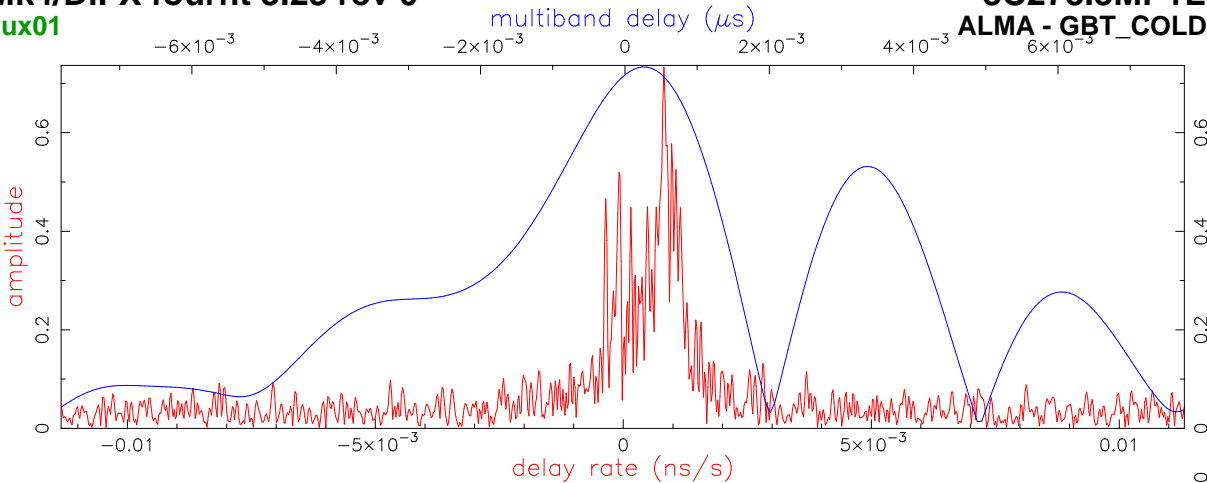


Mk4/DiFX fourfit 3.25 rev 0

aux01

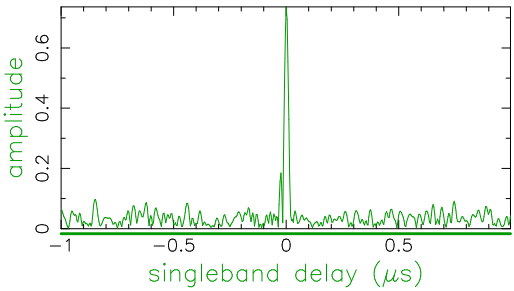
3C273.3MP1LL, No0627, AG

ALMA - GBT_COLD, fgroup W, pol XR

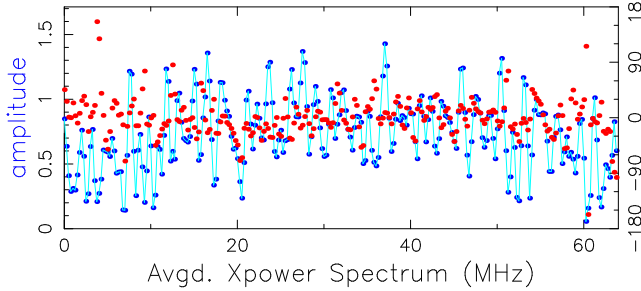


Fringe quality 6

SNR 27.0
 Int time 179.989
 Amp 0.737
 Phase 3.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.000662
 MBD 0.000296
 Fringe rate (Hz) 0.071411
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

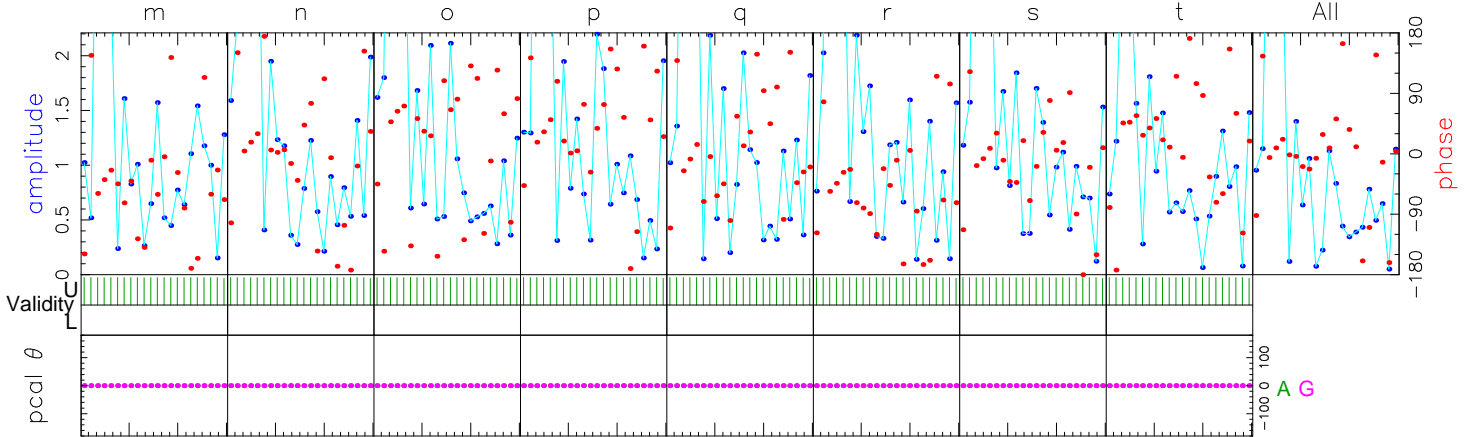


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171521
 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
	-63.2	15.5	59.4	37.4	-9.7	-52.9	-6.4	38.8	Phase	3.4
	0.8	0.9	1.0	1.1	1.0	1.1	1.1	0.6	Ampl.	0.9
	258.9	257.1	257.0	257.1	256.9	256.9	257.0	259.1	Sbd box	257.2
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	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.98407136861E+03		Apriori delay (usec)		1.98407107213E+03		Resid mbdelay (usec)		2.96480E-04	+/- 4.0E-05
Sband delay (usec)	1.98407173388E+03		Apriori clock (usec)		-2.0927869E+03		Resid sbdelay (usec)		6.61750E-04	+/- 3.2E-04
Phase delay (usec)	1.98407107224E+03		Apriori clockrate (us/s)		-8.1214983E-08		Resid phdelay (usec)		1.08718E-07	+/- 1.4E-07
Delay rate (us/s)	-2.22772130980E-03		Apriori rate (us/s)		-2.22855032080E-03		Resid rate (us/s)		8.29011E-07	+/- 1.3E-09
Total phase (deg)	58.6		Apriori accel (us/s/s)		-2.54896713809E-05		Resid phase (deg)		3.4	+/- 4.2

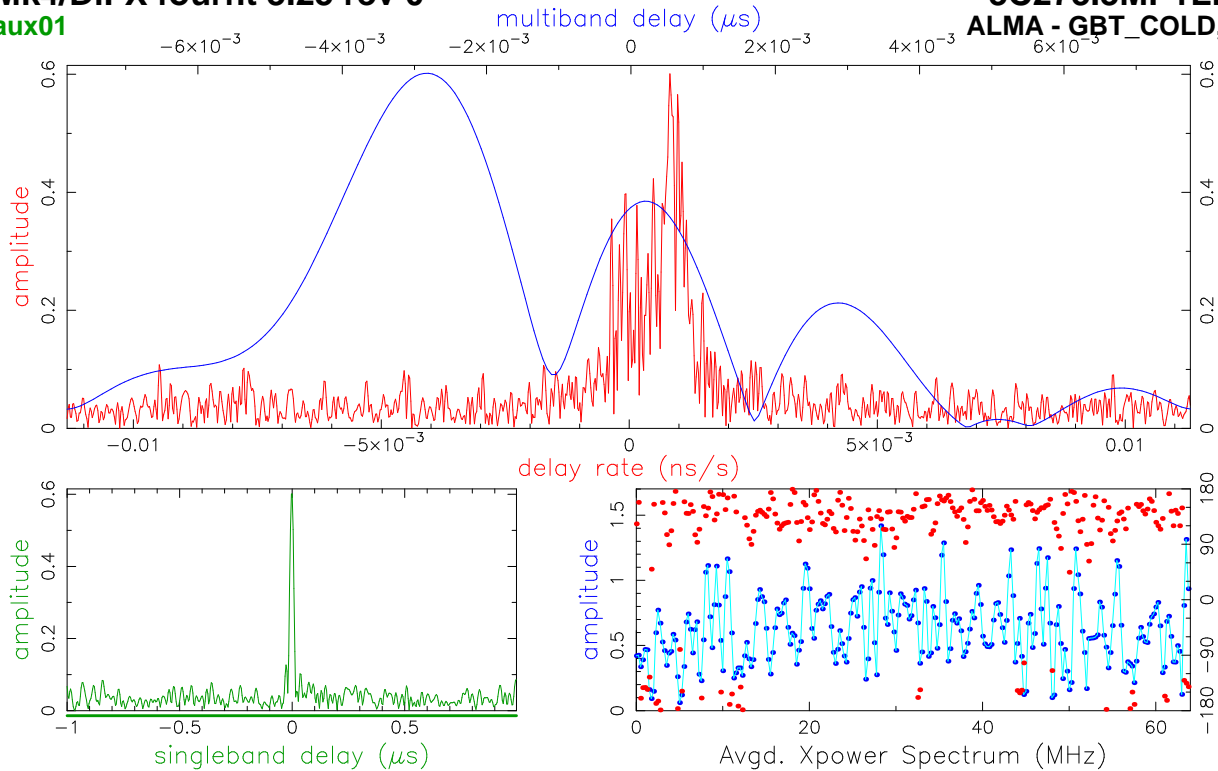
ph/seg (deg) 82.2 10.0 Search (1024X32) 0.704 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 166.5 17.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.5 6.0 Inc. seg. avg. 1.069 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.4 10.5 Inc. frq. avg. 0.948 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 A: az 67.7 el 38.1 pa -121.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) -2.755 -9013.173 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//AG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//AG.W.12.3MP1LL simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, AG

ALMA - GBT_COLD, fgroup W, pol YL

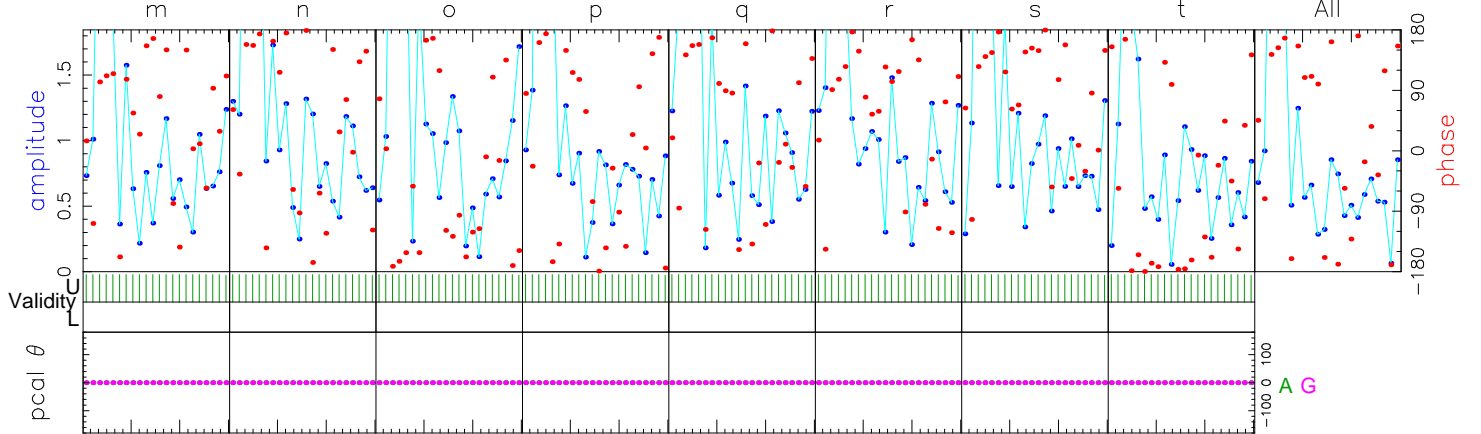


Fringe quality 8

SNR 22.5
 Int time 179.989
 Amp 0.615
 Phase 153.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.001962
 MBD -0.002756
 Fringe rate (Hz)
 0.071419
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171523
 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	
	106.2	163.2	-161.1	169.5	153.4	106.3	130.9	-173.6	Phase	153.4	
	0.6	0.8	1.0	0.7	0.6	0.7	0.8	0.4	Ampl.	0.7	
	258.4	256.1	256.2	256.2	256.0	256.3	256.5	257.9	Sbd box	256.5	
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		
G	0	0	0	0	0	0	0	0	PC freqs		
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
G	1000	1000	1000	1000	1000	1000	1000	1000			
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	1.98406831564E+03		Apriori delay (usec)		1.98407107213E+03		Resid mbdelay (usec)		-2.75649E-03	+/- 4.8E-05	
Sband delay (usec)	1.98406911038E+03		Apriori clock (usec)		-2.0927869E+03		Resid sbdelay (usec)		-1.96175E-03	+/- 3.8E-04	
Phase delay (usec)	1.98407107708E+03		Apriori clockrate (us/s)		-8.1214983E-08		Resid phdelay (usec)		4.94717E-06	+/- 1.6E-07	
Delay rate (us/s)	-2.22772121344E-03		Apriori rate (us/s)		-2.22855032080E-03		Resid rate (us/s)		8.29107E-07	+/- 1.6E-09	
Total phase (deg)	208.7		Apriori accel (us/s/s)		-2.54896713809E-05		Resid phase (deg)		153.4	+/- 5.1	
	RMS	Theor.	Amplitude	0.615 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	81.5	11.9	Search (1024X32)	0.589		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	171.6	20.8	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	37.6	7.2	Inc. seg. avg.	0.949		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	28.5	12.6	Inc. frq. avg.	0.707		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
A: az 67.7 el 38.1 pa -121.8		G: az 109.0 el 25.2 pa -47.8		u,v (fr/asec) -2.755 -9013.173						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0627//AG..3MP1LL		Output file: /Exps/c241b/v2/3mm/1234/No0627//AG.W.19.3MP1LL							

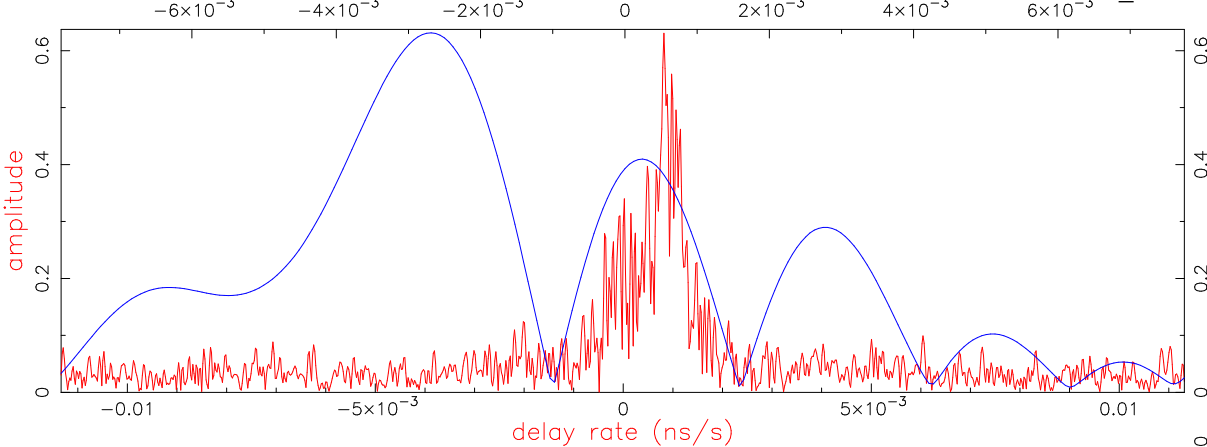
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, AG

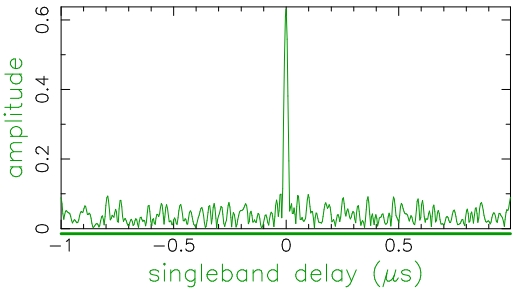
ALMA - GBT_COLD, fgroup W, pol XL

multiband delay (μ s)

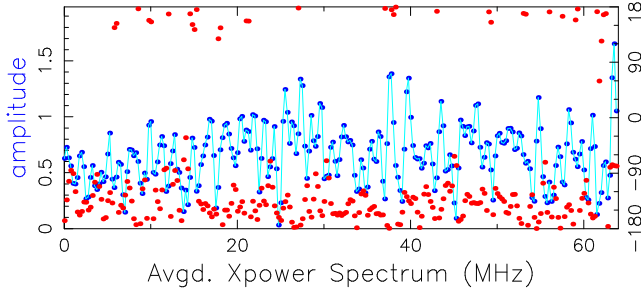


Fringe quality 8

SNR 23.3
 Int time 179.989
 Amp 0.637
 Phase -129.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.001199
 MBD -0.002746
 Fringe rate (Hz)
 0.071480
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

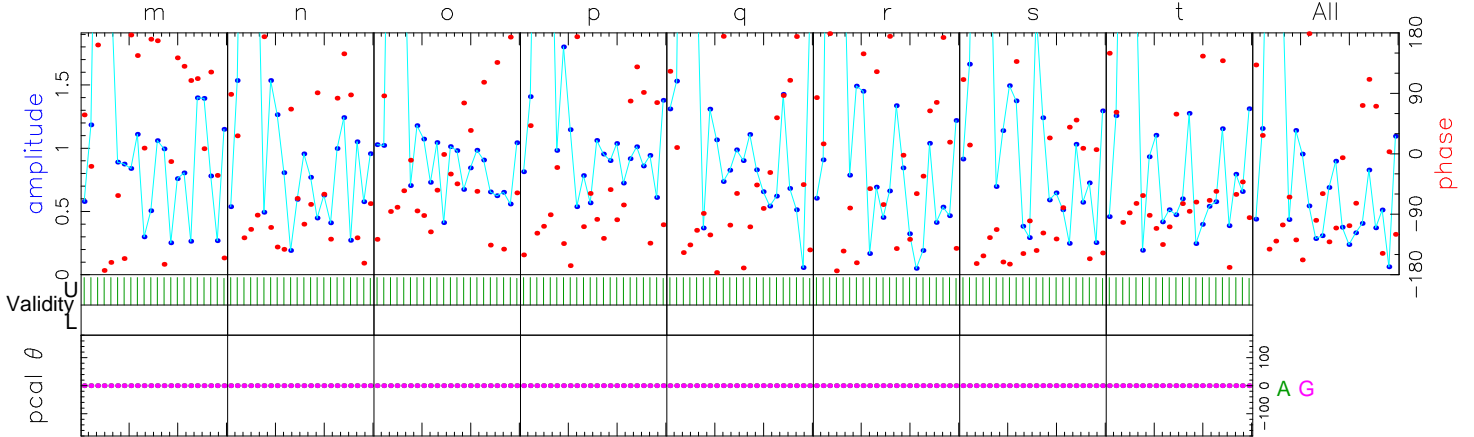


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171517
 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
	170.0	-115.9	-73.1	-110.7	-136.7	-172.2	-150.5	-91.2	Phase	-129.1
	0.7	0.8	0.8	0.8	0.8	0.7	0.9	0.7	Ampl.	0.8
	258.0	256.4	256.0	256.5	256.1	255.9	256.5	257.8	Sbd box	256.7
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	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.98406832641E+03	Apriori delay (usec)	1.98407107213E+03	Resid mbdelay (usec)	-2.74573E-03	+/-	4.7E-05
Sband delay (usec)	1.98406987338E+03	Apriori clock (usec)	-2.0927869E+03	Resid sbdelay (usec)	-1.19875E-03	+/-	3.7E-04
Phase delay (usec)	1.98407106797E+03	Apriori clockrate (us/s)	-8.1214983E-08	Resid phdelay (usec)	-4.16267E-06	+/-	1.6E-07
Delay rate (us/s)	-2.22772051055E-03	Apriori rate (us/s)	-2.22855032080E-03	Resid rate (us/s)	8.29810E-07	+/-	1.5E-09
Total phase (deg)	-73.8	Apriori accel (us/s/s)	-2.54896713809E-05	Resid phase (deg)	-129.1	+/-	4.9

ph/seg (deg)	82.8	RMS	11.5	Theor.	Amplitude	0.637 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	175.7		20.1		Search (1024X32)	0.609	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	43.1		6.9		Inc. seg. avg.	0.955	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	24.6		12.1		Inc. frq. avg.	0.775	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 67.7 el 38.1 pa -121.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) -2.755 -9013.173 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//AG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//AG.W.2.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

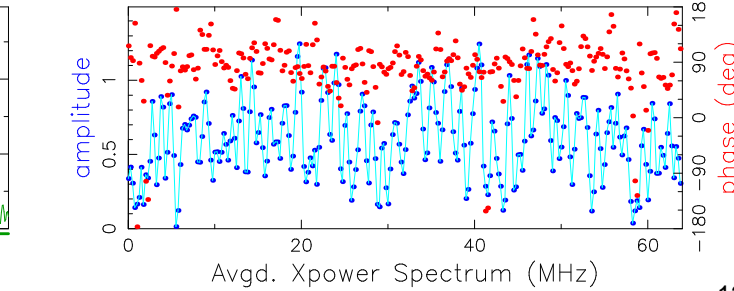
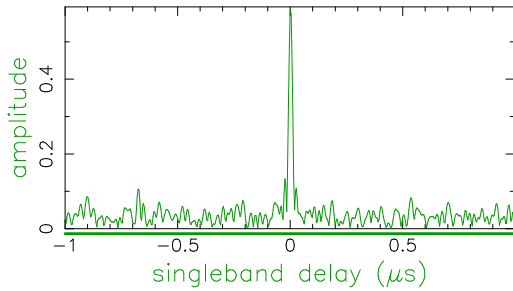
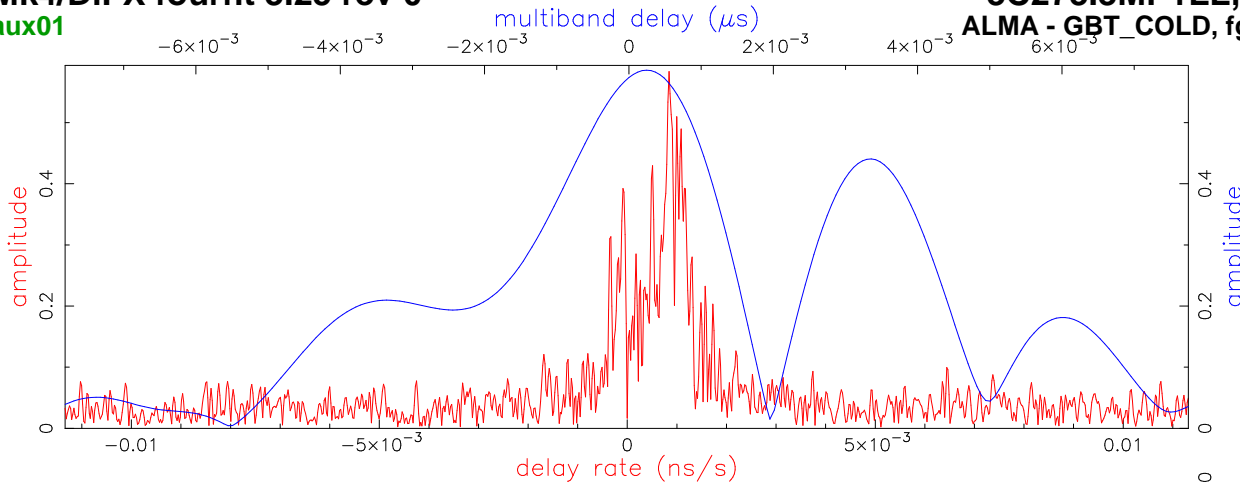
aux01

