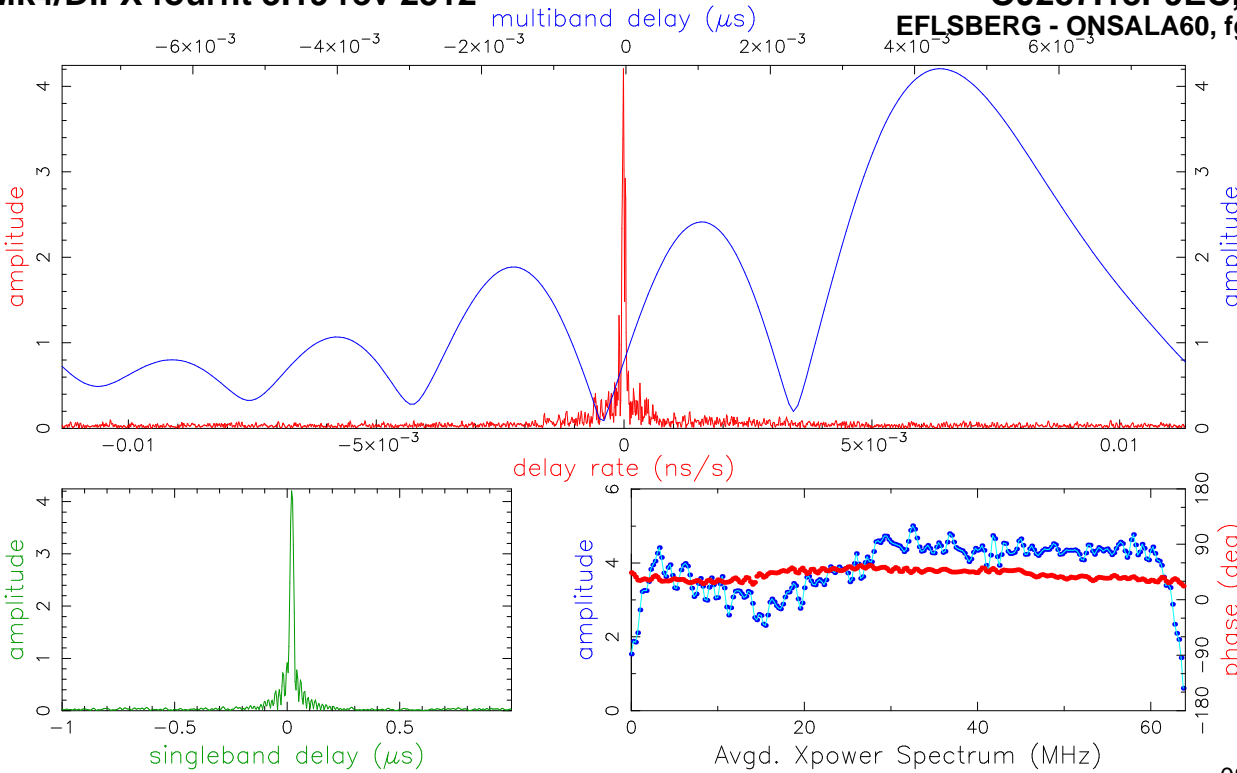
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120757
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	105.2	34.6	29.3	69.4	76.6	111.5	60.7	-27.9	Phase	64.4
	3.3	5.4	5.2	6.2	6.0	5.6	5.1	2.1	Ampl.	4.9
	258.1	260.6	262.0	261.5	261.6	261.7	260.4	255.5	Sbd box	261.6
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06783393346E+03		Apriori delay (usec)		1.06781694867E+03		Resid mbdelay (usec)		1.35979E-03	+/- 4.6E-06
Sband delay (usec)	1.06783487242E+03		Apriori clock (usec)		-2.7648609E+01		Resid sbdelay (usec)		1.79237E-02	+/- 3.7E-05
Phase delay (usec)	1.06781695075E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		2.07619E-06	+/- 1.6E-08
Delay rate (us/s)	-1.08886343404E-01		Apriori rate (us/s)		-1.08886328280E-01		Resid rate (us/s)		-1.51235E-08	+/- 6.2E-11
Total phase (deg)	49.5		Apriori accel (us/s/s)		-8.55554845006E-06		Resid phase (deg)		64.4	+/- 0.5

ph/seg (deg) 43.4 1.2 Search (2048X32) 3.883 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 37.7 2.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.5 0.7 Inc. seg. avg. 5.509 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.1 1.2 Inc. frq. avg. 4.871 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 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) 650.353 -836.860 simultaneous interpolator

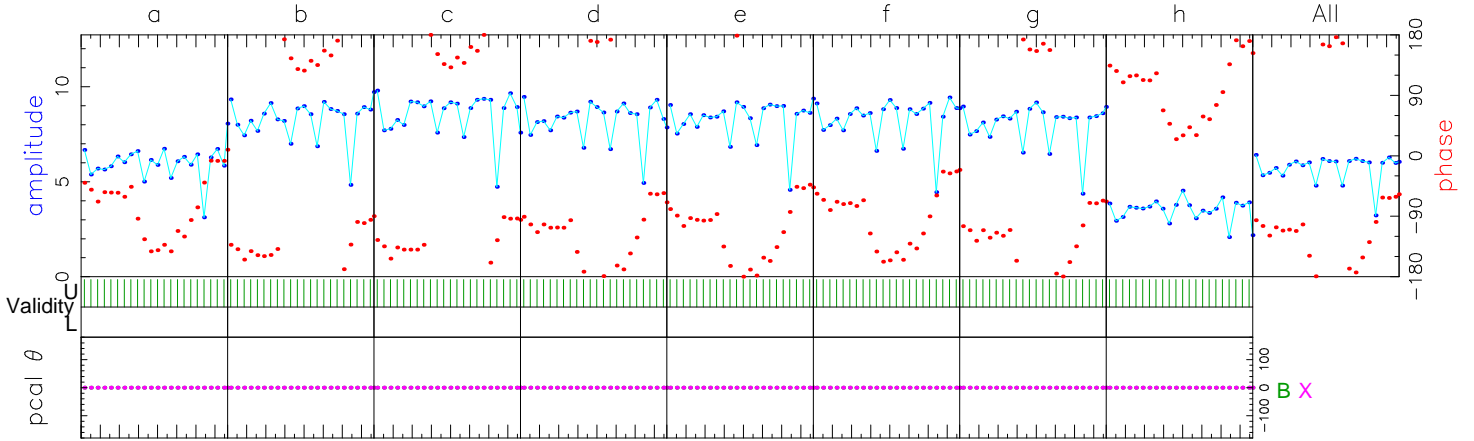


Fringe quality 2

SNR 243.3
Int time 439.584
Amp 4.244
Phase -129.7
PFD 0.0e+00
Delays (us)
SBD 0.020744
MBD 0.004370
Fringe rate (Hz)
-0.001300
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

