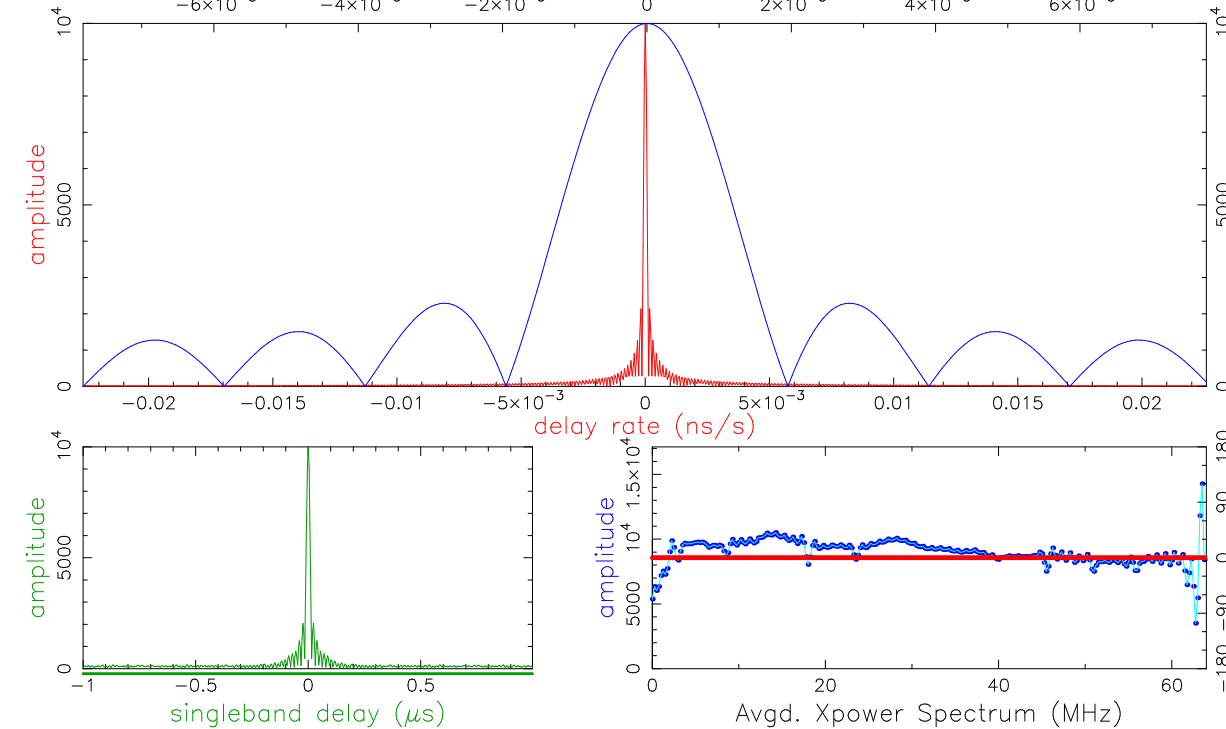


Mk4/DiFX fourfit 3.25 rev 0

aux01

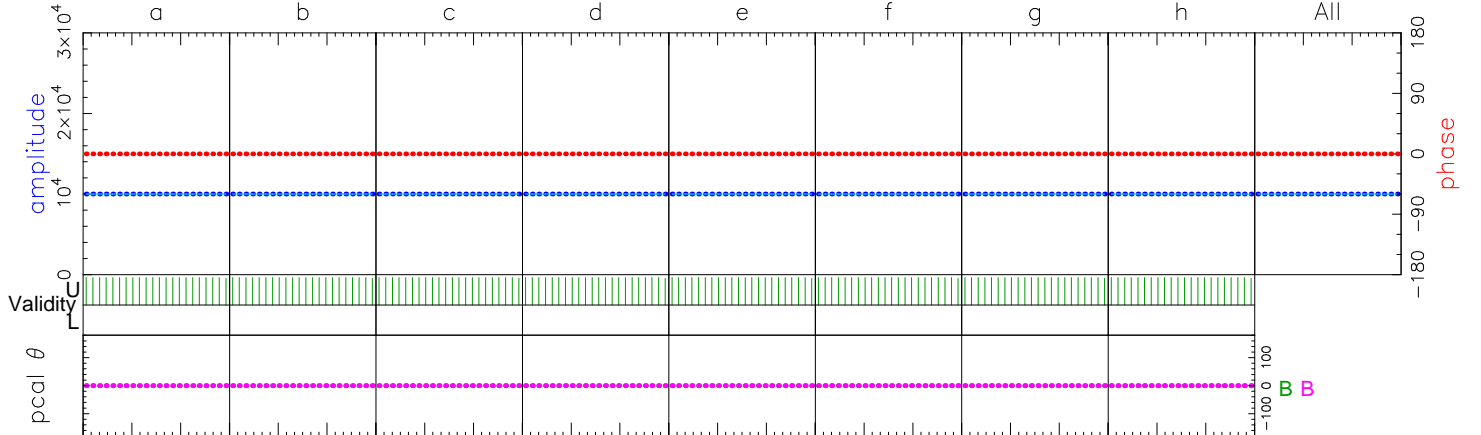
3C345.3MP1HX, No0399, BB

EFLSBERG - EFLSBERG, fgroup Q, pol LL



Fringe quality 9  
 SNR 366859.2  
 Int time 179.971  
 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) 43140.0000  
 AP (sec) 0.512  
 Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145505  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



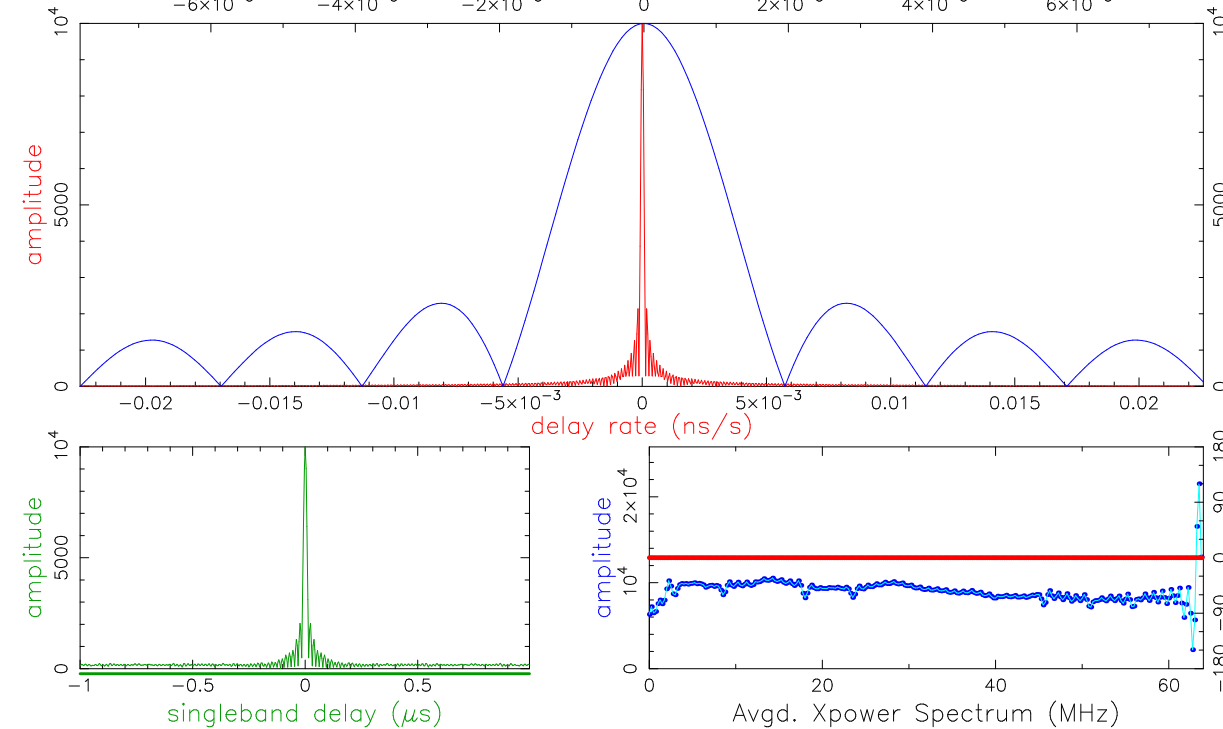
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
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	0.00000E+00	+/- 3.0E-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	0.00000E+00	+/- 2.3E-08
Phase 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	0.00000E+00	+/- 2.0E-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	0.00000E+00	+/- 1.9E-13
Total phase (deg)			0.0						0.0	+/- 0.0
ph/seg (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
amp/seg (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ph/frq (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
amp/frq (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
B: az 78.3 el 45.3 pa -54.2	B: az 78.3 el 45.3 pa -54.2		u,v (fr/asec) 0.000 0.000		simultaneous interpolator					
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0399/BB..3MP1HX		Output file: /Exps/c241d/v1/7mm/1234/No0399/BB.Q.11.3MP1HX							

Mk4/DiFX fourfit 3.25 rev 0

aux01

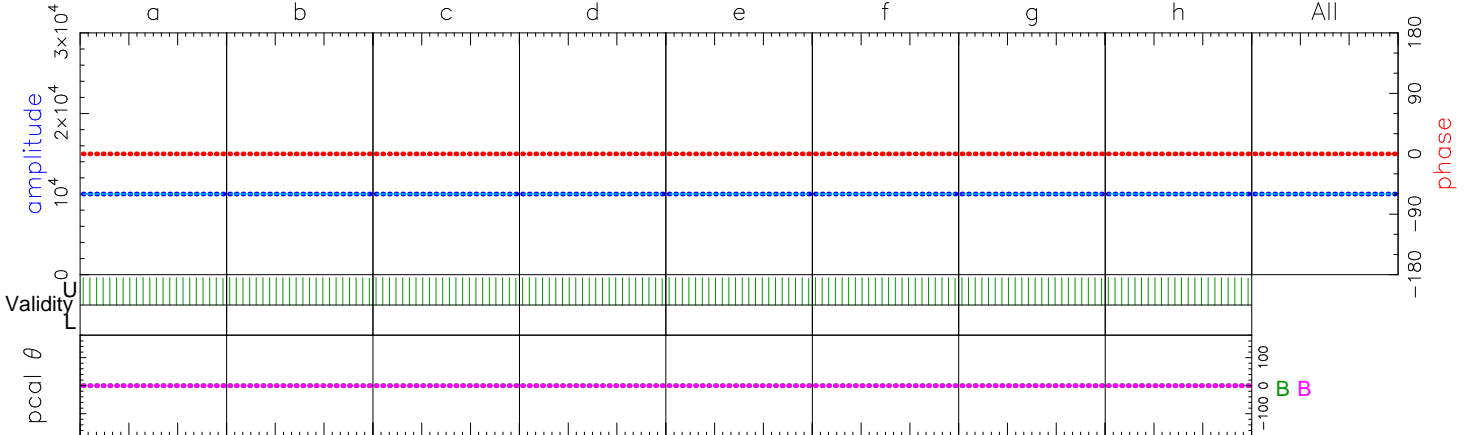
3C345.3MP1HX, No0399, BB

EFLSBERG - EFLSBERG, fgroup Q, pol RR



Fringe quality 9  
 SNR 366859.2  
 Int time 179.971  
 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) 43140.0000  
 AP (sec) 0.512  
 Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145507  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
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	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-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) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 2.0E-11  
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 1.9E-13  
 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 +/- 0.027 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) -1.000 1.000  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.001 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

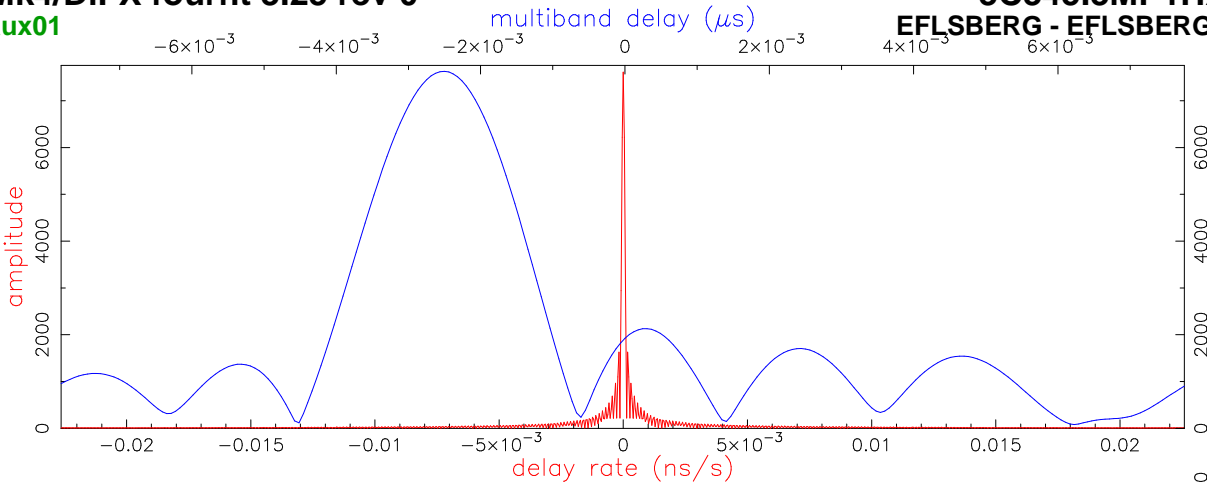
B: az 78.3 el 45.3 pa -54.2 B: az 78.3 el 45.3 pa -54.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BB..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BB.Q.28.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

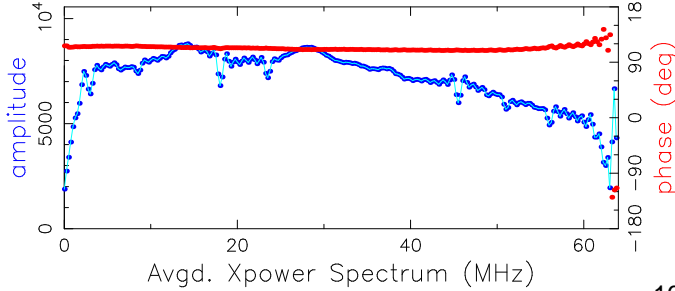
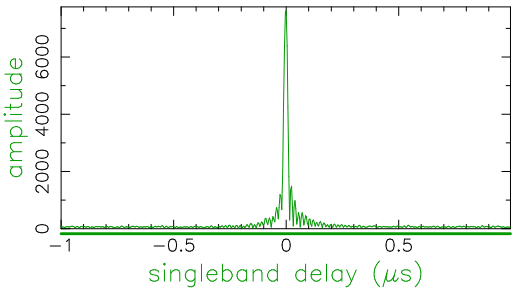
3C345.3MP1HX, No0399, BB

EFLSBERG - EFLSBERG, fgroup Q, pol LR



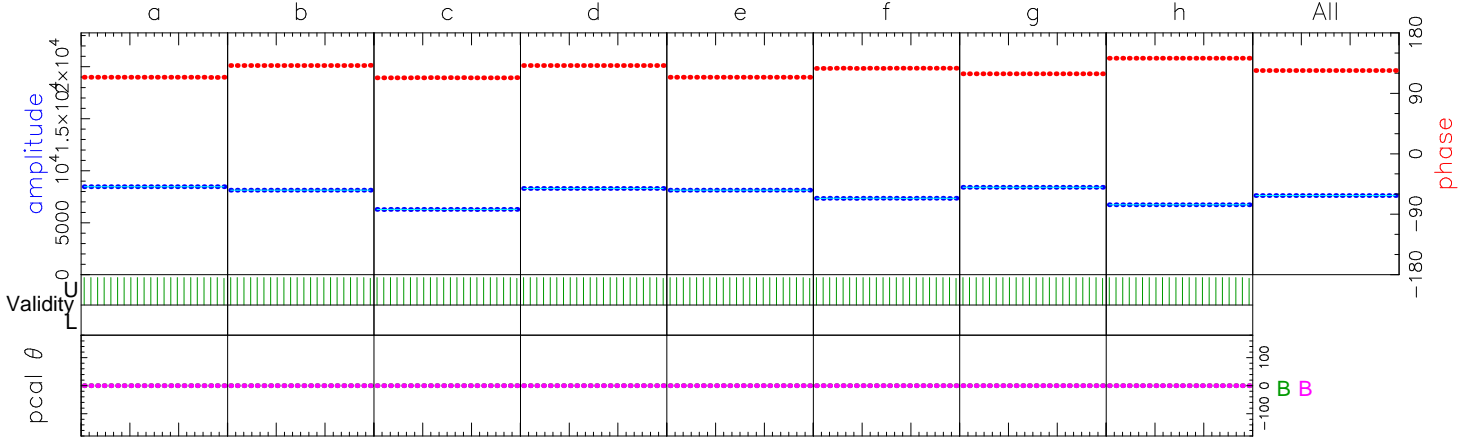
Fringe quality 8

SNR 284491.3  
 Int time 179.971  
 Amp 7754.783  
 Phase 123.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.001800  
 MBD -0.002583  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145510  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	113.7	131.4	113.1	131.4	113.9	127.2	119.0	142.0	Phase	123.8
	8466.6	8130.3	6278.4	8291.0	8132.0	7349.2	8405.4	6735.0	Ampl.	7723.5
	256.9	256.1	256.5	256.6	256.2	256.7	256.3	258.1	Sbd box	256.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	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	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	-2.58256250000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.58256E-03	+/-	3.8E-09
Sband delay (usec)	-1.79975000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.79975E-03	+/-	3.0E-08
Phase delay (usec)	7.96975473094E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.96975E-06	+/-	2.6E-11
Delay rate (us/s)	2.82963158790E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.82963E-12	+/-	2.5E-13
Total phase (deg)	123.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	123.8	+/-	0.0

ph/seg (deg) 0.0 0.0 Search (1024X32) 7614.190 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 1.8 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 11.5 0.0 Inc. seg. avg. 7612.852 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 10.1 0.0 Inc. frq. avg. 7723.495 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023  
 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 B: az 78.3 el 45.3 pa -54.2 B: az 78.3 el 45.3 pa -54.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BB..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BB.Q.46.3MP1HX

