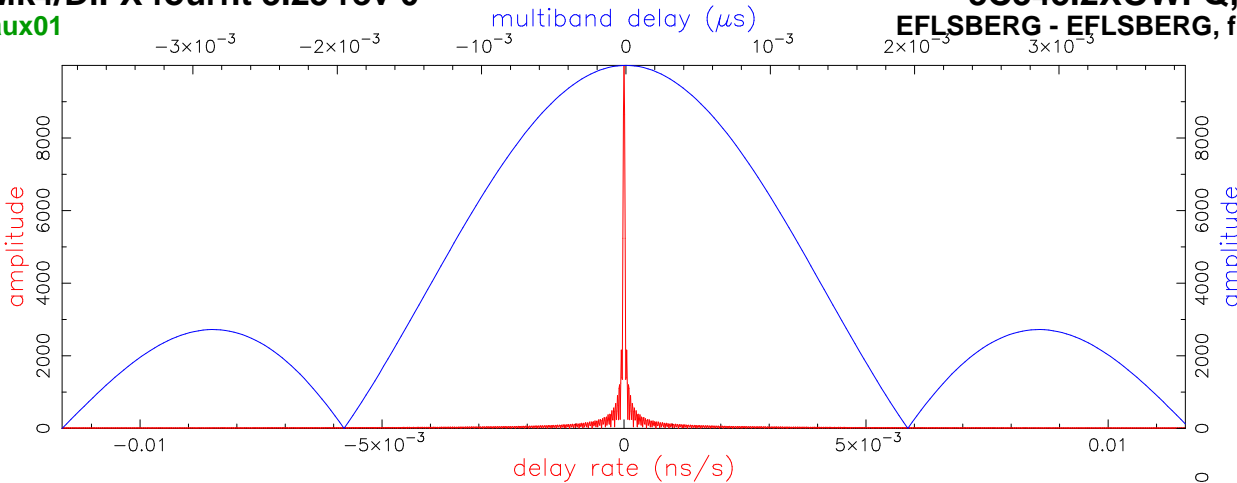


Mk4/DiFX fourfit 3.25 rev 0

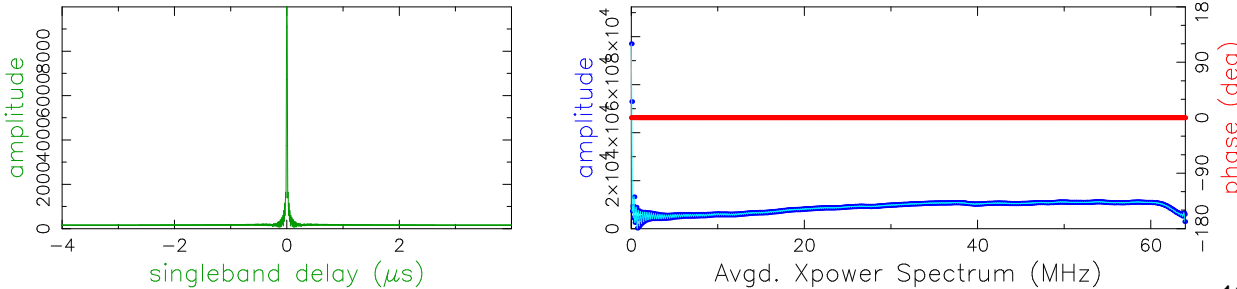
aux01

3C345.2XOWFQ, No0003, BB

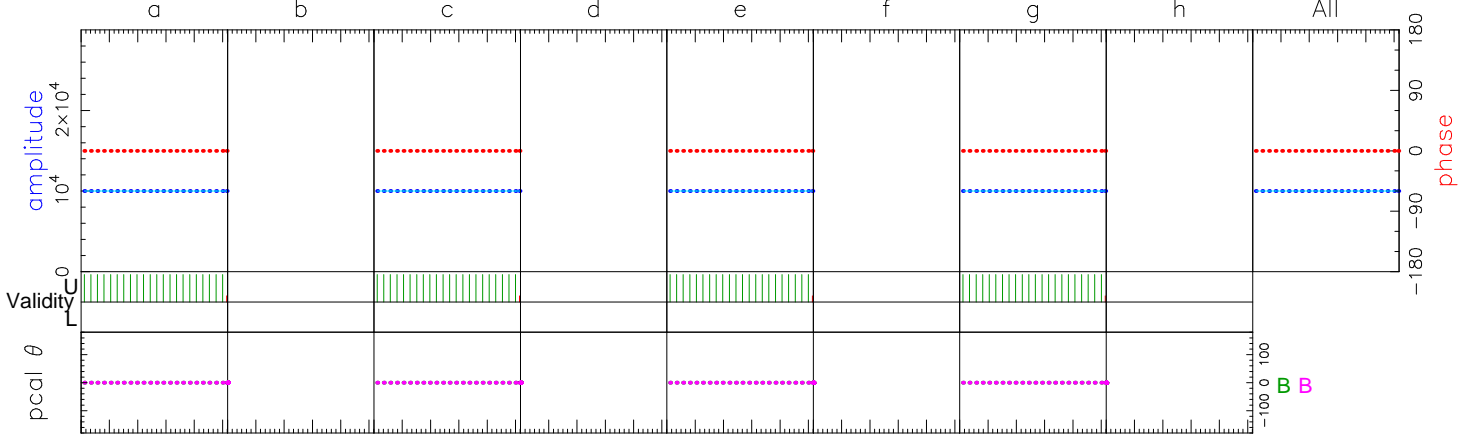
EFLSBERG - EFLSBERG, fgroup W, pol LL



Fringe quality 7
 Error code D
 SNR 334906.5
 Int time 149.986
 Amp 9999.999
 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) 0.500
 Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071708
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
U/L	600/0	0/0	600/0	0/0	600/0	0/0	600/0	0/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	2.8E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.6E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	1.1E-11
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	1.3E-13
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

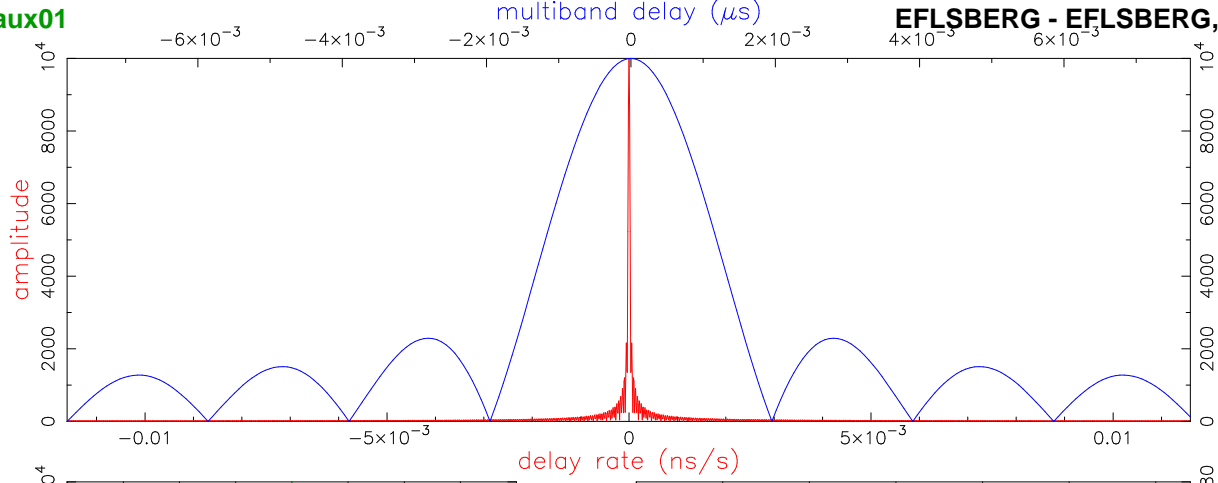
ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X16) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.004 0.004
 amp/frq (%) 70.7 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us dr window (ns/s) -0.012 0.012
 B: az 99.5 el 62.9 pa -54.7 B: az 99.5 el 62.9 pa -54.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 1024 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BB..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BB.W.1.2XOWFQ simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

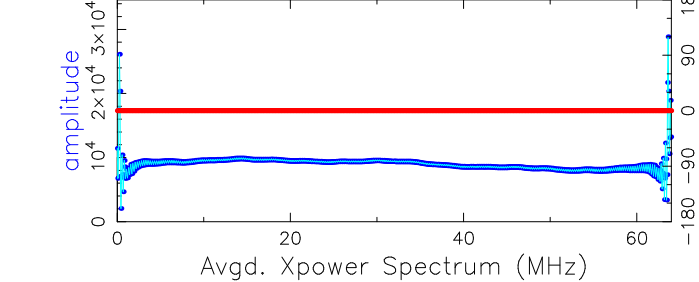
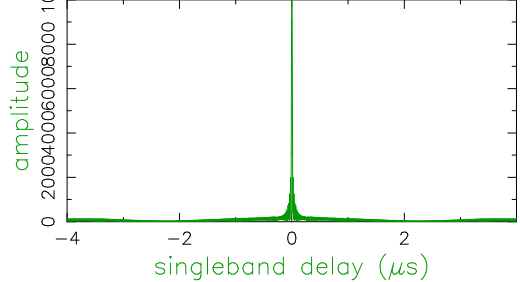
3C345.2XOWFQ, No0003, BB

EFLSBERG - EFLSBERG, fgroup W, pol RR



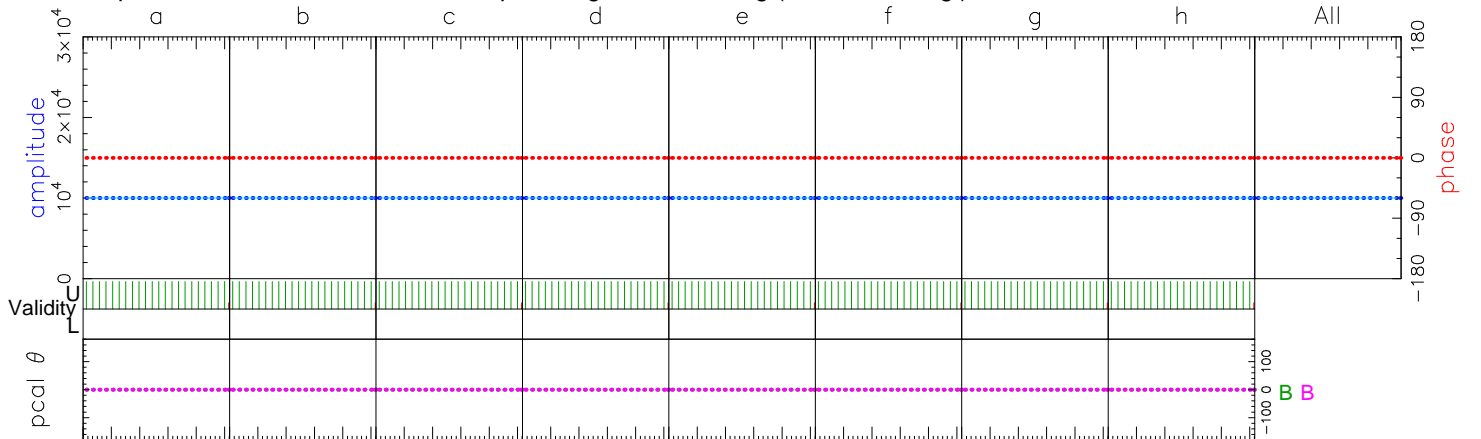
Fringe quality 9

SNR 473629.3
 Int time 299.973
 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) 0.500



Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071719
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	2.3E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	1.8E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	7.8E-12
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	4.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

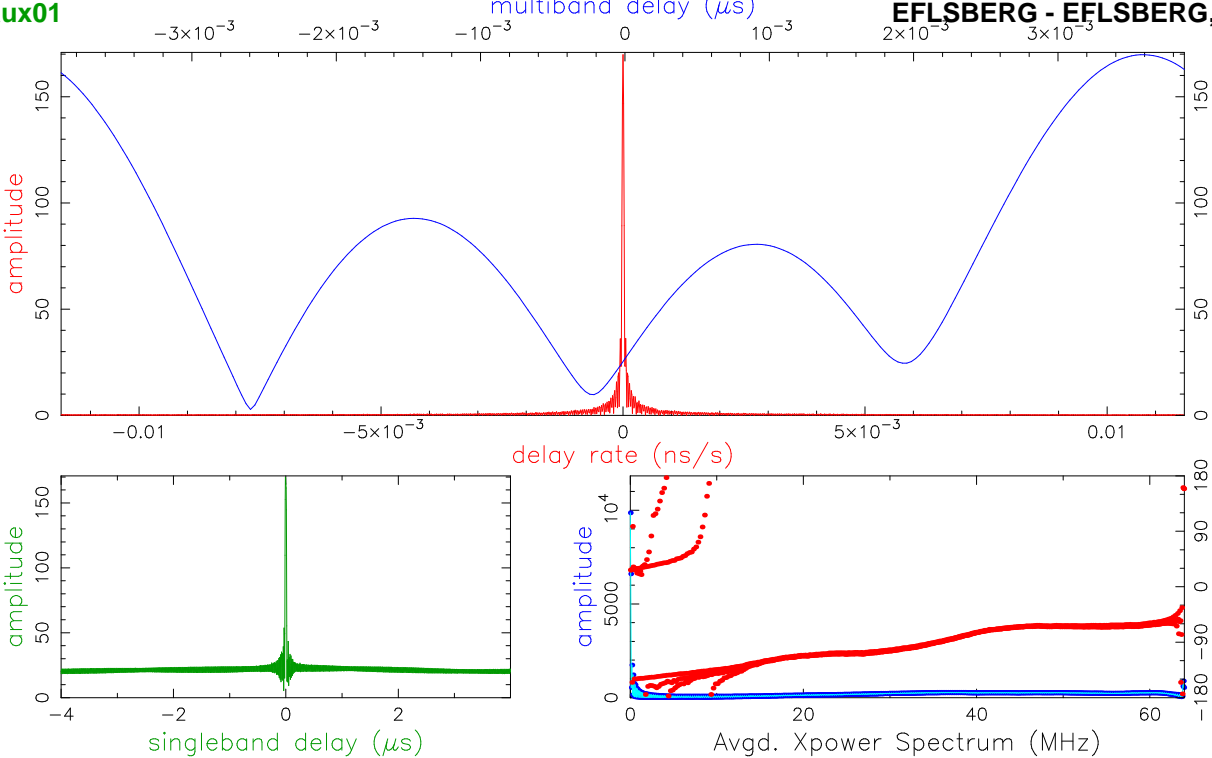
ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.012 0.012
 B: az 99.5 el 62.9 pa -54.7 B: az 99.5 el 62.9 pa -54.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BB..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BB.W.13.2XOWFQ simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

