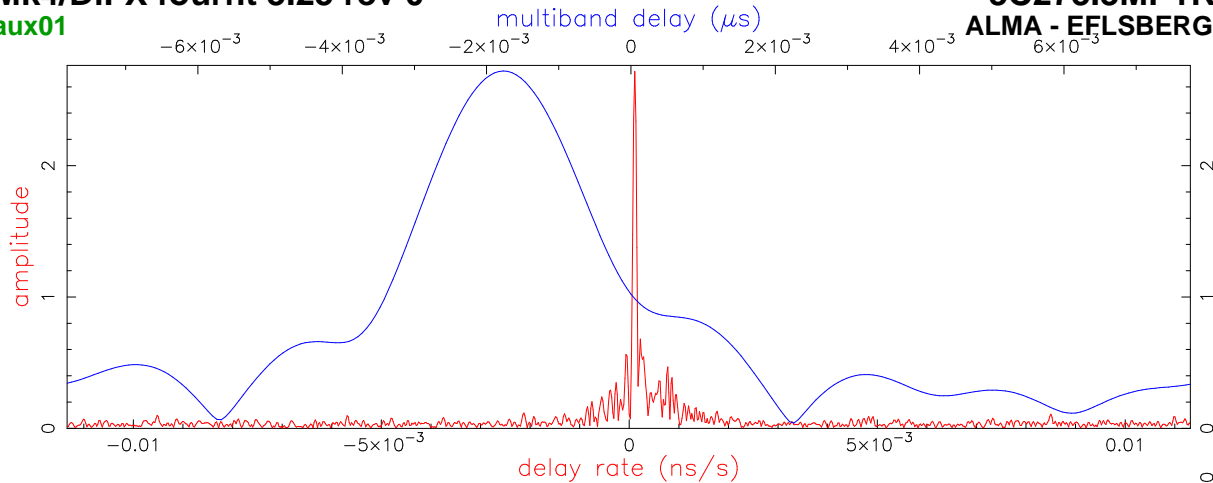


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aux01

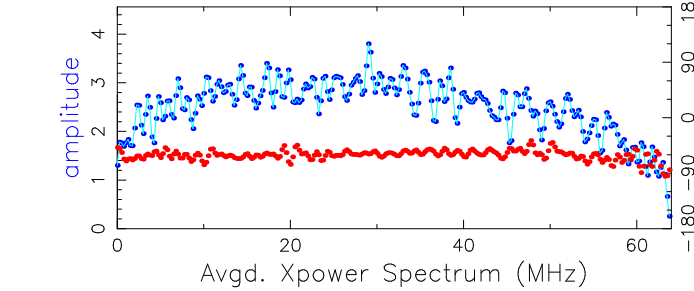
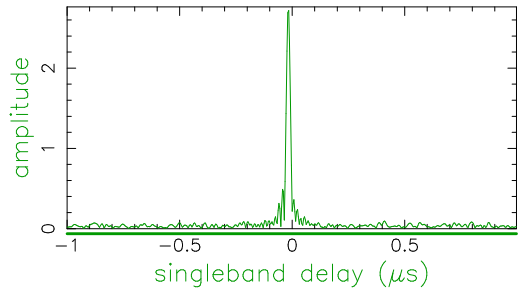
3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol XR



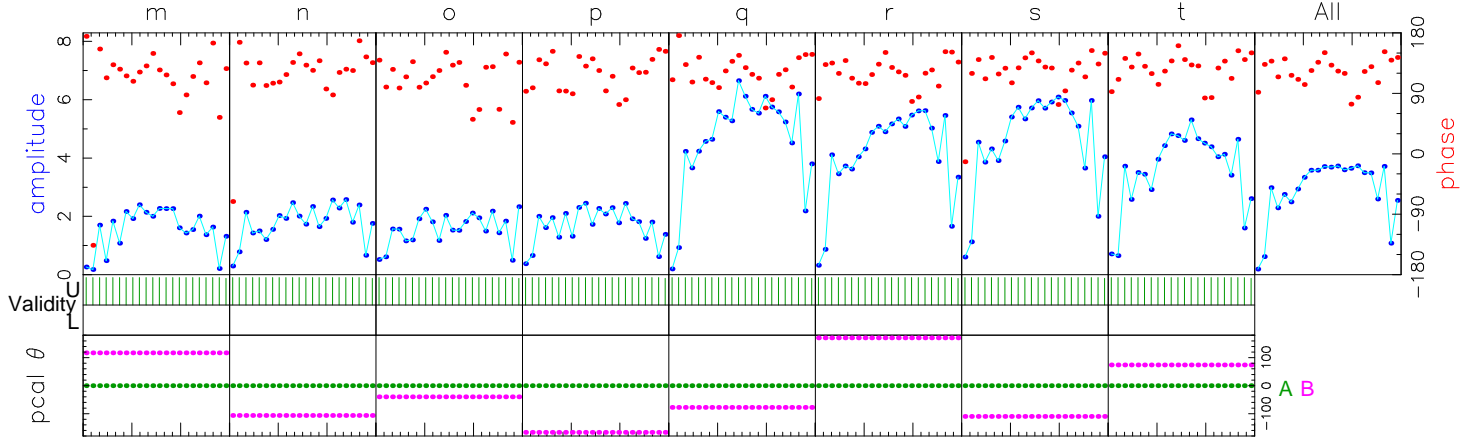
Fringe quality 5

SNR 101.4  
 Int time 179.974  
 Amp 2.763  
 Phase 122.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.017331  
 MBD -0.001816  
 Fringe rate (Hz)  
 0.009244  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171322  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
B	0	0	0	0	0	0	0	0		
A:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX		Chan ids
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	-3.11643521168E+03	Apriori delay (usec)	-3.11641777062E+03	Resid mbdelay (usec)	-1.81606E-03	+/-	1.1E-05
Sband delay (usec)	-3.11643510162E+03	Apriori clock (usec)	-2.0720217E+03	Resid sbdelay (usec)	-1.73310E-02	+/-	8.5E-05
Phase delay (usec)	-3.11641776667E+03	Apriori clockrate (us/s)	1.7870709E-07	Resid phdelay (usec)	3.95504E-06	+/-	3.6E-08
Delay rate (us/s)	1.50640869084E+00	Apriori rate (us/s)	1.50640858353E+00	Resid rate (us/s)	1.07312E-07	+/-	3.5E-10
Total phase (deg)	-151.5	Apriori accel (us/s/s)	1.17482835173E-06	Resid phase (deg)	122.6	+/-	1.1

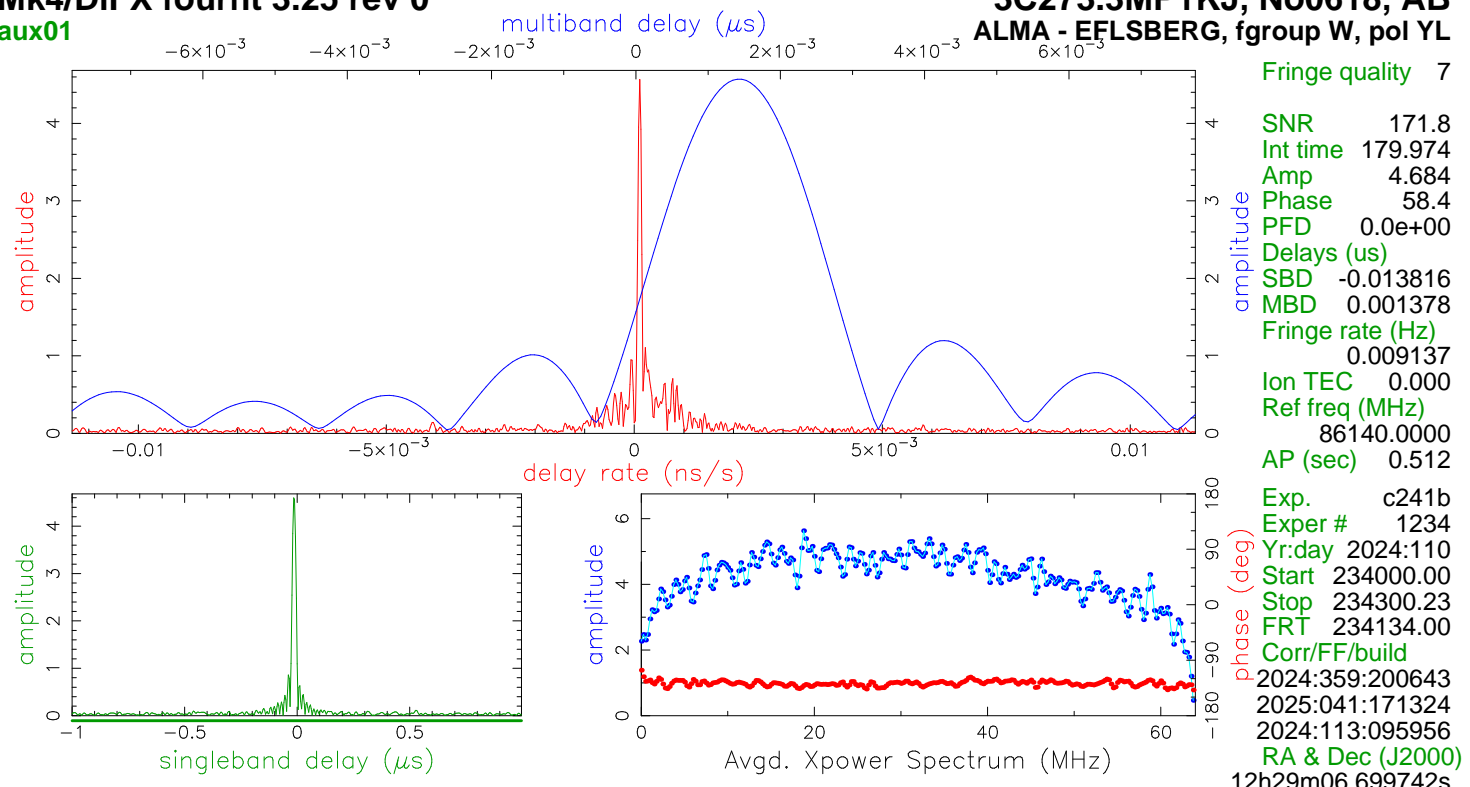
ph/seg (deg) 20.3 2.7 Search (1024X32) 2.678 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 37.2 4.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 5.3 1.6 Inc. seg. avg. 2.898 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 45.5 2.8 Inc. frq. avg. 2.725 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 A: az 70.9 el 33.8 pa -119.7 B: az 209.4 el 37.7 pa 18.4 u,v (fr/asec) -8634.163 -10270.791 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AB.W.13.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

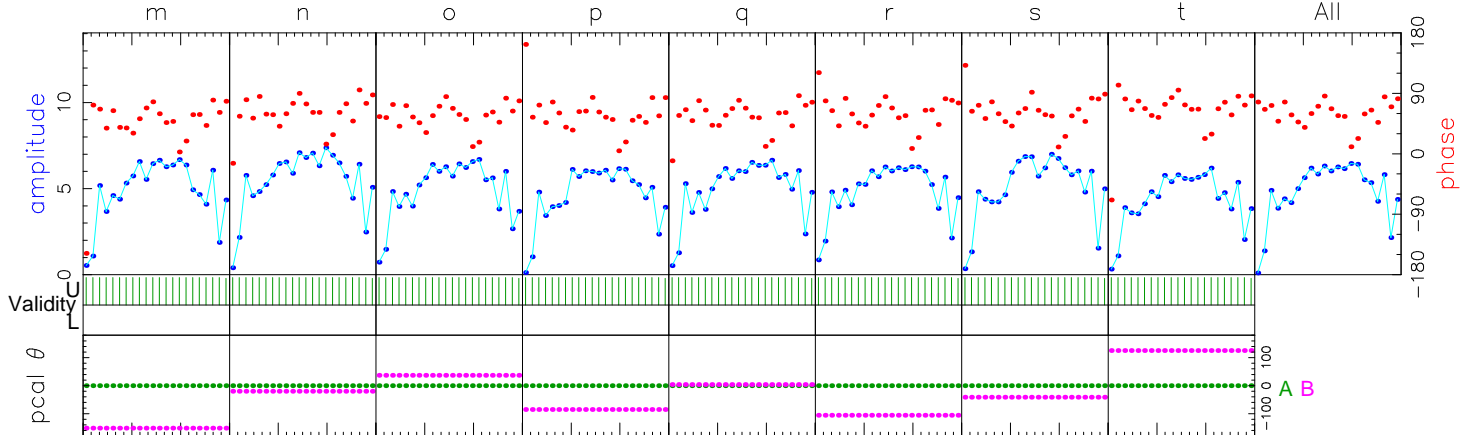
aux01

3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol YL



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



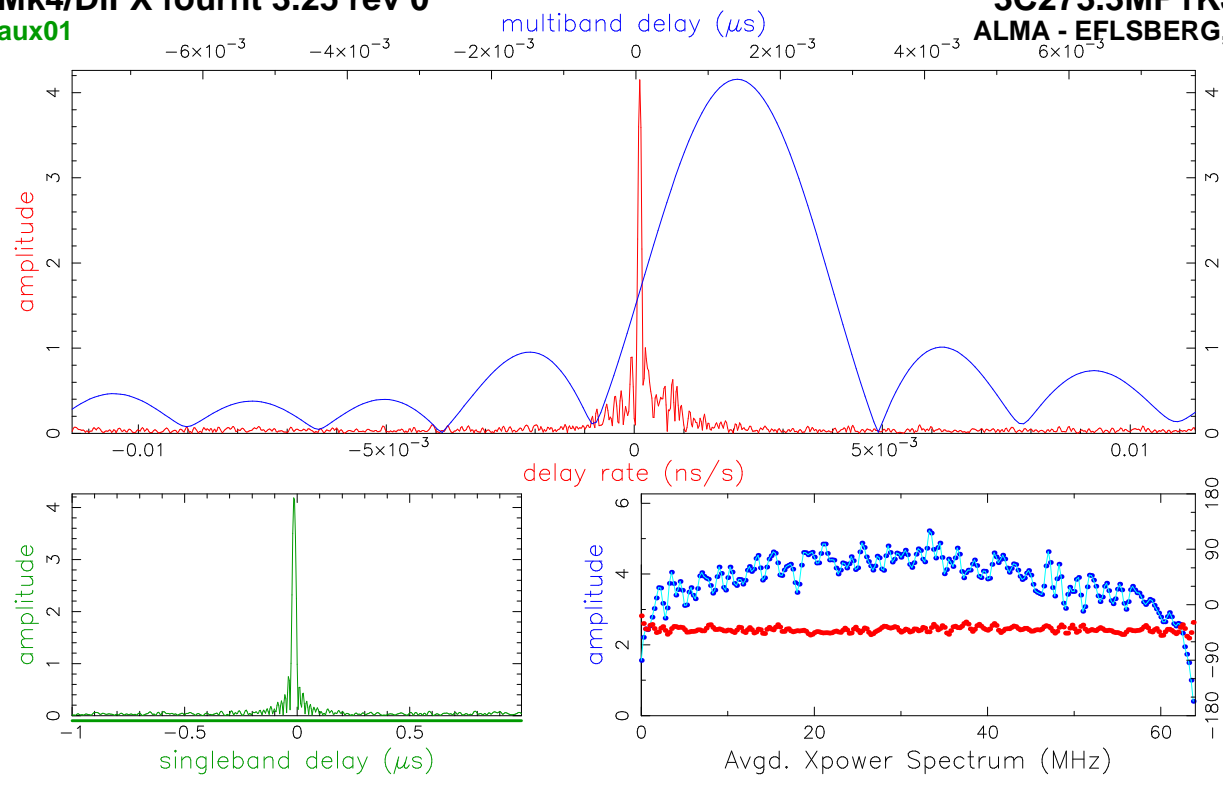
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
51.2	63.1	55.7	54.6	56.6	58.9	59.7	67.6	67.6	Phase	58.4
4.5	5.1	4.6	4.3	4.7	4.6	4.7	4.1	4.1	Ampl.	4.6
255.0	253.7	253.0	253.0	253.0	253.0	253.1	253.3	254.6	Sbd box	253.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
B	0	0	0	0	0	0	0	0	PC freqs	
A:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:B	0:-151	0:-20	0:37	0:-85	0:4	0:-106	0:-41	0:125	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-3.11643201771E+03		Apriori delay (usec)	-3.11641777062E+03	Resid mbdelay (usec)	1.37791E-03	+/-	6.3E-06		
Sband delay (usec)	-3.11643158662E+03		Apriori clock (usec)	-2.0720217E+03	Resid sbdelay (usec)	-1.38160E-02	+/-	5.0E-05		
Phase delay (usec)	-3.11641776874E+03		Apriori clockrate (us/s)	1.7870709E-07	Resid phdelay (usec)	1.88356E-06	+/-	2.2E-08		
Delay rate (us/s)	1.50640868960E+00		Apriori rate (us/s)	1.50640858353E+00	Resid rate (us/s)	1.06068E-07	+/-	2.1E-10		
Total phase (deg)		-215.7	Apriori accel (us/s/s)	1.17482835173E-06	Resid phase (deg)	58.4	+/-	0.7		
RMS	18.7	1.6	Amplitude	4.684 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	35.8	2.7	Search (1024X32)	4.530	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	5.6	0.9	Inc. seg. avg.	4.849	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	6.2	1.6	Inc. frq. avg.	4.581	Data rate(Mb/s):	128 MBps 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011		
					Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00	
A:	az 70.9 el 33.8 pa -119.7		B:	az 209.4 el 37.7 pa 18.4	u,v (fr/asec)	-8634.163 -10270.791		simultaneous interpolator		
Control file:	cf_1234_gmva		Input file:	/Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ	Output file:	/Exps/c241b/v2/3mm/1234/No0618//AB.W.23.3MP1KJ				

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol XL

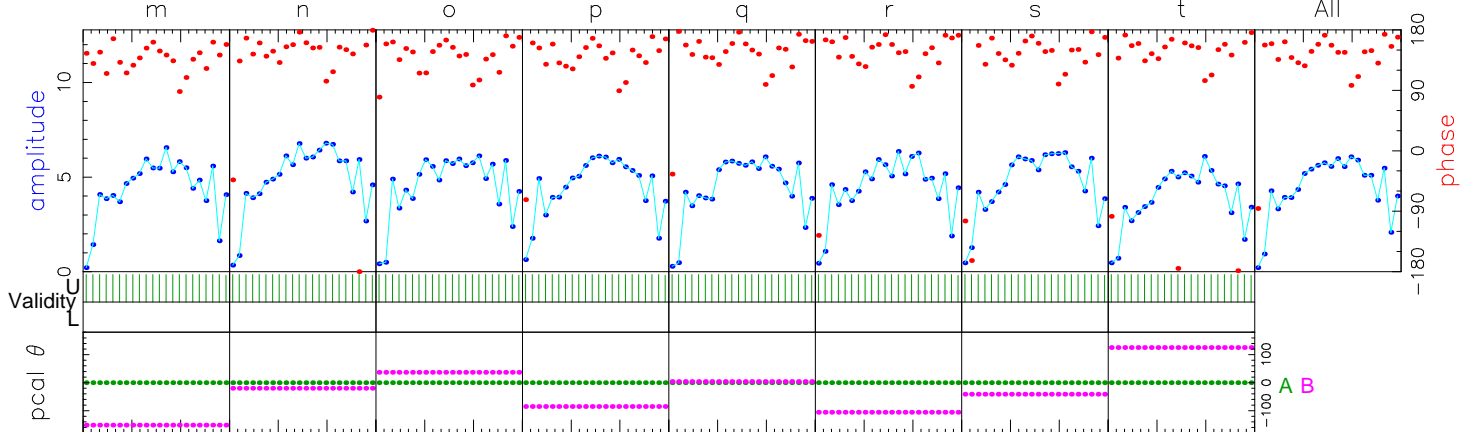


Fringe quality 6

SNR 156.3  
 Int time 179.974  
 Amp 4.262  
 Phase 145.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.013837  
 MBD 0.001346  
 Fringe rate (Hz) 0.009127  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171317  
 2024:113:095956  
 RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"

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



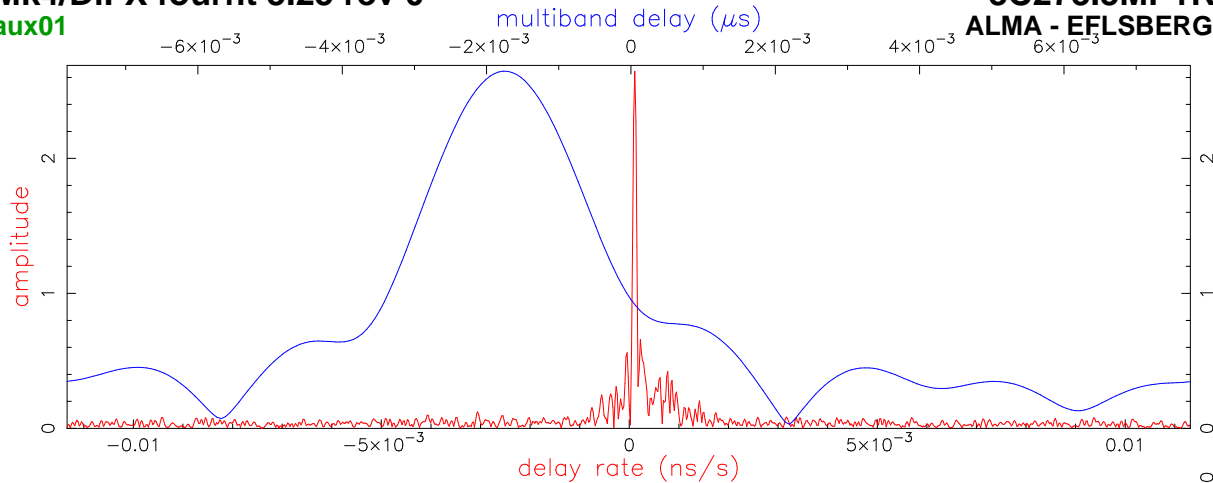
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
B	0	0	0	0	0	0	0	0		
A:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:B	0:-151	0:-20	0:37	0:-85	0:4	0:-106	0:-41	0:125		
A	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec) (SBD)	-3.11643204931E+03									
Sband delay (usec)	-3.11643160712E+03									
Phase delay (usec)	-3.11641776593E+03									
Delay rate (us/s)	1.50640868948E+00									
Total phase (deg)			-128.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									145.5	+/- 0.7
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00	0.000E+00	(us/s)						sb window (us)	-1.000 1.000
Bits/sample:	2x2	SampCntNorm: enabled							mb window (us)	-0.008 0.008
Data rate(MSamp/s):	128 MBpts	32 Amb	0.016 us						dr window (ns/s)	-0.011 0.011
Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite						ion window (TEC)	0.00 0.00
A: az 70.9 el 33.8 pa -119.7										B: az 209.4 el 37.7 pa 18.4
Control file: cf_1234_gmva										Input file: /Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ
										Output file: /Exps/c241b/v2/3mm/1234/No0618//AB.W.2.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

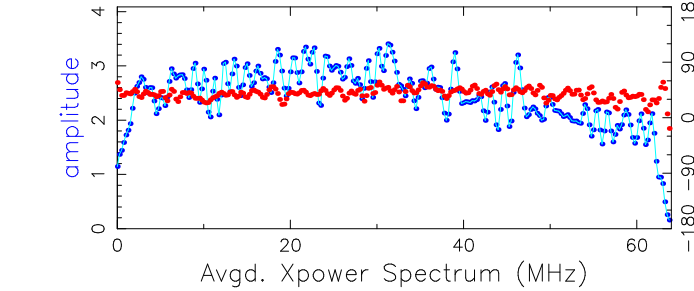
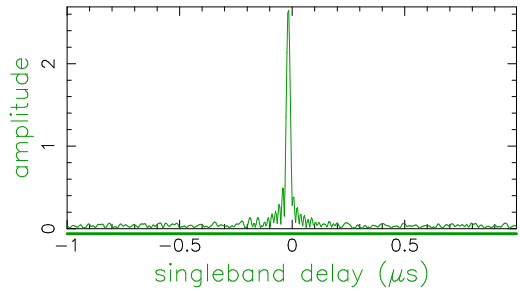
3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol YR



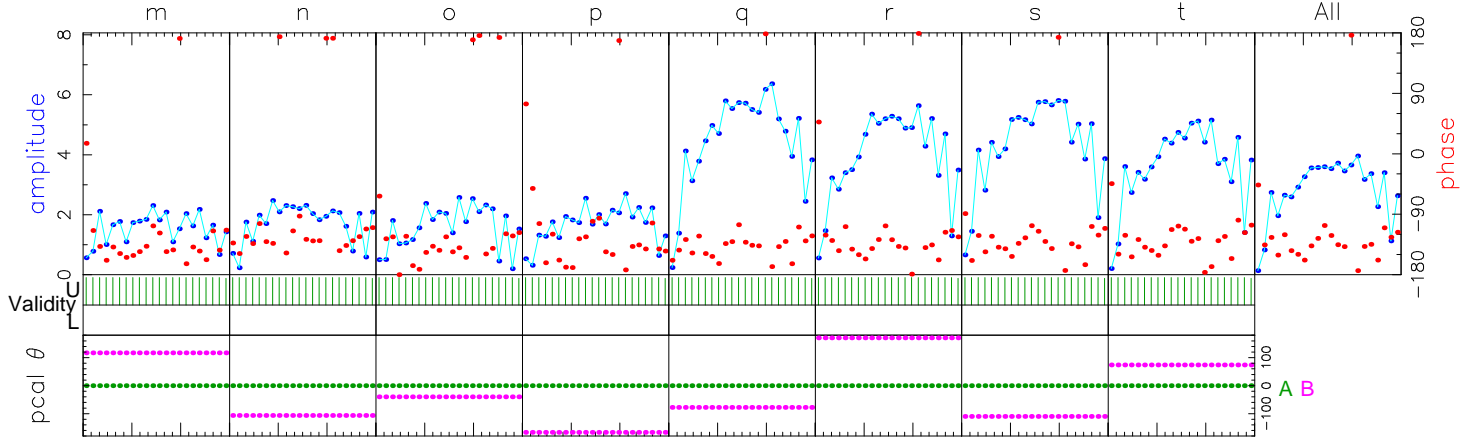
Fringe quality 4

SNR 98.6  
 Int time 179.974  
 Amp 2.689  
 Phase -137.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.017320  
 MBD -0.001797  
 Fringe rate (Hz)  
 0.009174  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171319  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