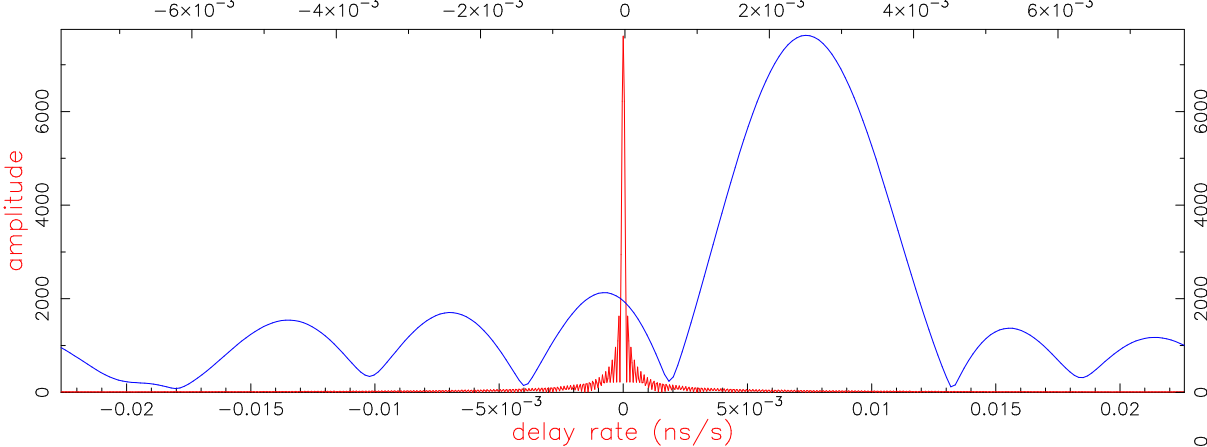
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, BB

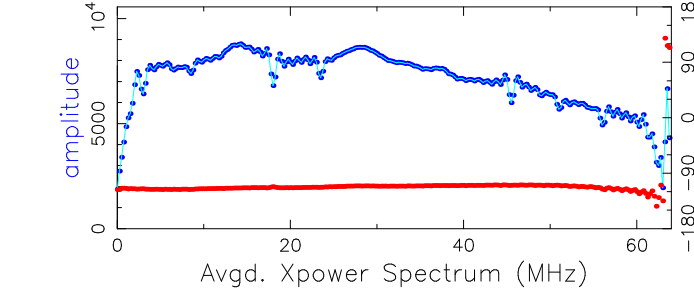
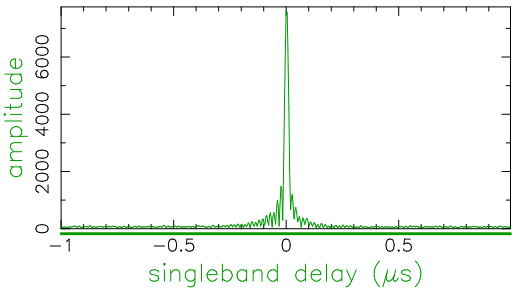
EFLSBERG - EFLSBERG, fgroup Q, pol RL

multiband delay ( $\mu$ s)



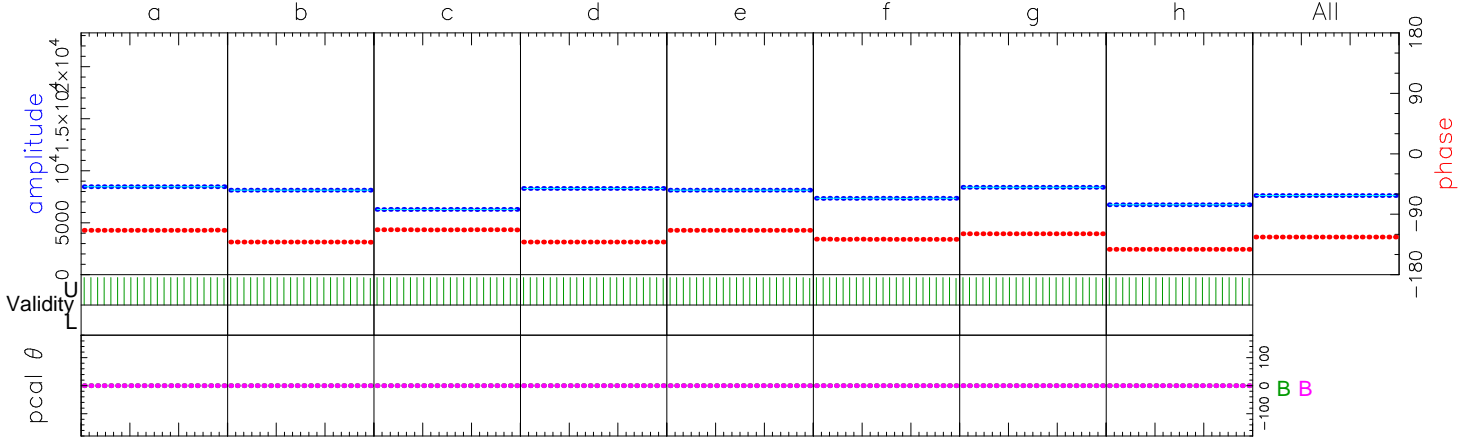
Fringe quality 8

SNR 284491.3  
 Int time 179.971  
 Amp 7754.783  
 Phase -123.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.001800  
 MBD 0.002583  
 Fringe rate (Hz)  
 -0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145511  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-113.7	-131.4	-113.1	-131.4	-113.9	-127.2	-119.0	-142.0	Phase	-123.8
	8466.6	8130.3	6278.4	8291.0	8132.0	7349.2	8405.4	6735.0	Ampl.	7723.5
	257.1	257.9	257.5	257.4	257.8	257.3	257.7	255.9	Sbd box	257.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	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	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD) 2.58256250000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 2.58256E-03 +/- 3.8E-09  
 Sband delay (usec) 1.79975000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 1.79975E-03 +/- 3.0E-08  
 Phase delay (usec) -7.96975473094E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -7.96975E-06 +/- 2.6E-11  
 Delay rate (us/s) -2.82963158790E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -2.82963E-12 +/- 2.5E-13  
 Total phase (deg) -123.8 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -123.8 +/- 0.0

RMS Theor. Amplitude 7754.783 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (1024X32) 7614.190 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 1.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 11.5 0.0 Inc. seg. avg. 7612.852 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023  
 amp/frq (%) 10.1 0.0 Inc. frq. avg. 7723.495 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 78.3 el 45.3 pa -54.2 B: az 78.3 el 45.3 pa -54.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BB..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BB.Q.60.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

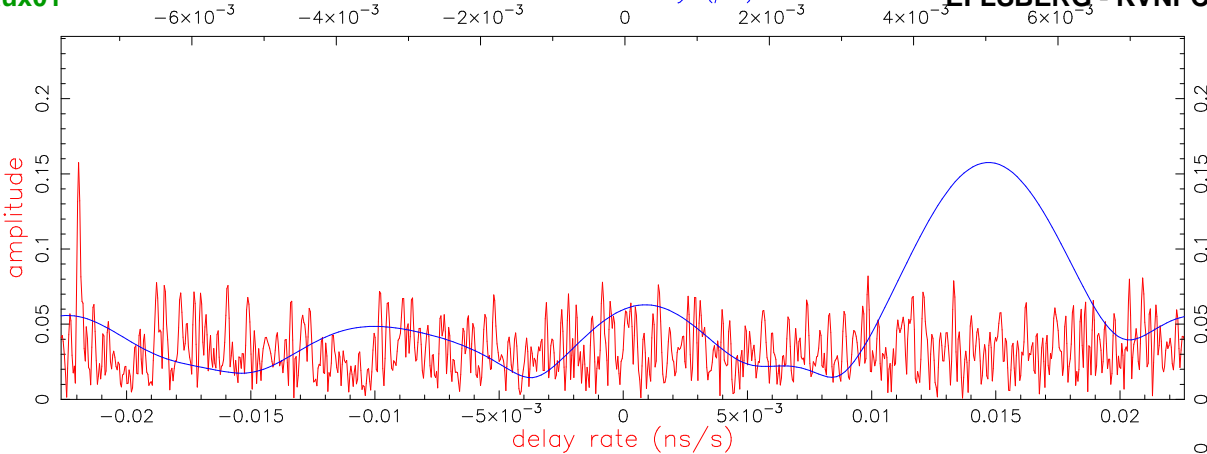
aux01

3C345.3MP1HX, No0399, BL

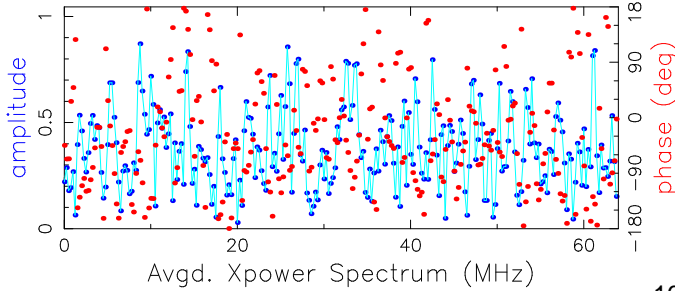
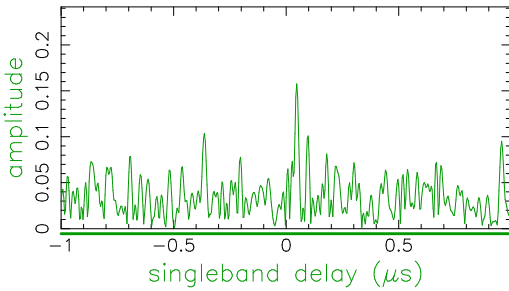
EFLSBERG - KVNPC, fgroup Q, pol RR

multiband delay ( $\mu$ s)

Fringe quality 0

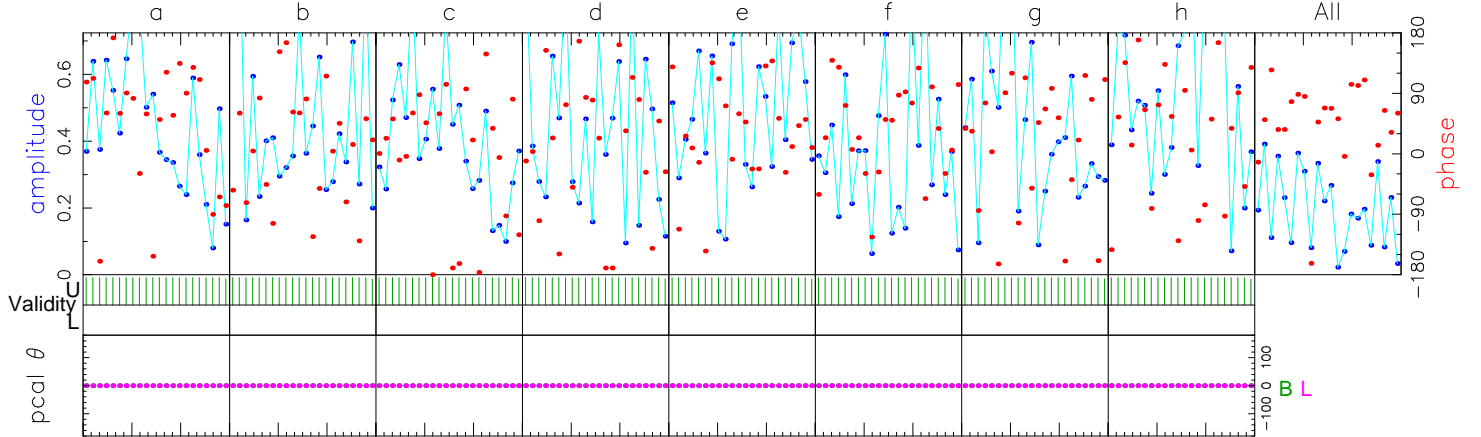


SNR 5.8  
 Int time 179.807  
 Amp 0.241  
 Phase 305.6  
 PFD 6.1e-01  
 Delays (us)  
 SBD 0.046753  
 MBD 0.005038  
 Fringe rate (Hz)  
 -0.951959  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145507  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	91.5	20.3	75.7	61.8	37.0	35.9	76.1	88.6	Phase	58.1
	0.3	0.3	0.2	0.1	0.4	0.3	0.3	0.2	Ampl.	0.2
	129.1	499.7	503.8	147.4	356.2	462.1	497.9	384.1	Sbd box	269.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	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	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	7.55756239873E+01	Apriori delay (usec)	7.55237110387E+01	Resid mbdelay (usec)	5.03795E-03	+/-	1.9E-04
Sband delay (usec)	7.55704642887E+01	Apriori clock (usec)	-7.7779150E+00	Resid sbdelay (usec)	4.67533E-02	+/-	1.5E-03
Phase delay (usec)	7.55237147771E+01	Apriori clockrate (us/s)	7.1256178E-06	Resid phdelay (usec)	3.73842E-06	+/-	1.3E-06
Delay rate (us/s)	1.48433015213E+00	Apriori rate (us/s)	1.48435221886E+00	Resid rate (us/s)	-2.20667E-05	+/-	1.2E-08
Total phase (deg)	267.5	Apriori accel (us/s/s)	1.13052957960E-05	Resid phase (deg)	305.6	+/-	19.8

ph/seg (deg)	49.3	RMS	46.5	Theor.	49.3	Amplitude	0.241 +/- 0.042	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	76.2	Search (1024X32)	0.154	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	29.0	Inc. seg. avg.	0.229	Inc. frq. avg.	0.239	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	34.6	Inc. frq. avg.	0.239	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 78.3 el 45.3 pa -54.2 L: az 291.7 el 45.5 pa 73.5 u,v (fr/asec) -5531.446 964.102 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BL...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BL.Q.21.3MP1HX

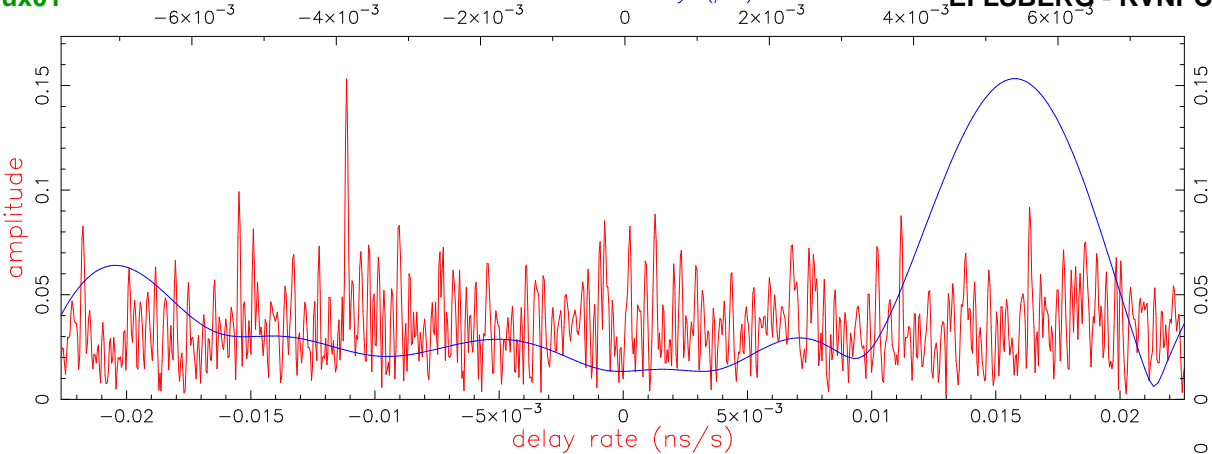
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, BL

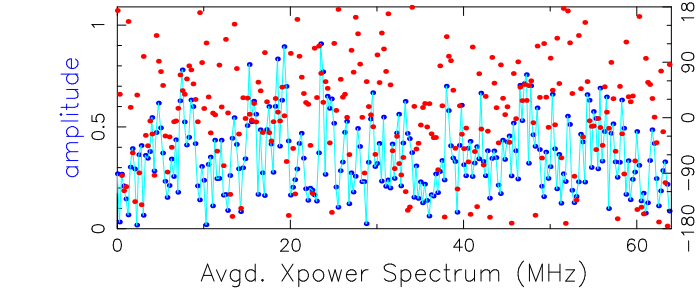
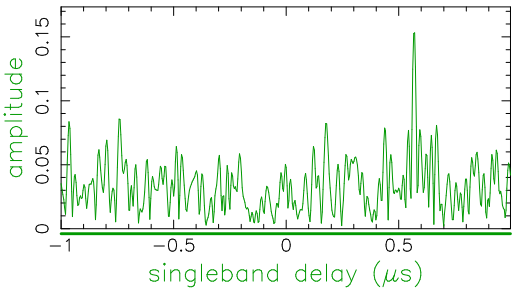
EFLSBERG - KVNPC, fgroup Q, pol LR

multiband delay ( $\mu$ s)