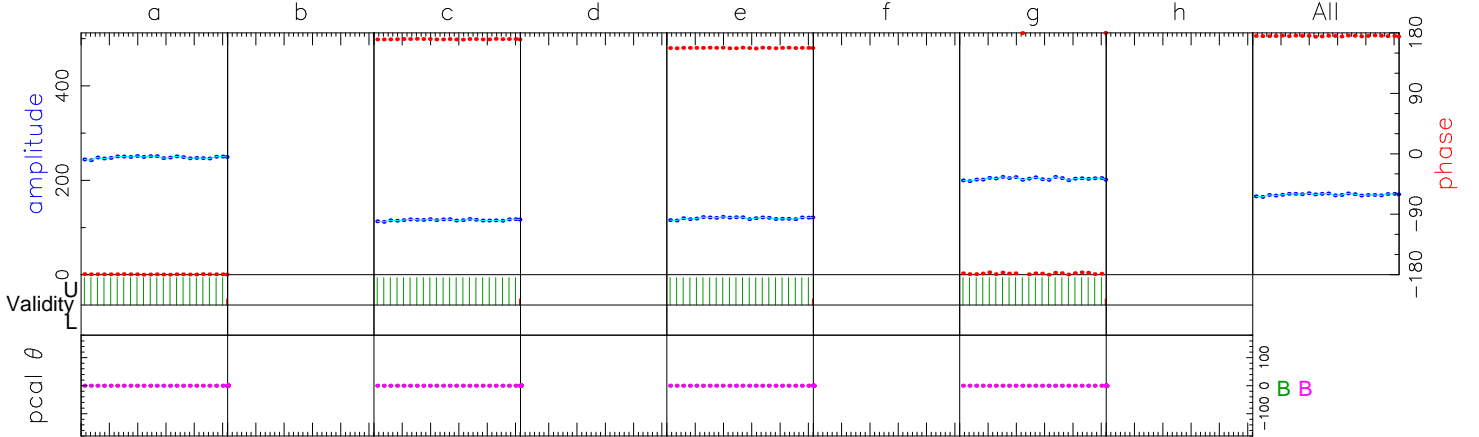
3C345.2XOWFQ, No0003, BB

EFLSBERG - EFLSBERG, fgroup W, pol LR



Fringe quality 5
 Error code D
 SNR 5722.2
 Int time 149.986
 Amp 170.861
 Phase 175.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.006329
 MBD 0.003607
 Fringe rate (Hz)
 0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071727
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 sec / seg.), time ticks 10 sec



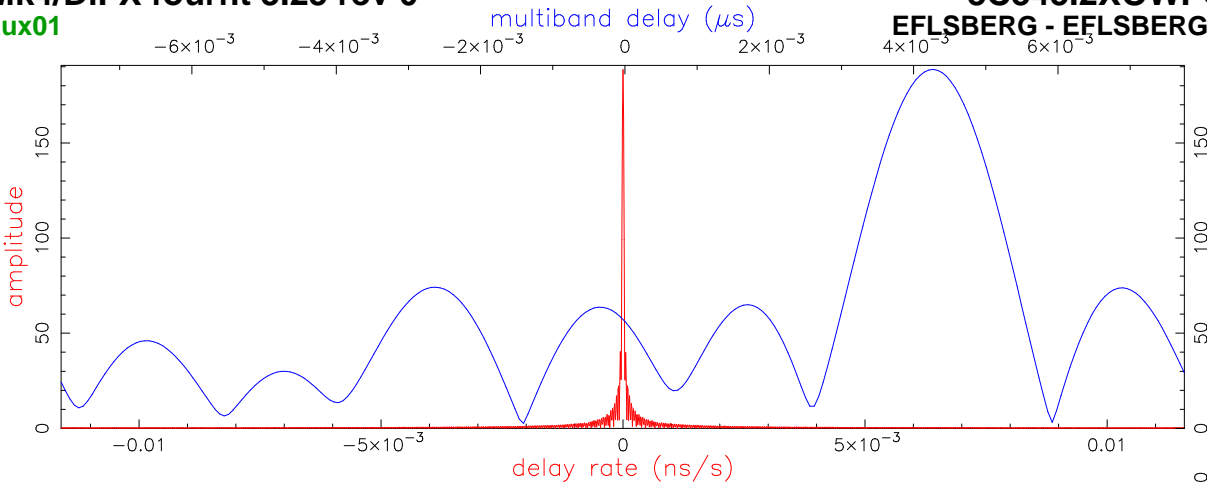
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-179.4	0.0	170.5	0.0	157.5	0.0	-178.2	0.0	Phase	175.3
	248.5	0.0	115.9	0.0	119.7	0.0	203.4	0.0	Ampl.	171.9
	1025.0	0.0	1024.8	0.0	1024.1	0.0	1022.0	0.0	Sbd box	1023.4
U/L	600/0	0/0	600/0	0/0	600/0	0/0	600/0	0/0	APs 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	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	-4.20590625000E-03		Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	3.60659E-03	+/-	1.7E-07	
Sband delay (usec)	-6.32925000000E-03		Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	-6.32925E-03	+/-	1.5E-06	
Phase delay (usec)	5.65143067497E-06		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	5.65143E-06	+/-	6.5E-10	
Delay rate (us/s)	1.23345716276E-11		Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	1.23346E-11	+/-	7.5E-12	
Total phase (deg)		175.3	Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	175.3	+/-	0.0	
ph/seg (deg)	0.5	0.0	Amplitude	170.861 +/- 0.030		Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	1.3	0.1	Search (2048X16)	167.226		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000	
ph/frq (deg)	143.3	0.0	Interp.	0.000		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.004	0.004
amp/frq (%)	74.5	0.0	Inc. seg. avg.	169.756		Data rate(MSamp/s): 128 MBpts 16 Amb 0.008 us	dr window (ns/s)	-0.012	0.012	
			Inc. frq. avg.	171.882		Data rate(Mb/s): 1024	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00	0.00
B: az 99.5 el 62.9 pa -54.7		B: az 99.5 el 62.9 pa -54.7		u,v (fr/asec) 0.000	0.000			simultaneous interpolator		
Control file: cf_1234_gmva		Input file: /Exps/f232a/FRINGE/1234/No0003/BB..2XOWFQ						Output file: /Exps/f232a/FRINGE/1234/No0003/BB.W.22.2XOWFQ		

Mk4/DiFX fourfit 3.25 rev 0

aux01

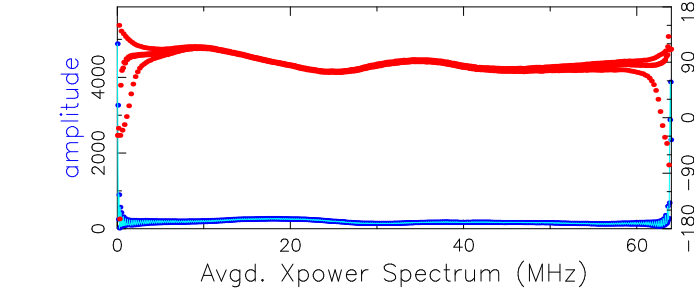
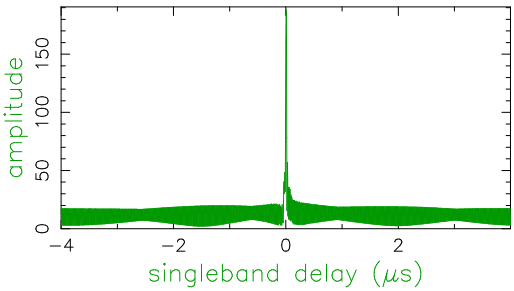
3C345.2XOWFQ, No0003, BB

EFLSBERG - EFLSBERG, fgroup W, pol RL



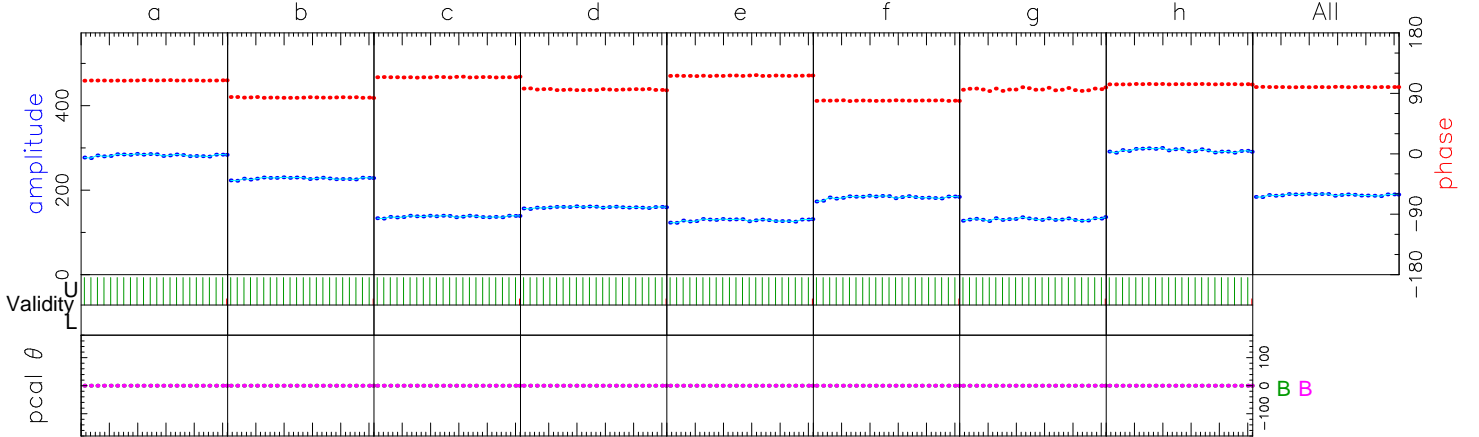
Fringe quality 7

SNR 9034.0
 Int time 299.973
 Amp 190.741
 Phase 99.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.005265
 MBD 0.004285
 Fringe rate (Hz)
 -0.000003
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071739
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 sec / seg.), time ticks 10 sec

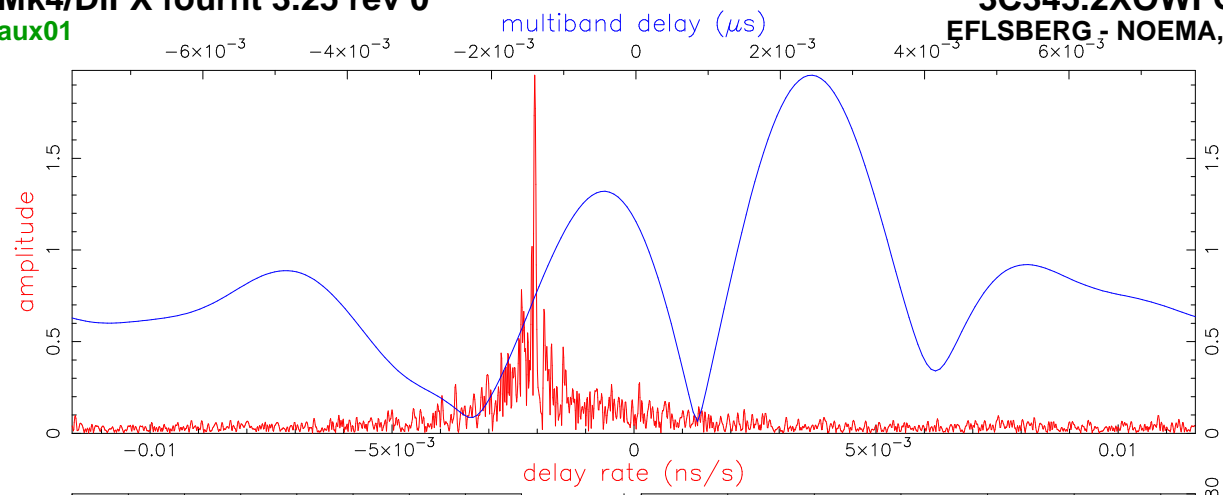


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

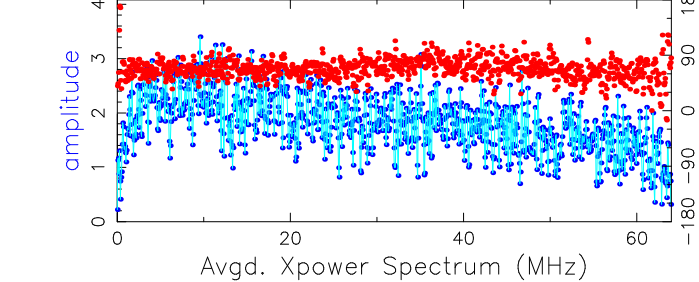
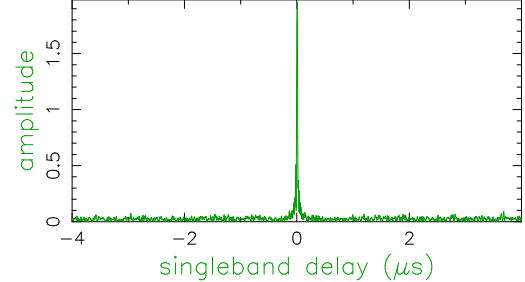
Group delay (usec) (SBD)	4.28531250000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	4.28531E-03	+/-	1.2E-07
Sband delay (usec)	5.26550000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.26550E-03	+/-	9.5E-07
Phase delay (usec)	3.20124078004E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.20124E-06	+/-	4.1E-10
Delay rate (us/s)	-3.55525888089E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.55526E-11	+/-	2.4E-12
Total phase (deg)		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	99.3	+/-	0.0

ph/seg (deg)	0.2	0.0	Search (2048X32)	186.898	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	1.6	0.1	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)	14.6	0.0	Inc. seg. avg.	188.543	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012	0.012
amp/frq (%)	33.0	0.0	Inc. frq. avg.	192.914	Data rate(Mb/s): 2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00	0.00