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



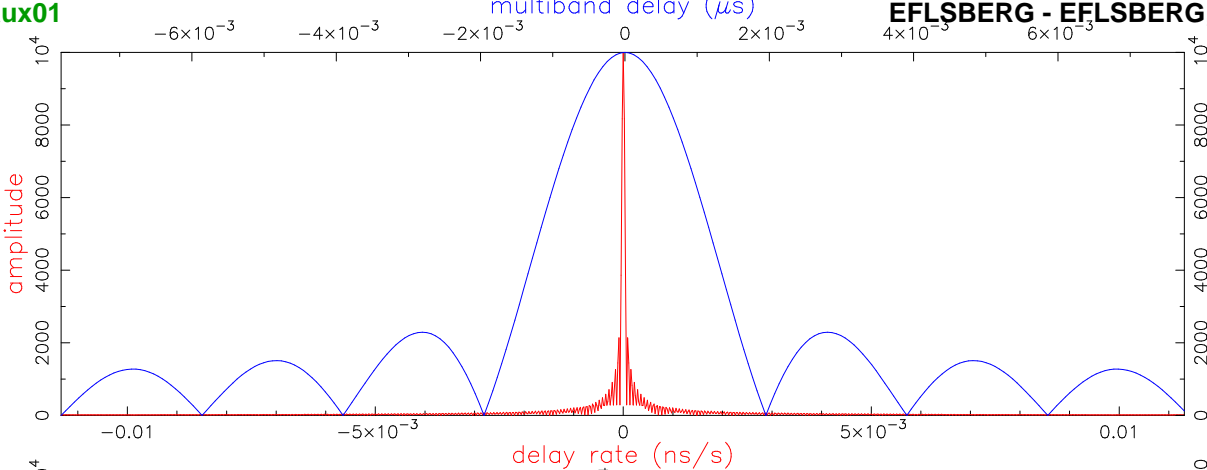
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-140.3	-134.4	-146.7	-139.8	-139.6	-138.8	-136.2	-131.5	Phase	-137.7	
	1.4	1.6	1.5	1.4	4.2	3.7	4.0	3.4	Ampl.	2.6	
	254.5	252.6	252.3	252.3	252.2	252.2	252.2	253.8	Sbd box	252.6	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
A	0	0	0	0	0	0	0	0	PC freqs		
B	0	0	0	0	0	0	0	0	PC freqs		
A:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
A:B	0:118	0:-106	0:-40	0:-167	0:-77	0:171	0:-110	0:74	ManI PC		
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
B	1000	1000	1000	1000	1000	1000	1000	1000			
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	-3.11643519268E+03		Apriori delay (usec)		-3.11641777062E+03		Resid mbdelay (usec)		-1.79706E-03	+/- 1.1E-05	
Sband delay (usec)	-3.11643509087E+03		Apriori clock (usec)		-2.0720217E+03		Resid sbdelay (usec)		-1.73202E-02	+/- 8.7E-05	
Phase delay (usec)	-3.11641777506E+03		Apriori clockrate (us/s)		1.7870709E-07		Resid phdelay (usec)		-4.44026E-06	+/- 3.7E-08	
Delay rate (us/s)	1.50640869003E+00		Apriori rate (us/s)		1.50640858353E+00		Resid rate (us/s)		1.06503E-07	+/- 3.6E-10	
Total phase (deg)			Apriori accel (us/s/s)		1.17482835173E-06		Resid phase (deg)		-137.7	+/- 1.2	
	RMS	Theor.	Amplitude	2.689 +/- 0.027	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	27.1	2.7	Search (1024X32)	2.593	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000	
amp/seg (%)	37.2	4.8	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	5.0	1.6	Inc. seg. avg.	2.824	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011	0.011	
amp/frq (%)	44.6	2.9	Inc. frq. avg.	2.649	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
A: az 70.9 el 33.8 pa -119.7		B: az 209.4 el 37.7 pa 18.4		u,v (fr/asec) -8634.163 -10270.791		simultaneous interpolator					
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ		Output file: /Exps/c241b/v2/3mm/1234/No0618//AB.W.6.3MP1KJ							

Mk4/DiFX fourfit 3.25 rev 0

aux01

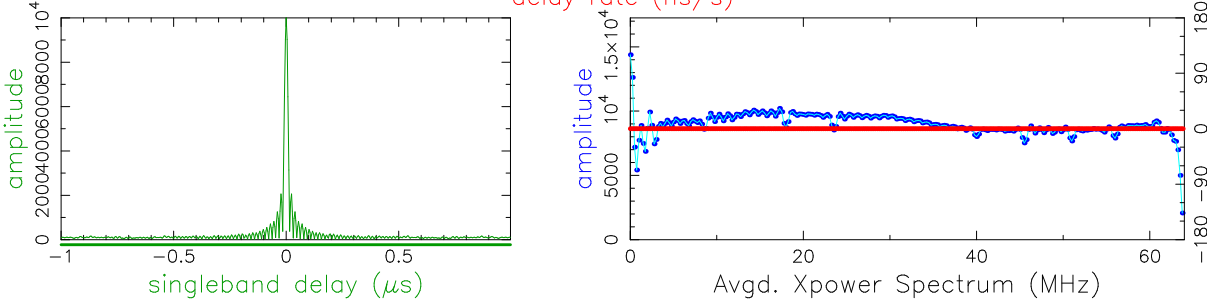
3C273.3MP1KJ, No0618, BB

EFLSBERG - EFLSBERG, fgroup W, pol RR



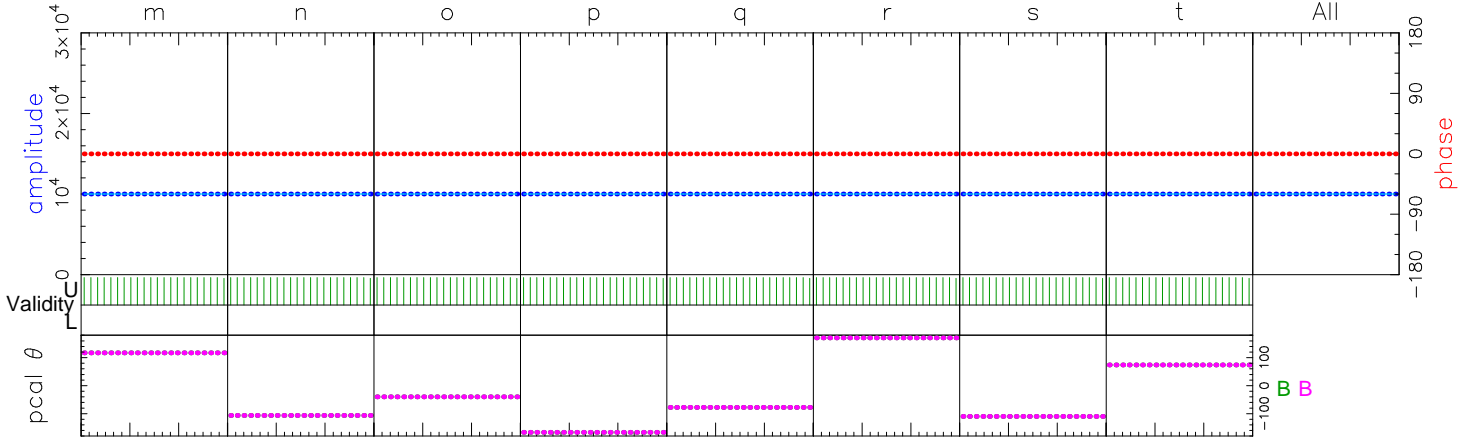
Fringe quality 9

SNR 366861.3  
 Int time 179.974  
 Amp 10000.000  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171322  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	10000.0	10000.0
B	0	0	0	0	0	0	0	0	Ampl.	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
B:B	118:118	-106:-106	-40:-40	-167:-167	-77:-77	171:171	-110:-110	74:74	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	3.0E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.3E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	1.0E-11
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	9.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

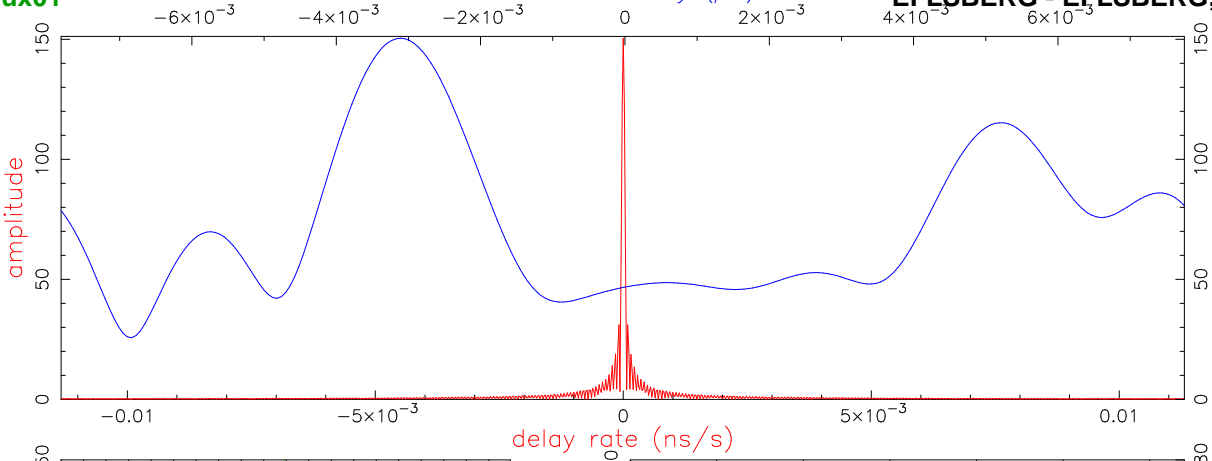
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 B: az 209.4 el 37.7 pa 18.4 B: az 209.4 el 37.7 pa 18.4 u,v (fr/asec) 0.000 0.000 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BB..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BB.W.14.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

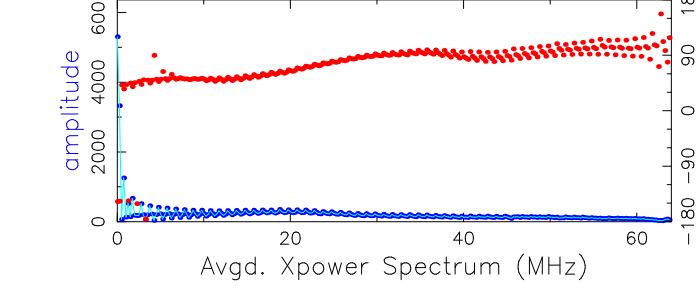
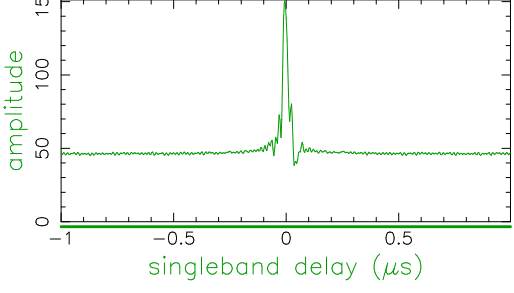
aux01

3C273.3MP1KJ, No0618, BB

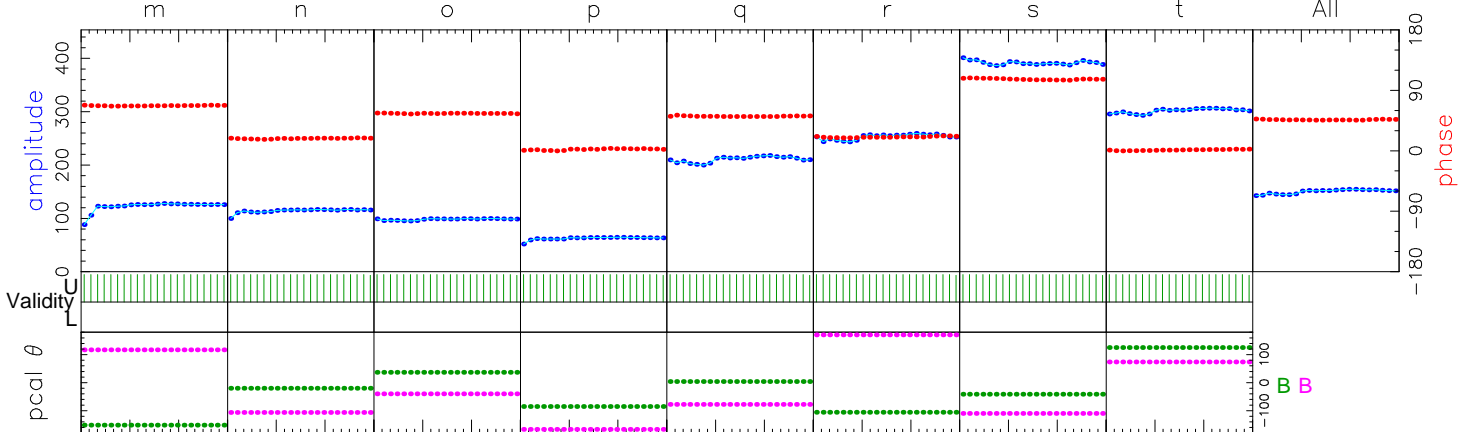
EFLSBERG - EFLSBERG, fgroup W, pol LR



Fringe quality 5  
 Error code G  
 SNR 5546.2  
 Int time 179.974  
 Amp 151.179  
 Phase 46.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.006506  
 MBD -0.003080  
 Fringe rate (Hz)  
 -0.000010  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171324  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:B	-151:118	-20:-106	37:-40	-85:-167	4:-77	-106:171	-41:-110	125:74		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) -3.08043750000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -3.08044E-03 +/- 2.0E-07  
 Sband delay (usec) -6.50550000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -6.50550E-03 +/- 1.6E-06  
 Phase delay (usec) 1.48904041274E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.48904E-06 +/- 6.7E-10  
 Delay rate (us/s) -1.13369219133E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -1.13369E-10 +/- 6.4E-12  
 Total phase (deg) 46.2 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 46.2 +/- 0.0

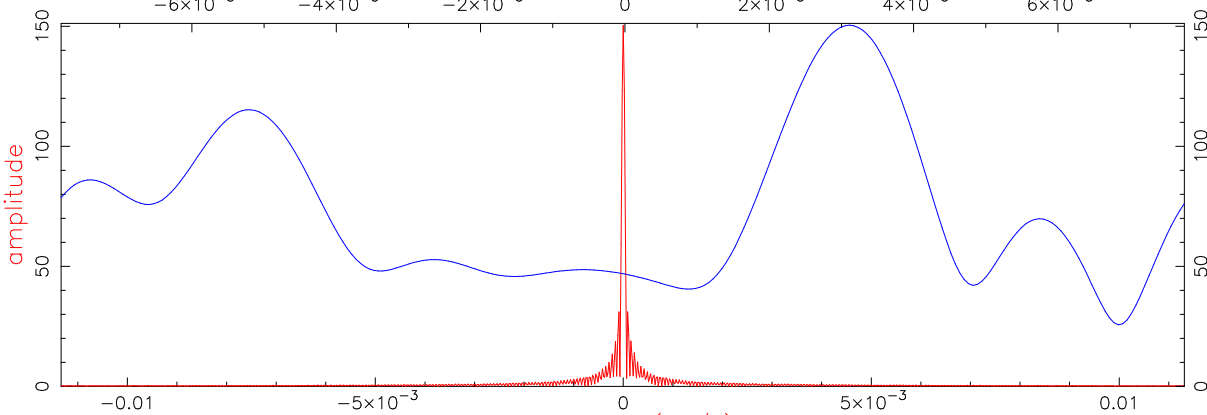
RMS Theor. Amplitude 151.179 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.5 0.0 Search (1024X32) 148.453 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 2.7 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 40.0 0.0 Inc. seg. avg. 150.370 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 76.6 0.1 Inc. frq. avg. 194.410 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 B: az 209.4 el 37.7 pa 18.4 B: az 209.4 el 37.7 pa 18.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BB..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BB.W.24.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

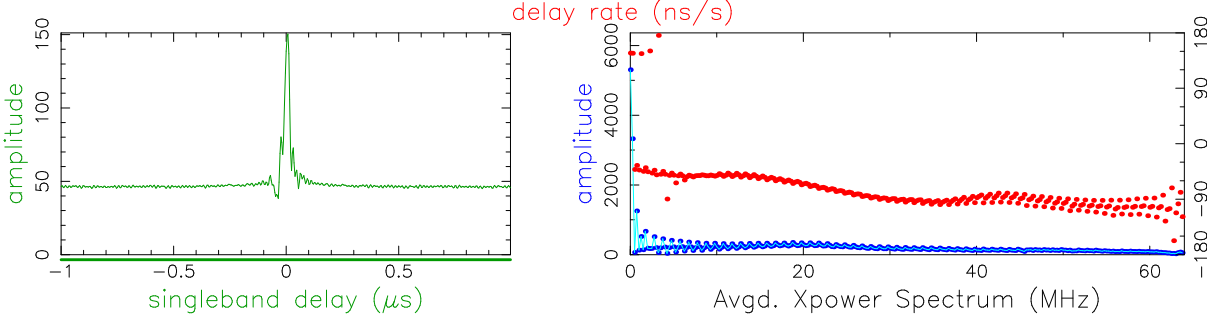
aux01

3C273.3MP1KJ, No0618, BB

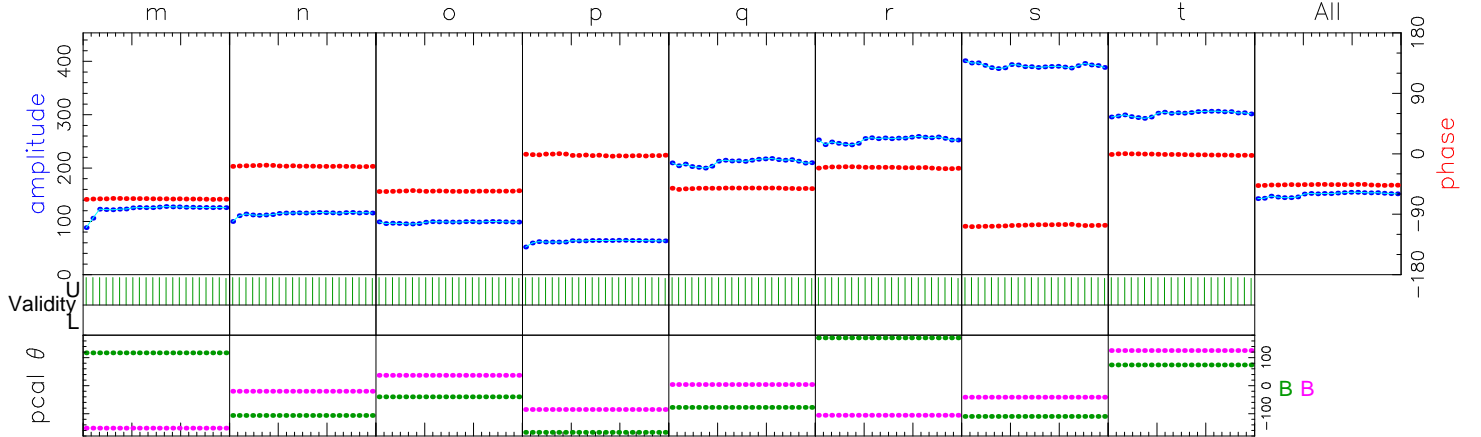
EFLSBERG - EFLSBERG, fgroup W, pol RL



Fringe quality 5  
 Error code G  
 SNR 5546.2  
 Int time 179.974  
 Amp 151.179  
 Phase -46.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.006506  
 MBD 0.003080  
 Fringe rate (Hz)  
 0.000010  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171327  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"



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



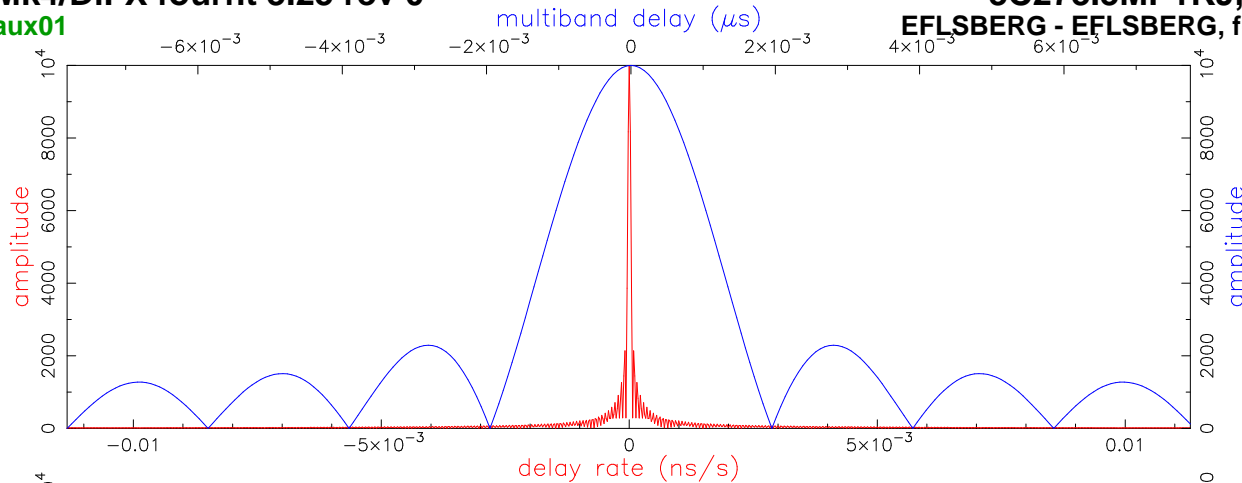
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-67.1	-18.3	-55.6	-2.1	-51.4	-20.5	-106.6	-1.2	Phase	-46.2	
	122.9	114.2	98.2	62.7	210.9	253.1	391.5	301.7	Ampl.	194.4	
	257.4	258.5	258.4	256.8	258.6	258.2	260.4	255.6	Sbd box	258.7	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:B	118:-151	-106:-20	-40:37	-167:-85	-77:4	171:-106	-110:-41	74:125	Mani PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
B	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	3.08043750000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.08044E-03	+/- 2.0E-07	
Sband delay (usec)	6.50550000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		6.50550E-03	+/- 1.6E-06	
Phase delay (usec)	-1.48904041277E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.48904E-06	+/- 6.7E-10	
Delay rate (us/s)	1.13369219133E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.13369E-10	+/- 6.4E-12	
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-46.2	+/- 0.0	
	RMS	Theor.	Amplitude	151.179 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	0.5	0.0	Search (1024X32)	148.453		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	2.7	0.1	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	40.0	0.0	Inc. seg. avg.	150.370		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	76.6	0.1	Inc. frq. avg.	194.410		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 209.4 el 37.7 pa 18.4	B: az 209.4 el 37.7 pa 18.4		u,v (fr/asec) 0.000 0.000						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0618/BB..3MP1KJ		Output file: /Exps/c241b/v2/3mm/1234/No0618/BB.W.29.3MP1KJ								

Mk4/DiFX fourfit 3.25 rev 0

aux01

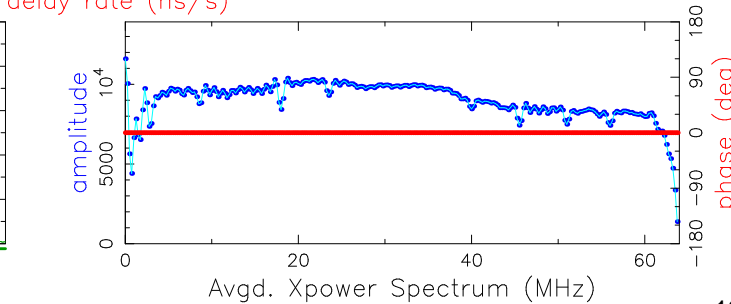
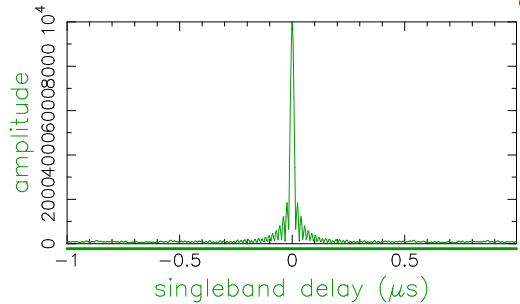
3C273.3MP1KJ, No0618, BB

EFLSBERG - EFLSBERG, fgroup W, pol LL



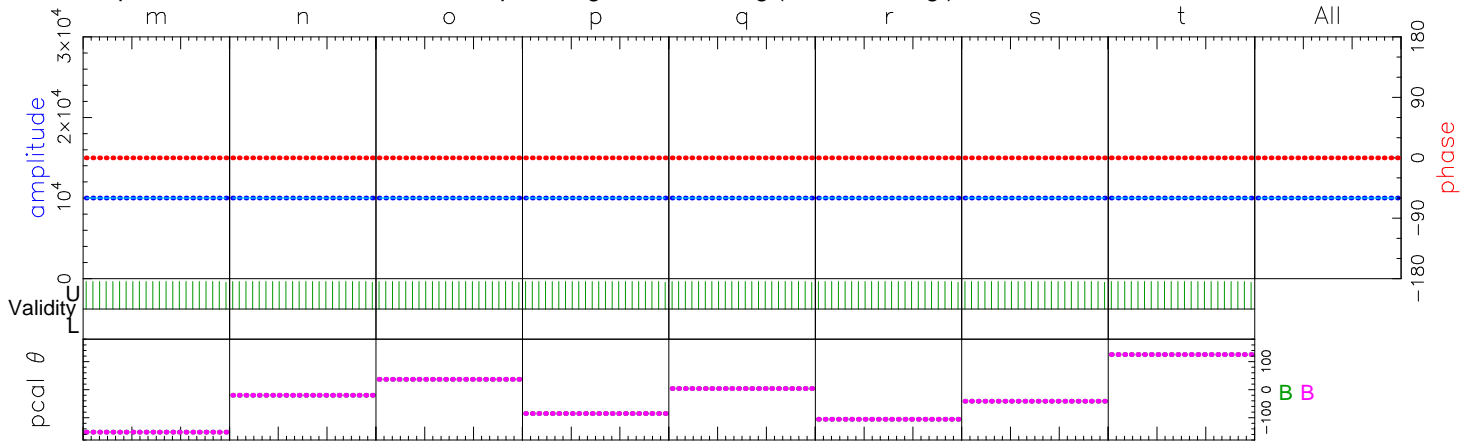
Fringe quality 9

SNR 366861.3  
 Int time 179.974  
 Amp 10000.000  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171320  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	10000.0	10000.0
B	0	0	0	0	0	0	0	0	257.0	257.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
B:B	-151:-151	-20:-20	37:37	-85:-85	4:4	-106:-106	-41:-41	125:125	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	257.0	257.0
B	1000	1000	1000	1000	1000	1000	1000	1000	0.0	0.0
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	0.0	0.0
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	0.0	0.0

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	3.0E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.3E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	1.0E-11
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	9.7E-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 RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 B: az 209.4 el 37.7 pa 18.4 B: az 209.4 el 37.7 pa 18.4 u,v (fr/asec) 0.000 0.000 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BB..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BB.W.9.3MP1KJ simultaneous interpolator