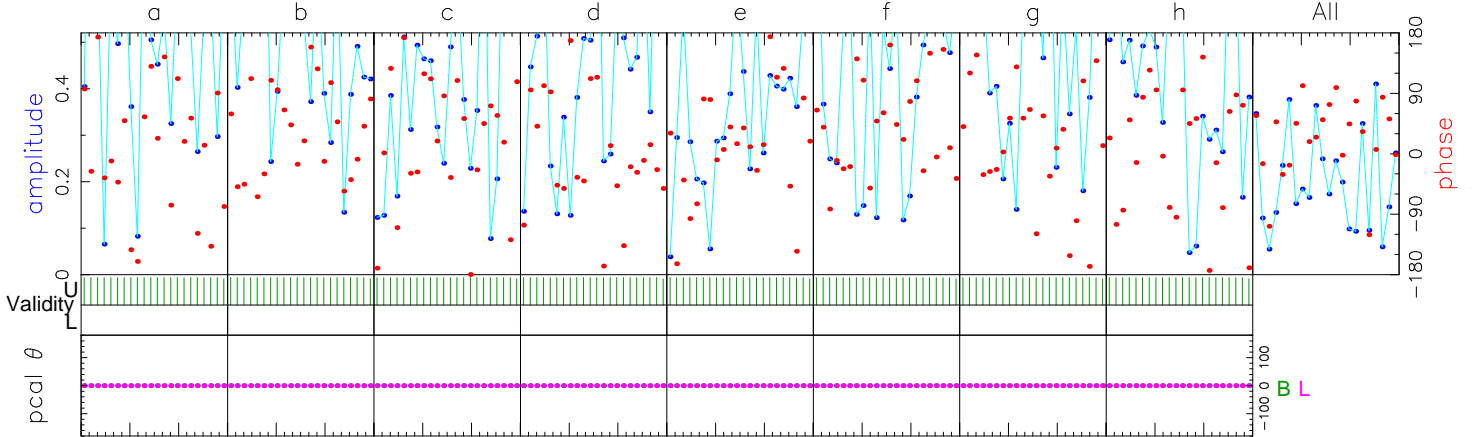
Fringe quality 0

SNR 5.7  
 Int time 179.807  
 Amp 0.173  
 Phase 119.0  
 PFD 7.0e-01  
 Delays (us)  
 SBD 0.568455  
 MBD 0.005366  
 Fringe rate (Hz)  
 -0.483935  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145508  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
L	0	24000	0	0	32000	0	0	40000		
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:L	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		
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD)	7.60915769858E+01	Apriori delay (usec)	7.55237110387E+01	Resid mbdelay (usec)	5.36595E-03	+/-	1.9E-04
Sband delay (usec)	7.60921657887E+01	Apriori clock (usec)	-7.7779150E+00	Resid sbdelay (usec)	5.68455E-01	+/-	1.5E-03
Phase delay (usec)	7.55237129069E+01	Apriori clockrate (us/s)	7.1256178E-06	Resid phdelay (usec)	1.86824E-06	+/-	1.3E-06
Delay rate (us/s)	1.48434100109E+00	Apriori rate (us/s)	1.48435221886E+00	Resid rate (us/s)	-1.12178E-05	+/-	1.2E-08
Total phase (deg)	80.9	Apriori accel (us/s/s)	1.13052957960E-05	Resid phase (deg)	119.0	+/-	20.0

ph/seg (deg)	57.0	Theor.	46.8	Amplitude	0.173 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	73.4	Search (1024X32)	0.150	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	21.6	Inc. seg. avg.	0.170	Inc. frq. avg.	0.158	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	35.0	Inc. frq. avg.	0.158			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 78.3 el 45.3 pa -54.2 L: az 291.7 el 45.5 pa 73.5 u,v (fr/asec) -5531.446 964.102 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BL...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BL.Q.36.3MP1HX

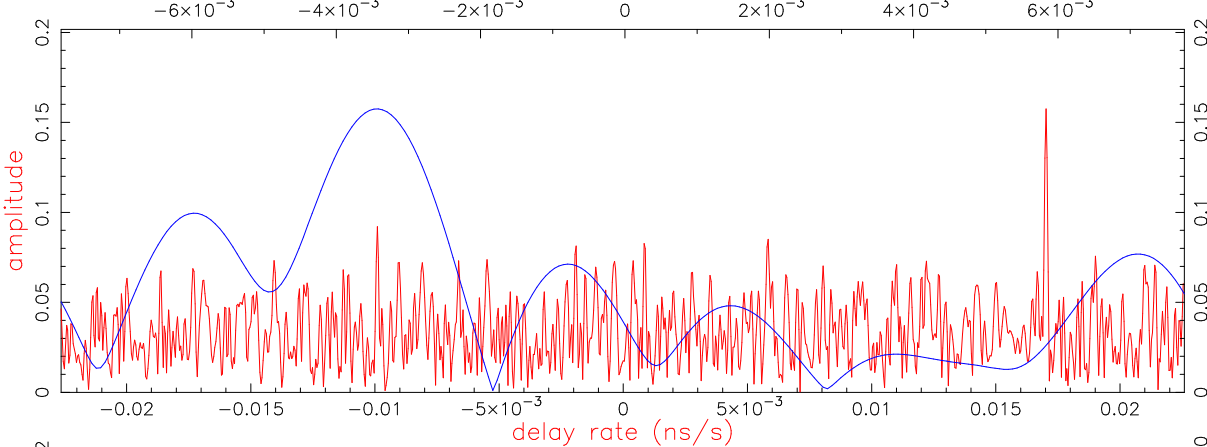
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, BL

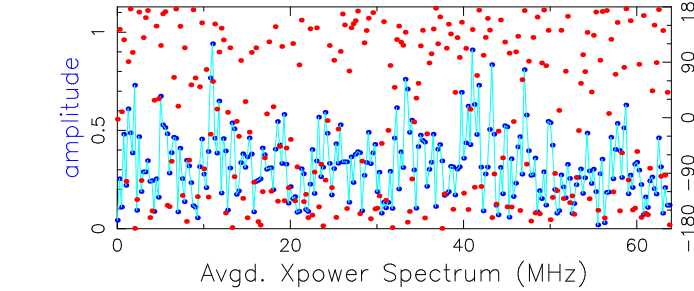
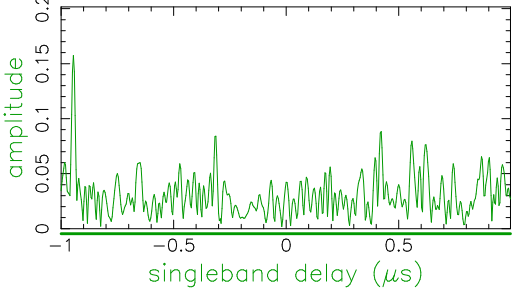
EFLSBERG - KVNPC, fgroup Q, pol RL

multiband delay ( $\mu$ s)



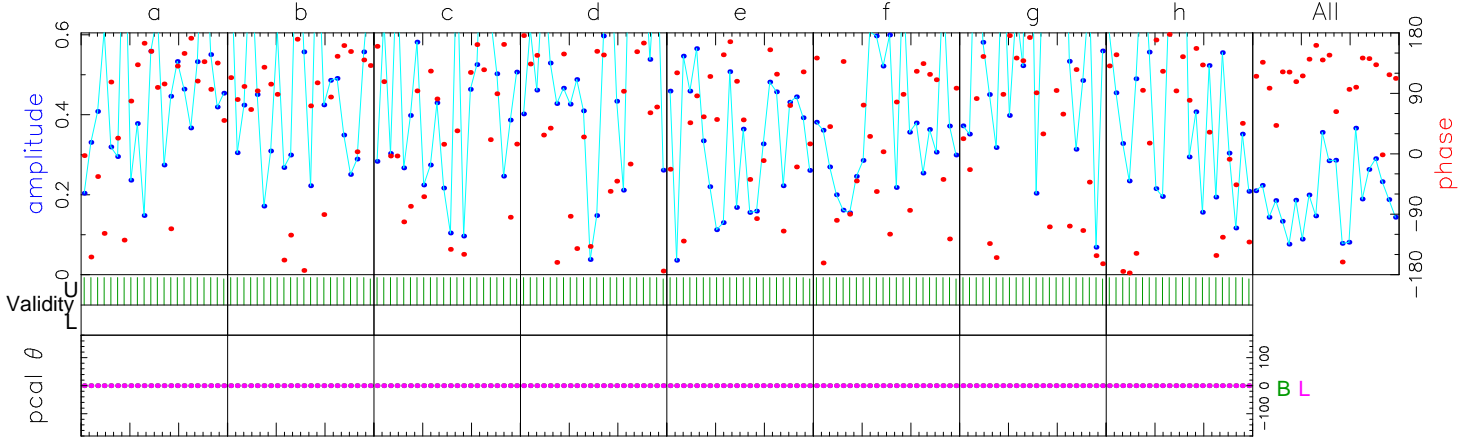
Fringe quality 0

SNR 5.8  
 Int time 179.807  
 Amp 0.202  
 Phase -152.3  
 PFD 6.2e-01  
 Delays (us)  
 SBD -0.945273  
 MBD -0.003435  
 Fringe rate (Hz)  
 0.738133  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145510  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	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	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	7.45827758157E+01	Apriori delay (usec)	7.55237110387E+01	Resid mbdelay (usec)	-3.43522E-03	+/-	1.9E-04
Sband delay (usec)	7.45784382887E+01	Apriori clock (usec)	-7.7779150E+00	Resid sbdelay (usec)	-9.45273E-01	+/-	1.5E-03
Phase delay (usec)	7.55237186174E+01	Apriori clockrate (us/s)	7.1256178E-06	Resid phdelay (usec)	7.57874E-06	+/-	1.3E-06
Delay rate (us/s)	1.48436932904E+00	Apriori rate (us/s)	1.48435221886E+00	Resid rate (us/s)	1.71102E-05	+/-	1.2E-08
Total phase (deg)	-190.4	Apriori accel (us/s/s)	1.13052957960E-05	Resid phase (deg)	-152.3	+/-	19.8

ph/seg (deg)	40.8	Theor.	46.5	Amplitude	0.202 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	58.7	Search (1024X32)	0.156	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	37.4	Inc. seg. avg.	0.191	Inc. frq. avg.	0.196	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	52.3	Inc. frq. avg.	0.196			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023	
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 78.3 el 45.3 pa -54.2 L: az 291.7 el 45.5 pa 73.5 u,v (fr/asec) -5531.446 964.102 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BL...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BL.Q.50.3MP1HX

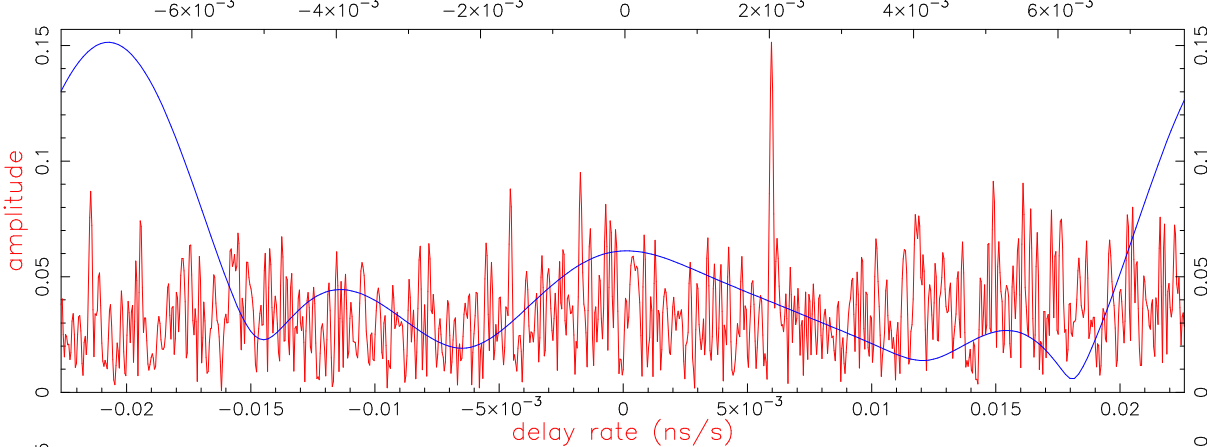
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, BL

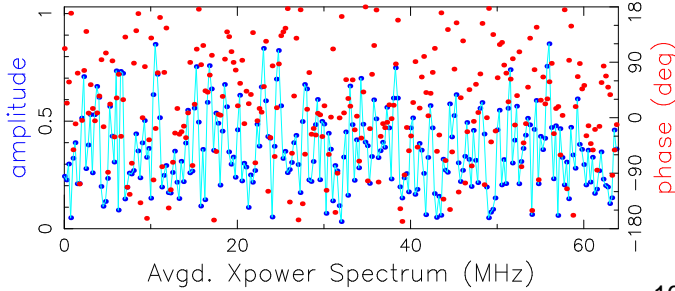
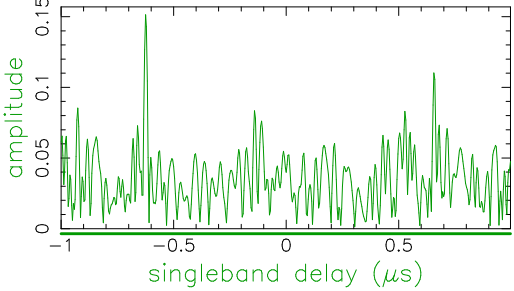
EFLSBERG - KVNPC, fgroup Q, pol LL

multiband delay ( $\mu$ s)



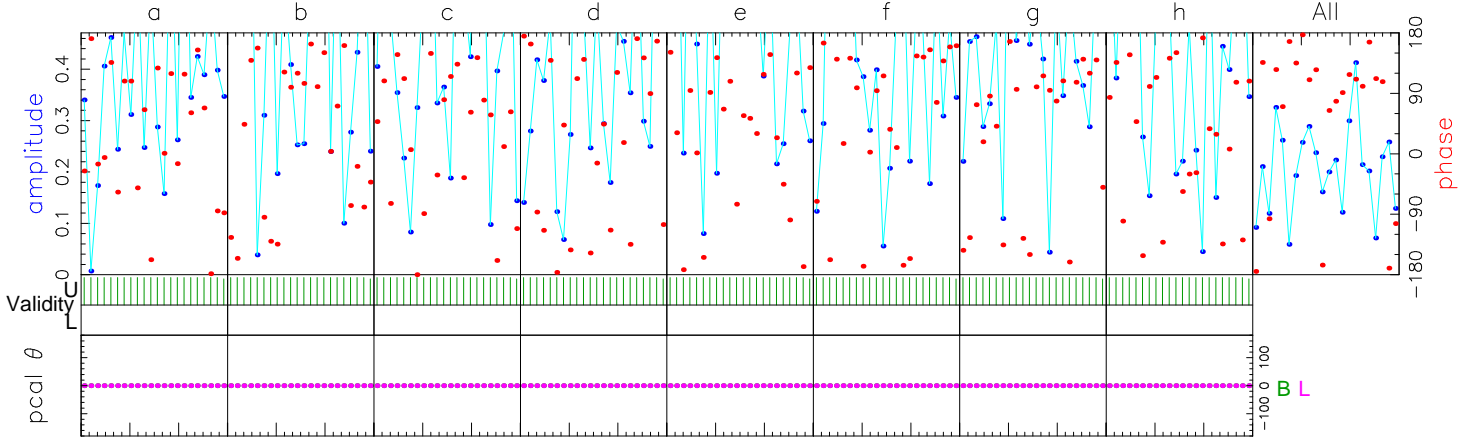
Fringe quality 0

SNR 5.6  
 Int time 179.807  
 Amp 0.157  
 Phase -211.1  
 PFD 9.4e-01  
 Delays (us)  
 SBD -0.624023  
 MBD -0.007131  
 Fringe rate (Hz)  
 0.259628  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145505  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	112.2	156.9	106.4	164.2	84.3	142.2	133.2	114.1	Phase	126.4
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	441.2	330.5	468.4	38.9	461.9	201.8	460.7	192.7	Sbd box	97.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	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	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	7.49072046039E+01	Apriori delay (usec)	7.55237110387E+01	Resid mbdelay (usec)	-7.13143E-03	+/-	1.9E-04
Sband delay (usec)	7.48996877887E+01	Apriori clock (usec)	-7.7779150E+00	Resid sbdelay (usec)	-6.24023E-01	+/-	1.5E-03
Phase delay (usec)	7.55237191786E+01	Apriori clockrate (us/s)	7.1256178E-06	Resid phdelay (usec)	8.13988E-06	+/-	1.3E-06
Delay rate (us/s)	1.48435823712E+00	Apriori rate (us/s)	1.48435221886E+00	Resid rate (us/s)	6.01826E-06	+/-	1.3E-08
Total phase (deg)	-249.2	Apriori accel (us/s/s)	1.13052957960E-05	Resid phase (deg)	-211.1	+/-	20.5

ph/seg (deg)	54.5	RMS	48.1	Theor.	54.5	Amplitude	0.157 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	66.5		83.9		66.5	Search (1024X32)	0.149	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	29.4		29.0		29.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.3		50.6		36.3	Inc. seg. avg.	0.158	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Inc. frq. avg.	0.155	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 78.3 el 45.3 pa -54.2 L: az 291.7 el 45.5 pa 73.5 u,v (fr/asec) -5531.446 964.102 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BL...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BL.Q.6.3MP1HX