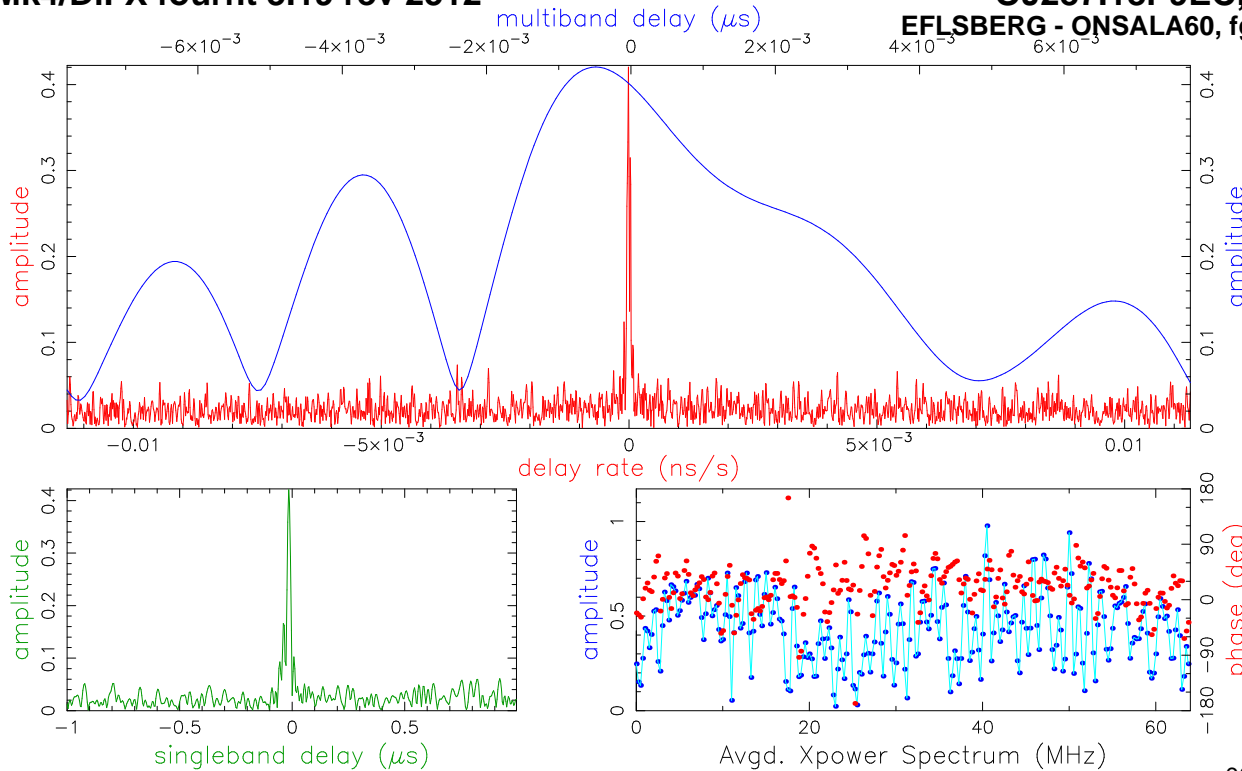
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	-75.5	-166.1	-159.8	-124.6	-114.8	-91.9	-137.1	96.6	Phase	-129.7
	4.3	6.1	6.3	6.1	6.1	6.1	5.8	2.5	Ampl.	5.4
	259.3	261.3	262.7	262.4	262.2	262.3	261.1	256.1	Sbd box	262.3
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06783694408E+03		Apriori delay (usec)		1.06781694867E+03		Resid mbdelay (usec)		4.37041E-03	+/- 4.5E-06
Sband delay (usec)	1.06783769242E+03		Apriori clock (usec)		-2.7648609E+01		Resid sbdelay (usec)		2.07438E-02	+/- 3.5E-05
Phase delay (usec)	1.06781694449E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-4.18389E-06	+/- 1.5E-08
Delay rate (us/s)	-1.08886343369E-01		Apriori rate (us/s)		-1.08886328280E-01		Resid rate (us/s)		-1.50887E-08	+/- 6.0E-11
Total phase (deg)	215.4		Apriori accel (us/s/s)		-8.55554845006E-06		Resid phase (deg)		-129.7	+/- 0.5

ph/seg (deg) 43.3 1.1 Search (2048X32) 4.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 38.6 2.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.2 0.7 Inc. seg. avg. 5.725 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.1 1.2 Inc. frq. avg. 5.409 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 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) 650.353 -836.860 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BX.W.58.18P9EC

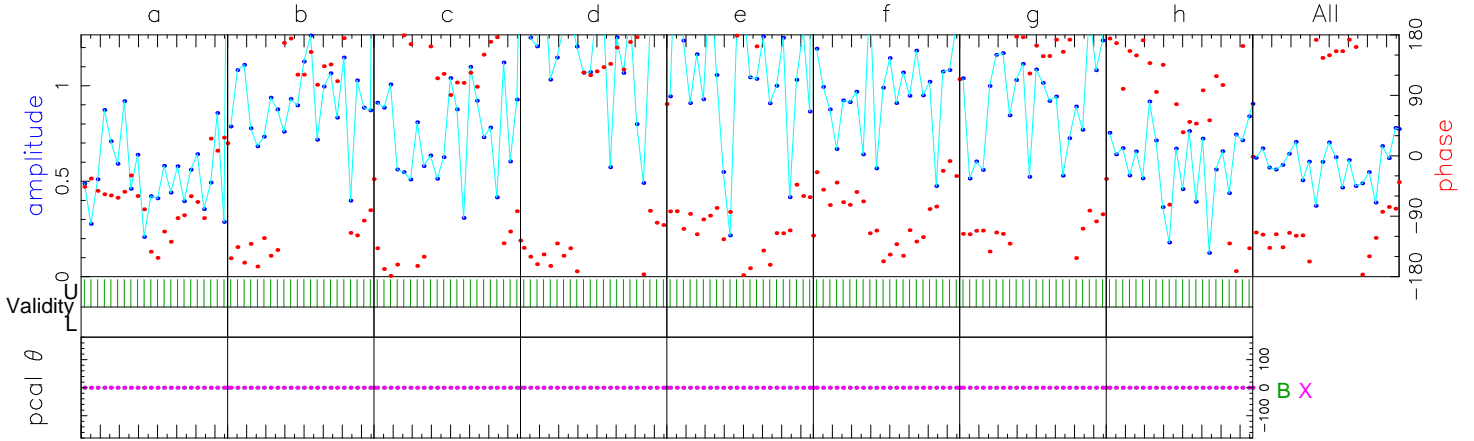


Fringe quality 5

SNR 24.2
Int time 439.584
Amp 0.422
Phase -142.7
PFD 0.0e+00
Delays (us)
SBD -0.014817
MBD -0.000461
Fringe rate (Hz)
-0.001309
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

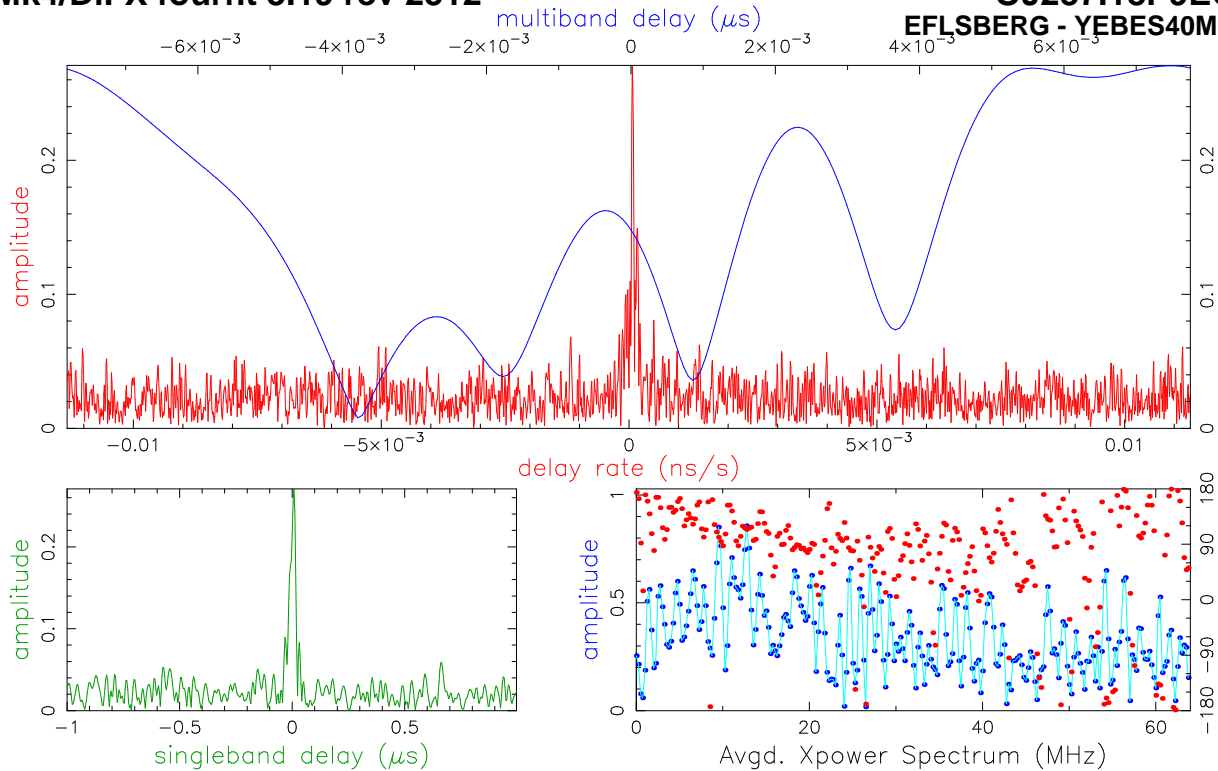


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.7	-173.8	169.5	-168.3	-111.7	-83.8	-144.0	133.1		-142.7
	0.4	0.6	0.5	0.8	0.8	0.7	0.6	0.4		0.6
	249.2	251.8	253.7	253.4	253.3	253.1	251.9	247.6		253.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
B	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	1.06780086246E+03		Apriori delay (usec)		1.06781694867E+03		Resid mbdelay (usec)		-4.61214E-04	+/- 4.5E-05
Sband delay (usec)	1.06780213117E+03		Apriori clock (usec)		-2.7648609E+01		Resid sbdelay (usec)		-1.48175E-02	+/- 3.6E-04
Phase delay (usec)	1.06781694407E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-4.60177E-06	+/- 1.5E-07
Delay rate (us/s)	-1.08886343473E-01		Apriori rate (us/s)		-1.08886328280E-01		Resid rate (us/s)		-1.51929E-08	+/- 6.0E-10
Total phase (deg)	202.4		Apriori accel (us/s/s)		-8.55554845006E-06		Resid phase (deg)		-142.7	+/- 4.7