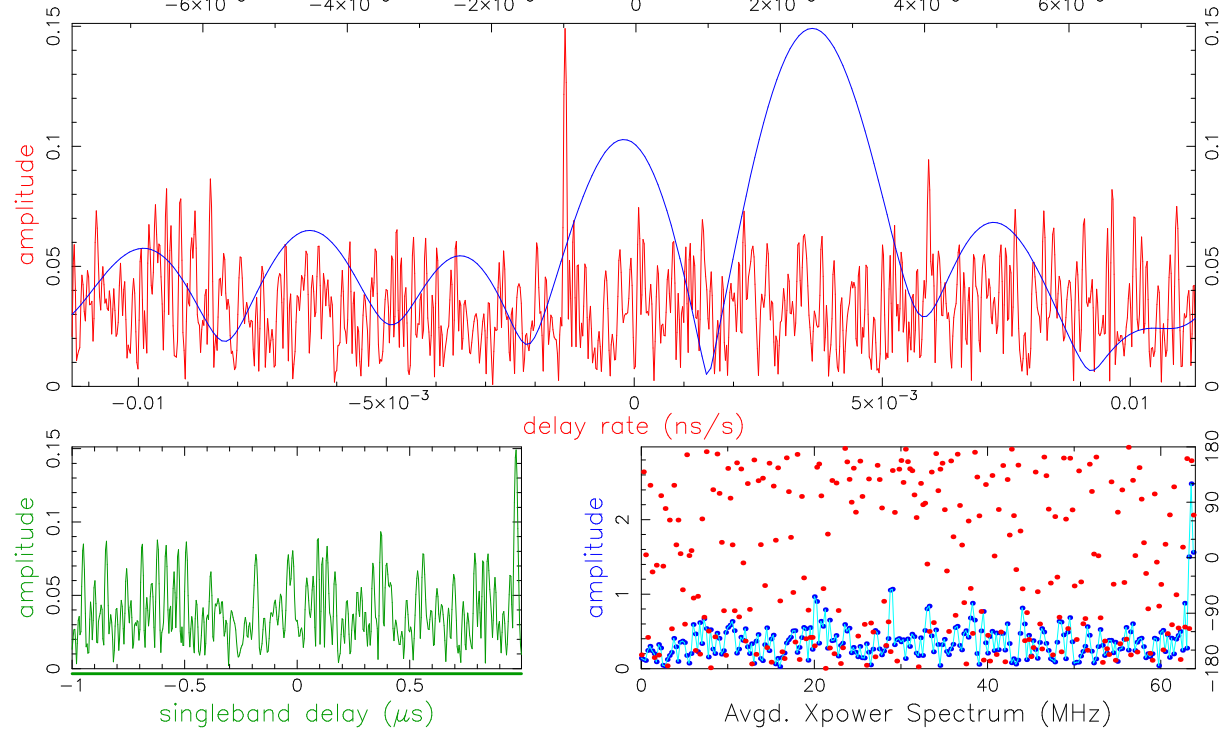


Mk4/DiFX fourfit 3.25 rev 0

aux01

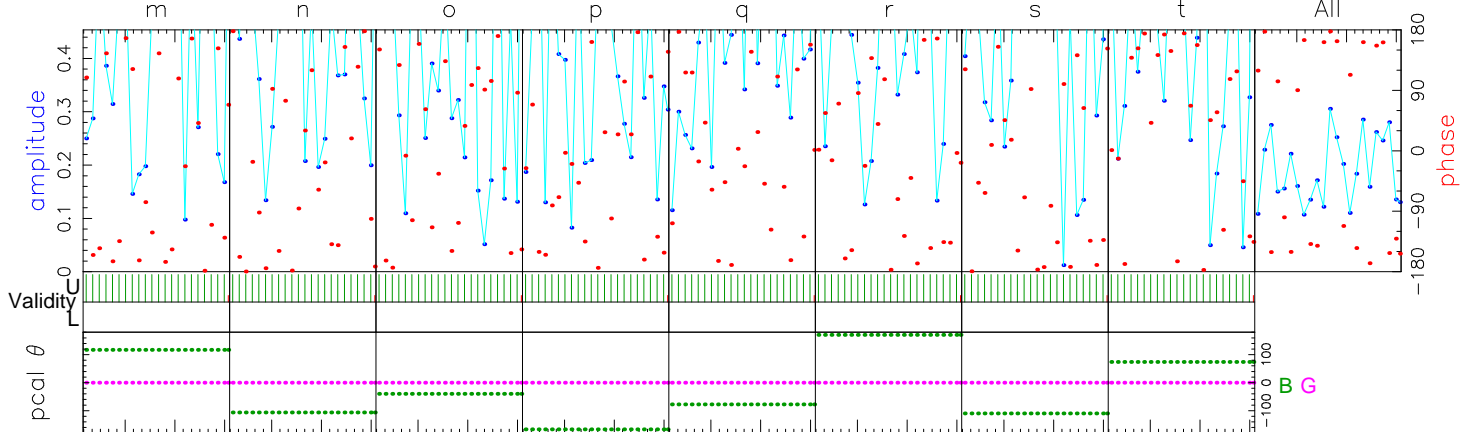
3C273.3MP1KJ, No0618, BG

EFLSBERG - GBT\_COLD, fgroup W, pol RR



Fringe quality 0  
 SNR 5.4  
 Int time 170.784  
 Amp 0.151  
 Phase -176.1  
 PFD 1.0e+00  
 Delays (us)  
 SBD 0.971463  
 MBD 0.002476  
 Fringe rate (Hz)  
 -0.120729  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234009.22  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171341  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



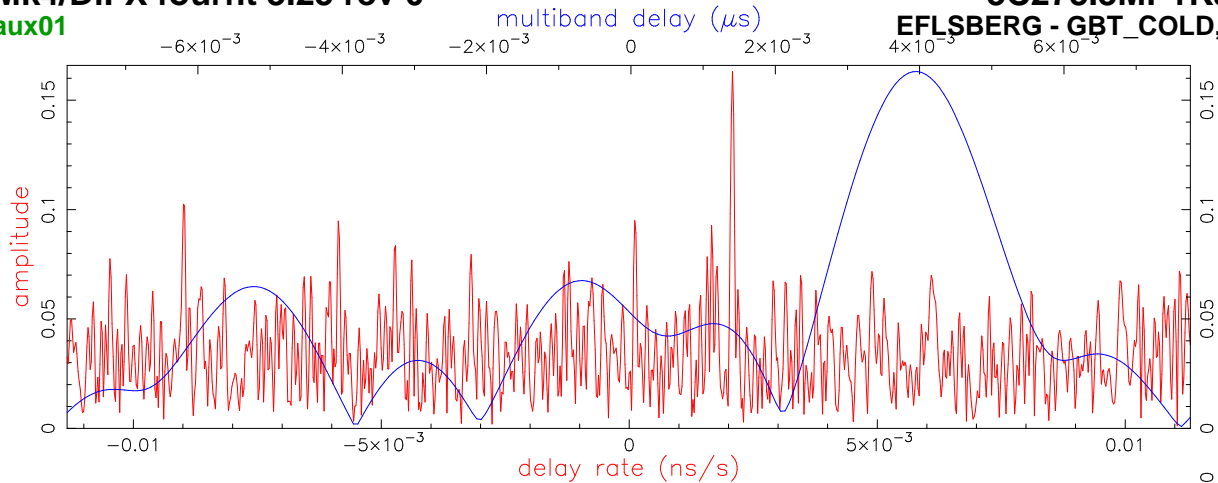
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.0	-174.4	166.2	-126.1	-135.8	-176.0	-151.1	155.9	Phase	-176.1
	0.3	0.1	0.2	0.1	0.0	0.1	0.2	0.2	Ampl.	0.1
	506.6	98.9	47.3	55.9	476.2	279.4	228.3	500.0	Sbd box	505.7
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	5.08587500130E+03		Apriori delay (usec)		5.08490377503E+03		Resid mbdelay (usec)		2.47627E-03	+/- 2.0E-04
Sband delay (usec)	5.08587523828E+03		Apriori clock (usec)		-2.0765087E+01		Resid sbdelay (usec)		9.71463E-01	+/- 1.6E-03
Phase delay (usec)	5.08490376935E+03		Apriori clockrate (us/s)		-2.5992208E-07		Resid phdelay (usec)		-5.67743E-06	+/- 6.9E-07
Delay rate (us/s)	-1.47815782233E+00		Apriori rate (us/s)		-1.47815642079E+00		Resid rate (us/s)		-1.40155E-06	+/- 7.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.65812947727E-05		Resid phase (deg)		-176.1	+/- 21.3
RMS	45.2	51.2	Search (1024X32)		0.147	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	50.7	89.3	Interp.		0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	31.2	30.2	Inc. seg. avg.		0.139	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	58.6	52.7	Inc. frq. avg.		0.142	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
amp/frq (%)						Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
B: az 209.4 el 37.7 pa 18.4	G: az 105.4 el 21.4 pa -49.1		u, v (fr/asec)		8456.346 1257.922		simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0618//BG_.3MP1KJ		Output file: /Exps/c241b/v2/3mm/1234/No0618//BG.W.100.3MP1KJ							

Mk4/DiFX fourfit 3.25 rev 0

aux01

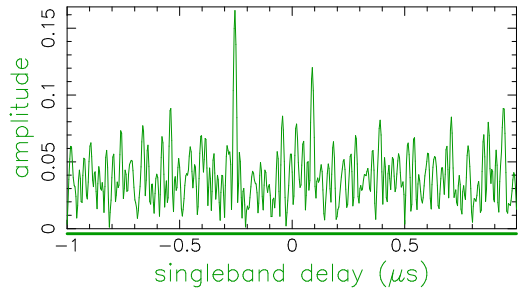
3C273.3MP1KJ, No0618, BG

EFLSBERG - GBT\_COLD, fgroup W, pol LR

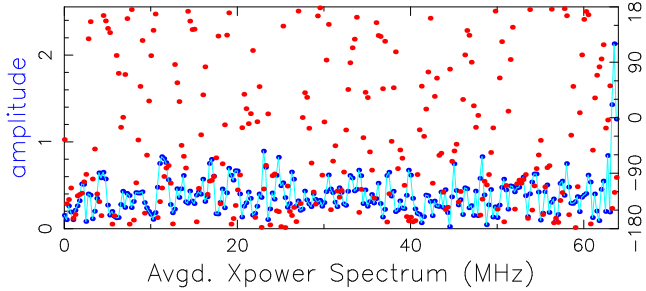


Fringe quality 0

SNR 5.8  
 Int time 170.784  
 Amp 0.166  
 Phase 126.2  
 PFD 4.7e-01  
 Delays (us)  
 SBD -0.254515  
 MBD 0.003954  
 Fringe rate (Hz)  
 0.180057  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

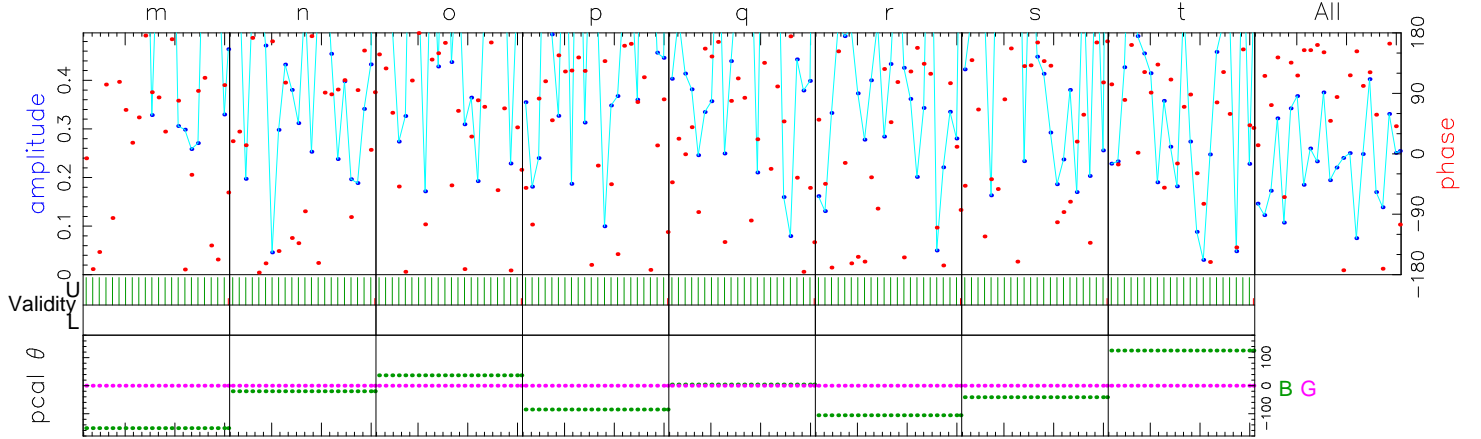


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234009.22  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171343  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 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
	115.4	140.2	124.1	134.0	94.0	146.5	155.8	95.9	Phase	126.2
	0.2	0.1	0.2	0.3	0.1	0.1	0.2	0.2	Ampl.	0.2
	184.4	496.9	1.6	208.8	186.0	341.9	266.1	112.8	Sbd box	191.8
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	5.08464210384E+03	Apriori delay (usec)	5.08490377503E+03	Resid mbdelay (usec)	3.95381E-03	+/-	1.9E-04
Sband delay (usec)	5.08464926003E+03	Apriori clock (usec)	-2.0765087E+01	Resid sbdelay (usec)	-2.54515E-01	+/-	1.5E-03
Phase delay (usec)	5.08490377910E+03	Apriori clockrate (us/s)	-2.5992208E-07	Resid phdelay (usec)	4.07100E-06	+/-	6.3E-07
Delay rate (us/s)	-1.47815433051E+00	Apriori rate (us/s)	-1.47815642079E+00	Resid rate (us/s)	2.09028E-06	+/-	6.4E-09
Total phase (deg)	191.4	Apriori accel (us/s/s)	-2.65812947727E-05	Resid phase (deg)	126.2	+/-	19.6

ph/seg (deg)	60.9	RMS	47.0	Theor.	60.9	Amplitude	0.166 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.9	Search (1024X32)	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	24.6	Inc. seg. avg.	0.178	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	36.2	Inc. frq. avg.	0.157	Data rate(Mb/s): 2048	simultaneous interpolator						

B: az 209.4 el 37.7 pa 18.4      G: az 105.4 el 21.4 pa -49.1      u,v (fr/asec) 8456.346 1257.922

Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/BG..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/BG.W.109.3MP1KJ

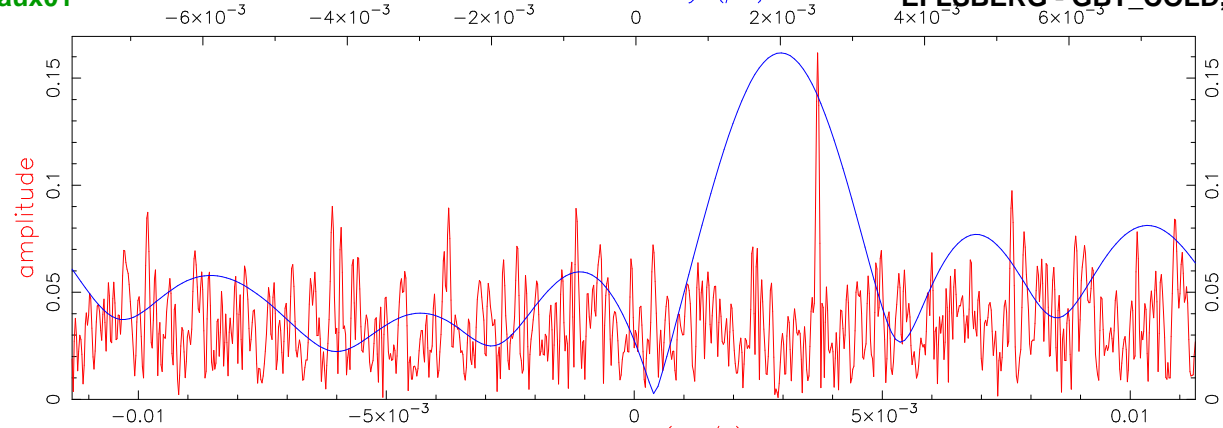
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BG

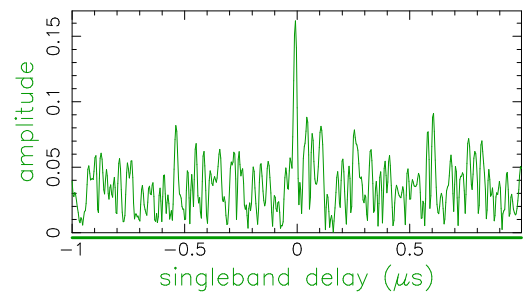
EFLSBERG - GBT\_COLD, fgroup W, pol RL

multiband delay ( $\mu$ s)

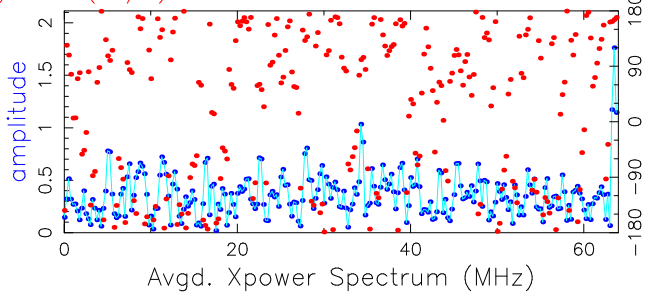


Fringe quality 0

SNR 5.8  
Int time 170.784  
Amp 0.169  
Phase 25.8  
PFD 5.8e-01  
Delays (us)  
SBD -0.008423  
MBD 0.002027  
Fringe rate (Hz) 0.319065  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

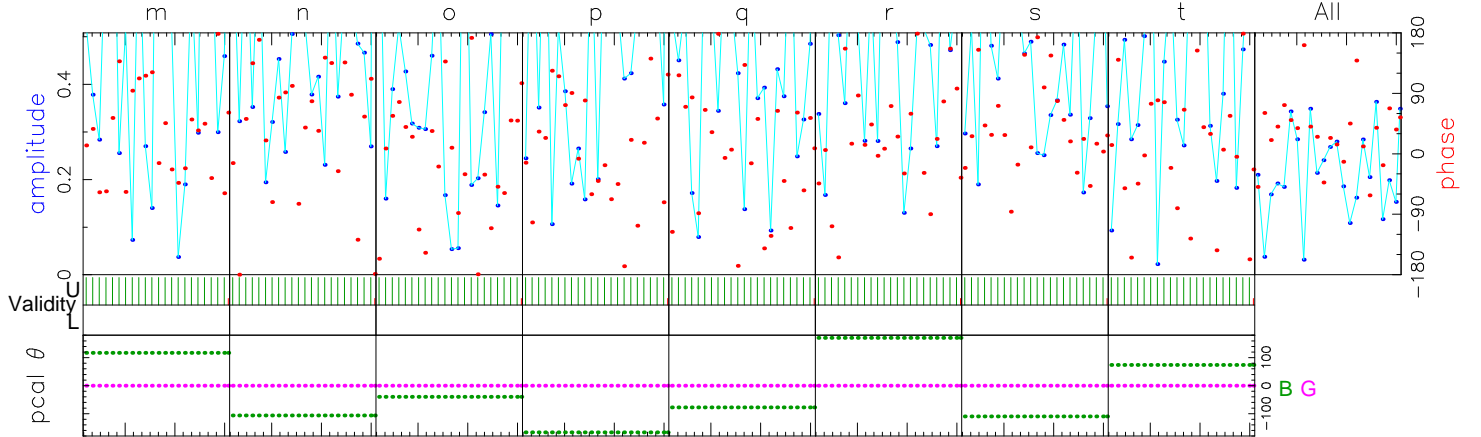


delay rate (ns/s)



Exp. c241b  
Exper # 1234  
Yr:day 2024:110  
Start 234009.22  
Stop 234300.23  
FRT 234134.00  
Corr/FF/build  
2024:359:200643  
2025:041:171345  
2024:113:095956  
RA & Dec (J2000)  
12h29m06.699742s  
+02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 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
	18.7	94.0	-4.6	-7.3	22.5	36.7	23.0	34.7	Phase	25.8
	0.3	0.2	0.1	0.2	0.1	0.2	0.3	0.1	Ampl.	0.2
	265.8	275.5	261.0	85.5	477.8	164.0	255.2	18.8	Sbd box	254.8
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	5.08489017691E+03	Apriori delay (usec)	5.08490377503E+03	Resid mbdelay (usec)	2.02688E-03	+/-	1.9E-04
Sband delay (usec)	5.08489535153E+03	Apriori clock (usec)	-2.0765087E+01	Resid sbdelay (usec)	-8.42350E-03	+/-	1.5E-03
Phase delay (usec)	5.08490377586E+03	Apriori clockrate (us/s)	-2.5992208E-07	Resid phdelay (usec)	8.31500E-07	+/-	6.4E-07
Delay rate (us/s)	-1.47815271676E+00	Apriori rate (us/s)	-1.47815642079E+00	Resid rate (us/s)	3.70402E-06	+/-	6.5E-09
Total phase (deg)		Apriori accel (us/s/s)	-2.65812947727E-05	Resid phase (deg)	25.8	+/-	19.8

ph/seg (deg)	RMS 52.0	Theor. 47.4	Amplitude Search (1024X32)	0.169 +/- 0.029	0.155	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	62.1	82.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	34.0	28.0	Inc. seg. avg.	0.163	0.170	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.3	48.8	Inc. frq. avg.	0.170	0.170	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 209.4 el 37.7 pa 18.4 G: az 105.4 el 21.4 pa -49.1 u,v (fr/asec) 8456.346 1257.922 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BG..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BG.W.120.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

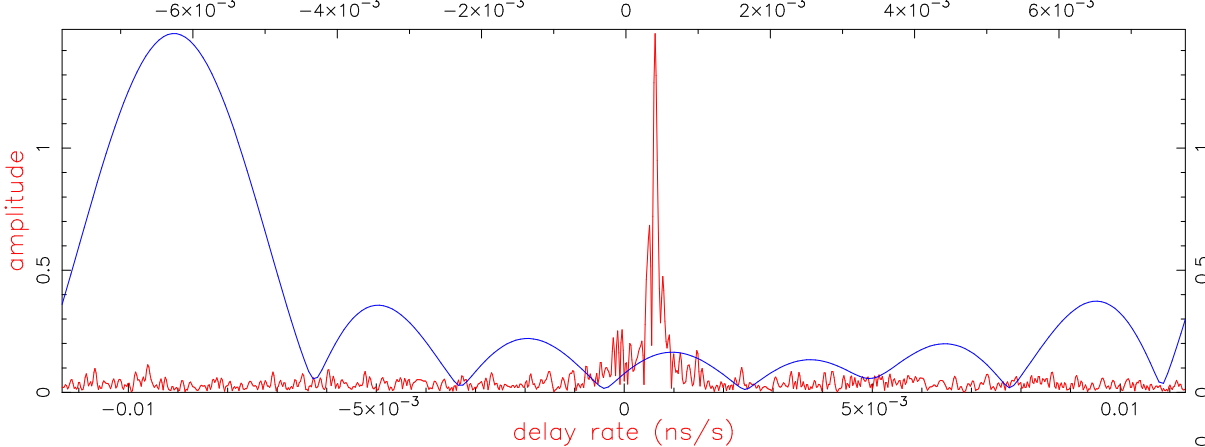
aux01

3C273.3MP1KJ, No0618, Bg

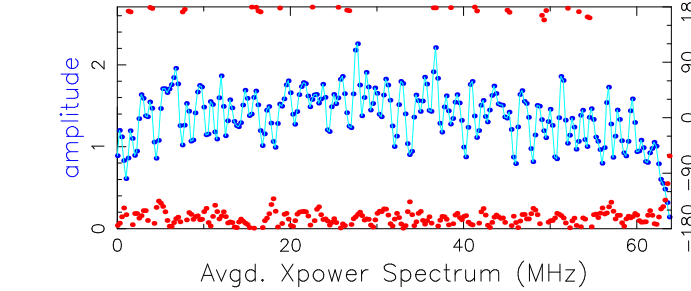
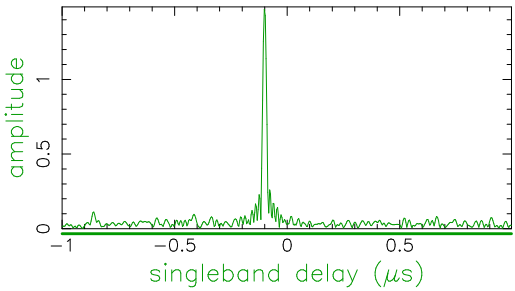
EFLSBERG - GLT, fgroup W, pol LL

multiband delay ( $\mu$ s)

Fringe quality 5

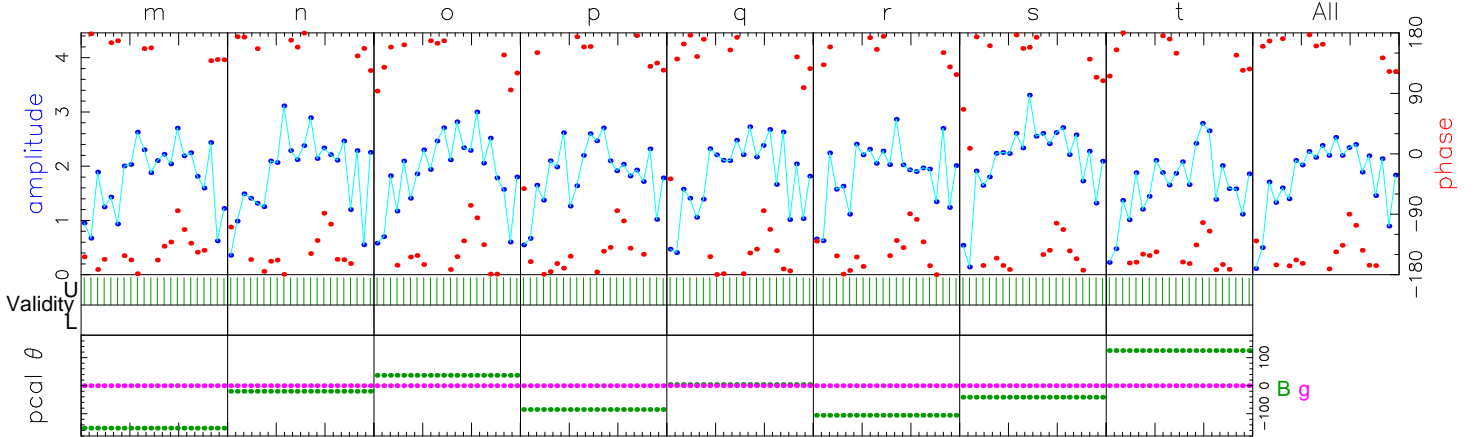


SNR 54.5  
 Int time 179.971  
 Amp 1.486  
 Phase -169.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.100235  
 MBD -0.006232  
 Fringe rate (Hz)  
 0.053250  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171322  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL		

Group delay (usec) (SBD)	9.23230653395E+03	Apriori delay (usec)	9.23240651617E+03	Resid mbdelay (usec)	-6.23222E-03	+/-	2.0E-05
Sband delay (usec)	9.23230628117E+03	Apriori clock (usec)	-3.5716682E+01	Resid sbdelay (usec)	-1.00235E-01	+/-	1.6E-04
Phase delay (usec)	9.23240651072E+03	Apriori clockrate (us/s)	-9.7386097E-07	Resid phdelay (usec)	-5.44976E-06	+/-	6.8E-08
Delay rate (us/s)	-6.76490599325E-01	Apriori rate (us/s)	-6.76491217504E-01	Resid rate (us/s)	6.18180E-07	+/-	6.5E-10
Total phase (deg)		Apriori accel (us/s/s)	-5.00422403041E-05	Resid phase (deg)	-169.0	+/-	2.1

ph/seg (deg)	RMS 36.7	Theor. 4.9	Amplitude Search (1024X32)	1.459	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	47.1	8.6	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)	4.2	3.0	Inc. seg. avg.	1.801	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	6.0	5.2	Inc. frq. avg.	1.472	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 209.4 el 37.7 pa 18.4 g: az 126.1 el 10.0 pa -10.8 u,v (fr/asec) 3849.208 -1916.505 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/Bg..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/Bg.W.16.3MP1KJ

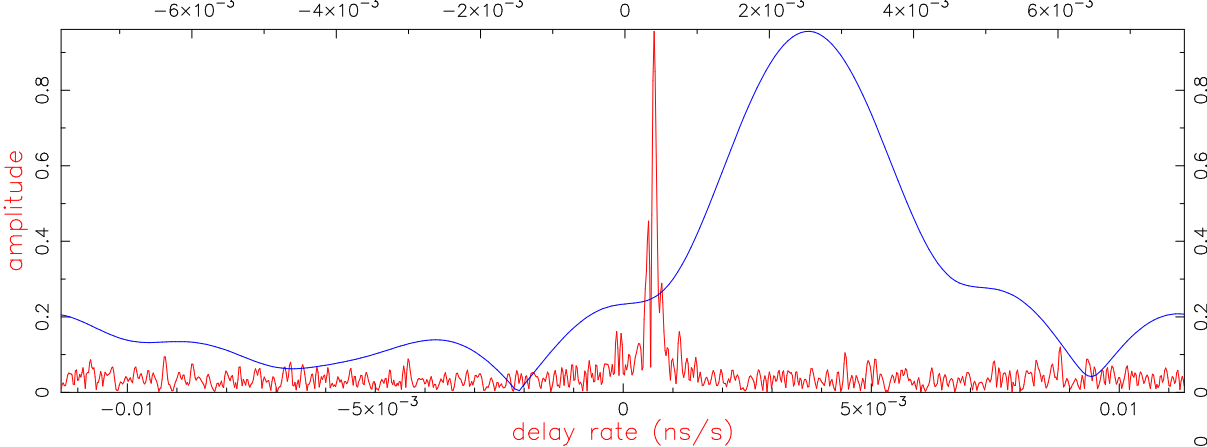
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, Bg