Mk4/DiFX fourfit 3.25 rev 0

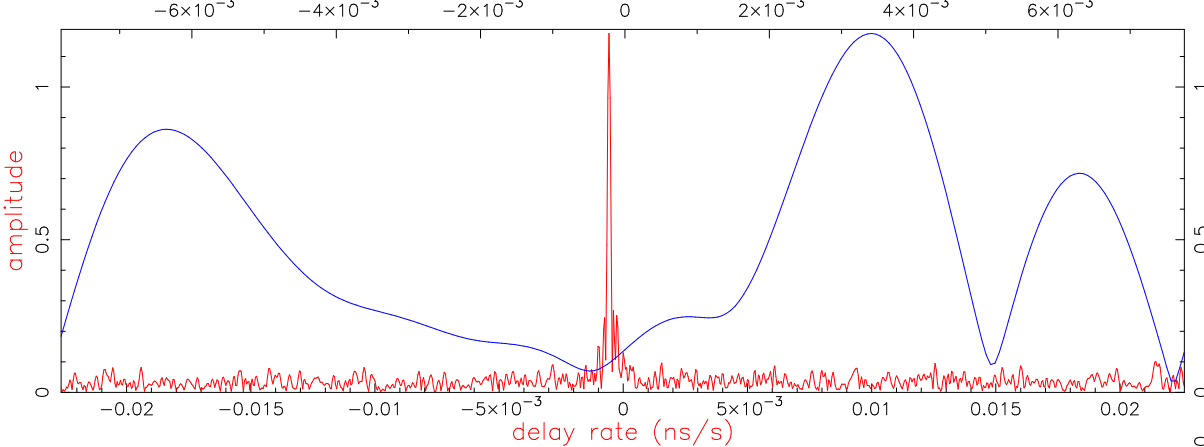
aux01

3C345.3MP1HX, No0399, Bu

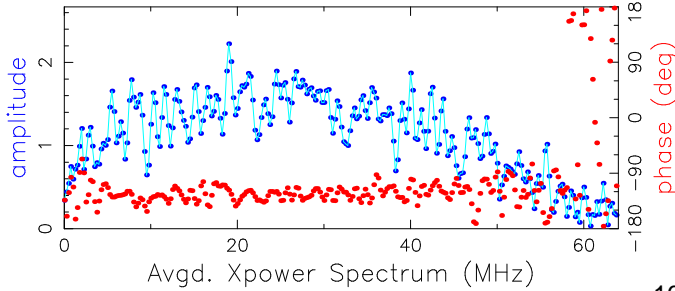
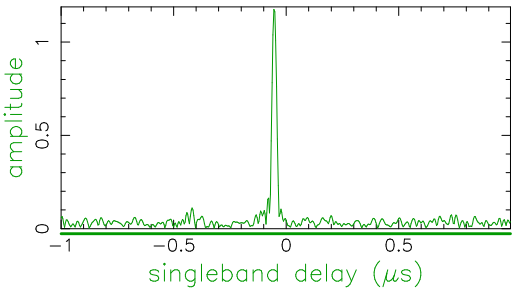
EFLSBERG - KVNUS, fgroup Q, pol LL

multiband delay ( $\mu$ s)

Fringe quality 5

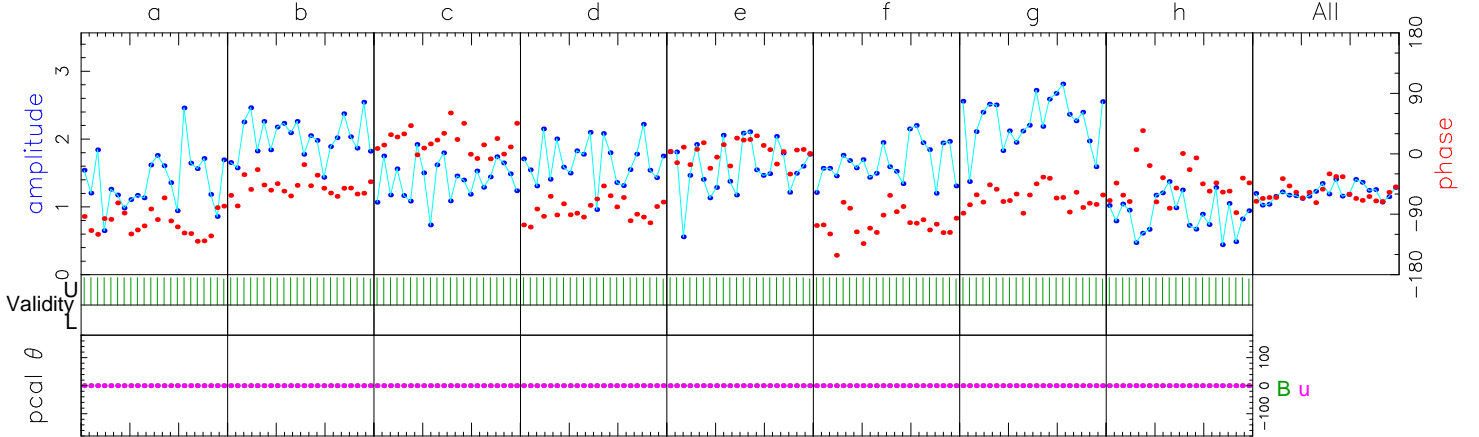


SNR 43.6  
 Int time 179.805  
 Amp 1.189  
 Phase -147.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.053082  
 MBD 0.003414  
 Fringe rate (Hz)  
 -0.024883  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145506  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-103.6	-49.5	17.8	-83.5	3.4	-103.8	-64.2	-45.2	Phase	-57.3
	1.3	2.0	1.3	1.6	1.5	1.6	2.2	0.8	Ampl.	1.5
	240.2	243.4	245.0	244.6	245.0	244.4	242.8	237.9	Sbd box	243.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	4.08008712314E+02	Apriori delay (usec)	4.08067798084E+02	Resid mbdelay (usec)	3.41423E-03	+/-	2.5E-05
Sband delay (usec)	4.08014716084E+02	Apriori clock (usec)	-3.6673389E+01	Resid sbdelay (usec)	-5.30820E-02	+/-	2.0E-04
Phase delay (usec)	4.08067794395E+02	Apriori clockrate (us/s)	-2.6931994E-07	Resid phdelay (usec)	-3.68898E-06	+/-	1.7E-07
Delay rate (us/s)	1.51224414153E+00	Apriori rate (us/s)	1.51224471833E+00	Resid rate (us/s)	-5.76803E-07	+/-	1.6E-09
Total phase (deg)	-215.9	Apriori accel (us/s/s)	1.13965314198E-05	Resid phase (deg)	-147.3	+/-	2.6

ph/seg (deg)	13.0	Theor.	6.2	Amplitude	1.189 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	8.8	Search (1024X32)	1.167	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	49.3	Inc. seg. avg.	1.200	Inc. frq. avg.	1.533	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	44.3	Inc. frq. avg.	1.533			Data rate(MBps): 128 MBps 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
							ion window (TEC) 0.00 0.00

B: az 78.3 el 45.3 pa -54.2 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -5635.229 1062.982 simultaneous interpolator

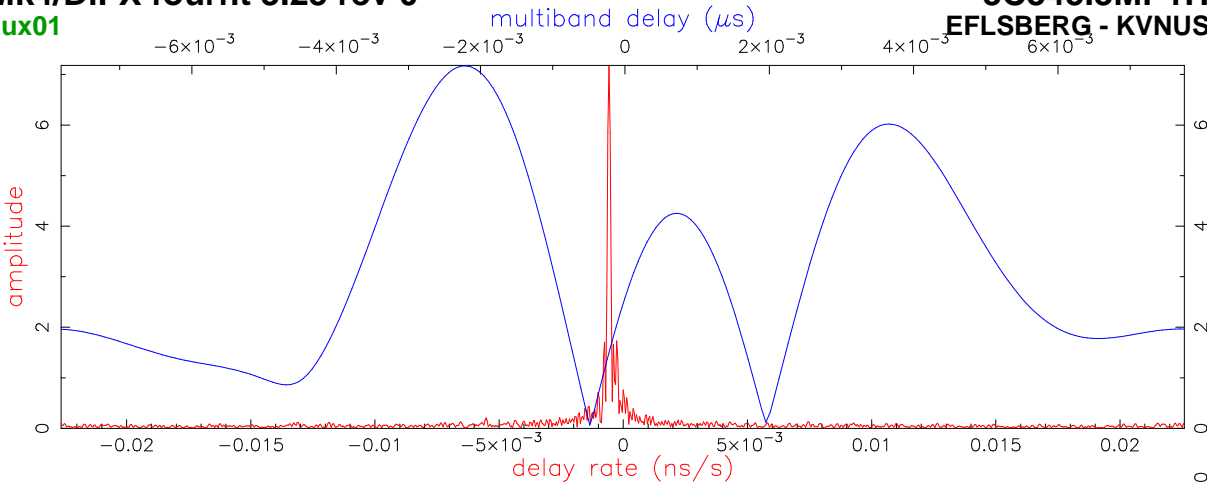
Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.14.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

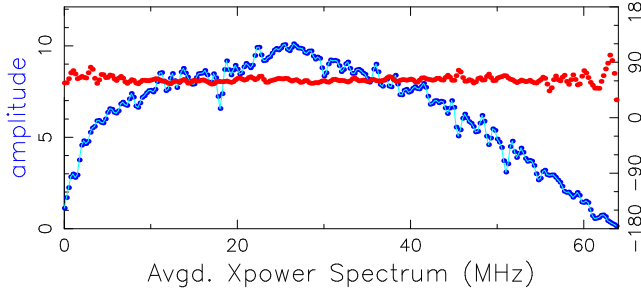
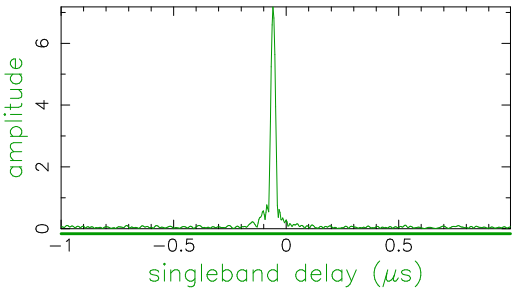
3C345.3MP1HX, No0399, Bu

EFLSBERG - KVNUS, fgroup Q, pol RR



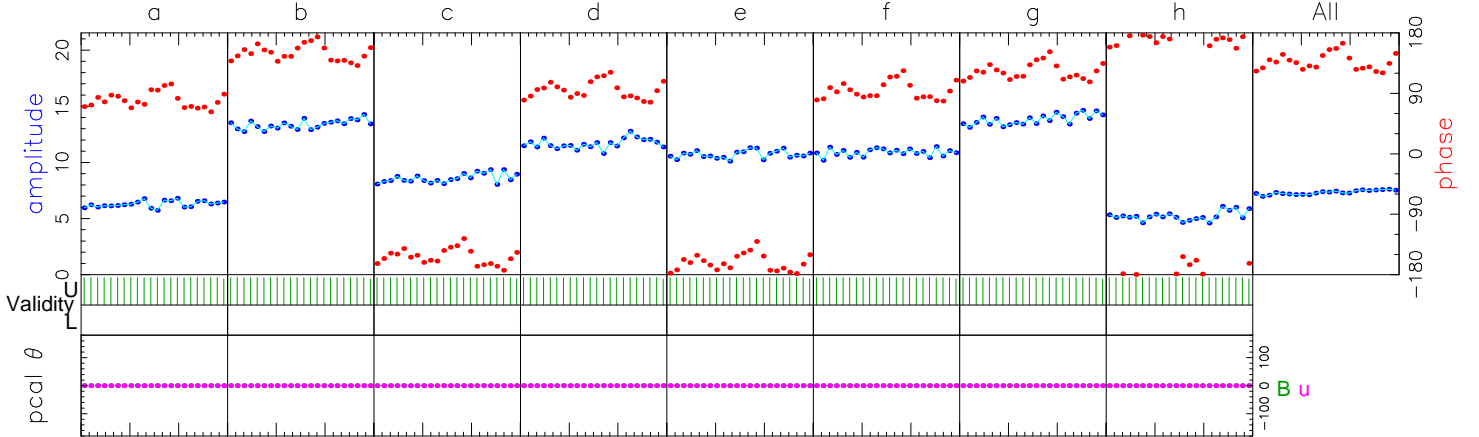
Fringe quality 4

SNR 263.2  
 Int time 179.805  
 Amp 7.180  
 Phase -313.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.058119  
 MBD -0.002216  
 Fringe rate (Hz)  
 -0.024800  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145508  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
u	0	24000	0	0	32000	0	0	40000		
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD)	4.08003082095E+02	Apriori delay (usec)	4.08067798084E+02	Resid mbdelay (usec)	-2.21599E-03	+/-	4.1E-06
Sband delay (usec)	4.08009679084E+02	Apriori clock (usec)	-3.6673389E+01	Resid sbdelay (usec)	-5.81190E-02	+/-	3.3E-05
Phase delay (usec)	4.08067806884E+02	Apriori clockrate (us/s)	-2.6931994E-07	Resid phdelay (usec)	8.80084E-06	+/-	2.8E-08
Delay rate (us/s)	1.51224414346E+00	Apriori rate (us/s)	1.51224471833E+00	Resid rate (us/s)	-5.74865E-07	+/-	2.7E-10
Total phase (deg)	-22.0	Apriori accel (us/s/s)	1.13965314198E-05	Resid phase (deg)	-313.3	+/-	0.4

ph/seg (deg)	12.0	Theor.	Amplitude	7.180 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	3.3	1.0	Search (1024X32)	6.997	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	53.9	0.6	Inc. seg. avg.	7.331	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	54.6	1.1	Inc. frq. avg.	9.854	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 78.3 el 45.3 pa -54.2      u: az 293.7 el 44.1 pa 75.7      u,v (fr/asec) -5635.229 1062.982      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu..3MP1HX      Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.31.3MP1HX

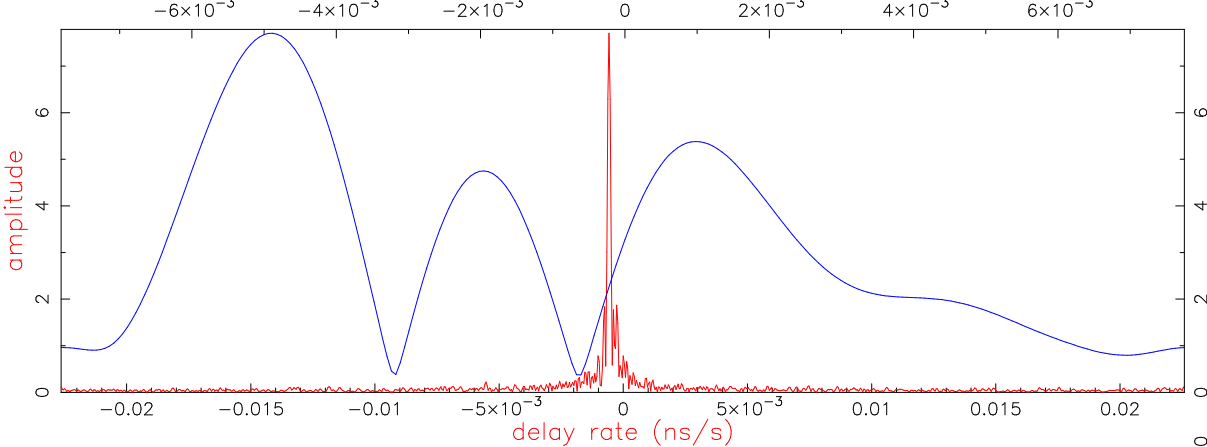
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, Bu

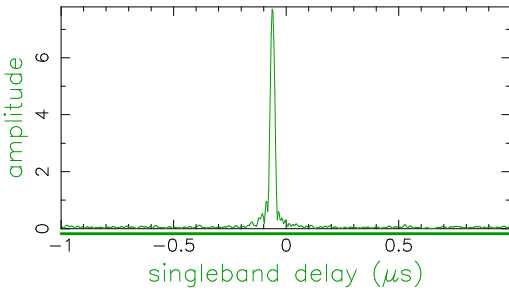
EFLSBERG - KVNUS, fgroup Q, pol LR

multiband delay ( $\mu$ s)

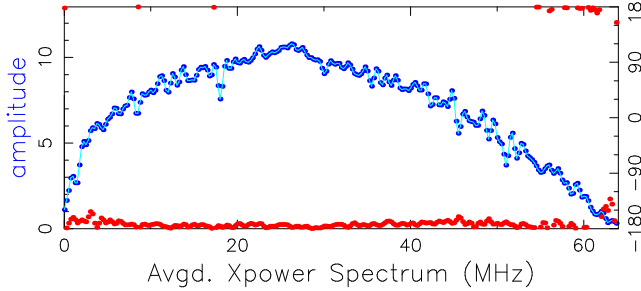


Fringe quality 4

SNR 285.5  
 Int time 179.805  
 Amp 7.788  
 Phase -191.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.060970  
 MBD -0.004900  
 Fringe rate (Hz)  
 -0.024806  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512