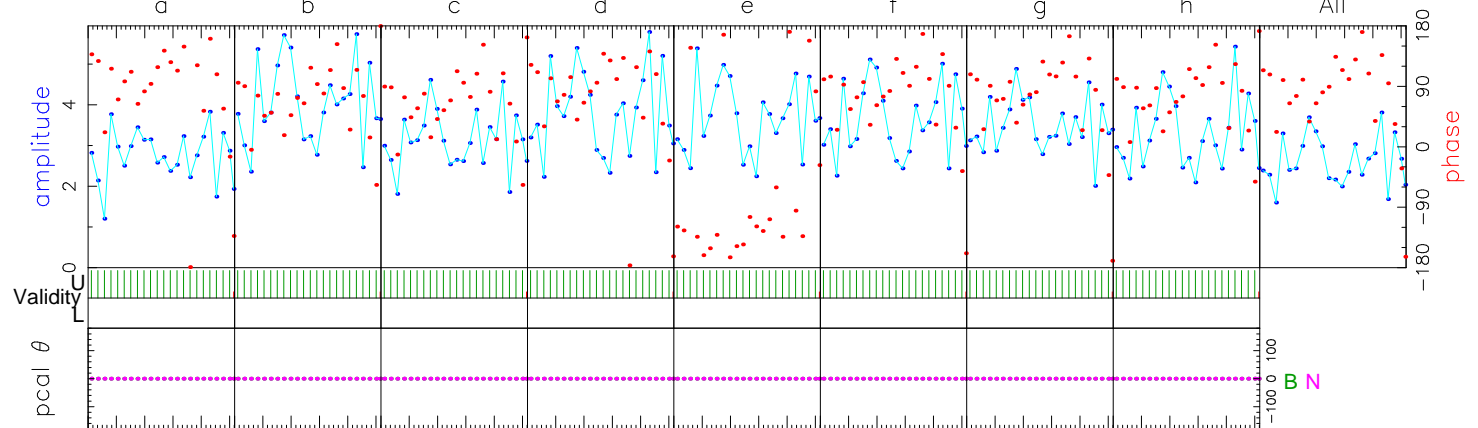
B: az 99.5 el 62.9 pa -54.7 B: az 99.5 el 62.9 pa -54.7 u, v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BB..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BB.W.32.2XOWFQ



Fringe quality 2
SNR 92.5
Int time 299.973
Amp 1.979
Phase 88.2
PFD 0.0e+00
Delays (us)
SBD 0.004162
MBD 0.002439
Fringe rate (Hz)
-0.176962
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. f232a
Exper # 1234
Yr:day 2023:285
Start 123000.00
Stop 123500.00
FRT 123230.00
Corr/FF/build
2023:285:210221
2023:286:071725
2023:269:144209
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0		
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	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		Chan ids
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
Group delay (usec) (SBD)	1.96649533363E+01					1.96625147770E+01			2.43856E-03	+/- 1.2E-05
Sband delay (usec)	1.96666765270E+01					-1.8053818E+01			4.16175E-03	+/- 9.3E-05
Phase delay (usec)	1.96625176225E+01					2.0100000E-02			2.84556E-06	+/- 4.0E-08
Delay rate (us/s)	-6.39176620742E-02					-6.39156077252E-02			-2.05435E-06	+/- 2.3E-10
Total phase (deg)			96.5			4.79245300741E-06			88.2	+/- 1.2
ph/seg (deg)	45.7	3.0								
amp/seg (%)	46.7	5.2								
ph/frq (deg)	54.6	1.8								
amp/frq (%)	34.3	3.1								
B: az 99.5 el 62.9 pa -54.7										
N: az 87.2 el 62.6 pa -67.7										
u,v (fr/asec) 483.781 779.717										
Control file: cf_1234_gmva										
Input file: /Exps/f232a/FRINGE/1234/No0003/BN..2XOWFQ										
Output file: /Exps/f232a/FRINGE/1234/No0003/BN.W.20.2XOWFQ										

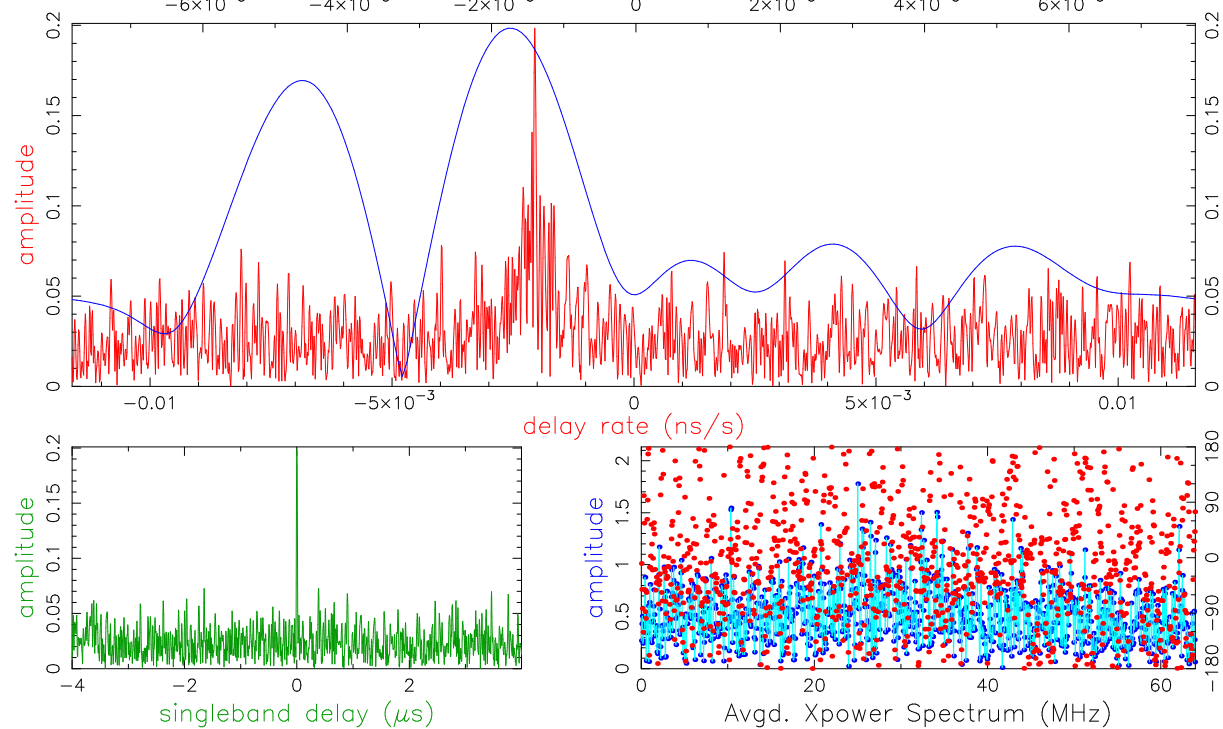
RMS Theor. Amplitude 1.979 +/- 0.021
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us
Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite
sb window (us) -4.000 4.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.012 0.012
ion window (TEC) 0.00 0.00
simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

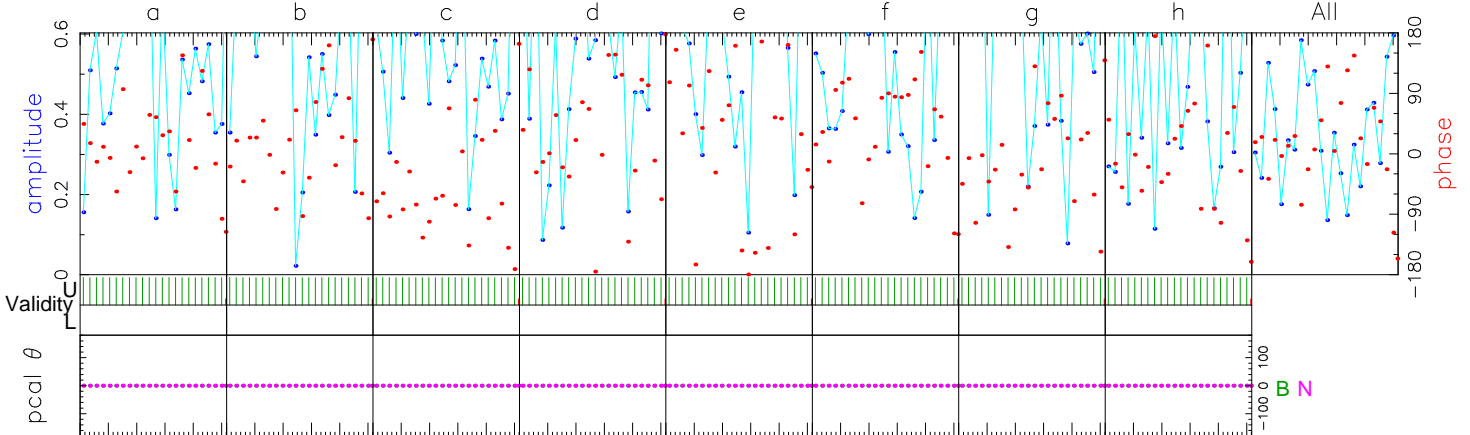
3C345.2XOWFQ, No0003, BN

EFLSBERG - NOEMA, fgroup W, pol LR



Fringe quality 9
 SNR 9.4
 Int time 299.973
 Amp 0.201
 Phase 2.9
 PFD 8.9e-12
 Delays (us)
 SBD 0.000117
 MBD -0.001740
 Fringe rate (Hz)
 -0.177416
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071738
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	1.96607748886E+01	Apriori delay (usec)	1.96625147770E+01	Resid mbdelay (usec)	-1.73989E-03	+/-	1.2E-04
Sband delay (usec)	1.96626315270E+01	Apriori clock (usec)	-1.8053818E+01	Resid sbdelay (usec)	1.16750E-04	+/-	9.2E-04
Phase delay (usec)	1.96625148690E+01	Apriori clockrate (us/s)	2.0100000E-06	Resid phdelay (usec)	9.20677E-08	+/-	3.9E-07
Delay rate (us/s)	-6.39176673519E-02	Apriori rate (us/s)	-6.39156077252E-02	Resid rate (us/s)	-2.05963E-06	+/-	2.3E-09
Total phase (deg)		Apriori accel (us/s/s)	4.79245300741E-06	Resid phase (deg)	2.9	+/-	12.2

ph/seg (deg)	66.0	Theor.	29.2	Amplitude	0.201 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	107.0		51.0	Search (2048X32)	0.195	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	53.3		17.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.6		30.1	Inc. seg. avg.	0.323	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012 0.012	
				Inc. frq. avg.	0.253	Data rate(Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00

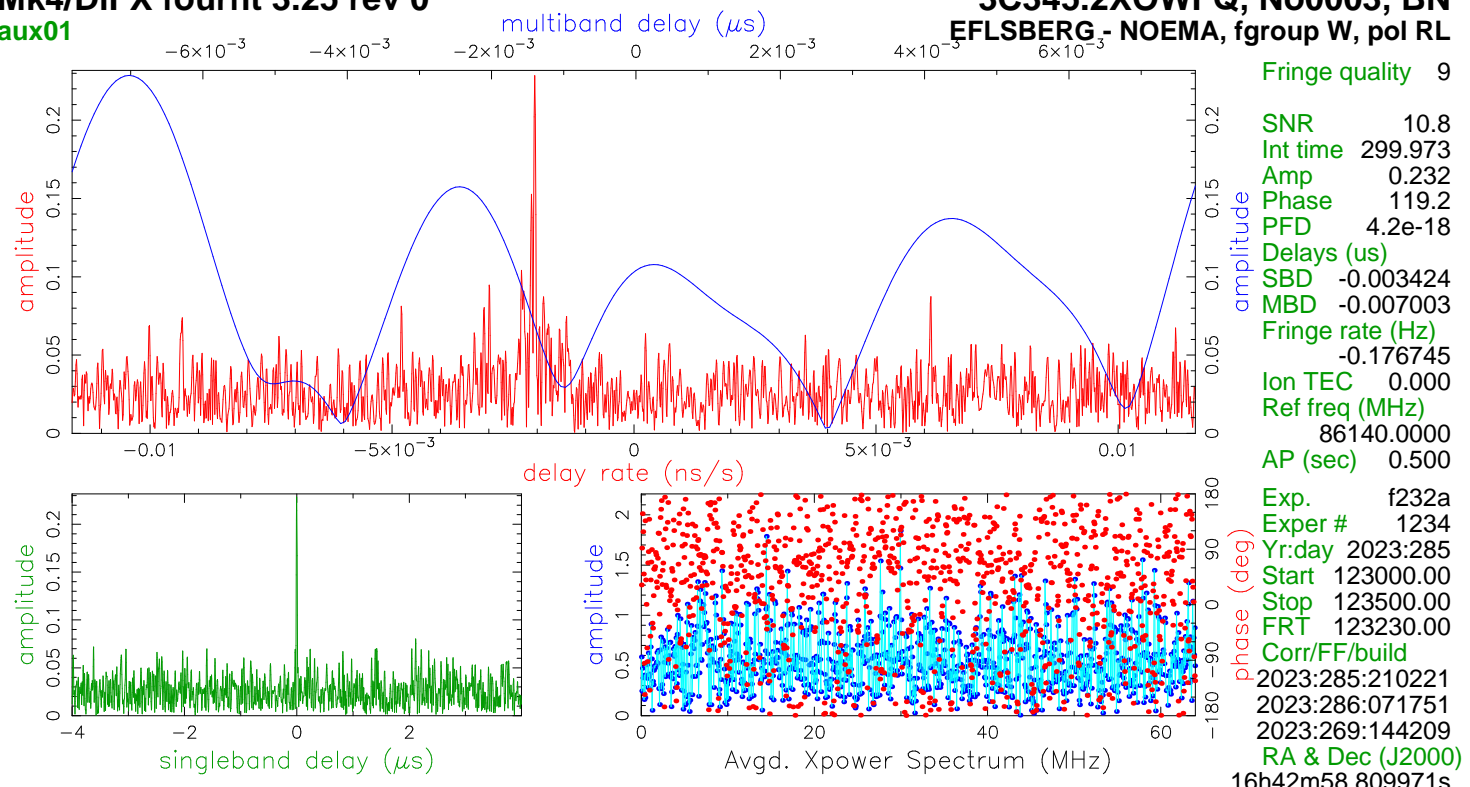
B: az 99.5 el 62.9 pa -54.7 N: az 87.2 el 62.6 pa -67.7 u,v (fr/asec) 483.781 779.717 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BN..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BN.W.30.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