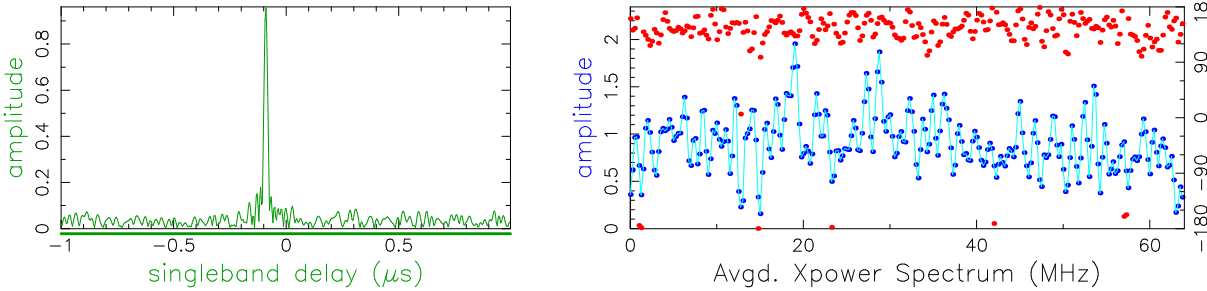
EFLSBERG - GLT, fgroup W, pol RR

multiband delay ( $\mu$ s)

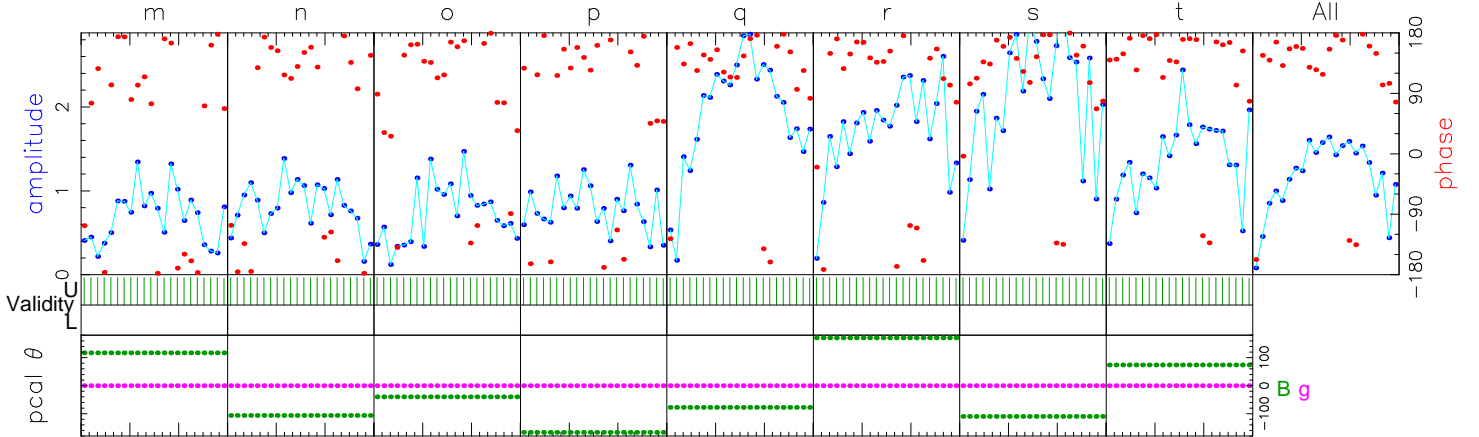


Fringe quality 5  
 Error code G  
 SNR 35.2  
 Int time 179.973  
 Amp 0.961  
 Phase 153.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.090664  
 MBD 0.002524  
 Fringe rate (Hz)  
 0.053257  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171324  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

delay rate (ns/s)



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		
Group delay (usec) (SBD)	9.23231528983E+03					9.23240651617E+03			2.52365E-03	+/- 3.1E-05
Sband delay (usec)	9.23231585267E+03					-3.5716682E+01			-9.06635E-02	+/- 2.4E-04
Phase delay (usec)	9.23240652113E+03					-9.7386097E-07			4.95336E-06	+/- 1.0E-07
Delay rate (us/s)	-6.76490599242E-01					-6.76491217504E-01			6.18262E-07	+/- 1.0E-09
Total phase (deg)			262.8			-5.00422403041E-05			153.6	+/- 3.3
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us										
Data rate(Mb/s): 2048										
nlags: 256 t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
simultaneous interpolator										

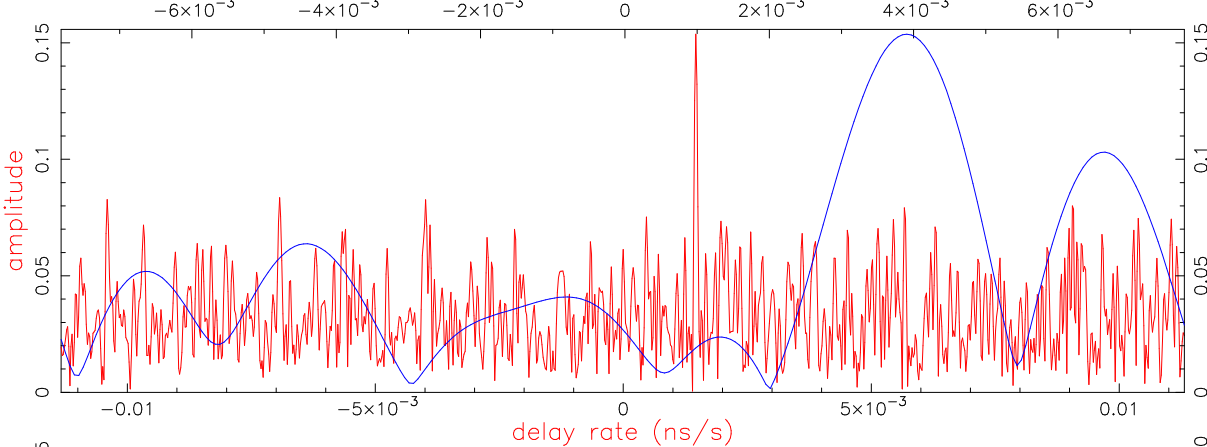
B: az 209.4 el 37.7 pa 18.4      g: az 126.1 el 10.0 pa -10.8      u,v (fr/asec) 3849.208 -1916.505  
 Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/Bg..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/Bg.W.25.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

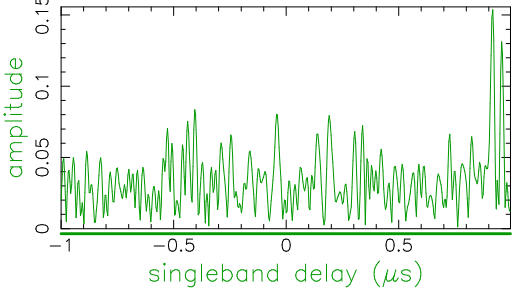
3C273.3MP1KJ, No0618, Bg  
EFLSBERG - GLT, fgroup W, pol LR

multiband delay ( $\mu$ s)

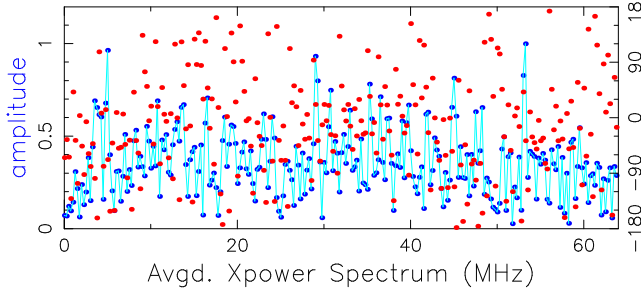


Fringe quality 0

SNR 5.7  
Int time 179.973  
Amp 0.156  
Phase 63.1  
PFD 8.2e-01  
Delays (us)  
SBD 0.916902  
MBD 0.003910  
Fringe rate (Hz) 0.125348  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

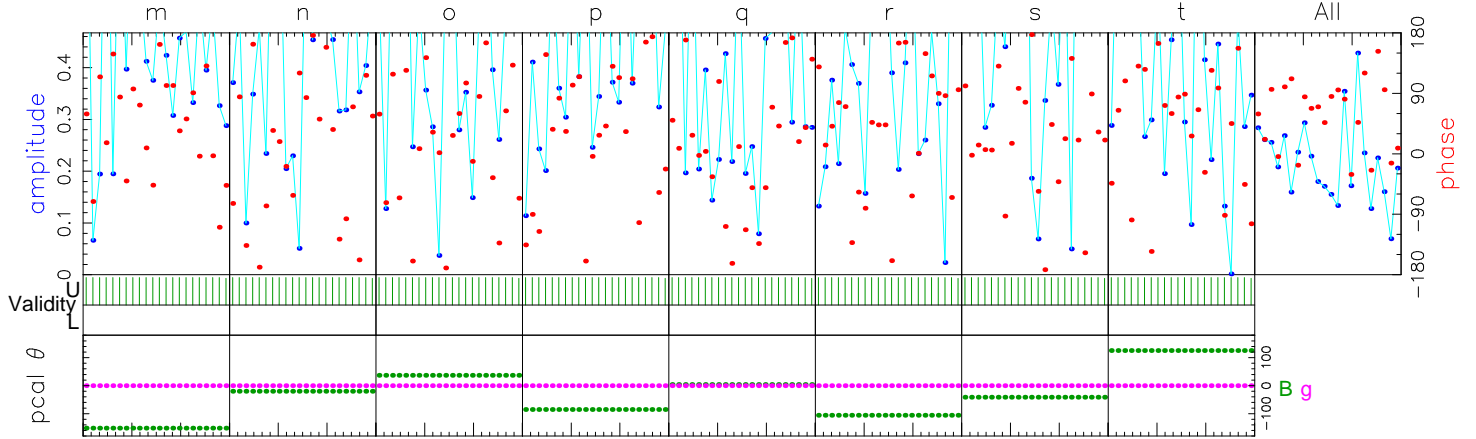


delay rate (ns/s)



Exp. c241b  
Exper # 1234  
Yr:day 2024:110  
Start 234000.00  
Stop 234300.23  
FRT 234134.00  
Corr/FF/build  
2024:359:200643  
2025:041:171326  
2024:113:095956  
RA & Dec (J2000)  
12h29m06.699742s  
+02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
g	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		

Group delay (usec) (SBD)	9.23331667623E+03	Apriori delay (usec)		9.23240651617E+03	Resid mbdelay (usec)		3.91006E-03	+/-	1.9E-04	
Sband delay (usec)	9.23332341792E+03	Apriori clock (usec)		-3.5716682E+01	Resid sbdelay (usec)		9.16902E-01	+/-	1.5E-03	
Phase delay (usec)	9.23240651821E+03	Apriori clockrate (us/s)		-9.7386097E-07	Resid phdelay (usec)		2.03344E-06	+/-	6.5E-07	
Delay rate (us/s)	-6.76489762342E-01	Apriori rate (us/s)		-6.76491217504E-01	Resid rate (us/s)		1.45516E-06	+/-	6.3E-09	
Total phase (deg)		172.2	Apriori accel (us/s/s)		-5.00422403041E-05	Resid phase (deg)		63.1	+/-	20.2

ph/seg (deg)	RMS 51.3	Theor. 47.4	Amplitude Search (1024X32)	0.156 +/- 0.027	0.150	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	65.3	82.6	Interp.	0.000	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	29.6	28.6	Inc. seg. avg.	0.164	0.152	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	40.3	49.8	Inc. frq. avg.	0.152	0.152	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011		
						Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4      g: az 126.1 el 10.0 pa -10.8      u,v (fr/asec) 3849.208 -1916.505      simultaneous interpolator  
Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/Bg..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/Bg.W.28.3MP1KJ

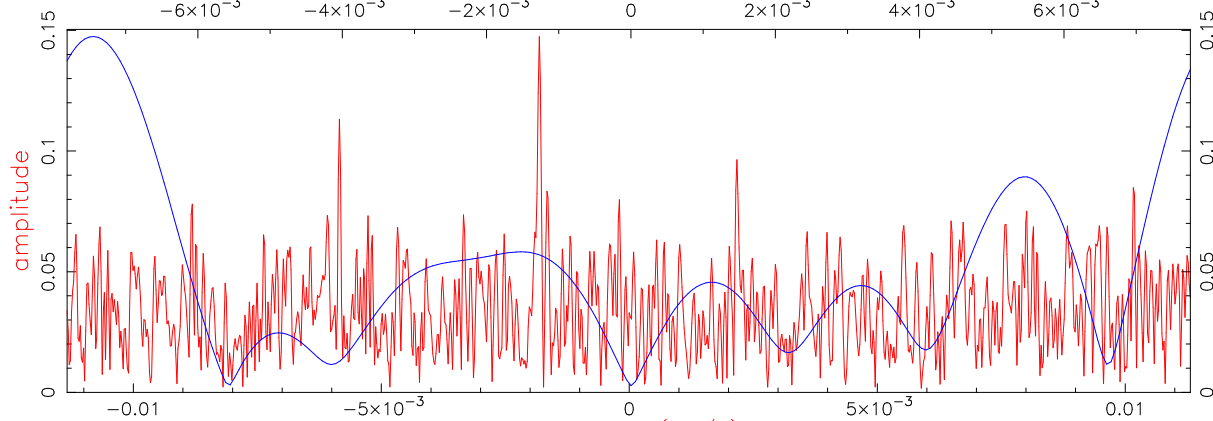
# Mk4/DiFX fourfit 3.25 rev 0

aux01

# 3C273.3MP1KJ, No0618, Bg

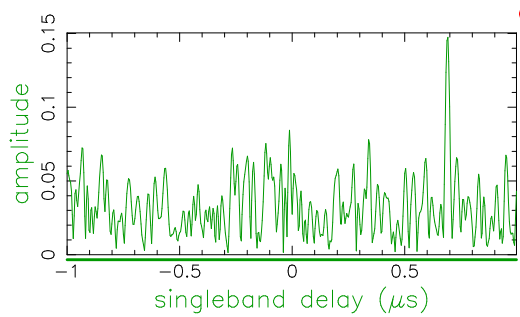
EFLSBERG - GLT, fgroup W, pol RL

multiband delay ( $\mu$ s)

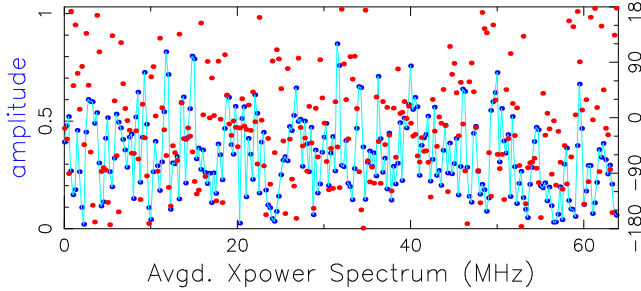


Fringe quality 0

SNR 5.5  
 Int time 179.971  
 Amp 0.150  
 Phase 78.1  
 PFD 1.0e+00  
 Delays (us)  
 SBD 0.689925  
 MBD -0.007415  
 Fringe rate (Hz)  
 -0.156216  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

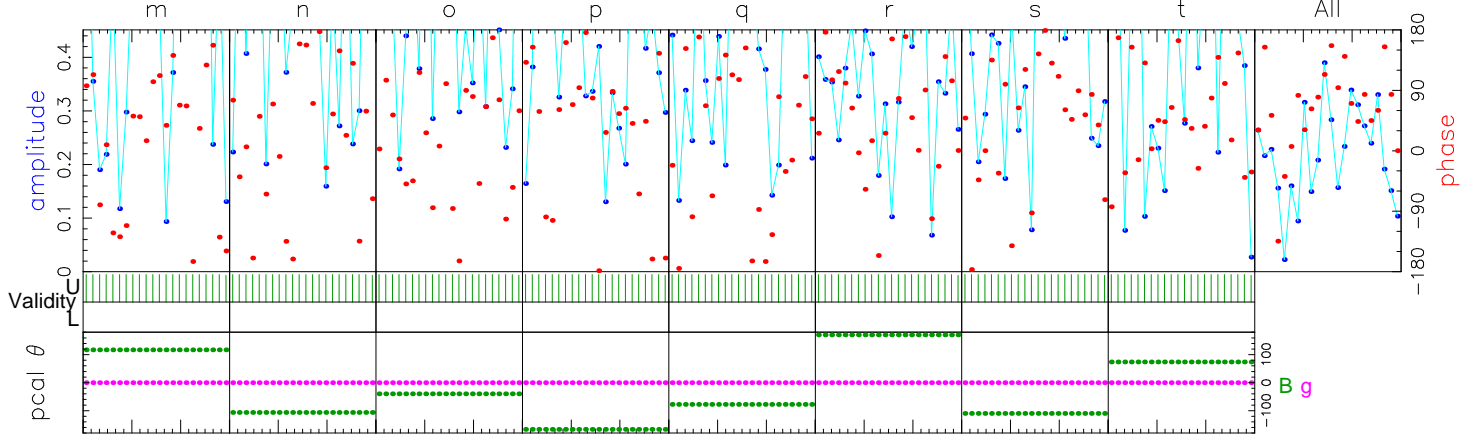


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171329  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	94.1	66.6	30.3	101.4	126.4	65.5	96.1	54.0	Phase	78.1
	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	421.4	191.6	18.6	16.1	344.8	479.7	163.2	70.2	Sbd box	433.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:g	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	9.23310222572E+03	Apriori delay (usec)	9.23240651617E+03	Resid mbdelay (usec)	-7.41546E-03	+/-	2.0E-04
Sband delay (usec)	9.23309644117E+03	Apriori clock (usec)	-3.5716682E+01	Resid sbdelay (usec)	6.89925E-01	+/-	1.6E-03
Phase delay (usec)	9.23240651869E+03	Apriori clockrate (us/s)	-9.7386097E-07	Resid phdelay (usec)	2.51985E-06	+/-	6.8E-07
Delay rate (us/s)	-6.76493031014E-01	Apriori rate (us/s)	-6.76491217504E-01	Resid rate (us/s)	-1.81351E-06	+/-	6.5E-09
Total phase (deg)	187.3	Apriori accel (us/s/s)	-5.00422403041E-05	Resid phase (deg)	78.1	+/-	21.0

ph/seg (deg)	59.4	RMS	49.2	Theor.	59.4	Amplitude	0.150 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.0		76.0		76.0	Search (1024X32)	0.145	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	33.2		33.2		33.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.011	0.011
amp/frq (%)	33.2		33.2		33.2	Inc. seg. avg.	0.162	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us			ion window (TEC)	0.00	0.00
			33.2		33.2	Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite			

B: az 209.4 el 37.7 pa 18.4      g: az 126.1 el 10.0 pa -10.8      u,v (fr/asec) 3849.208 -1916.505      simultaneous interpolator  
 Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/Bg..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/Bg.W.35.3MP1KJ

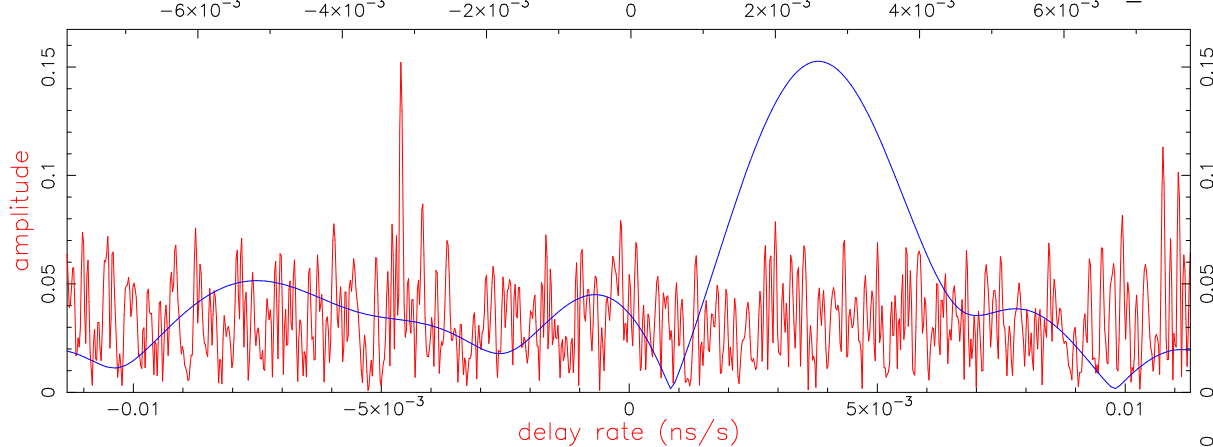
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BG

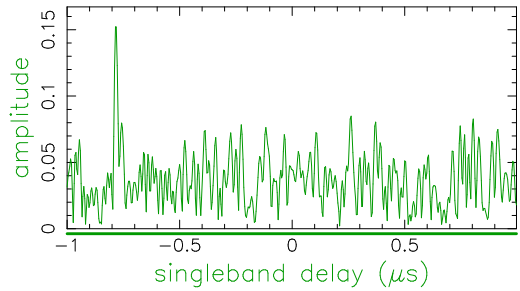
EFLSBERG - GBT\_COLD, fgroup W, pol LL

multiband delay ( $\mu$ s)

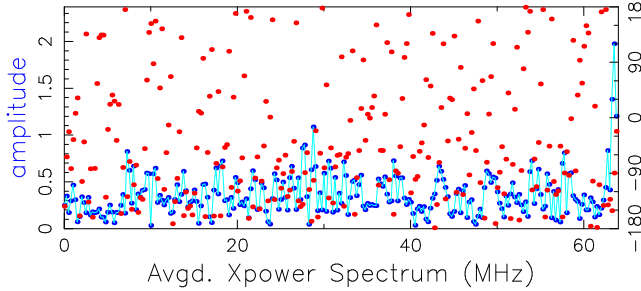


Fringe quality 0

SNR 5.6  
 Int time 170.784  
 Amp 0.167  
 Phase -159.3  
 PFD 9.4e-01  
 Delays (us)  
 SBD -0.783220  
 MBD 0.002694  
 Fringe rate (Hz)  
 -0.396893  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

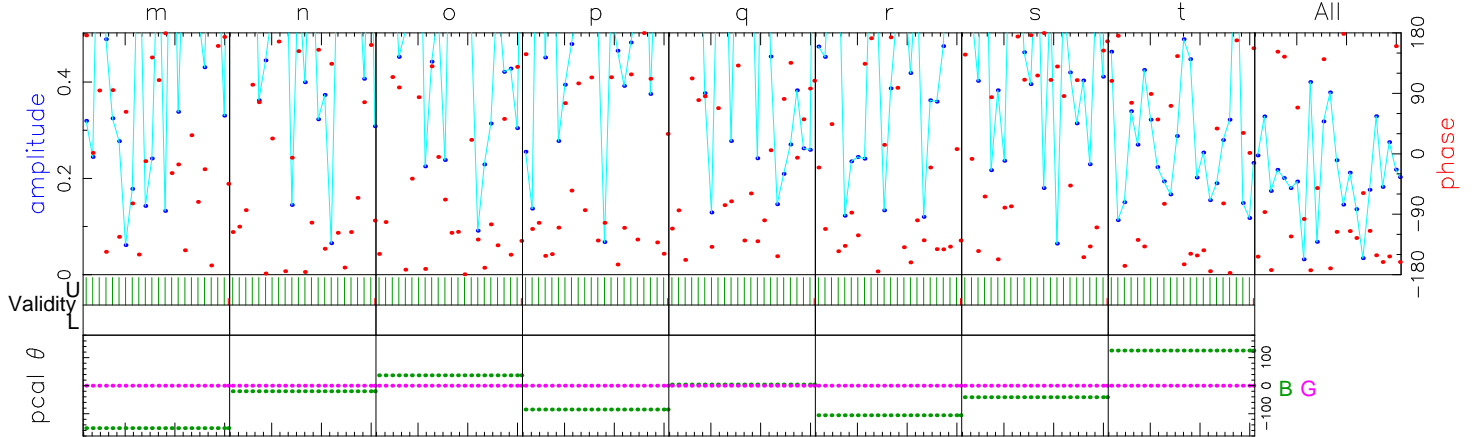


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234009.22  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171339  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 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
	-166.2	-159.2	-155.0	-154.8	-144.3	-139.5	-177.9	173.3	Phase	-159.3
	0.1	0.3	0.1	0.3	0.1	0.2	0.2	0.1	Ampl.	0.1
	266.0	55.9	448.9	341.0	168.9	284.4	185.6	485.8	Sbd box	56.5
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	5.08412521872E+03	Apriori delay (usec)	5.08490377503E+03	Resid mbdelay (usec)	2.69370E-03	+/-	1.9E-04
Sband delay (usec)	5.08412055528E+03	Apriori clock (usec)	-2.0765087E+01	Resid sbdelay (usec)	-7.83220E-01	+/-	1.5E-03
Phase delay (usec)	5.08490376989E+03	Apriori clockrate (us/s)	-2.5992208E-07	Resid phdelay (usec)	-5.13781E-06	+/-	6.6E-07
Delay rate (us/s)	-1.47816102832E+00	Apriori rate (us/s)	-1.47815642079E+00	Resid rate (us/s)	-4.60753E-06	+/-	6.7E-09
Total phase (deg)		Apriori accel (us/s/s)	-2.65812947727E-05	Resid phase (deg)	-159.3	+/-	20.5

ph/seg (deg)	55.6	RMS	49.2	Theor.	55.6	Amplitude	0.167 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.6		71.6		71.6	Search (1024X32)	0.151	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	17.3		17.3		17.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.4		45.4		45.4	Inc. seg. avg.	0.167	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags:	256	ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.149	Data rate(Mb/s):	2048	t_cohere	infinite			

B: az 209.4 el 37.7 pa 18.4 G: az 105.4 el 21.4 pa -49.1 u,v (fr/asec) 8456.346 1257.922 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//BG..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//BG.W.90.3MP1KJ

