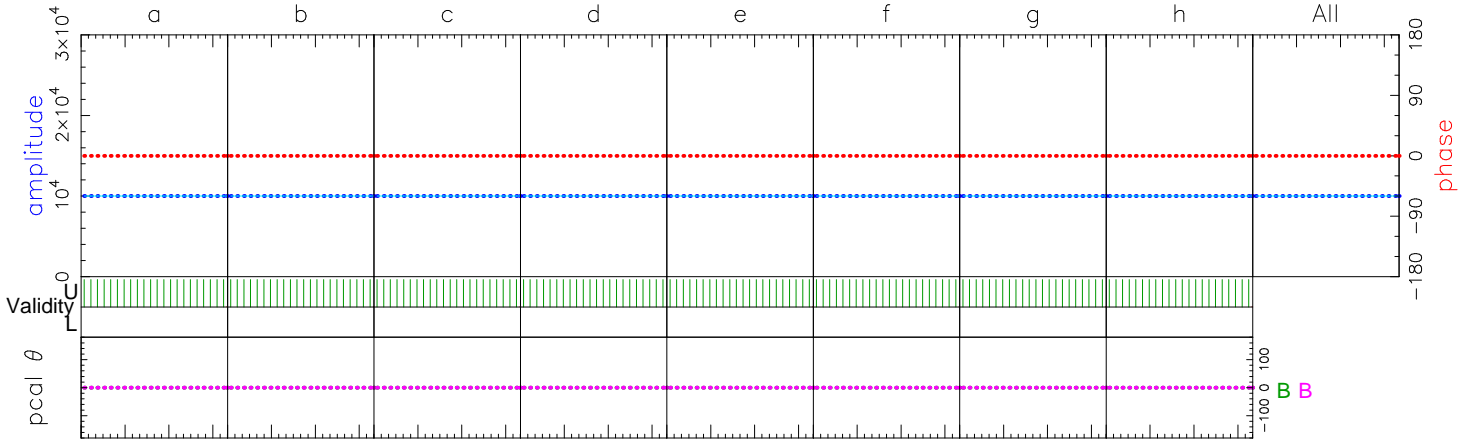


Fringe quality 9
SNR 378542.6
Int time 191.617
Amp 10000.001
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120312.00
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195052
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
-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
8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L 375/0	375/0	375/0	375/0	375/0	375/0	375/0	375/0	APs used	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B 1000	1000	1000	1000	1000	1000	1000	1000	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 W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

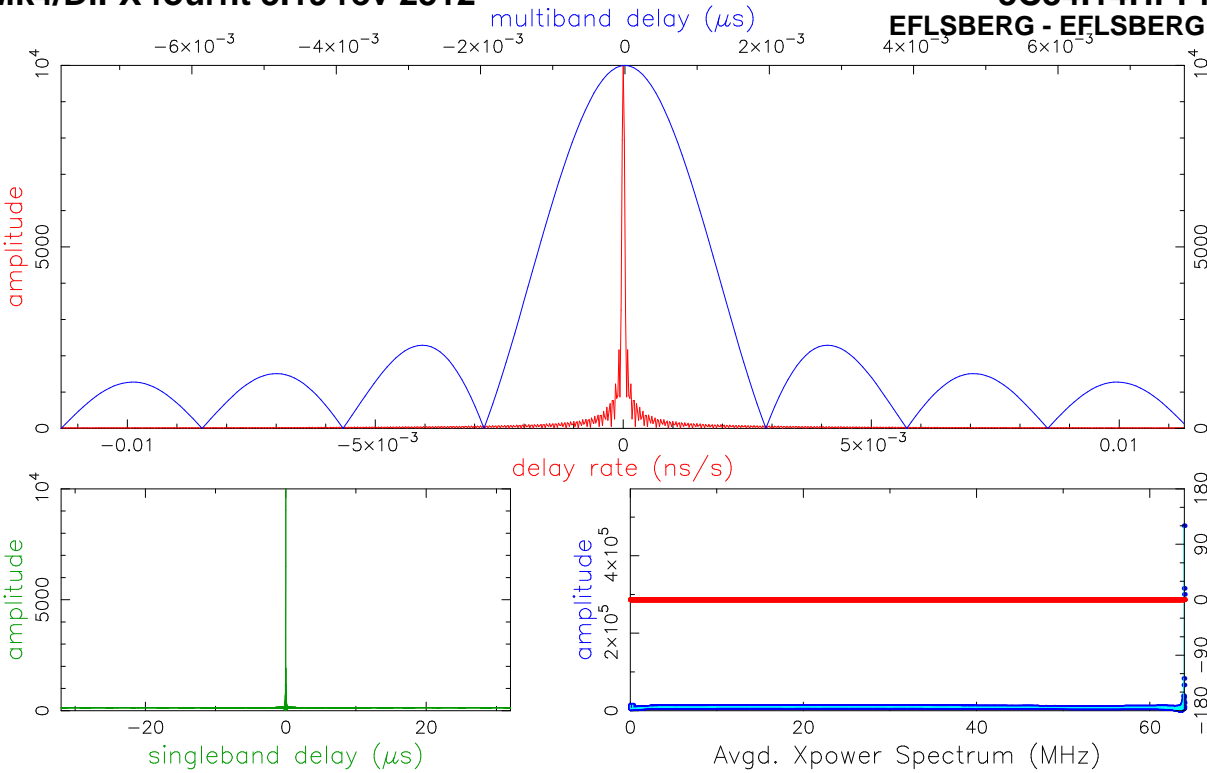
Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.9E-09
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
Phase delay (usec) 1.01295577659E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.01296E-19 +/- 9.8E-12
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 8.8E-14
Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.001 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.001 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
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: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 134.2 el 78.1 pa -37.2 B: az 134.2 el 78.1 pa -37.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BB..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BB.W.13.14HPPM

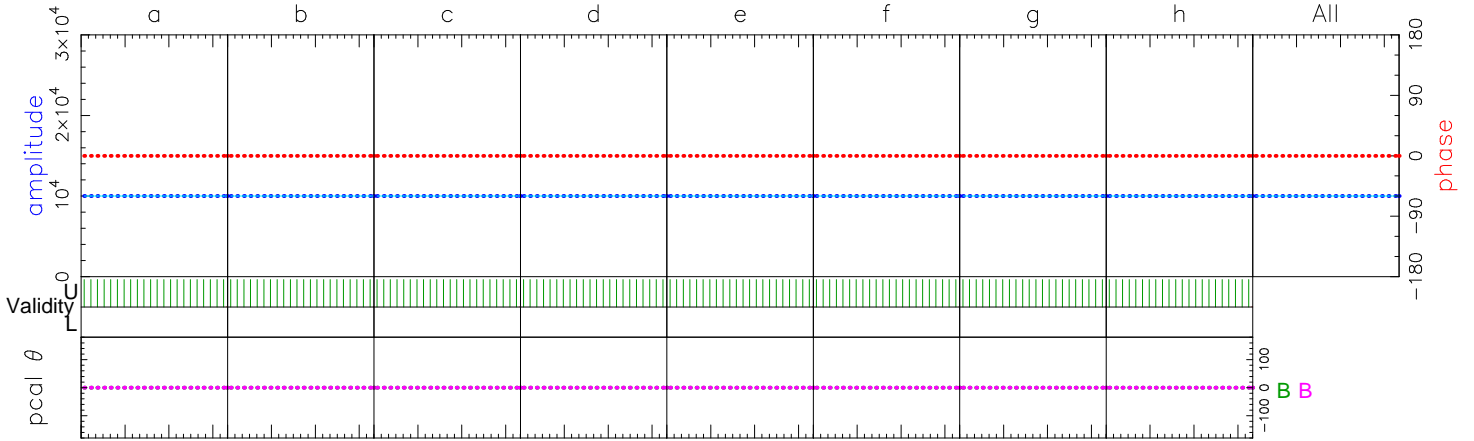
Mk4/DiFX fourfit 3.19 rev 2512

3C84.14HPPM, No0001, BB
EFLSBERG - EFLSBERG, fgroup W, pol RR



Fringe quality 9
SNR 378542.6
Int time 191.617
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. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120312.00
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195133
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
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
8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L 375/0	375/0	375/0	375/0	375/0	375/0	375/0	375/0	APs used	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B 1000	1000	1000	1000	1000	1000	1000	1000	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	

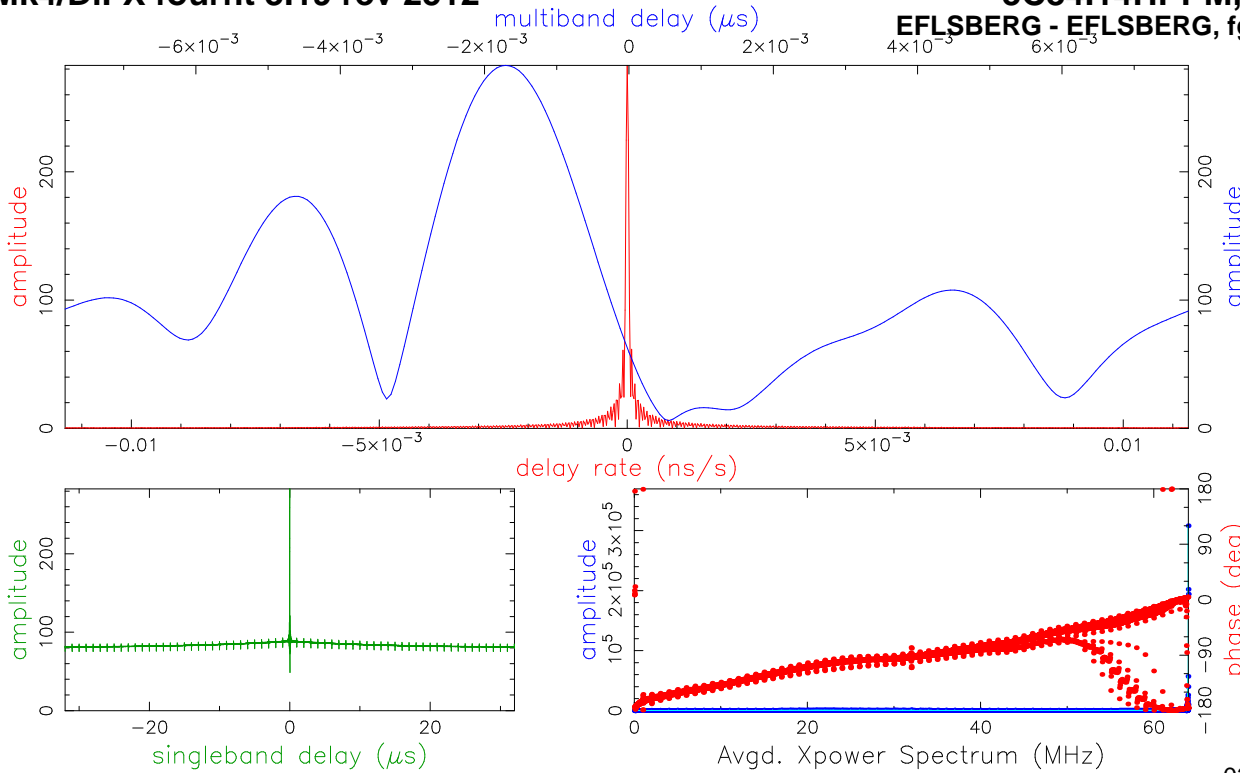
Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
 Phase delay (usec) -1.42913001074E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.42913E-19 +/- 9.8E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 8.8E-14
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 10000.001 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.001 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 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 (MSamp/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: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 134.2 el 78.1 pa -37.2 B: az 134.2 el 78.1 pa -37.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BB..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BB.W.15.14HPPM

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14HPPM, No0001, BB
EFLSBERG - EFLSBERG, fgroup W, pol LR

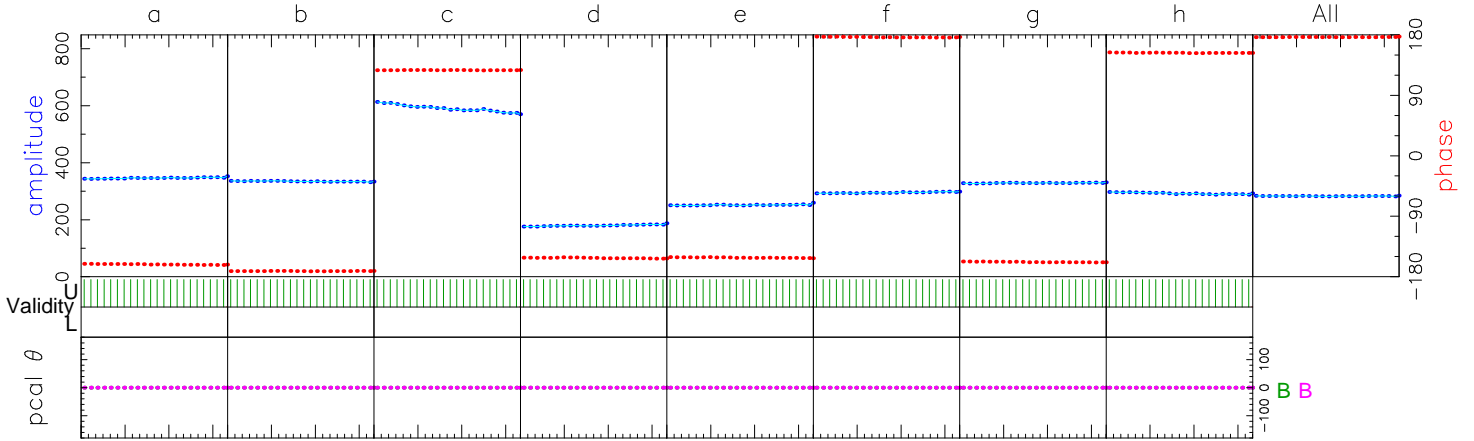


Fringe quality 5

SNR 10709.2
Int time 191.617
Amp 282.905
Phase 176.6
PFD 0.0e+00
Delays (us)
SBD -0.007878
MBD -0.001709
Fringe rate (Hz) 0.000022
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120312.00
FRT 120300.00
Corr/FF/build 2020:114:192003
2020:114:195214
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

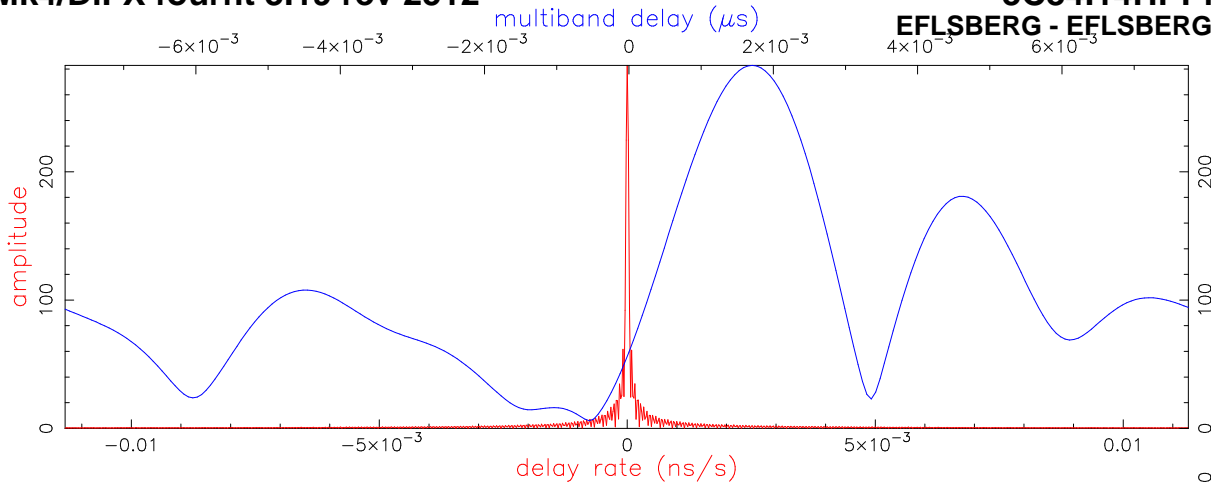


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-161.6	-171.5	127.4	-152.0	-151.5	176.5	-158.1	153.2	Phase	176.6
	346.2	334.7	591.3	179.8	251.5	295.1	328.8	292.6	Ampl.	327.5
	8192.8	8192.6	8188.8	8193.4	8191.8	8192.0	8192.5	8195.0	Sbd box	8191.0
U/L	375/0	375/0	375/0	375/0	375/0	375/0	375/0	375/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.70890625000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.70891E-03	+/- 1.0E-07
Sband delay (usec)	-7.87825000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-7.87825E-03	+/- 8.0E-07
Phase delay (usec)	5.69490258443E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		5.69490E-06	+/- 3.5E-10
Delay rate (us/s)	2.59332088768E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.59332E-10	+/- 3.1E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		176.6	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 282.905 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.2 0.0 Search (1024X32) 275.615 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 32.2 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.5 0.0 Inc. seg. avg. 282.898 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 B: az 134.2 el 78.1 pa -37.2 B: az 134.2 el 78.1 pa -37.2 u,v (fr/asec) 0.000 0.000 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BB..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BB.W.18.14HPPM simultaneous interpolator

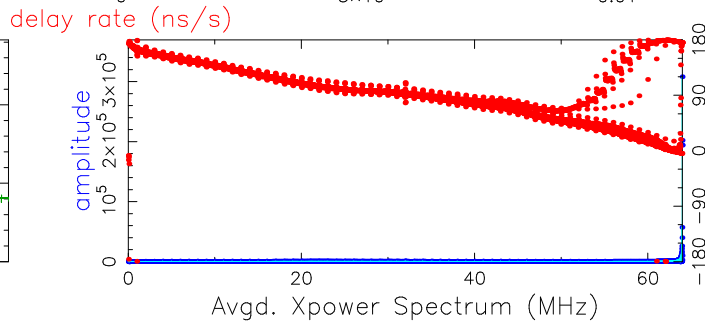
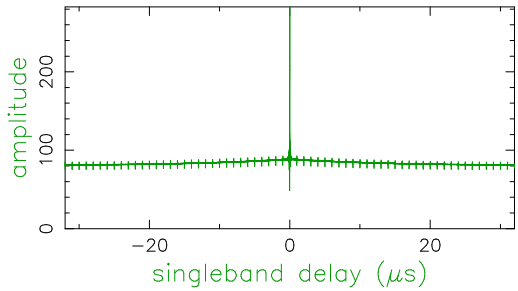
Mk4/DiFX fourfit 3.19 rev 2512