3C273.3MP1LL, No0627, AG

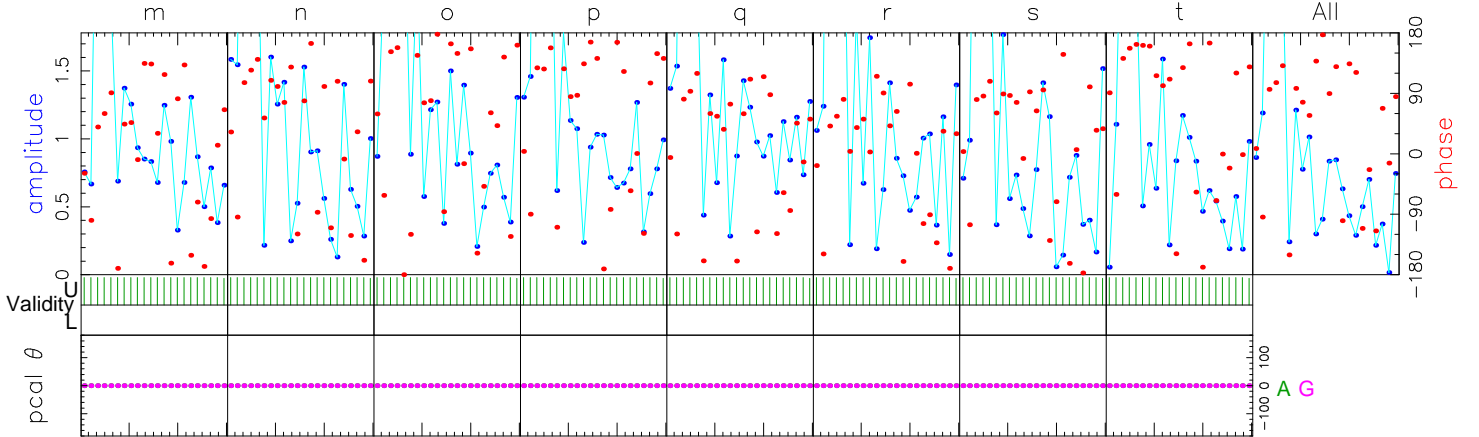
ALMA - GBT_COLD, fgroup W, pol YR

Fringe quality 8

SNR 21.7
 Int time 179.989
 Amp 0.594
 Phase 103.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.001604
 MBD 0.000346
 Fringe rate (Hz) 0.071791
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build 2024:359:214742
 2025:041:171519
 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
	68.0	110.3	156.7	135.7	78.5	44.8	83.5	151.5	Phase	103.3
	0.5	0.8	0.8	0.8	0.8	0.9	0.8	0.6	Ampl.	0.7
	259.3	257.2	256.8	257.1	257.1	256.8	257.4	258.6	Sbd box	257.4
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	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.98407141824E+03	Apriori delay (usec)	1.98407107213E+03	Resid mbdelay (usec)	3.46105E-04	+/-	5.0E-05
Sband delay (usec)	1.98407267638E+03	Apriori clock (usec)	-2.0927869E+03	Resid sbdelay (usec)	1.60425E-03	+/-	4.0E-04
Phase delay (usec)	1.98407107546E+03	Apriori clockrate (us/s)	-8.1214983E-08	Resid phdelay (usec)	3.33170E-06	+/-	1.7E-07
Delay rate (us/s)	-2.22771689974E-03	Apriori rate (us/s)	-2.22855032080E-03	Resid rate (us/s)	8.33421E-07	+/-	1.6E-09
Total phase (deg)	158.6	Apriori accel (us/s/s)	-2.54896713809E-05	Resid phase (deg)	103.3	+/-	5.3

ph/seg (deg)	84.4	Theor.	12.4	Search (1024X32)	0.572	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	180.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-1.000 1.000
ph/frq (deg)	44.6	Inc. seg. avg.	0.955	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
amp/frq (%)	34.3	Inc. frq. avg.	0.744	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 67.7 el 38.1 pa -121.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) -2.755 -9013.173 simultaneous interpolator

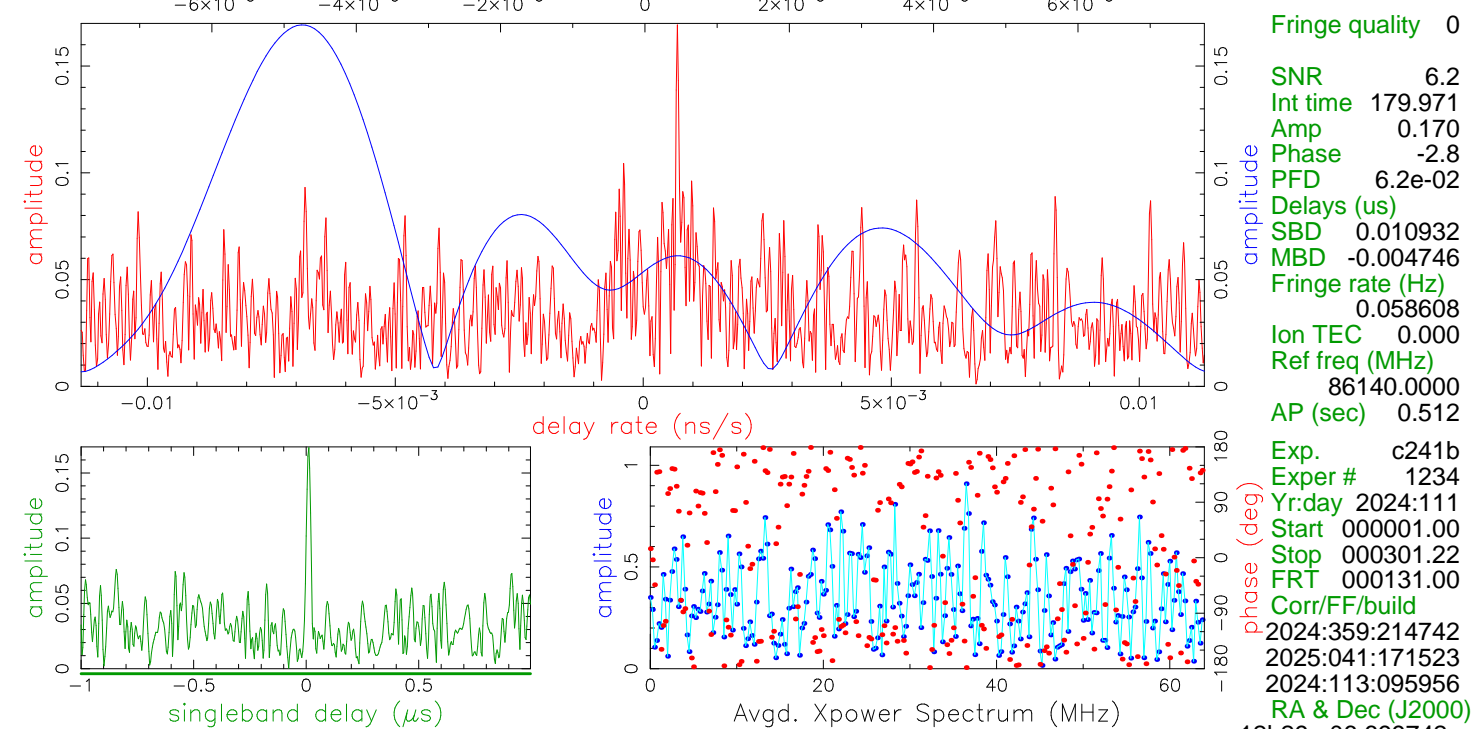
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//AG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//AG.W.6.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

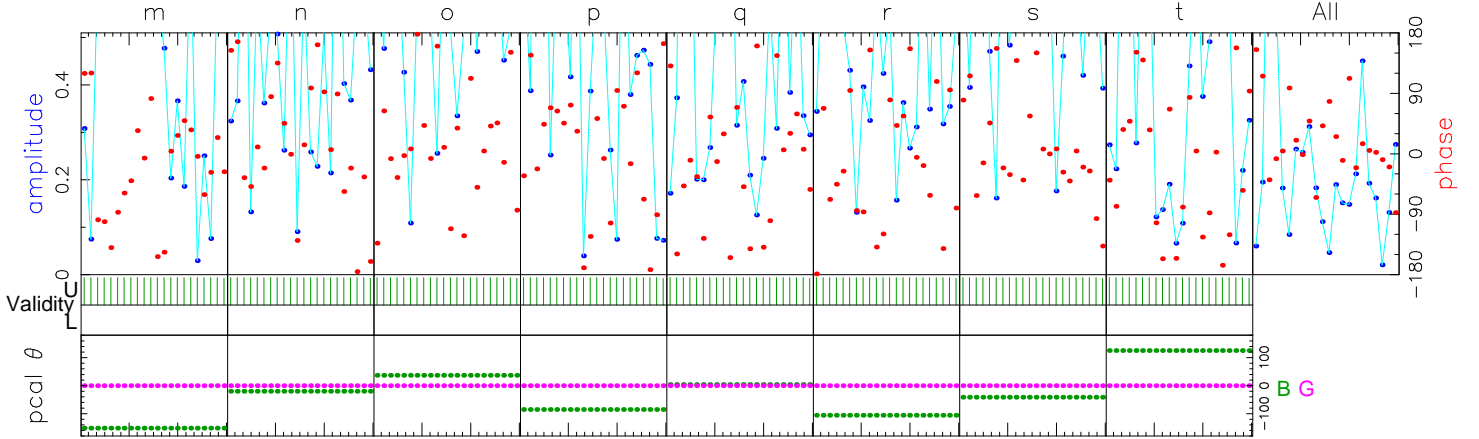
aux01

3C273.3MP1LL, No0627, BG

EFLSBERG - GBT_COLD, fgroup W, pol LL



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
	-38.8	31.8	-2.6	31.3	-22.7	-40.1	-13.7	31.4	Phase	-2.8
	0.2	0.1	0.2	0.3	0.2	0.1	0.3	0.1	Ampl.	0.2
	200.7	155.0	262.2	138.3	280.1	271.1	259.8	196.2	Sbd box	259.8
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	
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)	3.29877636160E+03	Apriori delay (usec)	3.29876548278E+03	Resid mbdelay (usec)	-4.74618E-03	+/-	1.7E-04
Sband delay (usec)	3.29877641503E+03	Apriori clock (usec)	-2.0765398E+01	Resid sbdelay (usec)	1.09322E-02	+/-	1.4E-03
Phase delay (usec)	3.29876548269E+03	Apriori clockrate (us/s)	-2.5992208E-07	Resid phdelay (usec)	-8.98410E-08	+/-	5.9E-07
Delay rate (us/s)	-1.50430597206E+00	Apriori rate (us/s)	-1.50430665244E+00	Resid rate (us/s)	6.80381E-07	+/-	5.7E-09
Total phase (deg)	244.3	Apriori accel (us/s/s)	-1.70838789639E-05	Resid phase (deg)	-2.8	+/-	18.4

ph/seg (deg)	RMS 63.3	Theor. 43.2	Amplitude Search (1024X32)	0.170 +/- 0.027	0.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	130.1	75.3	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)	33.5	26.0	Inc. seg. avg.	0.186	0.172	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	48.3	45.4	Inc. frq. avg.	0.172	0.172	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 215.3 el 36.0 pa 21.7 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) 8611.589 1282.910 simultaneous interpolator

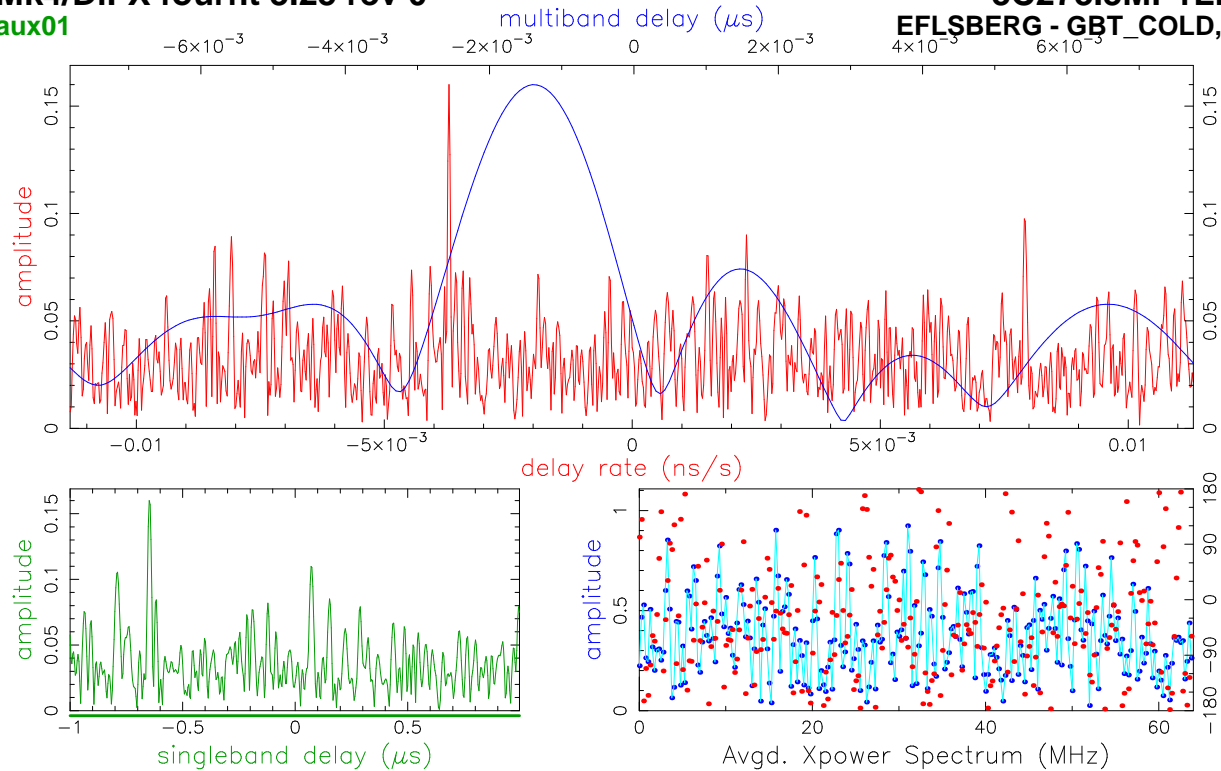
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//BG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//BG.W.21.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

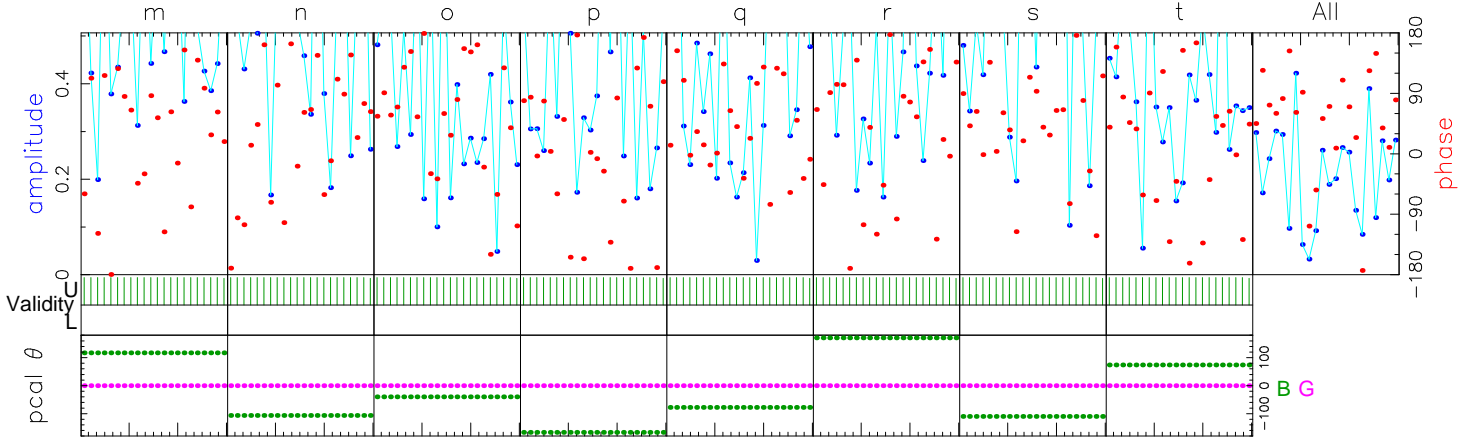
3C273.3MP1LL, No0627, BG

EFLSBERG - GBT_COLD, fgroup W, pol RR



Fringe quality 0
 SNR 5.9
 Int time 179.971
 Amp 0.169
 Phase 71.1
 PFD 3.2e-01
 Delays (us)
 SBD -0.647005
 MBD -0.001372
 Fringe rate (Hz)
 -0.319484
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171525
 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	
	50.7	99.6	79.4	67.0	41.3	102.9	67.7	68.0	Phase	71.1	
	0.2	0.2	0.2	0.1	0.2	0.1	0.4	0.1	Ampl.	0.2	
	93.9	241.6	339.8	386.3	506.4	15.8	91.1	52.2	Sbd box	91.4	
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	3.29812348548E+03		Apriori delay (usec)		3.29876548278E+03		Resid mbdelay (usec)		-1.37229E-03	+/- 1.8E-04	
Sband delay (usec)	3.29811847778E+03		Apriori clock (usec)		-2.0765398E+01		Resid sbdelay (usec)		-6.47005E-01	+/- 1.5E-03	
Phase delay (usec)	3.29876548507E+03		Apriori clockrate (us/s)		-2.5992208E-07		Resid phdelay (usec)		2.29251E-06	+/- 6.2E-07	
Delay rate (us/s)	-1.50431036133E+00		Apriori rate (us/s)		-1.50430665244E+00		Resid rate (us/s)		-3.70889E-06	+/- 6.0E-09	
Total phase (deg)			318.2		Apriori accel (us/s/s)		-1.70838789639E-05		71.1	+/- 19.3	
RMS	Theor.	Amplitude	0.169 +/- 0.028		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	65.3	45.3	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000	
amp/seg (%)	70.8	79.1	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	23.2	27.3	Inc. seg. avg.	0.169	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011	0.011	
amp/frq (%)	47.5	47.7	Inc. frq. avg.	0.159	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
B: az 215.3 el 36.0 pa 21.7		G: az 109.0 el 25.2 pa -47.8		u,v (fr/asec) 8611.589 1282.910						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0627//BG..3MP1LL		Output file: /Exps/c241b/v2/3mm/1234/No0627//BG.W.29.3MP1LL							

Mk4/DiFX fourfit 3.25 rev 0

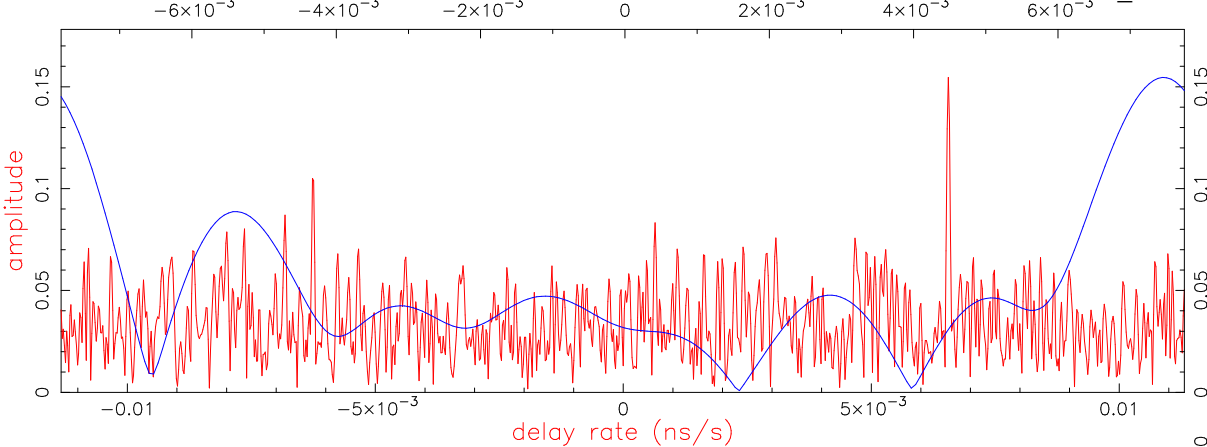
aux01

3C273.3MP1LL, No0627, BG

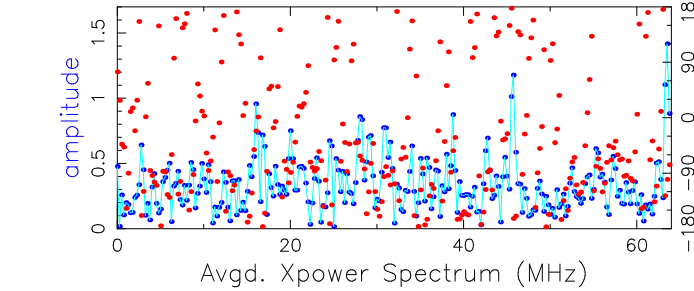
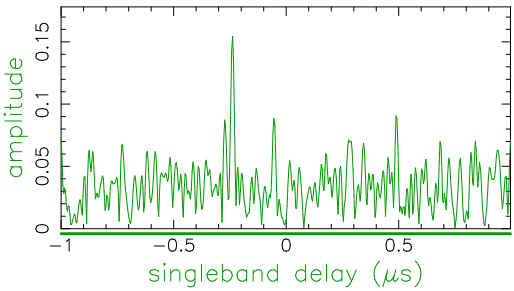
EFLSBERG - GBT_COLD, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

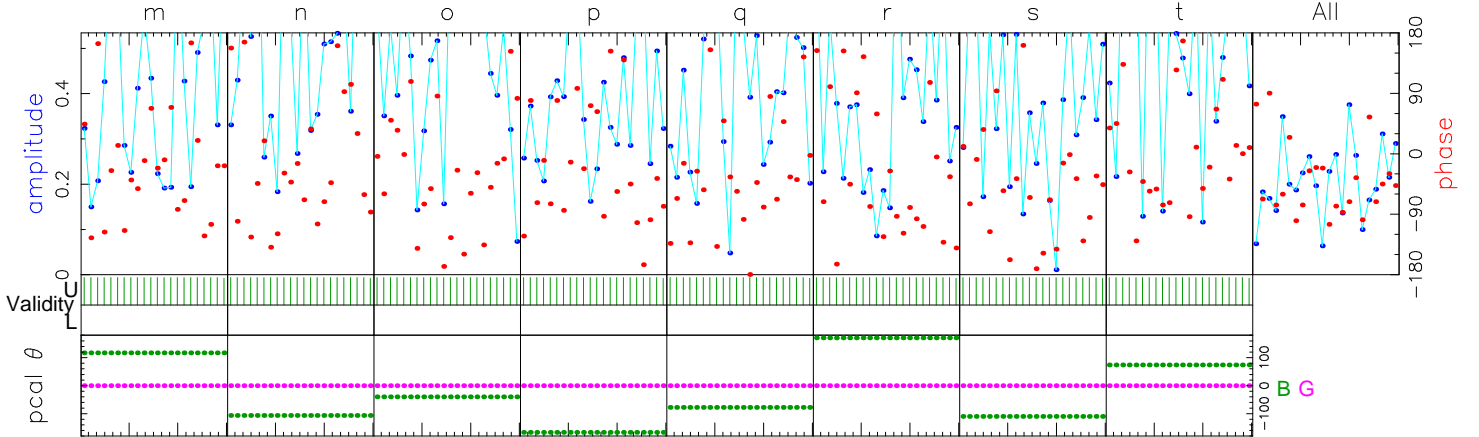


SNR 5.7
 Int time 179.971
 Amp 0.178
 Phase -52.7
 PFD 8.2e-01
 Delays (us)
 SBD -0.238531
 MBD 0.007465
 Fringe rate (Hz)
 0.564992
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171529
 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
	-40.6	-60.6	-35.7	-64.1	-67.3	-125.8	-56.4	-18.1	Phase	-52.7
	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.2	Ampl.	0.2
	186.5	186.8	450.7	214.8	511.5	34.2	98.8	124.6	Sbd box	195.9
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	
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)	3.29852294772E+03	Apriori delay (usec)	3.29876548278E+03	Resid mbdelay (usec)	7.46495E-03	+/-	1.9E-04
Sband delay (usec)	3.29852695203E+03	Apriori clock (usec)	-2.0765398E+01	Resid sbdelay (usec)	-2.38531E-01	+/-	1.5E-03
Phase delay (usec)	3.29876548108E+03	Apriori clockrate (us/s)	-2.5992208E-07	Resid phdelay (usec)	-1.69989E-06	+/-	6.5E-07
Delay rate (us/s)	-1.50430009345E+00	Apriori rate (us/s)	-1.50430665244E+00	Resid rate (us/s)	6.55899E-06	+/-	6.3E-09
Total phase (deg)	194.3	Apriori accel (us/s/s)	-1.70838789639E-05	Resid phase (deg)	-52.7	+/-	20.2

ph/seg (deg)	RMS 55.9	Theor. 47.4	Amplitude Search (1024X32)	0.178 +/- 0.031	0.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	62.4	82.7	Interp.	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	35.1	28.6	Inc. seg. avg.	0.179	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
amp/frq (%)	30.8	49.9	Inc. frq. avg.	0.177				ion window (TEC)	0.00	0.00

B: az 215.3 el 36.0 pa 21.7 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) 8611.589 1282.910 simultaneous interpolator

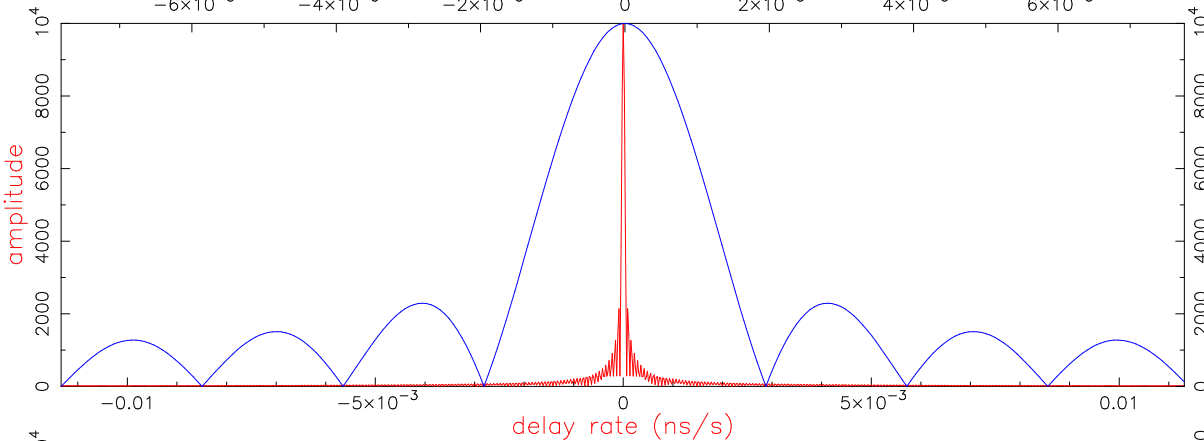
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//BG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//BG.W.41.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GG