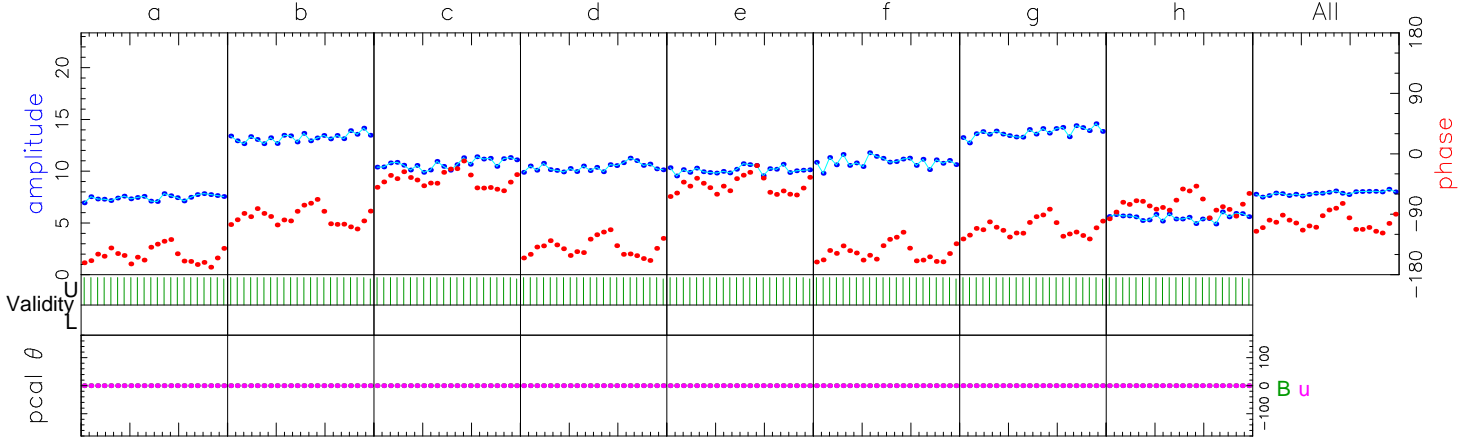


singleband delay ( $\mu$ s)



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145510  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
u	0	24000	0	0	32000	0	0	40000		
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) 4.08000398314E+02 Apriori delay (usec) 4.08067798084E+02 Resid mbdelay (usec) -4.89977E-03 +/- 3.8E-06  
 Sband delay (usec) 4.08006828334E+02 Apriori clock (usec) -3.6673389E+01 Resid sbdelay (usec) -6.09698E-02 +/- 3.0E-05  
 Phase delay (usec) 4.08067791537E+02 Apriori clockrate (us/s) -2.6931994E-07 Resid phdelay (usec) -6.54697E-06 +/- 2.6E-08  
 Delay rate (us/s) 1.51224414331E+00 Apriori rate (us/s) 1.51224471833E+00 Resid rate (us/s) -5.75021E-07 +/- 2.5E-10  
 Total phase (deg) -260.3 Apriori accel (us/s/s) 1.13965314198E-05 Resid phase (deg) -191.7 +/- 0.4

RMS Theor. Amplitude 7.788 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 12.0 0.9 Search (1024X32) 7.656 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 2.6 1.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 47.9 0.6 Inc. seg. avg. 7.879 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023  
 amp/frq (%) 43.2 1.0 Inc. frq. avg. 10.039 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 78.3 el 45.3 pa -54.2 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -5635.229 1062.982 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.45.3MP1HX

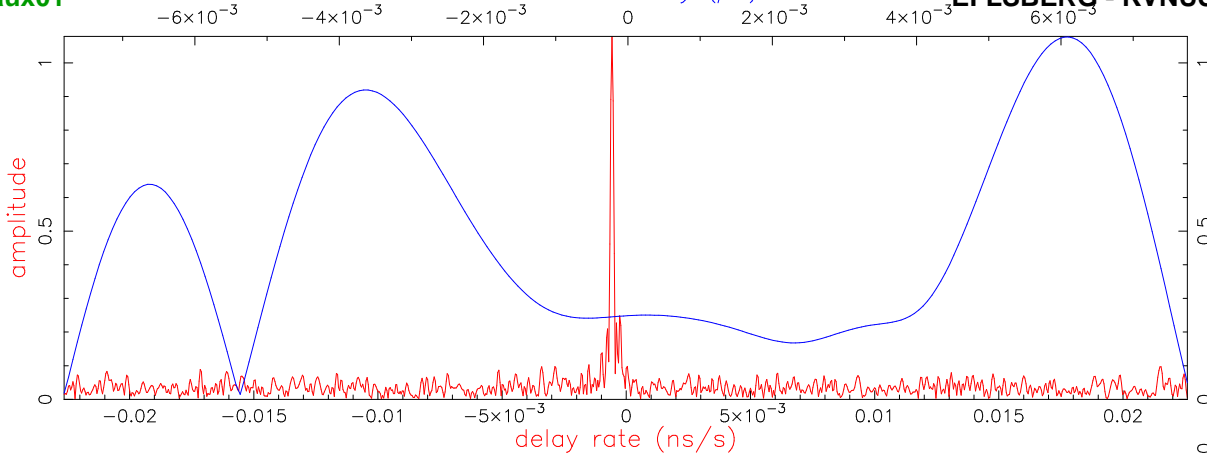
Mk4/DiFX fourfit 3.25 rev 0

aux01

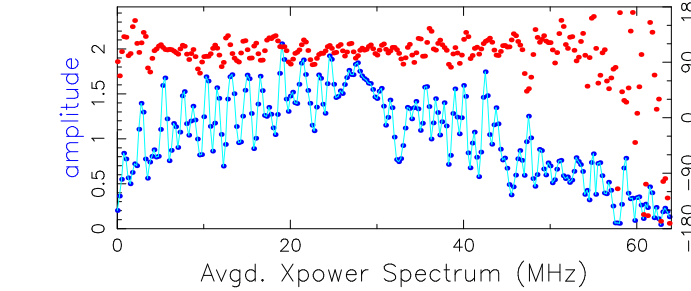
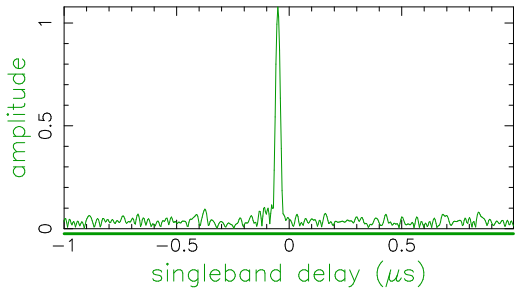
3C345.3MP1HX, No0399, Bu

EFLSBERG - KVNUS, fgroup Q, pol RL

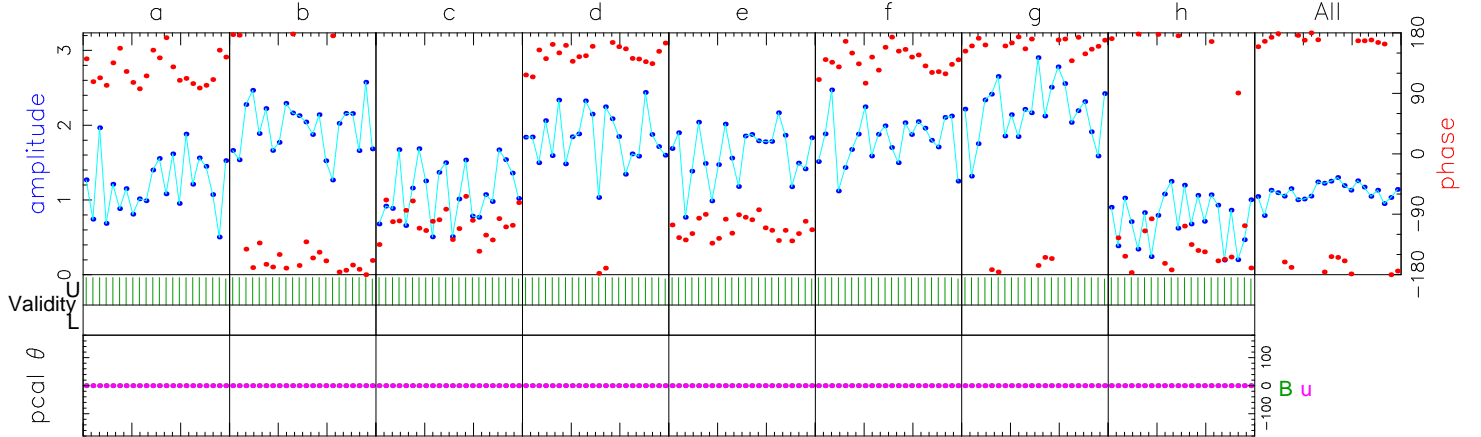
multiband delay ( $\mu$ s)



Fringe quality 5  
 Error code G  
 SNR 39.5  
 Int time 179.805  
 Amp 1.079  
 Phase -270.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.050247  
 MBD 0.006089  
 Fringe rate (Hz)  
 -0.024822  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512  
 Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145511  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	123.5	-164.0	-100.0	149.9	-109.5	137.5	170.8	-157.0	Phase	179.8
B	1.1	1.9	1.0	1.7	1.6	1.7	2.1	0.7	Ampl.	1.5
u	240.3	244.2	245.9	245.3	245.8	244.9	243.7	239.5	Sbd box	244.1
B	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	4.08011386595E+02	Apriori delay (usec)	4.08067798084E+02	Resid mbdelay (usec)	6.08851E-03	+/-	2.7E-05
Sband delay (usec)	4.08017550834E+02	Apriori clock (usec)	-3.6673389E+01	Resid sbdelay (usec)	-5.02472E-02	+/-	2.2E-04
Phase delay (usec)	4.08067809659E+02	Apriori clockrate (us/s)	-2.6931994E-07	Resid phdelay (usec)	1.15757E-05	+/-	1.9E-07
Delay rate (us/s)	1.51224414295E+00	Apriori rate (us/s)	1.51224471833E+00	Resid rate (us/s)	-5.75383E-07	+/-	1.8E-09
Total phase (deg)	-338.9	Apriori accel (us/s/s)	1.13965314198E-05	Resid phase (deg)	-270.2	+/-	2.9

ph/seg (deg)	13.7	Theor.	6.8	Amplitude	1.079 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	11.1	Search (1024X32)	1.051	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	55.0	Inc. seg. avg.	1.102	Inc. frq. avg.	1.481	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	56.7	Inc. frq. avg.	1.481			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 78.3 el 45.3 pa -54.2      u: az 293.7 el 44.1 pa 75.7      u,v (fr/asec) -5635.229 1062.982      simultaneous interpolator

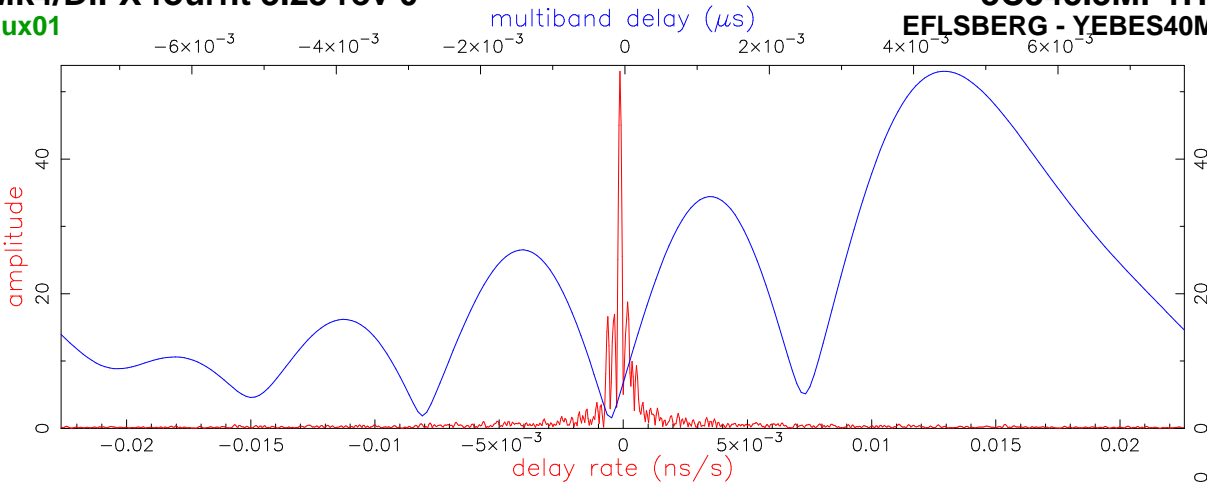
Control file: cf\_1234\_gmva      Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu...3MP1HX      Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.59.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

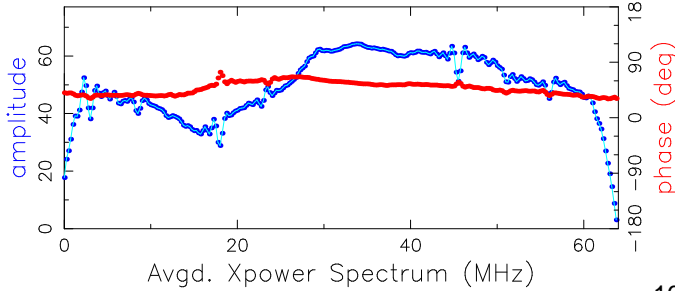
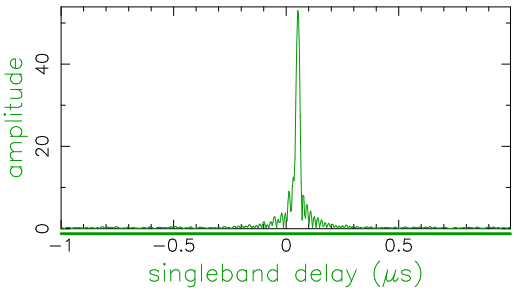
3C345.3MP1HX, No0399, BY

EFLSBERG - YEBES40M, fgroup Q, pol LL



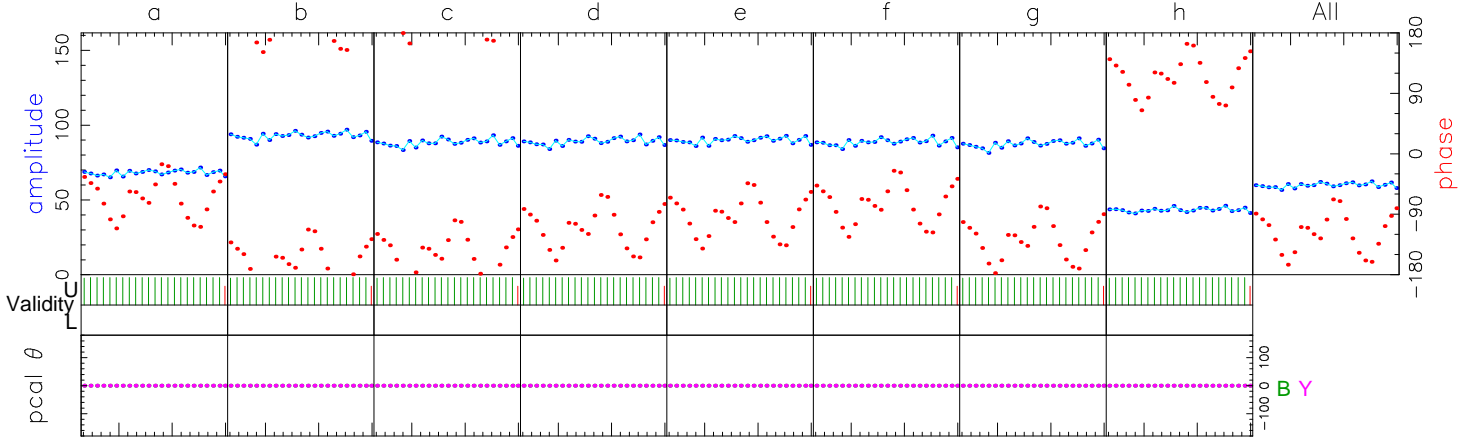
Fringe quality 3

SNR 1878.4  
 Int time 162.327  
 Amp 53.914  
 Phase 130.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.052452  
 MBD 0.004453  
 Fringe rate (Hz)  
 -0.005803  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220017.41  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145505  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-64.7	-161.8	-148.1	-110.9	-93.2	-74.9	-128.2	113.9	Phase	-117.3
	60.5	82.5	78.5	79.1	79.8	78.5	77.4	38.4	Ampl.	71.8
	267.6	269.7	270.7	270.4	270.6	270.2	269.1	264.6	Sbd box	270.4
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	2.82827057780E+03	Apriori delay (usec)	2.82821924995E+03	Resid mbdelay (usec)	4.45284E-03	+/-	5.8E-07
Sband delay (usec)	2.82827170170E+03	Apriori clock (usec)	7.5559441E+01	Resid sbdelay (usec)	5.24517E-02	+/-	4.6E-06
Phase delay (usec)	2.82821924240E+03	Apriori clockrate (us/s)	8.1915204E-07	Resid phdelay (usec)	-7.55354E-06	+/-	3.9E-09
Delay rate (us/s)	-1.90871878153E-01	Apriori rate (us/s)	-1.90871743635E-01	Resid rate (us/s)	-1.34518E-07	+/-	4.2E-11
Total phase (deg)	289.7	Apriori accel (us/s/s)	-5.81874571818E-06	Resid phase (deg)	130.2	+/-	0.1

ph/seg (deg)	28.0	Theor.	Amplitude	53.914 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	11.4	0.1	Search (1024X32)	52.961	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	64.3	0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.023	0.023
amp/frq (%)	42.3	0.2	Inc. seg. avg.	59.891	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	71.823	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 78.3 el 45.3 pa -54.2 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 710.810 221.459 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BY..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BY.Q.10.3MP1HX