	RMS	Theor.	Amplitude	0.422 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	44.0	11.3	Search (2048X32)	0.403	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	45.0	19.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	60.5	6.7	Inc. seg. avg.	0.573	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	56.8	11.7	Inc. frq. avg.	0.596	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

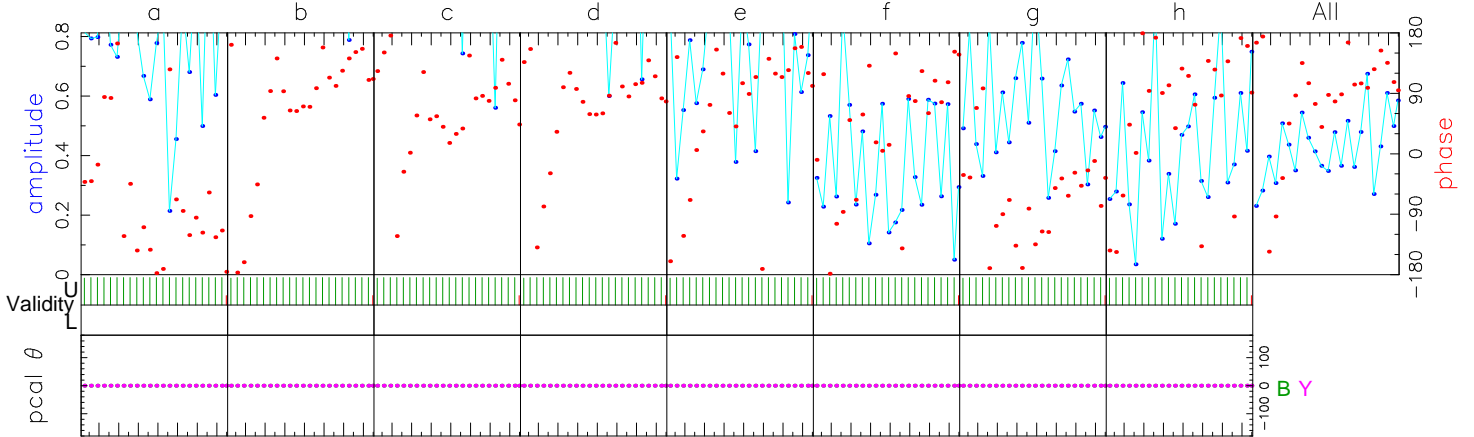
B: az 265.9 el 29.7 pa 42.5 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) 650.353 -836.860 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BX.W.75.18P9EC



Fringe quality 7
 SNR 15.4
 Int time 434.153
 Amp 0.271
 Phase 109.6
 PFD 7.0e-45
 Delays (us)
 SBD 0.007430
 MBD 0.007421
 Fringe rate (Hz) 0.005907
 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
 2020:197:120756
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

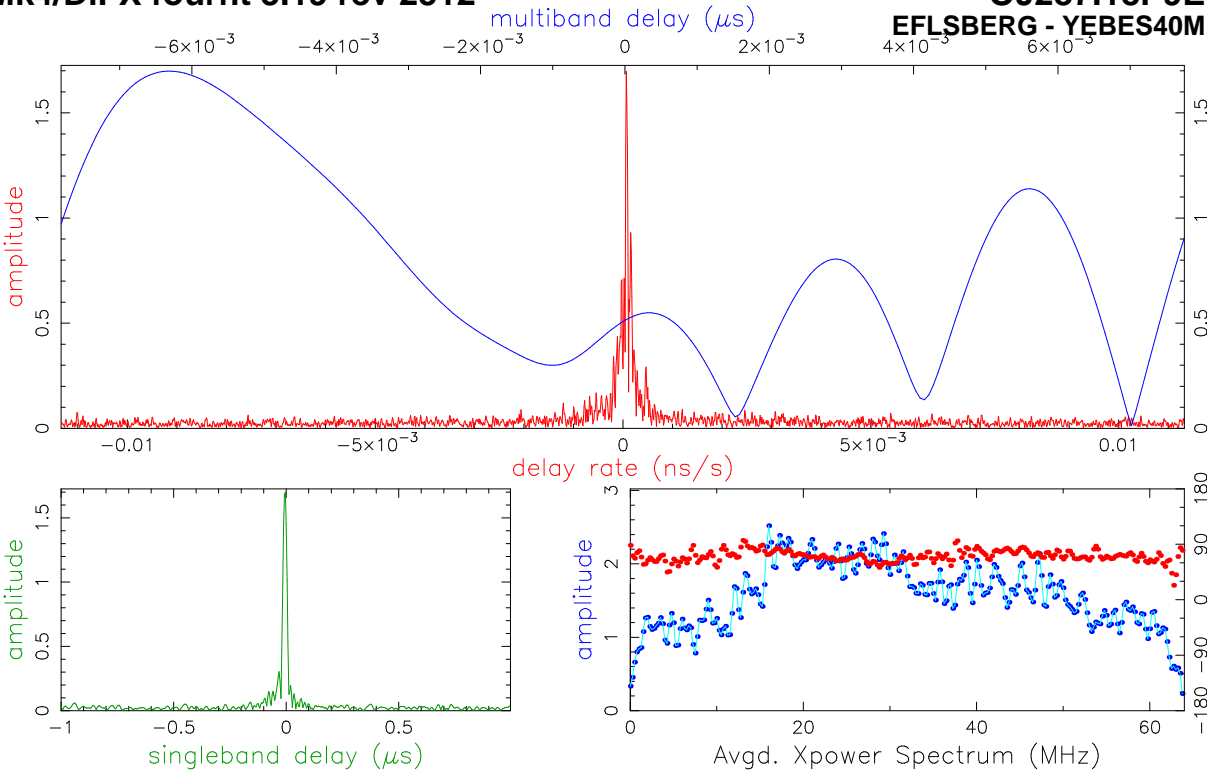
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-105.4	114.4	83.4	97.6	121.3	74.4	-80.6	136.8	Phase	109.6
	0.4	0.8	0.7	0.7	0.4	0.1	0.3	0.2	Ampl.	0.4
	255.3	257.7	259.0	259.2	258.5	256.8	257.4	251.9	Sbd box	258.9
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.38865562645E+03		Apriori delay (usec)		-2.38866304792E+03		Resid mbdelay (usec)		7.42148E-03	+/- 7.0E-05
Sband delay (usec)	-2.38865561767E+03		Apriori clock (usec)		1.1017265E+00		Resid sbdelay (usec)		7.43025E-03	+/- 5.6E-04
Phase delay (usec)	-2.38866304439E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		3.53508E-06	+/- 2.4E-07
Delay rate (us/s)	8.24162541113E-02		Apriori rate (us/s)		8.24161855378E-02		Resid rate (us/s)		6.85735E-08	+/- 9.5E-10
Total phase (deg)			Apriori accel (us/s/s)		1.74304221780E-05		Resid phase (deg)		109.6	+/- 7.4

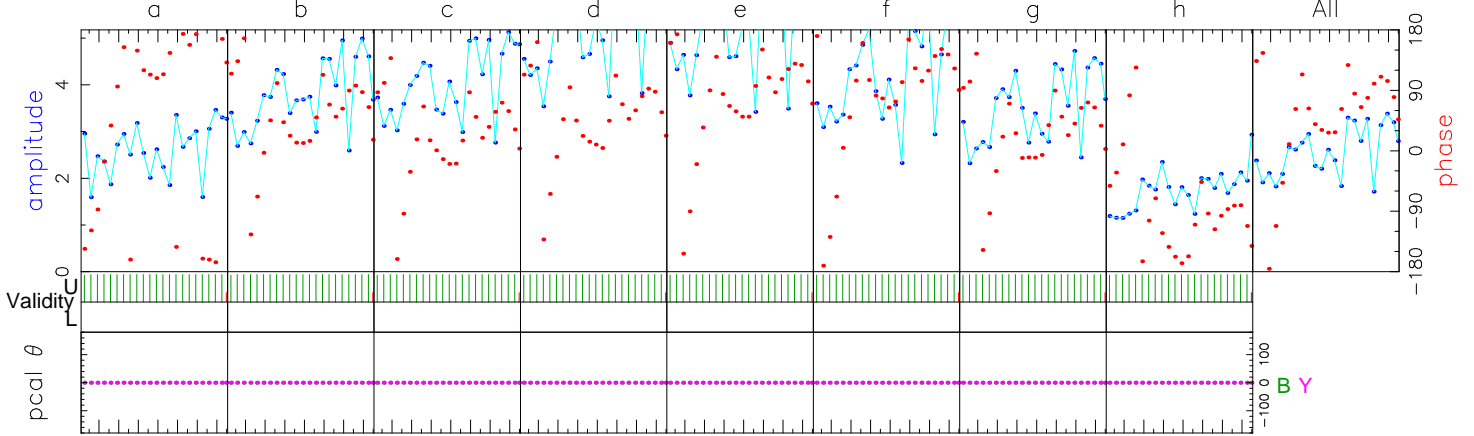
	RMS	Theor.	Amplitude	0.271 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	61.3	17.8	Search (2048X32)	0.268	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	70.4	31.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	93.8	10.5	Inc. seg. avg.	0.407	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	106.6	18.3	Inc. frq. avg.	0.447	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 265.9 el 29.7 pa 42.5 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -474.933 1519.361 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BY.W.30.18P9EC