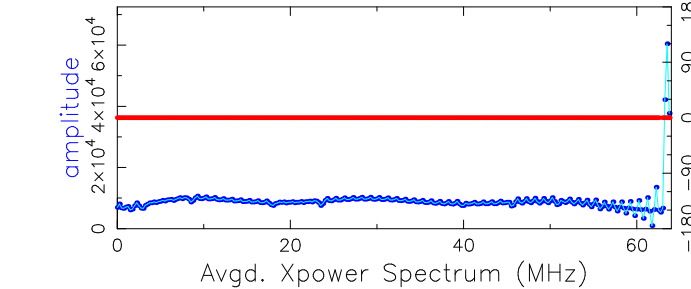
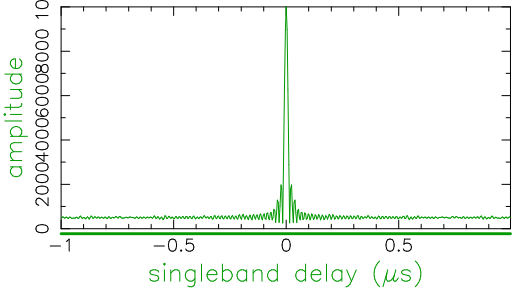
GBT_COLD - GBT_COLD, fgroup W, pol LL



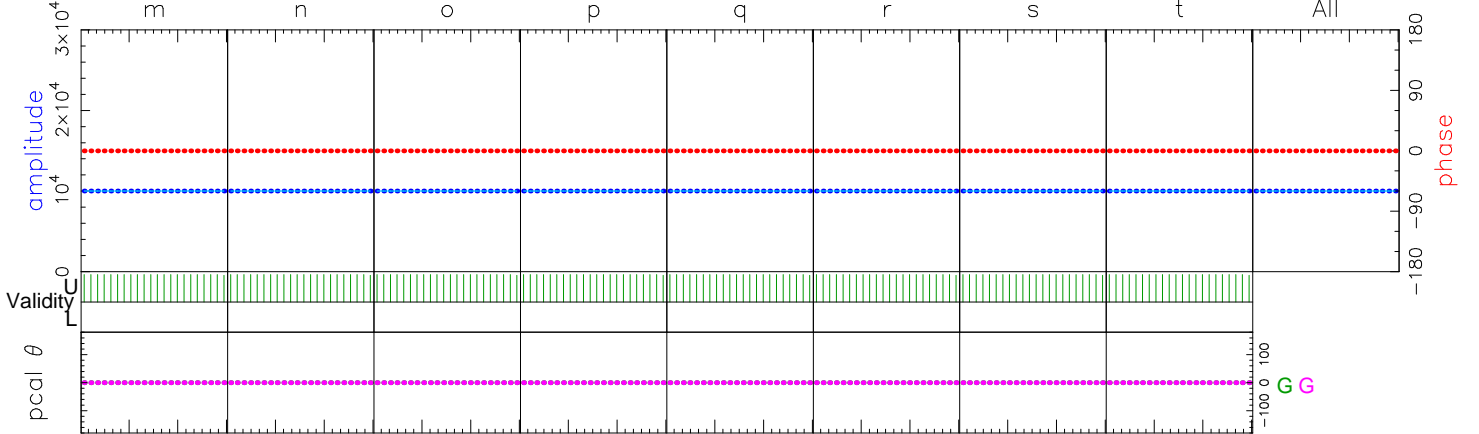
Fringe quality 9

SNR 366879.1
 Int time 179.991
 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 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171535
 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
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.3E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.0E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 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
 G: az 109.0 el 25.2 pa -47.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GG.W.55.3MP1LL simultaneous interpolator

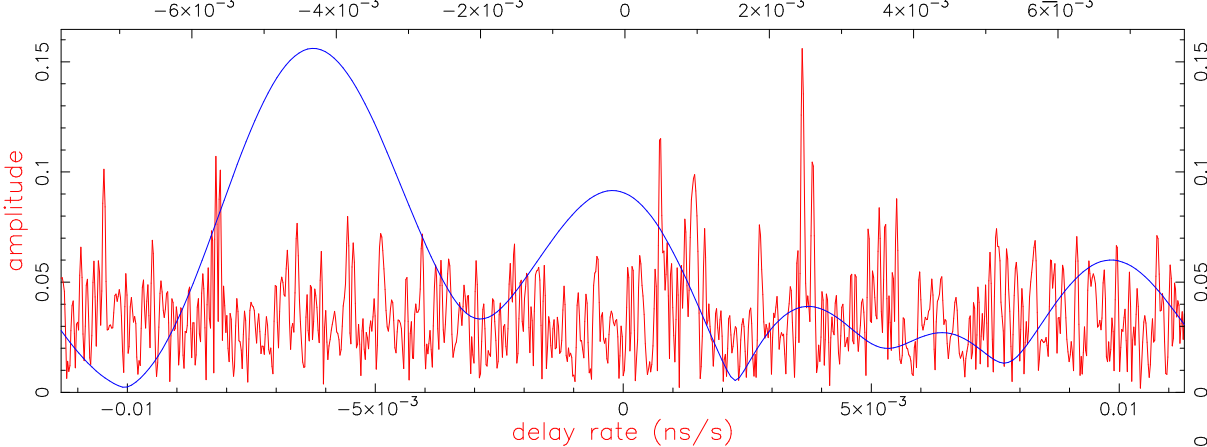
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, Gg

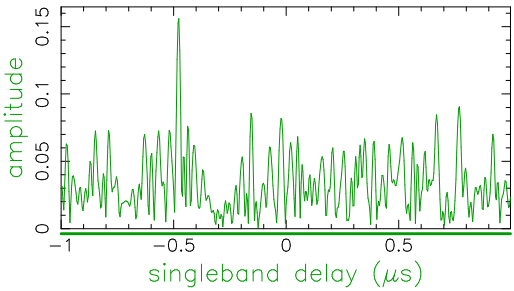
GBT_COLD - GLT, fgroup W, pol LL

multiband delay (μ s)

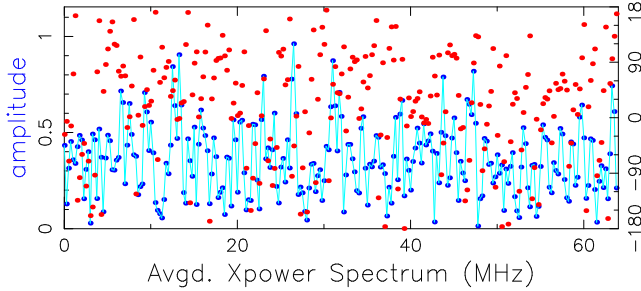


Fringe quality 0

SNR 5.8
Int time 179.991
Amp 0.165
Phase -11.8
PFD 5.8e-01
Delays (us)
SBD -0.478007
MBD -0.004363
Fringe rate (Hz) 0.311969
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

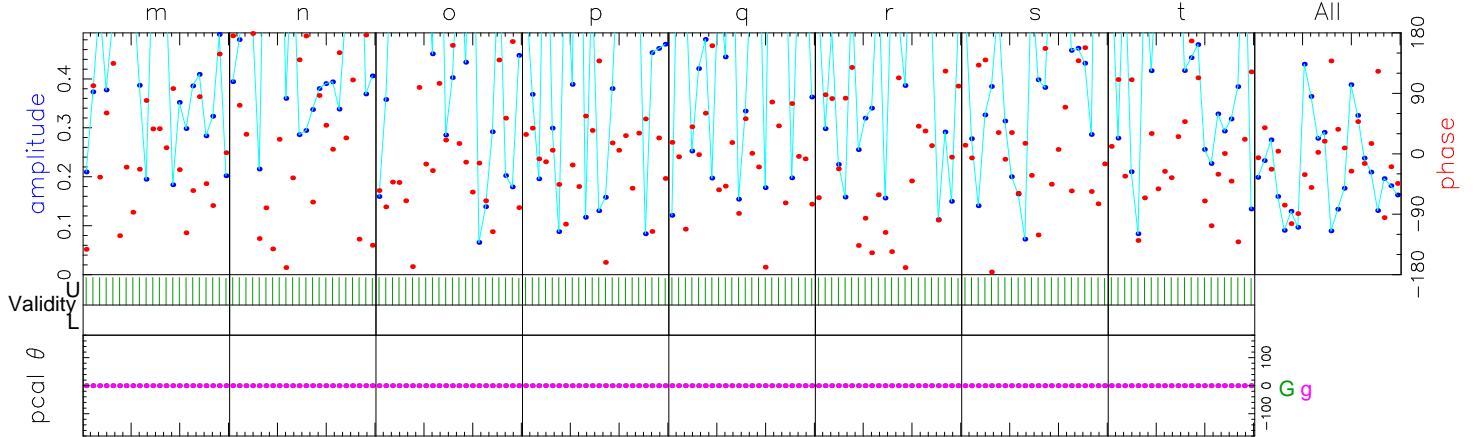


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 000001.00
Stop 000301.22
FRT 000131.00
Corr/FF/build
2024:359:214742
2025:041:171536
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
	-3.2	-151.1	-40.9	-8.7	-1.7	33.5	-20.4	-12.3	Phase	-11.8
	0.1	0.0	0.2	0.3	0.3	0.0	0.2	0.2	Ampl.	0.2
	368.2	261.6	58.3	134.9	135.0	47.7	452.4	136.0	Sbd box	134.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G:g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	5.08860801404E+03	Apriori delay (usec)	5.08908112714E+03	Resid mbdelay (usec)	-4.36311E-03	+/-	1.9E-04
Sband delay (usec)	5.08860311964E+03	Apriori clock (usec)	-1.4952452E+01	Resid sbdelay (usec)	-4.78007E-01	+/-	1.5E-03
Phase delay (usec)	5.08908112676E+03	Apriori clockrate (us/s)	-7.1393889E-07	Resid phdelay (usec)	-3.80472E-07	+/-	6.4E-07
Delay rate (us/s)	7.70569845607E-01	Apriori rate (us/s)	7.70566223959E-01	Resid rate (us/s)	3.62165E-06	+/-	6.1E-09
Total phase (deg)	93.4	Apriori accel (us/s/s)	-2.84676192914E-05	Resid phase (deg)	-11.8	+/-	19.8

ph/seg (deg)	RMS 60.5	Theor. 46.4	Amplitude Search (1024X32)	0.165 +/- 0.028	0.150	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.2	81.0	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)	61.3	28.0	Inc. seg. avg.	0.171	0.155	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	63.4	48.8	Inc. frq. avg.	0.155	0.155	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011	
G: az 109.0 el 25.2 pa -47.8	g: az 131.2 el 10.9 pa -10.1	u, v (fr/asec)	-4431.130 -3187.724			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

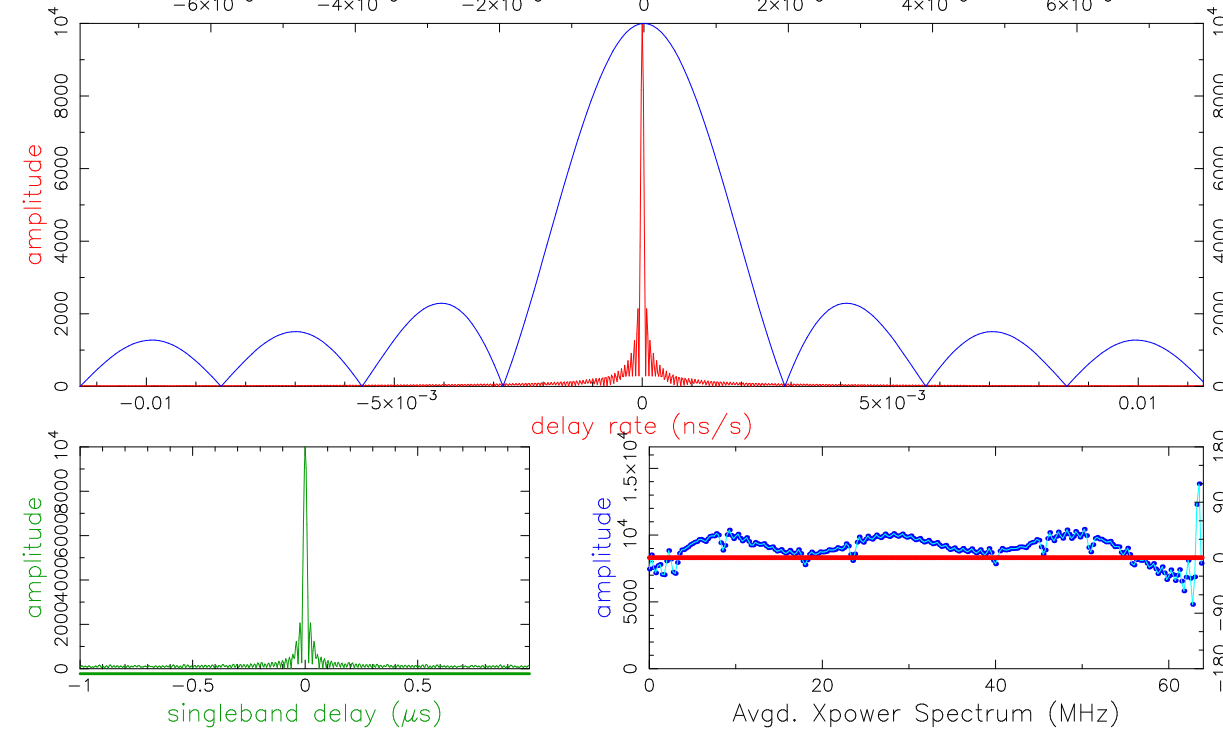
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gg..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gg.W.60.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

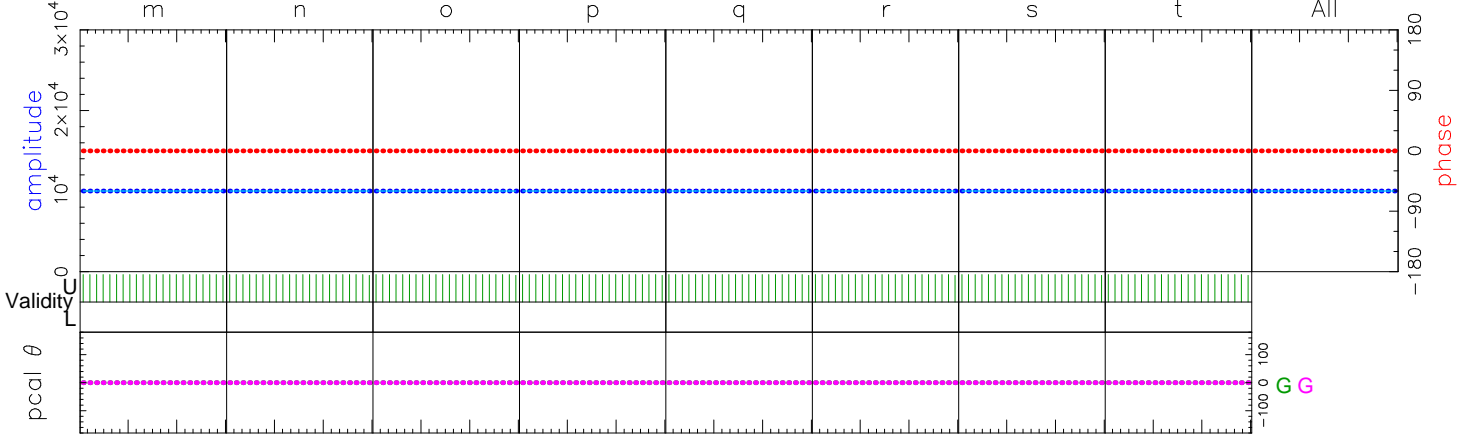
3C273.3MP1LL, No0627, GG

GBT_COLD - GBT_COLD, fgroup W, pol RR



Fringe quality 9
 SNR 366879.1
 Int time 179.991
 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 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171537
 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		
G	0	0	0	0	0	0	0	0		
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

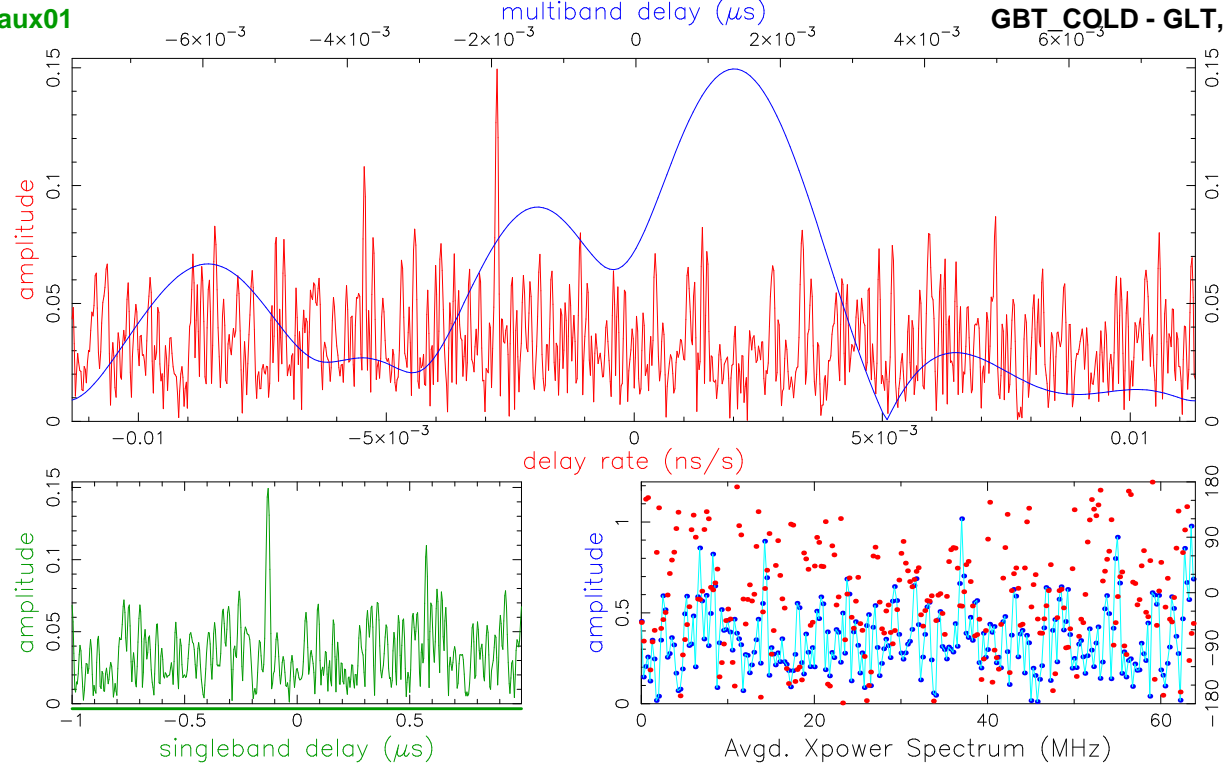
Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	3.0E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.3E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (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
 G: az 109.0 el 25.2 pa -47.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GG.W.64.3MP1LL simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

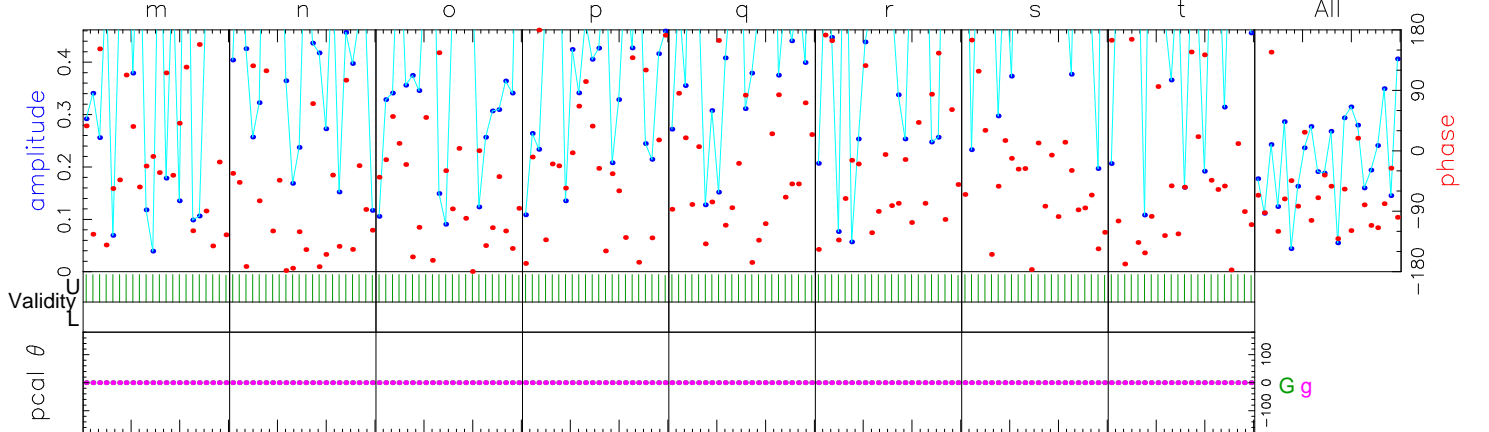
aux01

3C273.3MP1LL, No0627, Gg
GBT_COLD - GLT, fgroup W, pol RR



Fringe quality 0
SNR 5.5
Int time 179.991
Amp 0.154
Phase -77.6
PFD 9.9e-01
Delays (us)
SBD -0.129905
MBD 0.001320
Fringe rate (Hz)
-0.238684
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 000001.00
Stop 000301.22
FRT 000131.00
Corr/FF/build
2024:359:214742
2025:041:171538
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



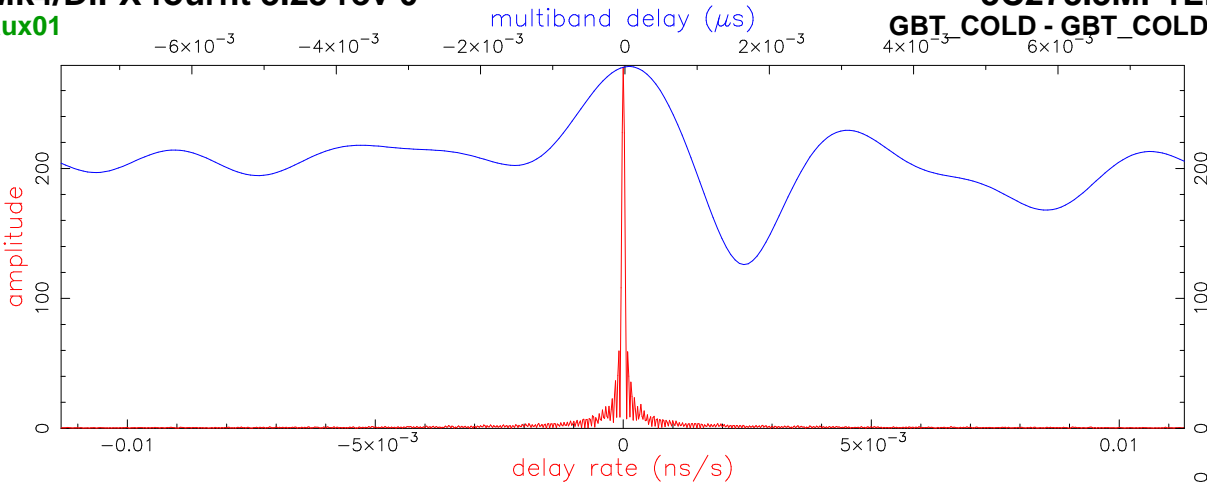
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-81.4	-116.8	-83.3	-80.8	-35.3	-76.6	-58.1	-115.8	Phase	-77.6	
	0.1	0.1	0.2	0.0	0.2	0.2	0.3	0.2	Ampl.	0.2	
	291.3	59.4	135.8	143.5	486.4	29.5	224.8	404.1	Sbd box	223.7	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
G	0	0	0	0	0	0	0	0	PC freqs		
g	0	0	0	0	0	0	0	0	PC freqs		
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
G:g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
g	1000	1000	1000	1000	1000	1000	1000	1000			
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec) (SBD)	5.08895744738E+03		Apriori delay (usec)		5.08908112714E+03		Resid mbdelay (usec)		1.32023E-03	+/- 2.0E-04	
Sband delay (usec)	5.08895122214E+03		Apriori clock (usec)		-1.4952452E+01		Resid sbdelay (usec)		-1.29905E-01	+/- 1.6E-03	
Phase delay (usec)	5.08908112464E+03		Apriori clockrate (us/s)		-7.1393889E-07		Resid phdelay (usec)		-2.50303E-06	+/- 6.7E-07	
Delay rate (us/s)	7.70563453079E-01		Apriori rate (us/s)		7.70566223959E-01		Resid rate (us/s)		-2.77088E-06	+/- 6.4E-09	
Total phase (deg)			Apriori accel (us/s/s)		-2.84676192914E-05		Resid phase (deg)		-77.6	+/- 20.8	
	RMS	Theor.	Amplitude	0.154 +/- 0.028		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	50.3	48.8	Search (1024X32)	0.146		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	73.7	85.1	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	29.5	29.4	Inc. seg. avg.	0.162		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	51.5	51.3	Inc. frq. avg.	0.151		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
G: az 109.0 el 25.2 pa -47.8	g: az 131.2 el 10.9 pa -10.1		u, v (fr/asec)		-4431.130 -3187.724				simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0627//Gg..3MP1LL		Output file: /Exps/c241b/v2/3mm/1234/No0627//Gg.W.69.3MP1LL								