3C84.14HPPM, No0001, BB
EFLSBERG - EFLSBERG, fgroup W, pol RL



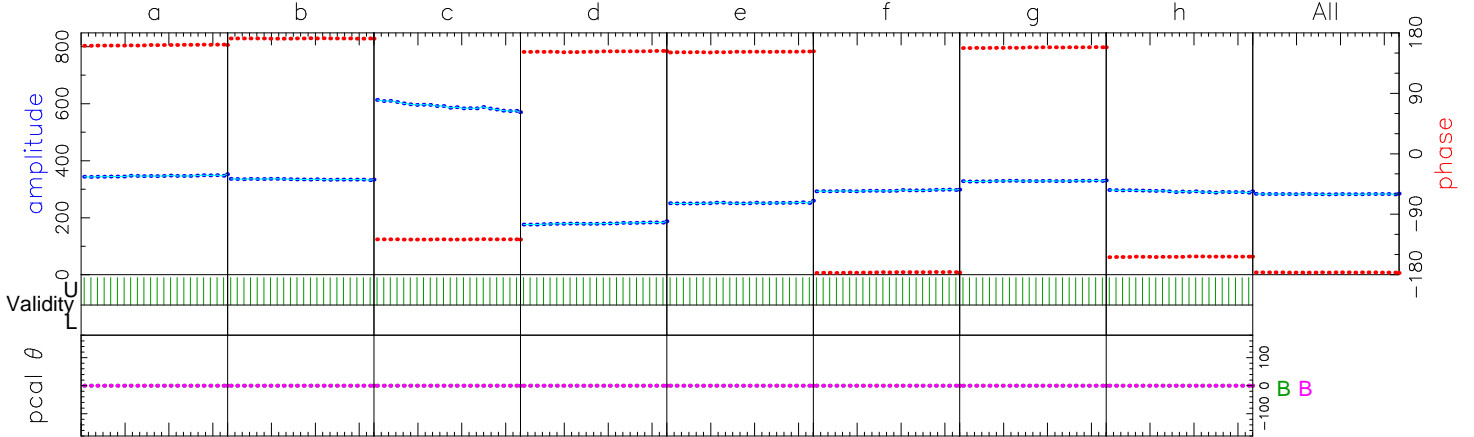
Fringe quality 5

SNR 10709.2
Int time 191.617
Amp 282.905
Phase -176.6
PFD 0.0e+00
Delays (us)
SBD 0.007878
MBD 0.001709
Fringe rate (Hz)
-0.000022
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f201a
Yr:day 16383
Yr:day 2020:114
Start 120000.00
Stop 120312.00
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195256
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

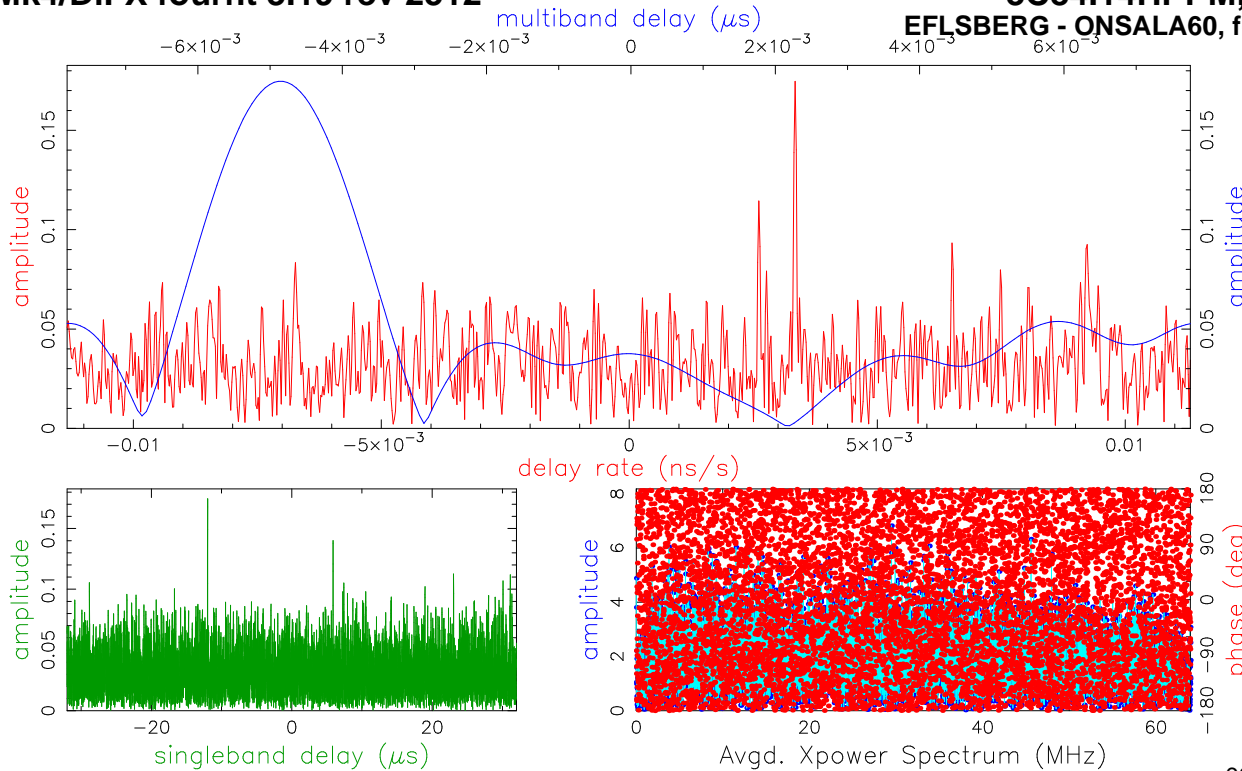


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	161.6	171.5	-127.4	152.0	151.5	-176.5	158.1	-153.2	Phase	-176.6
	346.2	334.7	591.3	179.8	251.5	295.1	328.8	292.6	Ampl.	327.5
	8193.2	8193.4	8197.2	8192.6	8194.2	8194.0	8193.5	8191.0	Sbd box	8195.0
U/L	375/0	375/0	375/0	375/0	375/0	375/0	375/0	375/0	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	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.70890625000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.70891E-03	+/-	1.0E-07
Sband delay (usec)	7.87825000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	7.87825E-03	+/-	8.0E-07
Phase delay (usec)	-5.69490258447E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.69490E-06	+/-	3.5E-10
Delay rate (us/s)	-2.59332088768E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.59332E-10	+/-	3.1E-12
Total phase (deg)	-176.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-176.6	+/-	0.0

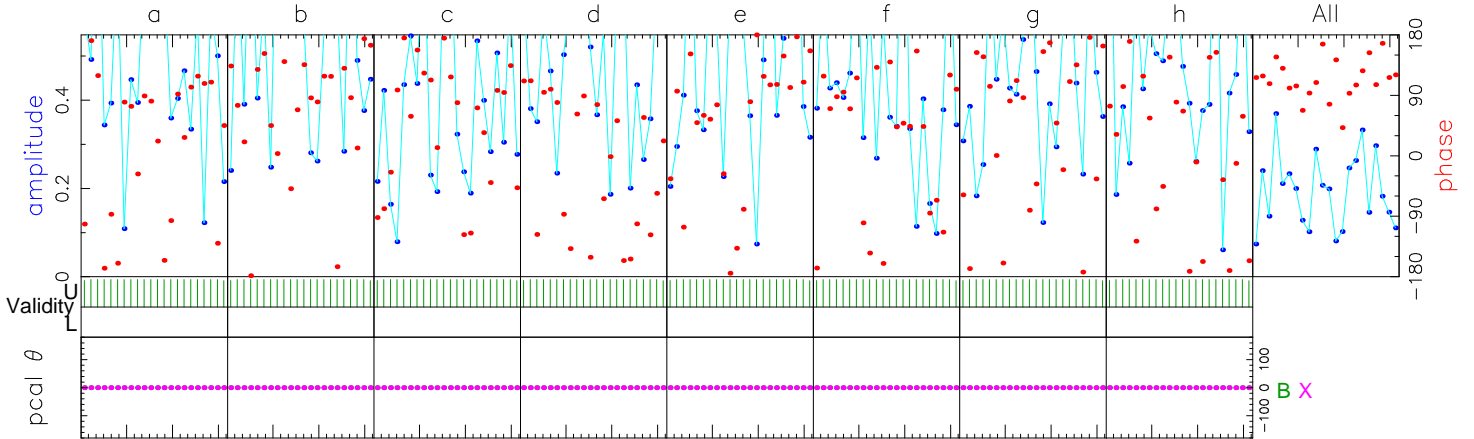
ph/seg (deg)	0.1	0.0	Amplitude	282.905 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	0.2	0.0	Search (1024X32)	275.615	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	32.2	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	42.5	0.0	Inc. seg. avg.	282.898	Sample rate (MSamp/s): 128		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	327.508	Data rate (Mb/s): 2048	nlags: 8192 t_cohere infinite			

B: az 134.2 el 78.1 pa -37.2 B: az 134.2 el 78.1 pa -37.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BB..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BB.W.20.14HPPM



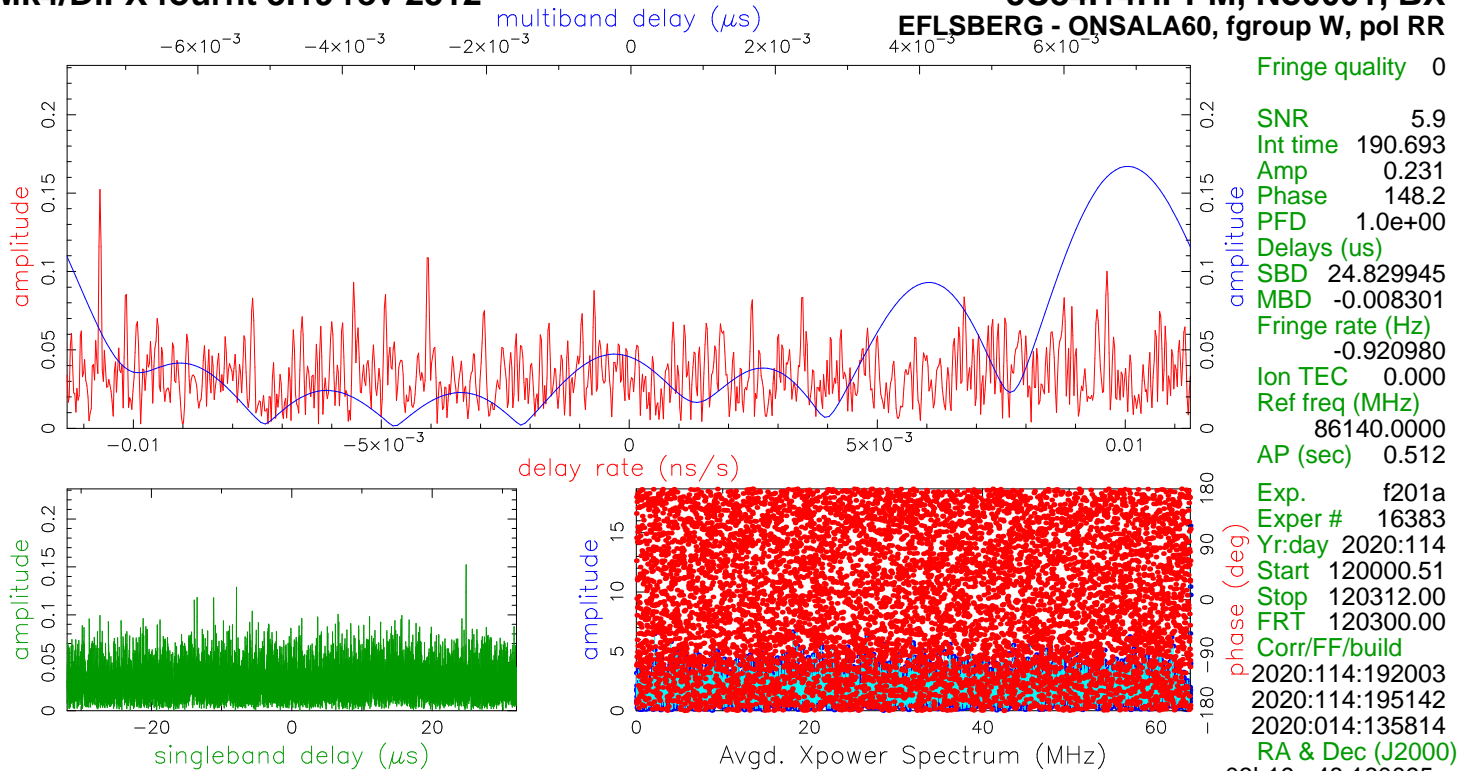
Fringe quality 0
SNR 6.7
Int time 190.693
Amp 0.183
Phase 116.5
PFD 1.2e-01
Delays (us)
SBD -11.985558
MBD -0.004889
Fringe rate (Hz) 0.288040
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.51
Stop 120312.00
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195057
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 22 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

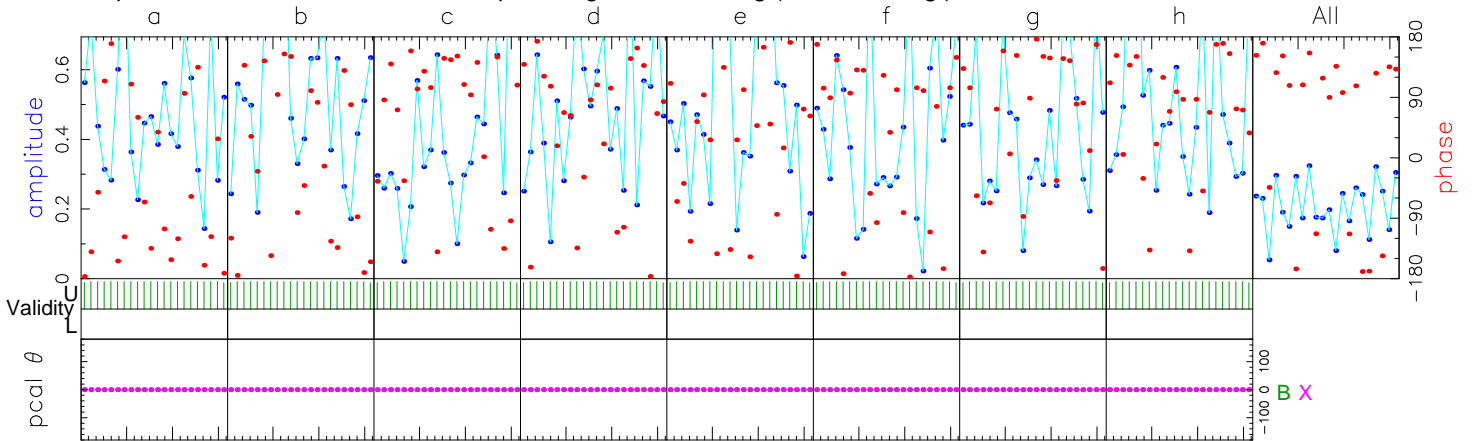


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	121.8	109.8	114.8	95.9	126.3	108.1	135.4	115.7	Phase	116.5
	0.2	0.3	0.2	0.1	0.3	0.2	0.1	0.2	Ampl.	0.2
	3065.7	9339.7	8277.8	2485.6	8643.1	8873.2	12486.9	3627.1	Sbd box	5124.7
U/L	374/0	374/0	374/0	374/0	374/0	374/0	374/0	374/0	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)	3.75413101151E+02		Apriori delay (usec)		3.87402364700E+02		Resid mbdelay (usec)		-4.88855E-03	+/- 1.6E-04
Sband delay (usec)	3.75416807200E+02		Apriori clock (usec)		-2.6770130E+01		Resid sbdelay (usec)		-1.19856E+01	+/- 1.3E-03
Phase delay (usec)	3.87402368457E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		3.75659E-06	+/- 5.6E-07
Delay rate (us/s)	7.53891041734E-02		Apriori rate (us/s)		7.53857603171E-02		Resid rate (us/s)		3.34386E-06	+/- 5.0E-09
Total phase (deg)	6.8		Apriori accel (us/s/s)		-7.49274075410E-06		Resid phase (deg)		116.5	+/- 17.2

ph/seg (deg) 30.0 40.4 Amplitude 0.183 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 47.3 70.5 Search (1024X32) 0.173 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 13.1 24.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.6 42.5 Inc. seg. avg. 0.163 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.168 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 134.2 el 78.1 pa -37.2 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) -585.554 -986.493 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BX.W.14.14HPPM



Amp. and Phase vs. time for each freq., 22 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



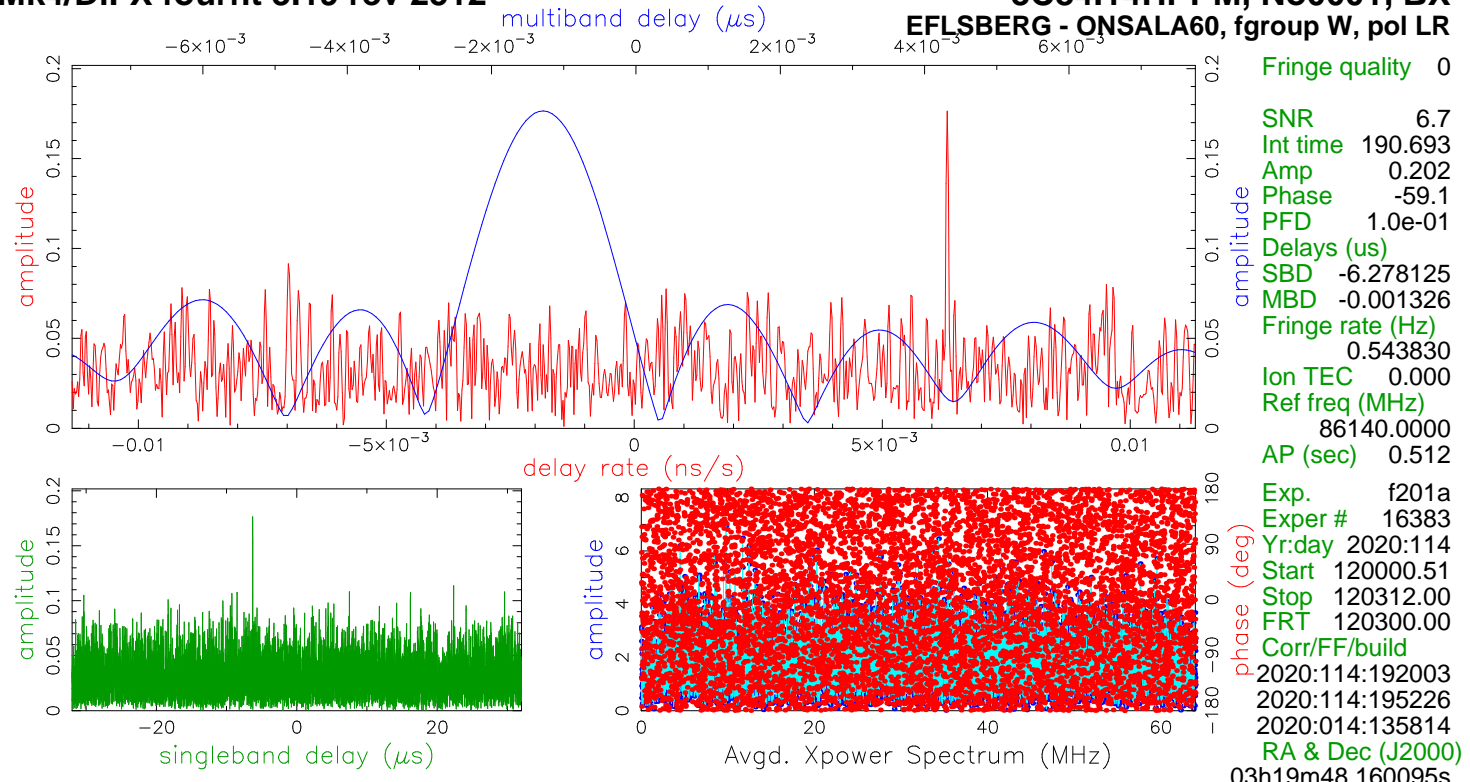
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-140.0	166.0	150.7	119.3	125.1	148.7	142.7	116.4	Phase	148.2
	0.3	0.3	0.2	0.3	0.1	0.3	0.3	0.3	Ampl.	0.2
	15239.3	5756.0	2794.0	6487.7	6525.8	11432.7	10926.0	15181.1	Sbd box	14549.5
U/L	374/0	374/0	374/0	374/0	374/0	374/0	374/0	374/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	4.12237813919E+02	Apriori delay (usec)	3.87402364700E+02	Resid mbdelay (usec)	-8.30078E-03	+/-	1.8E-04
Sband delay (usec)	4.12232309450E+02	Apriori clock (usec)	-2.6770130E+01	Resid sbdelay (usec)	2.48299E+01	+/-	1.5E-03
Phase delay (usec)	3.87402369480E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	4.77992E-06	+/-	6.3E-07
Delay rate (us/s)	7.53750686559E-02	Apriori rate (us/s)	7.53857603171E-02	Resid rate (us/s)	-1.06917E-05	+/-	5.7E-09
Total phase (deg)	38.5	Apriori accel (us/s/s)	-7.49274075410E-06	Resid phase (deg)	148.2	+/-	19.5