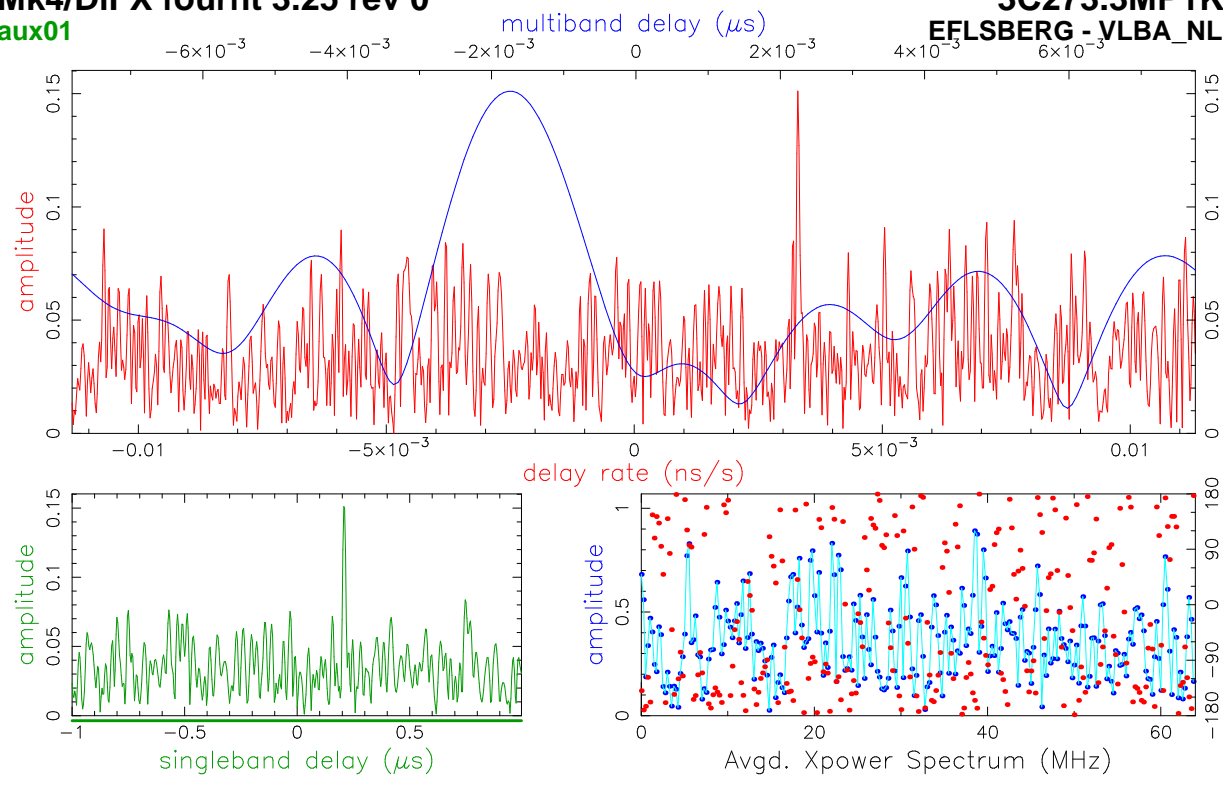


Mk4/DiFX fourfit 3.25 rev 0

aux01

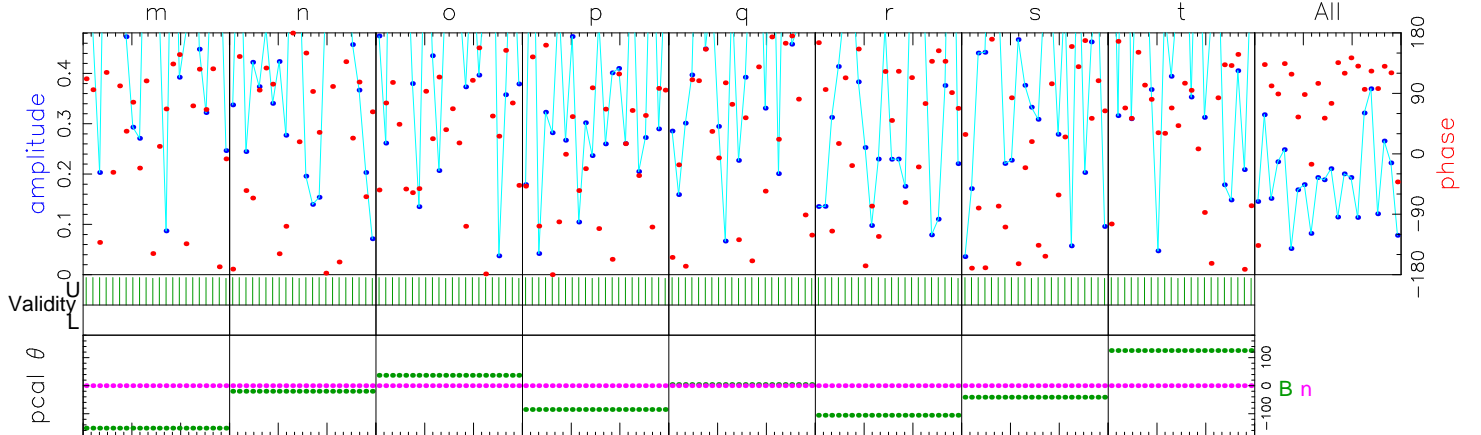
3C273.3MP1KJ, No0618, Bn

EFLSBERG - VLBA\_NL, fgroup W, pol LL



Fringe quality 0  
 SNR 5.7  
 Int time 179.684  
 Amp 0.160  
 Phase 110.0  
 PFD 8.2e-01  
 Delays (us)  
 SBD 0.208825  
 MBD -0.001727  
 Fringe rate (Hz) 0.283804  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build 2024:359:200643  
 2025:041:171327  
 2024:113:095956  
 RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	
	109.5	141.7	64.4	117.8	148.6	90.0	163.6	90.3	Phase	110.0	
	0.3	0.2	0.3	0.1	0.2	0.1	0.1	0.2	Ampl.	0.2	
	310.4	311.9	365.4	273.9	205.0	430.3	364.6	7.2	Sbd box	310.5	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
n	0	0	0	0	0	0	0	0	PC freqs		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:n	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	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		
									Tracks		
Group delay (usec) (SBD)	8.43369810212E+03		Apriori delay (usec)		8.43349670387E+03		Resid mbdelay (usec)		-1.72675E-03	+/- 1.9E-04	
Sband delay (usec)	8.43370552937E+03		Apriori clock (usec)		-3.5099358E+01		Resid sbdelay (usec)		2.08825E-01	+/- 1.5E-03	
Phase delay (usec)	8.43349670742E+03		Apriori clockrate (us/s)		-4.8679897E-07		Resid phdelay (usec)		3.54680E-06	+/- 6.5E-07	
Delay rate (us/s)	-1.50963463224E+00		Apriori rate (us/s)		-1.50963792692E+00		Resid rate (us/s)		3.29468E-06	+/- 6.3E-09	
Total phase (deg)			Apriori accel (us/s/s)		-4.46281970365E-05		Resid phase (deg)		110.0	+/- 20.2	
	RMS	Theor.	Amplitude	0.160 +/- 0.028		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	54.0	47.4	Search (1024X32)	0.148		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	56.4	82.7	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	37.2	28.6	Inc. seg. avg.	0.146		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	48.6	49.9	Inc. frq. avg.	0.162		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 209.4 el 37.7 pa 18.4	n: az 98.3 el 12.0 pa -47.6		u, v (fr/asec) 8626.944 816.139						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0618/Bn..3MP1KJ		Output file: /Exps/c241b/v2/3mm/1234/No0618/Bn.W.30.3MP1KJ								

# Mk4/DiFX fourfit 3.25 rev 0

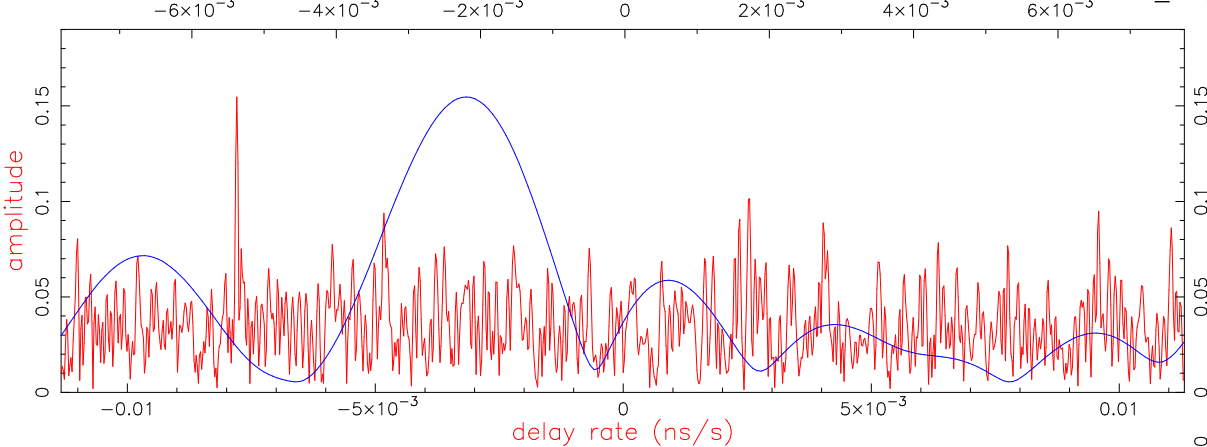
aux01

# 3C273.3MP1KJ, No0618, Bn

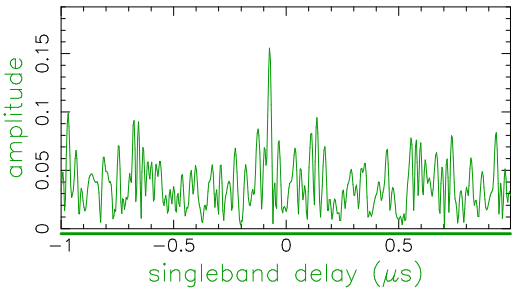
EFLSBERG - VLBA\_NL, fgroup W, pol RR

multiband delay ( $\mu$ s)

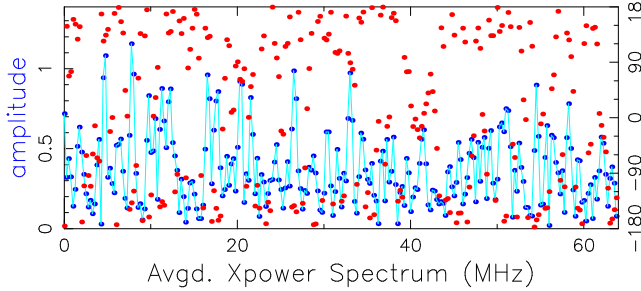
Fringe quality 0



SNR 5.7  
 Int time 179.684  
 Amp 0.190  
 Phase 60.1  
 PFD 8.0e-01  
 Delays (us)  
 SBD -0.073601  
 MBD -0.002189  
 Fringe rate (Hz)  
 -0.672856  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

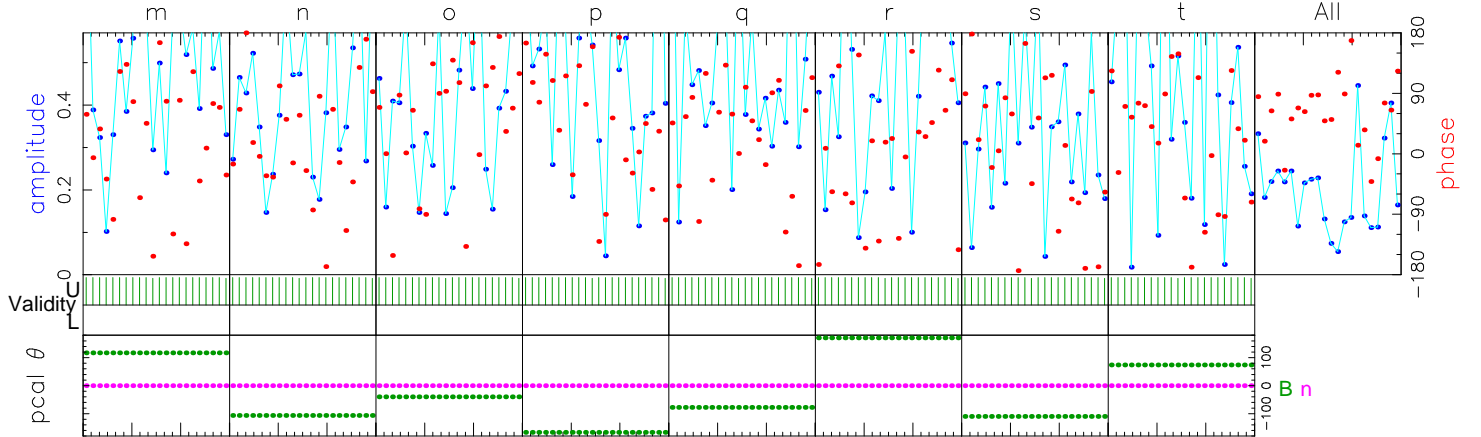


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171329  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

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



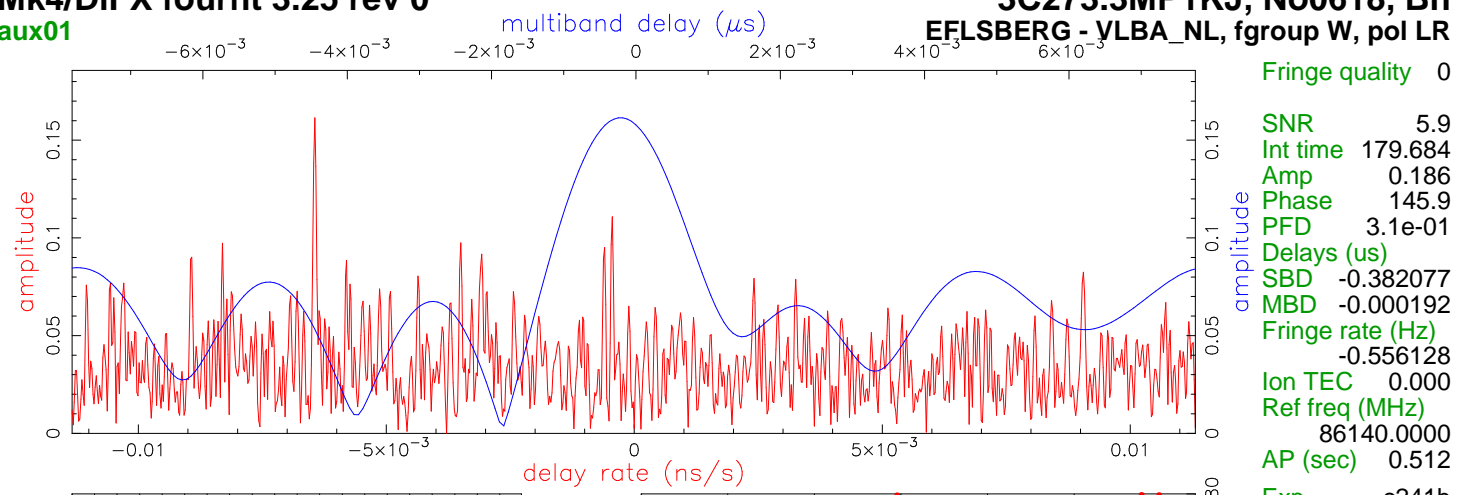
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
B	0	0	0	0	0	0	0	0			
n	0	0	0	0	0	0	0	0			
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:n	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec) (SBD)	8.43341639024E+03					8.43349670387E+03			Resid mbdelay (usec)	-2.18864E-03	+/- 1.9E-04
Sband delay (usec)	8.43342310237E+03					-3.5099358E+01			Resid sbdelay (usec)	-7.36015E-02	+/- 1.5E-03
Phase delay (usec)	8.43349670581E+03					-4.8679897E-07			Resid phdelay (usec)	1.93652E-06	+/- 6.5E-07
Delay rate (us/s)	-1.50964573811E+00					-1.50963792692E+00			Resid rate (us/s)	-7.81119E-06	+/- 6.2E-09
Total phase (deg)			85.8			-4.46281970365E-05			Resid phase (deg)	60.1	+/- 20.2
ph/seg (deg)	47.8	47.3							PCal mode: MANUAL, MANUAL		
amp/seg (%)	71.5	82.5							PCal rate: 0.000E+00, 0.000E+00 (us/s)		
ph/frq (deg)	26.7	28.5							Bits/sample: 2x2		
amp/frq (%)	30.8	49.8							SampCntNorm: enabled		
									Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		
									Data rate(Mb/s): 2048		
									nlags: 256 t_cohere infinite		
B: az 209.4 el 37.7 pa 18.4		n: az 98.3 el 12.0 pa -47.6				u,v (fr/asec) 8626.944 816.139					simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0618/Bn..3MP1KJ				Output file: /Exps/c241b/v2/3mm/1234/No0618/Bn.W.39.3MP1KJ					

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, Bn

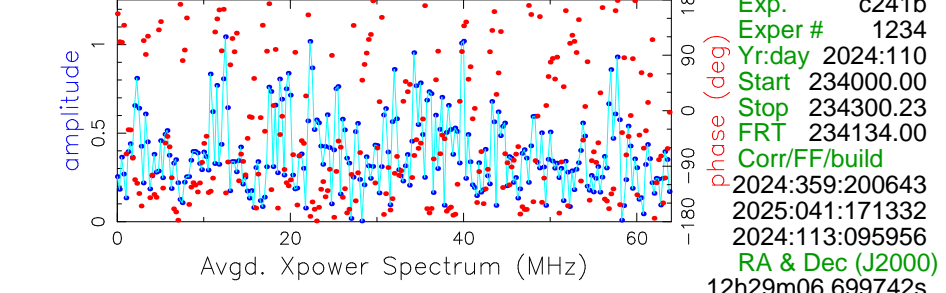
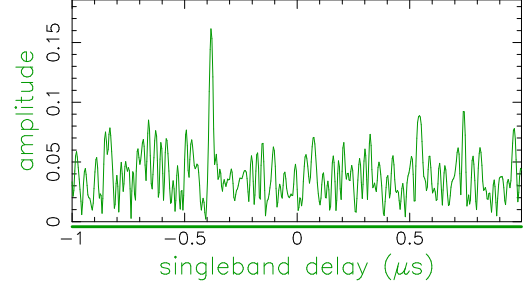
EFLSBERG - VLBA\_NL, fgroup W, pol LR



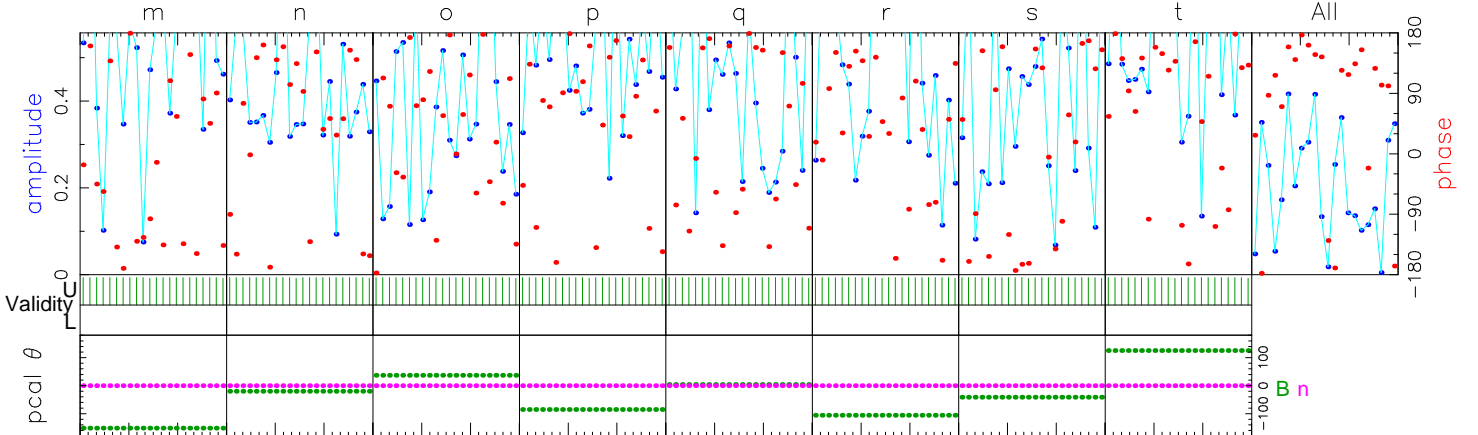
Fringe quality 0

SNR 5.9  
 Int time 179.684  
 Amp 0.186  
 Phase 145.9  
 PFD 3.1e-01  
 Delays (us)  
 SBD -0.382077  
 MBD -0.000192  
 Fringe rate (Hz)  
 -0.556128  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171332  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
n	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:n	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
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)	8.43312151223E+03	Apriori delay (usec)	8.43349670387E+03	Resid mbdelay (usec)	-1.91641E-04	+/-	1.8E-04
Sband delay (usec)	8.43311462662E+03	Apriori clock (usec)	-3.5099358E+01	Resid sbdelay (usec)	-3.82077E-01	+/-	1.5E-03
Phase delay (usec)	8.43349670858E+03	Apriori clockrate (us/s)	-4.8679897E-07	Resid phdelay (usec)	4.70516E-06	+/-	6.2E-07
Delay rate (us/s)	-1.50964438301E+00	Apriori rate (us/s)	-1.50963792692E+00	Resid rate (us/s)	-6.45609E-06	+/-	6.0E-09
Total phase (deg)	171.7	Apriori accel (us/s/s)	-4.46281970365E-05	Resid phase (deg)	145.9	+/-	19.3

ph/seg (deg) 57.2 45.3 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 82.7 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 57.2 27.3 Inc. seg. avg. 0.182 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 50.2 47.7 Inc. frq. avg. 0.205 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 209.4 el 37.7 pa 18.4 n: az 98.3 el 12.0 pa -47.6 u,v (fr/asec) 8626.944 816.139 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/Bn..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/Bn.W.52.3MP1KJ

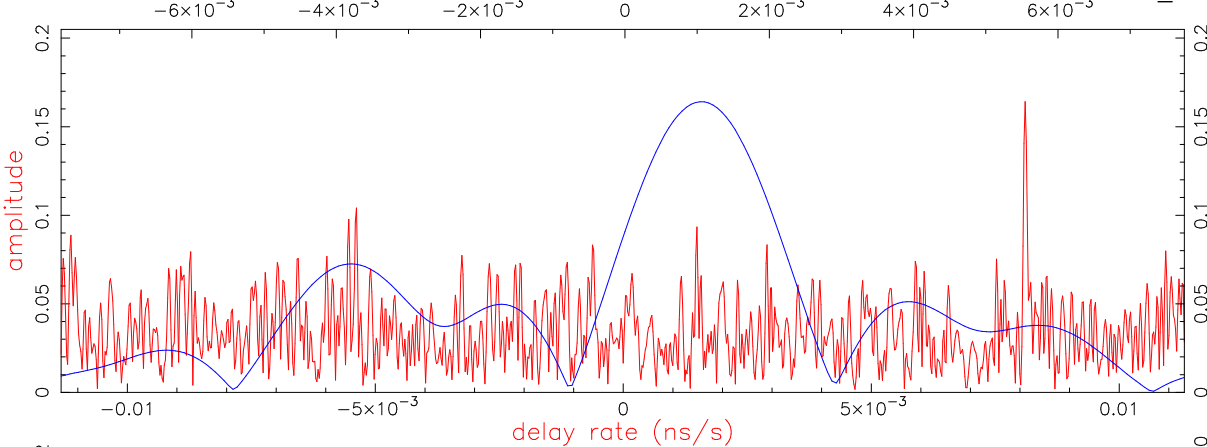
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, Bn

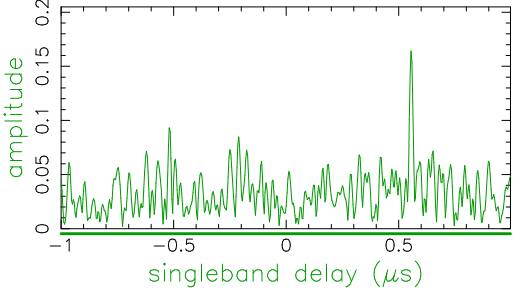
EFLSBERG - VLBA\_NL, fgroup W, pol RL

multiband delay ( $\mu$ s)

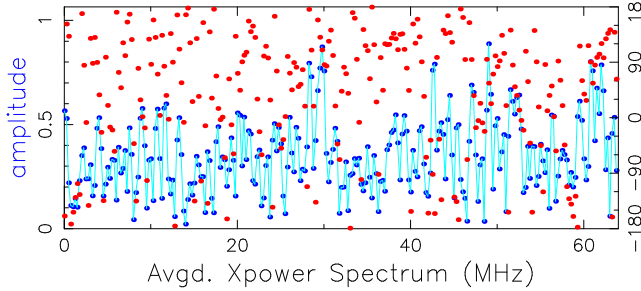


Fringe quality 0

SNR 6.0  
 Int time 179.684  
 Amp 0.205  
 Phase 1.4  
 PFD 2.0e-01  
 Delays (us)  
 SBD 0.555220  
 MBD 0.001073  
 Fringe rate (Hz) 0.699075  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

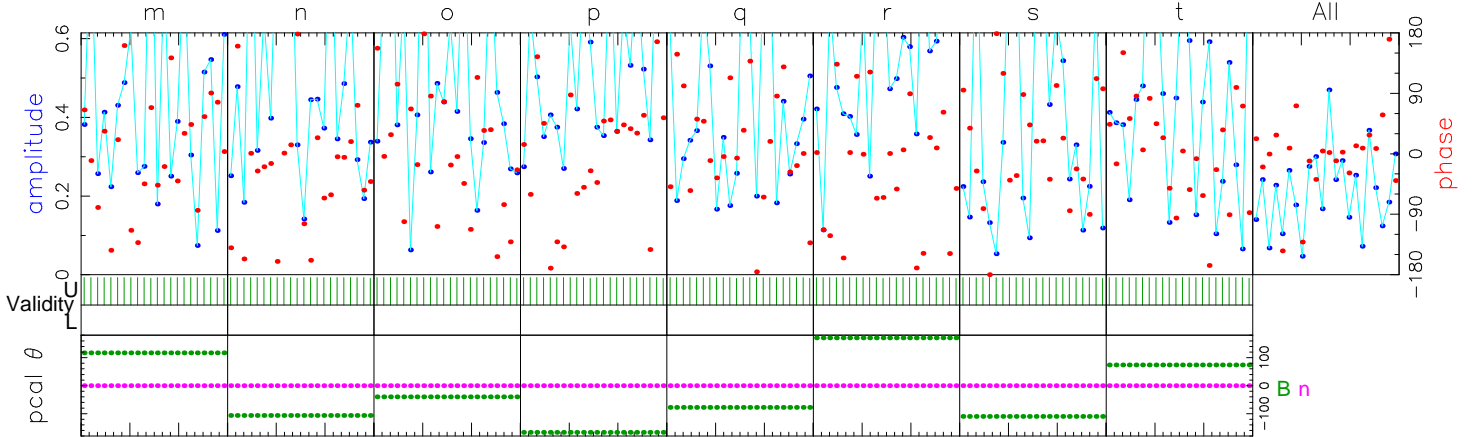


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171335  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
n	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:n	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	8.43404465216E+03	Apriori delay (usec)	8.43349670387E+03	Resid mbdelay (usec)	1.07329E-03	+/-	1.8E-04
Sband delay (usec)	8.43405192362E+03	Apriori clock (usec)	-3.5099358E+01	Resid sbdelay (usec)	5.55220E-01	+/-	1.4E-03
Phase delay (usec)	8.43349670392E+03	Apriori clockrate (us/s)	-4.8679897E-07	Resid phdelay (usec)	4.44233E-08	+/-	6.1E-07
Delay rate (us/s)	-1.50962981135E+00	Apriori rate (us/s)	-1.50963792692E+00	Resid rate (us/s)	8.11557E-06	+/-	5.9E-09
Total phase (deg)	27.1	Apriori accel (us/s/s)	-4.46281970365E-05	Resid phase (deg)	1.4	+/-	19.0

ph/seg (deg)	61.3	Theor.	44.6	Amplitude	0.205 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	68.2	Search (1024X32)	0.157	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	25.9	Inc. seg. avg.	0.204	Inc. frq. avg.	0.198	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	21.4	Inc. frq. avg.	0.198			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4 n: az 98.3 el 12.0 pa -47.6 u,v (fr/asec) 8626.944 816.139 simultaneous interpolator