Mk4/DiFX fourfit 3.25 rev 0

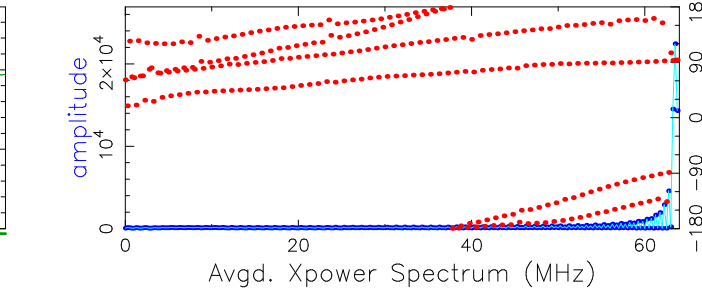
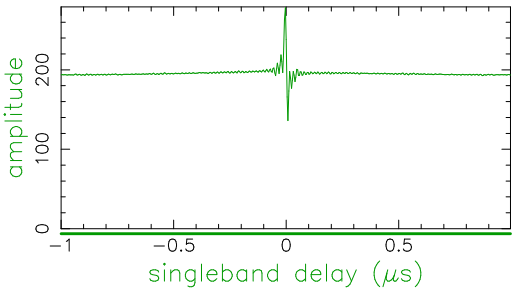
aux01

3C273.3MP1LL, No0627, GG

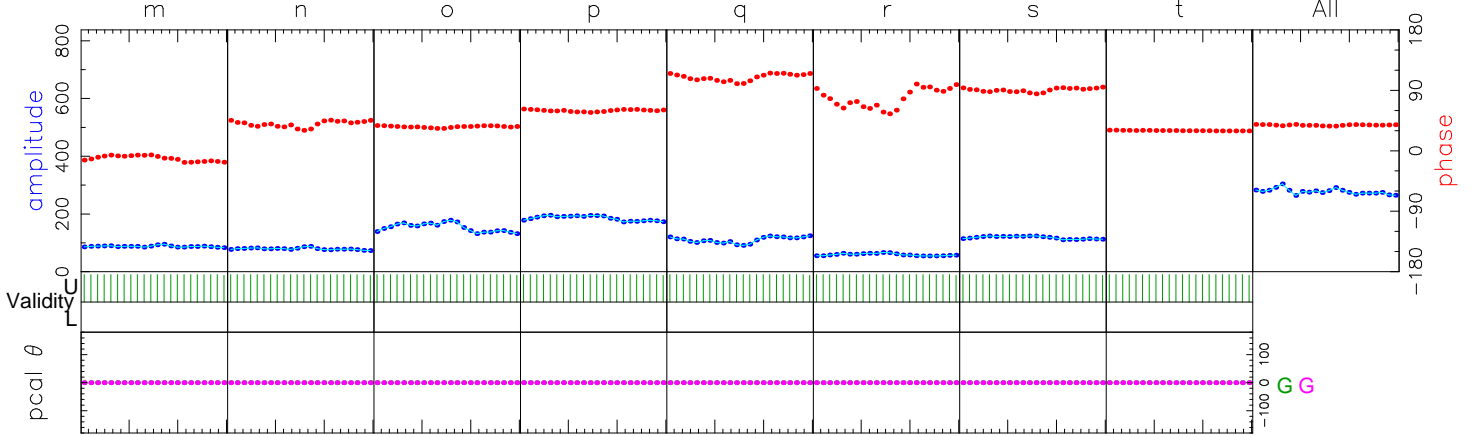
GBT_COLD - GBT_COLD, fgroup W, pol LR



Fringe quality 5
 Error code G
 SNR 10249.0
 Int time 179.991
 Amp 279.355
 Phase 38.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.004723
 MBD 0.000127
 Fringe rate (Hz)
 0.000022
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171539
 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
	-11.3	39.8	35.7	59.8	109.8	77.5	90.4	30.0	Phase	38.2
	87.7	79.4	153.5	185.5	110.1	57.7	118.2	1627.3	Ampl.	302.4
	257.1	256.9	257.5	257.6	257.5	255.9	257.0	255.5	Sbd box	255.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.27500000000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.27500E-04	+/-	1.1E-07
Sband delay (usec)	-4.72275000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-4.72275E-03	+/-	8.4E-07
Phase delay (usec)	1.23151712181E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.23152E-06	+/-	3.6E-10
Delay rate (us/s)	2.52246512572E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.52247E-10	+/-	3.5E-12
Total phase (deg)	38.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	38.2	+/-	0.0

ph/seg (deg) 0.7 0.0 Search (1024X32) 278.222 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 3.3 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.4 0.0 Inc. seg. avg. 278.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 180.0 0.0 Inc. frq. avg. 302.413 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 109.0 el 25.2 pa -47.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GG.W.72.3MP1LL

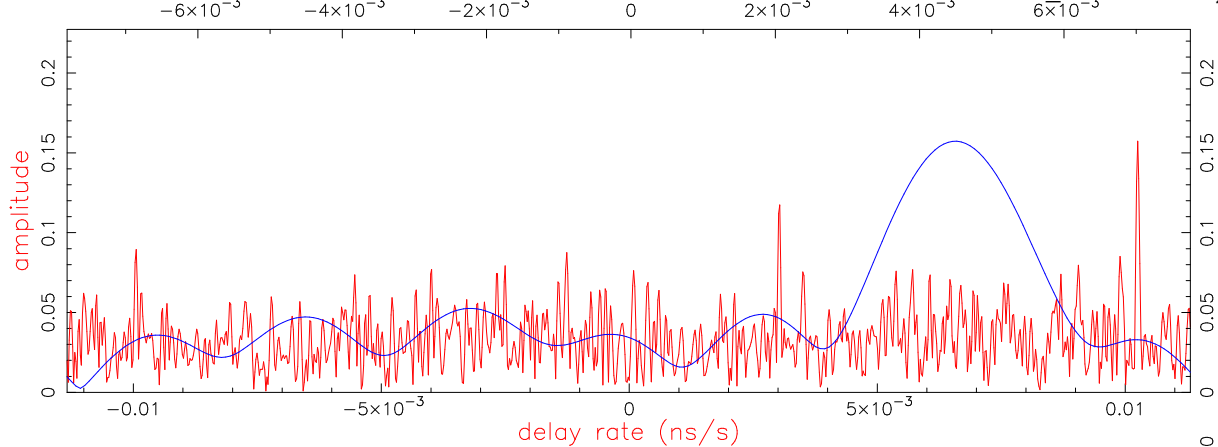
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, Gg

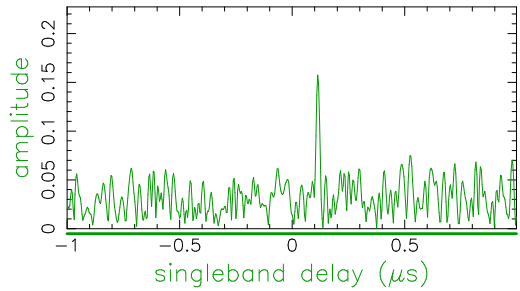
GBT_COLD - GLT, fgroup W, pol LR

multiband delay (μ s)

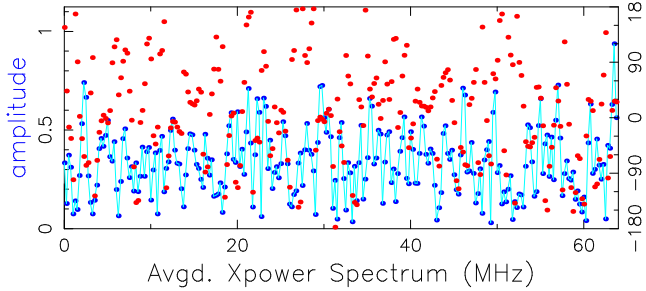


Fringe quality 0

SNR 5.8
 Int time 179.991
 Amp 0.227
 Phase -165.0
 PFD 5.6e-01
 Delays (us)
 SBD 0.114165
 MBD 0.004494
 Fringe rate (Hz) 0.884026
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

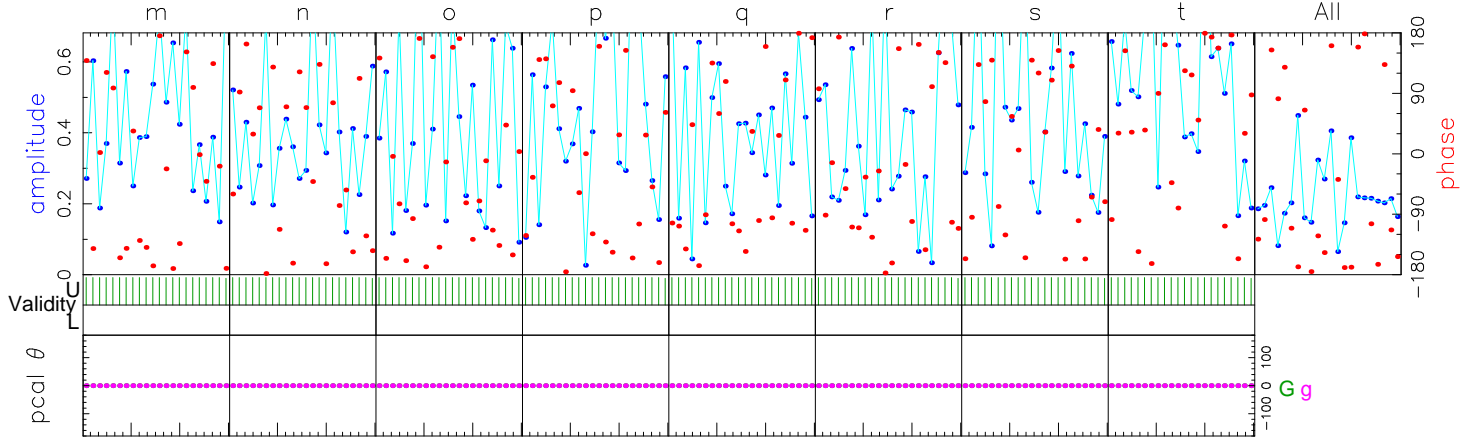


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171540
 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
	-178.6	173.5	-150.7	-170.5	-148.7	-137.0	179.8	172.8	Phase	-165.0
	0.3	0.1	0.3	0.2	0.2	0.3	0.2	0.3	Ampl.	0.2
	477.6	379.9	206.2	269.0	326.1	499.5	146.1	207.5	Sbd box	286.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G:g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD) 5.08919499609E+03 Apriori delay (usec) 5.08908112714E+03 Resid mbdelay (usec) 4.49394E-03 +/- 1.9E-04
 Sband delay (usec) 5.08919529189E+03 Apriori clock (usec) -1.4952452E+01 Resid sbdelay (usec) 1.14165E-01 +/- 1.5E-03
 Phase delay (usec) 5.08908112182E+03 Apriori clockrate (us/s) -7.1393889E-07 Resid phdelay (usec) -5.32027E-06 +/- 6.4E-07
 Delay rate (us/s) 7.70576486625E-01 Apriori rate (us/s) 7.70566223959E-01 Resid rate (us/s) 1.02627E-05 +/- 6.1E-09
 Total phase (deg) -59.8 Apriori accel (us/s/s) -2.84676192914E-05 Resid phase (deg) -165.0 +/- 19.8

RMS Theor. Amplitude 0.227 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 58.9 46.3 Search (1024X32) 0.149 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.8 80.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 21.0 27.9 Inc. seg. avg. 0.240 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 30.8 48.8 Inc. frq. avg. 0.213 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

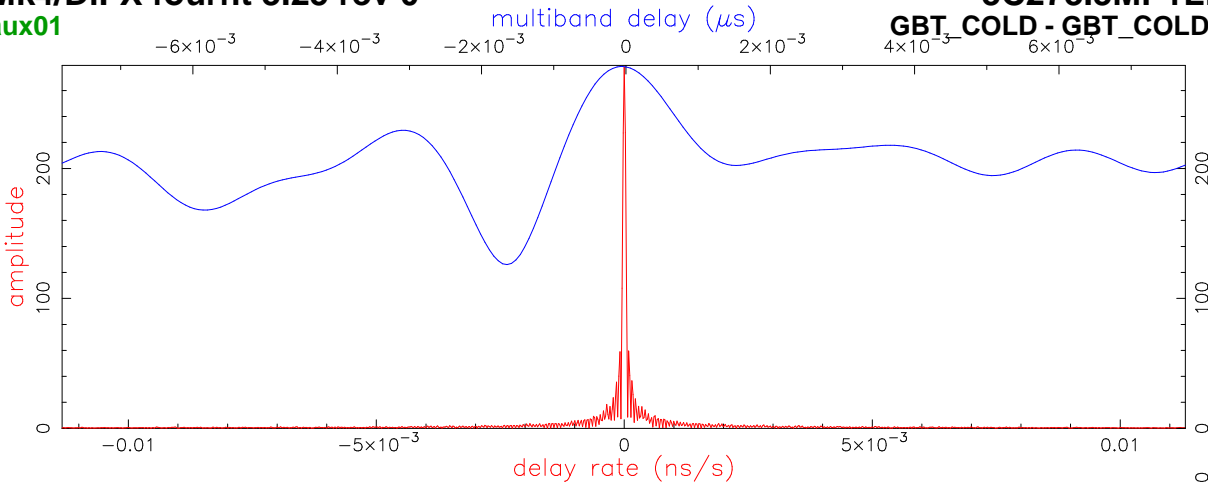
G: az 109.0 el 25.2 pa -47.8 g: az 131.2 el 10.9 pa -10.1 u,v (fr/asec) -4431.130 -3187.724 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gg..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gg.W.80.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

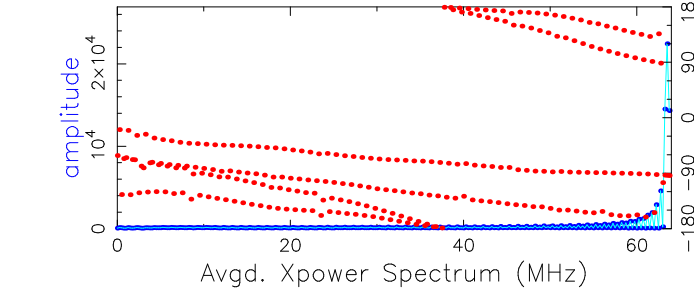
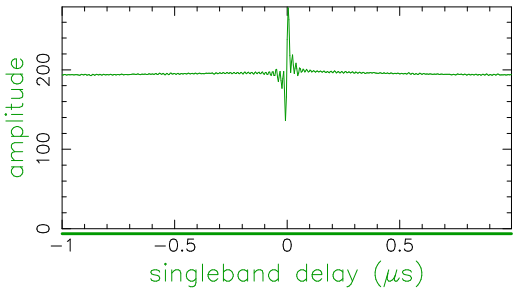
aux01

3C273.3MP1LL, No0627, GG

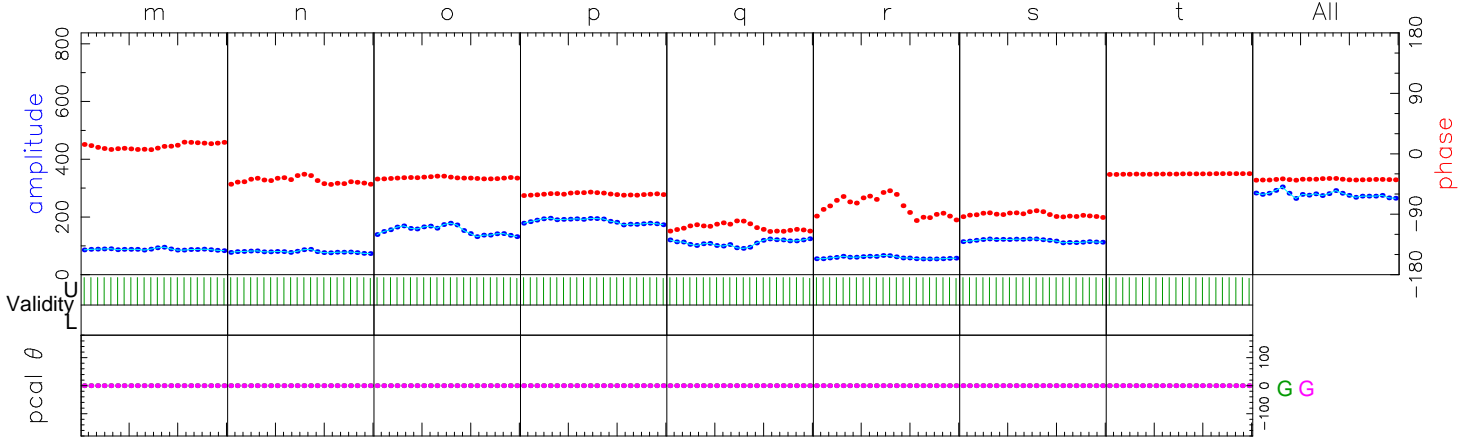
GBT_COLD - GBT_COLD, fgroup W, pol RL



Fringe quality 5
 Error code G
 SNR 10249.0
 Int time 179.991
 Amp 279.355
 Phase -38.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.004723
 MBD -0.000127
 Fringe rate (Hz)
 -0.000022
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171541
 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
	11.3	-39.8	-35.7	-59.8	-109.8	-77.5	-90.4	-30.0	Phase	-38.2
	87.7	79.4	153.5	185.5	110.1	57.7	118.2	1627.3	Ampl.	302.4
	256.9	257.1	256.5	256.4	256.5	258.1	257.0	258.5	Sbd box	258.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -1.2750000000E-04 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -1.27500E-04 +/- 1.1E-07
 Sband delay (usec) 4.7227500000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 4.72275E-03 +/- 8.4E-07
 Phase delay (usec) -1.23151712172E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.23152E-06 +/- 3.6E-10
 Delay rate (us/s) -2.52246512572E-10 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) -2.52247E-10 +/- 3.5E-12
 Total phase (deg) -38.2 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -38.2 +/- 0.0

RMS Theor. Amplitude 279.355 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.7 0.0 Search (1024X32) 278.222 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 3.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.4 0.0 Inc. seg. avg. 278.113 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 180.0 0.0 Inc. frq. avg. 302.413 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 G: az 109.0 el 25.2 pa -47.8 G: az 109.0 el 25.2 pa -47.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GG..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GG.W.83.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

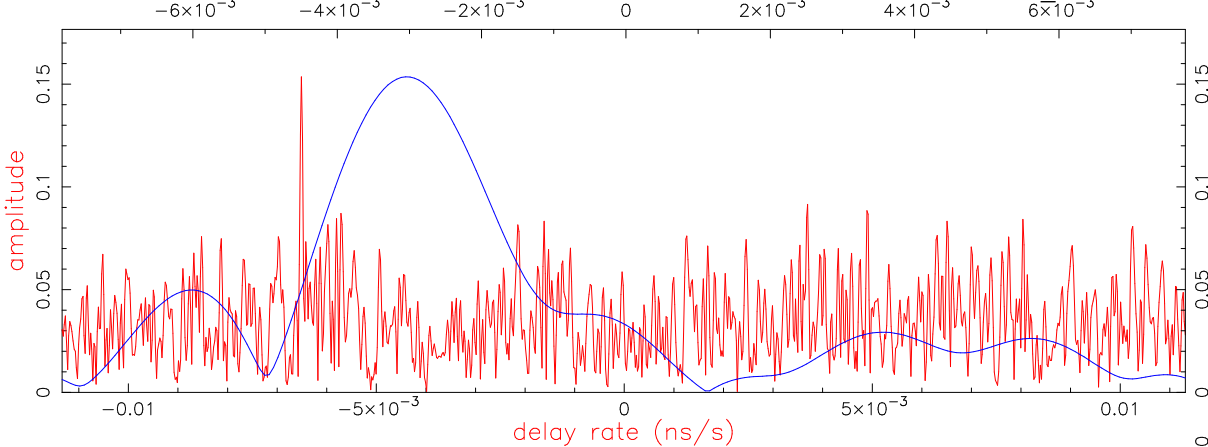
aux01

3C273.3MP1LL, No0627, Gg

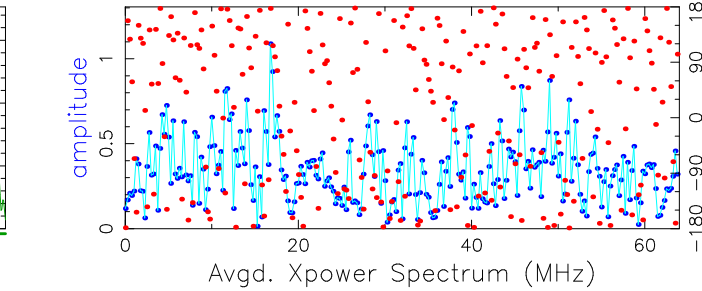
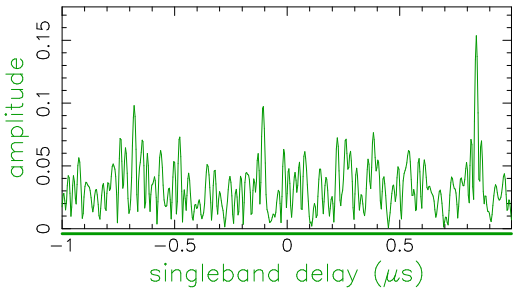
GBT_COLD - GLT, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

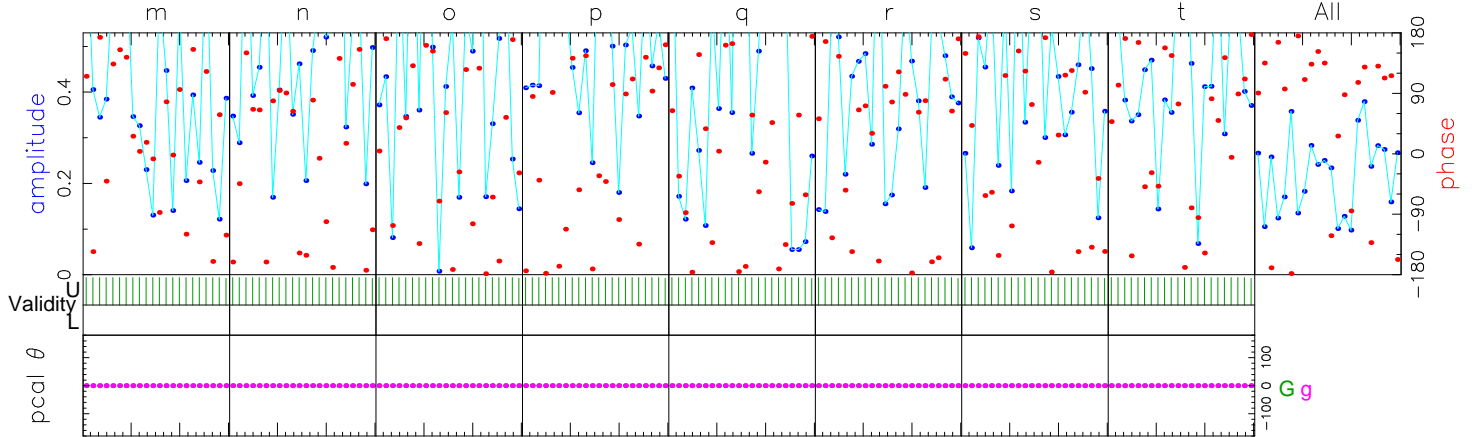


SNR 5.6
 Int time 179.991
 Amp 0.177
 Phase 143.8
 PFD 8.8e-01
 Delays (us)
 SBD 0.839976
 MBD -0.003032
 Fringe rate (Hz)
 -0.561148
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171542
 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		
G	0	0	0	0	0	0	0	0		
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:g	1000	1000	1000	1000	1000	1000	1000	1000		
G:g	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
G	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL		

Group delay (usec) (SBD)	5.08992184548E+03	Apriori delay (usec)	5.08908112714E+03	Resid mbdelay (usec)	-3.03166E-03	+/-	1.9E-04
Sband delay (usec)	5.08992110339E+03	Apriori clock (usec)	-1.4952452E+01	Resid sbdelay (usec)	8.39976E-01	+/-	1.5E-03
Phase delay (usec)	5.08908113178E+03	Apriori clockrate (us/s)	-7.1393889E-07	Resid phdelay (usec)	4.63768E-06	+/-	6.6E-07
Delay rate (us/s)	7.70559709589E-01	Apriori rate (us/s)	7.70566223959E-01	Resid rate (us/s)	-6.51437E-06	+/-	6.3E-09
Total phase (deg)	249.0	Apriori accel (us/s/s)	-2.84676192914E-05	Resid phase (deg)	143.8	+/-	20.3

ph/seg (deg) 55.9 47.7 Search (1024X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.8 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.4 28.8 Inc. seg. avg. 0.189 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 19.7 50.2 Inc. frq. avg. 0.165 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 109.0 el 25.2 pa -47.8 g: az 131.2 el 10.9 pa -10.1 u,v (fr/asec) -4431.130 -3187.724 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gg..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gg.W.93.3MP1LL

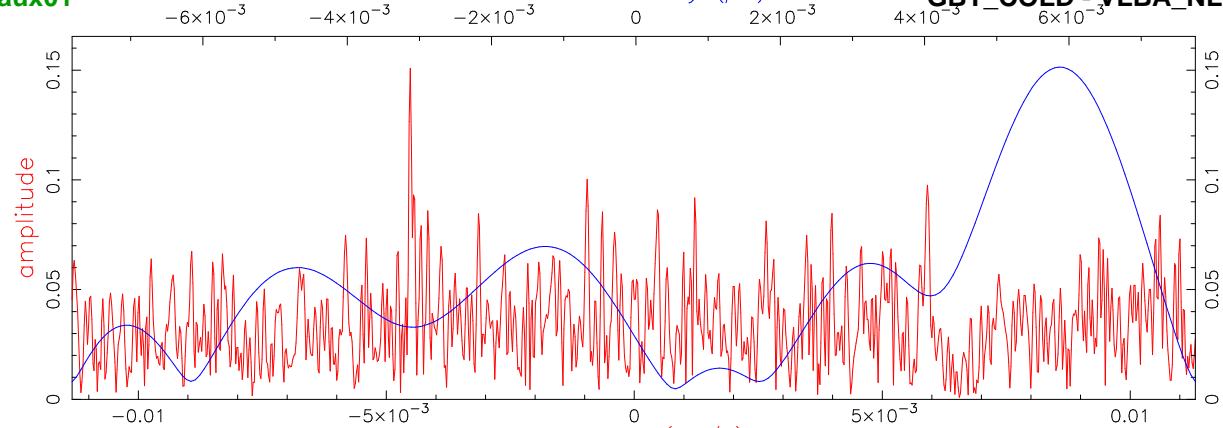
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, Gn