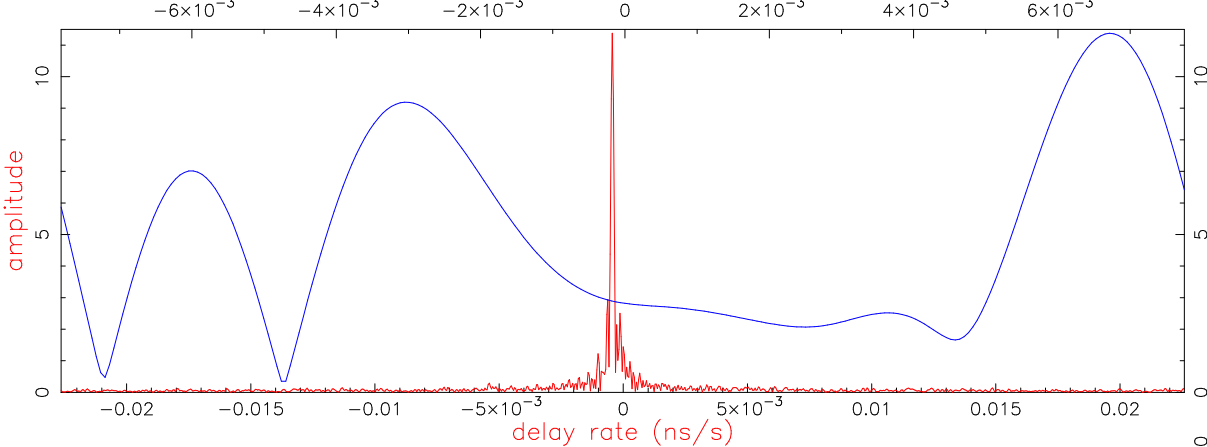
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, By

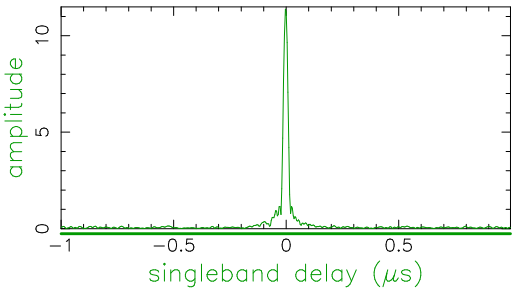
EFLSBERG - KVNYS, fgroup Q, pol RR

multiband delay ( $\mu$ s)

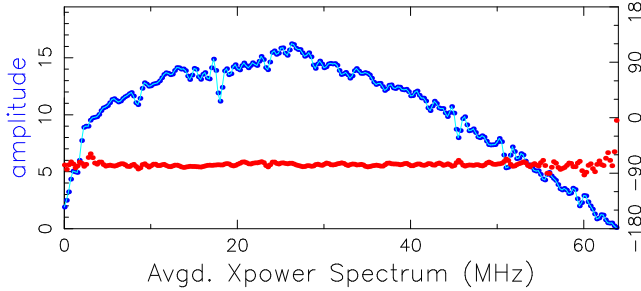


Fringe quality 5

SNR 421.5  
Int time 179.792  
Amp 11.497  
Phase -25.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.002343  
MBD 0.006732  
Fringe rate (Hz)  
-0.019363  
Ion TEC 0.000  
Ref freq (MHz)  
43140.0000  
AP (sec) 0.512



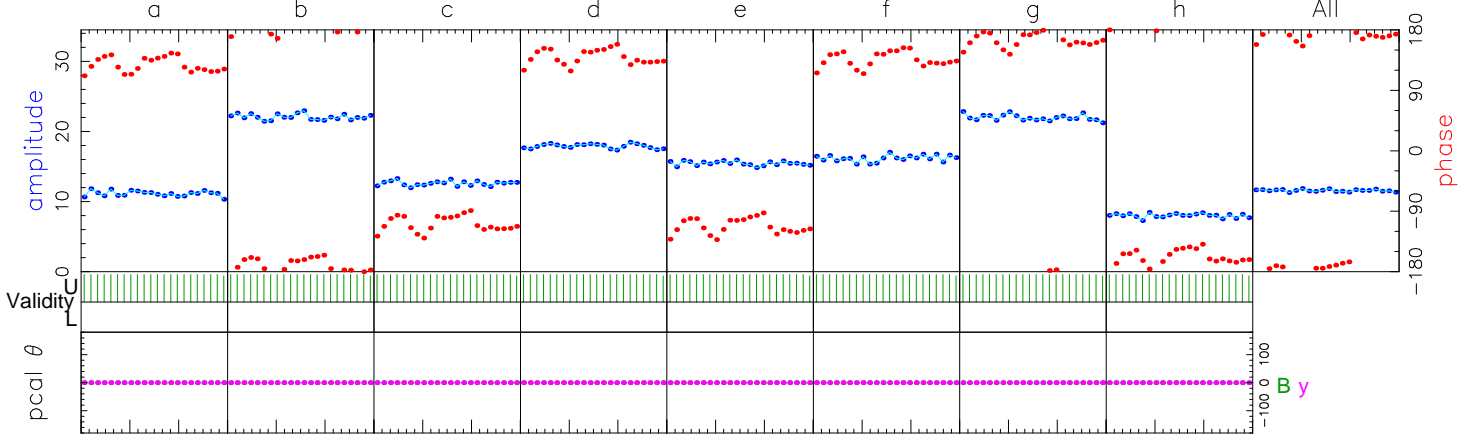
singleband delay ( $\mu$ s)



Avgd. Xpower Spectrum (MHz)

Exp. c241d  
Exper # 1234  
Yr:day 2024:112  
Start 220000.00  
Stop 220300.23  
FRT 220130.00  
Corr/FF/build  
2024:316:155049  
2025:042:145506  
2024:113:095956  
RA & Dec (J2000)  
16h42m58.809971s  
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	127.9	-172.2	-108.7	139.3	-112.4	135.7	165.2	-159.0	Phase	176.7
B	11.0	21.7	12.4	17.6	15.2	15.9	21.6	7.9	Ampl.	15.4
y	252.4	256.3	257.7	257.5	257.9	257.4	255.9	251.3	Sbd box	256.4
B	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:y	0	24000	0	0	32000	0	0	40000	PC freqs	
B:y	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	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	-2.48808044736E+02	Apriori delay (usec)	-2.48799152058E+02	Resid mbdelay (usec)	6.73232E-03	+/-	2.6E-06
Sband delay (usec)	-2.48801495308E+02	Apriori clock (usec)	-4.1756573E+01	Resid sbdelay (usec)	-2.34325E-03	+/-	2.0E-05
Phase delay (usec)	-2.48799140680E+02	Apriori clockrate (us/s)	-2.4872010E-07	Resid phdelay (usec)	1.13772E-05	+/-	1.8E-08
Delay rate (us/s)	1.47059349830E+00	Apriori rate (us/s)	1.47059394713E+00	Resid rate (us/s)	-4.48830E-07	+/-	1.7E-10
Total phase (deg)	-176.9	Apriori accel (us/s/s)	1.28204568628E-05	Resid phase (deg)	-25.8	+/-	0.3

ph/seg (deg) 11.0 0.6  
amp/seg (%) 1.5 1.1  
ph/frq (deg) 53.1 0.4  
amp/frq (%) 52.3 0.7

RMS Theor. Amplitude 11.497 +/- 0.027  
Search (1024X32) 11.238  
Interp. 0.000  
Inc. seg. avg. 11.587  
Inc. frq. avg. 15.382

B: az 78.3 el 45.3 pa -54.2  
Control file: cf\_1234\_gmva

y: az 291.2 el 46.6 pa 74.1  
Input file: /Exps/c241d/v1/7mm/1234/No0399/By..3MP1HX

u,v (fr/asec) -5479.505 1011.965  
Output file: /Exps/c241d/v1/7mm/1234/No0399/By.Q.17.3MP1HX

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: 256 t\_cohere infinite

PC period (AP's) 5, 5  
sb window (us) -1.000 1.000  
mb window (us) -0.008 0.008  
dr window (ns/s) -0.023 0.023  
ion window (TEC) 0.00 0.00

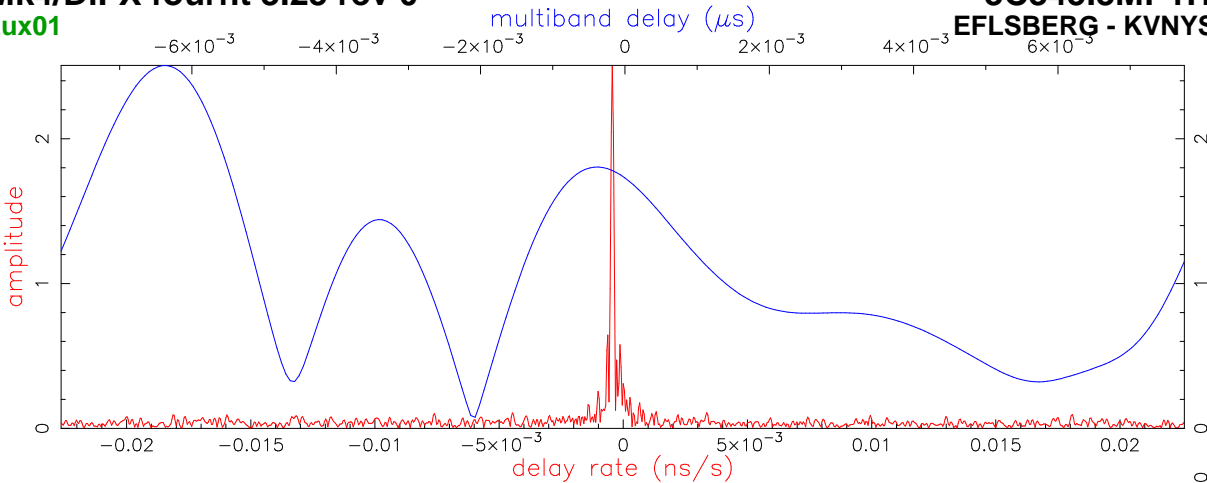
simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

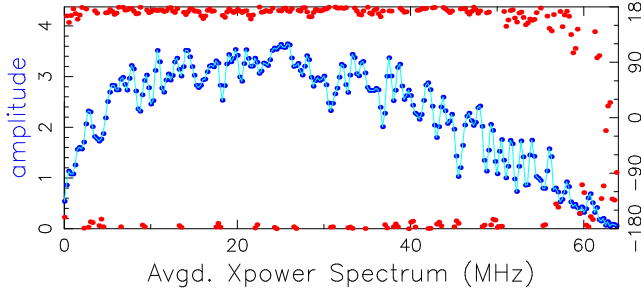
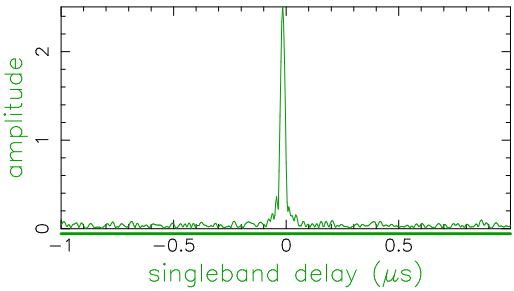
aux01

3C345.3MP1HX, No0399, By

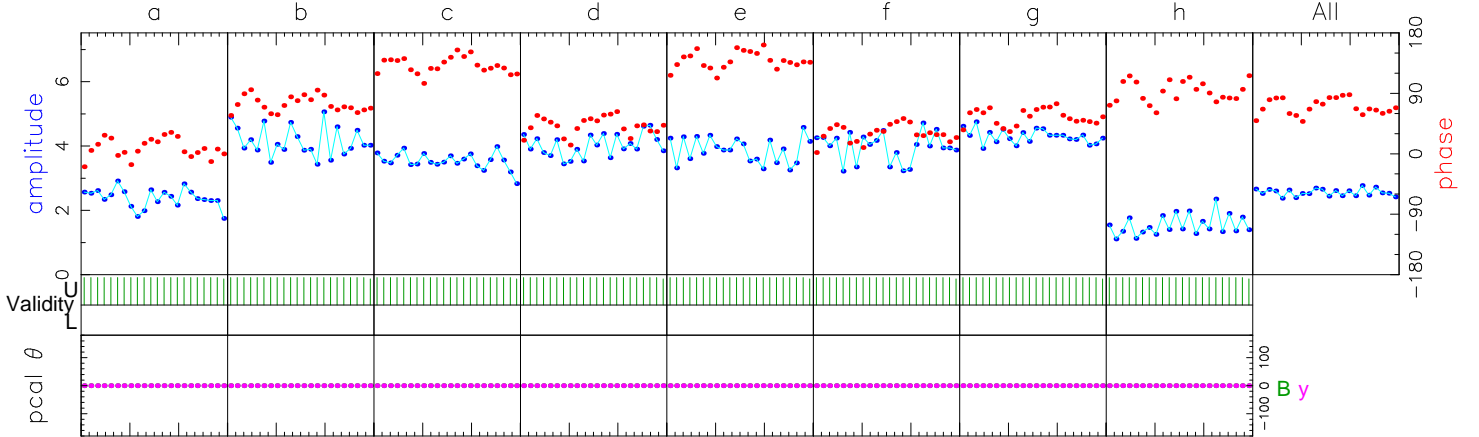
EFLSBERG - KVNYS, fgroup Q, pol LL



Fringe quality 4  
 Error code G  
 SNR 91.9  
 Int time 179.792  
 Amp 2.507  
 Phase -132.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.015515  
 MBD -0.006372  
 Fringe rate (Hz)  
 -0.019376  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512  
 Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145504  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
y	0	24000	0	0	32000	0	0	40000		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	-2.48821149330E+02	Apriori delay (usec)	-2.48799152058E+02	Resid mbdelay (usec)	-6.37227E-03	+/-	1.2E-05
Sband delay (usec)	-2.48814666808E+02	Apriori clock (usec)	-4.1756573E+01	Resid sbdelay (usec)	-1.55148E-02	+/-	9.4E-05
Phase delay (usec)	-2.48799147562E+02	Apriori clockrate (us/s)	-2.4872010E-07	Resid phdelay (usec)	4.49587E-06	+/-	8.0E-08
Delay rate (us/s)	1.47059349799E+00	Apriori rate (us/s)	1.47059394713E+00	Resid rate (us/s)	-4.49136E-07	+/-	7.7E-10
Total phase (deg)	-283.8	Apriori accel (us/s/s)	1.28204568628E-05	Resid phase (deg)	-132.7	+/-	1.2

ph/seg (deg)	11.8	RMS	2.9	Theor.	2.507 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	4.8	Search (1024X32)	2.482	Amplitude	2.507 +/- 0.027	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	50.8	Interp.	0.000	Search	2.482	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	50.6	Inc. seg. avg.	2.557	Inc. seg. avg.	2.557	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
		Inc. frq. avg.	3.393	Inc. frq. avg.	3.393	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 78.3 el 45.3 pa -54.2 y: az 291.2 el 46.6 pa 74.1 u, v (fr/asec) -5479.505 1011.965 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/By..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/By.Q.2.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

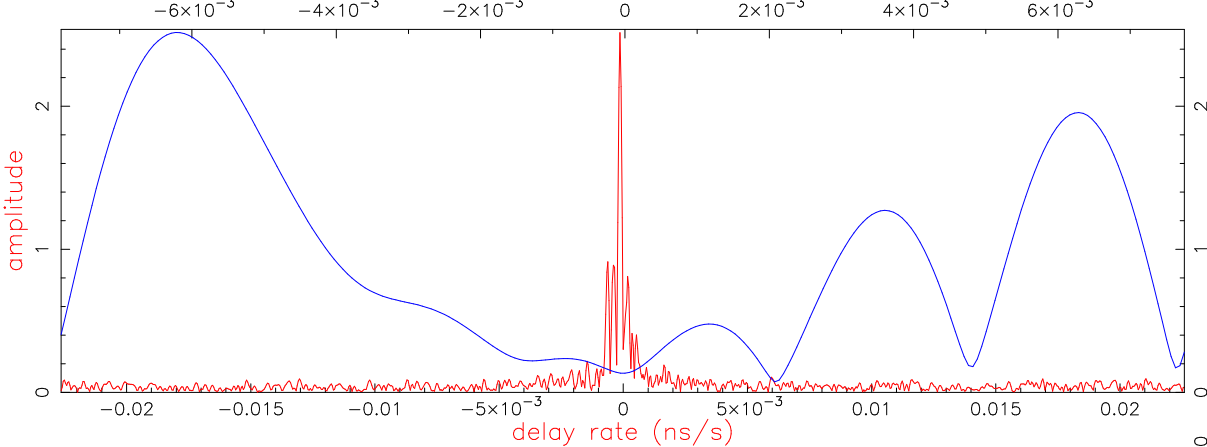
aux01

3C345.3MP1HX, No0399, BY

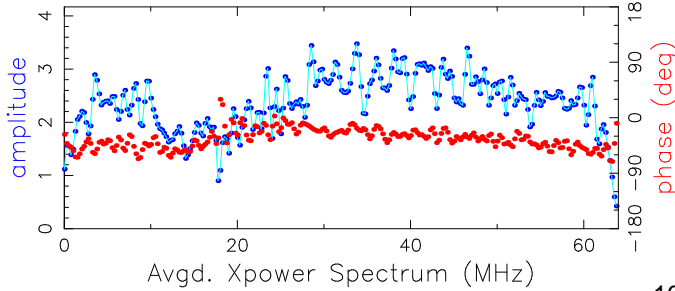
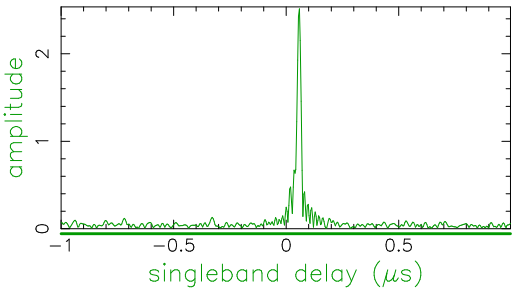
EFLSBERG - YEBES40M, fgroup Q, pol RR

multiband delay ( $\mu$ s)