Fringe quality 1
 SNR 98.3
 Int time 434.153
 Amp 1.726
 Phase 78.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.005655
 MBD -0.006259
 Fringe rate (Hz) 0.006105
 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
 2020:197:120801
 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
Group delay (usec)(sbd)	166.6	62.2	35.2	60.0	102.8	119.3	39.4	-108.0	Phase	78.5
Sband delay (usec)	1.6	2.5	2.6	3.5	3.5	2.8	2.3	1.1	Ampl.	2.5
Phase delay (usec)	252.0	254.3	255.9	255.7	255.9	255.3	254.1	249.1	Sbd box	255.6
Delay rate (us/s)	8.24162564063E-02								Resid rate (us/s)	
Total phase (deg)			-262.9						Resid phase (deg)	78.5
									Resid mbdelay (usec)	-6.25924E-03
									Resid sbdelay (usec)	-5.65500E-03
									Resid phdelay (usec)	2.53036E-06
									Resid rate (us/s)	7.08685E-08
									Resid phase (deg)	78.5

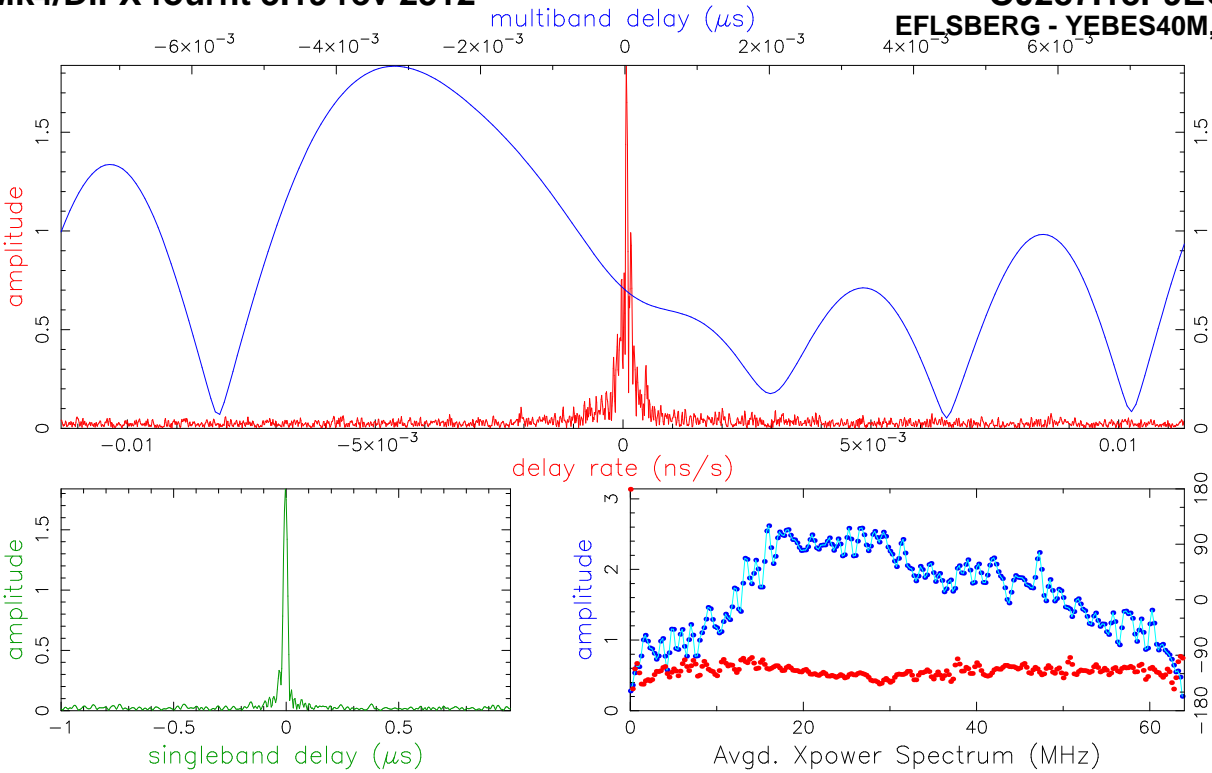
ph/seg (deg) 61.4 2.8
 amp/seg (%) 58.0 4.9
 ph/frq (deg) 85.8 1.6
 amp/frq (%) 62.7 2.9

RMS Theor. Amplitude 1.726 +/- 0.018
 Search (2048X32) 1.640
 Interp. 0.000
 Inc. seg. avg. 2.576
 Inc. frq. avg. 2.488

Group delay (usec)(sbd) -2.38866930717E+03 Apriori delay (usec) -2.38866304792E+03 Resid mbdelay (usec) -6.25924E-03 +/- 1.1E-05
 Sband delay (usec) -2.38866870292E+03 Apriori clock (usec) 1.1017265E+00 Resid sbdelay (usec) -5.65500E-03 +/- 8.8E-05
 Phase delay (usec) -2.38866304539E+03 Apriori clockrate (us/s) -4.2000000E-07 Resid phdelay (usec) 2.53036E-06 +/- 3.8E-08
 Delay rate (us/s) 8.24162564063E-02 Apriori rate (us/s) 8.24161855378E-02 Resid rate (us/s) 7.08685E-08 +/- 1.5E-10
 Total phase (deg) -262.9 Apriori accel (us/s/s) 1.74304221780E-05 Resid phase (deg) 78.5 +/- 1.2

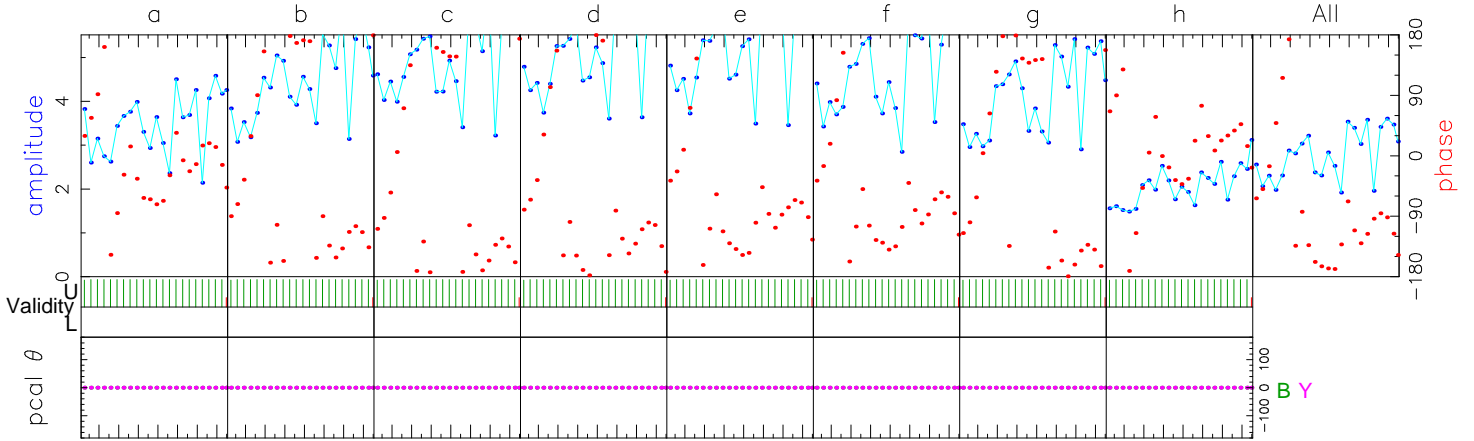
PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -474.933 1519.361 simultaneous interpolator