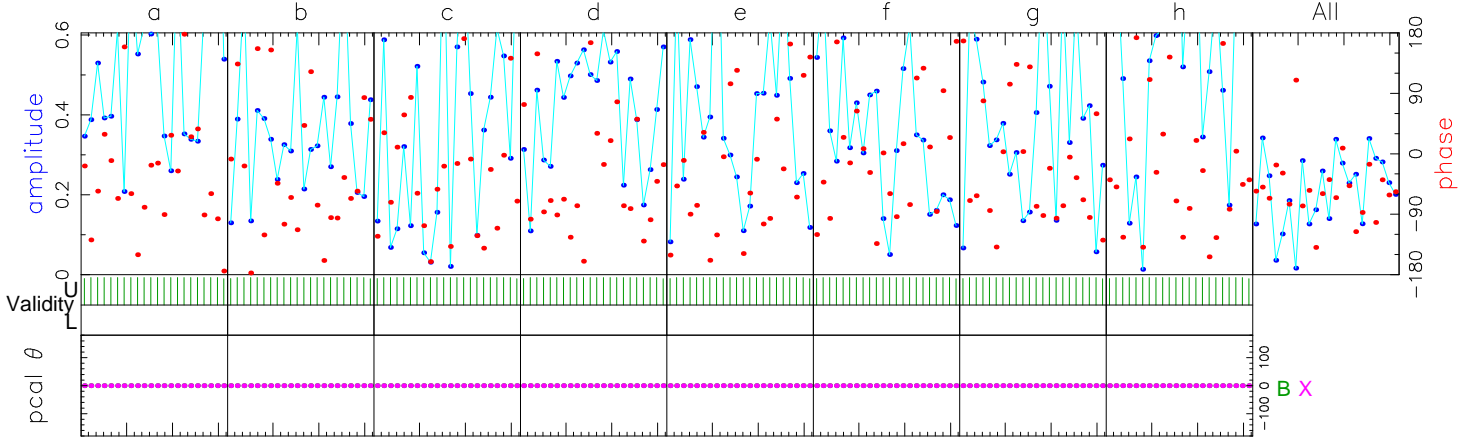
ph/seg (deg)	57.2	RMS	45.7	Theor.	45.7	Amplitude	0.231 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	59.3	Search (1024X32)	0.164	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000	32.000	
ph/frq (deg)	36.3	Inc. seg. avg.	0.237	Inc. frq. avg.	0.240	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	27.7	Inc. frq. avg.	0.240	Data rate (Mb/s):	2048	Sample rate (MSamp/s):	128	nlags: 8192 t_cohere infinite	dr window (ns/s)	-0.011	0.011
						Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00	

B: az 134.2 el 78.1 pa -37.2 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) -585.554 -986.493 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BX.W.16.14HPPM



Amp. and Phase vs. time for each freq., 22 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



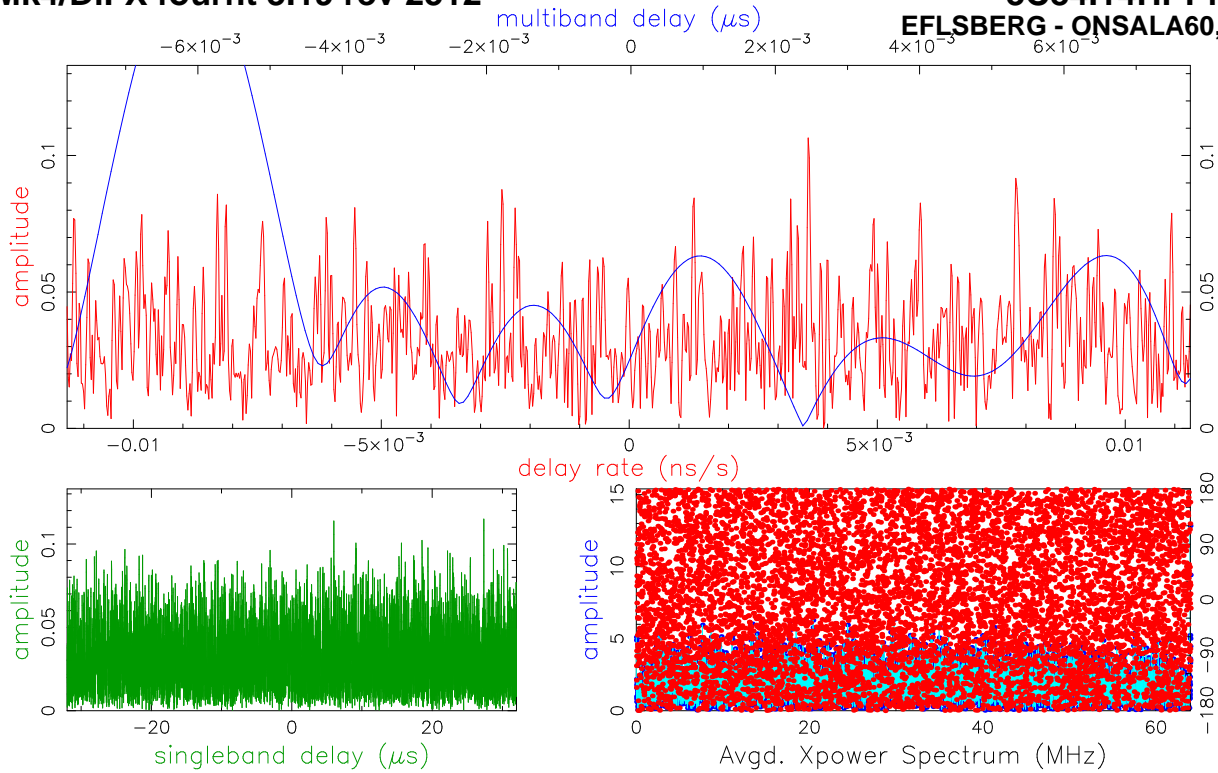
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.0	-82.4	-40.3	-59.5	-73.1	-31.2	-65.0	-55.3	Phase	-59.1
	0.3	0.1	0.2	0.1	0.2	0.1	0.2	0.3	Ampl.	0.2
	6108.8	3718.4	10355.8	2450.4	5904.0	4354.1	14632.0	11107.7	Sbd box	6585.8
U/L	374/0	374/0	374/0	374/0	374/0	374/0	374/0	374/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.81119788448E+02	Apriori delay (usec)	3.87402364700E+02	Resid mbdelay (usec)	-1.32625E-03	+/-	1.6E-04
Sband delay (usec)	3.81124239700E+02	Apriori clock (usec)	-2.6770130E+01	Resid sbdelay (usec)	-6.27812E+00	+/-	1.3E-03
Phase delay (usec)	3.87402362796E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	-1.90460E-06	+/-	5.5E-07
Delay rate (us/s)	7.53920736391E-02	Apriori rate (us/s)	7.53857603171E-02	Resid rate (us/s)	6.31332E-06	+/-	5.0E-09
Total phase (deg)	191.2	Apriori accel (us/s/s)	-7.49274075410E-06	Resid phase (deg)	-59.1	+/-	17.1

ph/seg (deg)	48.6	Theor.	40.2	Amplitude	0.202 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	55.3	Search (1024X32)	0.174	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000		
ph/frq (deg)	17.9	Inc. seg. avg.	0.192	Inc. frq. avg.	0.189	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.7	Inc. frq. avg.	0.189			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00

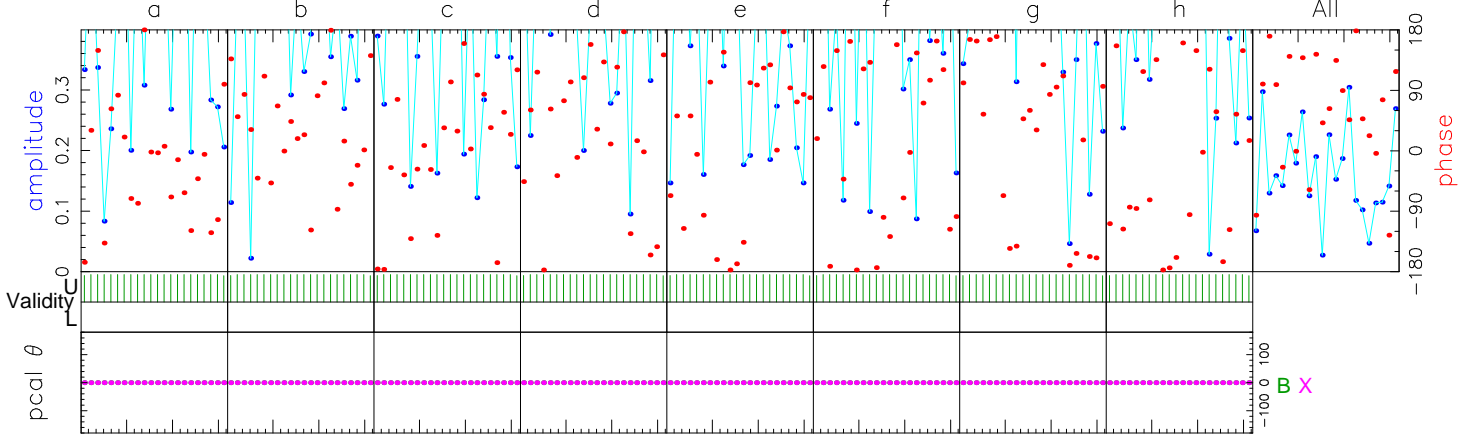
B: az 134.2 el 78.1 pa -37.2 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) -585.554 -986.493 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BX.W.19.14HPPM



Fringe quality 0
SNR 3.3
Int time 190.693
Amp 0.133
Phase 96.5
PFD 1.0e+00
Delays (us)
SBD 9.054688
MBD 0.008301
Fringe rate (Hz) 0.943226
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.51
Stop 120312.00
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195311
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 22 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

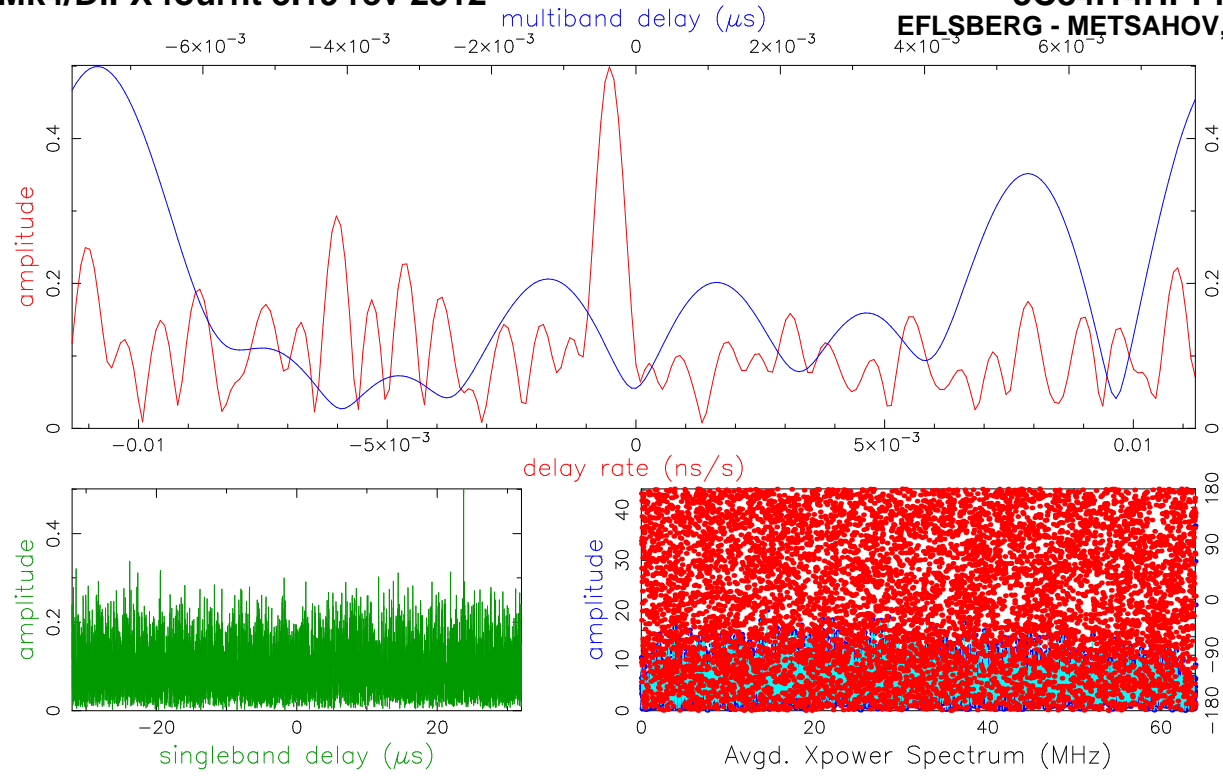


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.2	34.0	37.5	91.5	129.9	154.8	121.1	-166.5	Phase	96.5
	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	Ampl.	0.2
	4183.7	6849.1	14529.3	10583.3	6080.4	10530.0	16043.0	12811.3	Sbd box	10511.0
U/L	374/0	374/0	374/0	374/0	374/0	374/0	374/0	374/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.96457540482E+02	Apriori delay (usec)	3.87402364700E+02	Resid mbdelay (usec)	8.30078E-03	+/-	3.3E-04
Sband delay (usec)	3.96457052200E+02	Apriori clock (usec)	-2.6770130E+01	Resid sbdelay (usec)	9.05469E+00	+/-	2.6E-03
Phase delay (usec)	3.87402367811E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	3.11068E-06	+/-	1.1E-06
Delay rate (us/s)	7.53967102361E-02	Apriori rate (us/s)	7.53857603171E-02	Resid rate (us/s)	1.09499E-05	+/-	1.0E-08
Total phase (deg)	346.8	Apriori accel (us/s/s)	-7.49274075410E-06	Resid phase (deg)	96.5	+/-	34.6

ph/seg (deg)	RMS 79.7	Theor. 81.3	Amplitude Search (1024X32)	0.133 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	121.2	141.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	77.0	49.0	Inc. seg. avg.	0.123	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	120.2	85.5	Inc. frq. avg.	0.208	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 134.2 el 78.1 pa -37.2 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) -585.554 -986.493 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BX.W.22.14HPPM

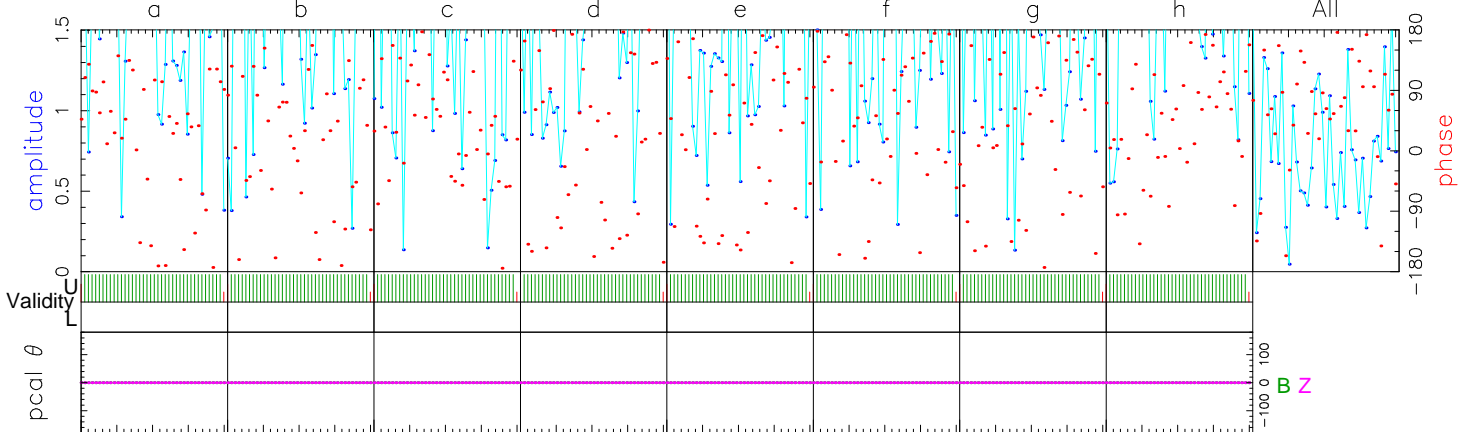


Fringe quality 0

SNR 6.1
Int time 19.973
Amp 0.501
Phase 76.8
PFD 4.0e-01
Delays (us)
SBD 23.760900
MBD -0.007499
Fringe rate (Hz)
-0.047126
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120020.48
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195033
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