Fringe quality 2

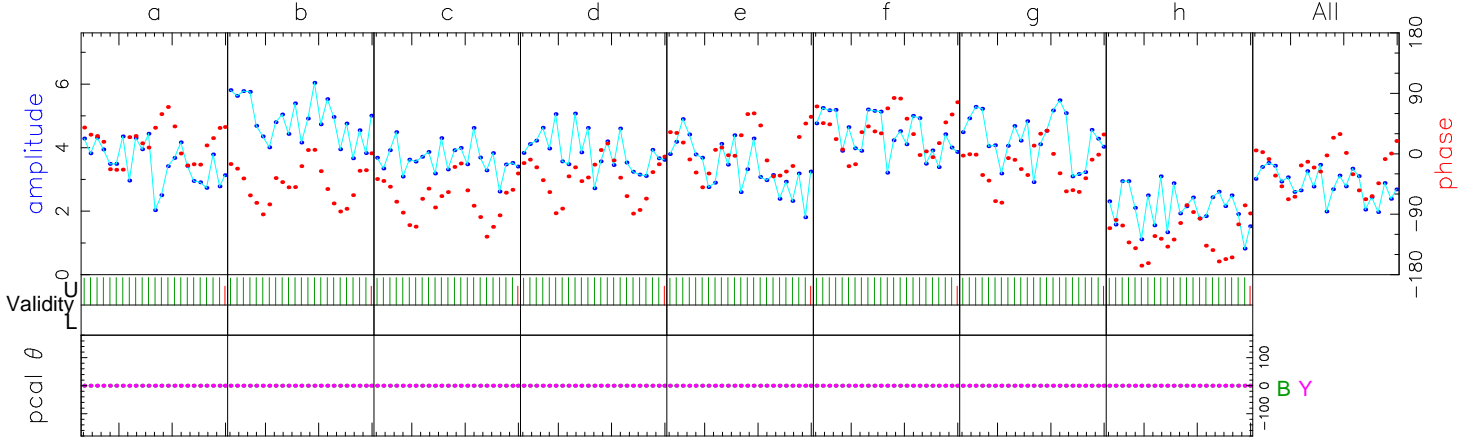


SNR 88.4  
 Int time 162.327  
 Amp 2.538  
 Phase 69.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.057393  
 MBD -0.006227  
 Fringe rate (Hz)  
 -0.005855  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220017.41  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145507  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	15.8	-42.2	-66.8	-35.5	7.3	34.4	-17.8	-124.8	Phase	-20.7
	3.2	4.3	3.2	3.4	2.9	3.9	3.8	1.9	Ampl.	3.3
	268.7	270.6	271.8	271.8	272.1	271.6	270.0	266.0	Sbd box	271.7
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

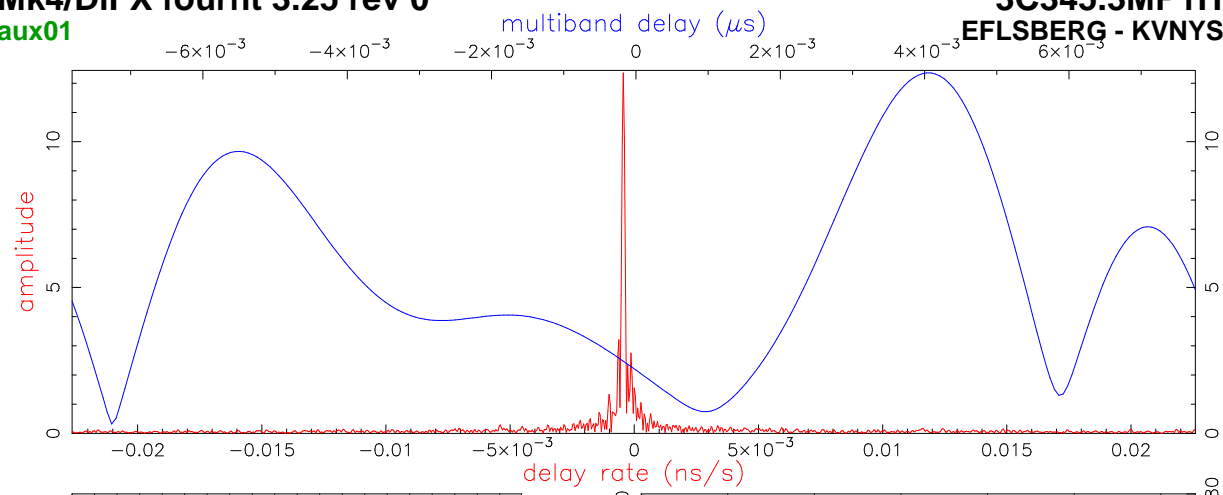
Group delay (usec) (SBD)	2.82827552305E+03	Apriori delay (usec)	2.82821924995E+03	Resid mbdelay (usec)	-6.22691E-03	+/-	1.2E-05
Sband delay (usec)	2.82827664295E+03	Apriori clock (usec)	7.5559441E+01	Resid sbdelay (usec)	5.73930E-02	+/-	9.7E-05
Phase delay (usec)	2.82821924862E+03	Apriori clockrate (us/s)	8.1915204E-07	Resid phdelay (usec)	-1.33032E-06	+/-	8.3E-08
Delay rate (us/s)	-1.90871879356E-01	Apriori rate (us/s)	-1.90871743635E-01	Resid rate (us/s)	-1.35720E-07	+/-	8.9E-10
Total phase (deg)	228.8	Apriori accel (us/s/s)	-5.81874571818E-06	Resid phase (deg)	69.3	+/-	1.3

ph/seg (deg)	29.1	3.1	Amplitude	2.538 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	21.9	5.4	Search (1024X32)	2.492	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	56.0	1.8	Inc. seg. avg.	2.849	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.6	3.2	Inc. frq. avg.	3.312	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
					Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

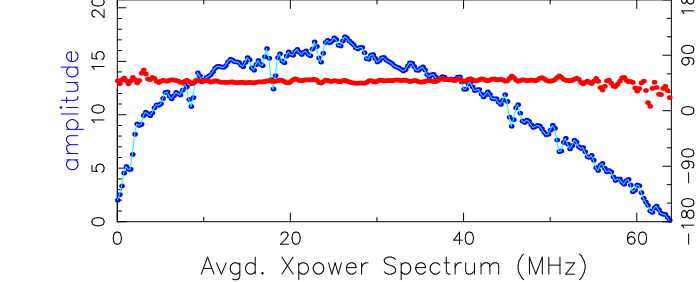
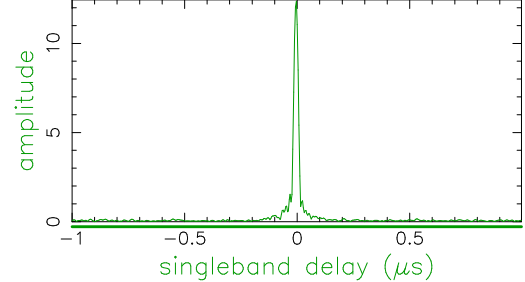
B: az 78.3 el 45.3 pa -54.2 Y: az 64.9 el 35.5 pa -63.8 u, v (fr/asec) 710.810 221.459 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BY..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BY.Q.27.3MP1HX

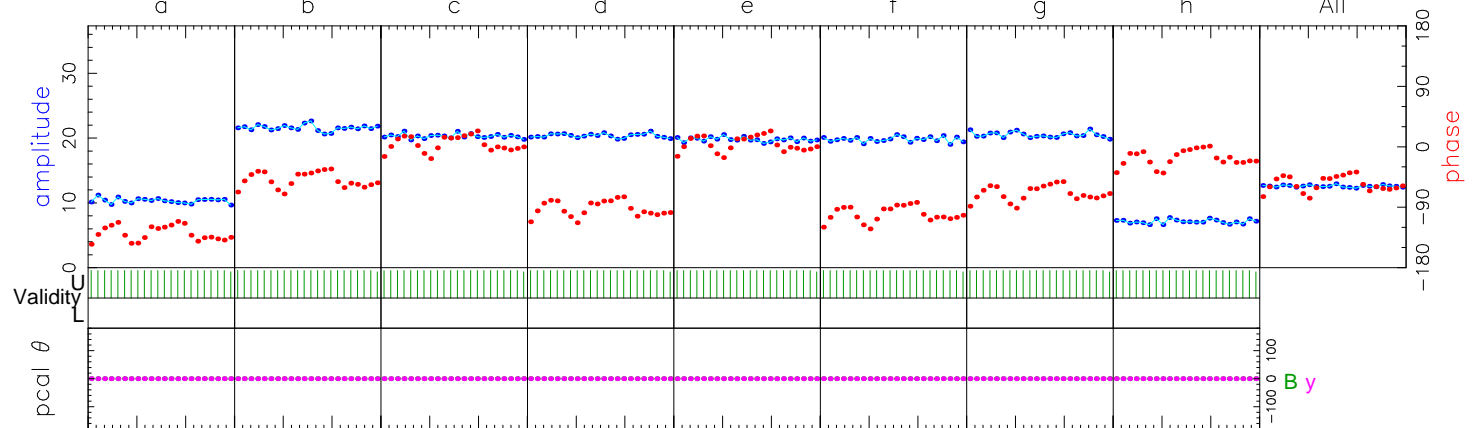




Fringe quality 5  
Error code G  
SNR 456.2  
Int time 179.792  
Amp 12.443  
Phase -257.9  
PFD 0.0e+00  
Delays (us)  
SBD -0.005121  
MBD 0.004054  
Fringe rate (Hz)  
-0.019367  
Ion TEC 0.000  
Ref freq (MHz)  
43140.0000  
AP (sec) 0.512  
Exp. c241d  
Exper # 1234  
Yr:day 2024:112  
Start 220000.00  
Stop 220300.23  
FRT 220130.00  
Corr/FF/build  
2024:316:155049  
2025:042:145508  
2024:113:095956  
RA & Dec (J2000)  
16h42m58.809971s  
+39°48'36.993958"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



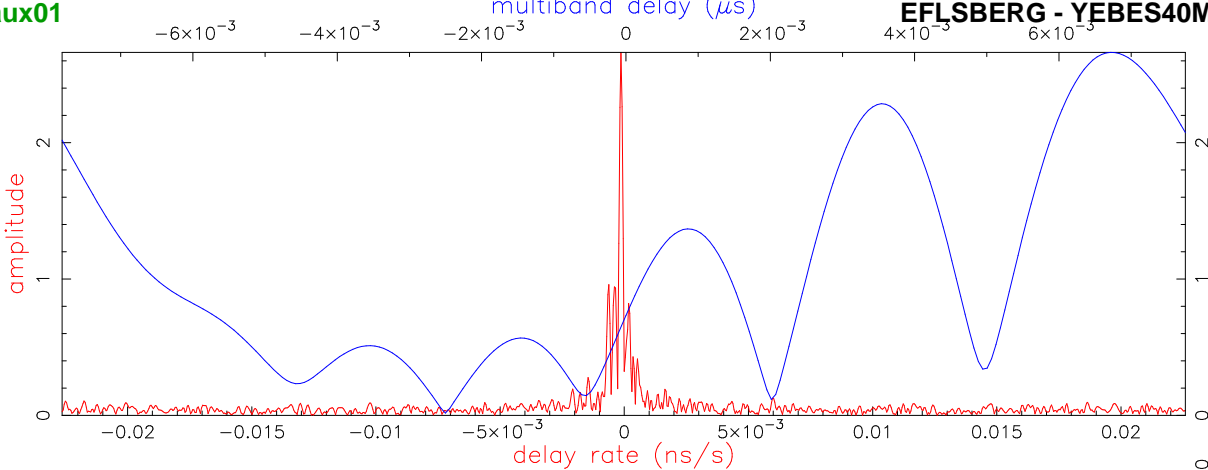
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All	
	-128.8	-49.6	4.1	-92.2	3.9	-100.2	-69.5	-17.2	Phase	-55.4	
	10.2	21.2	19.9	20.0	19.4	20.2	20.2	7.0	Ampl.	17.2	
	252.2	255.5	257.0	256.9	257.1	256.7	255.2	250.6	Sbd box	255.7	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
y	0	24000	0	0	32000	0	0	40000	PC freqs		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
y	1000	1000	1000	1000	1000	1000	1000	1000			
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids		
y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	-2.48810723111E+02		Apriori delay (usec)		-2.48799152058E+02		Resid mbdelay (usec)		4.05395E-03	+/- 2.4E-06	
Sband delay (usec)	-2.48804273308E+02		Apriori clock (usec)		-4.1756573E+01		Resid sbdelay (usec)		-5.12125E-03	+/- 1.9E-05	
Phase delay (usec)	-2.48799155625E+02		Apriori clockrate (us/s)		-2.4872010E-07		Resid phdelay (usec)		-3.56740E-06	+/- 1.6E-08	
Delay rate (us/s)	1.47059349819E+00		Apriori rate (us/s)		1.47059394713E+00		Resid rate (us/s)		-4.48938E-07	+/- 1.6E-10	
Total phase (deg)			Apriori accel (us/s/s)		1.28204568628E-05		Resid phase (deg)		-257.9	+/- 0.3	
	RMS	Theor.	Amplitude	12.443 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	11.0	0.6	Search (1024X32)	12.115		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	1.8	1.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	54.0	0.4	Inc. seg. avg.	12.594		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.023 0.023	
amp/frq (%)	55.6	0.6	Inc. frq. avg.	17.169		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 78.3 el 45.3 pa -54.2	y: az 291.2 el 46.6 pa 74.1		u, v (fr/asec)		-5479.505 1011.965				simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0399/By...3MP1HX		Output file: /Exps/c241d/v1/7mm/1234/No0399/By.Q.32.3MP1HX								

Mk4/DiFX fourfit 3.25 rev 0

aux01

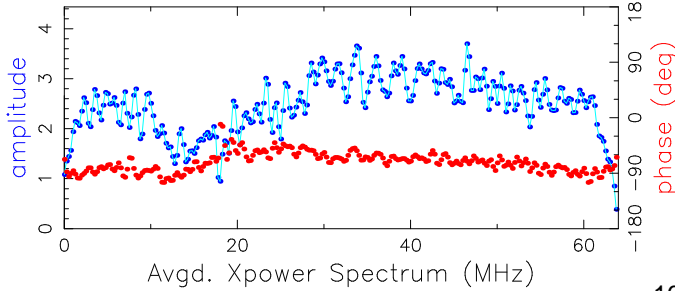
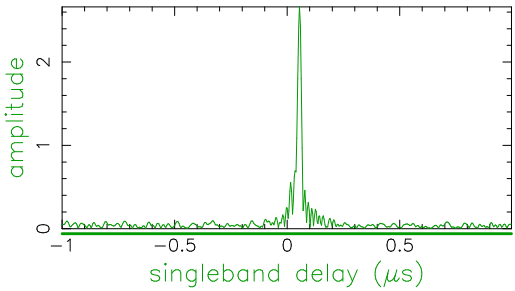
3C345.3MP1HX, No0399, BY