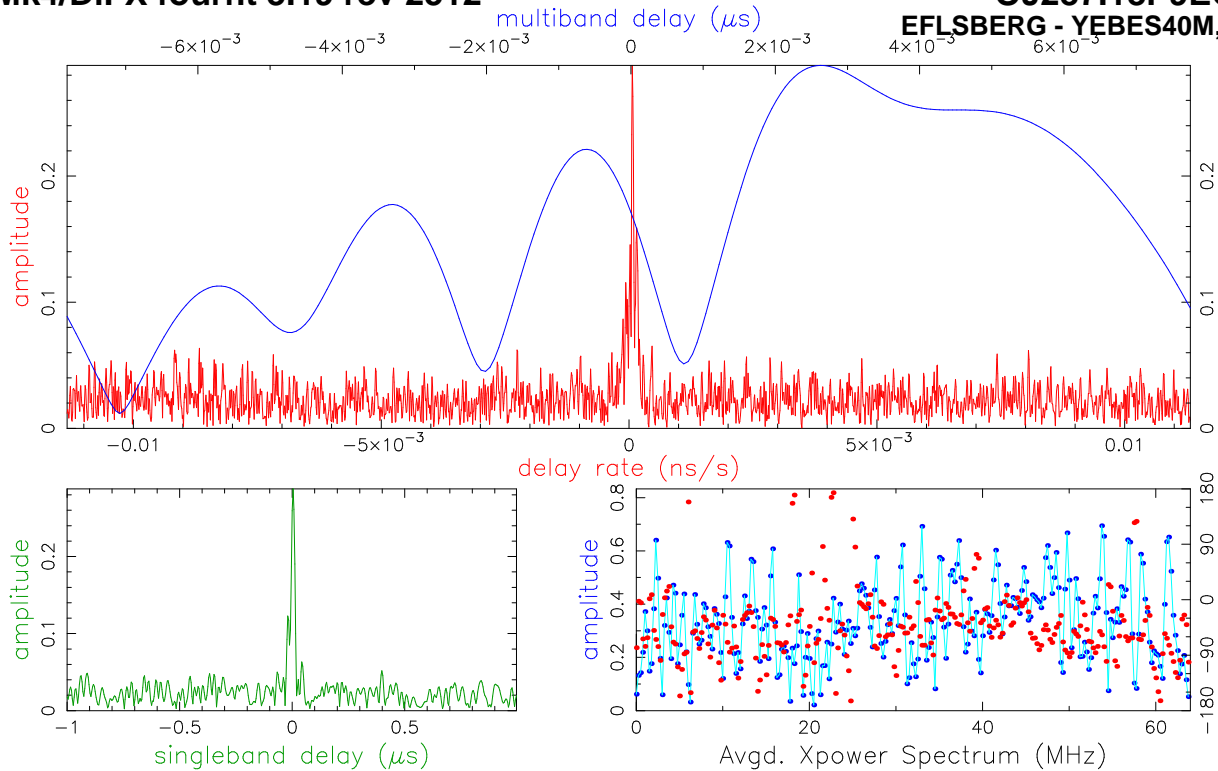
Fringe quality 1
SNR 104.8
Int time 434.153
Amp 1.839
Phase -116.7
PFD 0.0e+00
Delays (us)
SBD -0.003226
MBD -0.003208
Fringe rate (Hz)
0.006086
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120805
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



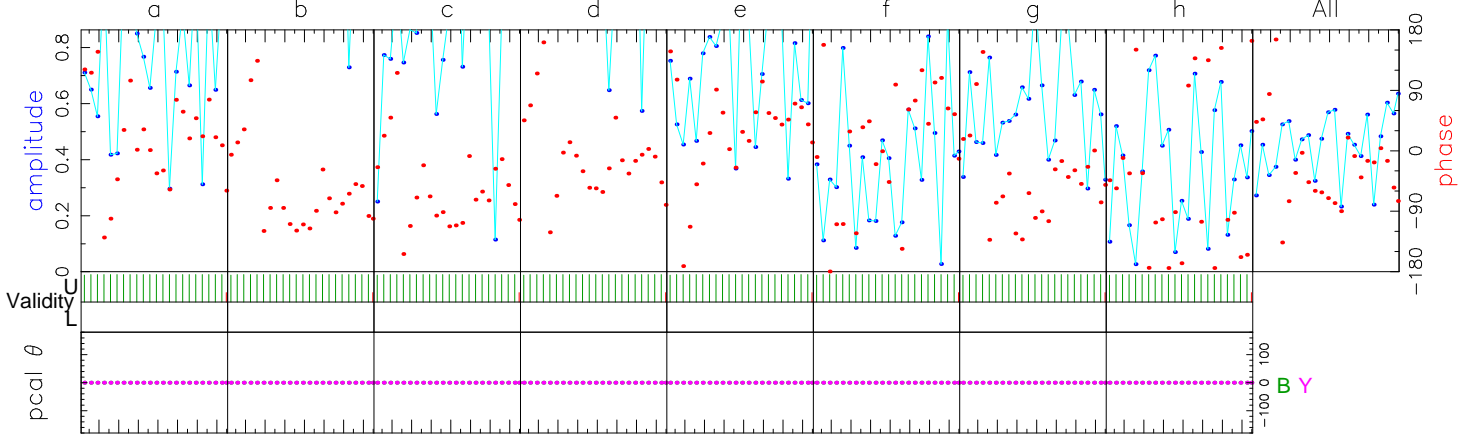
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-14.4	-139.6	-156.7	-131.4	-93.6	-86.6	-164.9	16.6	Phase	-116.7
	2.2	2.9	3.2	3.4	3.5	3.1	2.7	1.3	Ampl.	2.8
	253.4	255.0	256.7	256.6	256.5	256.0	254.7	250.3	Sbd box	256.2
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.38866625610E+03		Apriori delay (usec)		-2.38866304792E+03		Resid mbdelay (usec)		-3.20818E-03	+/- 1.0E-05
Sband delay (usec)	-2.38866627367E+03		Apriori clock (usec)		1.1017265E+00		Resid sbdelay (usec)		-3.22575E-03	+/- 8.2E-05
Phase delay (usec)	-2.38866305169E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-3.76314E-06	+/- 3.5E-08
Delay rate (us/s)	8.24162561845E-02		Apriori rate (us/s)		8.24161855378E-02		Resid rate (us/s)		7.06467E-08	+/- 1.4E-10
Total phase (deg)			Apriori accel (us/s/s)		1.74304221780E-05		Resid phase (deg)		-116.7	+/- 1.1

ph/seg (deg) 60.7 2.6 Search (2048X32) 1.766 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.7 4.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 75.6 1.5 Inc. seg. avg. 2.781 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 62.9 2.7 Inc. frq. avg. 2.783 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 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -474.933 1519.361 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BY.W.73.18P9EC



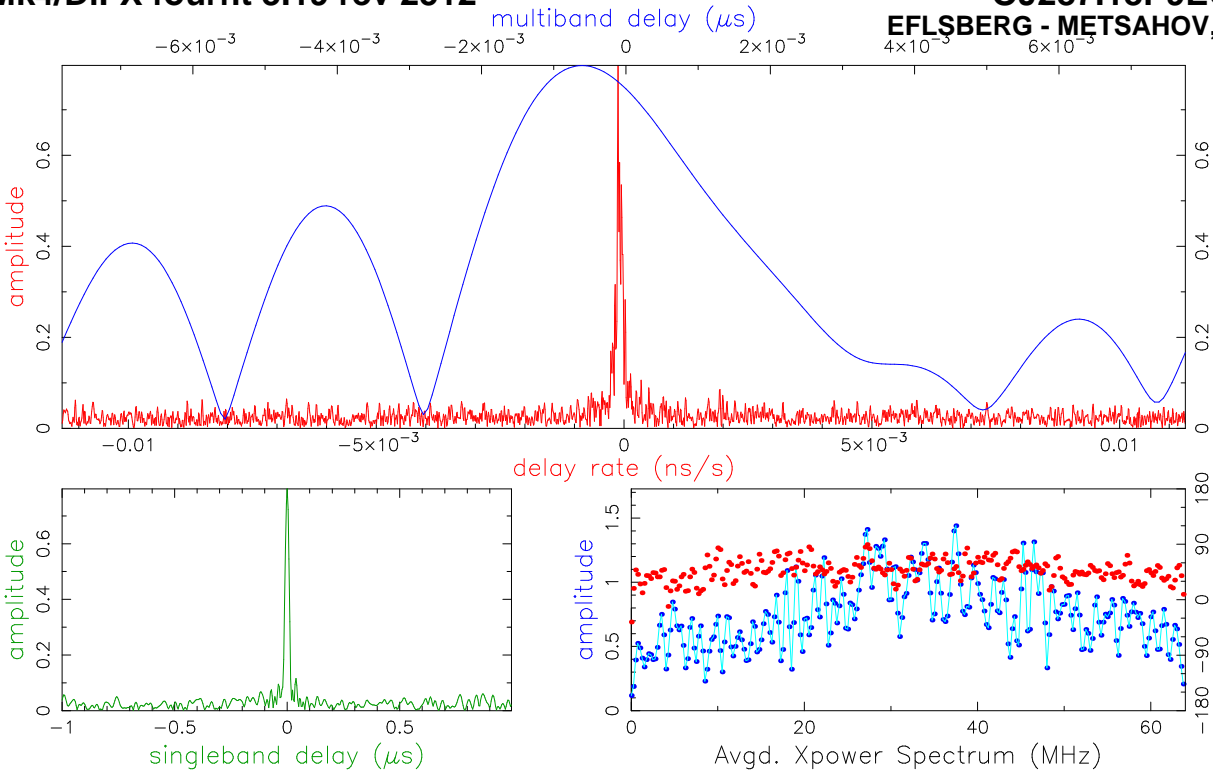
Fringe quality 7
SNR 16.4
Int time 434.153
Amp 0.288
Phase -35.6
PFD 0.0e+00
Delays (us)
SBD 0.003976
MBD 0.002628
Fringe rate (Hz) 0.006183
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120810
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		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.38866042023E+03				-2.38866304792E+03				2.62770E-03	+/- 6.6E-05
Sband delay (usec)	-2.38865907192E+03				1.1017265E+00				3.97600E-03	+/- 5.3E-04
Phase delay (usec)	-2.38866304907E+03				-4.2000000E-07				-1.14685E-06	+/- 2.3E-07
Delay rate (us/s)	8.24162573147E-02				8.24161855378E-02				7.17769E-08	+/- 9.0E-10
Total phase (deg)			-16.9		1.74304221780E-05				-35.6	+/- 7.0
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