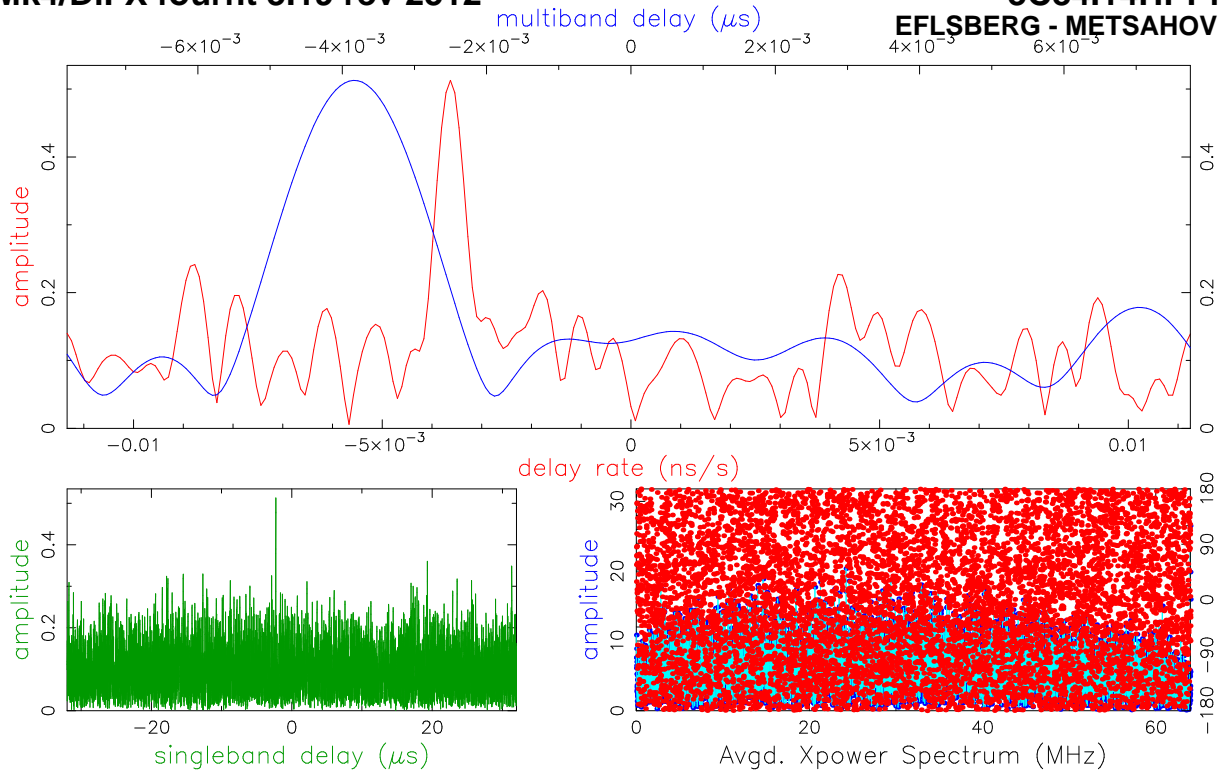
Group delay (usec)(sbd) 7.77852492460E+02 Apriori delay (usec) 7.54094366417E+02 Resid mbdelay (usec) -7.49896E-03 +/- 1.8E-04
 Sband delay (usec) 7.77855266417E+02 Apriori clock (usec) 1.3992961E+01 Resid sbdelay (usec) 2.37609E+01 +/- 1.4E-03
 Phase delay (usec) 7.54094368892E+02 Apriori clockrate (us/s) -2.1600000E-07 Resid phdelay (usec) 2.47527E-06 +/- 6.0E-07
 Delay rate (us/s) 2.05648584393E-01 Apriori rate (us/s) 2.05649131479E-01 Resid rate (us/s) -5.47086E-07 +/- 5.1E-08
 Total phase (deg) 337.1 Apriori accel (us/s/s) -1.11424468700E-05 Resid phase (deg) 76.8 +/- 18.7

RMS Theor. Amplitude 0.501 +/- 0.082 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.2 59.2 Search (128X32) 0.498 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 97.4 103.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 41.0 26.5 Inc. seg. avg. 0.506 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 40.5 46.2 Inc. frq. avg. 0.525 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 134.2 el 78.1 pa -37.2 Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) -1587.061 -1403.691 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BZ..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BZ.W.12.14HPPM

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14HPPM, No0001, BZ
EFLSBERG - METSAHOV, fgroup W, pol LL

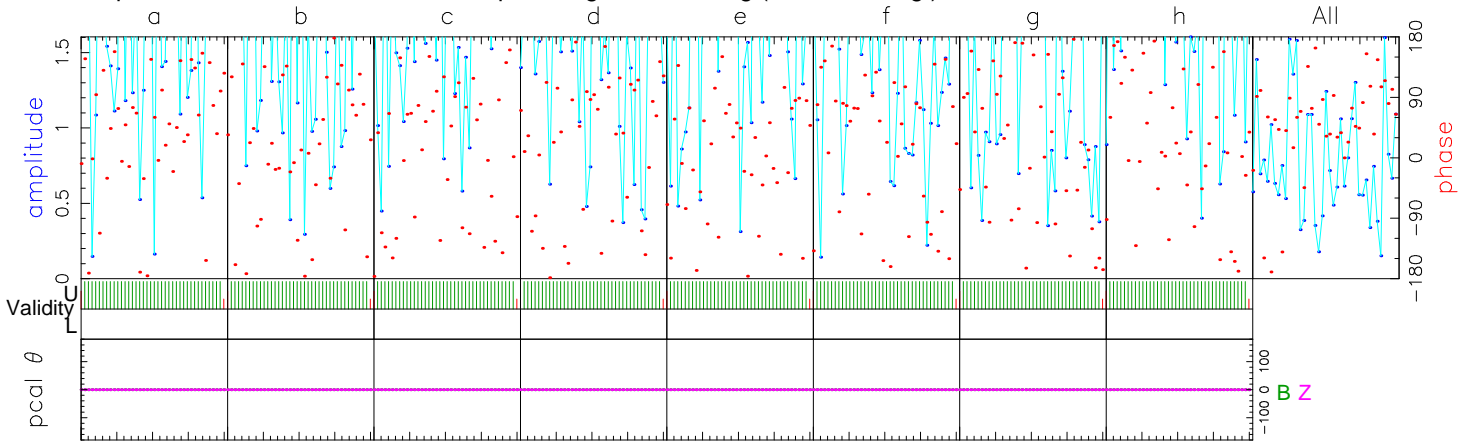


Fringe quality 0

SNR 6.3
Int time 19.973
Amp 0.535
Phase 71.6
PFD 1.8e-01
Delays (us)
SBD -2.273544
MBD -0.003838
Fringe rate (Hz)
-0.310602
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

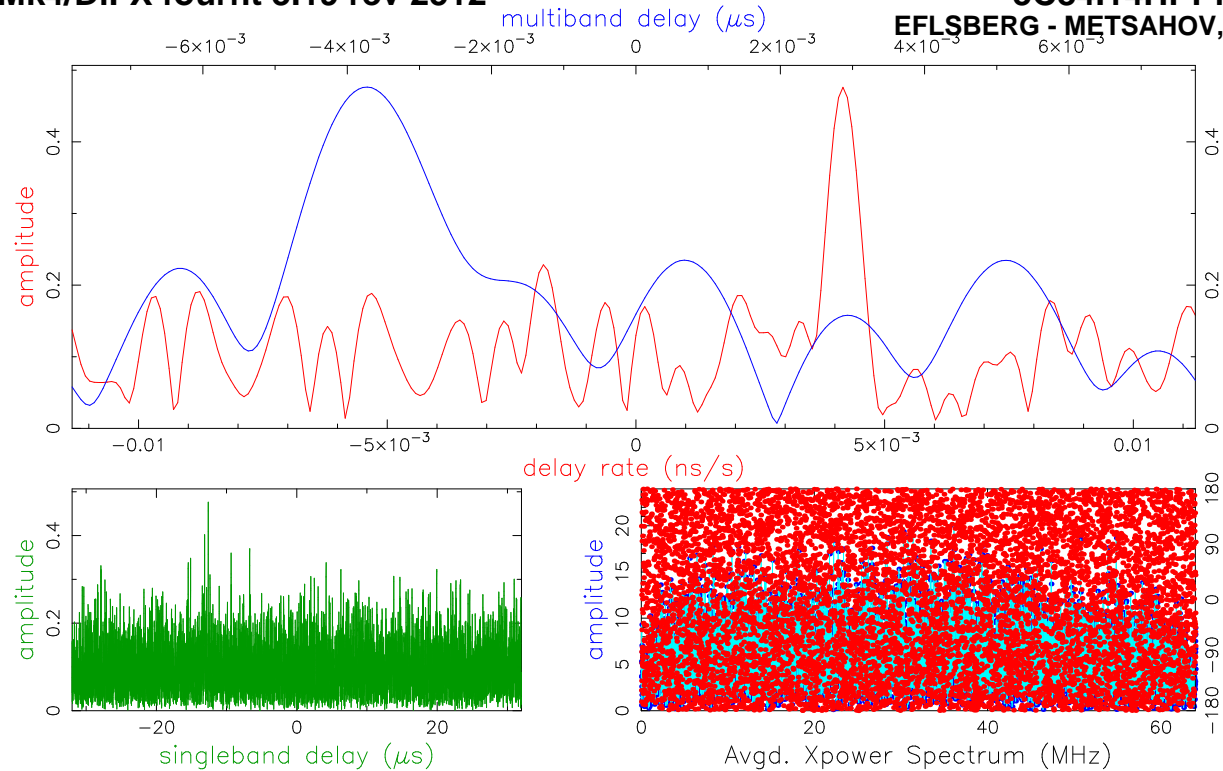
Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120020.48
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195016
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	74.4	57.9	95.3	82.6	45.3	87.5	89.0	65.5	Phase	71.6
B	0.7	0.8	0.5	0.5	0.7	0.6	0.2	0.5	Ampl.	0.5
Z	7358.3	11003.0	5965.9	5154.2	1503.2	13202.1	12019.0	869.2	Sbd box	7611.0
B:Z	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0	APs used	
B: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	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	7.51824902934E+02		Apriori delay (usec)		7.54094366417E+02		Resid mbdelay (usec)		-3.83848E-03	+/- 1.7E-04
Sband delay (usec)	7.51820822667E+02		Apriori clock (usec)		1.3992961E+01		Resid sbdelay (usec)		-2.27354E+00	+/- 1.4E-03
Phase delay (usec)	7.54094368725E+02		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		2.30774E-06	+/- 5.9E-07
Delay rate (us/s)	2.05645525703E-01		Apriori rate (us/s)		2.05649131479E-01		Resid rate (us/s)		-3.60578E-06	+/- 5.0E-08
Total phase (deg)	331.9		Apriori accel (us/s/s)		-1.11424468700E-05		Resid phase (deg)		71.6	+/- 18.3

ph/seg (deg) 57.4 57.8 Search (128X32) 0.495 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 92.6 100.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 19.0 25.8 Inc. seg. avg. 0.542 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.5 45.1 Inc. frq. avg. 0.506 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 134.2 el 78.1 pa -37.2 Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) -1587.061 -1403.691 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BZ..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BZ.W.3.14HPPM

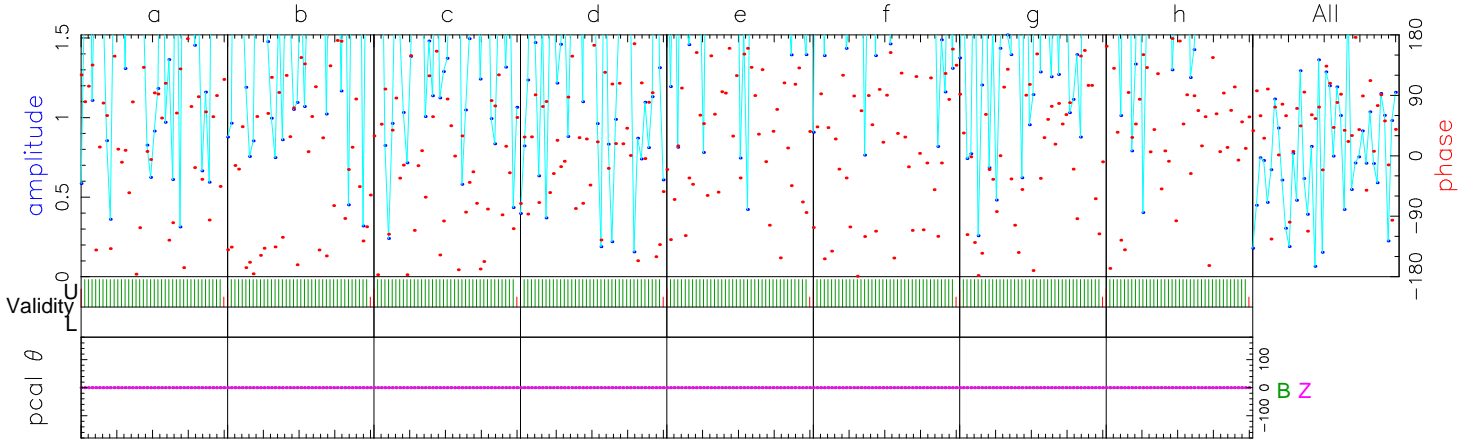


Fringe quality 0

SNR 5.9
Int time 19.973
Amp 0.507
Phase 62.4
PFD 9.1e-01
Delays (us)
SBD -12.610435
MBD -0.003771
Fringe rate (Hz)
0.355772
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120020.48
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195022
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec

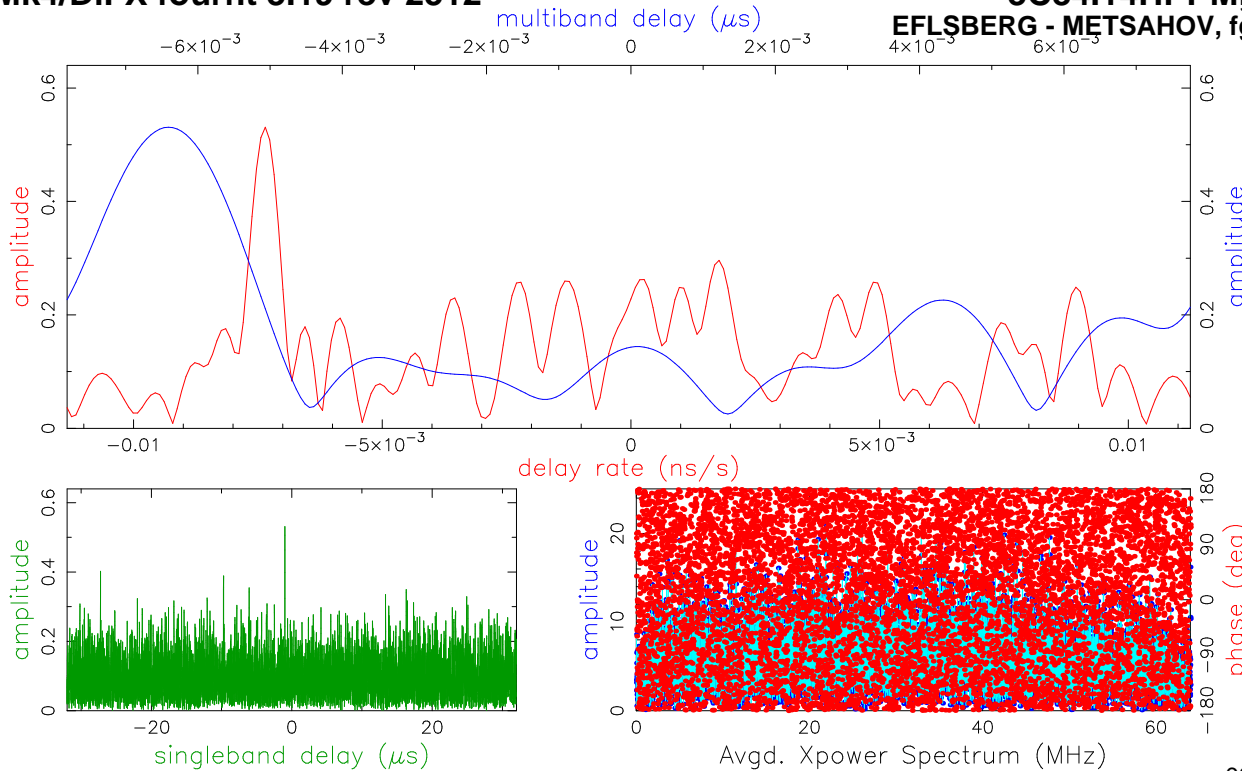


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	75.8	94.0	-14.3	13.1	82.8	67.3	67.4	66.7	Phase	62.4
	0.7	0.1	0.2	0.5	0.6	0.8	0.4	1.1	Ampl.	0.5
	1001.6	13864.9	16160.7	4232.8	7909.0	1444.1	4748.2	1484.5	Sbd box	4964.7
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 7.41481220075E+02 Apriori delay (usec) 7.54094366417E+02 Resid mbdelay (usec) -3.77134E-03 +/- 1.9E-04
 Sband delay (usec) 7.41483931667E+02 Apriori clock (usec) 1.3992961E+01 Resid sbdelay (usec) -1.26104E+01 +/- 1.5E-03
 Phase delay (usec) 7.54094368430E+02 Apriori clockrate (us/s) -2.1600000E-07 Resid phdelay (usec) 2.01323E-06 +/- 6.3E-07
 Delay rate (us/s) 2.05653261644E-01 Apriori rate (us/s) 2.05649131479E-01 Resid rate (us/s) 4.13017E-06 +/- 5.3E-08
 Total phase (deg) 322.8 Apriori accel (us/s/s) -1.11424468700E-05 Resid phase (deg) 62.4 +/- 19.6

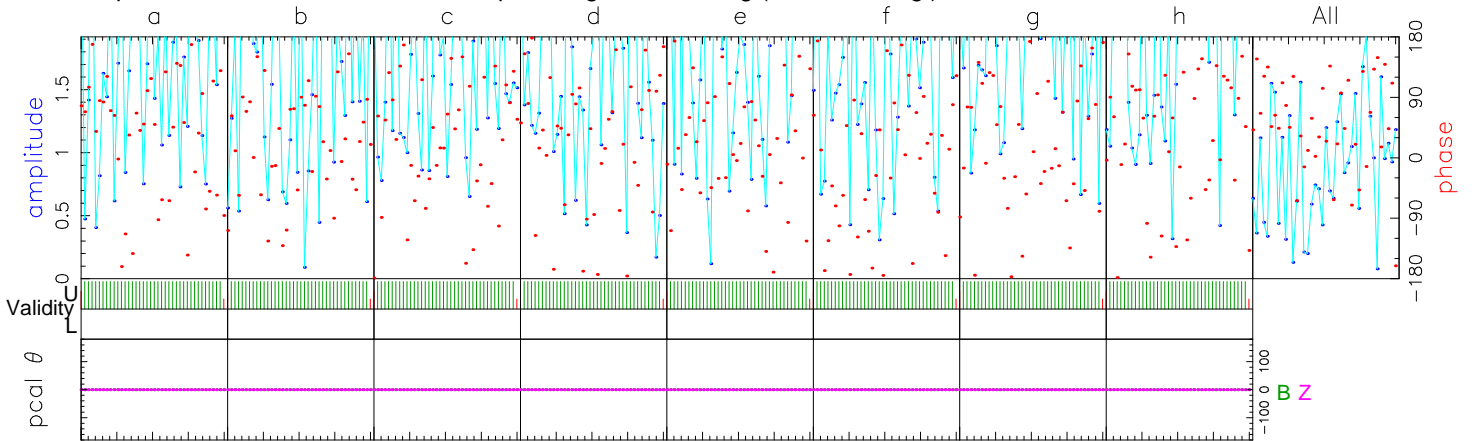
RMS Theor. Amplitude 0.507 +/- 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.6 61.8 Search (128X32) 0.468 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 97.4 107.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 40.8 27.7 Inc. seg. avg. 0.508 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 58.1 48.3 Inc. frq. avg. 0.500 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 134.2 el 78.1 pa -37.2 Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) -1587.061 -1403.691 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/BZ..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/BZ.W.6.14HPPM



Fringe quality 0
SNR 6.5
Int time 19.973
Amp 0.640
Phase 55.4
PFD 3.9e-02
Delays (us)
SBD -0.981387
MBD -0.006402
Fringe rate (Hz)
-0.637220
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. f201a
Exper # 16383
Yr:day 2020:114
Start 120000.00
Stop 120020.48
FRT 120300.00
Corr/FF/build
2020:114:192003
2020:114:195027
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