GBT_COLD - VLBA_NL, fgroup W, pol LL

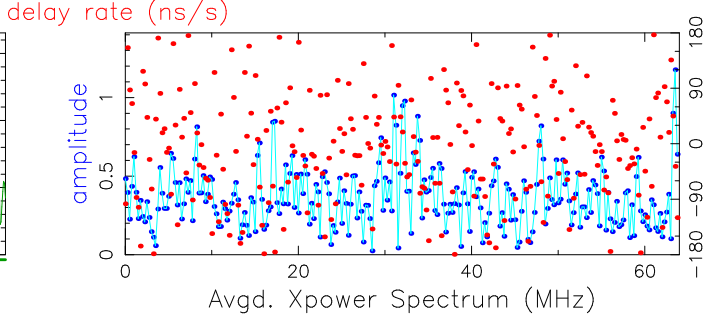
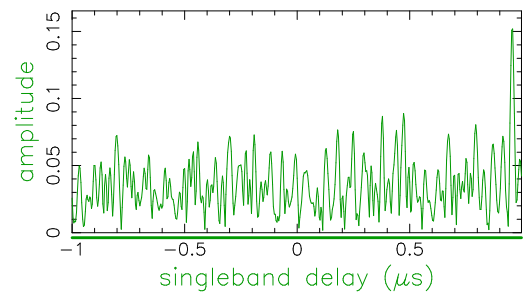
multiband delay (μ s)



Fringe quality 0

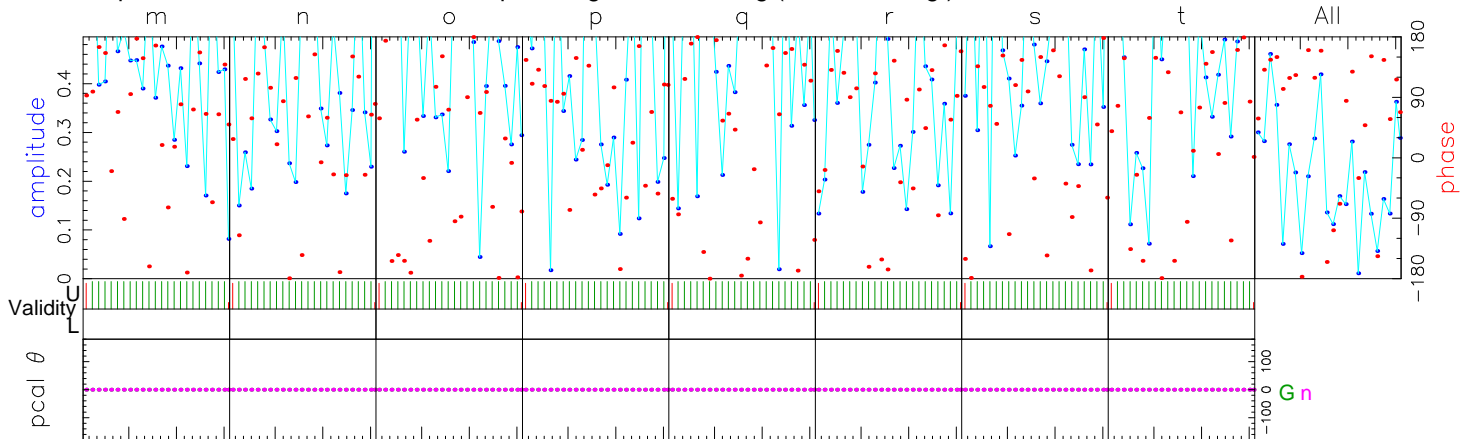
SNR 5.6
 Int time 177.938
 Amp 0.165
 Phase 129.8
 PFD 8.7e-01
 Delays (us)
 SBD 0.955217
 MBD 0.005785
 Fringe rate (Hz) -0.390443
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000002.54
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171555
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 24 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
	108.5	100.3	-176.5	85.5	171.3	128.1	126.3	120.3	Phase	129.8
	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	Ampl.	0.2
	280.4	275.5	281.7	8.1	378.0	289.3	391.3	88.8	Sbd box	501.5
U/L	349/0	349/0	349/0	349/0	349/0	349/0	349/0	349/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	3.29899507429E+03	Apriori delay (usec)	3.29803616440E+03	Resid mbdelay (usec)	5.78489E-03	+/-	1.9E-04
Sband delay (usec)	3.29899138140E+03	Apriori clock (usec)	-1.4334543E+01	Resid sbdelay (usec)	9.55217E-01	+/-	1.5E-03
Phase delay (usec)	3.29803616859E+03	Apriori clockrate (us/s)	-2.2687689E-07	Resid phdelay (usec)	4.18482E-06	+/-	6.5E-07
Delay rate (us/s)	-5.29422055363E-02	Apriori rate (us/s)	-5.29376728790E-02	Resid rate (us/s)	-4.53266E-06	+/-	6.3E-09
Total phase (deg)	202.4	Apriori accel (us/s/s)	-1.77799255900E-05	Resid phase (deg)	129.8	+/-	20.3

ph/seg (deg) 67.7 49.7 Search (1024X32) 0.150 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.7 86.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.5 28.7 Inc. seg. avg. 0.165 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.6 50.1 Inc. frq. avg. 0.167 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

G: az 109.0 el 25.2 pa -47.8 n: az 101.8 el 15.7 pa -46.9 u,v (fr/asec) 294.013 -441.133 simultaneous interpolator

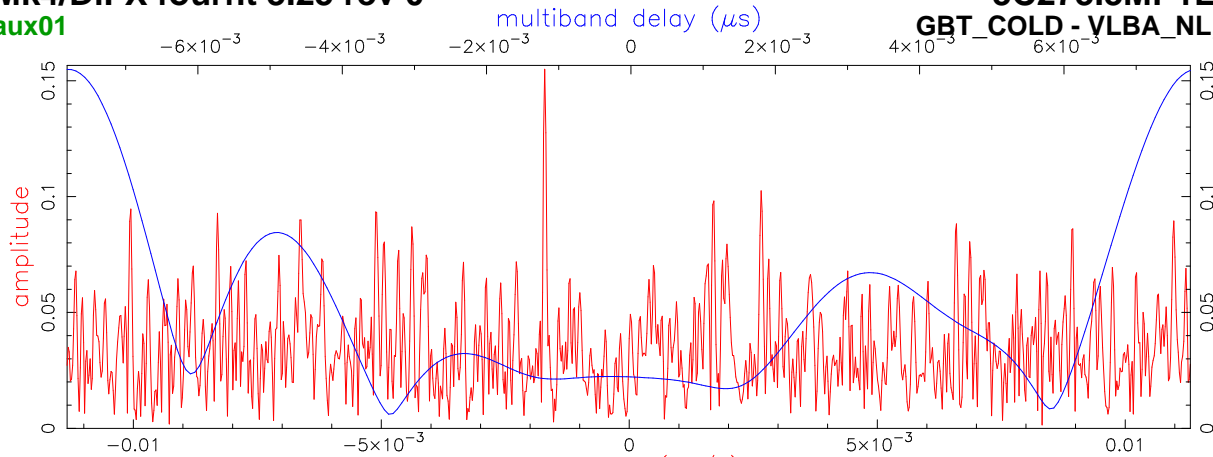
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gn..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gn.W.149.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

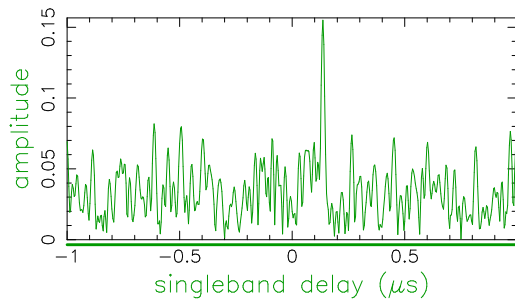
3C273.3MP1LL, No0627, Gn

GBT_COLD - VLBA_NL, fgroup W, pol RR

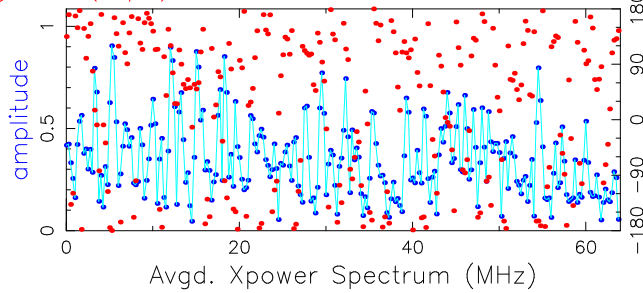


Fringe quality 0

SNR 5.7
 Int time 177.938
 Amp 0.157
 Phase -3.3
 PFD 8.4e-01
 Delays (us)
 SBD 0.136221
 MBD -0.007804
 Fringe rate (Hz)
 -0.147027
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

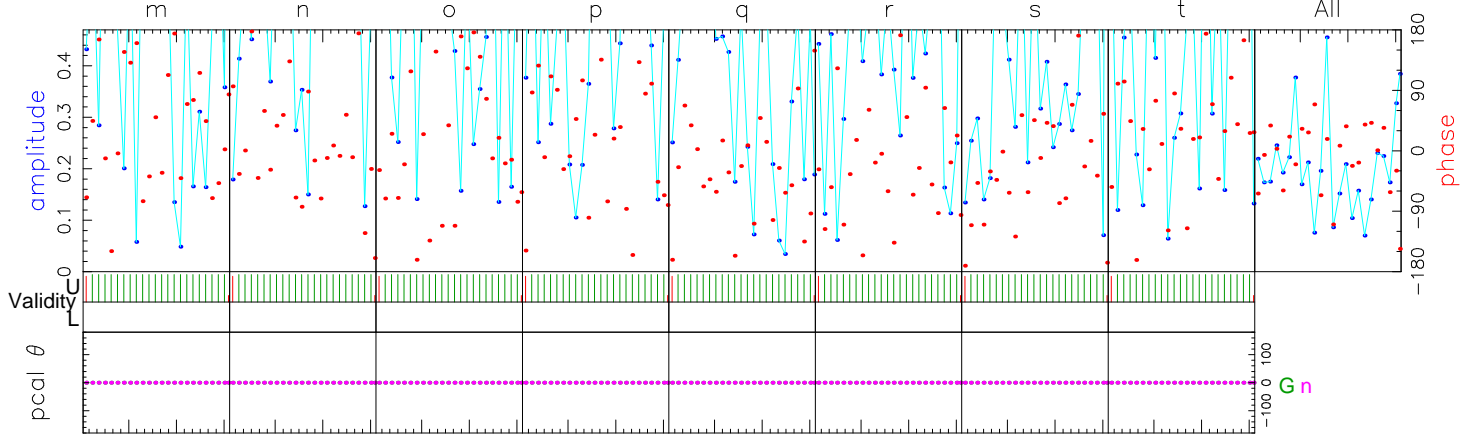


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000002.54
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171557
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 24 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
	9.8	-3.5	-21.9	56.9	-14.7	-31.5	-16.5	38.9	Phase	-3.3
	0.1	0.3	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.2
	371.3	291.2	23.8	372.9	17.2	276.0	416.7	276.8	Sbd box	291.9
U/L	349/0	349/0	349/0	349/0	349/0	349/0	349/0	349/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	3.29816898531E+03	Apriori delay (usec)	3.29803616440E+03	Resid mbdelay (usec)	-7.80409E-03	+/-	1.9E-04
Sband delay (usec)	3.29817238656E+03	Apriori clock (usec)	-1.4334543E+01	Resid sbdelay (usec)	1.36221E-01	+/-	1.5E-03
Phase delay (usec)	3.29803616430E+03	Apriori clockrate (us/s)	-2.2687689E-07	Resid phdelay (usec)	-1.05882E-07	+/-	6.5E-07
Delay rate (us/s)	-5.29393797192E-02	Apriori rate (us/s)	-5.29376728790E-02	Resid rate (us/s)	-1.70684E-06	+/-	6.3E-09
Total phase (deg)	69.3	Apriori accel (us/s/s)	-1.77799255900E-05	Resid phase (deg)	-3.3	+/-	20.2

ph/seg (deg)	45.8	Theor.	49.6	Amplitude	0.157 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.6		86.6	Search (1024X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	34.2		28.6	Inc. seg. avg.	0.148	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	40.2		50.0	Inc. frq. avg.	0.153	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00
G: az 109.0 el 25.2 pa -47.8		n: az 101.8 el 15.7 pa -46.9		u,v (fr/asec)	294.013 -441.133	Data rate(Mb/s): 2048	t_cohere infinite			

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gn..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gn.W.157.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

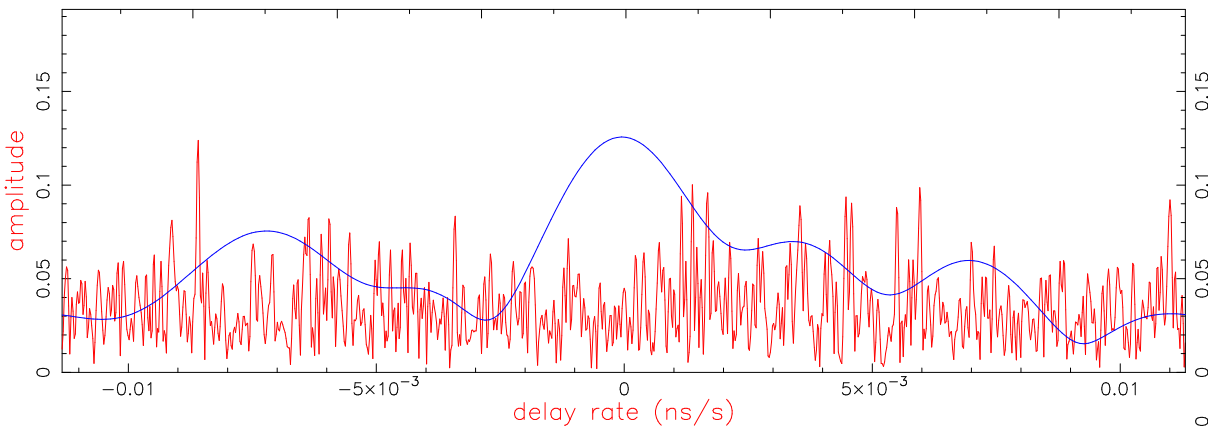
aux01

3C273.3MP1LL, No0627, Gn

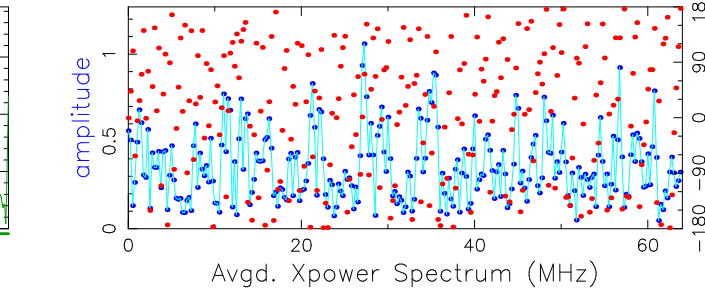
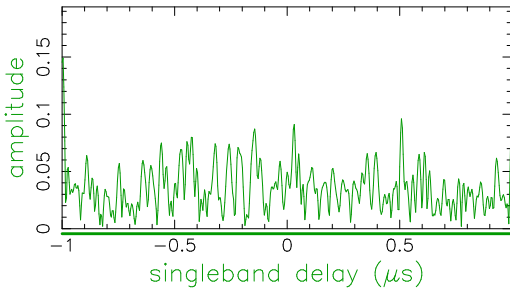
GBT_COLD - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 0

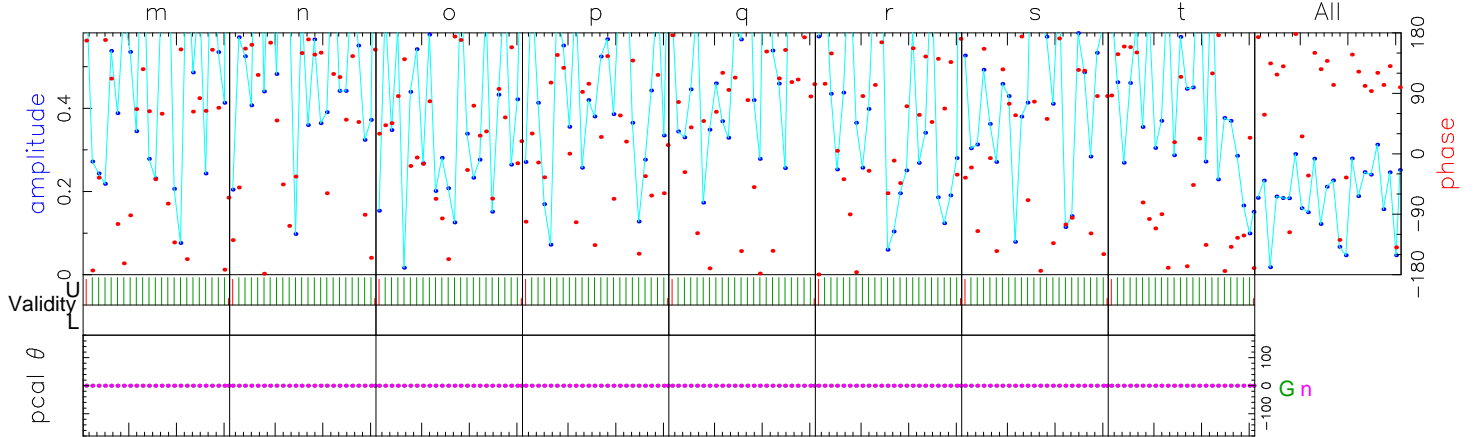


SNR 5.5
 Int time 177.938
 Amp 0.194
 Phase 126.1
 PFD 9.9e-01
 Delays (us)
 SBD -0.997557
 MBD -0.000247
 Fringe rate (Hz)
 -0.741703
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000002.54
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171602
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 24 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
U/L	148.7	149.4	40.7	46.7	126.2	122.7	138.2	179.8	Phase	126.1
G	0.2	0.3	0.2	0.1	0.4	0.2	0.2	0.2	Ampl.	0.2
n	97.1	228.3	150.2	276.1	2.7	151.9	427.3	373.9	Sbd box	1.6
G	349/0	349/0	349/0	349/0	349/0	349/0	349/0	349/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 3.29703591773E+03 Apriori delay (usec) 3.29803616440E+03 Resid mbdelay (usec) -2.46677E-04 +/- 2.0E-04
 Sband delay (usec) 3.29703860765E+03 Apriori clock (usec) -1.4334543E+01 Resid sbdelay (usec) -9.97557E-01 +/- 1.6E-03
 Phase delay (usec) 3.29803616847E+03 Apriori clockrate (us/s) -2.2687689E-07 Resid phdelay (usec) 4.06733E-06 +/- 6.7E-07
 Delay rate (us/s) -5.29462833194E-02 Apriori rate (us/s) -5.29376728790E-02 Resid rate (us/s) -8.61044E-06 +/- 6.5E-09
 Total phase (deg) 198.7 Apriori accel (us/s/s) -1.77799255900E-05 Resid phase (deg) 126.1 +/- 20.8

RMS Theor. Amplitude 0.194 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.6 51.0 Search (1024X32) 0.147 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 57.6 88.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 54.3 29.4 Inc. seg. avg. 0.171 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 41.7 51.3 Inc. frq. avg. 0.187 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

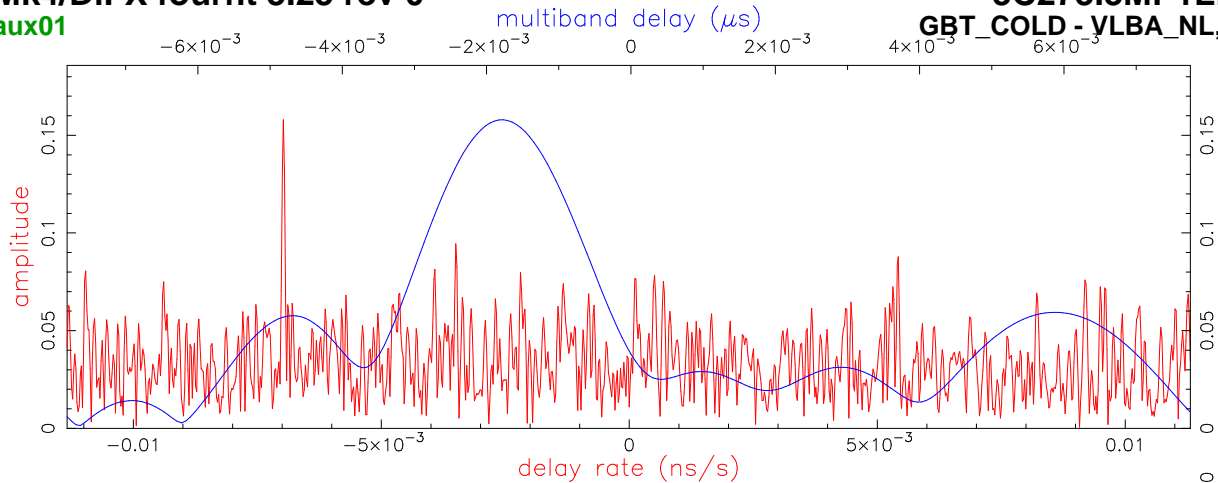
G: az 109.0 el 25.2 pa -47.8 n: az 101.8 el 15.7 pa -46.9 u,v (fr/asec) 294.013 -441.133 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gn..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gn.W.166.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

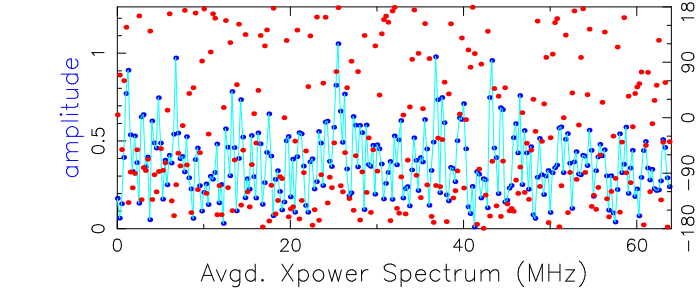
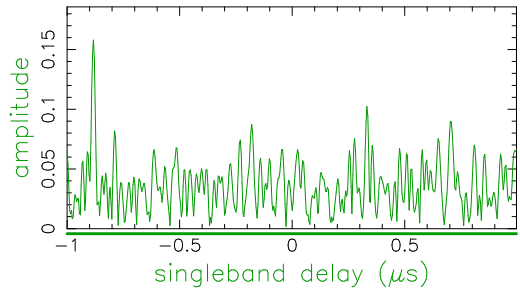
3C273.3MP1LL, No0627, Gn

GBT_COLD - VLBA_NL, fgroup W, pol RL



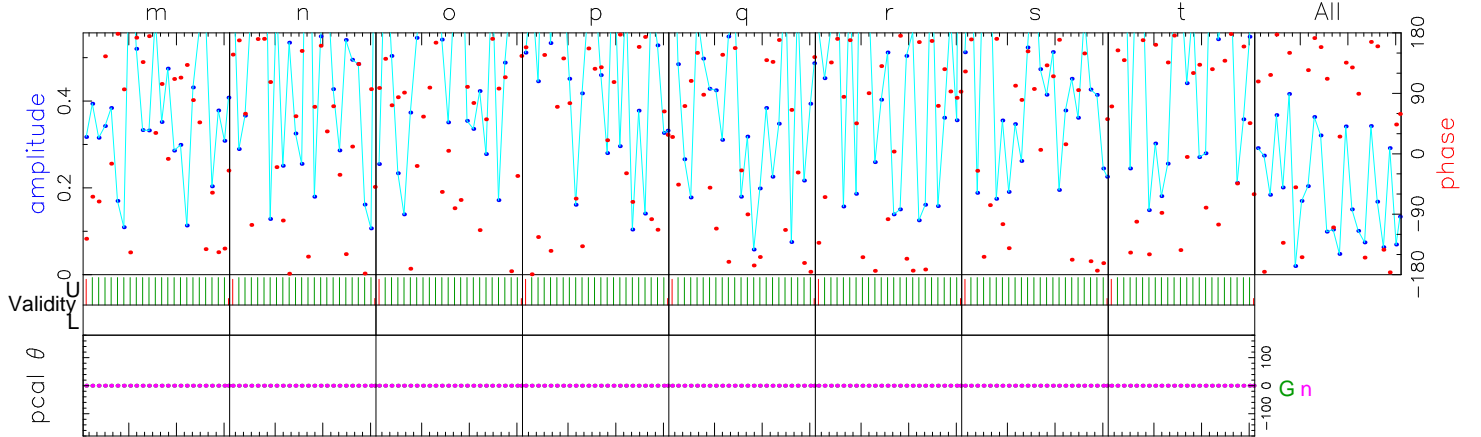
Fringe quality 0

SNR 5.8
 Int time 177.938
 Amp 0.186
 Phase 158.9
 PFD 6.4e-01
 Delays (us)
 SBD -0.883219
 MBD -0.001799
 Fringe rate (Hz)
 -0.602112
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000002.54
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171604
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 24 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
	169.7	164.3	116.9	154.6	-173.2	163.3	157.5	157.4	Phase	158.9
	0.1	0.2	0.1	0.2	0.1	0.3	0.2	0.3	Ampl.	0.2
	18.5	323.1	440.0	317.8	100.2	29.7	391.9	439.7	Sbd box	30.9
U/L	349/0	349/0	349/0	349/0	349/0	349/0	349/0	349/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	3.29715936543E+03	Apriori delay (usec)	3.29803616440E+03	Resid mbdelay (usec)	-1.79897E-03	+/-	1.9E-04
Sband delay (usec)	3.29715294565E+03	Apriori clock (usec)	-1.4334543E+01	Resid sbdelay (usec)	-8.83219E-01	+/-	1.5E-03
Phase delay (usec)	3.29803616953E+03	Apriori clockrate (us/s)	-2.2687689E-07	Resid phdelay (usec)	5.12329E-06	+/-	6.4E-07
Delay rate (us/s)	-5.29446628042E-02	Apriori rate (us/s)	-5.29376728790E-02	Resid rate (us/s)	-6.98993E-06	+/-	6.2E-09
Total phase (deg)	231.5	Apriori accel (us/s/s)	-1.77799255900E-05	Resid phase (deg)	158.9	+/-	19.9

ph/seg (deg)	63.4	Theor.	48.7	Amplitude	0.186 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.4		85.0	Search (1024X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	21.3		28.1	Inc. seg. avg.	0.174	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.7		49.1	Inc. frq. avg.	0.170	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00
G: az 109.0 el 25.2 pa -47.8		n: az 101.8 el 15.7 pa -46.9		u,v (fr/asec)	294.013 -441.133	Data rate(Mb/s): 2048				