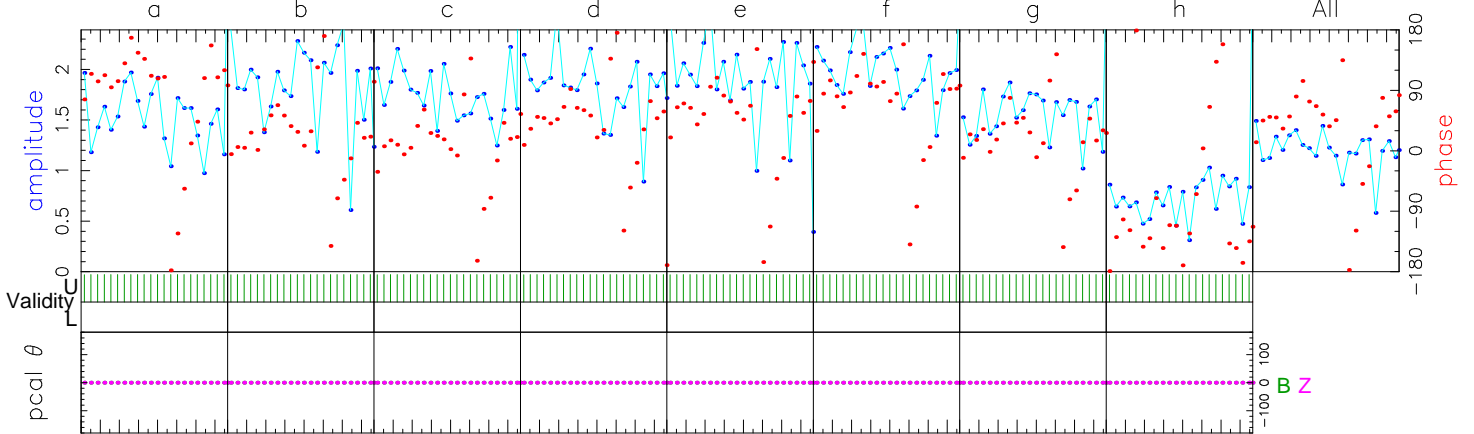
B: az 265.9 el 29.7 pa 42.5 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -474.933 1519.361 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BY.W.87.18P9EC



Fringe quality 3

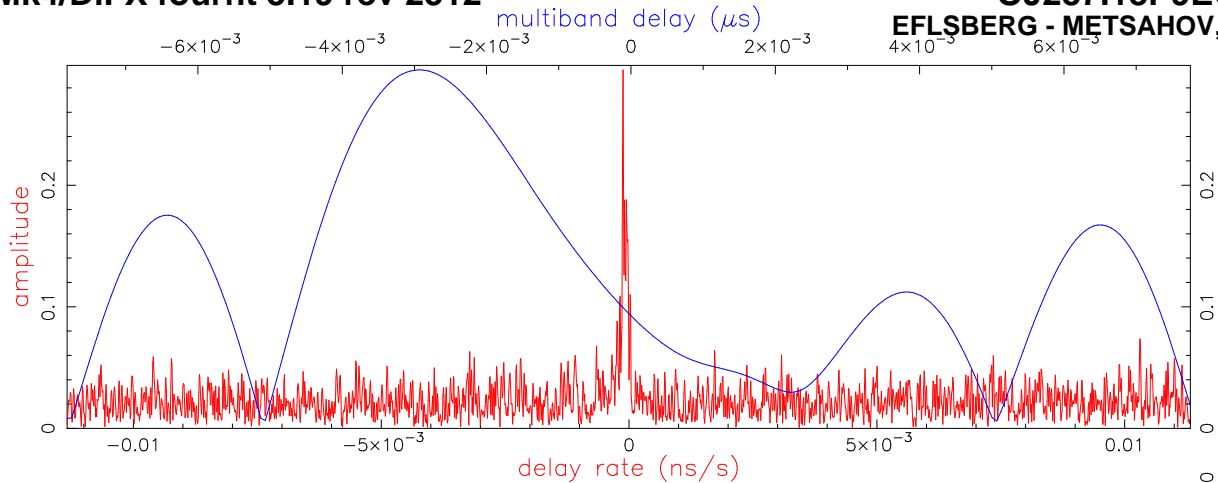
SNR 45.7
Int time 439.192
Amp 0.797
Phase 51.8
PFD 0.0e+00
Delays (us)
SBD -0.000323
MBD -0.000608
Fringe rate (Hz)
-0.010368
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120817
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



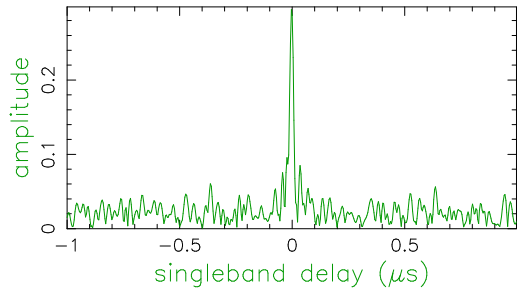
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.28863037245E+03				3.28863098031E+03			Resid mbdelay (usec)	-6.07855E-04 +/- 2.4E-05
Sband delay (usec)		3.28863065781E+03				1.3177259E+01			Resid sbdelay (usec)	-3.22500E-04 +/- 1.9E-04
Phase delay (usec)		3.28863098198E+03				-2.1600000E-07			Resid phdelay (usec)	1.67028E-06 +/- 8.1E-08
Delay rate (us/s)		-1.39766610951E-01				-1.39766490587E-01			Resid rate (us/s)	-1.20364E-07 +/- 3.2E-10
Total phase (deg)			283.5			-2.11365797105E-05			Resid phase (deg)	51.8 +/- 2.5
RMS	58.9	6.0		0.797 +/- 0.017					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.9	6.0	Search (2048X32)	0.790					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	56.1	10.5	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	79.5	3.5	Inc. seg. avg.	1.197					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	49.7	6.2	Inc. frq. avg.	1.081					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) 818.018 -1411.282 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BZ.W.112.18P9EC

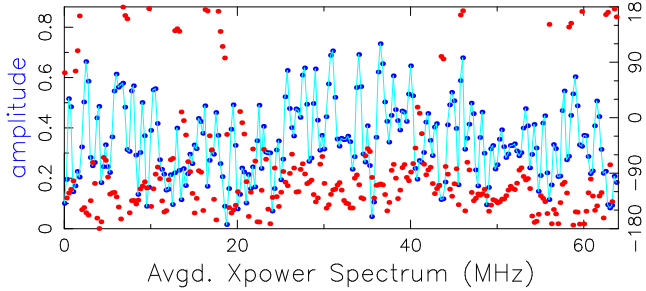


Fringe quality 7

SNR 17.1
Int time 439.192
Amp 0.299
Phase -117.6
PFD 0.0e+00
Delays (us)
SBD -0.002478
MBD -0.002906
Fringe rate (Hz)
-0.010474
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