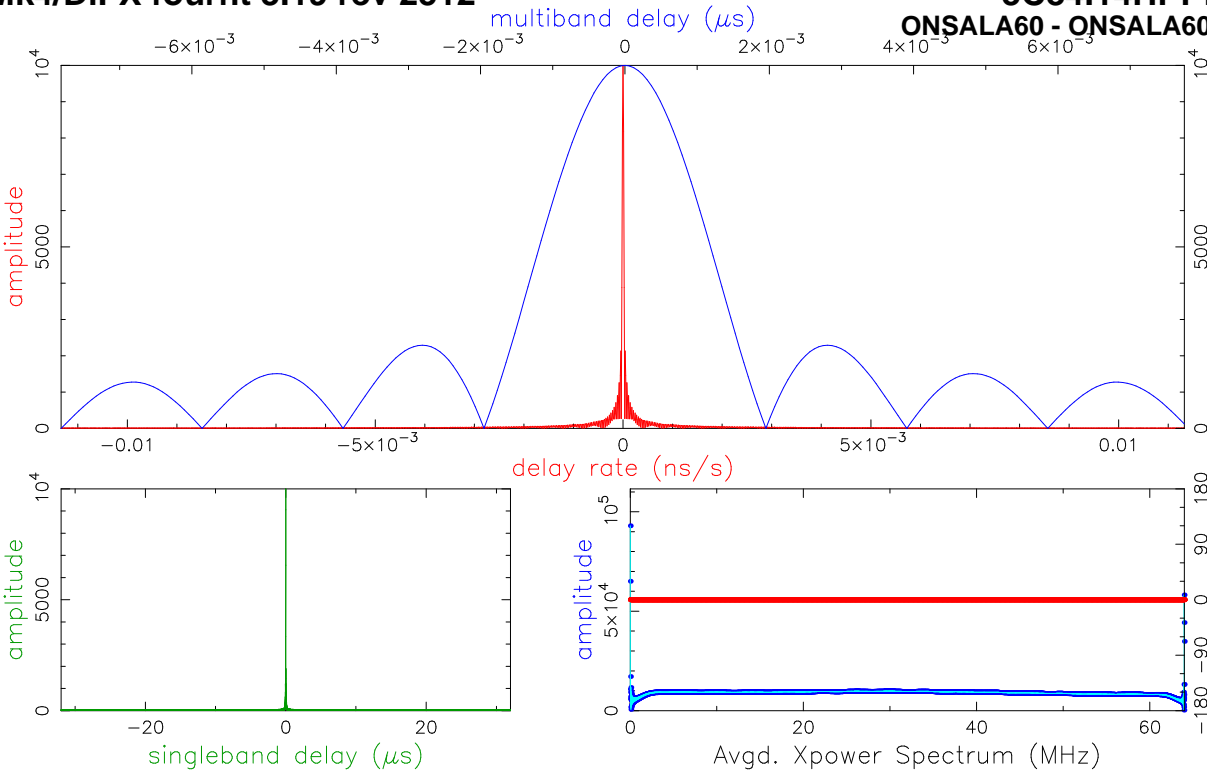
Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0		
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)		7.53119213960E+02			7.54094366417E+02					
Sband delay (usec)		7.53112979417E+02			1.3992961E+01					
Phase delay (usec)		7.54094368202E+02			-2.1600000E-07					
Delay rate (us/s)		2.05641733990E-01			2.05649131479E-01					
Total phase (deg)			315.7		-1.11424468700E-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										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude										
Search (128X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude										
Search (128X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude										
Search (128X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude										
Search (128X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14HPPM, No0001, XX
 ONŞALA60 - ONŞALA60, fgroup W, pol LL

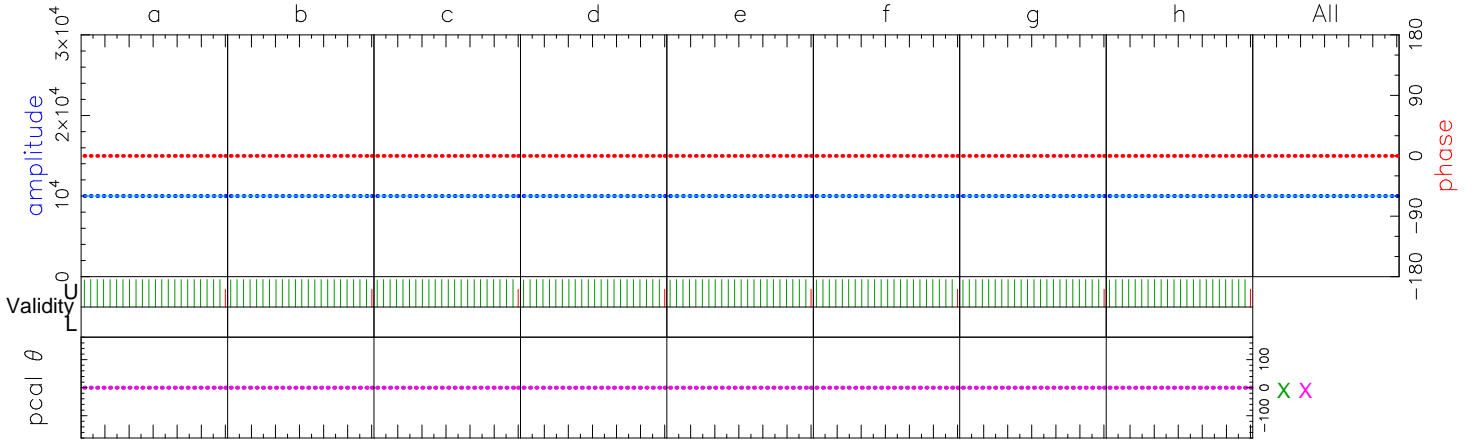


Fringe quality 9

SNR 518060.6
 Int time 358.894
 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. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.51
 Stop 120559.94
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195144
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

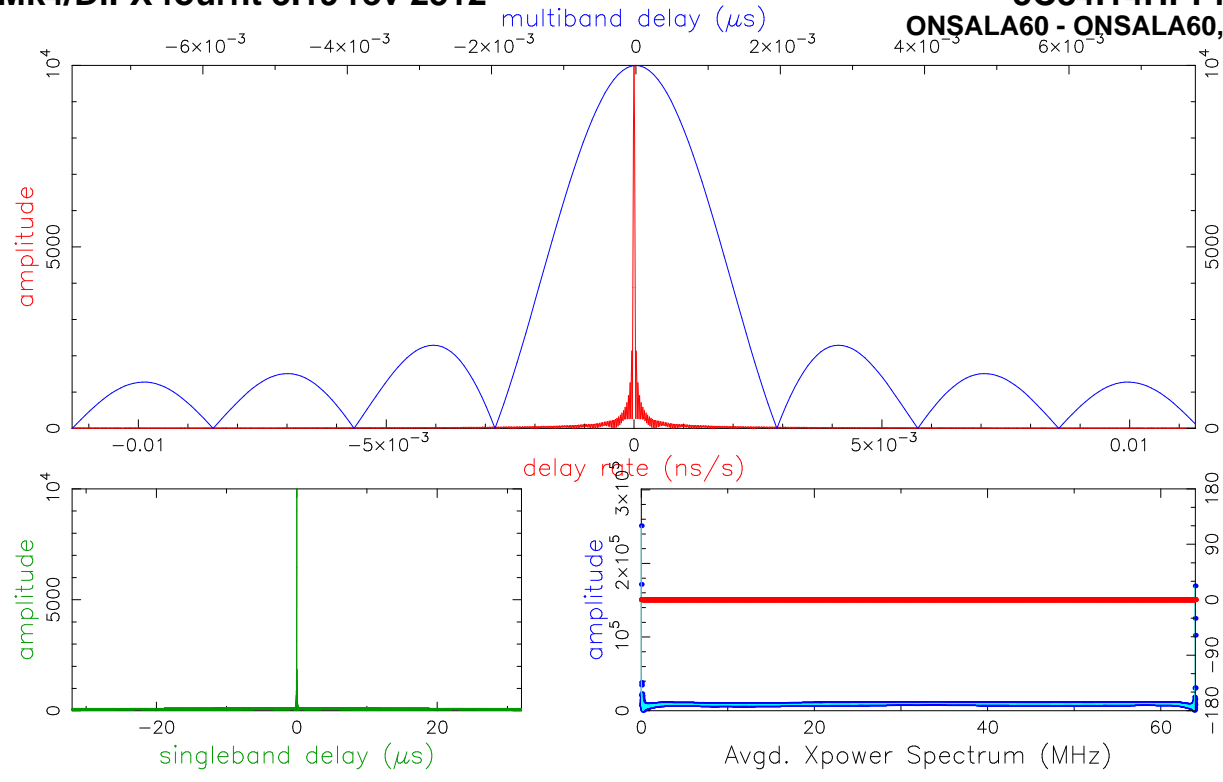
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-2.16725578177E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.16726E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-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 +/- 0.019 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) -32.000 32.000
 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
 X: az 162.9 el 73.7 pa -11.1 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/XX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/XX.W.17.14HPPM

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14HPPM, No0001, XX
 ONŞALA60 - ONŞALA60, fgroup W, pol RR

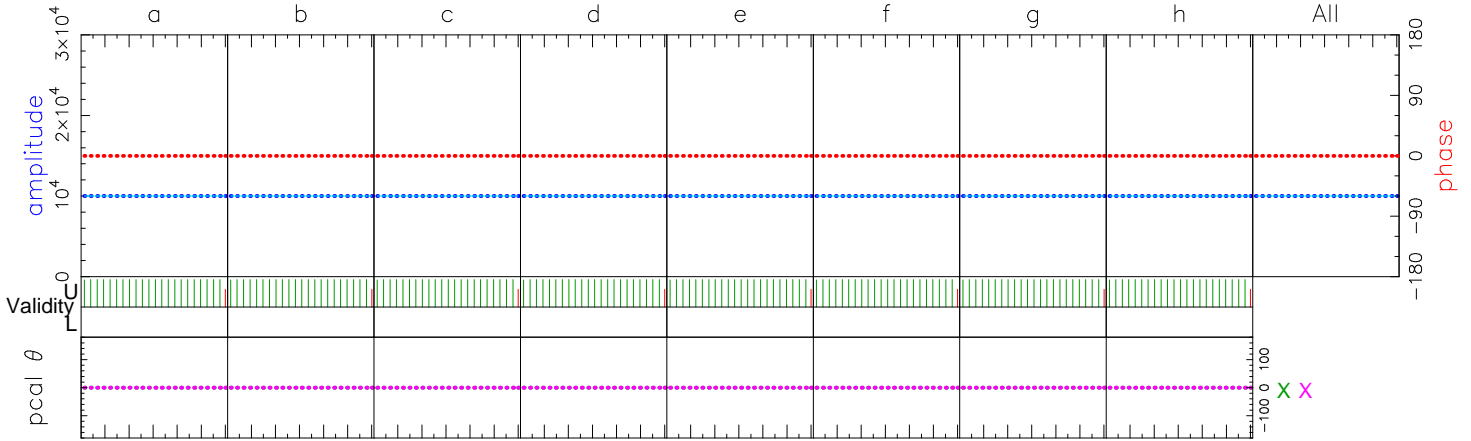


Fringe quality 9

SNR 518060.6
 Int time 358.894
 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. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.51
 Stop 120559.94
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195310
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



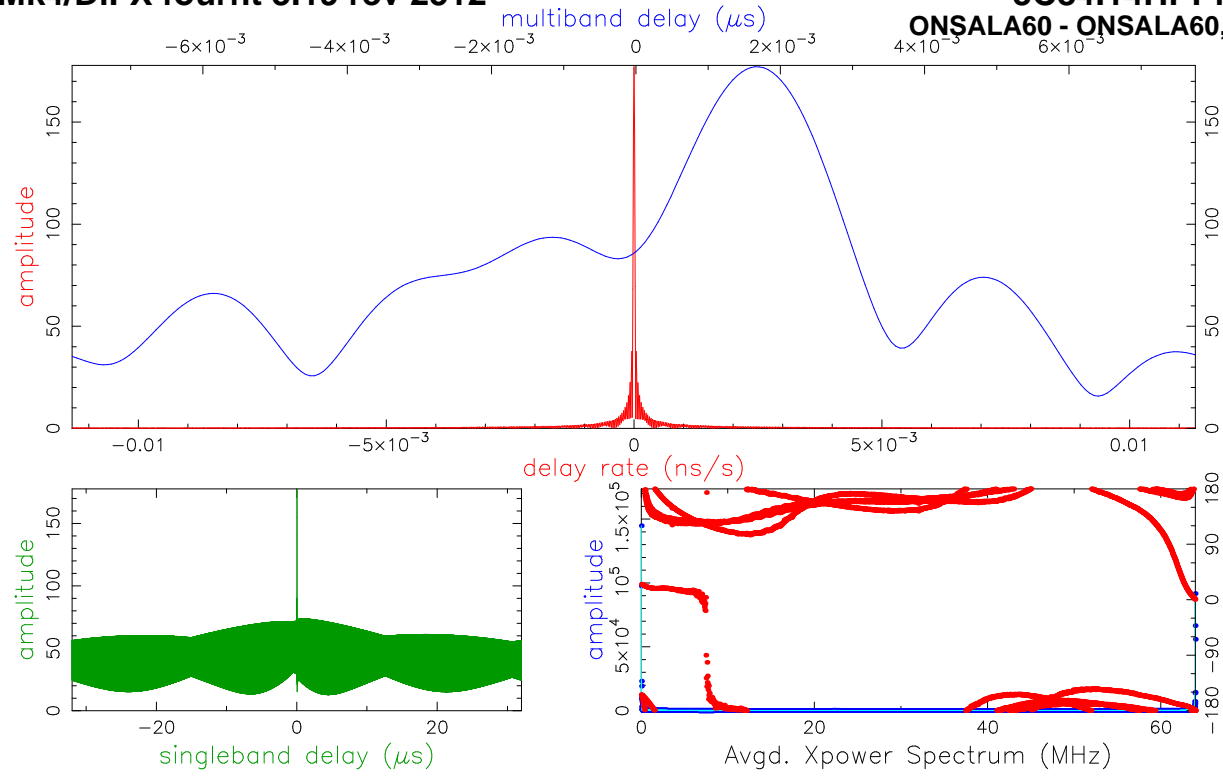
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
X	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	6.48882111592E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.48882E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	0.0	Theor.	0.0	Amplitude	10000.001 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.001	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000		
ph/frq (deg)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Inc. seg. avg.	10000.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. frq. avg.	10000.001	Inc. frq. avg.	10000.001	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	dr window (ns/s)	-0.011 0.011
								nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00		

X: az 162.9 el 73.7 pa -11.1 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/XX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/XX.W.21.14HPPM

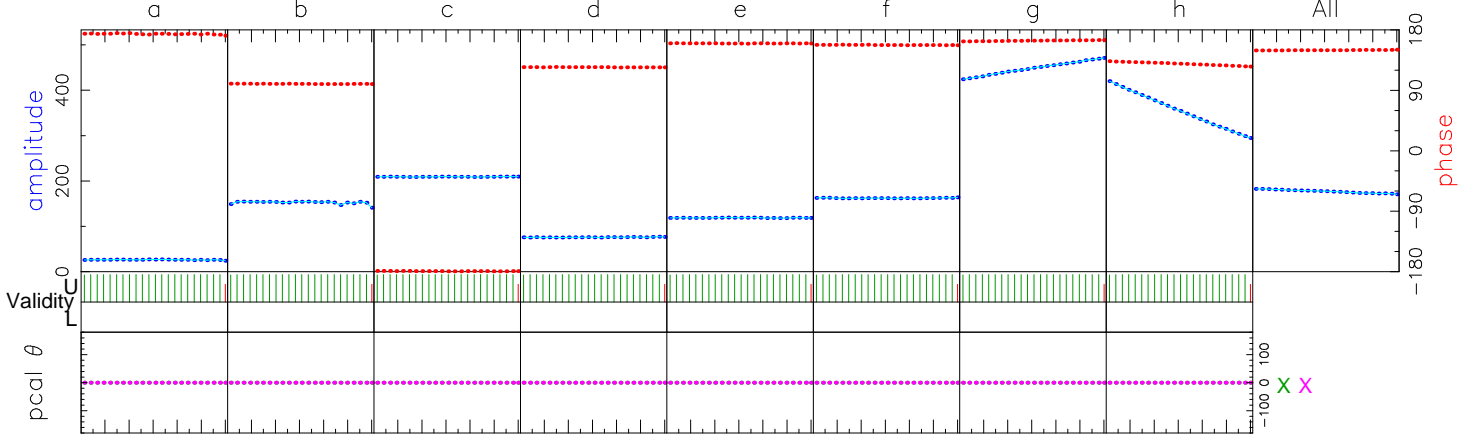


Fringe quality 5

SNR 9209.6
 Int time 358.894
 Amp 177.771
 Phase 149.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.030687
 MBD 0.001676
 Fringe rate (Hz) 0.000005
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f201a
 Yr:day 16383
 Start 2020:114
 Stop 120559.94
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195439
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.8	99.6	-179.0	124.3	159.8	157.4	163.8	129.7	Phase	149.7
	26.4	152.8	209.4	76.2	118.9	162.4	448.3	355.7	Ampl.	193.8
	8198.8	8202.8	8201.3	8201.3	8202.8	8200.7	8200.0	8201.8	Sbd box	8200.9
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	

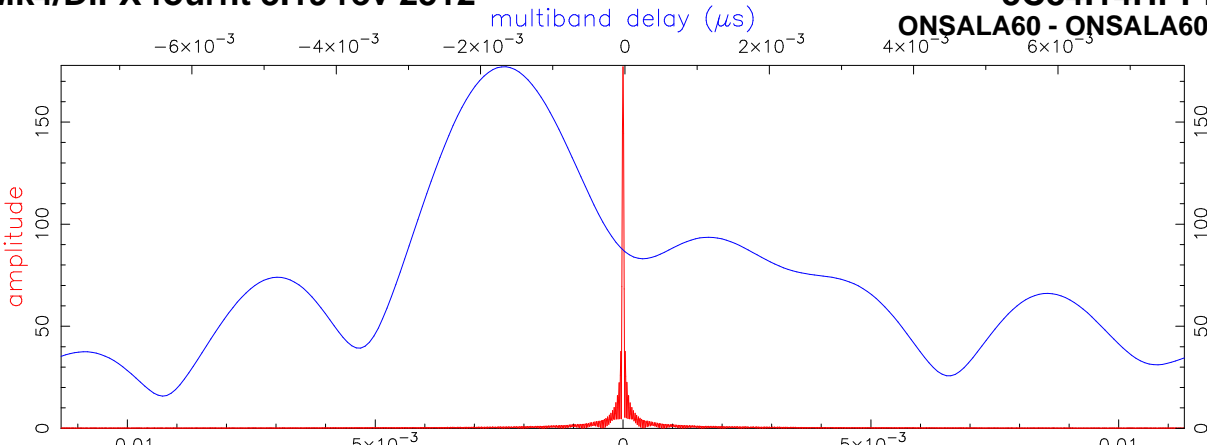
Group delay (usec)(sbd)	3.292593750000E-02	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	1.67594E-03	+/-	1.2E-07
Sband delay (usec)	3.068725000000E-02	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	3.06873E-02	+/-	9.4E-07
Phase delay (usec)	4.82722569242E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	4.82723E-06	+/-	4.0E-10
Delay rate (us/s)	6.30616281430E-11	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	6.30616E-11	+/-	1.9E-12
Total phase (deg)	149.7	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	149.7	+/-	0.0

ph/seg (deg)	0.3	RMS	Theor.	Amplitude	177.771 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	2.0	0.3	0.0	Search (2048X32)	174.498	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	30.2	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	75.3	0.0	0.0	Inc. seg. avg.	177.124	Sample rate (MSamp/s):	128	nlags: 8192 t_cohere infinite	dr window (ns/s)	-0.011 0.011
				Inc. frq. avg.	193.758	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