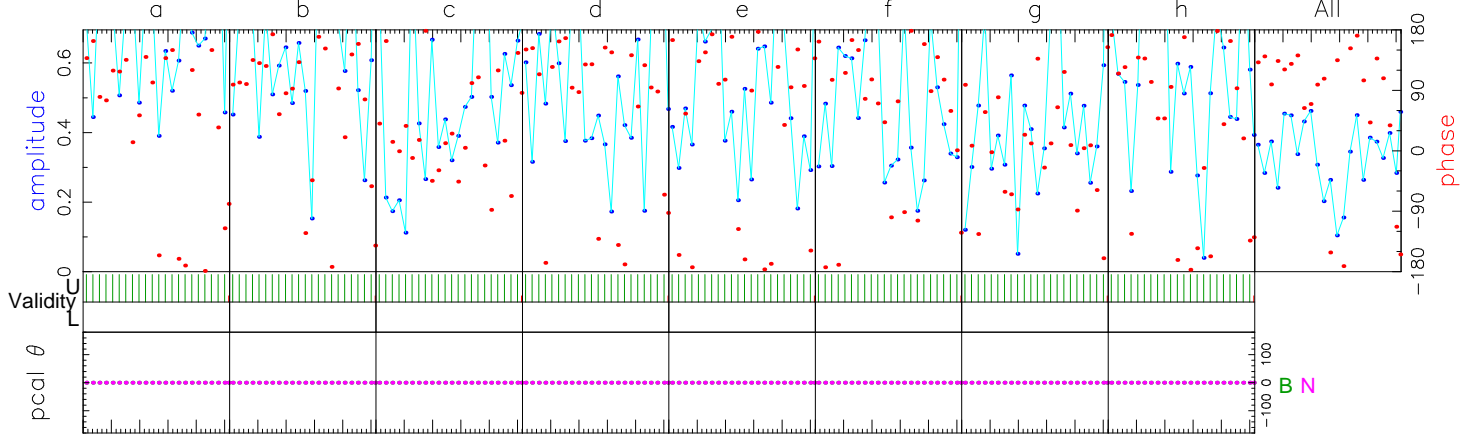
aux01

3C345.2XOWFQ, No0003, BN

EFLSBERG - NOEMA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
	123.0	128.6	11.0	132.8	143.3	126.1	15.9	130.2	Phase	119.2
	0.4	0.4	0.2	0.3	0.4	0.2	0.2	0.3	Ampl.	0.3
	1023.0	1025.5	1024.4	1025.2	1025.6	1026.3	1025.6	1024.7	Sbd box	1024.1
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.96555119300E+01	Apriori delay (usec)	1.96625147770E+01	Resid mbdelay (usec)	-7.00285E-03	+/-	1.0E-04
Sband delay (usec)	1.96590910270E+01	Apriori clock (usec)	-1.8053818E+01	Resid sbdelay (usec)	-3.42375E-03	+/-	7.9E-04
Phase delay (usec)	1.96625186195E+01	Apriori clockrate (us/s)	2.0100000E-06	Resid phdelay (usec)	3.84254E-06	+/-	3.4E-07
Delay rate (us/s)	-6.39176595565E-02	Apriori rate (us/s)	-6.39156077252E-02	Resid rate (us/s)	-2.05183E-06	+/-	2.0E-09
Total phase (deg)	127.4	Apriori accel (us/s/s)	4.79245300741E-06	Resid phase (deg)	119.2	+/-	10.6

ph/seg (deg)	50.2	Theor.	25.4	Amplitude	0.232 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	61.6	Search (2048X32)	0.226	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-4.000 4.000
ph/frq (deg)	62.4	Inc. seg. avg.	0.306	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	45.4	Inc. frq. avg.	0.294	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.012 0.012
				Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

B: az 99.5 el 62.9 pa -54.7 N: az 87.2 el 62.6 pa -67.7 u,v (fr/asec) 483.781 779.717 simultaneous interpolator

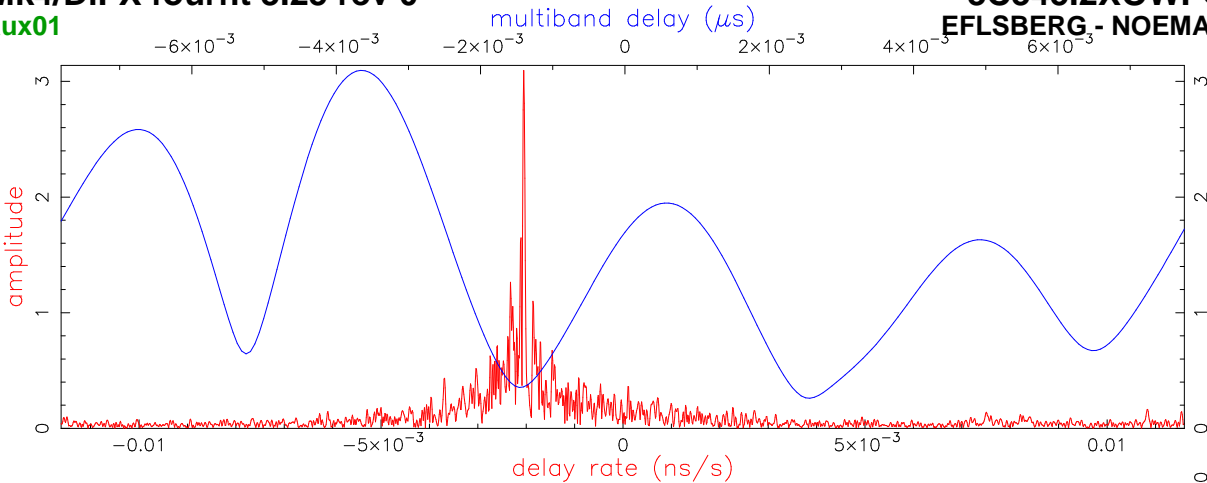
Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BN..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BN.W.38.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

aux01

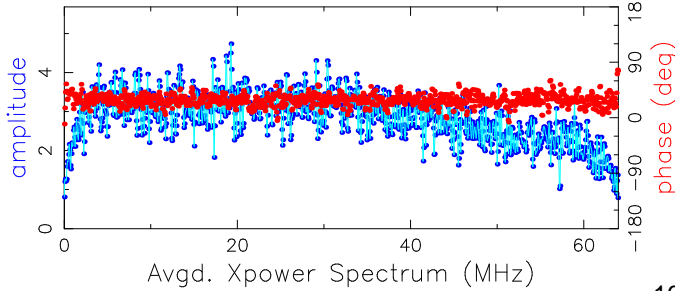
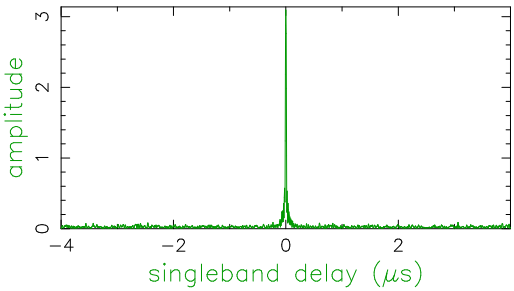
3C345.2XOWFQ, No0003, BN

EFLSBERG₃- NOEMA, fgroup W, pol LL



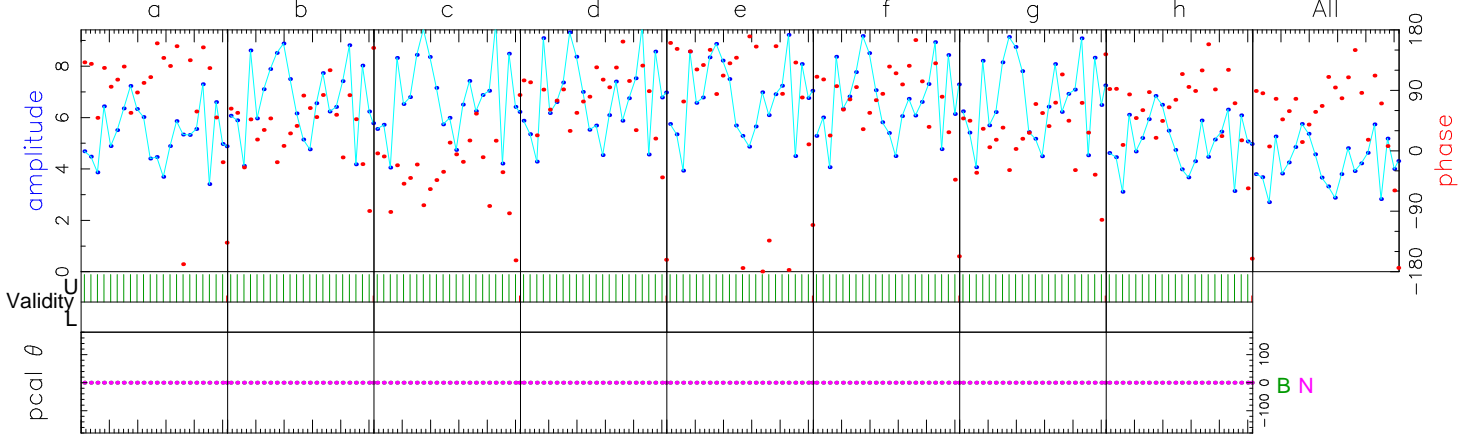
Fringe quality 1

SNR 146.8
 Int time 299.973
 Amp 3.139
 Phase 66.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.000434
 MBD -0.003665
 Fringe rate (Hz)
 -0.176929
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071713
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
	112.0	37.2	-30.6	80.6	137.3	83.5	25.3	71.7	Phase	66.0
	3.9	5.0	5.0	5.0	4.9	5.0	4.9	3.7	Ampl.	4.7
	1023.4	1024.4	1025.5	1025.4	1025.6	1025.4	1025.0	1023.9	Sbd box	1024.9
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.96588495863E+01	Apriori delay (usec)	1.96625147770E+01	Resid mbdelay (usec)	-3.66519E-03	+/-	7.4E-06
Sband delay (usec)	1.96620807770E+01	Apriori clock (usec)	-1.8053818E+01	Resid sbdelay (usec)	-4.34000E-04	+/-	5.9E-05
Phase delay (usec)	1.96625169055E+01	Apriori clockrate (us/s)	2.0100000E-02	Resid phdelay (usec)	2.12849E-06	+/-	2.5E-08
Delay rate (us/s)	-6.39176617005E-02	Apriori rate (us/s)	-6.39156077252E-02	Resid rate (us/s)	-2.05398E-06	+/-	1.5E-10
Total phase (deg)	74.2	Apriori accel (us/s/s)	4.79245300741E-06	Resid phase (deg)	66.0	+/-	0.8

ph/seg (deg)	46.4	RMS	Theor.	Amplitude	3.139 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	46.2	46.4	1.9	Search (2048X32)	3.062	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	57.1	46.2	3.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	51.4	57.1	1.1	Inc. seg. avg.	4.284	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012 0.012	
		51.4	1.9	Inc. frq. avg.	4.671	Data rate(Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 99.5 el 62.9 pa -54.7 N: az 87.2 el 62.6 pa -67.7 u,v (fr/asec) 483.781 779.717 simultaneous interpolator

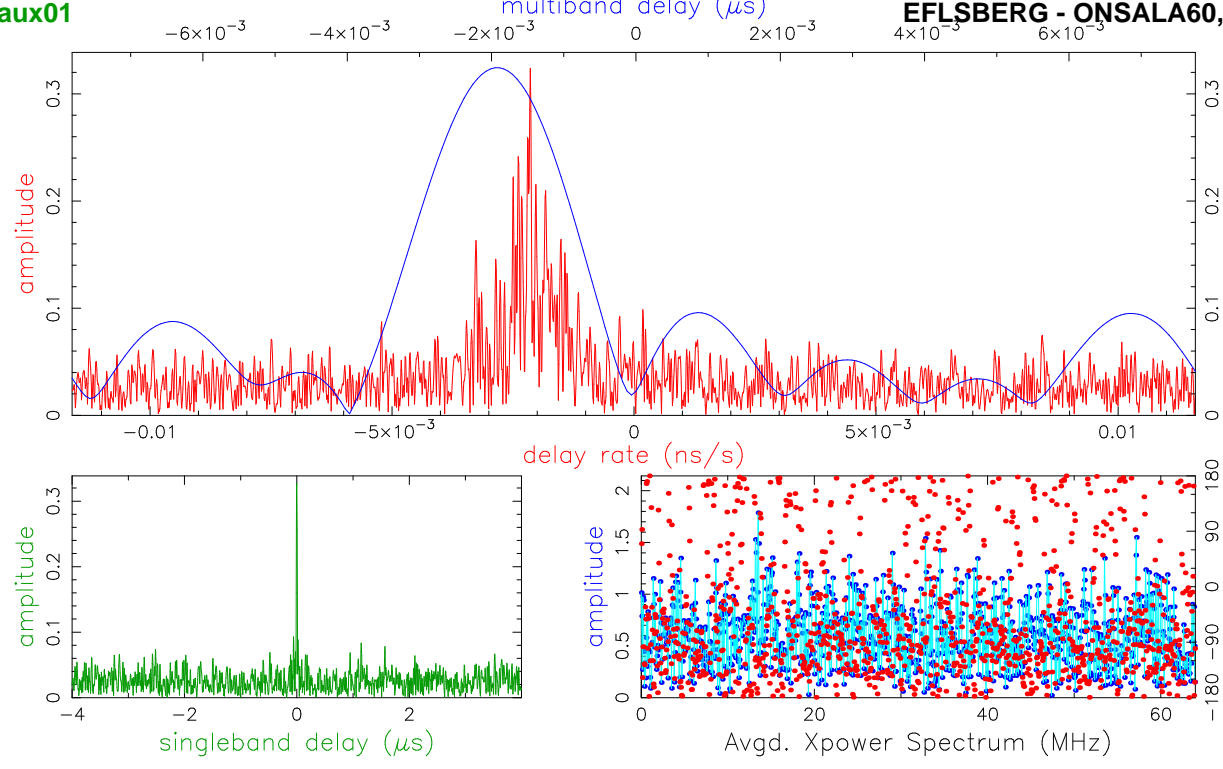
Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BN..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BN.W.7.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.2XOWFQ, No0003, BX