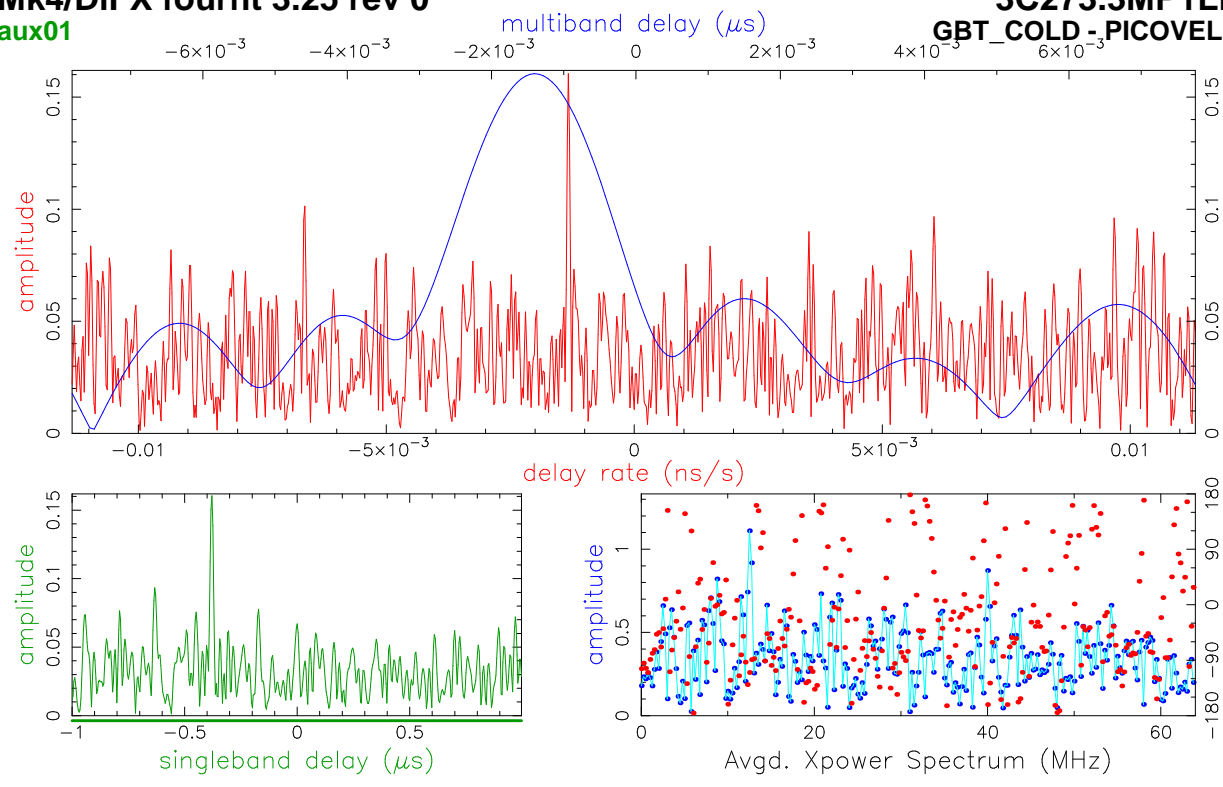
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//Gn..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//Gn.W.173.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

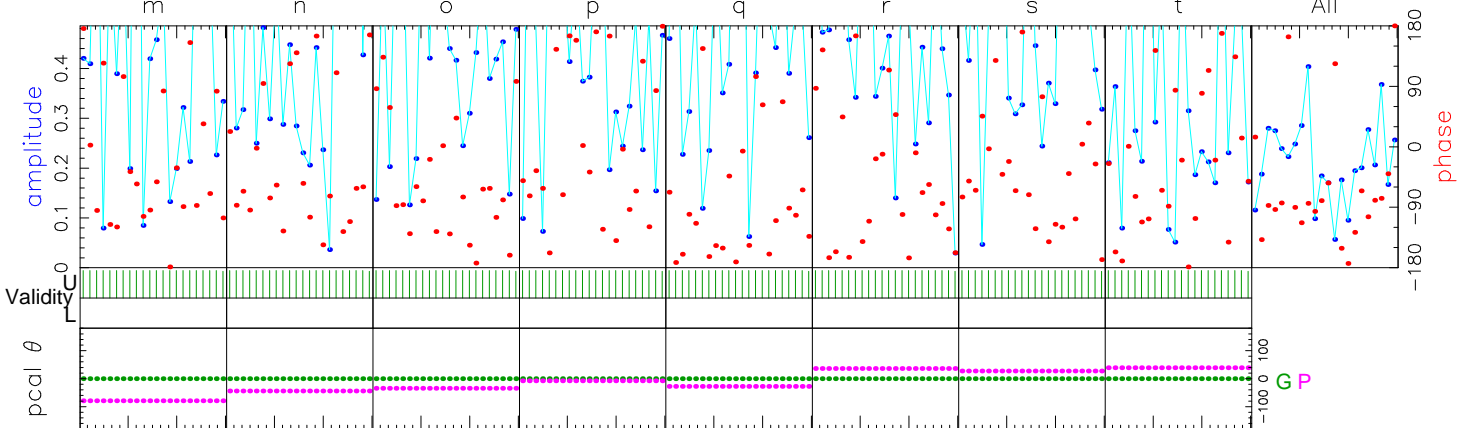
3C273.3MP1LL, No0627, GP

GBT_COLD - PICOVEL, fgroup W, pol LL



Fringe quality 0
 SNR 5.9
 Int time 179.983
 Amp 0.162
 Phase -99.0
 PFD 3.6e-01
 Delays (us)
 SBD -0.379636
 MBD -0.001394
 Fringe rate (Hz)
 -0.114746
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171536
 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
	-75.8	-106.5	-89.2	-125.6	-127.8	-133.3	-64.7	-95.4	Phase	-99.0
	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	148.1	478.3	122.8	344.5	486.0	479.4	159.9	407.0	Sbd box	159.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -7.44693413105E+03 Apriori delay (usec) -7.44655773725E+03 Resid mbdelay (usec) -1.39379E-03 +/- 1.8E-04
 Sband delay (usec) -7.44693737275E+03 Apriori clock (usec) -1.3733791E+01 Resid sbdelay (usec) -3.79636E-01 +/- 1.5E-03
 Phase delay (usec) -7.44655774045E+03 Apriori clockrate (us/s) -5.2785402E-07 Resid phdelay (usec) -3.19308E-06 +/- 6.3E-07
 Delay rate (us/s) 1.41916275444E+00 Apriori rate (us/s) 1.41916408653E+00 Resid rate (us/s) -1.33209E-06 +/- 6.0E-09
 Total phase (deg) -274.4 Apriori accel (us/s/s) 3.95941774192E-05 Resid phase (deg) -99.0 +/- 19.4

ph/seg (deg) 55.2 45.5 Amplitude 0.162 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.0 79.4 Search (1024X32) 0.156 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.7 27.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.2 47.9 Inc. seg. avg. 0.164 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 109.0 el 25.2 pa -47.8 P: az 208.9 el 51.3 pa 23.0 u,v (fr/asec) -8111.654 273.405 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GP_.3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GP.W.56.3MP1LL

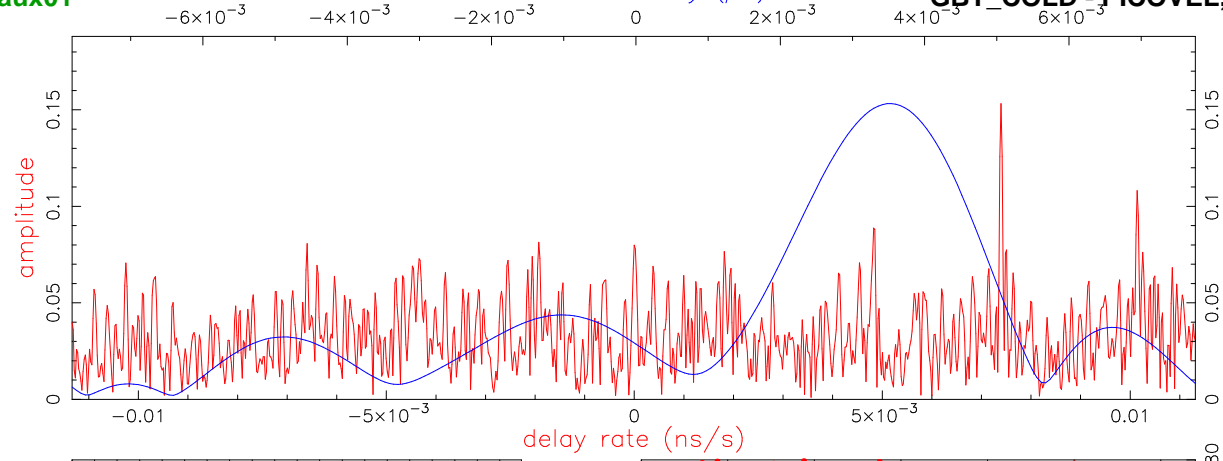
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GP

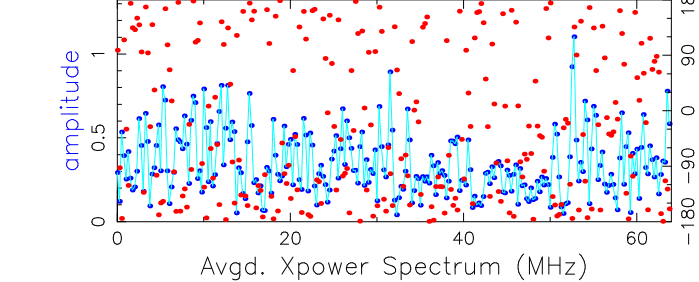
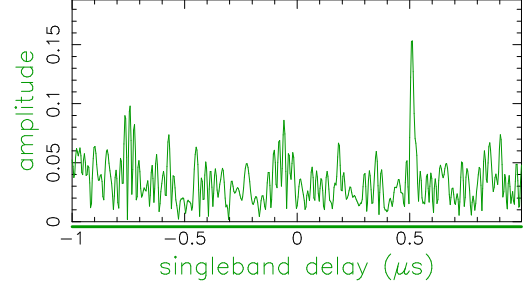
GBT_COLD - PICOVEL, fgroup W, pol LR

multiband delay (μ s)



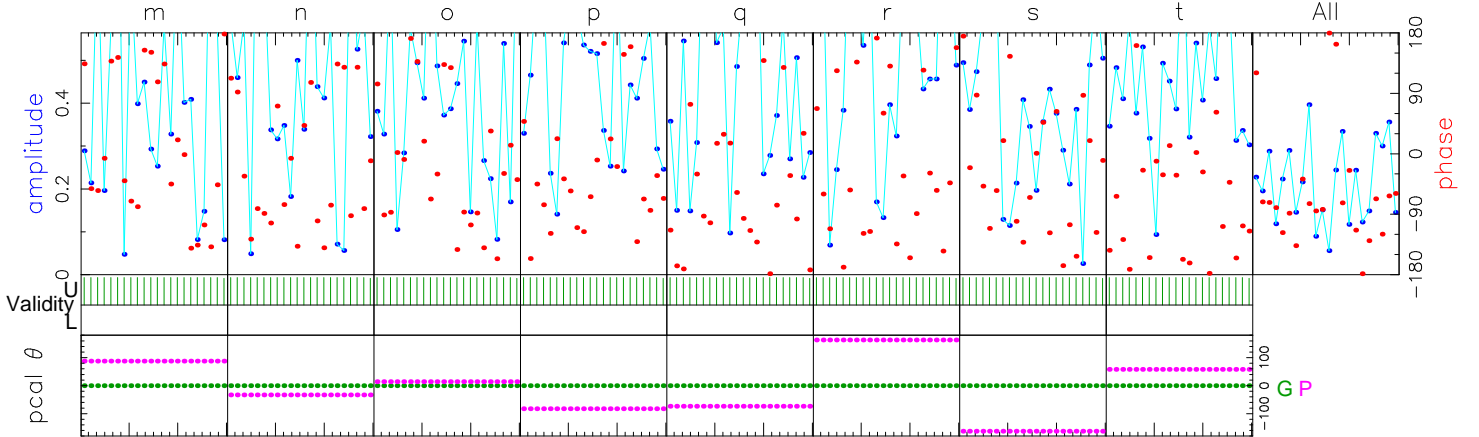
Fringe quality 0

SNR 5.8
 Int time 179.983
 Amp 0.188
 Phase -90.4
 PFD 6.6e-01
 Delays (us)
 SBD 0.509798
 MBD 0.003560
 Fringe rate (Hz)
 0.637069
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171539
 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
	-128.5	-90.0	-73.6	-69.7	-102.2	-109.9	-75.6	-98.8	Phase	-90.4
	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
	450.0	344.9	242.1	389.3	264.6	439.4	201.2	159.8	Sbd box	387.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:88	0:33	0:15	0:-82	0:-74	0:163	0:-163	0:58	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-7.44605417680E+03	Apriori delay (usec)	-7.44655773725E+03	Resid mbdelay (usec)	3.56046E-03	+/-	1.9E-04
Sband delay (usec)	-7.44604793975E+03	Apriori clock (usec)	-1.3733791E+01	Resid sbdelay (usec)	5.09798E-01	+/-	1.5E-03
Phase delay (usec)	-7.44655774017E+03	Apriori clockrate (us/s)	-5.2785402E-07	Resid phdelay (usec)	-2.91480E-06	+/-	6.4E-07
Delay rate (us/s)	1.41917148227E+00	Apriori rate (us/s)	1.41916408653E+00	Resid rate (us/s)	7.39574E-06	+/-	6.2E-09
Total phase (deg)		Apriori accel (us/s/s)	3.95941774192E-05	Resid phase (deg)	-90.4	+/-	19.9

ph/seg (deg)	54.8	Theor.	46.7	Amplitude	0.188 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	69.8		81.5	Search (1024X32)	0.153	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	22.3		28.2	Inc. seg. avg.	0.194	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011				
amp/frq (%)	33.7		49.2	Inc. frq. avg.	0.172	Data rate(Mb/s):	2048	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00

G: az 109.0 el 25.2 pa -47.8 P: az 208.9 el 51.3 pa 23.0 u,v (fr/asec) -8111.654 273.405 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GP..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GP.W.75.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

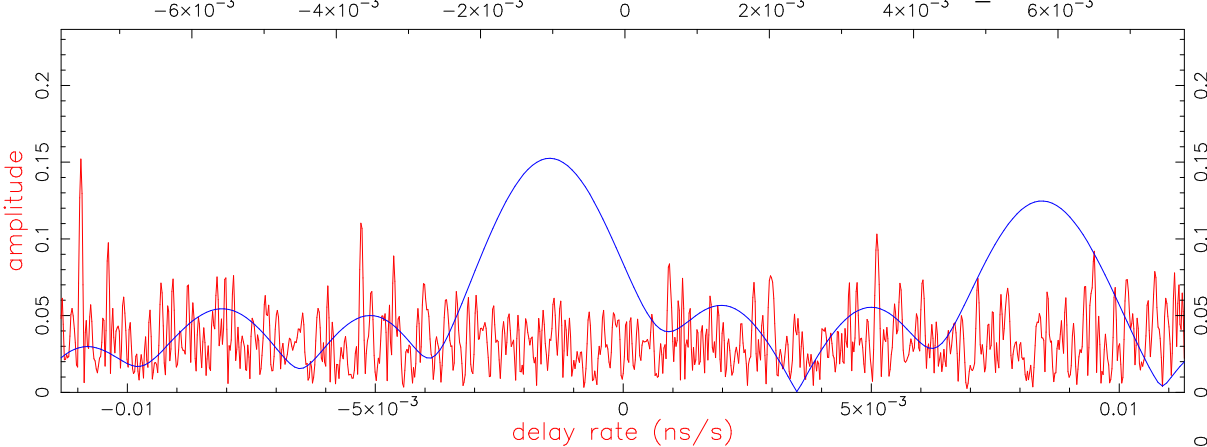
aux01

3C273.3MP1LL, No0627, GP

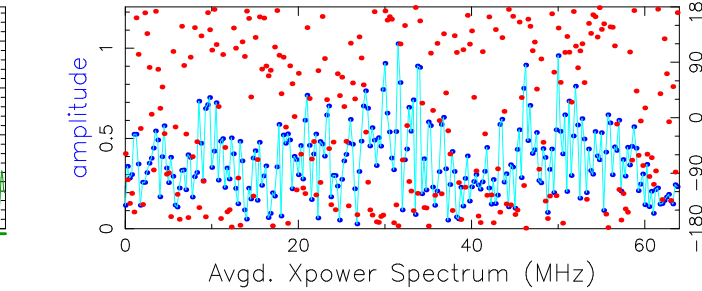
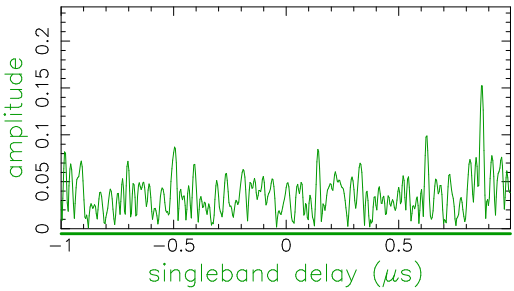
GBT_COLD - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

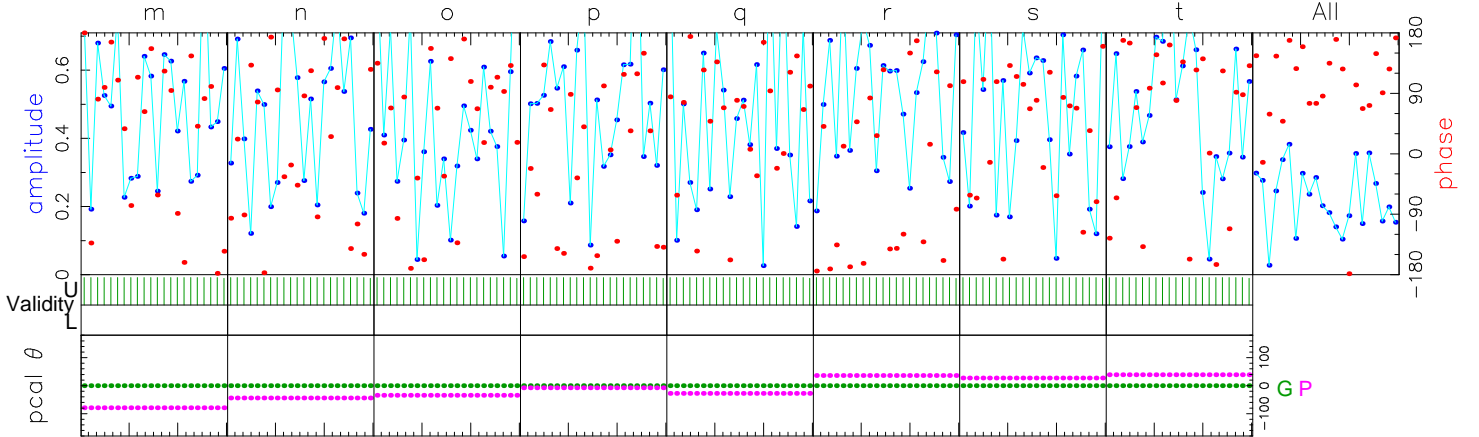


SNR 5.7
 Int time 179.983
 Amp 0.237
 Phase 115.0
 PFD 7.6e-01
 Delays (us)
 SBD 0.869102
 MBD -0.001117
 Fringe rate (Hz)
 -0.944081
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171541
 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		
G	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39		
G	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-7.44568385424E+03	Apriori delay (usec)	-7.44655773725E+03	Resid mbdelay (usec)	-1.11698E-03	+/-	1.9E-04
Sband delay (usec)	-7.44568863475E+03	Apriori clock (usec)	-1.3733791E+01	Resid sbdelay (usec)	8.69102E-01	+/-	1.5E-03
Phase delay (usec)	-7.44655773355E+03	Apriori clockrate (us/s)	-5.2785402E-07	Resid phdelay (usec)	3.70868E-06	+/-	6.5E-07
Delay rate (us/s)	1.41915312669E+00	Apriori rate (us/s)	1.41916408653E+00	Resid rate (us/s)	-1.09598E-05	+/-	6.2E-09
Total phase (deg)	-60.4	Apriori accel (us/s/s)	3.95941774192E-05	Resid phase (deg)	115.0	+/-	20.1

ph/seg (deg)	48.7	Theor.	47.1	Amplitude	0.237 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.0	Search (1024X32)	0.151	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	33.1	Inc. seg. avg.	0.255	Inc. frq. avg.	0.236	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	59.1	Inc. frq. avg.	0.236			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

G: az 109.0 el 25.2 pa -47.8 P: az 208.9 el 51.3 pa 23.0 u,v (fr/asec) -8111.654 273.405 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GP..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GP.W.86.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

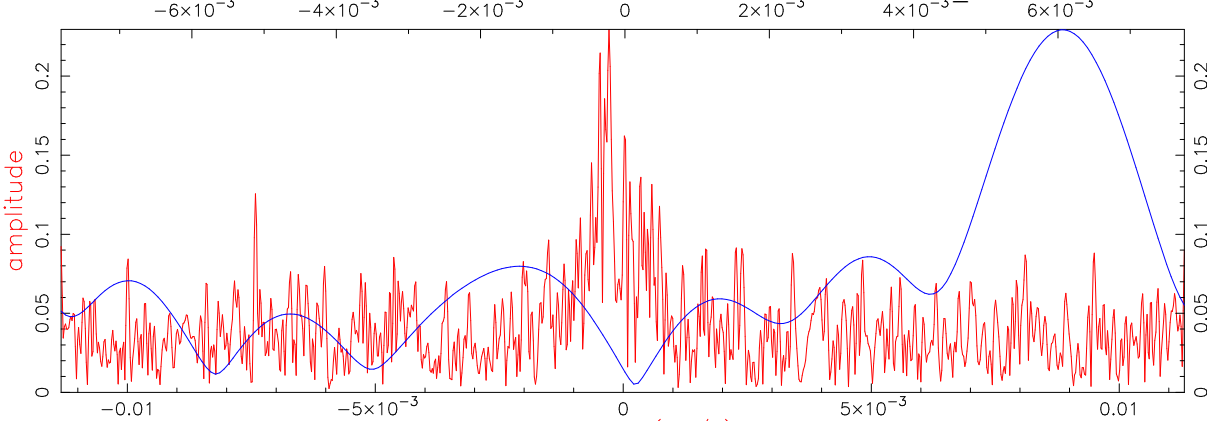
aux01

3C273.3MP1LL, No0627, GX

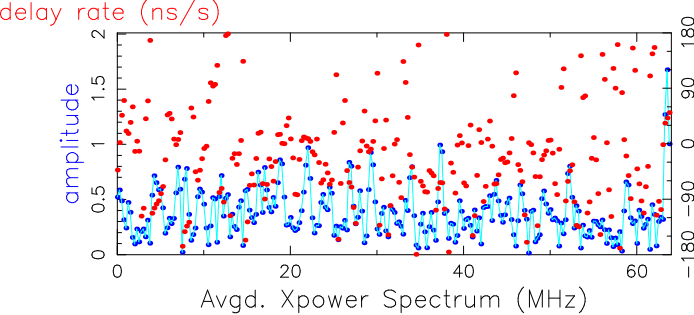
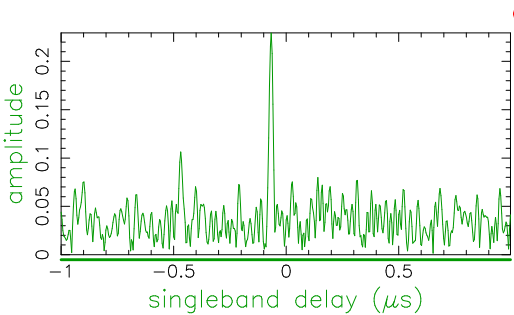
GBT_COLD - ONSALA60, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 9