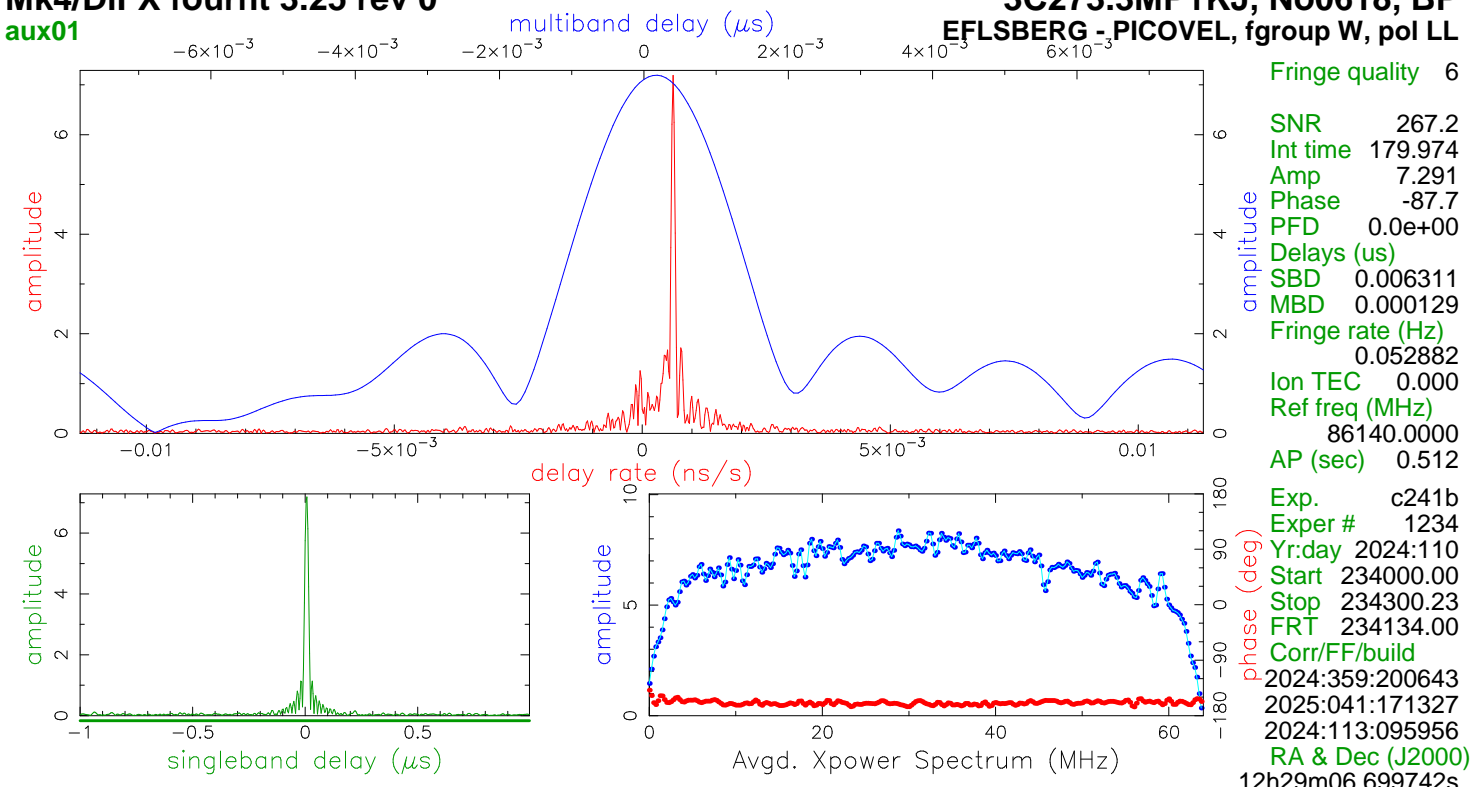
Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/Bn..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/Bn.W.67.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BP

EFLSBERG - PICOVEL, fgroup W, pol LL

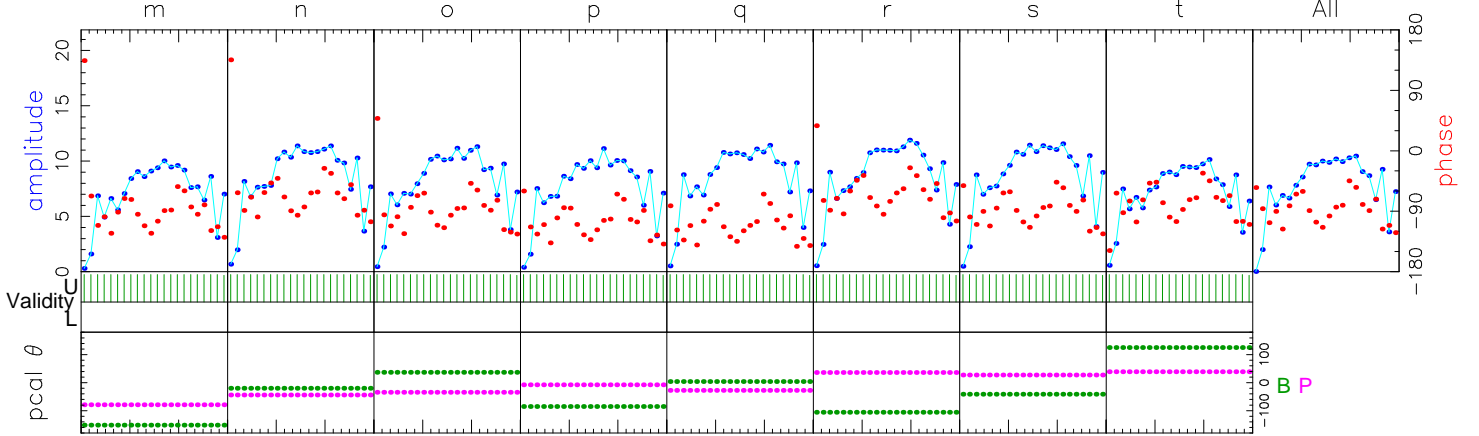


Fringe quality 6

SNR 267.2  
 Int time 179.974  
 Amp 7.291  
 Phase -87.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.006311  
 MBD 0.000129  
 Fringe rate (Hz)  
 0.052882  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171327  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-94.0	-69.0	-90.1	-106.9	-110.9	-67.0	-88.8	-76.6	Phase	-87.7
	6.6	7.8	7.5	7.2	7.8	8.0	8.1	6.7	Ampl.	7.5
	257.3	258.2	258.8	259.2	259.5	259.0	259.1	257.8	Sbd box	258.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	-151:-79	-20:-44	37:-34	-85:-8	4:-28	-106:36	-41:27	125:39	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.02988959581E+03	Apriori delay (usec)	-4.02988972462E+03	Resid mbdelay (usec)	1.28808E-04	+/-	4.1E-06
Sband delay (usec)	-4.02988341337E+03	Apriori clock (usec)	-3.4498245E+01	Resid sbdelay (usec)	6.31125E-03	+/-	3.2E-05
Phase delay (usec)	-4.02988972745E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	-2.82910E-06	+/-	1.4E-08
Delay rate (us/s)	-1.11728437754E-01	Apriori rate (us/s)	-1.11729051657E-01	Resid rate (us/s)	6.13903E-07	+/-	1.3E-10
Total phase (deg)	-44.1	Apriori accel (us/s/s)	2.18833574603E-05	Resid phase (deg)	-87.7	+/-	0.4

ph/seg (deg)	21.9	Theor.	1.0	Amplitude	7.291 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	38.0	Search (1024X32)	7.035	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	17.6	Inc. seg. avg.	7.749	Inc. frq. avg.	7.465	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	7.8	Inc. frq. avg.	7.465	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
									ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) 652.335 1554.587 simultaneous interpolator

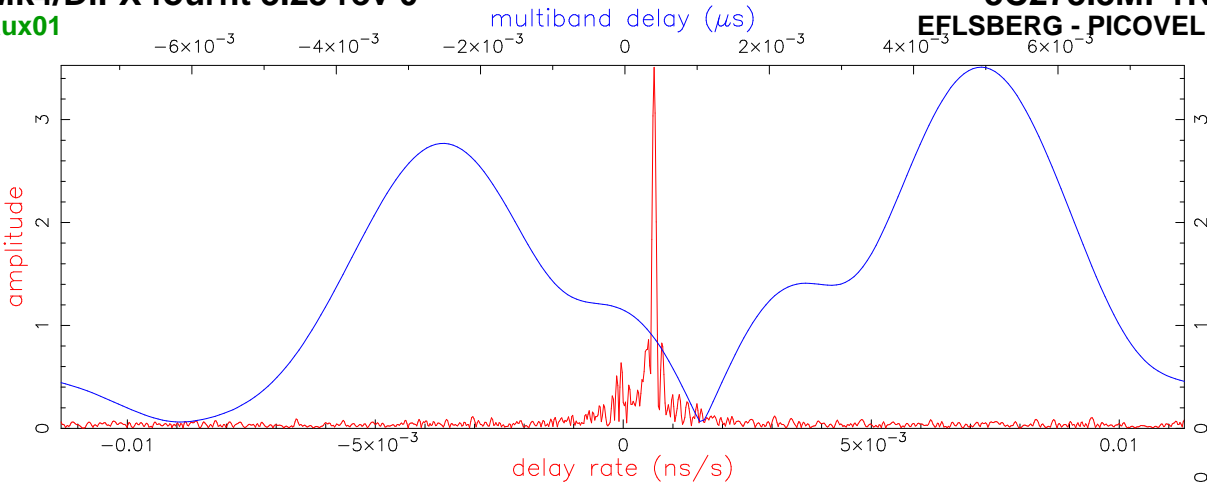
Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BP.W.31.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

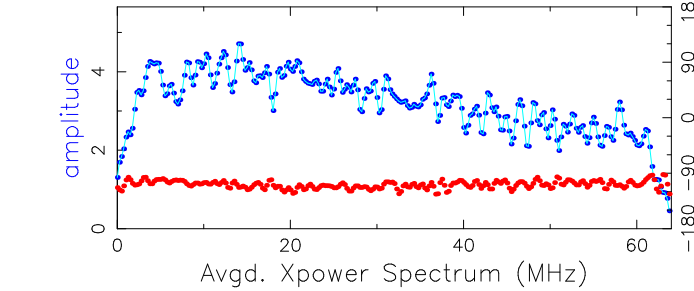
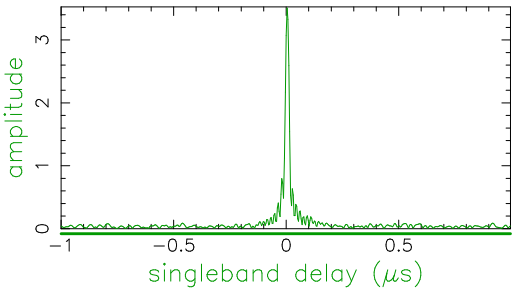
aux01

3C273.3MP1KJ, No0618, BP

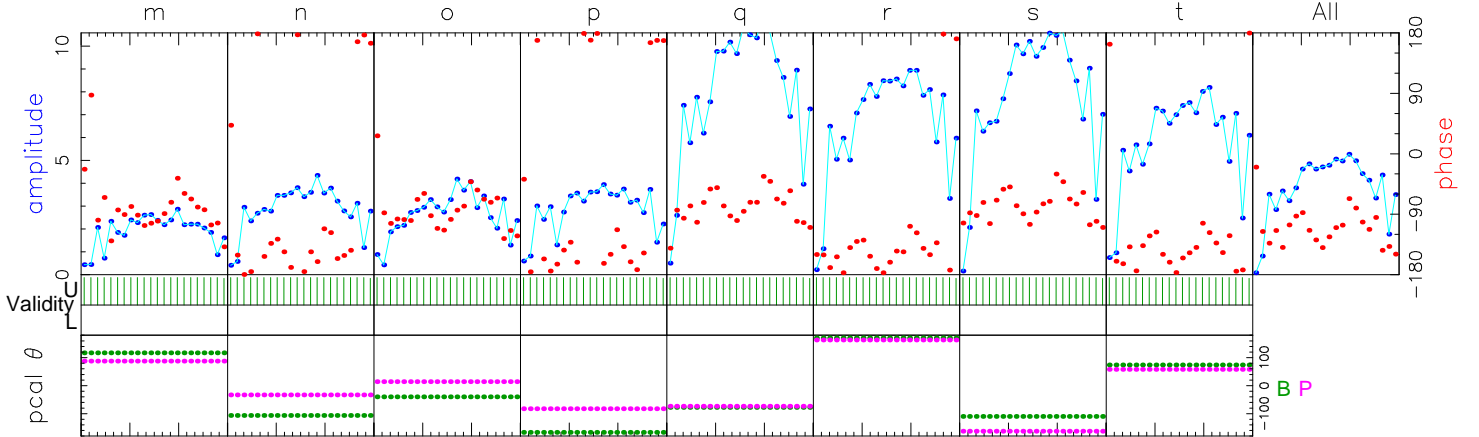
EFLSBERG - PICOVEL, fgroup W, pol RR



Fringe quality 2  
 Error code G  
 SNR 129.2  
 Int time 179.974  
 Amp 3.527  
 Phase -112.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.004736  
 MBD 0.004965  
 Fringe rate (Hz)  
 0.052867  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171330  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-87.6	-157.6	-85.1	-163.8	-75.3	-150.7	-75.2	-145.6	Phase	-112.3
	1.7	2.6	2.4	2.6	7.4	6.1	7.2	5.4	Ampl.	4.4
	255.4	257.0	257.6	257.7	258.2	257.4	258.0	256.3	Sbd box	258.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	118:88	-106:-33	-40:15	-167:-82	-77:-74	171:163	-110:-163	74:58	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -4.02988475962E+03 Apriori delay (usec) -4.02988972462E+03 Resid mbdelay (usec) 4.96500E-03 +/- 8.4E-06  
 Sband delay (usec) -4.02988498812E+03 Apriori clock (usec) -3.4498245E+01 Resid sbdelay (usec) 4.73650E-03 +/- 6.7E-05  
 Phase delay (usec) -4.02988972824E+03 Apriori clockrate (us/s) -7.8777609E-07 Resid phdelay (usec) -3.62256E-06 +/- 2.9E-08  
 Delay rate (us/s) -1.11728437926E-01 Apriori rate (us/s) -1.11729051657E-01 Resid rate (us/s) 6.13731E-07 +/- 2.7E-10  
 Total phase (deg) -68.7 Apriori accel (us/s/s) 2.18833574603E-05 Resid phase (deg) -112.3 +/- 0.9

RMS Theor. Amplitude 3.527 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 28.9 2.1 Search (1024X32) 3.445 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 39.1 3.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 43.5 1.3 Inc. seg. avg. 3.796 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 67.5 2.2 Inc. frq. avg. 4.429 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 209.4 el 37.7 pa 18.4 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) 652.335 1554.587 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BP.W.42.3MP1KJ

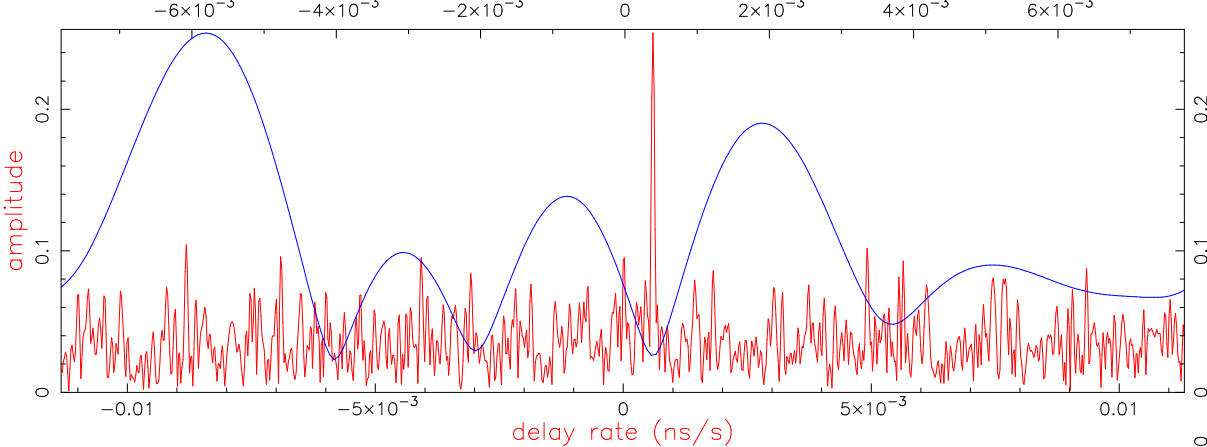
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BP

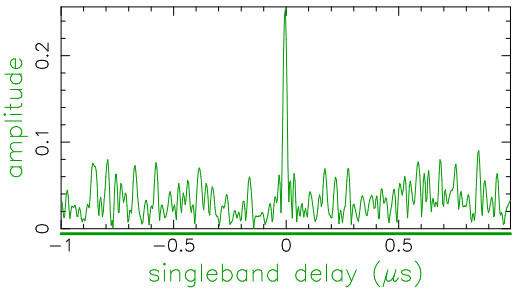
EFLSBERG - PICOVEL, fgroup W, pol LR

multiband delay ( $\mu$ s)

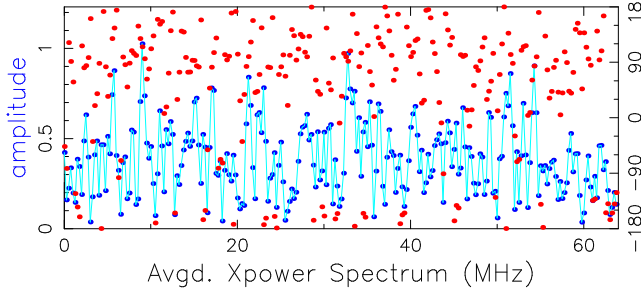


Fringe quality 9

SNR 9.4  
 Int time 179.974  
 Amp 0.256  
 Phase 119.8  
 PFD 1.1e-12  
 Delays (us)  
 SBD -0.005180  
 MBD -0.005812  
 Fringe rate (Hz) 0.052005  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

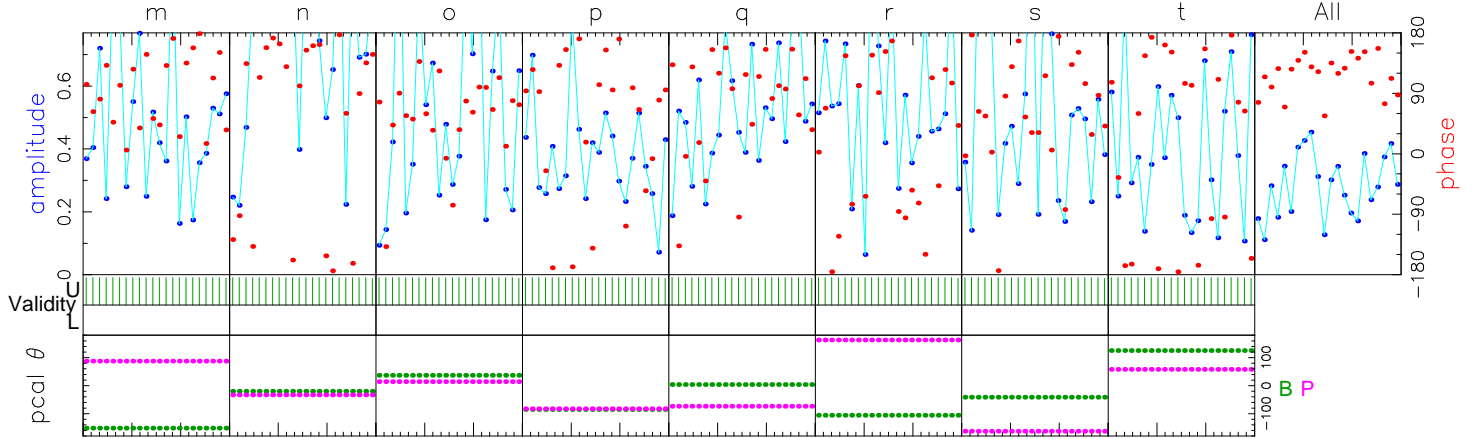


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build 2024:359:200643  
 2025:041:171332  
 2024:113:095956  
 RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	-151:88	-20:-33	37:15	-85:-82	4:-74	-106:163	-41:-163	125:58		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-4.02989553692E+03	Apriori delay (usec)	-4.02988972462E+03	Resid mbdelay (usec)	-5.81230E-03	+/-	1.2E-04
Sband delay (usec)	-4.02989490437E+03	Apriori clock (usec)	-3.4498245E+01	Resid sbdelay (usec)	-5.17975E-03	+/-	9.2E-04
Phase delay (usec)	-4.02988972076E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	3.86268E-06	+/-	3.9E-07
Delay rate (us/s)	-1.11728447925E-01	Apriori rate (us/s)	-1.11729051657E-01	Resid rate (us/s)	6.03732E-07	+/-	3.8E-09
Total phase (deg)	-196.6	Apriori accel (us/s/s)	2.18833574603E-05	Resid phase (deg)	119.8	+/-	12.2

ph/seg (deg)	28.6	Theor.	28.6	Amplitude	0.256 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	40.3		49.9	Search (1024X32)	0.248	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	42.4		17.2	Inc. seg. avg.	0.254	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	58.0		30.1	Inc. frq. avg.	0.311	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) 652.335 1554.587 simultaneous interpolator

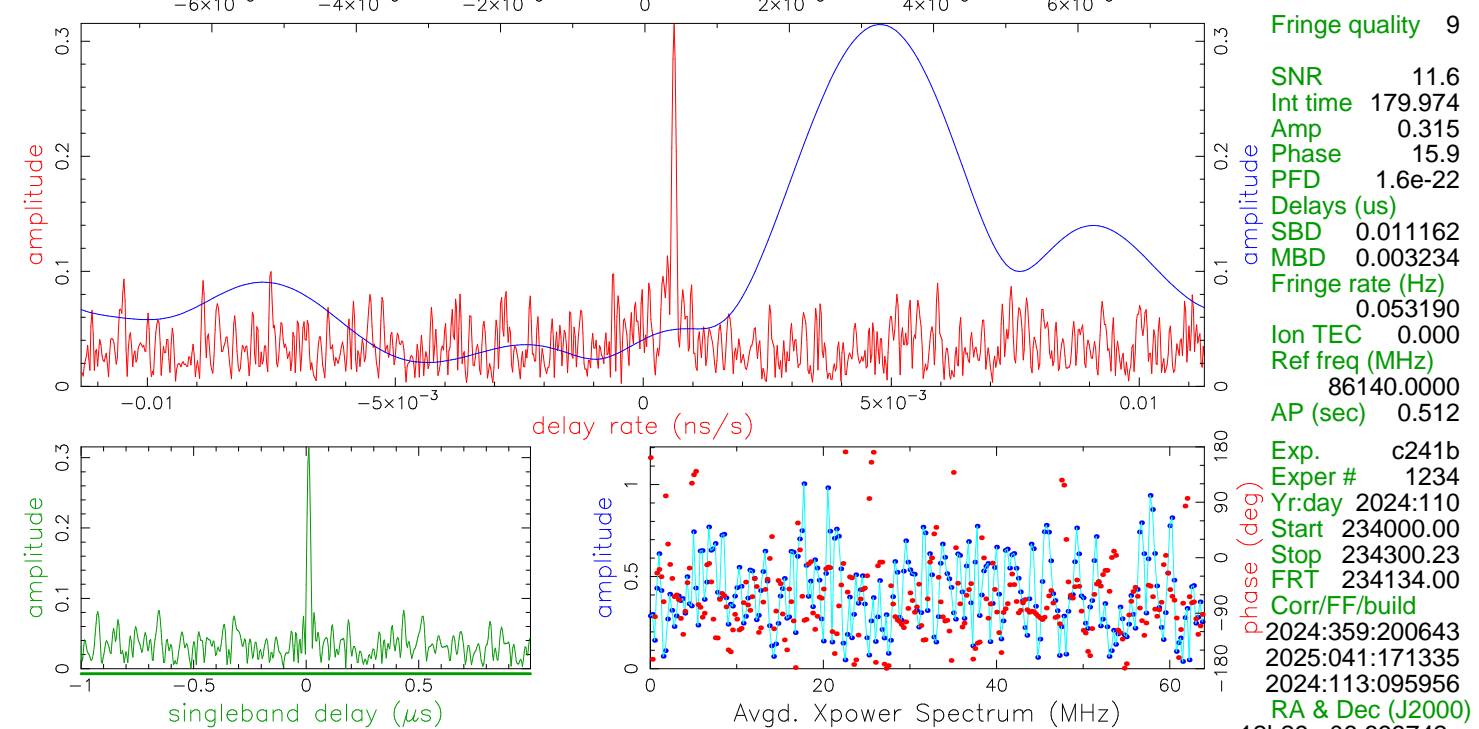
Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BP.W.54.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

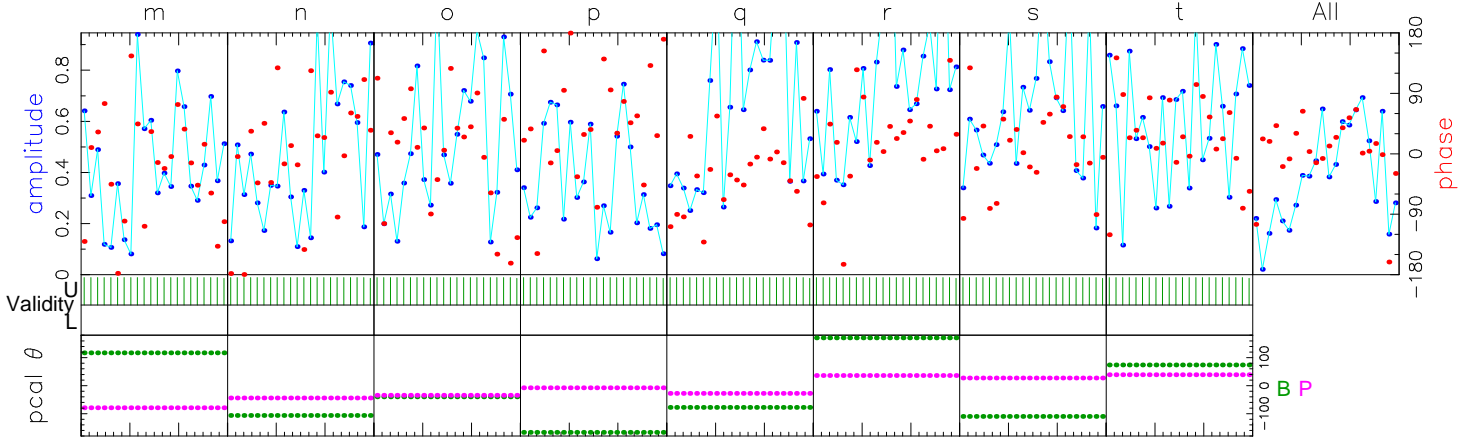
aux01

3C273.3MP1KJ, No0618, BP

EFLSBERG - PICOVEL, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-6.2	29.8	31.9	46.3	-21.0	26.8	16.7	23.0	Phase	15.9
	0.2	0.3	0.2	0.2	0.5	0.6	0.4	0.3	Ampl.	0.3
	181.0	367.8	465.7	318.8	260.6	259.9	260.7	259.9	Sbd box	259.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	118:-79	-106:-44	-40:-34	-167:-8	-77:-28	171:36	-110:27	74:39	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.02987086591E+03	Apriori delay (usec)	-4.02988972462E+03	Resid mbdelay (usec)	3.23371E-03	+/-	9.4E-05
Sband delay (usec)	-4.02987856237E+03	Apriori clock (usec)	-3.4498245E+01	Resid sbdelay (usec)	1.11623E-02	+/-	7.5E-04
Phase delay (usec)	-4.02988972411E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	5.12331E-07	+/-	3.2E-07
Delay rate (us/s)	-1.11728434169E-01	Apriori rate (us/s)	-1.11729051657E-01	Resid rate (us/s)	6.17488E-07	+/-	3.1E-09
Total phase (deg)	-300.5	Apriori accel (us/s/s)	2.18833574603E-05	Resid phase (deg)	15.9	+/-	9.9

ph/seg (deg)	52.1	Theor.	23.2	Amplitude	0.315 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	63.9	Search (1024X32)	0.306	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.8	Inc. seg. avg.	0.355	Inc. frq. avg.	0.326	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	46.9	Inc. frq. avg.	0.326	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
									ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) 652.335 1554.587 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BP.W.68.3MP1KJ