EFLSBERG - ONSALA60, fgroup W, pol RR

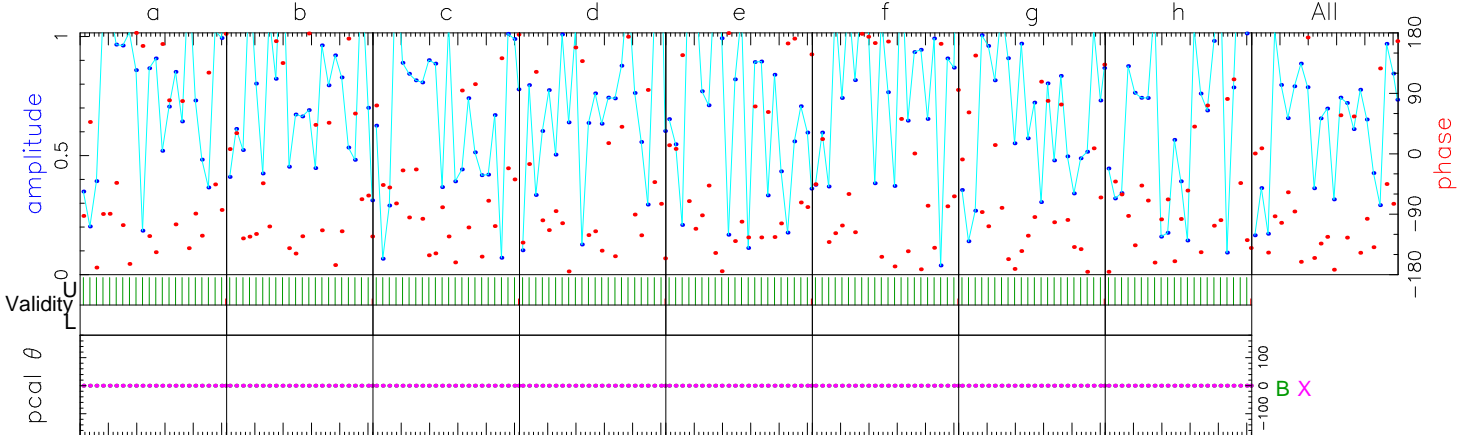


Fringe quality 9

SNR 15.8
 Int time 299.930
 Amp 0.339
 Phase -111.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.002122
 MBD -0.001986
 Fringe rate (Hz)
 -0.184610
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071721
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
	-119.2	-130.2	-86.7	-111.6	-108.9	-126.6	-106.2	-102.0	Phase	-111.8
	0.4	0.3	0.3	0.3	0.4	0.3	0.2	0.3	Ampl.	0.3
	1024.5	1024.7	1023.6	1023.3	1022.7	1025.0	1022.9	1022.4	Sbd box	1024.5
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
X	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
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) -2.14105060057E+02 Apriori delay (usec) -2.14103073941E+02 Resid mbdelay (usec) -1.98612E-03 +/- 6.9E-05
 Sband delay (usec) -2.14105195691E+02 Apriori clock (usec) 0.320 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 Phase delay (usec) -2.14103077546E+02 Apriori clockrate (us/s) 1.3800001E-06 Resid sbdelay (usec) -2.12175E-03 +/- 5.4E-04
 Delay rate (us/s) 1.14220857460E-01 Apriori rate (us/s) 1.14223000603E-01 Resid phdelay (usec) -3.60546E-06 +/- 2.3E-07
 Total phase (deg) -35.9 Apriori accel (us/s/s) -4.67063841367E-06 Resid rate (us/s) -2.14314E-06 +/- 1.3E-09
 Resid phase (deg) -111.8 +/- 7.2

RMS Theor. Amplitude 0.339 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 75.7 17.4 Search (2048X32) 0.320 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 114.0 30.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 15.1 10.2 Inc. seg. avg. 0.606 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.012 0.012
 amp/frq (%) 15.5 17.9 Inc. frq. avg. 0.332 Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00

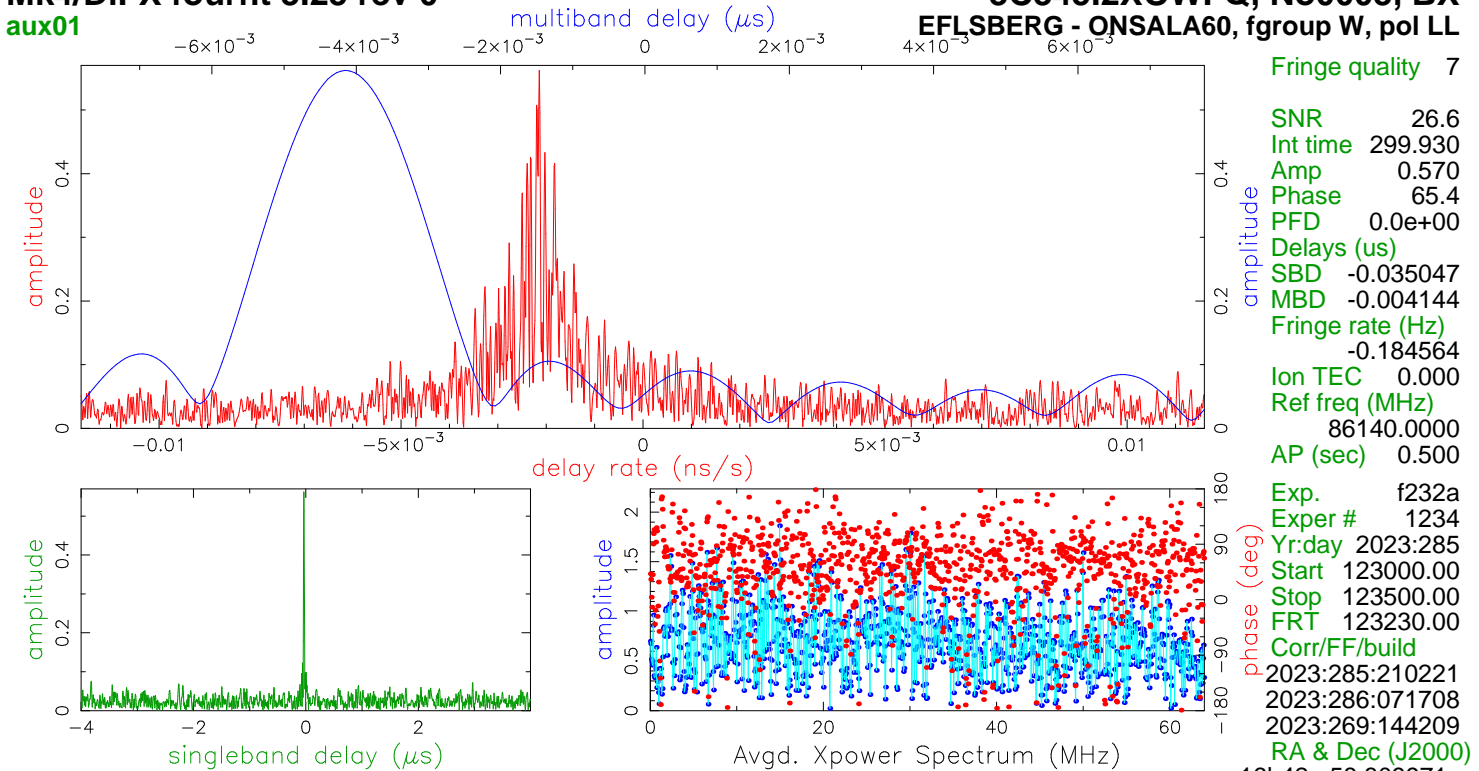
B: az 99.5 el 62.9 pa -54.7 X: az 118.4 el 63.5 pa -37.8 u,v (fr/asec) -858.442 -778.068 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BX..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BX.W.14.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

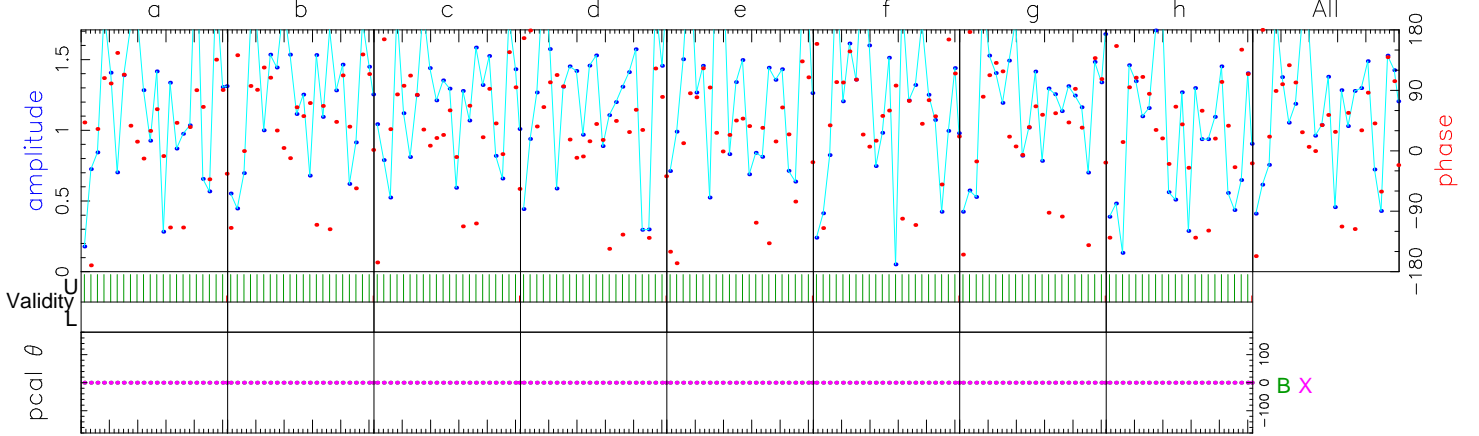
aux01

3C345.2XOWFQ, No0003, BX

EFLSBERG - ONSALA60, fgroup W, pol LL



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
70.6	71.1	63.5	55.9	57.1	69.9	69.1	69.0	69.0	Phase	65.4
0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	Ampl.	0.6
1015.6	1016.1	1016.2	1016.2	1016.3	1016.0	1016.1	1015.4	1015.4	Sbd box	1016.0
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-2.14138467557E+02	Apriori delay (usec)	-2.14103073941E+02	Resid mbdelay (usec)	-4.14362E-03	+/-	4.1E-05
Sband delay (usec)	-2.14138120691E+02	Apriori clock (usec)	-1.3353635E+02	Resid sbdelay (usec)	-3.50467E-02	+/-	3.2E-04
Phase delay (usec)	-2.14103071832E+02	Apriori clockrate (us/s)	1.3800001E-06	Resid phdelay (usec)	2.10897E-06	+/-	1.4E-07
Delay rate (us/s)	1.14220858002E-01	Apriori rate (us/s)	1.14223000603E-01	Resid rate (us/s)	-2.14260E-06	+/-	8.0E-10
Total phase (deg)	-218.7	Apriori accel (us/s/s)	-4.67063841367E-06	Resid phase (deg)	65.4	+/-	4.3

ph/seg (deg)	80.1	Theor.	10.3	Amplitude	0.570 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	127.9		18.0	Search (2048X32)	0.558	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	6.7		6.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	9.2		10.6	Inc. seg. avg.	1.140	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012 0.012	
				Inc. frq. avg.	0.570	Data rate(Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 99.5 el 62.9 pa -54.7 X: az 118.4 el 63.5 pa -37.8 u,v (fr/asec) -858.442 -778.068 simultaneous interpolator

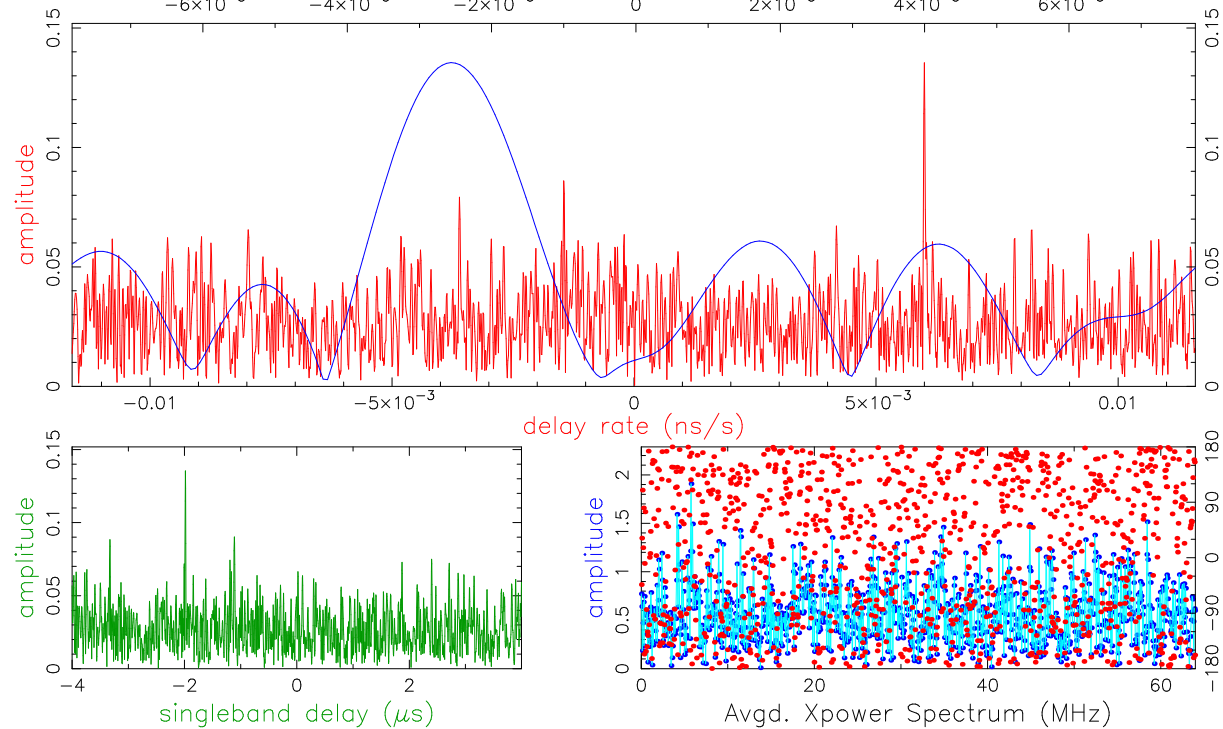
Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BX..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BX.W.2.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.2XOWFQ, No0003, BX