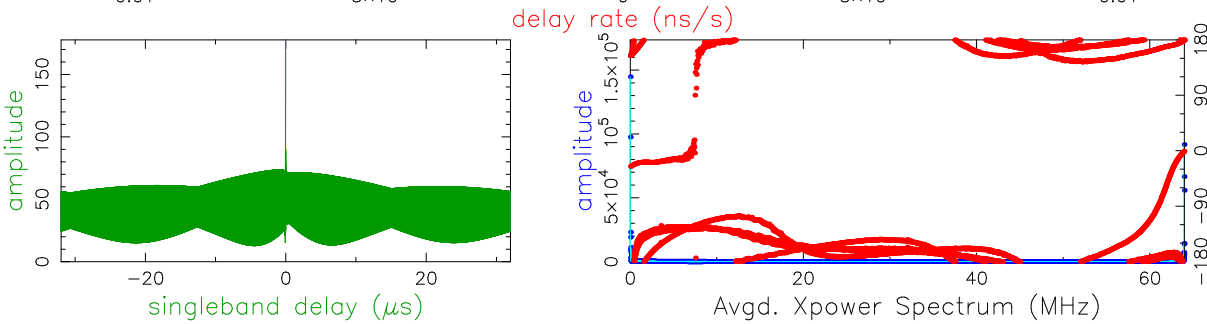
X: az 162.9 el 73.7 pa -11.1 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/XX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/XX.W.23.14HPPM

Fringe quality 5

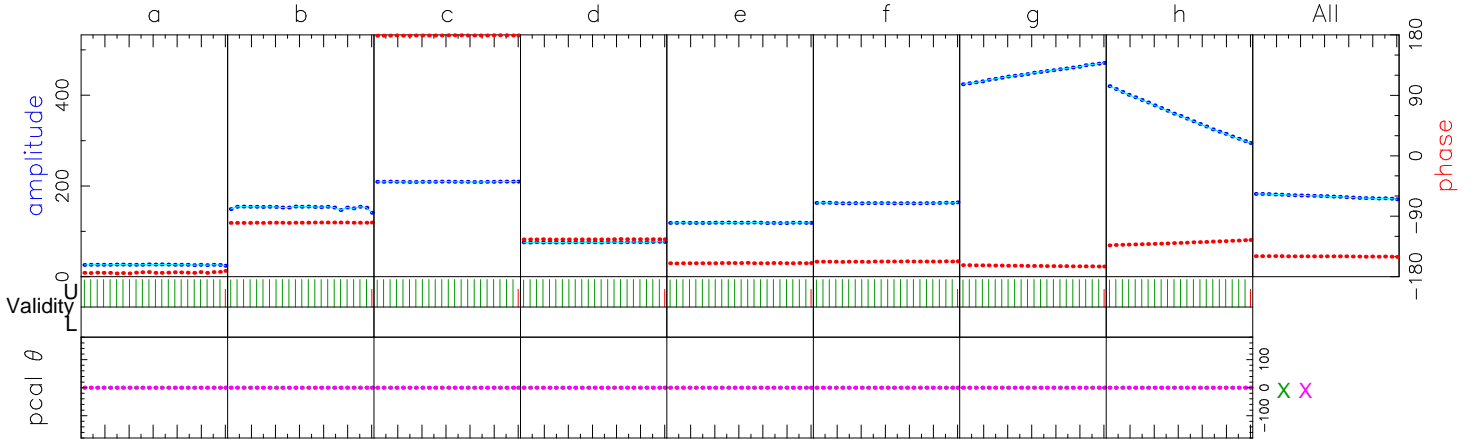


SNR 9209.6
 Int time 358.894
 Amp 177.771
 Phase -149.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.030687
 MBD -0.001676
 Fringe rate (Hz)
 -0.000005
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.51
 Stop 120559.94
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195607
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

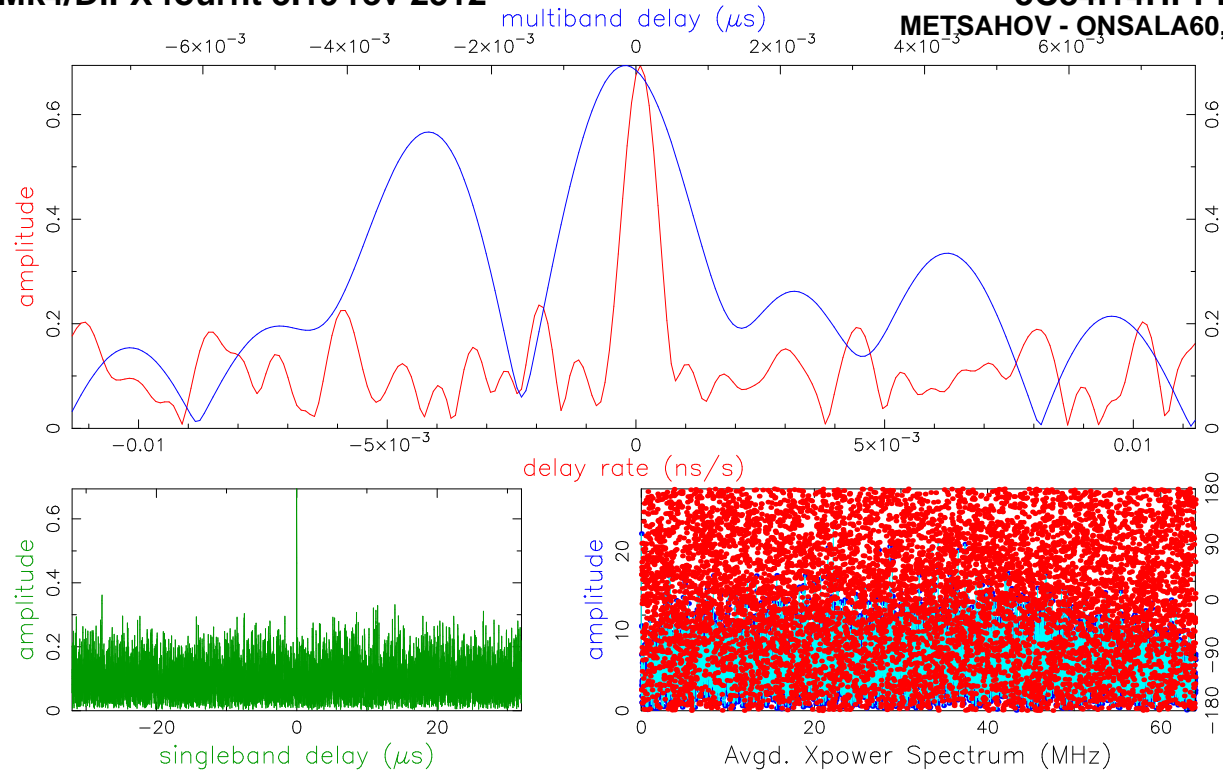


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-173.8	-99.6	179.0	-124.3	-159.8	-157.4	-163.8	-129.7	Phase	-149.7
	26.4	152.8	209.4	76.2	118.9	162.4	448.3	355.7	Ampl.	193.8
	8187.2	8183.2	8184.7	8184.7	8183.2	8185.3	8186.0	8184.2	Sbd box	8185.1
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -3.29259375000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -1.67594E-03 +/- 1.2E-07
 Sband delay (usec) -3.06872500000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -3.06873E-02 +/- 9.4E-07
 Phase delay (usec) -4.82722569243E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -4.82723E-06 +/- 4.0E-10
 Delay rate (us/s) -6.30616281430E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -6.30616E-11 +/- 1.9E-12
 Total phase (deg) -149.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -149.7 +/- 0.0

RMS Theor. Amplitude 177.771 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.3 0.0 Search (2048X32) 174.498 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 2.0 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 30.2 0.0 Inc. seg. avg. 177.124 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 75.3 0.0 Inc. frq. avg. 193.758 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 162.9 el 73.7 pa -11.1 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/XX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/XX.W.24.14HPPM

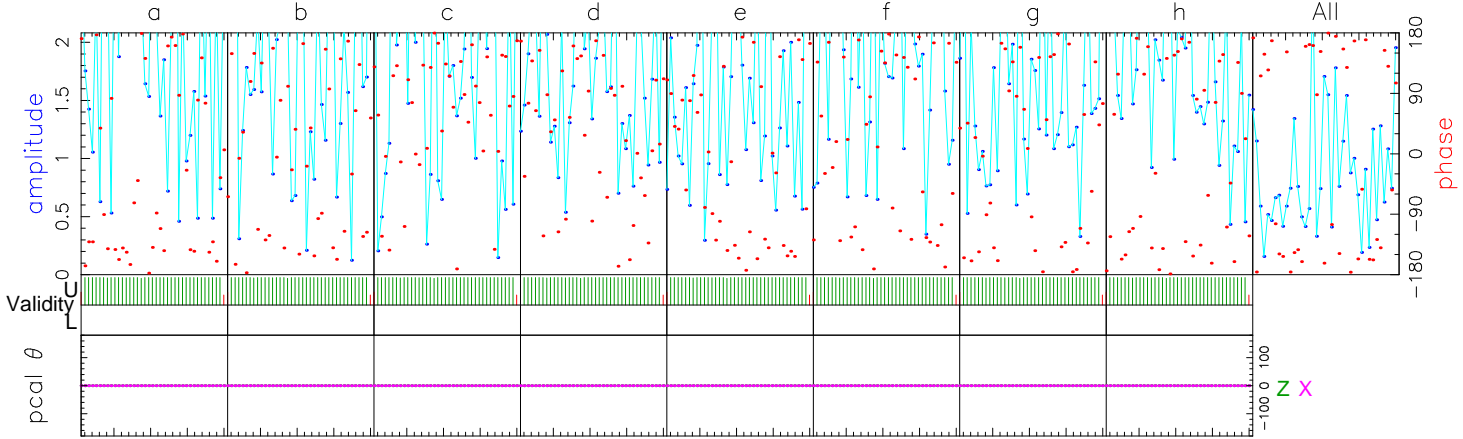


Fringe quality 9

SNR 8.3
 Int time 19.339
 Amp 0.694
 Phase 178.8
 PFD 5.0e-08
 Delays (us)
 SBD -0.015868
 MBD -0.000152
 Fringe rate (Hz) 0.010050
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f201a
 Yr:day 16383
 Start 2020:114
 Stop 2020:114:192003
 FRT 120300.00
 Corr/FF/build
 2020:114:195032
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 39 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



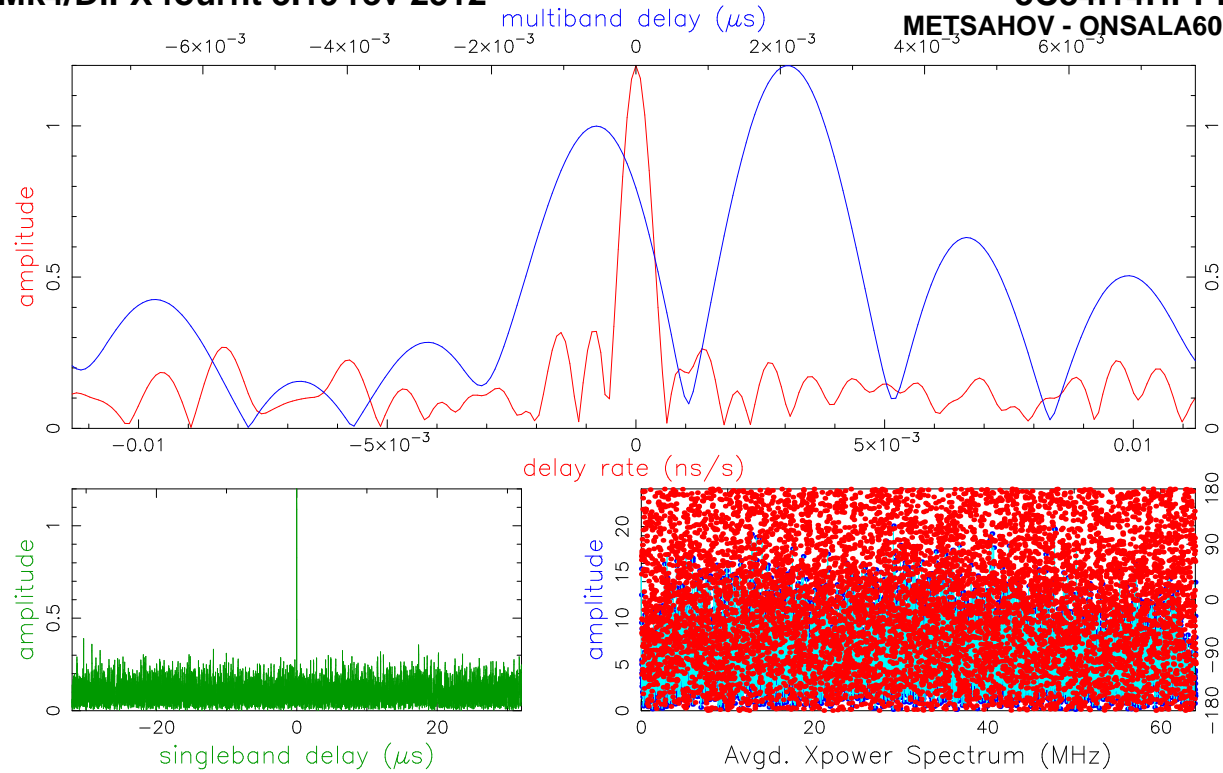
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-153.5	-178.4	105.0	104.3	-161.0	-154.1	174.1	-175.1	Phase	178.8
	1.4	0.8	0.8	0.5	0.6	0.9	0.8	1.1	Ampl.	0.8
	8188.3	7090.0	12620.0	10368.3	14421.9	2268.7	767.7	8189.5	Sbd box	8188.9
U/L	39/0	39/0	39/0	39/0	39/0	39/0	39/0	39/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.66707778780E+02	Apriori delay (usec)	-3.66692001716E+02	Resid mbdelay (usec)	-1.52063E-04	+/-	1.3E-04
Sband delay (usec)	-3.66707869716E+02	Apriori clock (usec)	-4.0763092E+01	Resid sbdelay (usec)	-1.58680E-02	+/-	1.0E-03
Phase delay (usec)	-3.66691995950E+02	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	5.76622E-06	+/-	4.4E-07
Delay rate (us/s)	-1.30263254494E-01	Apriori rate (us/s)	-1.30263371162E-01	Resid rate (us/s)	1.16668E-07	+/-	3.8E-08
Total phase (deg)		Apriori accel (us/s/s)	3.64970611586E-06	Resid phase (deg)	178.8	+/-	13.7

ph/seg (deg)	47.1	Theor.	42.9	Amplitude	0.694 +/- 0.083	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	79.7	Search (128X32)	0.671	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000	32.000	
ph/frq (deg)	46.5	Inc. seg. avg.	0.680	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	42.7	Inc. frq. avg.	0.808	Sample rate (MSamp/s):	128	nlags: 8192 t_cohere infinite	dr window (ns/s)	-0.011	0.011

Z: az 194.1 el 71.0 pa 10.7 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 1001.507 417.198 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZX.W.11.14HPPM

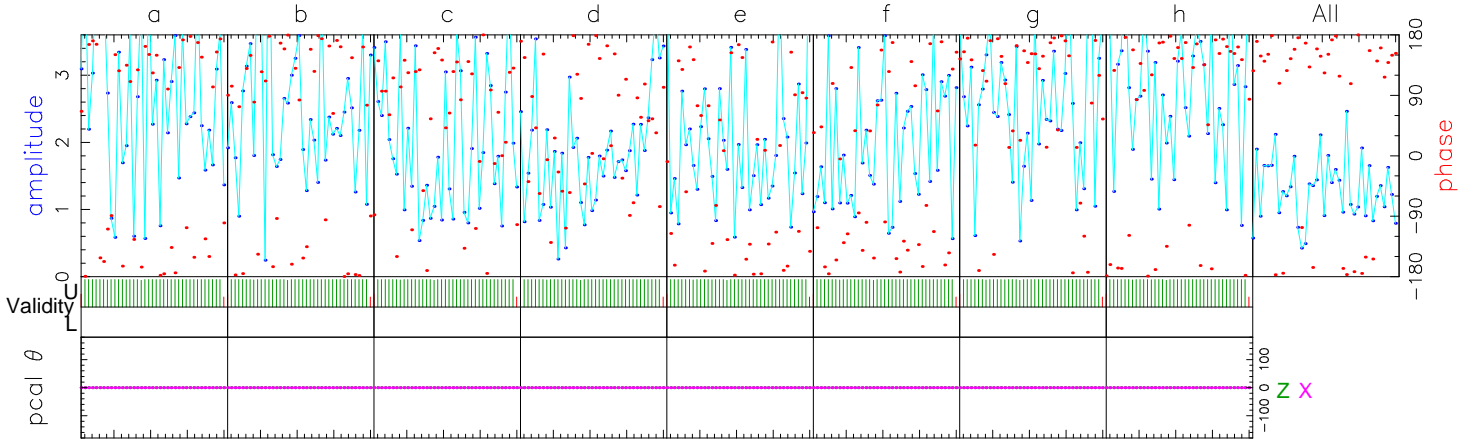


Fringe quality 7

SNR 14.4
 Int time 19.339
 Amp 1.200
 Phase 160.2
 PFD 4.0e-38
 Delays (us)
 SBD -0.012059
 MBD 0.002099
 Fringe rate (Hz)
 0.001809
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.51
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195016
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 39 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec

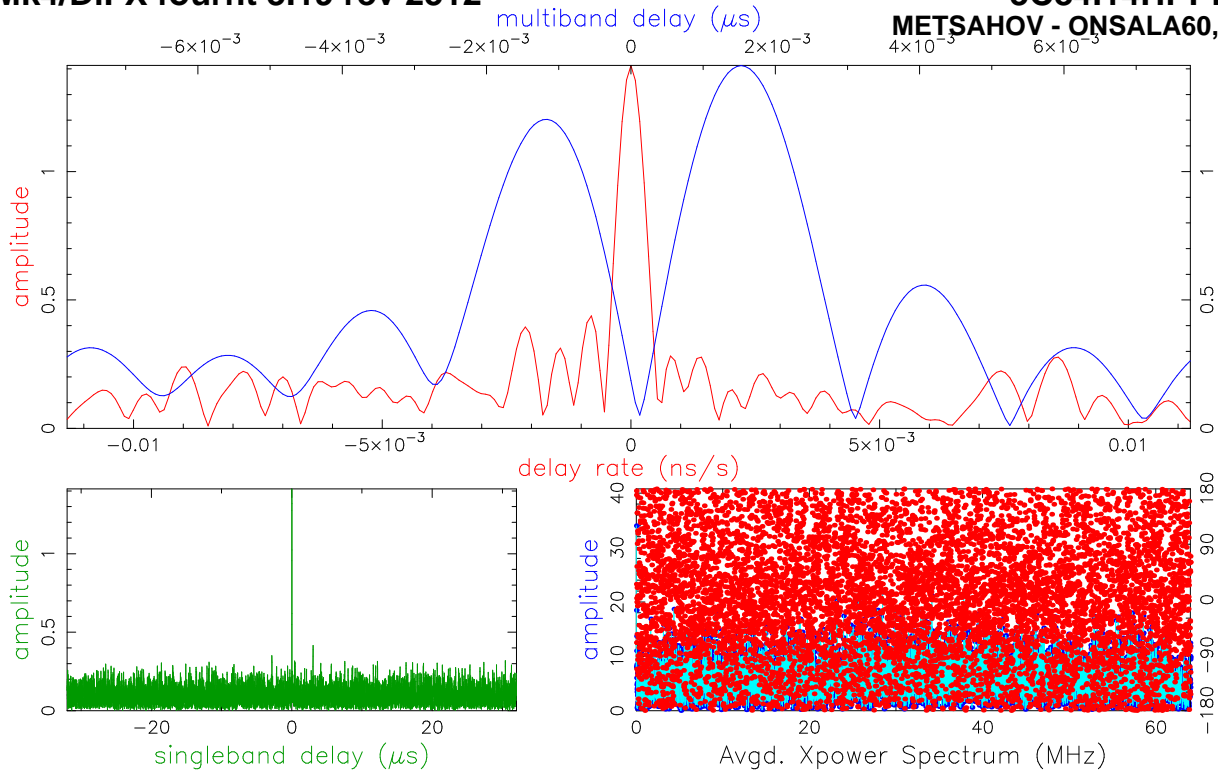


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	172.8	163.3	119.1	47.1	162.6	-155.5	147.0	165.3	Phase	160.2
	2.1	1.9	1.1	0.5	0.5	1.0	1.7	2.2	Ampl.	1.3
	8189.6	8189.6	8188.6	2792.3	2098.8	5850.8	8189.7	8190.0	Sbd box	8189.9
U/L	39/0	39/0	39/0	39/0	39/0	39/0	39/0	39/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	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)	-3.66705527935E+02		Apriori delay (usec)		-3.66692001716E+02		Resid mbdelay (usec)		2.09878E-03	+/- 7.5E-05
Sband delay (usec)	-3.66704060966E+02		Apriori clock (usec)		-4.0763092E+01		Resid sbdelay (usec)		-1.20592E-02	+/- 6.0E-04
Phase delay (usec)	-3.66691996552E+02		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		5.16469E-06	+/- 2.6E-07
Delay rate (us/s)	-1.30263350166E-01		Apriori rate (us/s)		-1.30263371162E-01		Resid rate (us/s)		2.09960E-08	+/- 2.2E-08
Total phase (deg)	150.1		Apriori accel (us/s/s)		3.64970611586E-06		Resid phase (deg)		160.2	+/- 7.9

ph/seg (deg) RMS Theor. Amplitude 1.200 +/- 0.083 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.4 24.8 Search (128X32) 1.179 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 39.8 43.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.9 11.2 Inc. seg. avg. 1.216 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 194.1 el 71.0 pa 10.7 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 1001.507 417.198 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZX.W.2.14HPPM

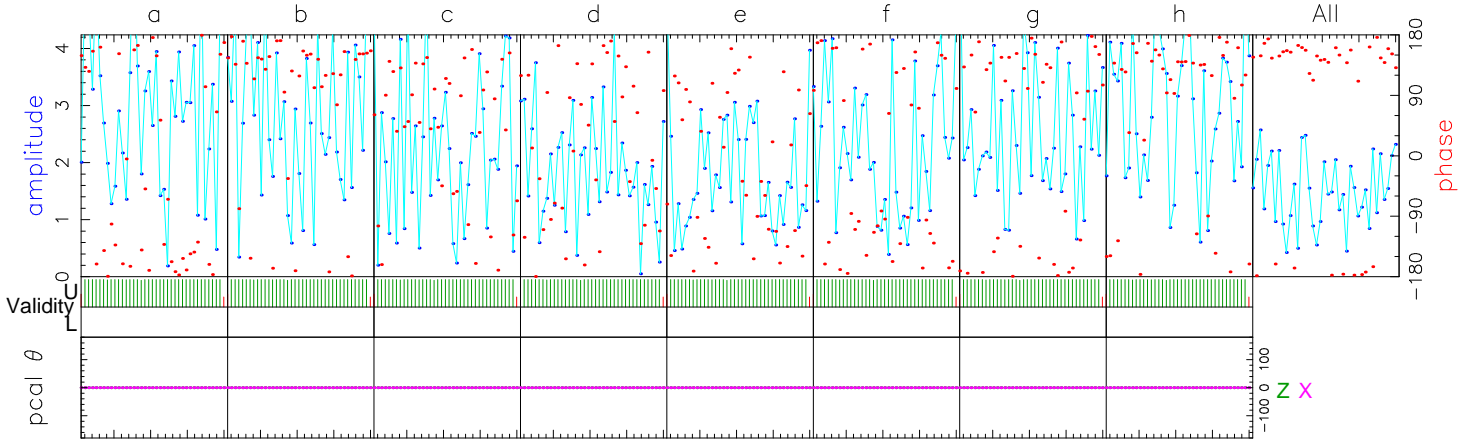


Fringe quality 7

SNR 17.0
 Int time 19.339
 Amp 1.414
 Phase 159.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.016002
 MBD 0.001533
 Fringe rate (Hz) 0.000097
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

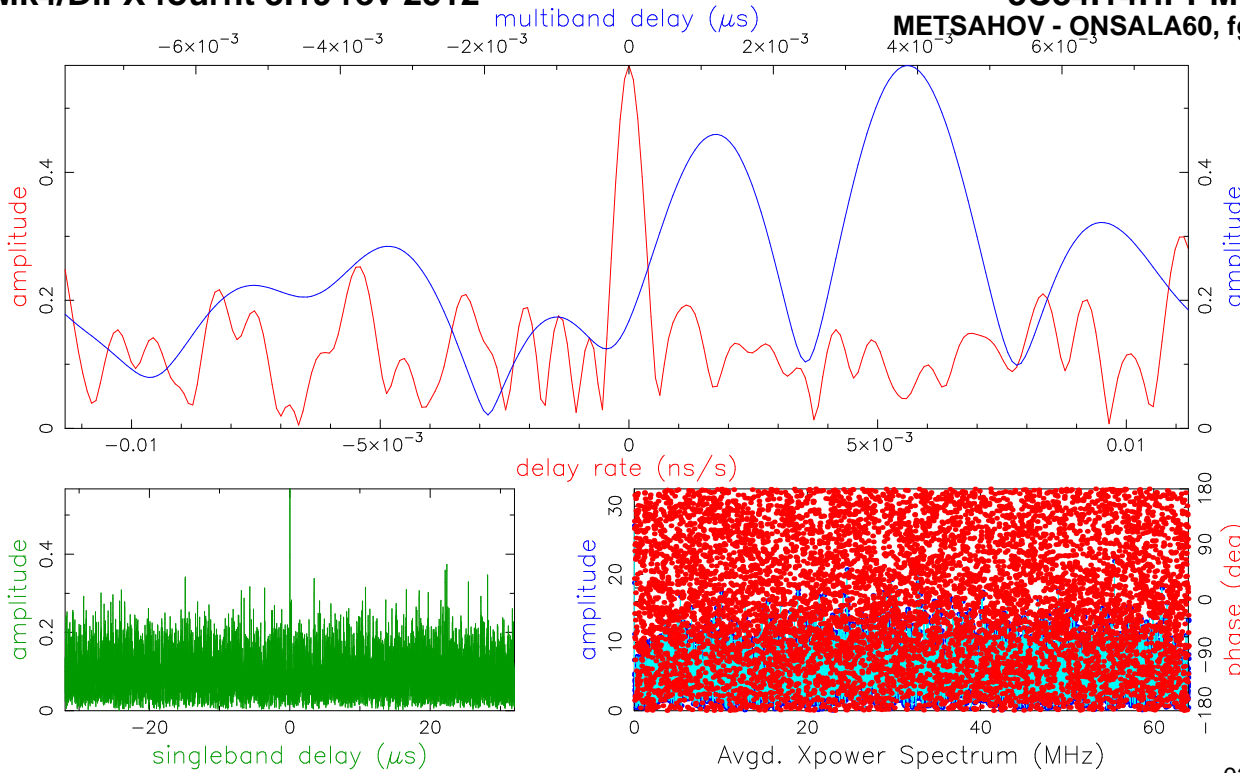
Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.51
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195021
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 39 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.8	149.5	112.3	131.2	-161.3	-172.1	161.7	150.9	Phase	159.3
	2.3	2.4	1.2	0.4	0.3	1.5	1.9	2.3	Ampl.	1.5
	8196.4	8196.8	8195.9	6055.1	7847.2	8196.2	8197.2	8197.3	Sbd box	8197.1
U/L	39/0	39/0	39/0	39/0	39/0	39/0	39/0	39/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	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)	-3.66674843404E+02		Apriori delay (usec)		-3.66692001716E+02		Resid mbdelay (usec)		1.53331E-03	+/- 6.4E-05
Sband delay (usec)	-3.66676000216E+02		Apriori clock (usec)		-4.0763092E+01		Resid sbdelay (usec)		1.60015E-02	+/- 5.1E-04
Phase delay (usec)	-3.66691996578E+02		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		5.13806E-06	+/- 2.2E-07
Delay rate (us/s)	-1.30263370039E-01		Apriori rate (us/s)		-1.30263371162E-01		Resid rate (us/s)		1.12236E-09	+/- 1.9E-08
Total phase (deg)	149.3		Apriori accel (us/s/s)		3.64970611586E-06		Resid phase (deg)		159.3	+/- 6.7

ph/seg (deg) 21.2 21.0 Search (128X32) 1.409 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.9 36.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 31.5 9.5 Inc. seg. avg. 1.410 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.5 16.6 Inc. frq. avg. 1.501 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 194.1 el 71.0 pa 10.7 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 1001.507 417.198 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZX.W.5.14HPPM

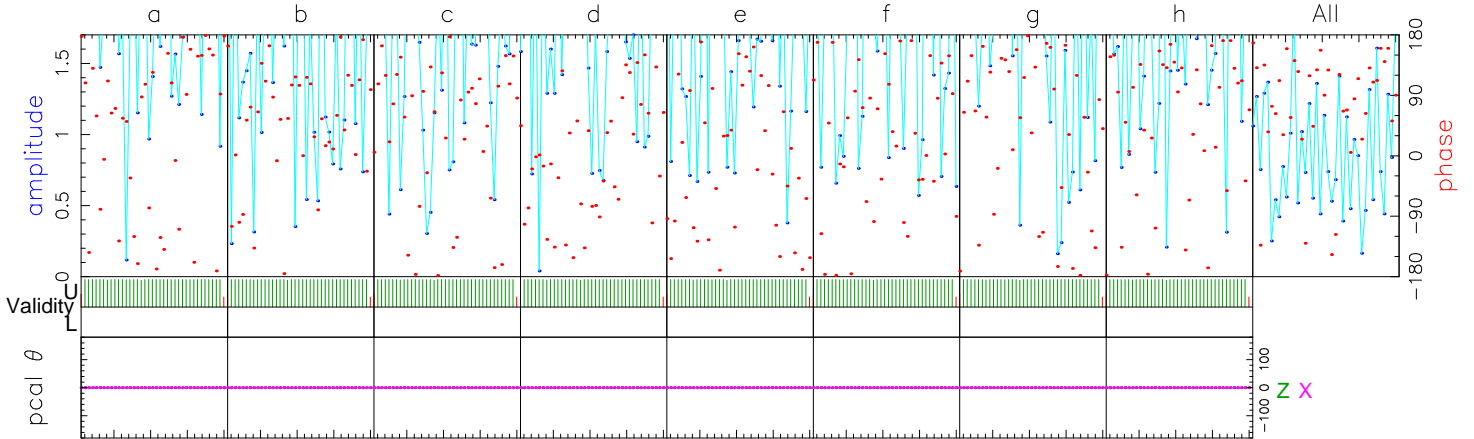


Fringe quality 0

SNR 6.8
 Int time 19.339
 Amp 0.567
 Phase 111.3
 PFD 5.4e-03
 Delays (us)
 SBD 0.019345
 MBD 0.003856
 Fringe rate (Hz)
 -0.000175
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

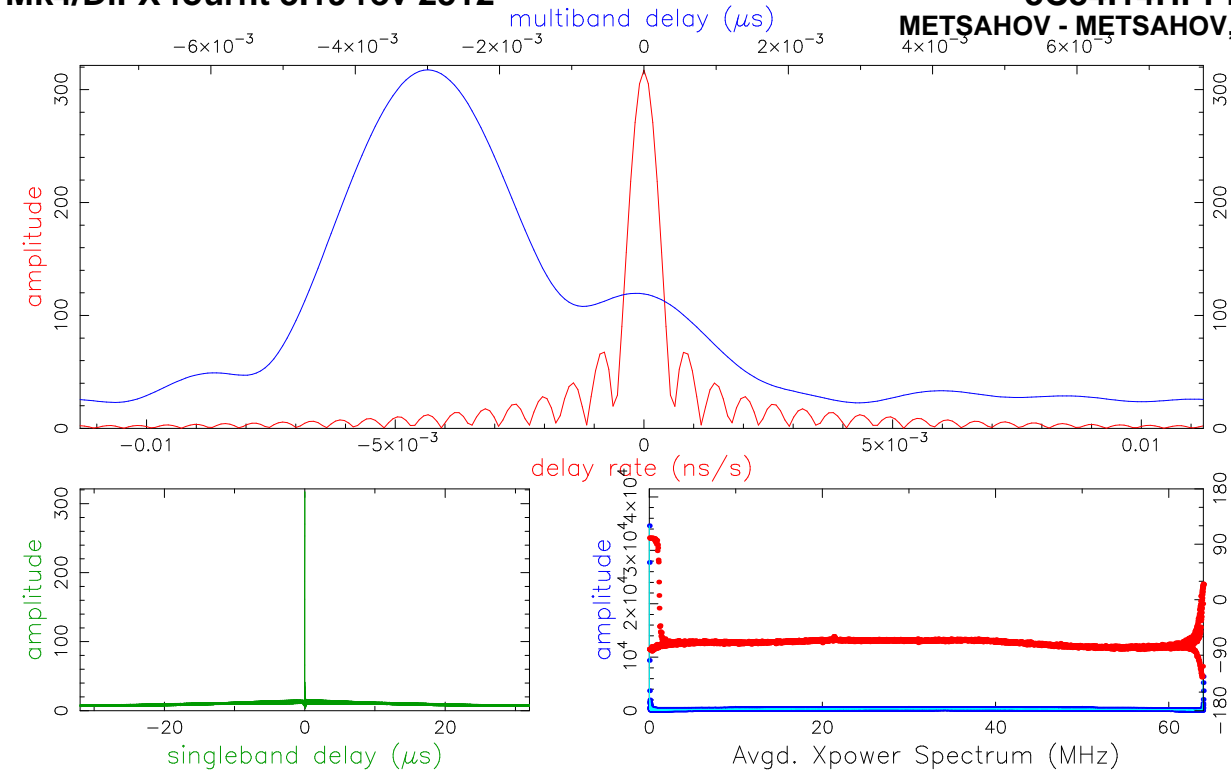
Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.51
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195027
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 39 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	148.6	77.5	109.7	-29.1	122.2	87.5	125.7	122.5	Phase	111.3
	1.0	0.9	0.9	0.4	0.1	0.6	0.9	0.9	Ampl.	0.7
	8196.6	2695.4	15472.0	6850.5	10643.9	15999.0	8848.8	5071.5	Sbd box	8198.0
U/L	39/0	39/0	39/0	39/0	39/0	39/0	39/0	39/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	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)	-3.66672520373E+02		Apriori delay (usec)		-3.66692001716E+02		Resid mbdelay (usec)		3.85634E-03	+/- 1.6E-04
Sband delay (usec)	-3.66672656466E+02		Apriori clock (usec)		-4.0763092E+01		Resid sbdelay (usec)		1.93452E-02	+/- 1.3E-03
Phase delay (usec)	-3.66691998127E+02		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		3.58946E-06	+/- 5.4E-07
Delay rate (us/s)	-1.30263373191E-01		Apriori rate (us/s)		-1.30263371162E-01		Resid rate (us/s)		-2.02931E-09	+/- 4.7E-08
Total phase (deg)	101.3		Apriori accel (us/s/s)		3.64970611586E-06		Resid phase (deg)		111.3	+/- 16.8

ph/seg (deg) 58.8 52.5 Search (128X32) 0.566 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.5 91.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 62.3 23.8 Inc. seg. avg. 0.614 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 58.3 41.5 Inc. frq. avg. 0.663 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 194.1 el 71.0 pa 10.7 X: az 162.9 el 73.7 pa -11.1 u,v (fr/asec) 1001.507 417.198 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZX..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZX.W.8.14HPPM

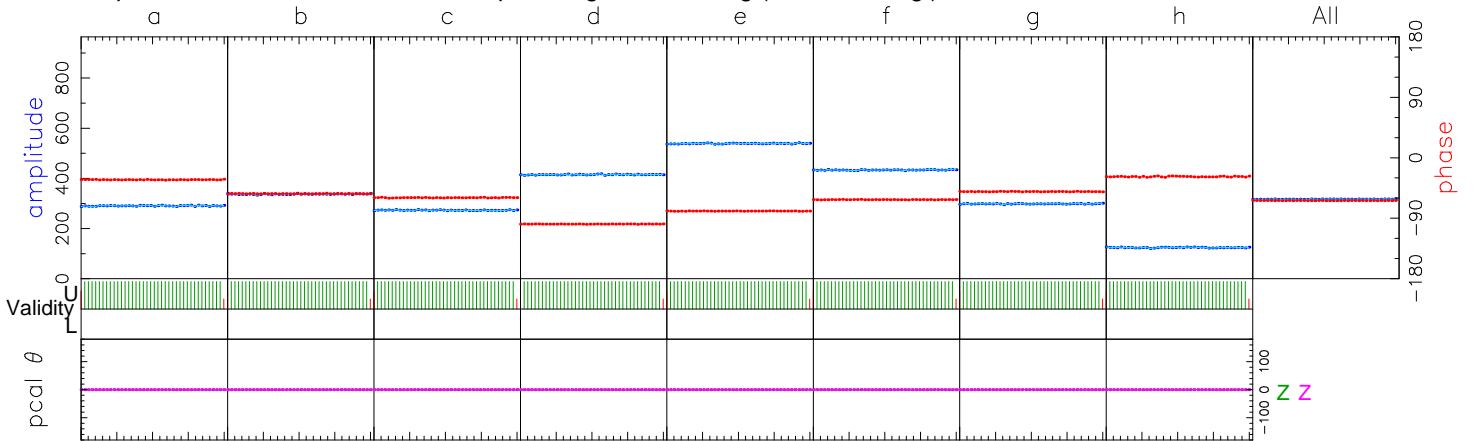


Fringe quality 6

SNR 3929.1
 Int time 19.973
 Amp 321.500
 Phase -63.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.002375
 MBD -0.002941
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.00
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build 2020:114:192003
 2020:114:195032
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-2.94121875000E-03			0.00000000000E+00				Resid mbdelay (usec)	-2.94122E-03 +/- 2.8E-07
Sband delay (usec)		-2.37525000000E-03			0.0000000E+00				Resid sbdelay (usec)	-2.37525E-03 +/- 2.2E-06
Phase delay (usec)		-2.05450971703E-06			0.0000000E+00				Resid phdelay (usec)	-2.05451E-06 +/- 9.4E-10
Delay rate (us/s)		0.00000000000E+00			0.00000000000E+00				Resid rate (us/s)	0.00000E+00 +/- 8.0E-11
Total phase (deg)			-63.7						Resid phase (deg)	-63.7 +/- 0.0

ph/seg (deg) 0.1 0.1
 amp/seg (%) 1.3 0.2
 ph/frq (deg) 25.8 0.0
 amp/frq (%) 36.7 0.1