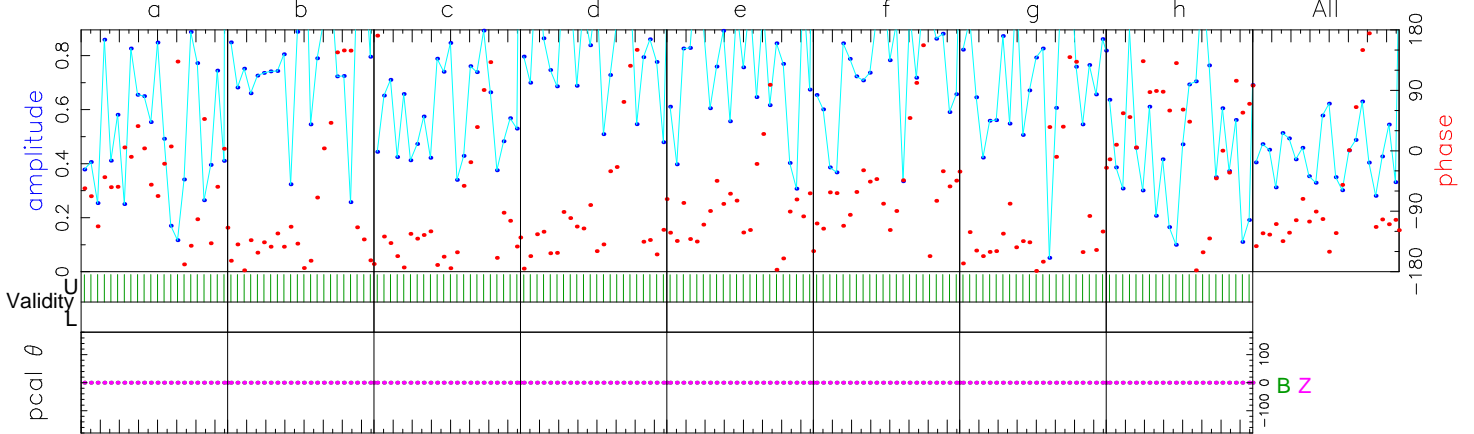


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120821
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

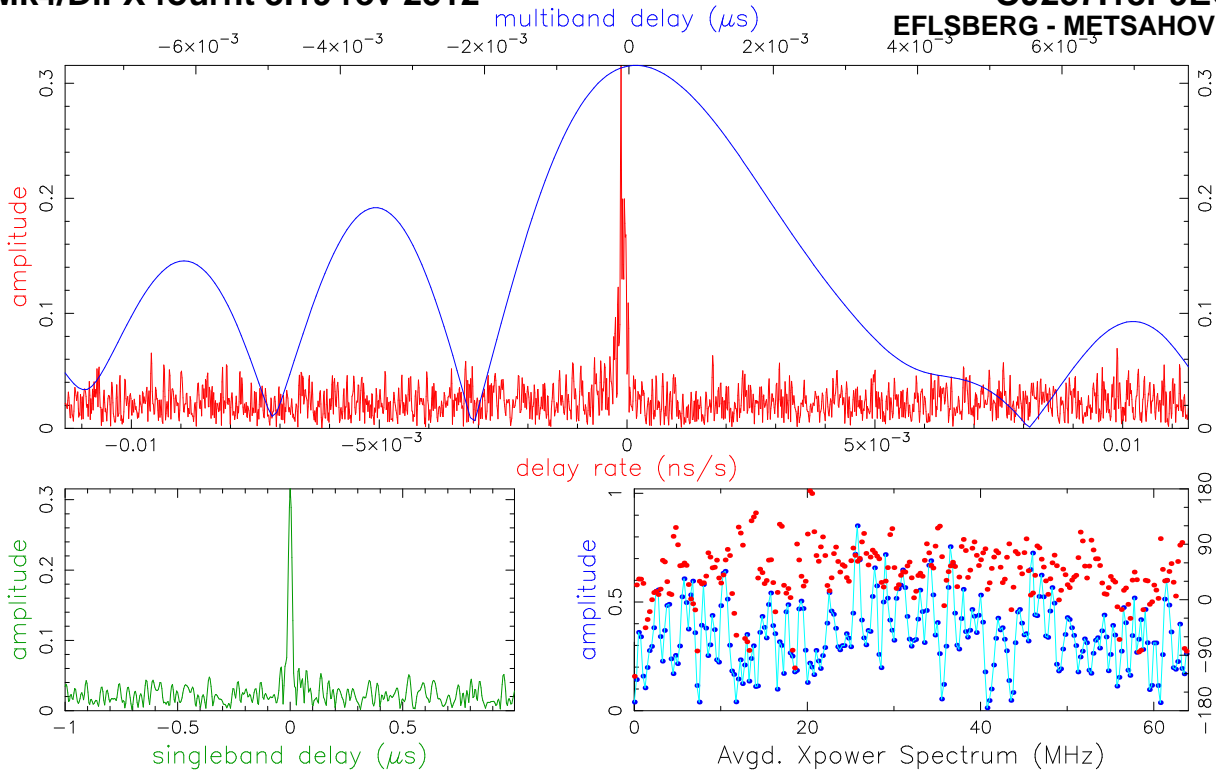


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.8	-148.3	-148.2	-129.8	-98.8	-76.0	-148.0	56.5	Phase	-117.6
	0.3	0.5	0.3	0.5	0.5	0.4	0.4	0.1	Ampl.	0.4
	253.0	255.3	257.3	256.5	256.6	256.7	255.0	248.0	Sbd box	256.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.28862807405E+03		Apriori delay (usec)		3.28863098031E+03		Resid mbdelay (usec)		-2.90626E-03	+/- 6.3E-05
Sband delay (usec)	3.28862850256E+03		Apriori clock (usec)		1.3177259E+01		Resid sbdelay (usec)		-2.47775E-03	+/- 5.0E-04
Phase delay (usec)	3.28863097651E+03		Apriori clockrate (us/s)		-2.160000E-07		Resid phdelay (usec)		-3.79225E-06	+/- 2.2E-07
Delay rate (us/s)	-1.39766612184E-01		Apriori rate (us/s)		-1.39766490587E-01		Resid rate (us/s)		-1.21597E-07	+/- 8.5E-10
Total phase (deg)	114.1		Apriori accel (us/s/s)		-2.11365797105E-05		Resid phase (deg)		-117.6	+/- 6.7

	RMS	Theor.	Amplitude	0.299 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	56.1	16.1	Search (2048X32)	0.294	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	57.7	28.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	81.6	9.5	Inc. seg. avg.	0.421	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	52.0	16.5	Inc. frq. avg.	0.392	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 265.9 el 29.7 pa 42.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) 818.018 -1411.282 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BZ.W.134.18P9EC

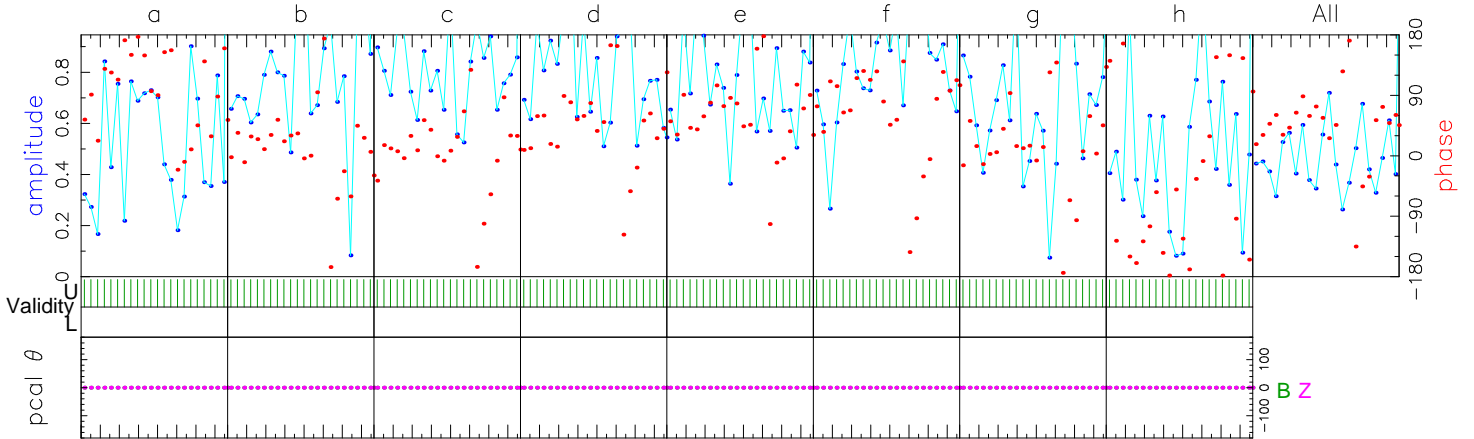


Fringe quality 7

SNR 18.1
Int time 439.192
Amp 0.315
Phase 46.6
PFD 0.0e+00
Delays (us)
SBD 0.000007
MBD 0.000093
Fringe rate (Hz)
-0.010434
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
2020:197:120807
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