EFLSBERG - ONSALA60, fgroup W, pol LR

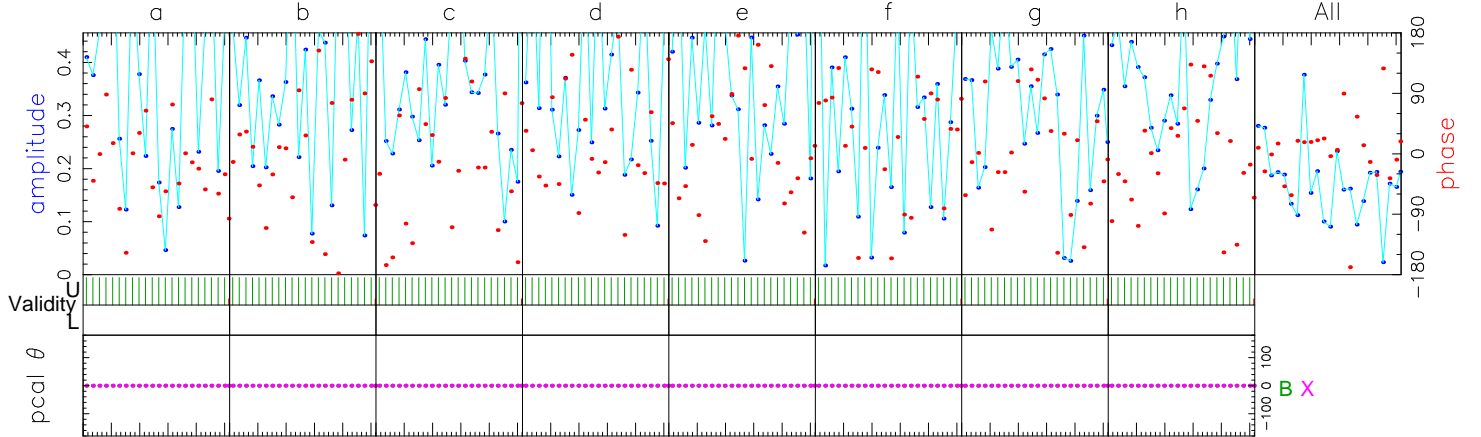


Fringe quality 0

SNR 6.4
 Int time 299.930
 Amp 0.152
 Phase 0.6
 PFD 1.3e-01
 Delays (us)
 SBD -1.983868
 MBD -0.002540
 Fringe rate (Hz) 0.517232
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build 2023:285:210221
 2023:286:071733
 2023:269:144209
 RA & Dec (J2000) 16h42m58.809971s +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	600/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-2.16089989001E+02	Apriori delay (usec)	-2.14103073941E+02	Resid mbdelay (usec)	-2.54006E-03	+/-	1.7E-04
Sband delay (usec)	-2.16086941941E+02	Apriori clock (usec)	-1.3353635E+02	Resid sbdelay (usec)	-1.98387E+00	+/-	1.3E-03
Phase delay (usec)	-2.14103073922E+02	Apriori clockrate (us/s)	1.3800001E-06	Resid phdelay (usec)	1.90868E-08	+/-	5.7E-07
Delay rate (us/s)	1.14229005151E-01	Apriori rate (us/s)	1.14223000603E-01	Resid rate (us/s)	6.00455E-06	+/-	3.3E-09
Total phase (deg)	-283.5	Apriori accel (us/s/s)	-4.67063841367E-06	Resid phase (deg)	0.6	+/-	17.8

ph/seg (deg)	55.1	RMS	42.7	Theor.	42.7	Amplitude	0.152 +/- 0.024	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	60.5	Search (2048X32)	0.132	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000	
ph/frq (deg)	22.6	Inc. seg. avg.	0.152	Inc. frq. avg.	0.147	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	44.4	Inc. frq. avg.	0.147	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 1024 t_cohere infinite	dr window (ns/s)	-0.012	0.012

B: az 99.5 el 62.9 pa -54.7 X: az 118.4 el 63.5 pa -37.8 u,v (fr/asec) -858.442 -778.068 simultaneous interpolator

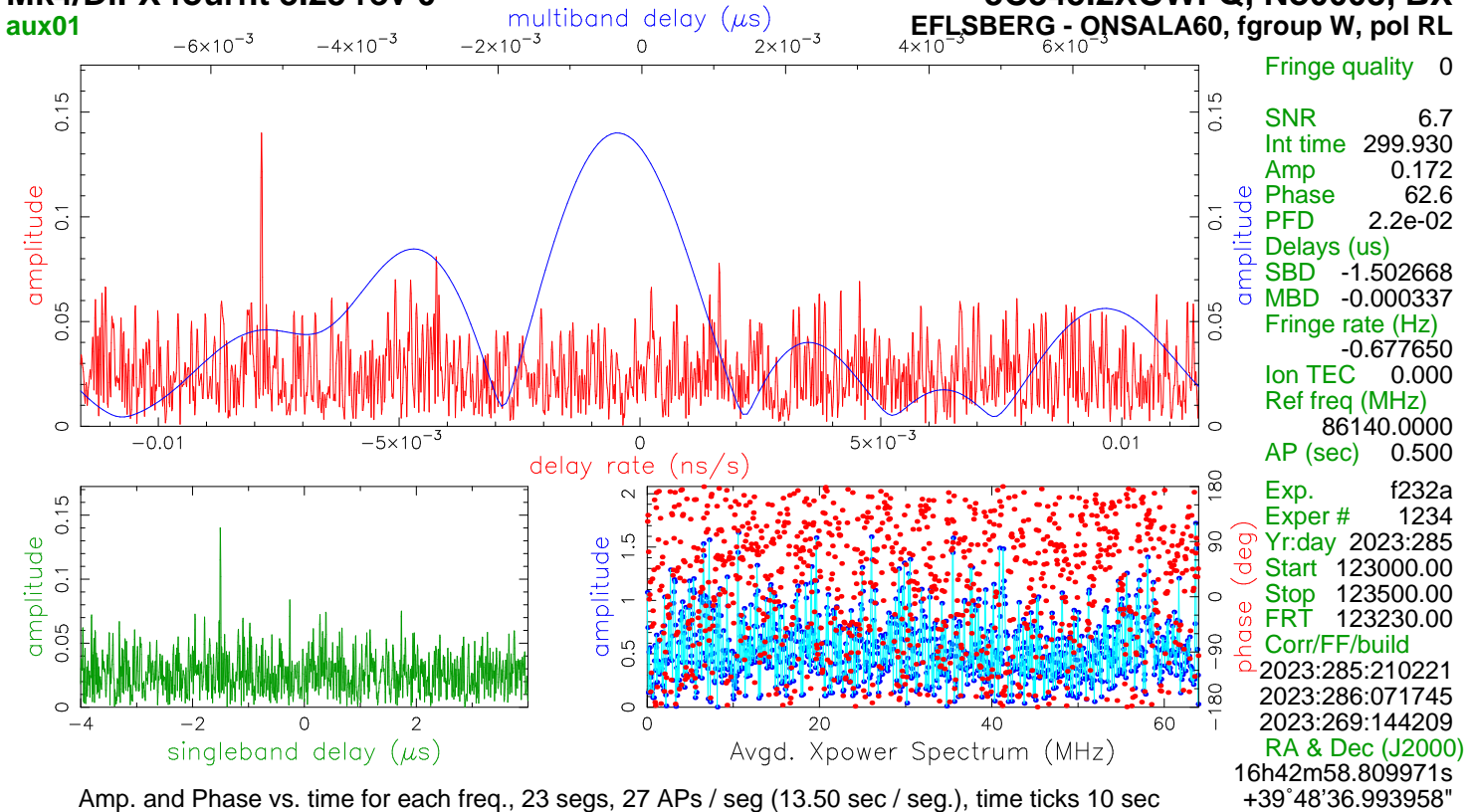
Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BX..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BX.W.26.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

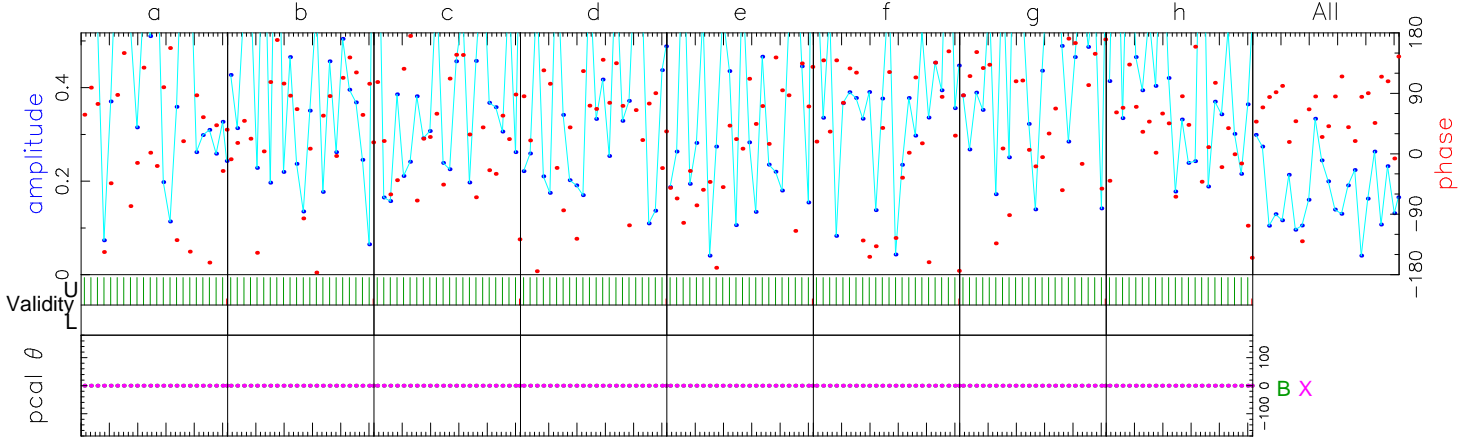
aux01

3C345.2XOWFQ, No0003, BX

EFLSBERG - ONSALA60, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 sec / seg.), time ticks 10 sec



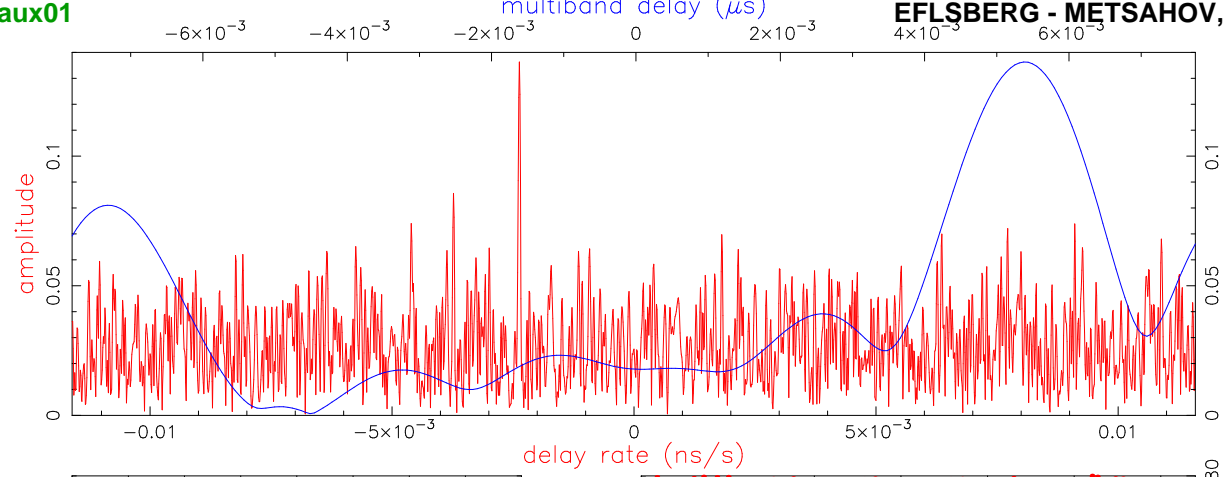
86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
56.7	73.3	43.3	69.2	-14.8	98.3	86.0	39.8	Phase	62.6
0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	Ampl.	0.2
567.3	146.5	516.0	564.6	555.0	1977.7	1287.8	635.0	Sbd box	640.3
U/L	600/0	600/0	600/0	600/0	600/0	600/0	600/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	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	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec) (SBD)	-2.15603411023E+02		Apriori delay (usec)	-2.14103073941E+02	Resid mbdelay (usec)	-3.37082E-04	+/-	1.6E-04	
Sband delay (usec)	-2.15605741691E+02		Apriori clock (usec)	-1.3353635E+02	Resid sbdelay (usec)	-1.50267E+00	+/-	1.3E-03	
Phase delay (usec)	-2.14103071923E+02		Apriori clockrate (us/s)	1.3800001E-06	Resid phdelay (usec)	2.01795E-06	+/-	5.5E-07	
Delay rate (us/s)	1.14215133759E-01		Apriori rate (us/s)	1.14223000603E-01	Resid rate (us/s)	-7.86684E-06	+/-	3.2E-09	
Total phase (deg)		-221.6	Apriori accel (us/s/s)	-4.67063841367E-06	Resid phase (deg)	62.6	+/-	17.1	
RMS	Theor.	Amplitude	0.172 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5			
49.3	41.0	Search (2048X32)	0.138	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000		
57.7	71.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
38.5	24.2	Inc. seg. avg.	0.172	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012	0.012		
36.0	42.2	Inc. frq. avg.	0.174	Data rate(Mb/s): 2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00	0.00	
B: az 99.5 el 62.9 pa -54.7		X: az 118.4 el 63.5 pa -37.8		u,v (fr/asec) -858.442 -778.068		simultaneous interpolator			
Control file: cf_1234_gmva		Input file: /Exps/f232a/FRINGE/1234/No0003/BX..2XOWFQ		Output file: /Exps/f232a/FRINGE/1234/No0003/BX.W.33.2XOWFQ					