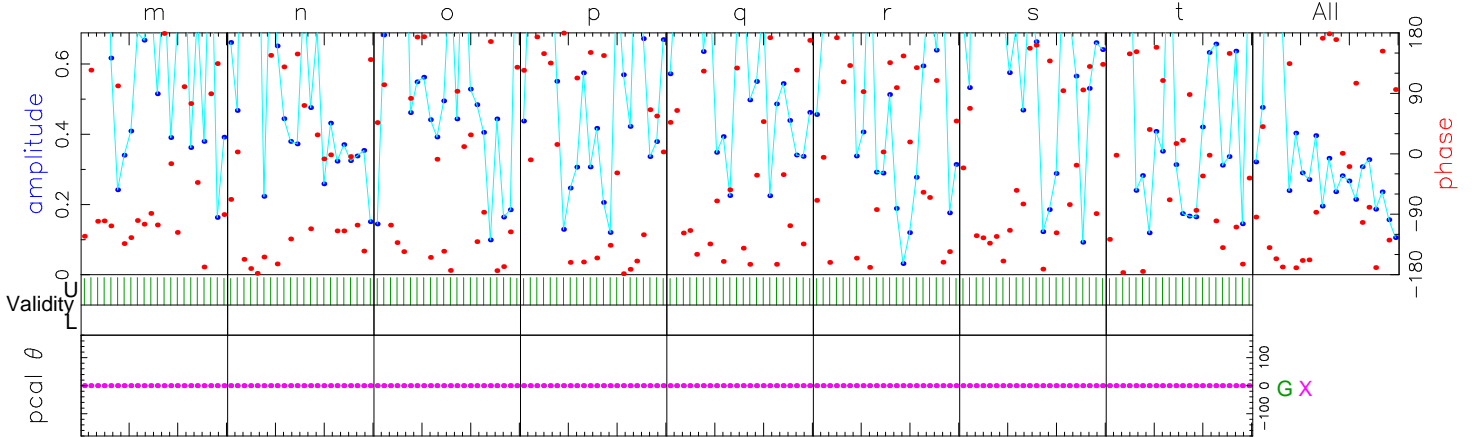


SNR 8.4
 Int time 179.718
 Amp 0.230
 Phase -150.9
 PFD 7.1e-09
 Delays (us)
 SBD -0.066801
 MBD 0.006061
 Fringe rate (Hz)
 -0.024740
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171535
 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
	-119.3	-163.5	-162.0	164.5	-143.4	174.6	-130.2	-123.0	Phase	-150.9
	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.2	Ampl.	0.2
	239.9	238.4	498.0	148.4	240.2	78.3	238.7	199.4	Sbd box	239.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -1.16446679552E+03 Apriori delay (usec) -1.16439473135E+03 Resid mbdelay (usec) 6.06082E-03 +/- 1.3E-04
 Sband delay (usec) -1.16446153235E+03 Apriori clock (usec) -1.2738022E+02 Resid sbdelay (usec) -6.68010E-02 +/- 1.0E-03
 Phase delay (usec) -1.16439473621E+03 Apriori clockrate (us/s) -1.1462400E-06 Resid phdelay (usec) -4.86752E-06 +/- 4.4E-07
 Delay rate (us/s) 1.49649371113E+00 Apriori rate (us/s) 1.49649399833E+00 Resid rate (us/s) -2.87202E-07 +/- 4.2E-09
 Total phase (deg) -207.9 Apriori accel (us/s/s) 4.68006453489E-06 Resid phase (deg) -150.9 +/- 13.6

ph/seg (deg) RMS 74.4 Theor. 31.9 Amplitude 0.230 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 157.3 55.7 Search (1024X32) 0.224 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.9 19.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.8 33.6 Inc. seg. avg. 0.339 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.242 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 109.0 el 25.2 pa -47.8 X: az 218.2 el 28.7 pa 19.6 u,v (fr/asec) -8573.416 -1941.276 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GX...3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GX.W.53.3MP1LL

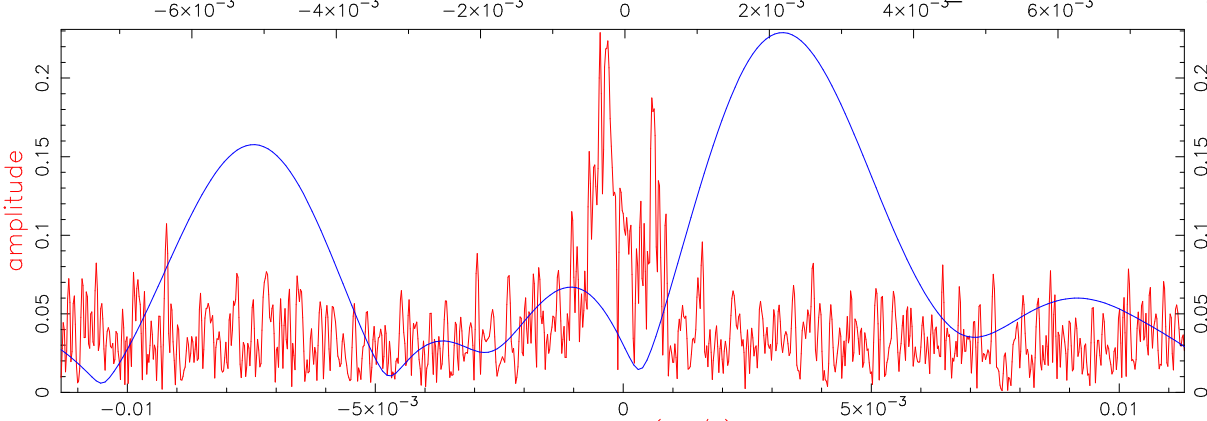
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GX

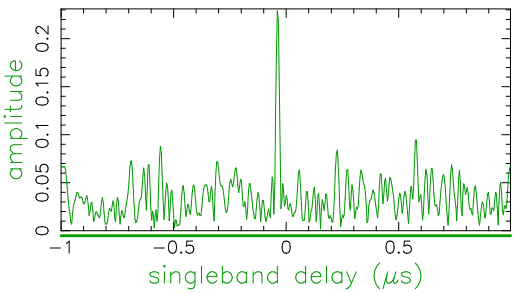
GBT_COLD - ONSALA60, fgroup W, pol RR

multiband delay (μ s)

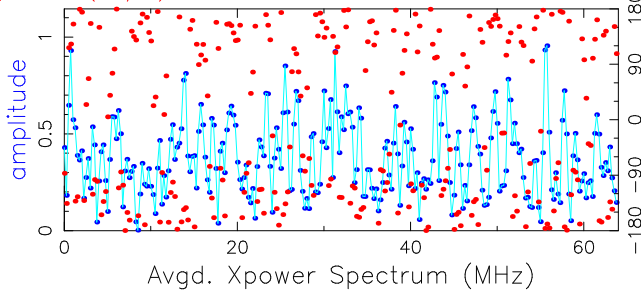


Fringe quality 9

SNR 8.5
 Int time 179.718
 Amp 0.231
 Phase 82.2
 PFD 4.7e-09
 Delays (us)
 SBD -0.037913
 MBD 0.002221
 Fringe rate (Hz)
 -0.039777
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

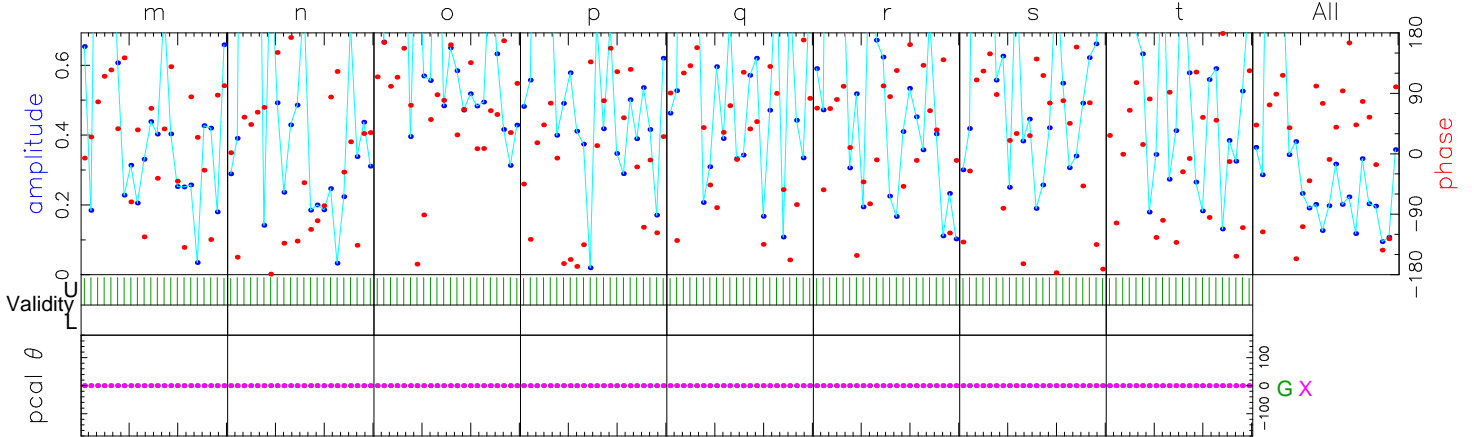


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171537
 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
	78.6	52.1	104.0	40.5	114.8	62.3	121.1	11.6	Phase	82.2
	0.2	0.2	0.5	0.2	0.3	0.3	0.3	0.2	Ampl.	0.3
	66.6	246.1	246.9	326.0	247.7	144.3	414.4	193.7	Sbd box	247.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.16443938542E+03	Apriori delay (usec)	-1.16439473135E+03	Resid mbdelay (usec)	2.22093E-03	+/-	1.3E-04
Sband delay (usec)	-1.16443264410E+03	Apriori clock (usec)	-1.2738022E+02	Resid sbdelay (usec)	-3.79127E-02	+/-	1.0E-03
Phase delay (usec)	-1.16439472869E+03	Apriori clockrate (us/s)	-1.1462400E-02	Resid phdelay (usec)	2.65095E-06	+/-	4.4E-07
Delay rate (us/s)	1.49649353656E+00	Apriori rate (us/s)	1.49649399833E+00	Resid rate (us/s)	-4.61771E-07	+/-	4.2E-09
Total phase (deg)	25.3	Apriori accel (us/s/s)	4.68006453489E-06	Resid phase (deg)	82.2	+/-	13.5

ph/seg (deg)	85.4	Theor.	31.8	Amplitude	0.231 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	184.8		55.4	Search (1024X32)	0.224	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	43.0		19.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	42.5		33.4	Inc. seg. avg.	0.333	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.261	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

G: az 109.0 el 25.2 pa -47.8 X: az 218.2 el 28.7 pa 19.6 u,v (fr/asec) -8573.416 -1941.276 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GX..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GX.W.63.3MP1LL

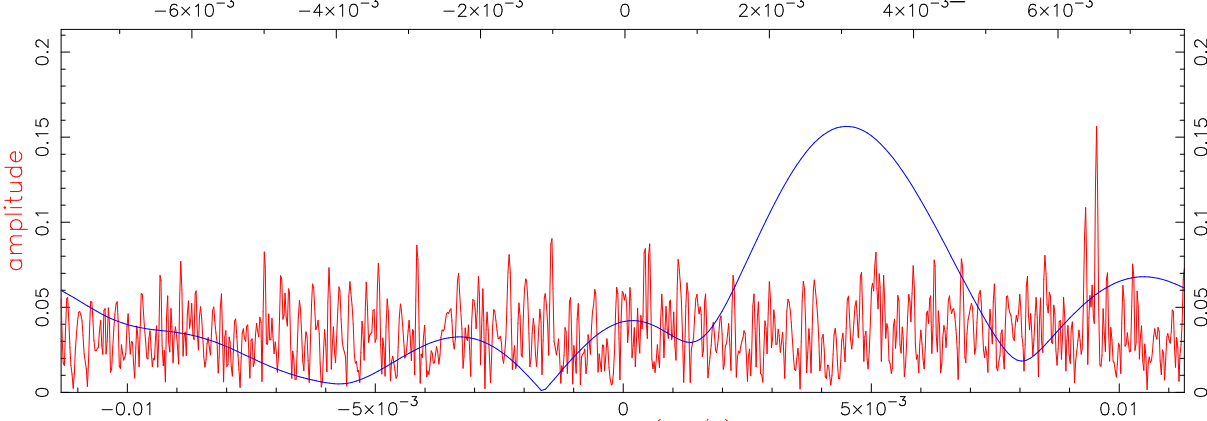
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GX

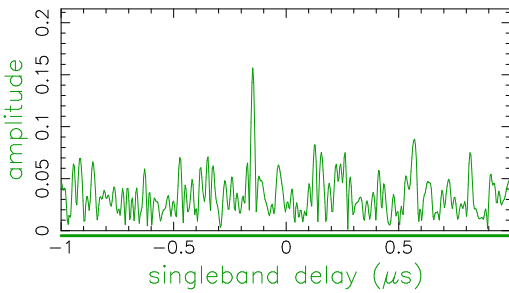
GBT_COLD - ONSALA60, fgroup W, pol LR

multiband delay (μ s)

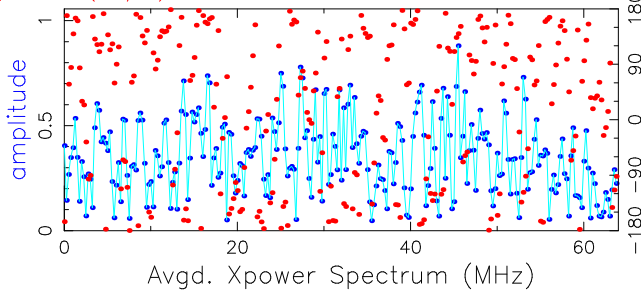


Fringe quality 0

SNR 5.7
Int time 179.718
Amp 0.213
Phase -150.8
PFD 7.1e-01
Delays (us)
SBD -0.148455
MBD 0.003069
Fringe rate (Hz) 0.822366
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

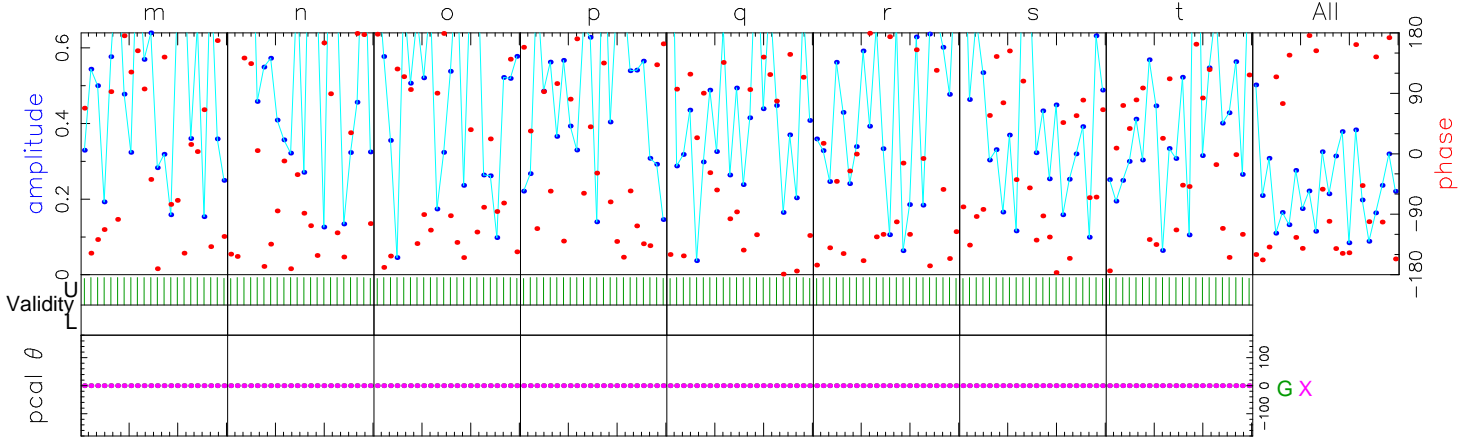


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 000001.00
Stop 000301.22
FRT 000131.00
Corr/FF/build
2024:359:214742
2025:041:171539
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
	-152.0	-154.9	-144.7	-135.4	170.0	-132.3	-99.0	150.5	Phase	-150.8
	0.2	0.4	0.3	0.2	0.3	0.3	0.1	0.1	Ampl.	0.2
	492.4	418.8	485.0	404.1	290.6	88.1	37.5	311.8	Sbd box	219.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.16454791251E+03	Apriori delay (usec)	-1.16439473135E+03	Resid mbdelay (usec)	3.06884E-03	+/-	1.9E-04
Sband delay (usec)	-1.16454318635E+03	Apriori clock (usec)	-1.2738022E+02	Resid sbdelay (usec)	-1.48455E-01	+/-	1.5E-03
Phase delay (usec)	-1.16439473621E+03	Apriori clockrate (us/s)	-1.1462400E-06	Resid phdelay (usec)	-4.86248E-06	+/-	6.4E-07
Delay rate (us/s)	1.49650354519E+00	Apriori rate (us/s)	1.49649399833E+00	Resid rate (us/s)	9.54685E-06	+/-	6.2E-09
Total phase (deg)	-207.7	Apriori accel (us/s/s)	4.68006453489E-06	Resid phase (deg)	-150.8	+/-	20.0

ph/seg (deg)	57.3	Theor.	46.9	Amplitude	0.213 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	83.2		81.8	Search (1024X32)	0.152	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	37.2		28.3	Inc. seg. avg.	0.239	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	42.7		49.3	Inc. frq. avg.	0.211	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

G: az 109.0 el 25.2 pa -47.8 X: az 218.2 el 28.7 pa 19.6 u,v (fr/asec) -8573.416 -1941.276 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GX...3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GX.W.73.3MP1LL

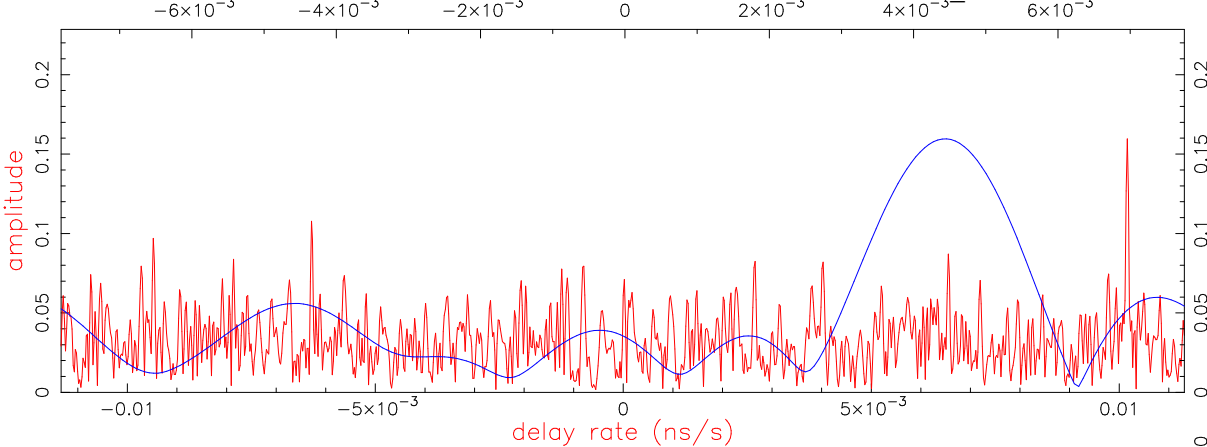
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GX

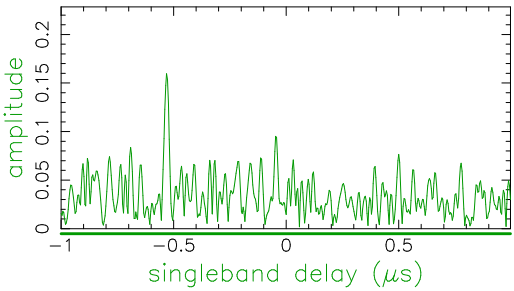
GBT_COLD - ONSALA60, fgroup W, pol RL

multiband delay (μ s)

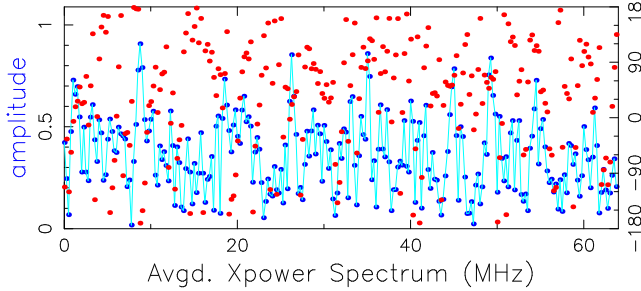


Fringe quality 0

SNR 5.9
 Int time 179.718
 Amp 0.228
 Phase 35.7
 PFD 4.4e-01
 Delays (us)
 SBD -0.530515
 MBD 0.004456
 Fringe rate (Hz) 0.876991
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

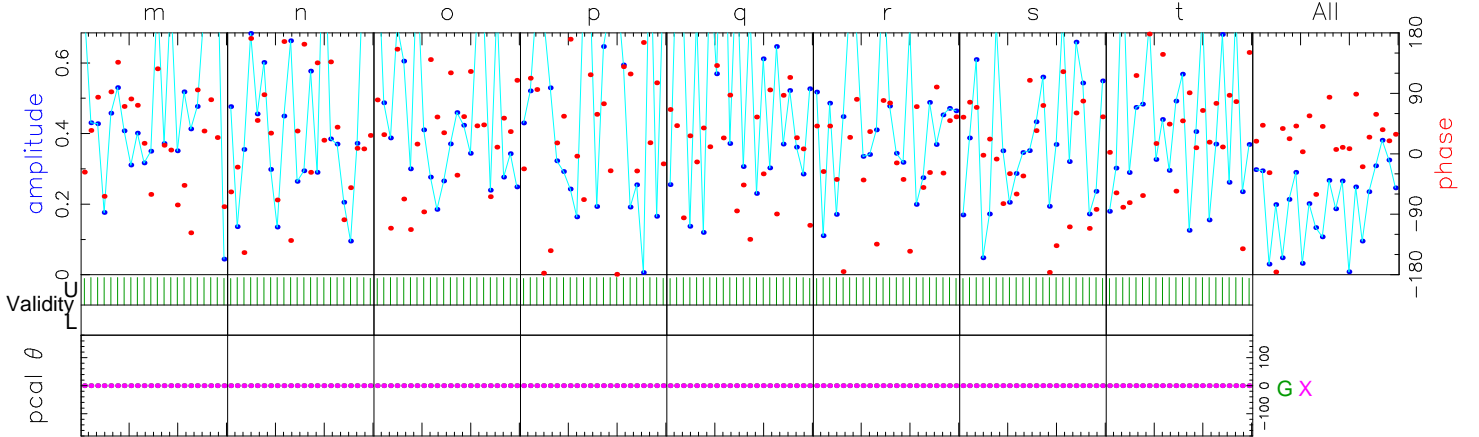


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171541
 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		
G	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec) (SBD)	-1.16492152582E+03	Apriori delay (usec)	-1.16439473135E+03	Resid mbdelay (usec)	4.45553E-03	+/-	1.9E-04
Sband delay (usec)	-1.16492524610E+03	Apriori clock (usec)	-1.2738022E+02	Resid sbdelay (usec)	-5.30515E-01	+/-	1.5E-03
Phase delay (usec)	-1.16439473019E+03	Apriori clockrate (us/s)	-1.1462400E-02	Resid phdelay (usec)	1.15241E-06	+/-	6.3E-07
Delay rate (us/s)	1.49650417933E+00	Apriori rate (us/s)	1.49649399833E+00	Resid rate (us/s)	1.01810E-05	+/-	6.1E-09
Total phase (deg)	-21.2	Apriori accel (us/s/s)	4.68006453489E-06	Resid phase (deg)	35.7	+/-	19.5

ph/seg (deg)	47.2	Theor.	45.8	Amplitude	0.228 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.5		80.0	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	21.5		27.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	27.5		48.2	Inc. seg. avg.	0.217	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.214	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
G: az 109.0 el 25.2 pa -47.8		X: az 218.2 el 28.7 pa 19.6		u,v (fr/asec)	-8573.416 -1941.276		ion window (TEC) 0.00 0.00

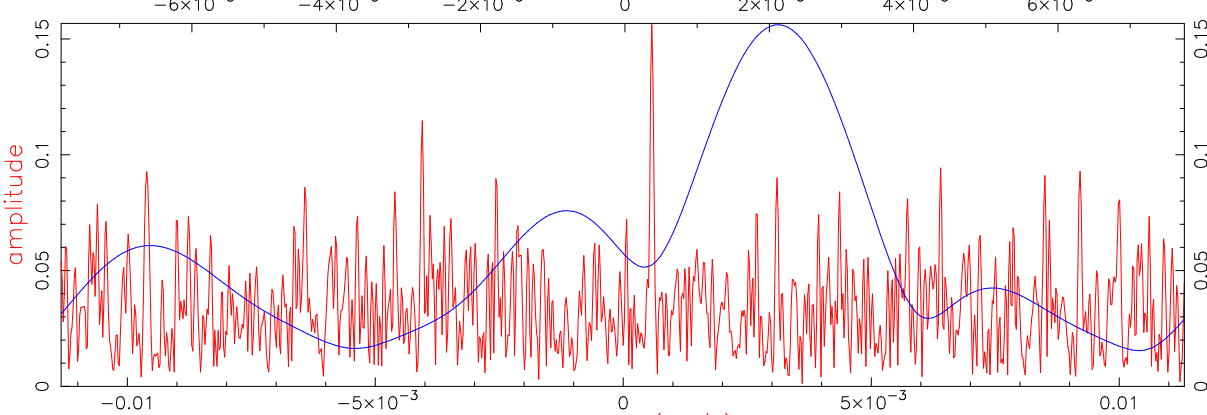
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GX...3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GX.W.84.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