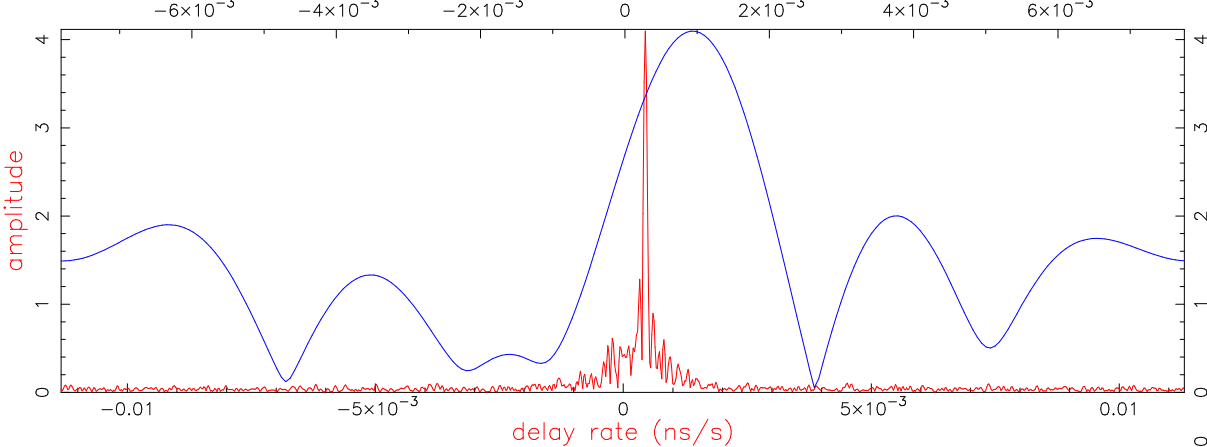
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BX

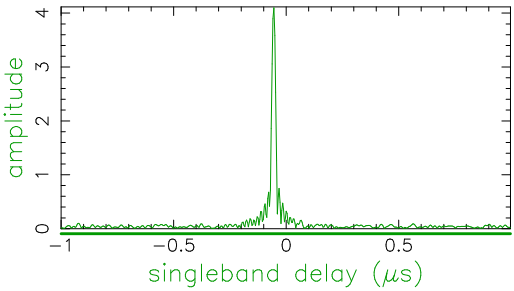
EFLSBERG - ONSALA60, fgroup W, pol LL

multiband delay ( $\mu$ s)

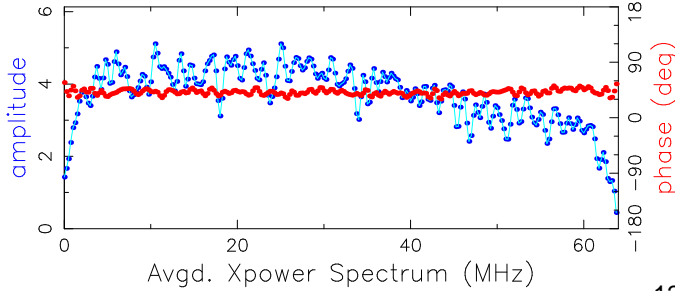


Fringe quality 4

SNR 150.8  
 Int time 179.690  
 Amp 4.117  
 Phase 111.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.055547  
 MBD 0.000917  
 Fringe rate (Hz)  
 0.037355  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

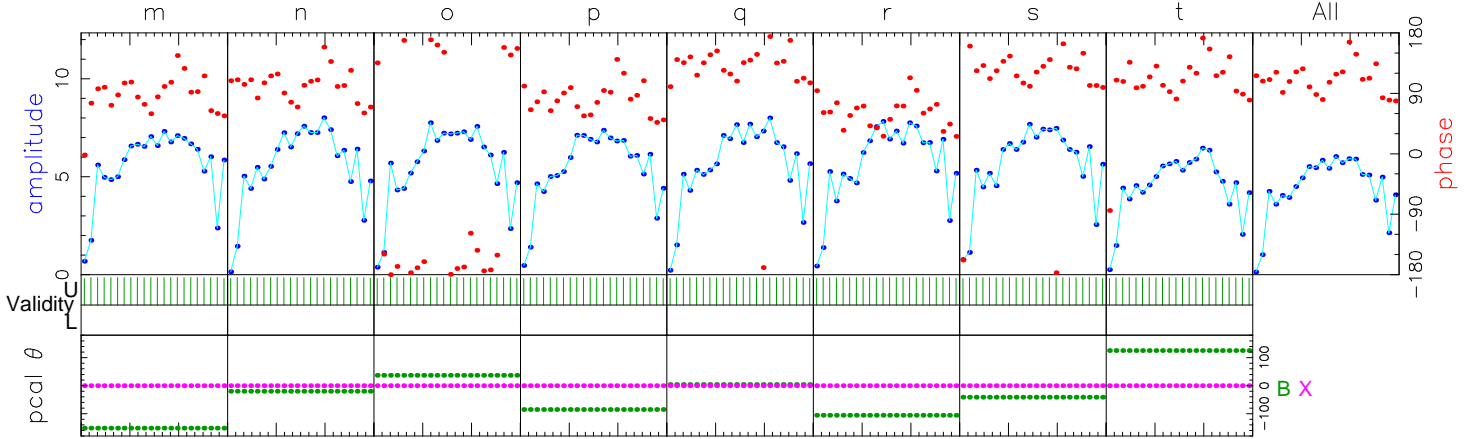


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171328  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	92.3	102.8	-175.8	82.7	137.5	59.6	128.5	115.8	Phase	111.6
	5.1	5.1	5.1	5.0	5.2	5.2	5.2	4.1	Ampl.	5.0
	242.4	242.2	242.8	242.5	242.9	242.5	242.5	241.9	Sbd box	242.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	2.13476853687E+03	Apriori delay (usec)	2.13483011995E+03	Resid mbdelay (usec)	9.16921E-04	+/-	7.2E-06
Sband delay (usec)	2.13477457245E+03	Apriori clock (usec)	-1.4814394E+02	Resid sbdelay (usec)	-5.55475E-02	+/-	5.7E-05
Phase delay (usec)	2.13483012355E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	3.59890E-06	+/-	2.5E-08
Delay rate (us/s)	7.04604181413E-03	Apriori rate (us/s)	7.04560815420E-03	Resid rate (us/s)	4.33660E-07	+/-	2.4E-10
Total phase (deg)	303.2	Apriori accel (us/s/s)	-1.24062556083E-05	Resid phase (deg)	111.6	+/-	0.8

ph/seg (deg)	21.7	1.8	Search (1024X32)	3.966	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	38.1	3.1	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)	41.3	1.1	Inc. seg. avg.	4.443	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	23.4	1.9	Inc. frq. avg.	5.015	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 209.4 el 37.7 pa 18.4 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -47.184 -658.331 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BX.W.32.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

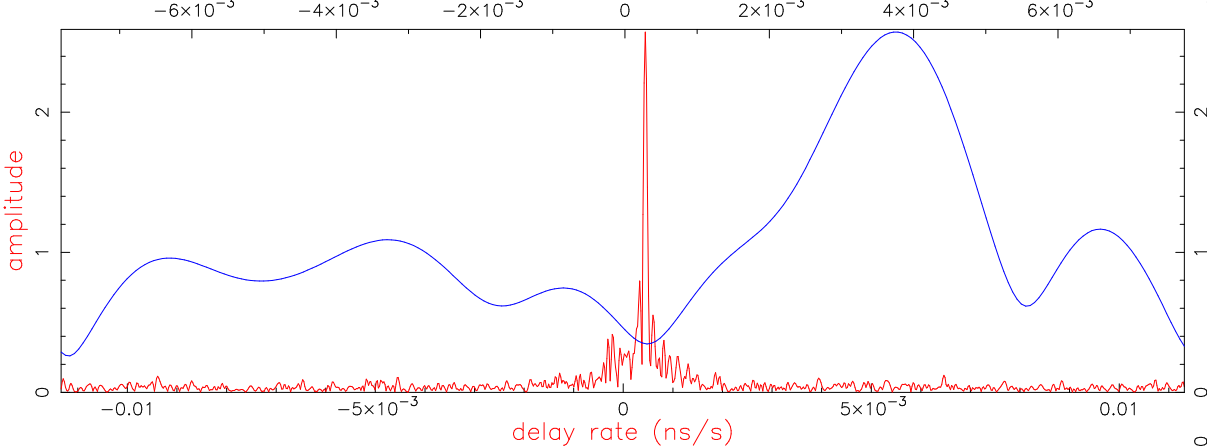
aux01

3C273.3MP1KJ, No0618, BX

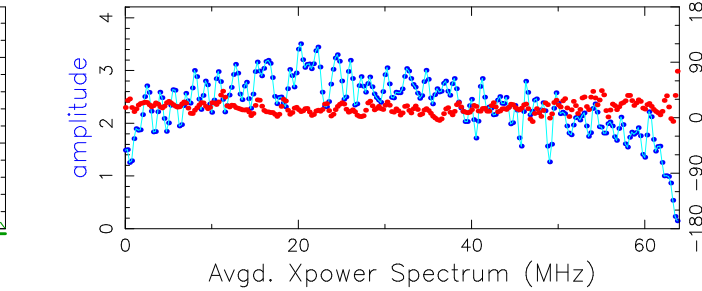
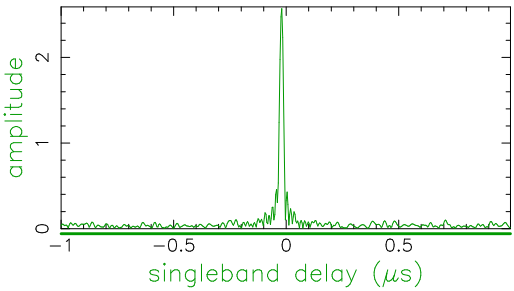
EFLSBERG - ONSALA60, fgroup W, pol RR

multiband delay ( $\mu$ s)

Fringe quality 2

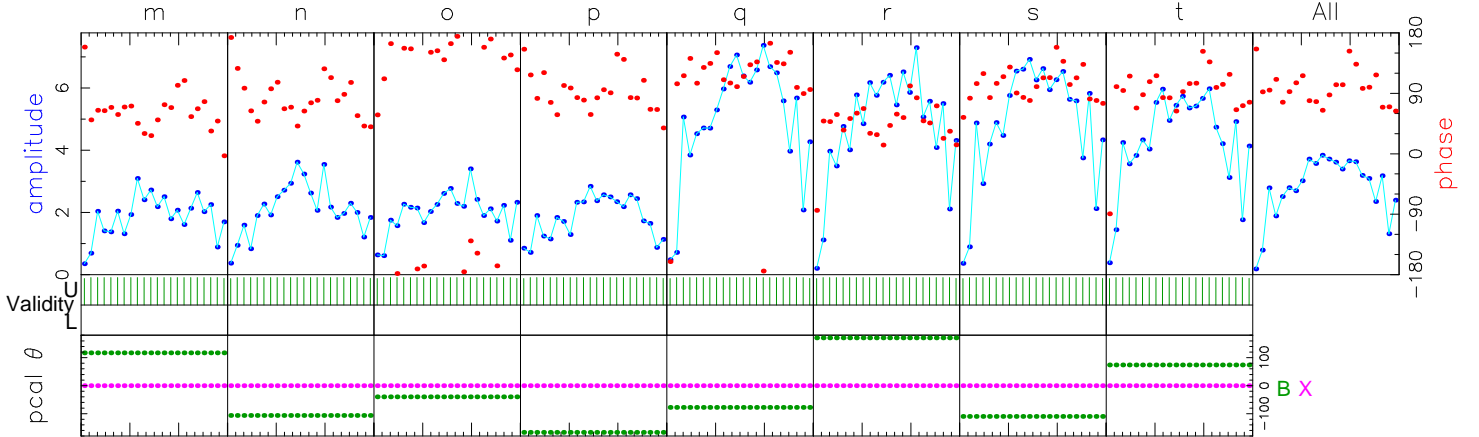


SNR 94.9  
 Int time 179.690  
 Amp 2.592  
 Phase 96.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.020637  
 MBD 0.003719  
 Fringe rate (Hz)  
 0.037391  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171330  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	2.13480258846E+03	Apriori delay (usec)	2.13483011995E+03	Resid mbdelay (usec)	3.71851E-03	+/-	1.1E-05
Sband delay (usec)	2.13480948245E+03	Apriori clock (usec)	-1.4814394E+02	Resid sbdelay (usec)	-2.06375E-02	+/-	9.1E-05
Phase delay (usec)	2.13483012305E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	3.10187E-06	+/-	3.9E-08
Delay rate (us/s)	7.0460422226E-03	Apriori rate (us/s)	7.04560815420E-03	Resid rate (us/s)	4.34068E-07	+/-	3.7E-10
Total phase (deg)	287.8	Apriori accel (us/s/s)	-1.24062556083E-05	Resid phase (deg)	96.2	+/-	1.2

ph/seg (deg)	25.1	RMS	25.1	Theor.	2.8	Amplitude	2.592 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	38.0		4.9		2.8	Search (1024X32)	2.466	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	41.5		1.7		1.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	53.8		3.0		3.0	Inc. seg. avg.	2.794	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	3.051	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -47.184 -658.331 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BX.W.41.3MP1KJ

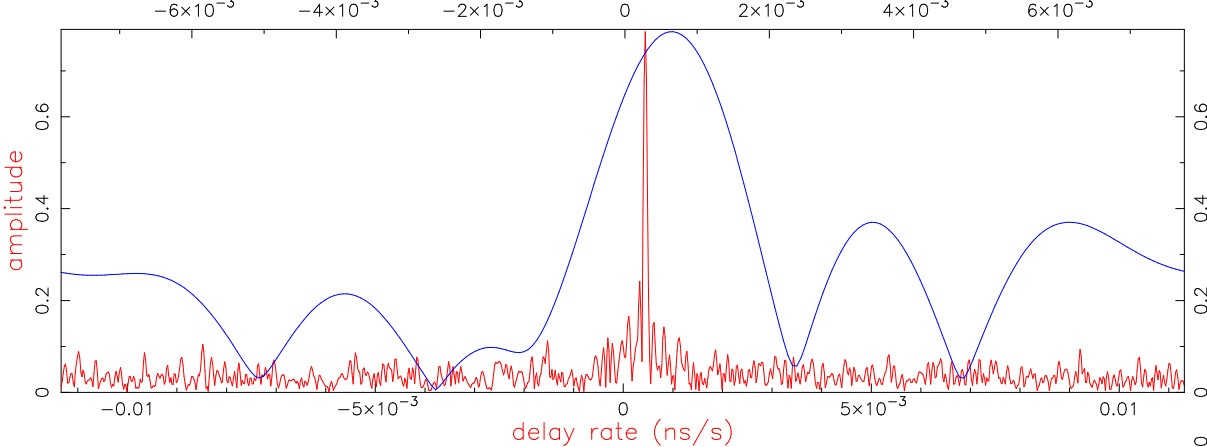
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BX

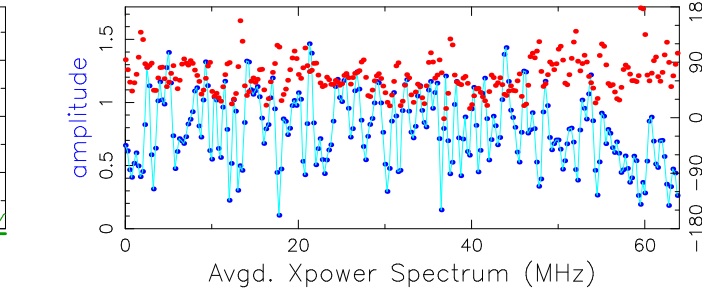
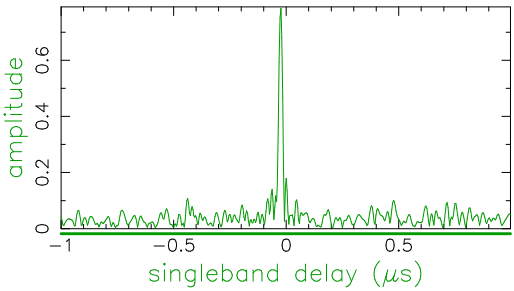
EFLSBERG - ONSALA60, fgroup W, pol LR

multiband delay ( $\mu$ s)



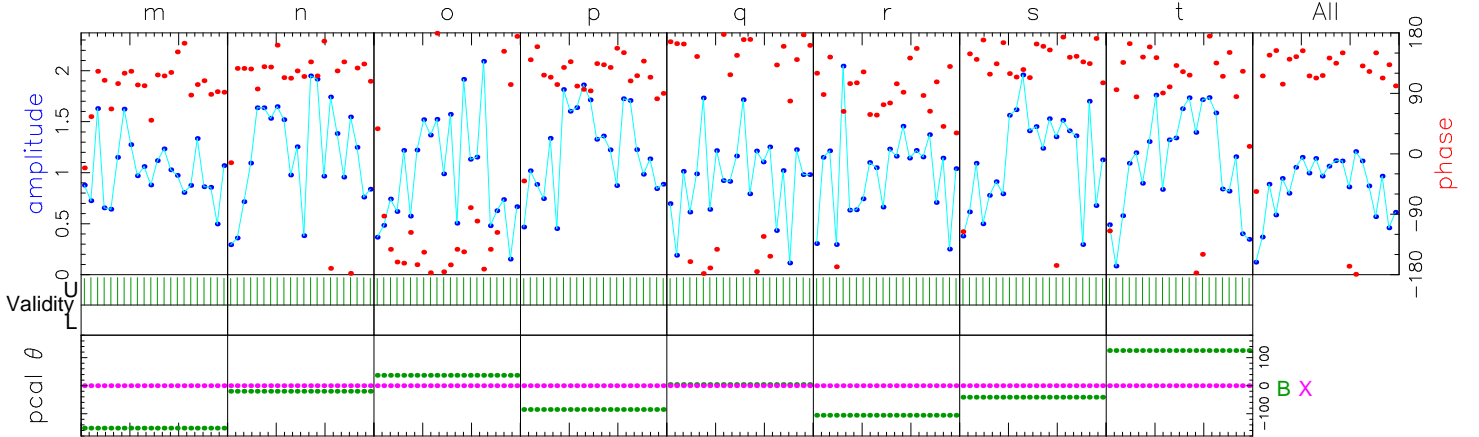
Fringe quality 5

SNR 29.0  
 Int time 179.690  
 Amp 0.790  
 Phase 136.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.024443  
 MBD 0.000615  
 Fringe rate (Hz)  
 0.037319  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2025:041:171332  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
X	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:X	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
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		Chan ids
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	2.13479948493E+03	Apriori delay (usec)	2.13483011995E+03	Resid mbdelay (usec)	6.14983E-04	+/-	3.7E-05
Sband delay (usec)	2.13480567720E+03	Apriori clock (usec)	-1.4814394E+02	Resid sbdelay (usec)	-2.44427E-02	+/-	3.0E-04
Phase delay (usec)	2.13483012435E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	4.40651E-06	+/-	1.3E-07
Delay rate (us/s)	7.04604138758E-03	Apriori rate (us/s)	7.04560815420E-03	Resid rate (us/s)	4.33233E-07	+/-	1.2E-09
Total phase (deg)	328.2	Apriori accel (us/s/s)	-1.24062556083E-05	Resid phase (deg)	136.6	+/-	4.0

ph/seg (deg)	41.7	RMS	Theor.	Amplitude	0.790 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	37.0	41.7	9.3	Search (1024X32)	0.756	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	40.0	37.0	16.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	22.5	40.0	5.6	Inc. seg. avg.	0.854	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
		22.5	9.8	Inc. frq. avg.	0.922	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -47.184 -658.331 simultaneous interpolator

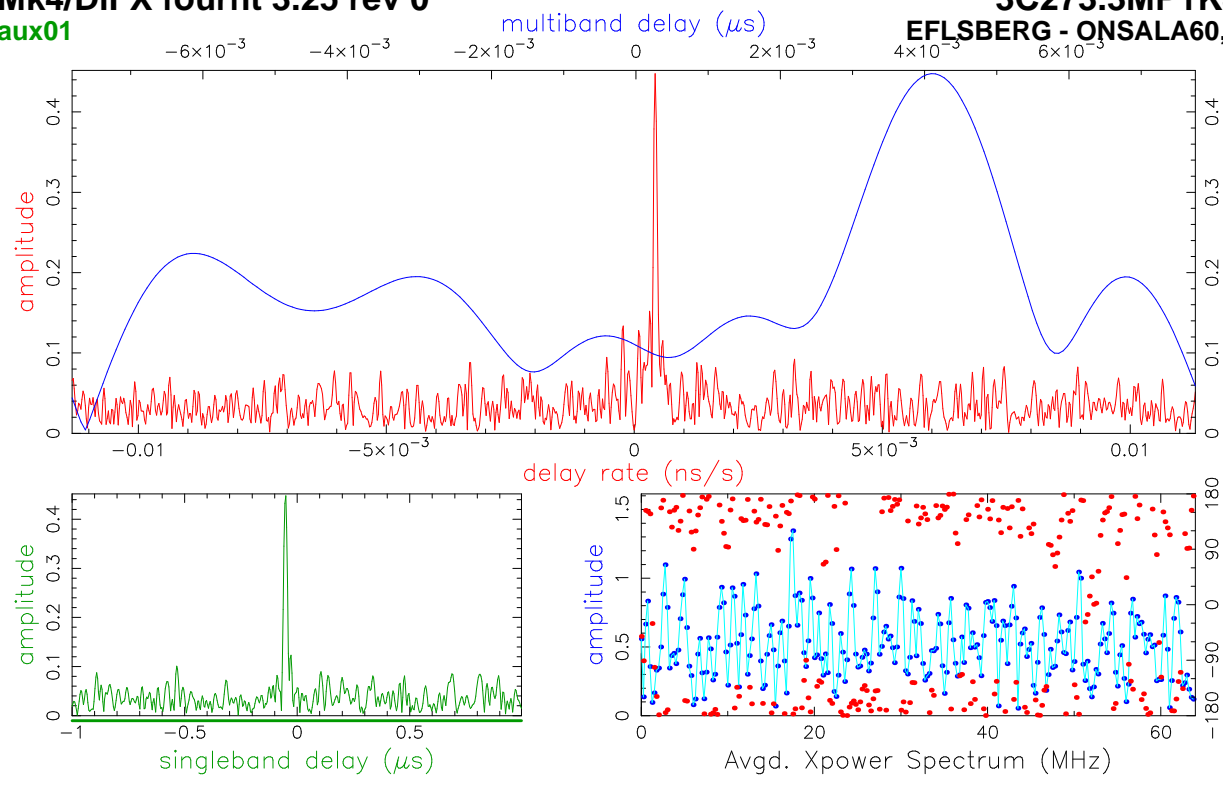
Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BX.W.53.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BX

EFLSBERG - ONSALA60, fgroup W, pol RL

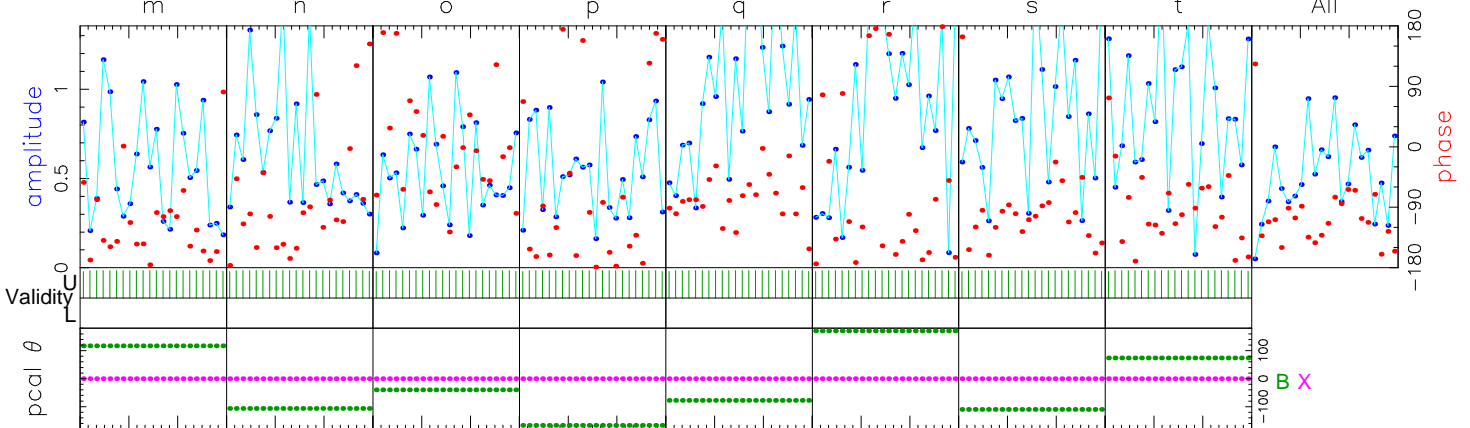


Fringe quality 7

SNR 16.5  
 Int time 179.690  
 Amp 0.452  
 Phase -111.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.051991  
 MBD 0.004076  
 Fringe rate (Hz) 0.037243  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build 2024:359:200643  
 2025:041:171335  
 2024:113:095956  
 RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-125.4	-116.9	-21.2	-153.3	-74.7	-155.8	-105.7	-102.0	Phase	-111.2
	0.4	0.4	0.2	0.4	0.8	0.7	0.7	0.6	Ampl.	0.5
	243.7	243.3	242.5	243.3	243.6	243.5	243.2	243.2	Sbd box	243.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	2.13477169552E+03	Apriori delay (usec)	2.13483011995E+03	Resid mbdelay (usec)	4.07558E-03	+/-	6.6E-05
Sband delay (usec)	2.13477812870E+03	Apriori clock (usec)	-1.4814394E+02	Resid sbdelay (usec)	-5.19913E-02	+/-	5.2E-04
Phase delay (usec)	2.13483011636E+03	Apriori clockrate (us/s)	-1.4061621E-06	Resid phdelay (usec)	-3.58739E-06	+/-	2.2E-07
Delay rate (us/s)	7.04604051322E-03	Apriori rate (us/s)	7.04560815420E-03	Resid rate (us/s)	4.32359E-07	+/-	2.1E-09
Total phase (deg)	80.3	Apriori accel (us/s/s)	-1.24062556083E-05	Resid phase (deg)	-111.2	+/-	6.9

ph/seg (deg) 38.5 16.2 Search (1024X32) 0.429 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 52.0 28.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 47.5 9.8 Inc. seg. avg. 0.496 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 45.9 17.1 Inc. frq. avg. 0.531 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 209.4 el 37.7 pa 18.4 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -47.184 -658.331 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BX.W.66.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