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.2XOWFQ, No0003, BZ

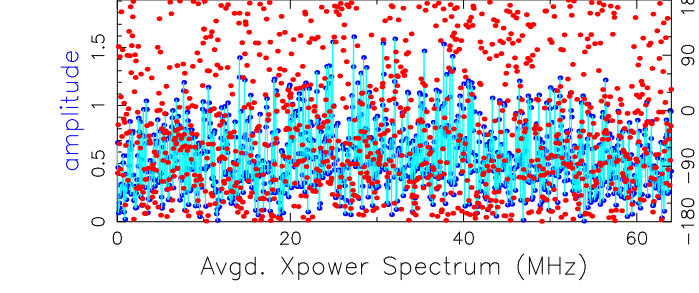
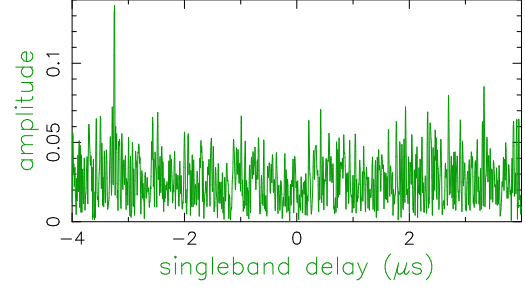
EFLSBERG - METSAHOV, fgroup W, pol RR



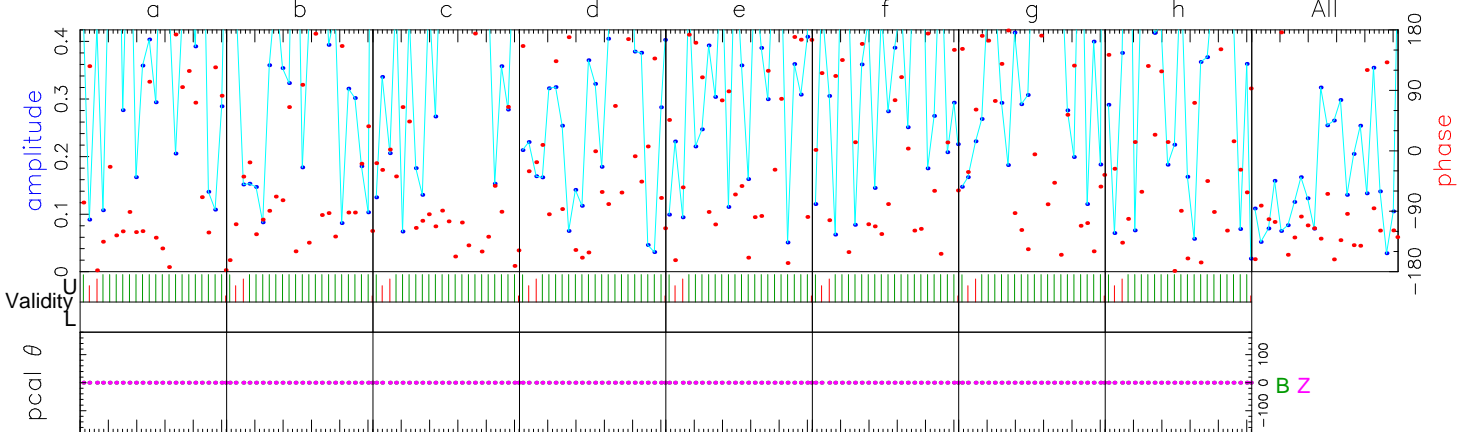
Fringe quality 0

SNR 6.4
 Int time 292.255
 Amp 0.140
 Phase -123.7
 PFD 1.3e-01
 Delays (us)
 SBD -3.247285
 MBD 0.005375
 Fringe rate (Hz)
 -0.204759
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071726
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 sec / seg.), time ticks 10 sec



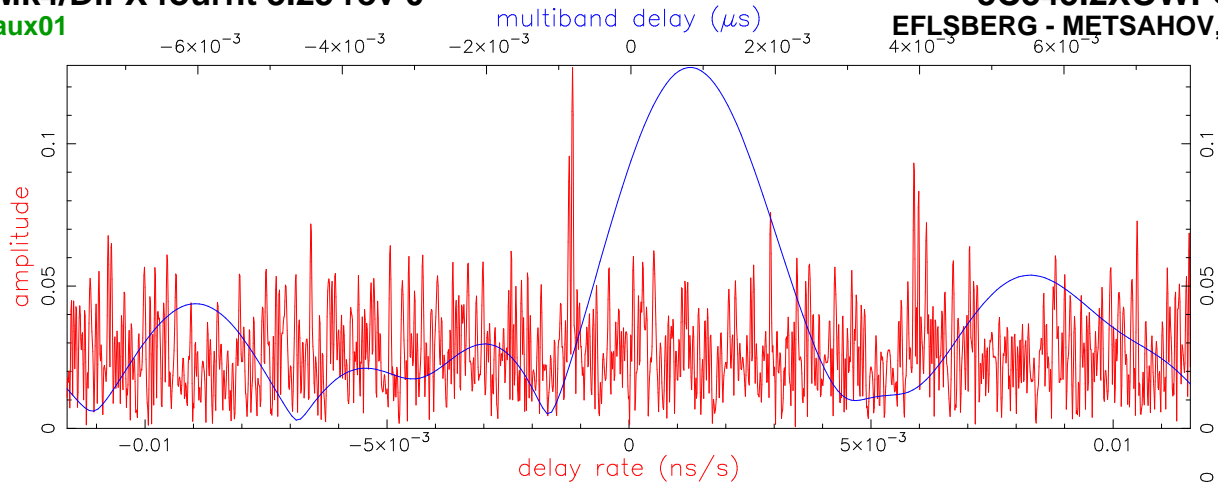
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-135.7	-121.2	-118.5	-76.3	-131.1	-150.3	-124.4	-108.5	Phase	-123.7	
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1	
	110.3	368.1	194.8	6.8	2034.0	1724.0	1630.7	1960.1	Sbd box	193.7	
U/L	592/0	592/0	592/0	592/0	592/0	592/0	592/0	592/0	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	PC amp		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec) (SBD)	-5.80260914668E+02		Apriori delay (usec)		-5.77016289900E+02		Resid mbdelay (usec)		5.37523E-03	+/- 1.7E-04	
Sband delay (usec)	-5.80263574650E+02		Apriori clock (usec)		-3.1283817E+01		Resid sbdelay (usec)		-3.24728E+00	+/- 1.3E-03	
Phase delay (usec)	-5.77016293888E+02		Apriori clockrate (us/s)		2.0100000E-06		Resid phdelay (usec)		-3.98784E-06	+/- 5.7E-07	
Delay rate (us/s)	2.57359288103E-01		Apriori rate (us/s)		2.57361665152E-01		Resid rate (us/s)		-2.37705E-06	+/- 3.4E-09	
Total phase (deg)			Apriori accel (us/s/s)		-4.04439307988E-06		Resid phase (deg)		-123.7	+/- 17.8	
	RMS	Theor.	Amplitude	0.140 +/- 0.022		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	43.7	42.4	Search (2048X32)	0.134		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-4.000 4.000	
amp/seg (%)	72.1	74.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	23.9	25.2	Inc. seg. avg.	0.132		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.012 0.012	
amp/frq (%)	45.2	44.0	Inc. frq. avg.	0.132		Data rate(Mb/s): 2048		nlags: 1024 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 99.5 el 62.9 pa -54.7	Z: az 142.7 el 66.6 pa -22.5		u, v (fr/asec) -1924.578 -900.951						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/f232a/FRINGE/1234/No0003/BZ..2XOWFQ		Output file: /Exps/f232a/FRINGE/1234/No0003/BZ.W.21.2XOWFQ								

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.2XOWFQ, No0003, BZ

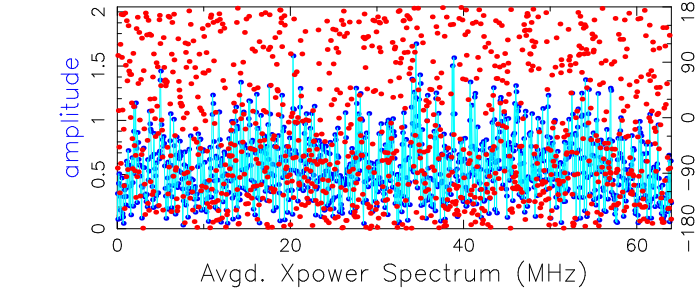
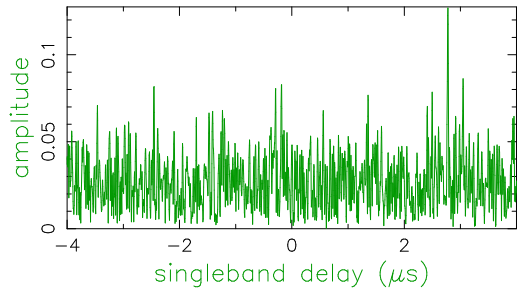
EFLSBERG - METSAHOV, fgroup W, pol LR



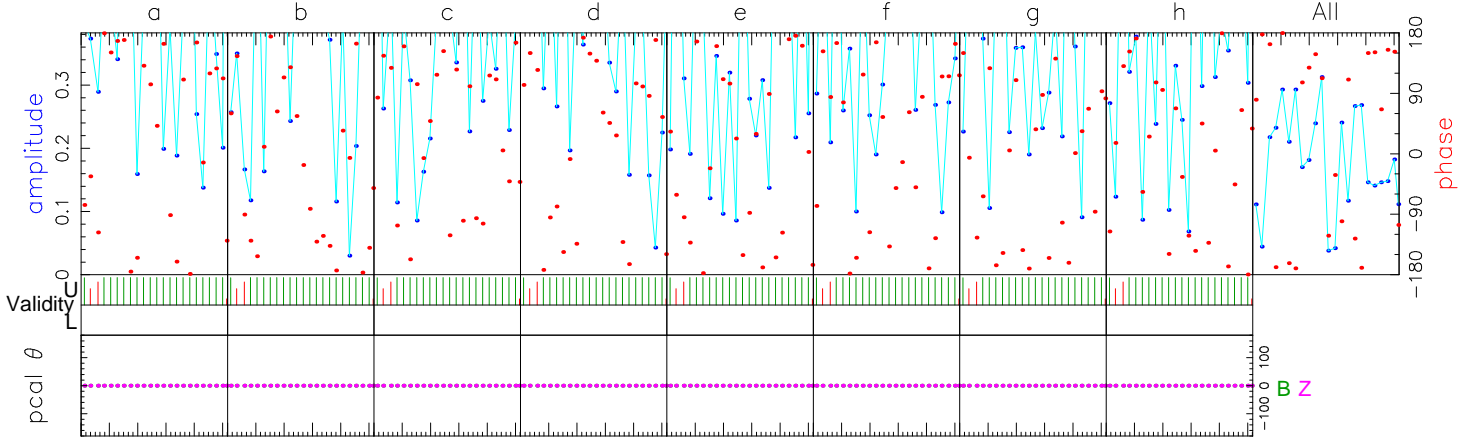
Fringe quality 0

SNR 5.9
 Int time 292.255
 Amp 0.128
 Phase 165.5
 PFD 9.5e-01
 Delays (us)
 SBD 2.776688
 MBD 0.000827
 Fringe rate (Hz)
 -0.100429
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. f232a
 Exper # 1234
 Yr:day 2023:285
 Start 123000.00
 Stop 123500.00
 FRT 123230.00
 Corr/FF/build
 2023:285:210221
 2023:286:071738
 2023:269:144209
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
U/L	592/0	592/0	592/0	592/0	592/0	592/0	592/0	592/0		
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)	-5.74234213233E+02	Apriori delay (usec)	-5.77016289900E+02	Resid mbdelay (usec)	8.26668E-04	+/-	1.8E-04
Sband delay (usec)	-5.74239601900E+02	Apriori clock (usec)	-3.1283817E+01	Resid sbdelay (usec)	2.77669E+00	+/-	1.5E-03
Phase delay (usec)	-5.77016284564E+02	Apriori clockrate (us/s)	2.0100000E-06	Resid phdelay (usec)	5.33639E-06	+/-	6.2E-07
Delay rate (us/s)	2.57360499275E-01	Apriori rate (us/s)	2.57361665152E-01	Resid rate (us/s)	-1.16588E-06	+/-	3.6E-09
Total phase (deg)		Apriori accel (us/s/s)	-4.04439307988E-06	Resid phase (deg)	165.5	+/-	19.3

ph/seg (deg)	60.4	Theor.	46.0	Amplitude	0.128 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	77.2		80.2	Search (2048X32)	0.126	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	19.8		27.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.1		47.6	Inc. seg. avg.	0.140	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012 0.012	
				Inc. frq. avg.	0.120	Data rate(Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 99.5 el 62.9 pa -54.7 Z: az 142.7 el 66.6 pa -22.5 u,v (fr/asec) -1924.578 -900.951 simultaneous interpolator