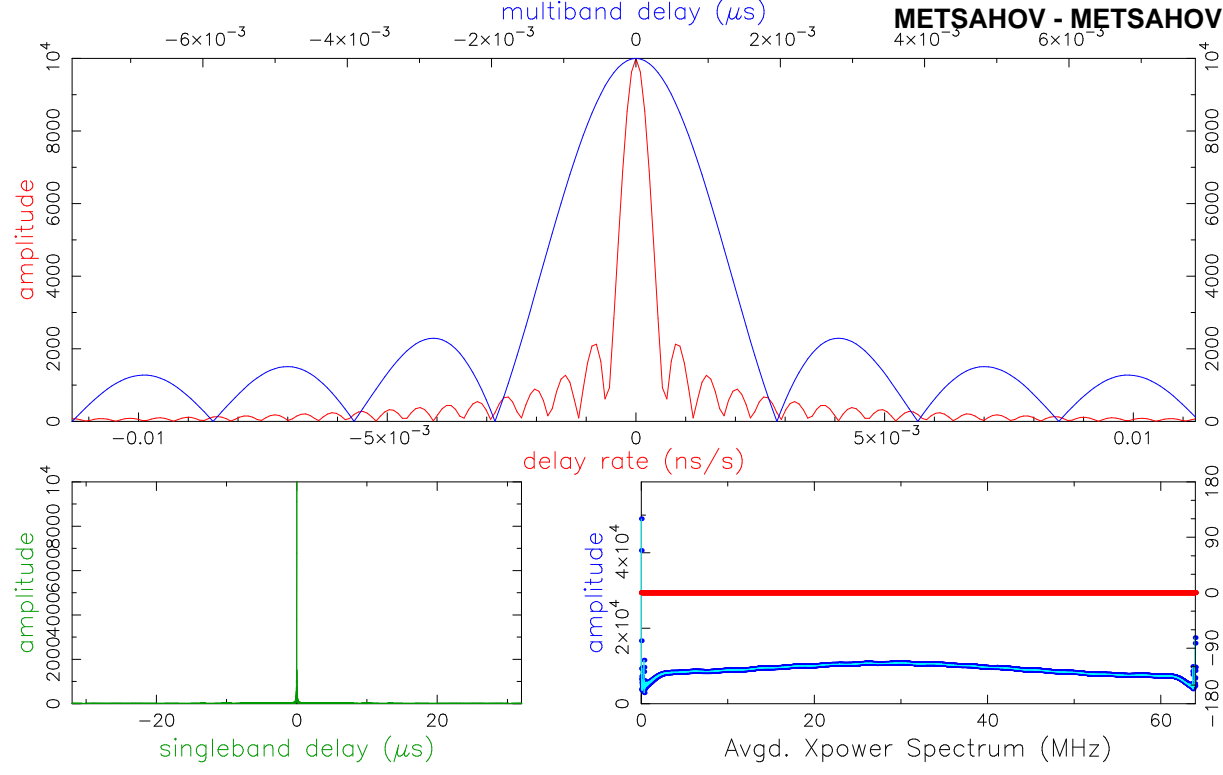
RMS Theor. Amplitude 321.500 +/- 0.082
 Search (128X32) 317.089
 Interp. 0.000
 Inc. seg. avg. 317.228
 Inc. frq. avg. 338.966

PCAL mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MISamp/s): 128
 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite

sb window (us) -32.000 32.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

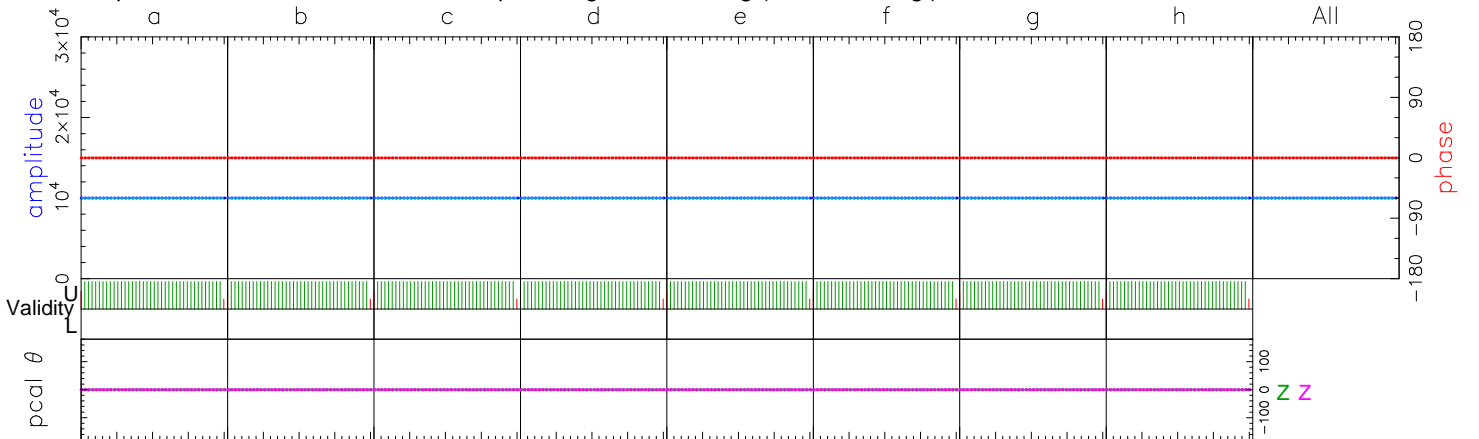
Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZZ..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZZ.W.10.14HPPM



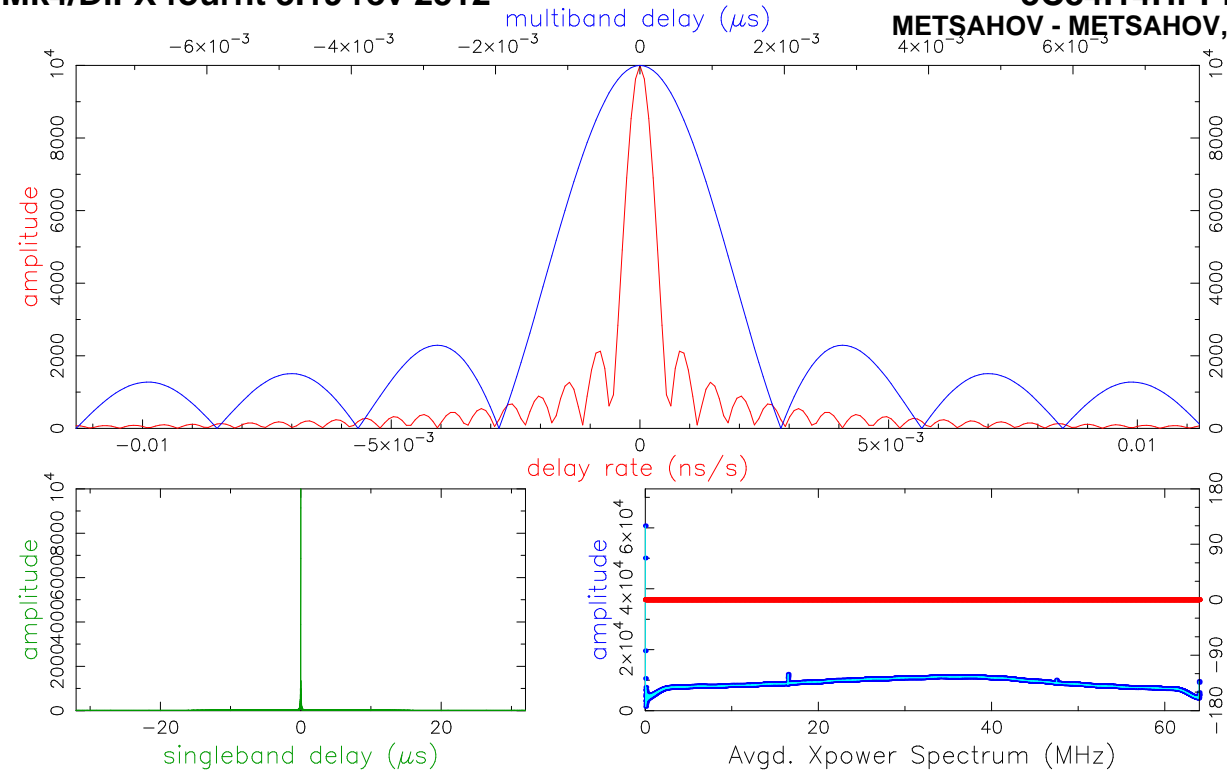
Fringe quality 9
 SNR 122212.5
 Int time 19.973
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.00
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195016
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0	8193.0	8193.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	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	+/- 8.9E-09
Sband delay (usec)	0.0000000000E+00		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		0.00000E+00	+/- 7.0E-08
Phase delay (usec)	2.58883647635E-19		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.58884E-19	+/- 3.0E-11
Delay rate (us/s)	0.0000000000E+00		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		0.00000E+00	+/- 2.6E-12
Total phase (deg)	0.0		Apriori accel (us/s/s)		0.0000000000E+00		Resid phase (deg)		0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.082 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (128X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 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 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 194.1 el 71.0 pa 10.7 Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZZ..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZZ.W.1.14HPPM

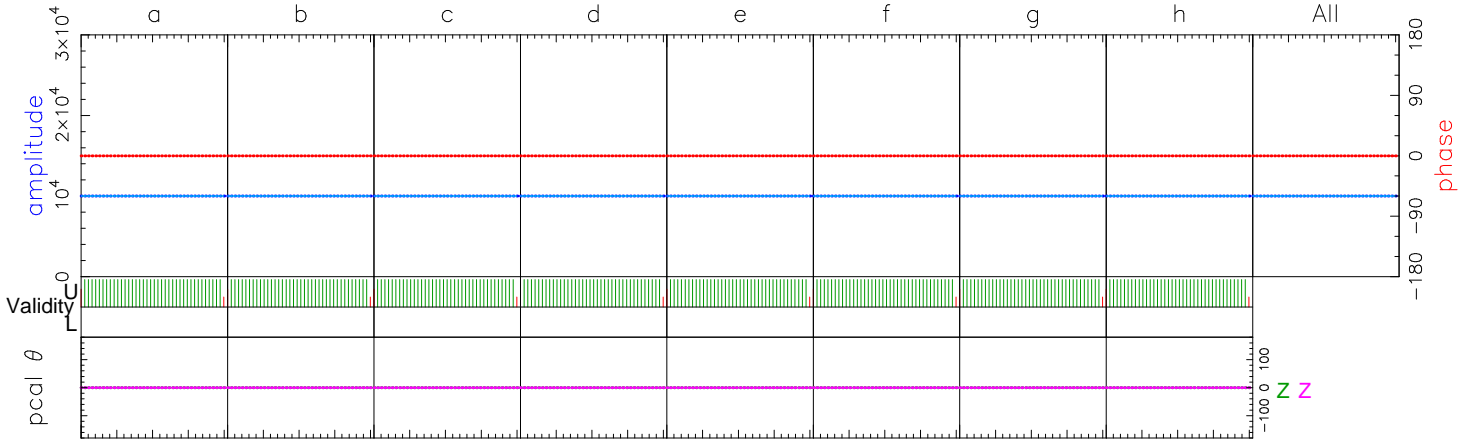


Fringe quality 9

SNR 122212.5
 Int time 19.973
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

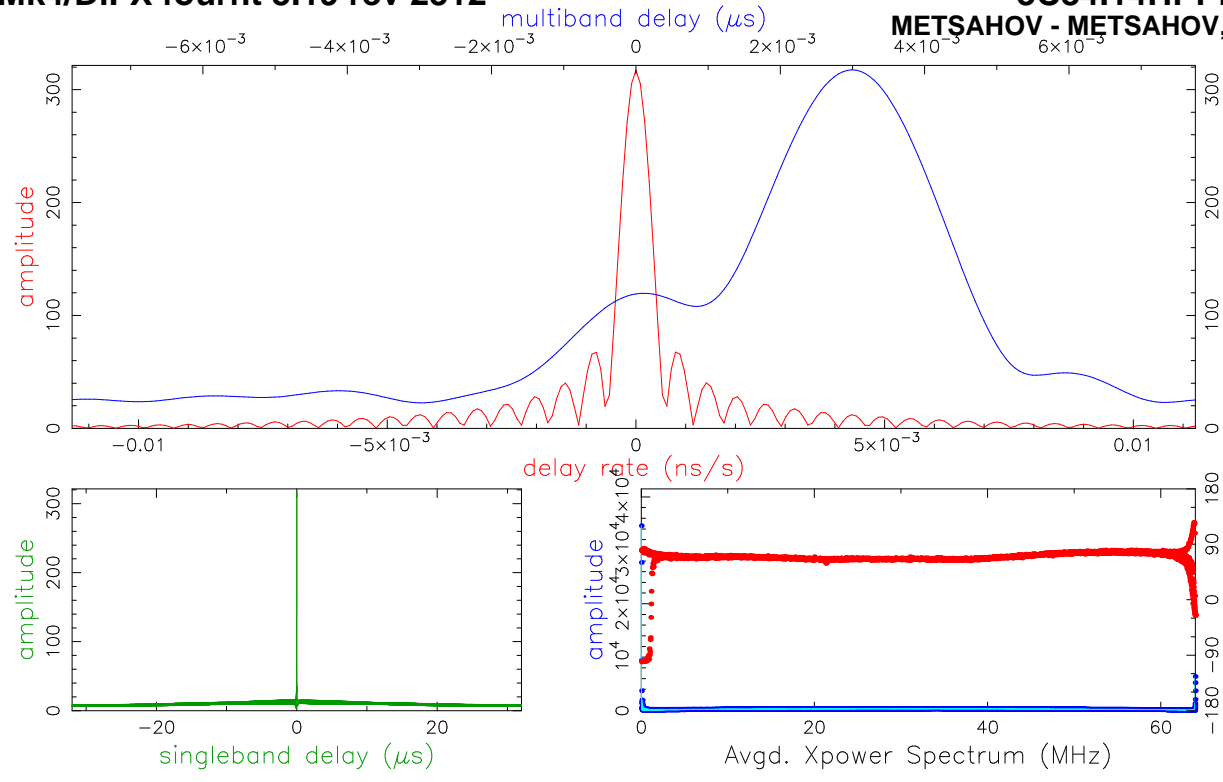
Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.00
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195021
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0	Ampl.	10000.0	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	8193.0	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase		
Z	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
									Tracks		
									Tracks		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	8.9E-09	
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	7.0E-08	
Phase delay (usec)	5.57709804175E-19	5.57709804175E-19	5.57709804175E-19	5.57709804175E-19	5.57709804175E-19	5.57709804175E-19	5.57709804175E-19	5.57709804175E-19	+/-	3.0E-11	
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	2.6E-12	
Total phase (deg)			0.0							+/-	0.0

RMS Theor. Amplitude 10000.000 +/- 0.082 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (128X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 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. 10000.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Z: az 194.1 el 71.0 pa 10.7 Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

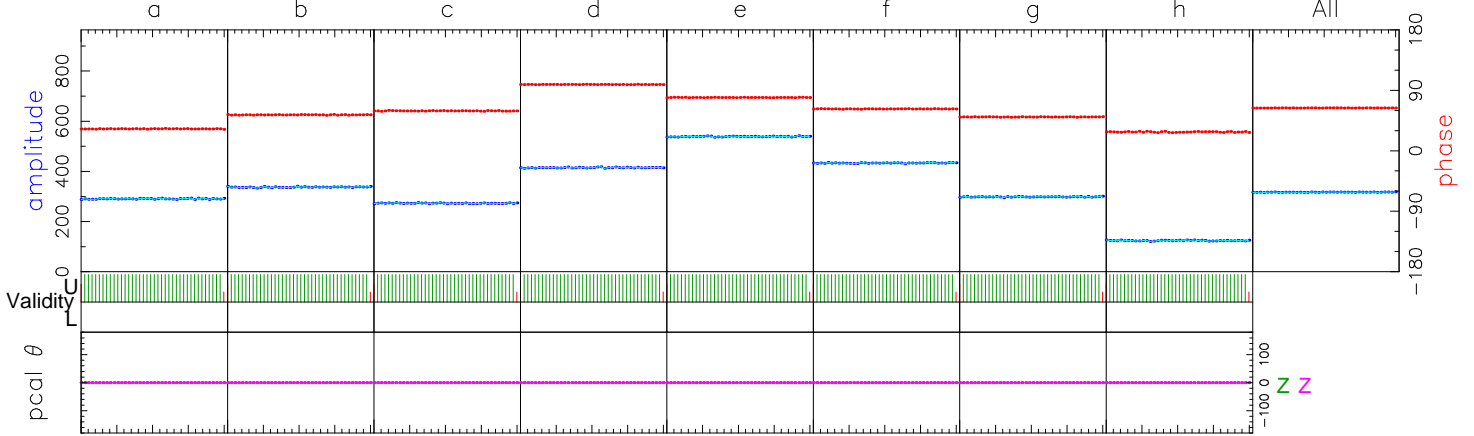


Fringe quality 6

SNR 3929.1
 Int time 19.973
 Amp 321.500
 Phase 63.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.002375
 MBD 0.002941
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f201a
 Exper # 16383
 Yr:day 2020:114
 Start 120000.00
 Stop 120020.48
 FRT 120300.00
 Corr/FF/build
 2020:114:192003
 2020:114:195027
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 40 segs, 1 APs / seg (0.51 sec / seg.), time ticks 1 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	40/0	40/0	40/0	40/0	40/0	40/0	40/0	40/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.94121875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.94122E-03	+/- 2.8E-07
Sband delay (usec)	2.37525000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		2.37525E-03	+/- 2.2E-06
Phase delay (usec)	2.05450971706E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.05451E-06	+/- 9.4E-10
Delay rate (us/s)	0.00000000000E+00		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		0.00000E+00	+/- 8.0E-11
Total phase (deg)	63.7		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		63.7	+/- 0.0

ph/seg (deg) 0.1 0.1 Theor. Amplitude 321.500 +/- 0.082 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.3 0.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 25.8 0.0 Inc. seg. avg. 317.228 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.7 0.1 Inc. frq. avg. 338.966 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 194.1 el 71.0 pa 10.7 Z: az 194.1 el 71.0 pa 10.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f201a/FRINGE/1234/No0001/ZZ..14HPPM Output file: /Exps/f201a/FRINGE/1234/No0001/ZZ.W.7.14HPPM