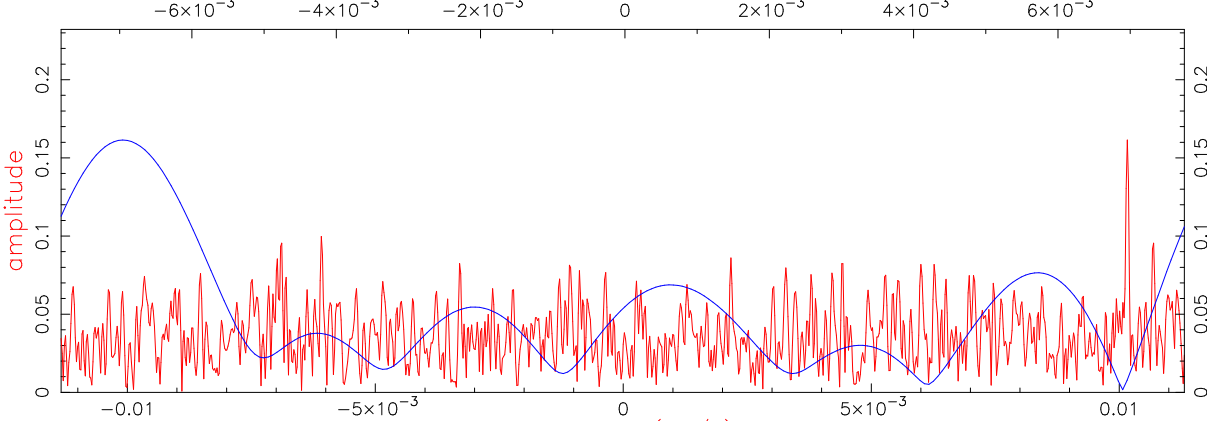
aux01

3C273.3MP1KJ, No0618, BZ

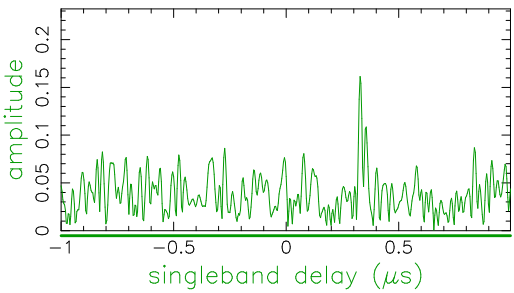
EFLSBERG - METSAHOV, fgroup W, pol LL

multiband delay ( $\mu$ s)

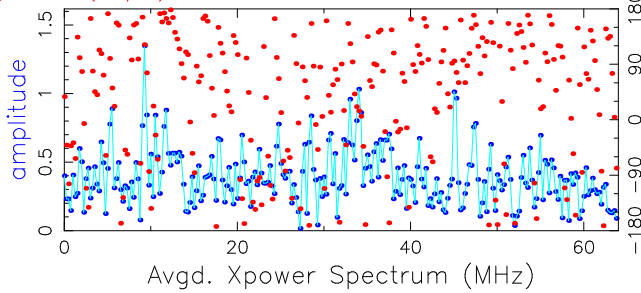
Fringe quality 0



SNR 6.0  
 Int time 179.970  
 Amp 0.232  
 Phase 22.5  
 PFD 2.7e-01  
 Delays (us)  
 SBD 0.329211  
 MBD -0.006962  
 Fringe rate (Hz)  
 0.875952  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

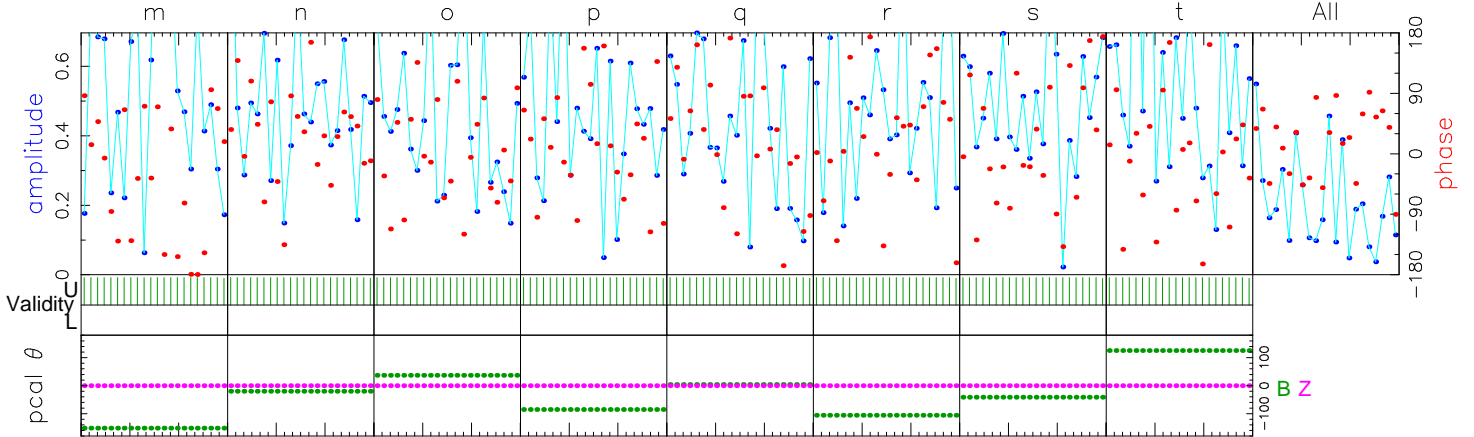


delay rate (ns/s)



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build  
 2024:359:200643  
 2025:041:171328  
 2024:113:095956  
 RA & Dec (J2000)  
 12h29m06.699742s  
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
Z	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:Z	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	4.32182950137E+03	Apriori delay (usec)	4.32149271333E+03	Resid mbdelay (usec)	-6.96196E-03	+/-	1.8E-04
Sband delay (usec)	4.32182192458E+03	Apriori clock (usec)	-3.5620777E+01	Resid sbdelay (usec)	3.29211E-01	+/-	1.4E-03
Phase delay (usec)	4.32149271406E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	7.24935E-07	+/-	6.2E-07
Delay rate (us/s)	1.14235527864E-01	Apriori rate (us/s)	1.14225358925E-01	Resid rate (us/s)	1.01689E-05	+/-	6.0E-09
Total phase (deg)	140.1	Apriori accel (us/s/s)	-2.35319389862E-05	Resid phase (deg)	22.5	+/-	19.2

ph/seg (deg)	51.1	Theor.	45.0	Amplitude	0.232 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	88.8	Search (1024X32)	0.158	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.2	Inc. seg. avg.	0.231	Inc. frq. avg.	0.218	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	45.9	Inc. frq. avg.	0.218			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4      Z: az 225.1 el 24.0 pa 20.7      u,v (fr/asec) -667.362 -913.993      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/BZ..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/BZ.W.34.3MP1KJ

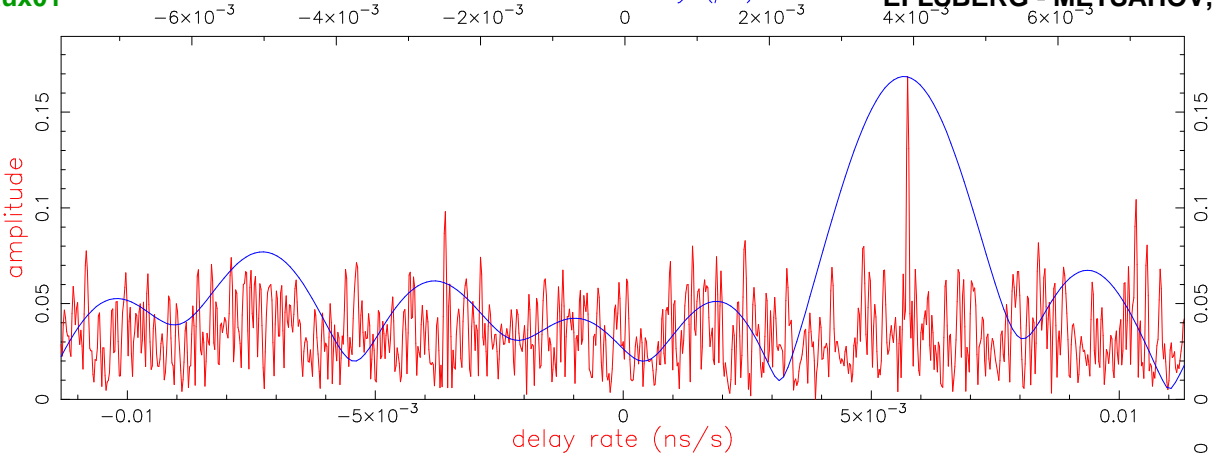
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BZ

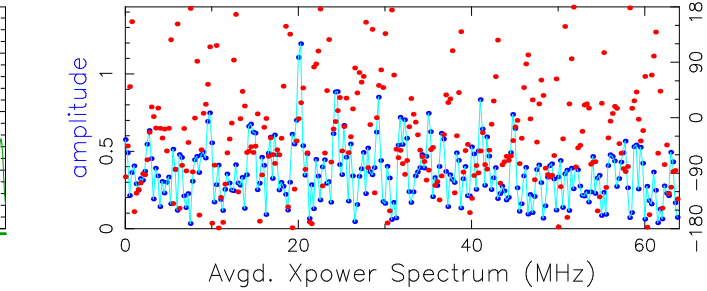
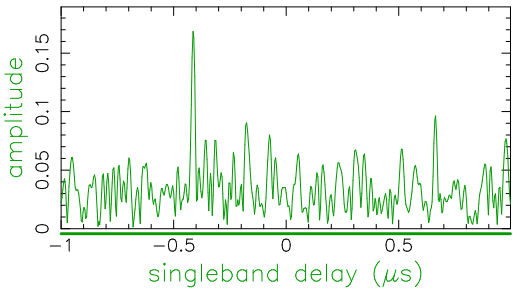
EFLSBERG - METSAHOV, fgroup W, pol RR

multiband delay ( $\mu$ s)



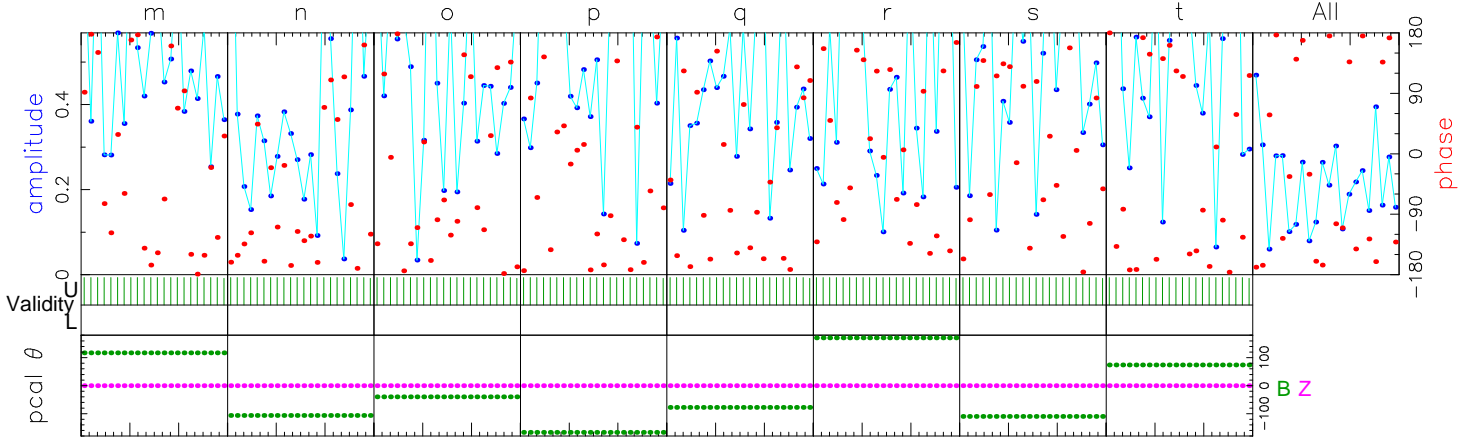
Fringe quality 0

SNR 6.2  
 Int time 179.970  
 Amp 0.190  
 Phase -164.5  
 PFD 5.7e-02  
 Delays (us)  
 SBD -0.412788  
 MBD 0.003889  
 Fringe rate (Hz) 0.495573  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c241b  
 Exper # 1234  
 Yr:day 2024:110  
 Start 234000.00  
 Stop 234300.23  
 FRT 234134.00  
 Corr/FF/build 2024:359:200643  
 2025:041:171330  
 2024:113:095956  
 RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
Z	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:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	4.32107472696E+03	Apriori delay (usec)	4.32149271333E+03	Resid mbdelay (usec)	3.88862E-03	+/-	1.7E-04
Sband delay (usec)	4.32107992508E+03	Apriori clock (usec)	-3.5620777E+01	Resid sbdelay (usec)	-4.12788E-01	+/-	1.4E-03
Phase delay (usec)	4.32149270803E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	-5.30527E-06	+/-	5.9E-07
Delay rate (us/s)	1.14231112033E-01	Apriori rate (us/s)	1.14225358925E-01	Resid rate (us/s)	5.75311E-06	+/-	5.7E-09
Total phase (deg)		Apriori accel (us/s/s)	-2.35319389862E-05	Resid phase (deg)	-164.5	+/-	18.4

ph/seg (deg)	59.4	Theor.	43.1	Amplitude	0.190 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	65.5		75.2	Search (1024X32)	0.166	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	15.8		26.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	49.9		45.3	Inc. seg. avg.	0.188	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.175	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 209.4 el 37.7 pa 18.4      Z: az 225.1 el 24.0 pa 20.7      u,v (fr/asec) -667.362 -913.993      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/BZ..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/BZ.W.43.3MP1KJ

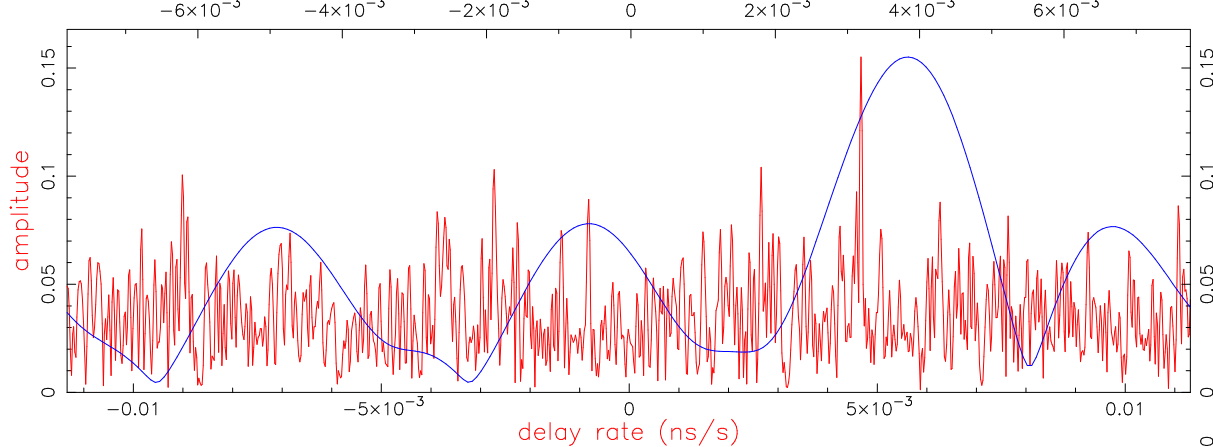
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BZ

EFLSBERG - METSAHOV, fgroup W, pol LR

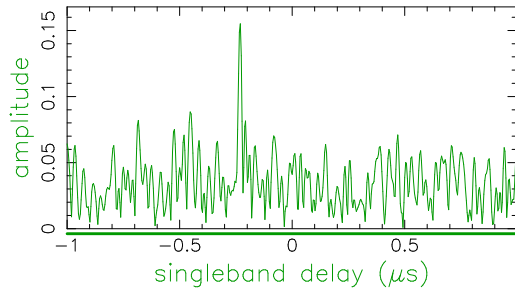
multiband delay ( $\mu$ s)



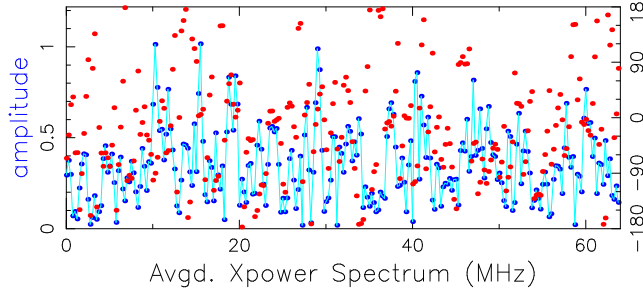
Fringe quality 0

SNR 5.7  
Int time 179.970  
Amp 0.168  
Phase 145.4  
PFD 7.0e-01  
Delays (us)  
SBD -0.231576  
MBD 0.003823  
Fringe rate (Hz)  
0.403113  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

delay rate (ns/s)



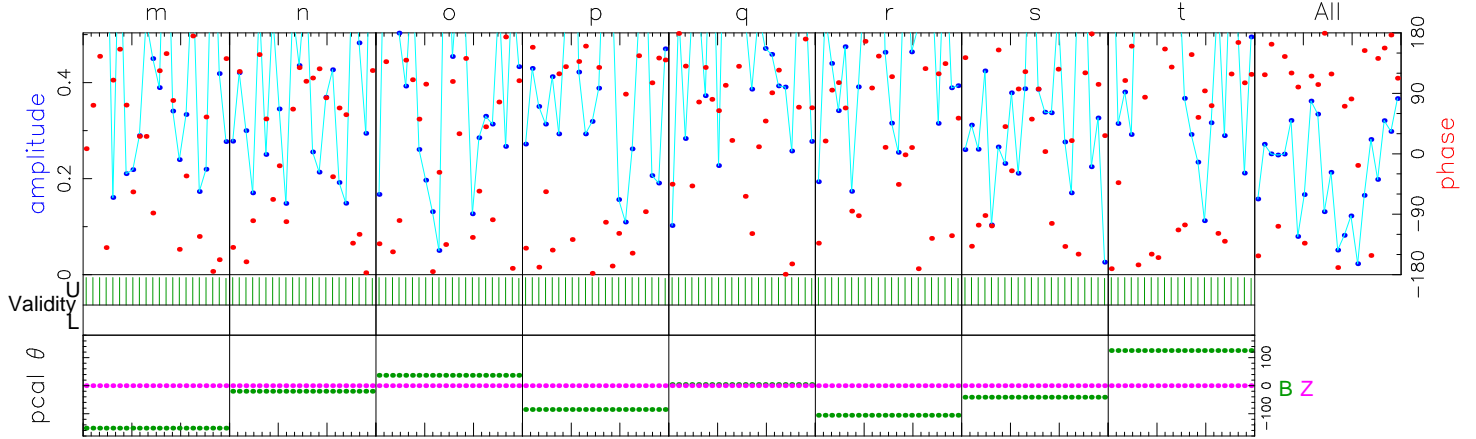
singleband delay ( $\mu$ s)



Avgd. Xpower Spectrum (MHz)

Exp. c241b  
Exper # 1234  
Yr:day 2024:110  
Start 234000.00  
Stop 234300.23  
FRT 234134.00  
Corr/FF/build  
2024:359:200643  
2025:041:171332  
2024:113:095956  
RA & Dec (J2000)  
12h29m06.699742s  
+02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
Z	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:Z	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
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)	4.32126216159E+03	Apriori delay (usec)	4.32149271333E+03	Resid mbdelay (usec)	3.82326E-03	+/-	1.9E-04
Sband delay (usec)	4.32126113758E+03	Apriori clock (usec)	-3.5620777E+01	Resid sbdelay (usec)	-2.31576E-01	+/-	1.5E-03
Phase delay (usec)	4.32149271802E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	4.68879E-06	+/-	6.4E-07
Delay rate (us/s)	1.14230038665E-01	Apriori rate (us/s)	1.14225358925E-01	Resid rate (us/s)	4.67974E-06	+/-	6.2E-09
Total phase (deg)	263.0	Apriori accel (us/s/s)	-2.35319389862E-05	Resid phase (deg)	145.4	+/-	20.0

ph/seg (deg)	58.3	RMS	46.8	Theor.	Amplitude	0.168 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	74.0	Search (1024X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	Interp.	0.000	SampCntNorm: enabled	mb window (us)	-1.000 1.000
ph/frq (deg)	31.8	Inc. seg. avg.	0.172	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	Inc. frq. avg.	0.171	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
amp/frq (%)	40.0	Inc. frq. avg.	0.171	Data rate(Mb/s): 2048			ion window (TEC)	0.00 0.00	

B: az 209.4 el 37.7 pa 18.4 Z: az 225.1 el 24.0 pa 20.7 u,v (fr/asec) -667.362 -913.993 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/BZ..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/BZ.W.55.3MP1KJ

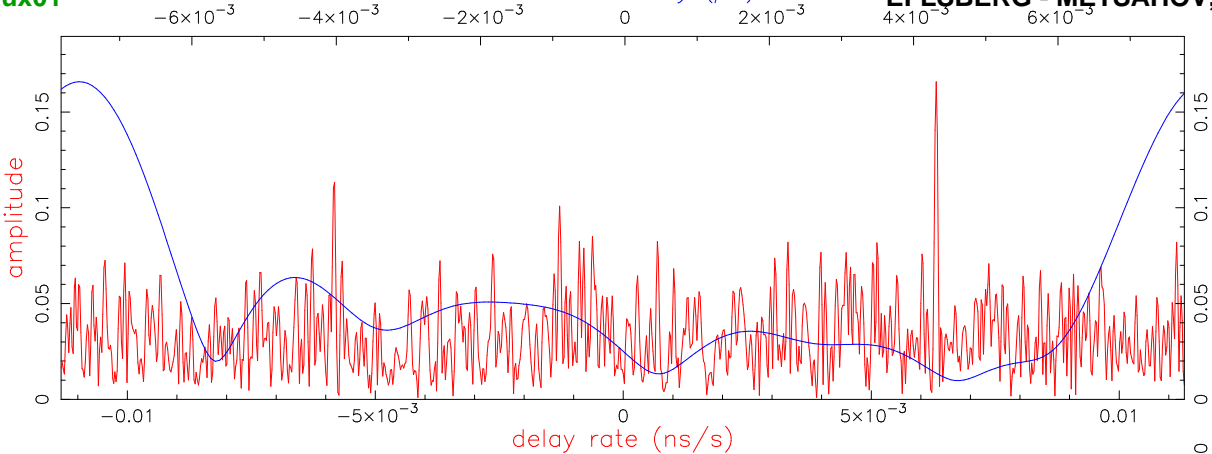
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, BZ

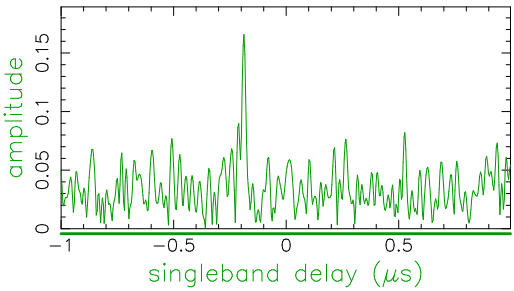
EFLSBERG - METSAHOV, fgroup W, pol RL

multiband delay ( $\mu$ s)

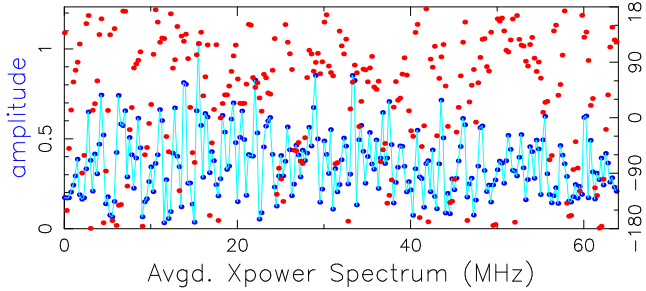


Fringe quality 0

SNR 6.1  
Int time 179.970  
Amp 0.189  
Phase -2.3  
PFD 1.3e-01  
Delays (us)  
SBD -0.188104  
MBD 0.008042  
Fringe rate (Hz)  
0.545094  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

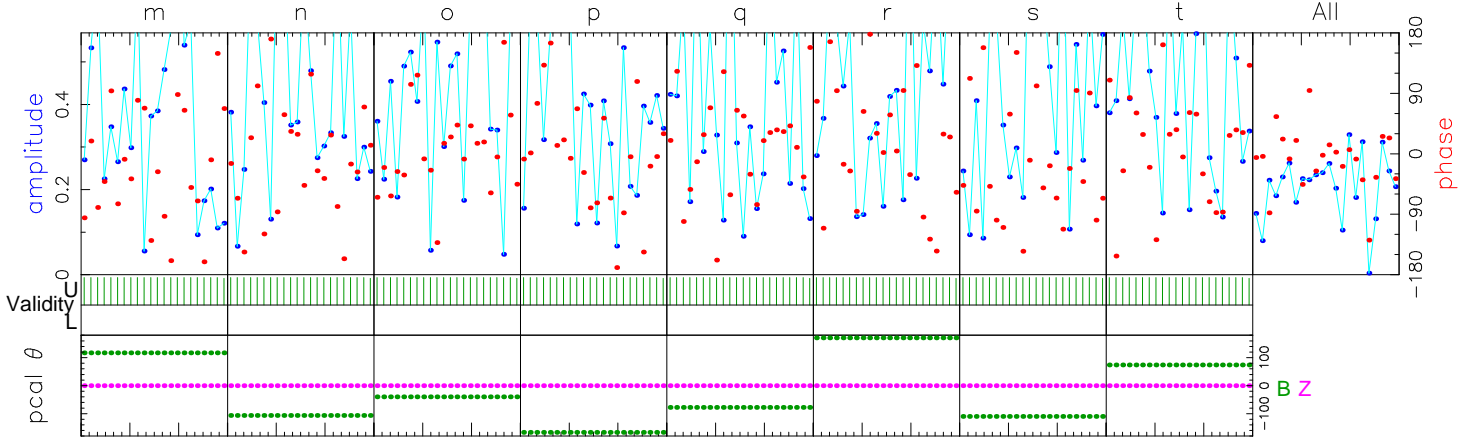


delay rate (ns/s)



Exp. c241b  
Exper # 1234  
Yr:day 2024:110  
Start 234000.00  
Stop 234300.23  
FRT 234134.00  
Corr/FF/build  
2024:359:200643  
2025:041:171334  
2024:113:095956  
RA & Dec (J2000)  
12h29m06.699742s  
+02°03'08.598116"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-9.6	-9.7	4.8	3.1	7.0	-20.0	-56.2	21.7	Phase	-2.3
	0.1	0.2	0.3	0.2	0.3	0.1	0.2	0.3	Ampl.	0.2
	506.8	324.6	341.0	194.0	471.9	453.9	352.8	498.9	Sbd box	208.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	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)	4.32129763043E+03	Apriori delay (usec)	4.32149271333E+03	Resid mbdelay (usec)	8.04209E-03	+/-	1.8E-04
Sband delay (usec)	4.32130460908E+03	Apriori clock (usec)	-3.5620777E+01	Resid sbdelay (usec)	-1.88104E-01	+/-	1.4E-03
Phase delay (usec)	4.32149271326E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	-7.46328E-08	+/-	6.1E-07
Delay rate (us/s)	1.14231686924E-01	Apriori rate (us/s)	1.14225358925E-01	Resid rate (us/s)	6.32800E-06	+/-	5.8E-09
Total phase (deg)		Apriori accel (us/s/s)	-2.35319389862E-05	Resid phase (deg)	-2.3	+/-	18.8

ph/seg (deg)	RMS 45.3	Theor. 44.1	Amplitude Search (1024X32)	0.189 +/- 0.031	0.162	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	51.4	77.0	Interp.	0.000	0.162	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	26.0	26.6	Inc. seg. avg.	0.180	0.183	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	35.5	46.4	Inc. frq. avg.	0.183	0.183	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011		
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 209.4 el 37.7 pa 18.4      Z: az 225.1 el 24.0 pa 20.7      u,v (fr/asec) -667.362 -913.993      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c241b/v2/3mm/1234/No0618/BZ..3MP1KJ      Output file: /Exps/c241b/v2/3mm/1234/No0618/BZ.W.63.3MP1KJ