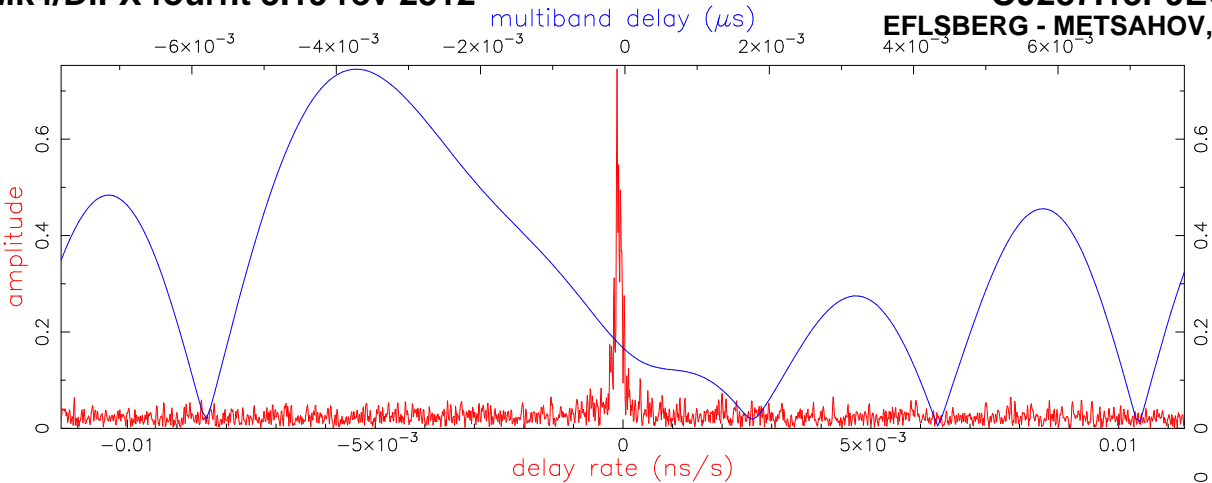
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	3.28863107283E+03	Apriori delay (usec)	3.28863098031E+03	Resid mbdelay (usec)	9.25201E-05	+/-	6.0E-05
Sband delay (usec)	3.28863098781E+03	Apriori clock (usec)	1.3177259E+01	Resid sbdelay (usec)	7.50000E-06	+/-	4.8E-04
Phase delay (usec)	3.28863098181E+03	Apriori clockrate (us/s)	-2.1600000E-07	Resid phdelay (usec)	1.50433E-06	+/-	2.0E-07
Delay rate (us/s)	-1.39766611712E-01	Apriori rate (us/s)	-1.39766490587E-01	Resid rate (us/s)	-1.21125E-07	+/-	8.0E-10
Total phase (deg)	278.4	Apriori accel (us/s/s)	-2.11365797105E-05	Resid phase (deg)	46.6	+/-	6.3

ph/seg (deg)	58.0	Theor.	Amplitude	0.315 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	60.2	15.2	Search (2048X32)	0.314	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	81.9	9.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	50.1	15.6	Inc. seg. avg.	0.448	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.422	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

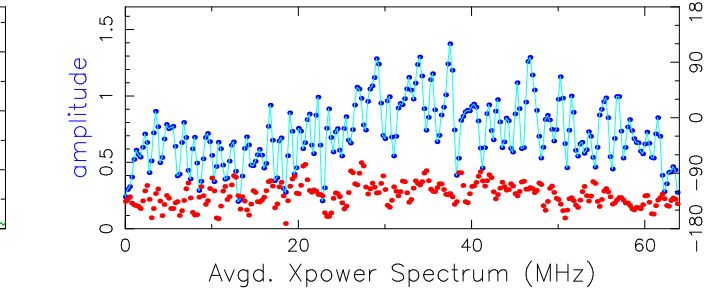
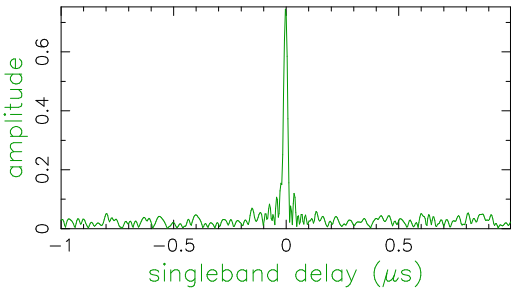
B: az 265.9 el 29.7 pa 42.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) 818.018 -1411.282 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BZ.W.78.18P9EC



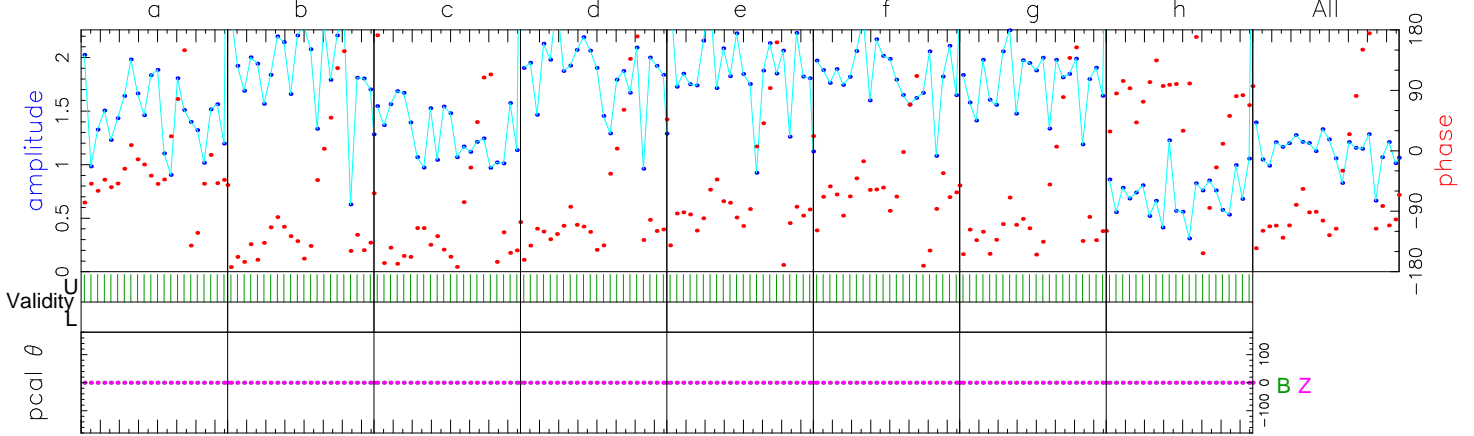
Fringe quality 3

SNR 43.2
Int time 439.192
Amp 0.753
Phase -109.1
PFD 0.0e+00
Delays (us)
SBD -0.002549
MBD -0.003720
Fringe rate (Hz)
-0.010370
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
2020:197:120812
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
	-39.2	-144.5	-152.7	-124.3	-95.8	-65.4	-125.7	79.6	Phase	-109.1
	1.0	1.2	0.9	1.3	1.2	1.2	1.2	0.4	Ampl.	1.0
	253.4	255.8	257.0	256.2	256.7	256.3	254.8	249.8	Sbd box	256.3
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 3.28862726042E+03 Apriori delay (usec) 3.28863098031E+03 Resid mbdelay (usec) -3.71989E-03 +/- 2.5E-05
 Sband delay (usec) 3.28862843106E+03 Apriori clock (usec) 1.3177259E+01 Resid sbdelay (usec) -2.54925E-03 +/- 2.0E-04
 Phase delay (usec) 3.28863097679E+03 Apriori clockrate (us/s) -2.1600000E-07 Resid phdelay (usec) -3.51796E-06 +/- 8.6E-08
 Delay rate (us/s) -1.39766610975E-01 Apriori rate (us/s) -1.39766490587E-01 Resid rate (us/s) -1.20388E-07 +/- 3.4E-10
 Total phase (deg) 122.6 Apriori accel (us/s/s) -2.11365797105E-05 Resid phase (deg) -109.1 +/- 2.7

RMS Theor. Amplitude 0.753 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 58.8 6.4 Search (2048X32) 0.732 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 55.4 11.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 81.6 3.8 Inc. seg. avg. 1.131 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 52.8 6.6 Inc. frq. avg. 1.048 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) 818.018 -1411.282 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BZ.W.91.18P9EC