EFLSBERG - YEBES40M, fgroup Q, pol LR



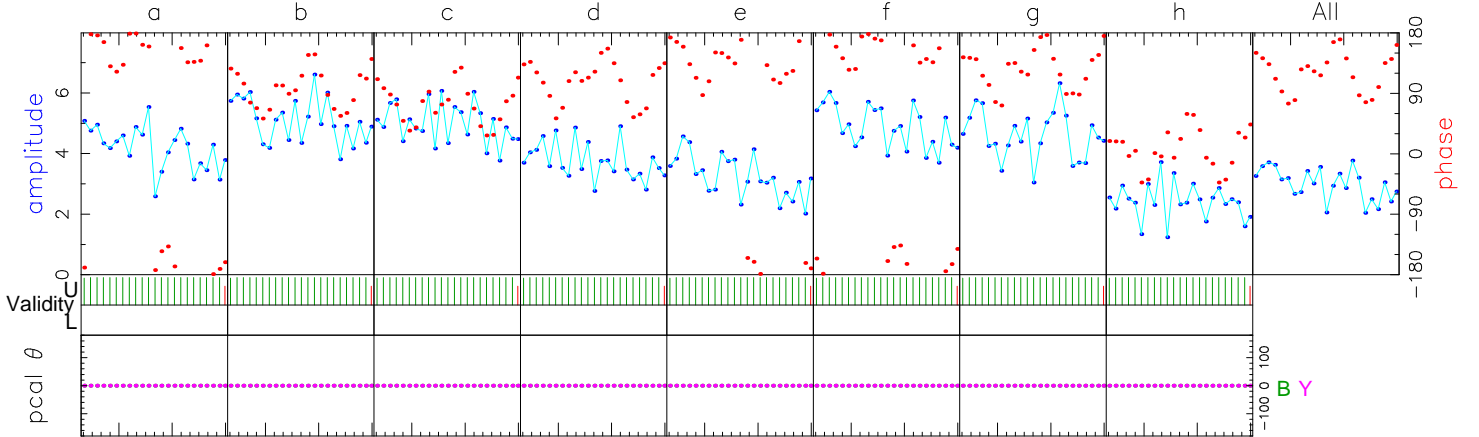
Fringe quality 2

SNR 92.8  
 Int time 162.327  
 Amp 2.662  
 Phase 9.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.054783  
 MBD 0.006731  
 Fringe rate (Hz)  
 -0.005904  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220017.41  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145509  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	168.0	98.8	74.8	108.1	148.5	172.5	127.0	5.6	Phase	121.9
B	3.8	4.5	4.4	3.3	2.8	4.3	4.1	2.1	Ampl.	3.7
Y	268.4	269.7	271.0	271.2	271.4	270.8	269.5	265.0	Sbd box	271.0
B	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	2.82827285636E+03	Apriori delay (usec)	2.82821924995E+03	Resid mbdelay (usec)	6.73141E-03	+/-	1.2E-05
Sband delay (usec)	2.82827403320E+03	Apriori clock (usec)	7.5559441E+01	Resid sbdelay (usec)	5.47833E-02	+/-	9.3E-05
Phase delay (usec)	2.82821925780E+03	Apriori clockrate (us/s)	8.1915204E-07	Resid phdelay (usec)	7.84671E-06	+/-	8.0E-08
Delay rate (us/s)	-1.90871880485E-01	Apriori rate (us/s)	-1.90871743635E-01	Resid rate (us/s)	-1.36849E-07	+/-	8.5E-10
Total phase (deg)	168.8	Apriori accel (us/s/s)	-5.81874571818E-06	Resid phase (deg)	9.4	+/-	1.2

ph/seg (deg)	28.5	RMS	28.5	Theor.	3.0	Amplitude	2.662 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	23.1		5.2	Search (1024X32)	2.648	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)	60.4		1.7	Inc. seg. avg.	3.000	Inc. seg. avg.	3.000	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags:	256	t_cohere infinite	dr window (ns/s)	-0.023	0.023
amp/frq (%)	48.1		3.0	Inc. frq. avg.	3.656	Inc. frq. avg.	3.656	Data rate (Mb/s):	2048			ion window (TEC)	0.00	0.00	

B: az 78.3 el 45.3 pa -54.2 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 710.810 221.459 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BY..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BY.Q.41.3MP1HX

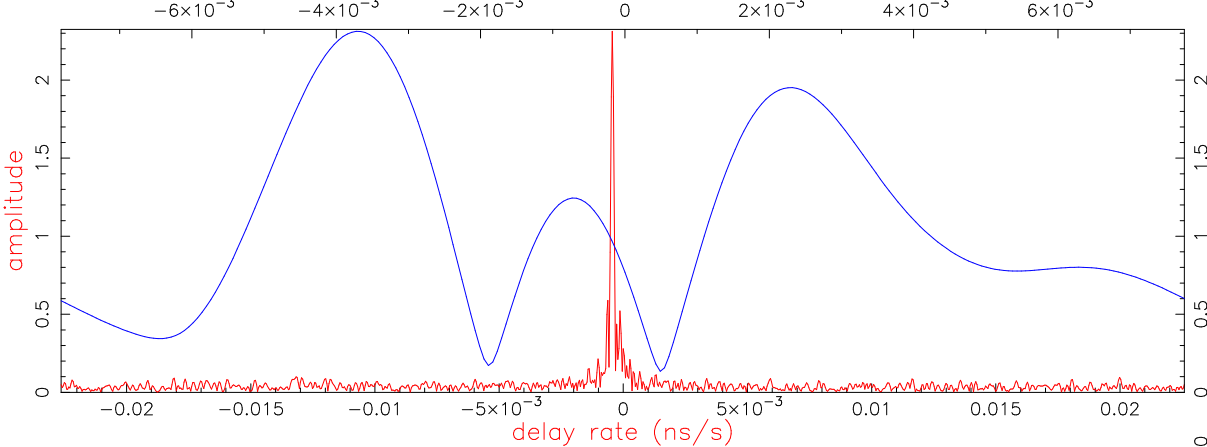
Mk4/DiFX fourfit 3.25 rev 0

aux01

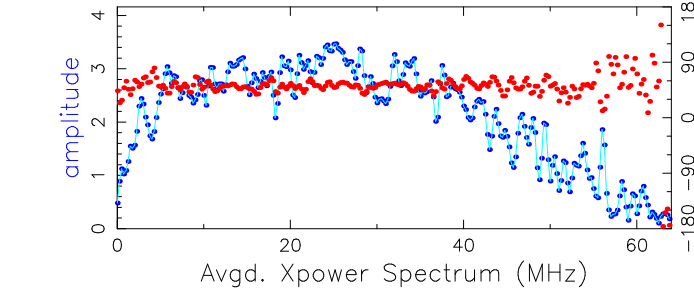
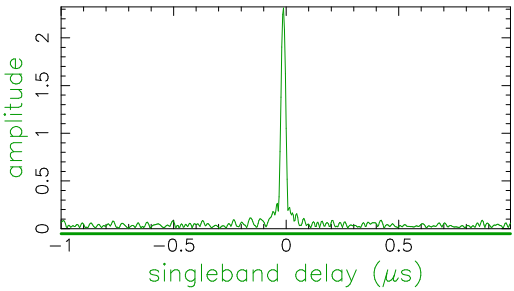
3C345.3MP1HX, No0399, By

EFLSBERG - KVNYS, fgroup Q, pol RL

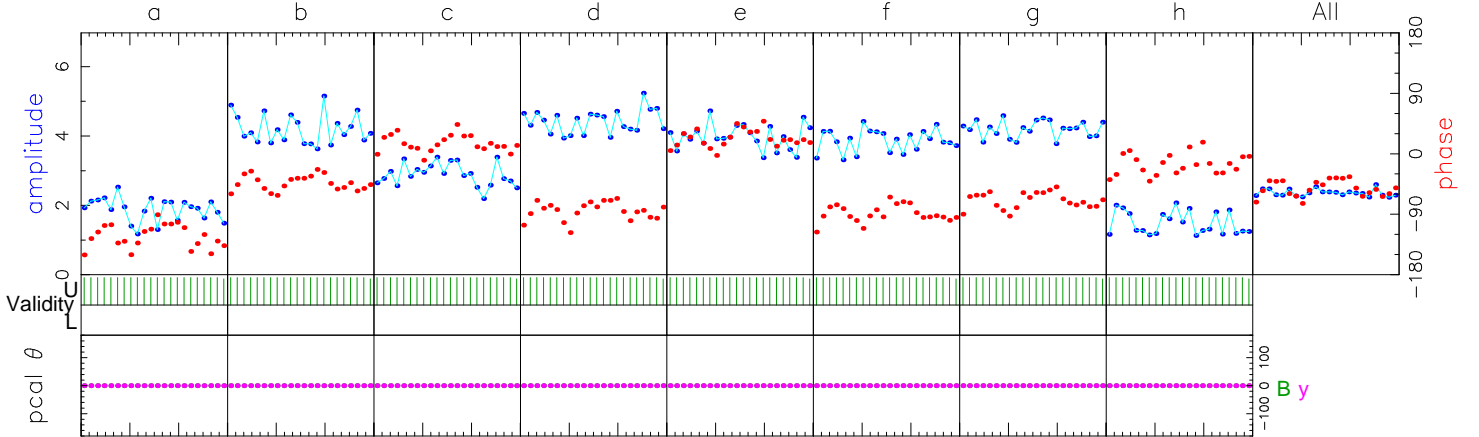
multiband delay ( $\mu$ s)



Fringe quality 4  
 Error code G  
 SNR 85.2  
 Int time 179.792  
 Amp 2.325  
 Phase -253.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.012808  
 MBD -0.003705  
 Fringe rate (Hz)  
 -0.019379  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512  
 Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220000.00  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145510  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-122.8	-43.8	15.8	-84.8	22.6	-89.1	-69.1	-14.9	Phase	-51.1
	1.8	4.1	2.8	4.3	3.9	3.8	4.1	1.4	Ampl.	3.3
	249.8	253.7	255.0	254.9	255.3	254.6	253.2	248.7	Sbd box	253.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	0	24000	0	0	32000	0	0	40000	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD) -2.48818481767E+02 Apriori delay (usec) -2.48799152058E+02 Resid mbdelay (usec) -3.70471E-03 +/- 1.3E-05  
 Sband delay (usec) -2.48811960308E+02 Apriori clock (usec) -4.1756573E+01 Resid sbdelay (usec) -1.28083E-02 +/- 1.0E-04  
 Phase delay (usec) -2.48799155349E+02 Apriori clockrate (us/s) -2.4872010E-07 Resid phdelay (usec) -3.29139E-06 +/- 8.7E-08  
 Delay rate (us/s) 1.47059349792E+00 Apriori rate (us/s) 1.47059394713E+00 Resid rate (us/s) -4.49207E-07 +/- 8.3E-10  
 Total phase (deg) -44.7 Apriori accel (us/s/s) 1.28204568628E-05 Resid phase (deg) -253.6 +/- 1.3

RMS Theor. Amplitude 2.325 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 11.7 3.2 Search (1024X32) 2.244 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 4.5 5.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 56.7 1.9 Inc. seg. avg. 2.358 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023  
 amp/frq (%) 61.3 3.3 Inc. frq. avg. 3.286 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 78.3 el 45.3 pa -54.2 y: az 291.2 el 46.6 pa 74.1 u,v (fr/asec) -5479.505 1011.965 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/By..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/By.Q.47.3MP1HX

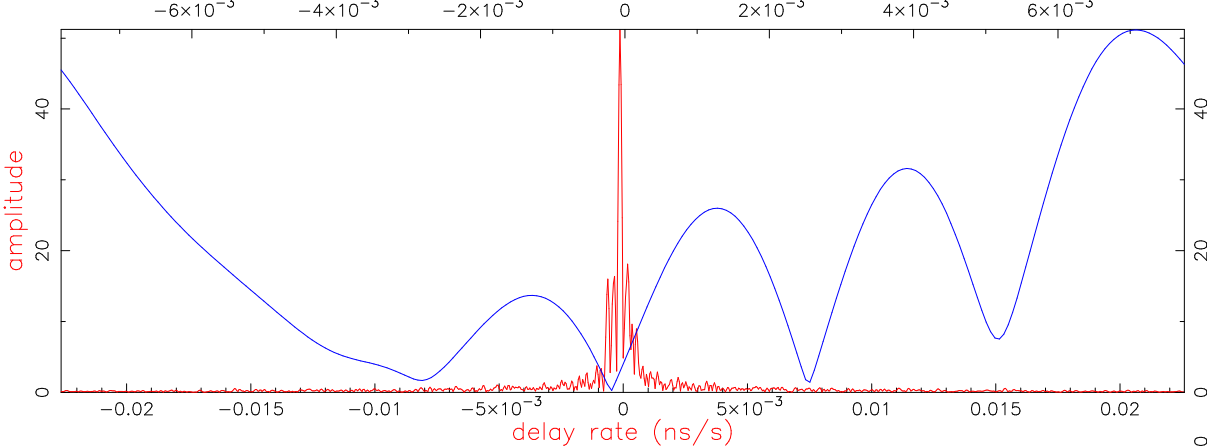
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, BY

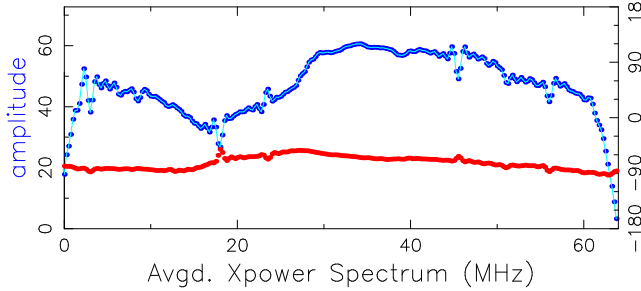
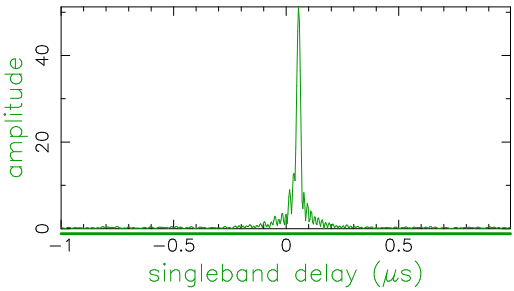
EFLSBERG - YEBES40M, fgroup Q, pol RL

multiband delay ( $\mu$ s)



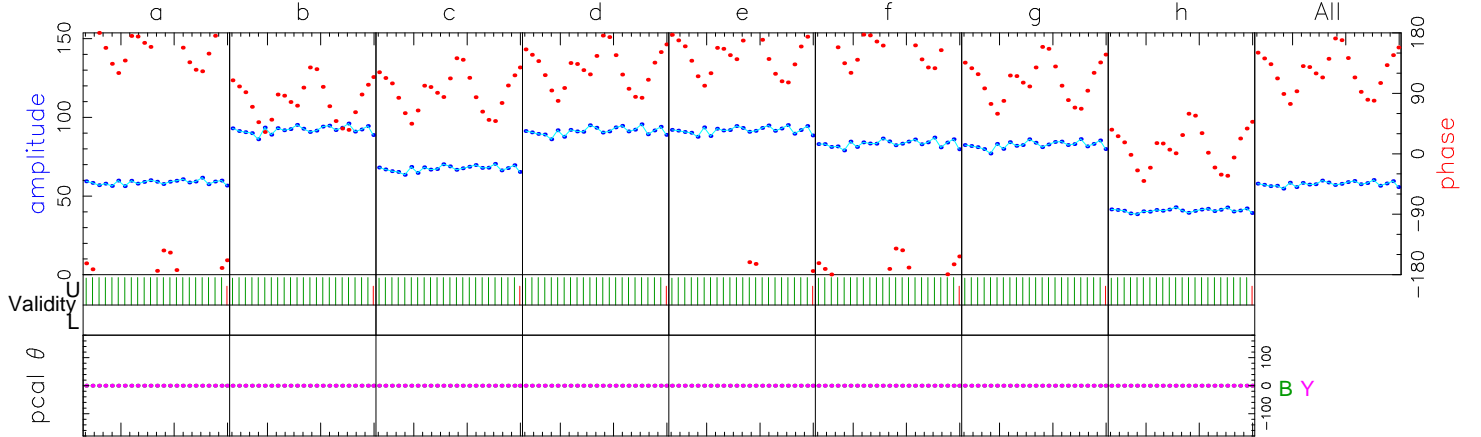
Fringe quality 3

SNR 1785.1  
 Int time 162.327  
 Amp 51.237  
 Phase 9.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.055211  
 MBD 0.007092  
 Fringe rate (Hz)  
 -0.005802  
 Ion TEC 0.000  
 Ref freq (MHz)  
 43140.0000  
 AP (sec) 0.512



Exp. c241d  
 Exper # 1234  
 Yr:day 2024:112  
 Start 220017.41  
 Stop 220300.23  
 FRT 220130.00  
 Corr/FF/build  
 2024:316:155049  
 2025:042:145511  
 2024:113:095956  
 RA & Dec (J2000)  
 16h42m58.809971s  
 +39°48'36.993958"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	166.9	79.4	92.7	126.7	149.2	169.5	109.0	9.2	Phase	122.1
B	52.1	81.7	59.8	81.0	81.4	73.8	73.0	36.1	Ampl.	67.3
Y	267.9	270.5	271.4	271.0	271.4	270.9	269.8	265.4	Sbd box	271.1
B	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	2.82827321670E+03	Apriori delay (usec)	2.82821924995E+03	Resid mbdelay (usec)	7.09175E-03	+/-	6.1E-07
Sband delay (usec)	2.82827446095E+03	Apriori clock (usec)	7.5559441E+01	Resid sbdelay (usec)	5.52110E-02	+/-	4.8E-06
Phase delay (usec)	2.82821925781E+03	Apriori clockrate (us/s)	8.1915204E-07	Resid phdelay (usec)	7.86198E-06	+/-	4.1E-09
Delay rate (us/s)	-1.90871878136E-01	Apriori rate (us/s)	-1.90871743635E-01	Resid rate (us/s)	-1.34501E-07	+/-	4.4E-11
Total phase (deg)	169.1	Apriori accel (us/s/s)	-5.81874571818E-06	Resid phase (deg)	9.6	+/-	0.1

ph/seg (deg)	27.9	RMS	27.9	Theor.	0.2	Amplitude	51.237 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	13.0		13.0		0.3	Search (1024X32)	50.395	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	58.6		58.6		0.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	43.7		43.7		0.2	Inc. seg. avg.	57.750	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Inc. frq. avg.	67.345	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 78.3 el 45.3 pa -54.2 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 710.810 221.459 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/BY..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/BY.Q.56.3MP1HX