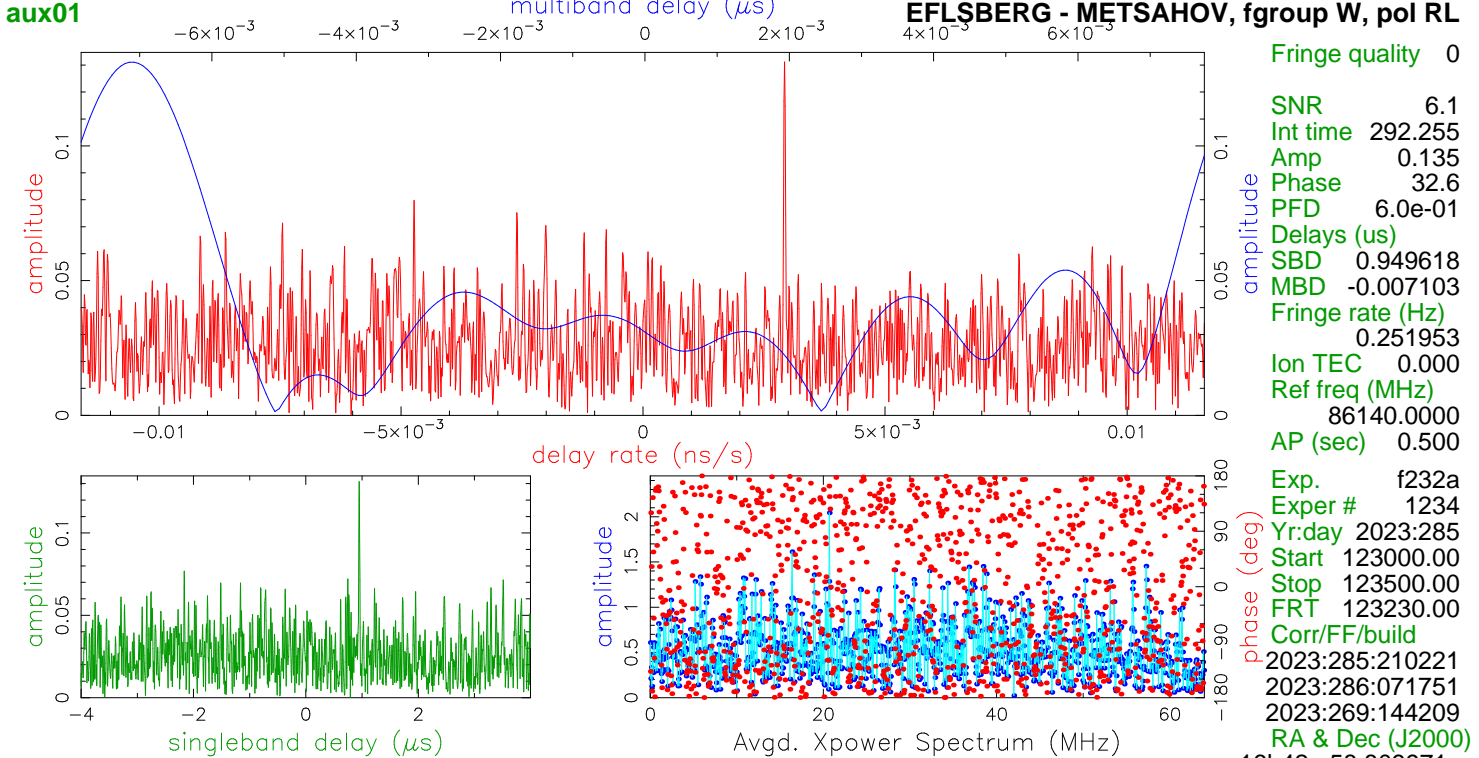
Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BZ..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BZ.W.31.2XOWFQ

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.2XOWFQ, No0003, BZ

EFLSBERG - METSAHOV, fgroup W, pol RL



Fringe quality 0

SNR 6.1

Int time 292.255

Amp 0.135

Phase 32.6

PFD 6.0e-01

Delays (us)

SBD 0.949618

MBD -0.007103

Fringe rate (Hz) 0.251953

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. f232a

Exper # 1234

Yr:day 2023:285

Start 123000.00

Stop 123500.00

FRT 123230.00

Corr/FF/build

2023:285:210221

2023:286:071751

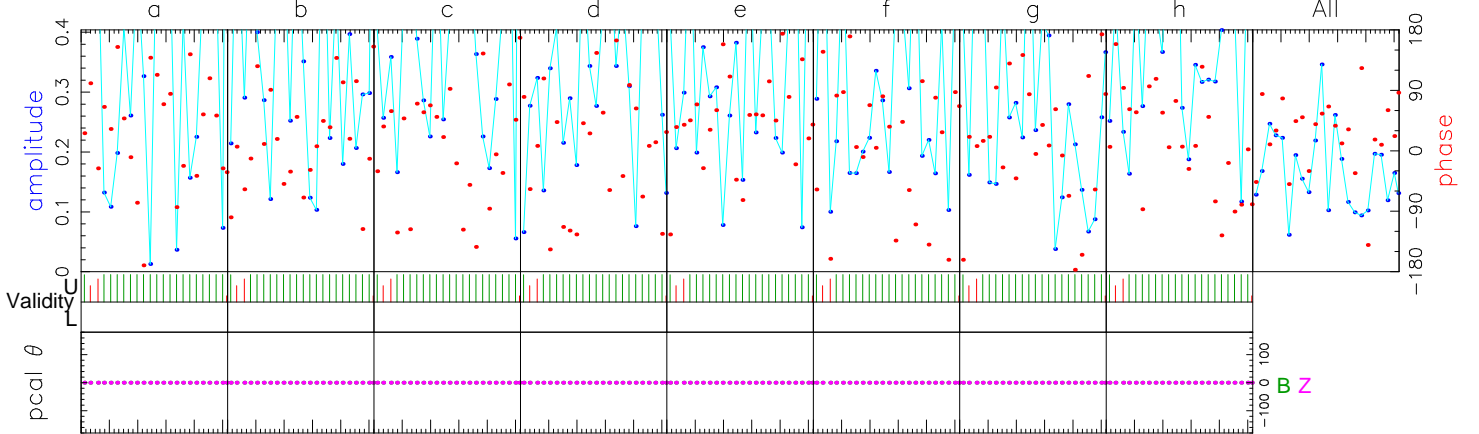
2023:269:144209

RA & Dec (J2000)

16h42m58.809971s

+39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
	53.6	13.7	25.6	-4.8	39.5	66.0	28.0	31.9	Phase	32.6
	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	1049.8	504.1	546.2	1216.6	1221.0	315.2	1397.5	472.6	Sbd box	1268.1
U/L	592/0	592/0	592/0	592/0	592/0	592/0	592/0	592/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -5.76070268299E+02 Apriori delay (usec) -5.77016289900E+02 Resid mbdelay (usec) -7.10340E-03 +/- 1.8E-04

Sband delay (usec) -5.76066671900E+02 Apriori clock (usec) -3.1283817E+01 Resid sbdelay (usec) 9.49618E-01 +/- 1.4E-03

Phase delay (usec) -5.77016288848E+02 Apriori clockrate (us/s) 2.0100000E-06 Resid phdelay (usec) 1.05232E-06 +/- 6.0E-07

Delay rate (us/s) 2.57364590075E-01 Apriori rate (us/s) 2.57361665152E-01 Resid rate (us/s) 2.92492E-06 +/- 3.5E-09

Total phase (deg) -43.7 Apriori accel (us/s/s) -4.04439307988E-06 Resid phase (deg) 32.6 +/- 18.7

RMS Theor. Amplitude 0.135 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 56.1 44.5 Search (2048X32) 0.127 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

amp/seg (%) 58.6 77.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

ph/frq (deg) 23.9 26.4 Inc. seg. avg. 0.133 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.012 0.012

amp/frq (%) 35.2 46.1 Inc. frq. avg. 0.128 Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 99.5 el 62.9 pa -54.7 Z: az 142.7 el 66.6 pa -22.5 u,v (fr/asec) -1924.578 -900.951 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BZ..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BZ.W.39.2XOWFQ

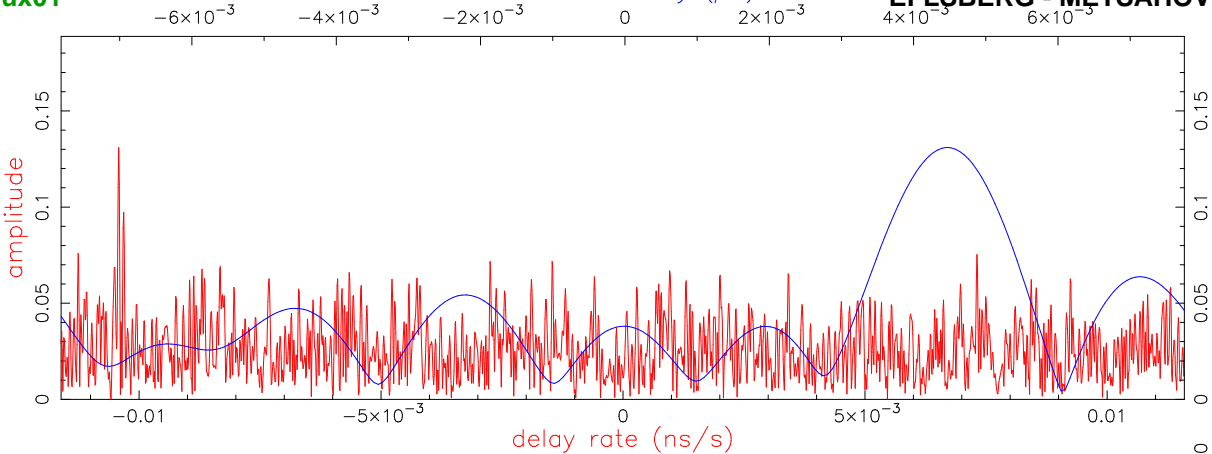
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.2XOWFQ, No0003, BZ

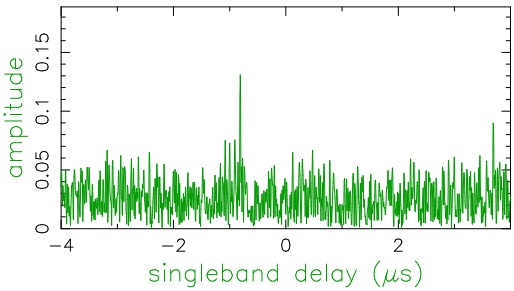
EFLSBERG - METSAHOV, fgroup W, pol LL

multiband delay (μ s)

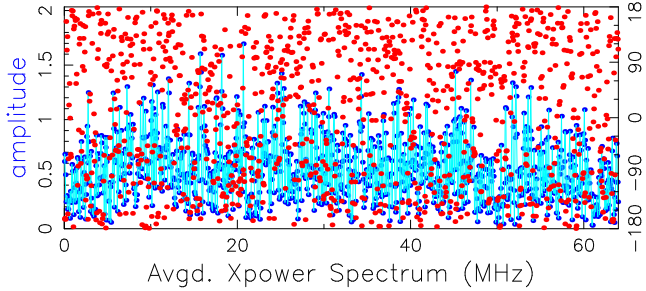


Fringe quality 0

SNR 6.2
Int time 292.255
Amp 0.189
Phase 107.1
PFD 5.1e-01
Delays (us)
SBD -0.811406
MBD 0.004499
Fringe rate (Hz)
-0.898444
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

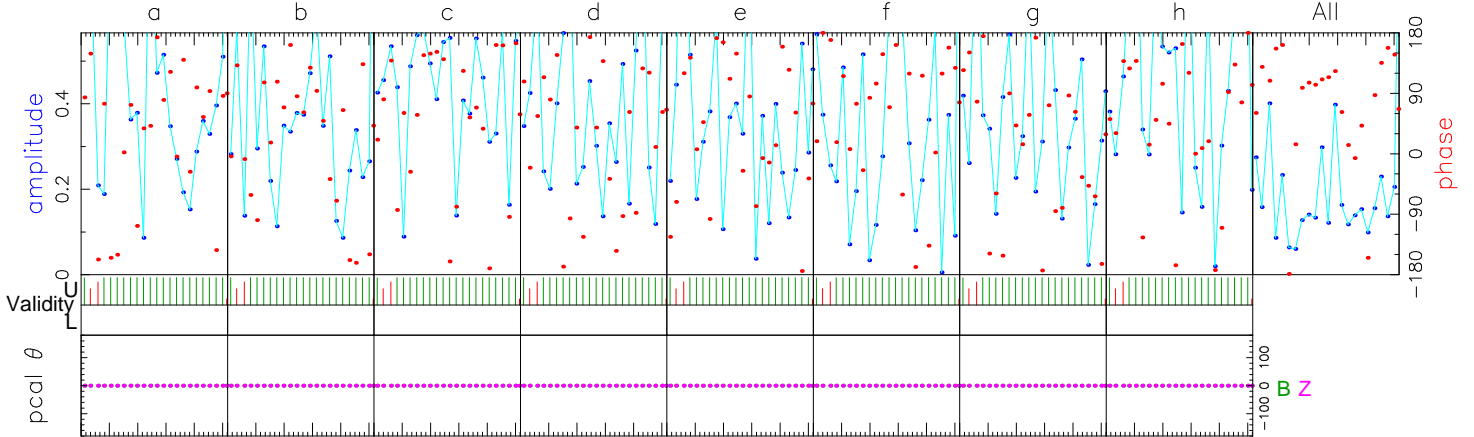


delay rate (ns/s)



Exp. f232a
Exper # 1234
Yr:day 2023:285
Start 123000.00
Stop 123500.00
FRT 123230.00
Corr/FF/build
2023:285:210221
2023:286:071714
2023:269:144209
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 27 APs / seg (13.50 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
	103.7	85.4	126.1	128.3	113.9	95.4	91.3	106.4	Phase	107.1
	0.2	0.1	0.3	0.1	0.2	0.1	0.2	0.4	Ampl.	0.2
	86.1	1137.4	819.1	538.2	977.5	1481.4	865.2	517.7	Sbd box	817.3
U/L	592/0	592/0	592/0	592/0	592/0	592/0	592/0	592/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-5.77824290820E+02	Apriori delay (usec)	-5.77016289900E+02	Resid mbdelay (usec)	4.49908E-03	+/-	1.8E-04
Sband delay (usec)	-5.77827695900E+02	Apriori clock (usec)	-3.1283817E+01	Resid sbdelay (usec)	-8.11406E-01	+/-	1.4E-03
Phase delay (usec)	-5.77016286445E+02	Apriori clockrate (us/s)	2.0100000E-06	Resid phdelay (usec)	3.45510E-06	+/-	6.0E-07
Delay rate (us/s)	2.57351235114E-01	Apriori rate (us/s)	2.57361665152E-01	Resid rate (us/s)	-1.04300E-05	+/-	3.5E-09
Total phase (deg)		Apriori accel (us/s/s)	-4.04439307988E-06	Resid phase (deg)	107.1	+/-	18.6

ph/seg (deg)	55.1	RMS	44.2	Theor.	44.2	Amplitude	0.189 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	88.8	Search (2048X32)	0.128	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	17.0	Inc. seg. avg.	0.199	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.012 0.012	Data rate (Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	45.3	Inc. frq. avg.	0.174									

B: az 99.5 el 62.9 pa -54.7 Z: az 142.7 el 66.6 pa -22.5 u,v (fr/asec) -1924.578 -900.951 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/f232a/FRINGE/1234/No0003/BZ..2XOWFQ Output file: /Exps/f232a/FRINGE/1234/No0003/BZ.W.9.2XOWFQ