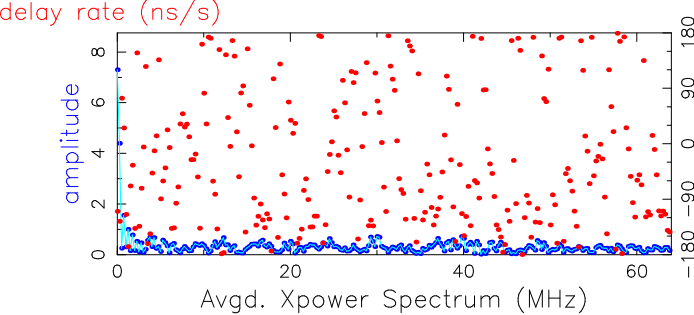
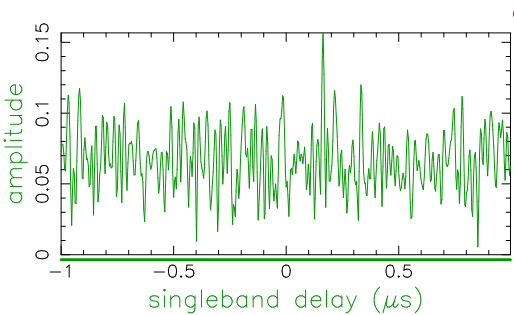
aux01

3C273.3MP1LL, No0627, GY

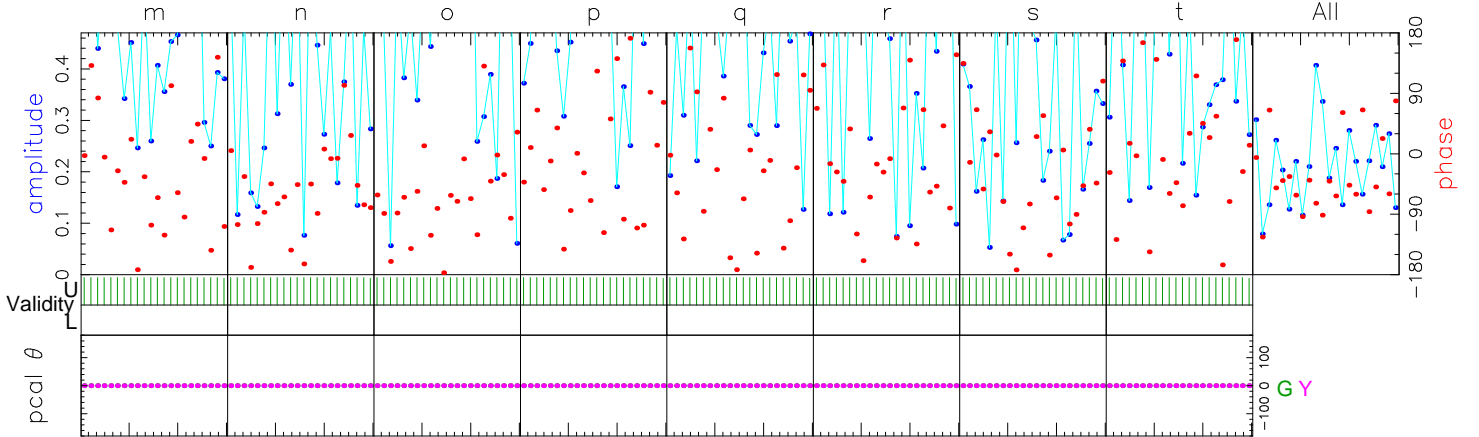
GBT_COLD - YEBES40M, fgroup W, pol LL



Fringe quality 0
 SNR 5.7
 Int time 179.776
 Amp 0.157
 Phase -46.6
 PFD 6.9e-01
 Delays (us)
 SBD 0.163528
 MBD 0.002092
 Fringe rate (Hz) 0.050357
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build 2024:359:214742
 2025:041:171536
 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
	-22.6	-45.8	-73.4	-16.5	-85.7	-17.8	-70.3	-27.2	Phase	-46.6
	0.1	0.3	0.3	0.1	0.1	0.2	0.1	0.1	Ampl.	0.2
	183.3	279.2	298.3	253.7	207.9	20.6	90.3	414.8	Sbd box	298.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-6.57524044381E+03	Apriori delay (usec)	-6.57539878604E+03	Resid mbdelay (usec)	2.09223E-03	+/-	1.9E-04
Sband delay (usec)	-6.57523525854E+03	Apriori clock (usec)	9.6085068E+01	Resid sbdelay (usec)	1.63528E-01	+/-	1.5E-03
Phase delay (usec)	-6.57539878754E+03	Apriori clockrate (us/s)	-1.6987030E-06	Resid phdelay (usec)	-1.50181E-06	+/-	6.4E-07
Delay rate (us/s)	1.40699515772E+00	Apriori rate (us/s)	1.40699457312E+00	Resid rate (us/s)	5.84600E-07	+/-	6.2E-09
Total phase (deg)	-201.2	Apriori accel (us/s/s)	3.53689042340E-05	Resid phase (deg)	-46.6	+/-	20.0

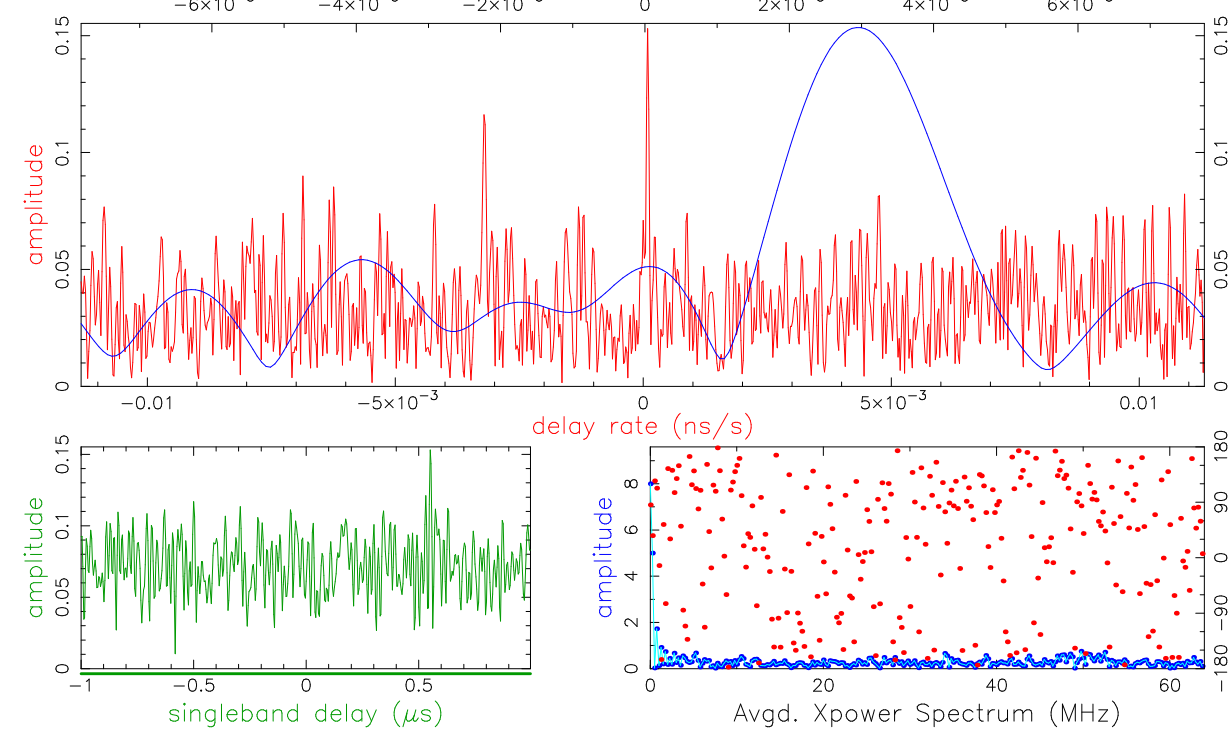
ph/seg (deg) 57.2 46.8 Theor. Amplitude 0.157 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.9 81.7 Search (1024X32) 0.150 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.2 28.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.8 49.3 Inc. seg. avg. 0.162 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 109.0 el 25.2 pa -47.8 Y: az 207.4 el 48.1 pa 20.8 u,v (fr/asec) -8044.222 -152.754 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/No0627//GY..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GY.W.57.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

aux01

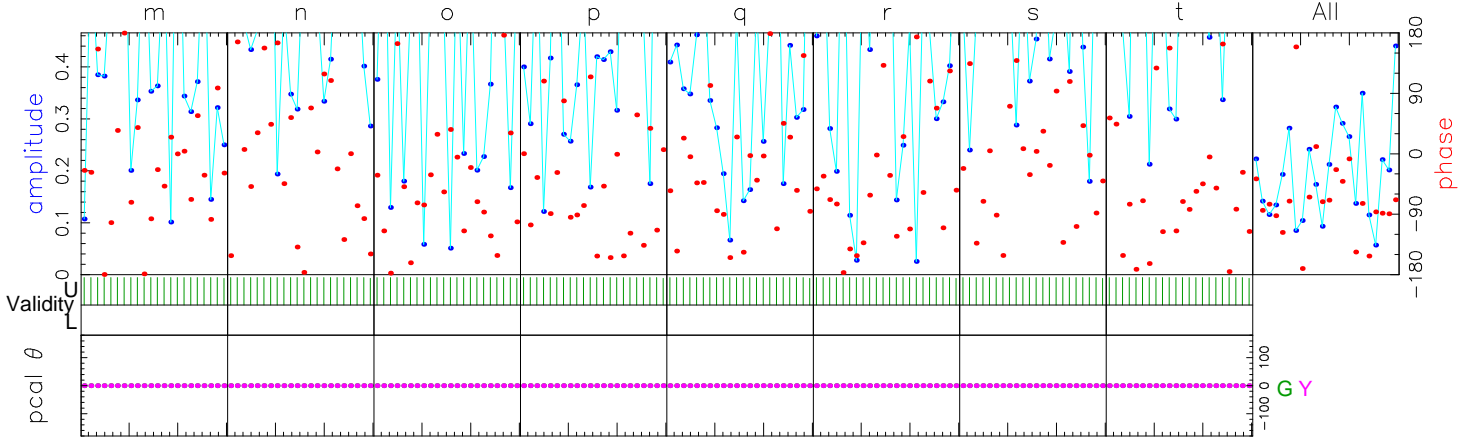
3C273.3MP1LL, No0627, GY

GBT_COLD - YEBES40M, fgroup W, pol RR



Fringe quality 0
 SNR 5.7
 Int time 179.776
 Amp 0.155
 Phase -68.1
 PFD 7.9e-01
 Delays (us)
 SBD 0.551949
 MBD 0.003043
 Fringe rate (Hz)
 0.007190
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171538
 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
	-38.6	-59.3	-85.5	-77.4	-56.1	-67.8	-41.5	-87.4	Phase	-68.1
	0.1	0.0	0.2	0.2	0.2	0.1	0.2	0.3	Ampl.	0.1
	183.1	55.3	357.2	353.9	416.4	245.3	11.4	33.7	Sbd box	398.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -6.57484886766E+03 Apriori delay (usec) -6.57539878604E+03 Resid mbdelay (usec) 3.04339E-03 +/- 1.9E-04
 Sband delay (usec) -6.57484683729E+03 Apriori clock (usec) 9.6085068E+01 Resid sbdelay (usec) 5.51949E-01 +/- 1.5E-03
 Phase delay (usec) -6.57539878824E+03 Apriori clockrate (us/s) -1.6987030E-06 Resid phdelay (usec) -2.19749E-06 +/- 6.5E-07
 Delay rate (us/s) 1.40699465659E+00 Apriori rate (us/s) 1.40699457312E+00 Resid rate (us/s) 8.34723E-08 +/- 6.2E-09
 Total phase (deg) -222.8 Apriori accel (us/s/s) 3.53689042340E-05 Resid phase (deg) -68.1 +/- 20.1

RMS Theor. Amplitude 0.155 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 52.0 47.2 Search (1024X32) 0.151 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 67.4 82.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 20.7 28.5 Inc. seg. avg. 0.149 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 40.8 49.7 Inc. frq. avg. 0.143 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 109.0 el 25.2 pa -47.8 Y: az 207.4 el 48.1 pa 20.8 u,v (fr/asec) -8044.222 -152.754 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GY..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GY.W.67.3MP1LL

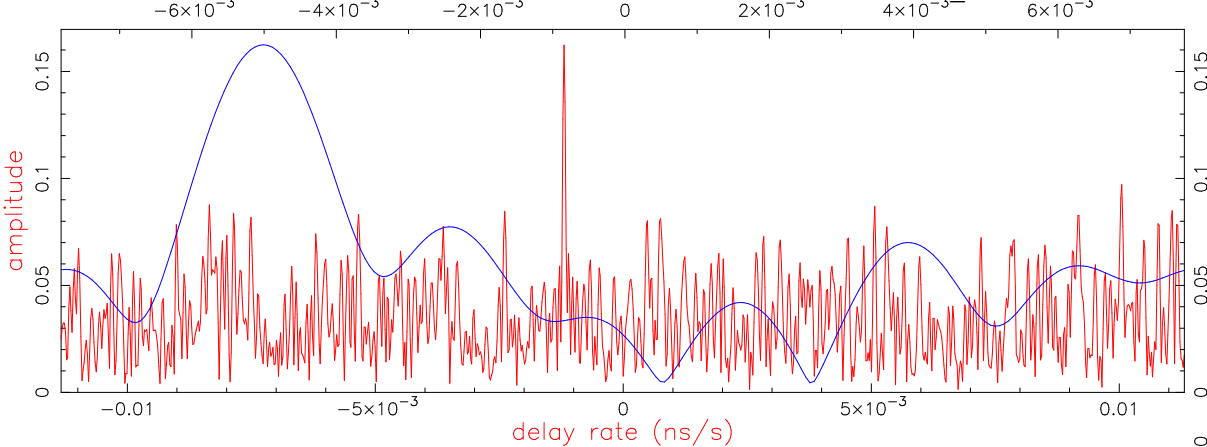
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GY

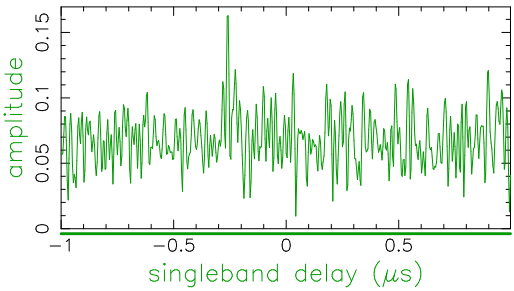
GBT_COLD - YEBES40M, fgroup W, pol LR

multiband delay (μ s)

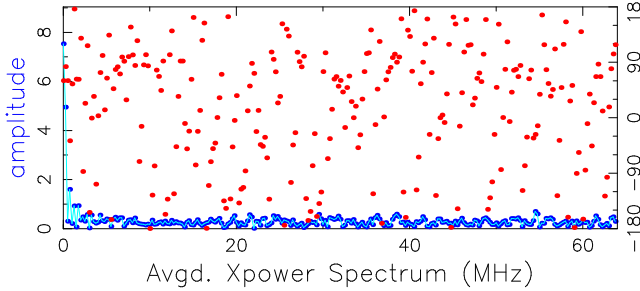


Fringe quality 0

SNR 6.2
 Int time 179.776
 Amp 0.170
 Phase -3.9
 PFD 7.7e-02
 Delays (us)
 SBD -0.259722
 MBD -0.004962
 Fringe rate (Hz)
 -0.103152
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

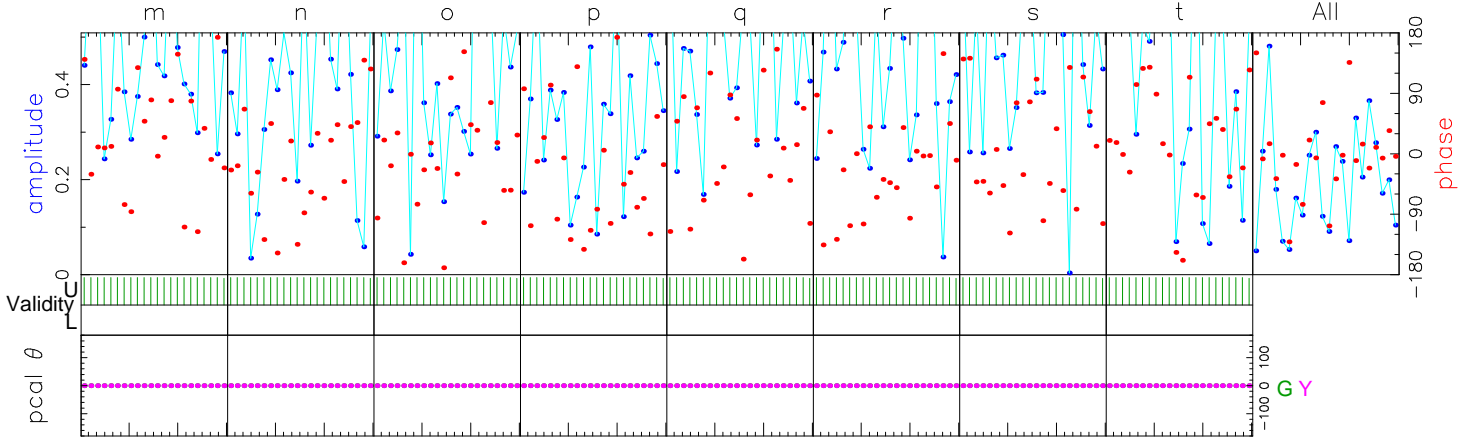


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171540
 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
	37.6	-12.6	-10.8	-62.2	-1.6	-24.5	-24.6	32.5	Phase	-3.9
	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.2	Ampl.	0.2
	418.3	400.5	327.3	479.5	504.1	85.8	500.8	190.0	Sbd box	190.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-6.57565374828E+03	Apriori delay (usec)	-6.57539878604E+03	Resid mbdelay (usec)	-4.96224E-03	+/-	1.8E-04
Sband delay (usec)	-6.57565850829E+03	Apriori clock (usec)	9.6085068E+01	Resid sbdelay (usec)	-2.59722E-01	+/-	1.4E-03
Phase delay (usec)	-6.57539878617E+03	Apriori clockrate (us/s)	-1.6987030E-06	Resid phdelay (usec)	-1.25937E-07	+/-	6.0E-07
Delay rate (us/s)	1.40699337563E+00	Apriori rate (us/s)	1.40699457312E+00	Resid rate (us/s)	-1.19749E-06	+/-	5.7E-09
Total phase (deg)	-158.6	Apriori accel (us/s/s)	3.53689042340E-05	Resid phase (deg)	-3.9	+/-	18.5

ph/seg (deg)	RMS 63.0	Theor. 43.4	Amplitude Search (1024X32)	0.170 +/- 0.027	0.161	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.4	75.8	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)	35.2	26.2	Inc. seg. avg.	0.156	0.156	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	37.5	45.7	Inc. frq. avg.	0.168	0.168	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

G: az 109.0 el 25.2 pa -47.8 Y: az 207.4 el 48.1 pa 20.8 u,v (fr/asec) -8044.222 -152.754 simultaneous interpolator

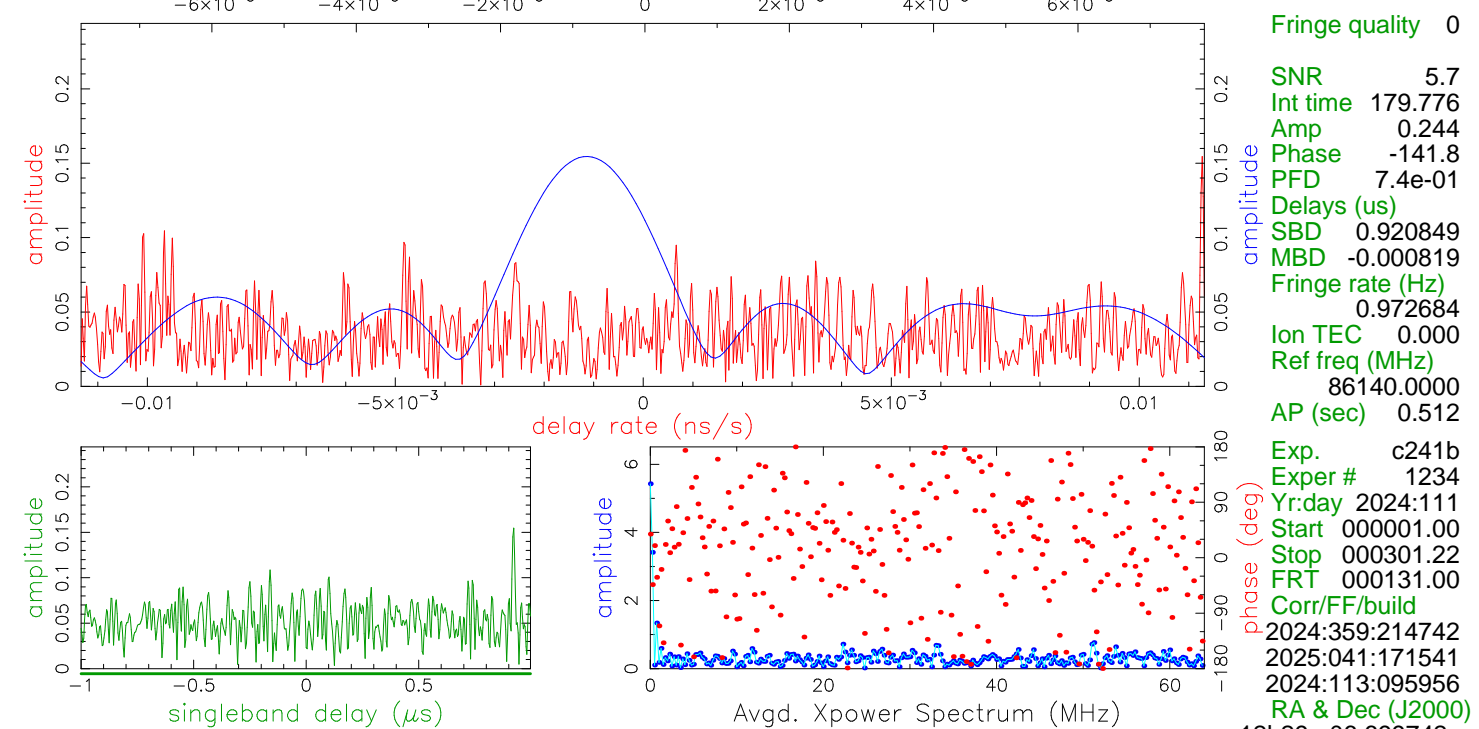
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GY..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GY.W.76.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

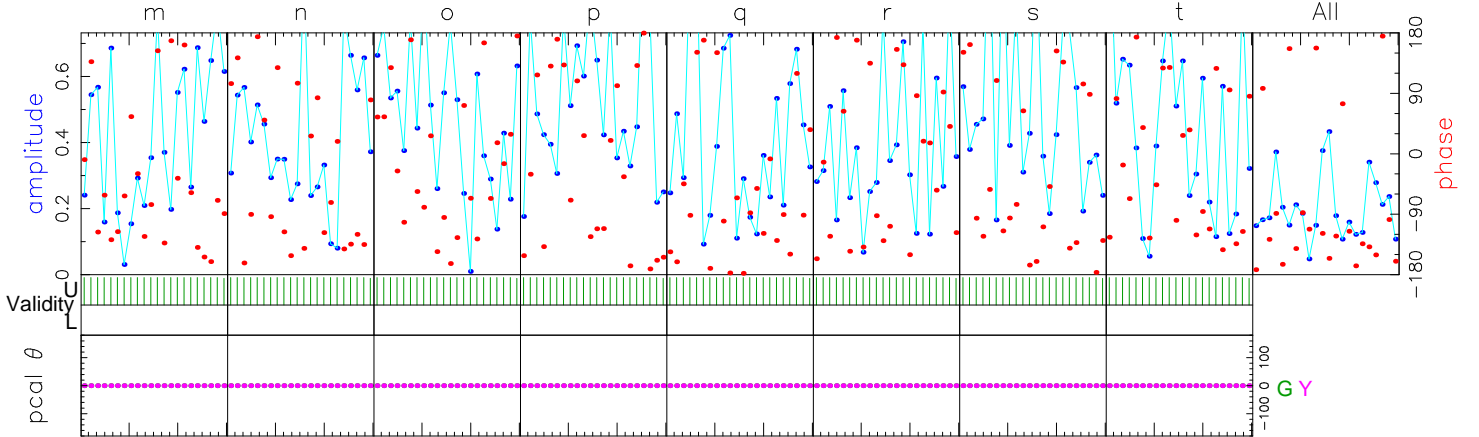
aux01

3C273.3MP1LL, No0627, GY

GBT_COLD - YEBES40M, 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
-125.7	-156.3	-112.1	-174.7	-143.3	-165.4	-139.0	-119.0	Phase	-141.8
0.4	0.3	0.1	0.2	0.3	0.1	0.4	0.2	Ampl.	0.2
305.9	461.8	225.2	7.1	204.9	122.5	492.3	15.9	Sbd box	492.7
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
Y 0	0	0	0	0	0	0	0	PC freqs	
G:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
G W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-6.57447773038E+03	Apriori delay (usec)	-6.57539878604E+03	Resid mbdelay (usec)	-8.19335E-04	+/-	1.9E-04
Sband delay (usec)	-6.57447793729E+03	Apriori clock (usec)	9.6085068E+01	Resid sbdelay (usec)	9.20849E-01	+/-	1.5E-03
Phase delay (usec)	-6.57539879061E+03	Apriori clockrate (us/s)	-1.6987030E-06	Resid phdelay (usec)	-4.57136E-06	+/-	6.5E-07
Delay rate (us/s)	1.40700586502E+00	Apriori rate (us/s)	1.40699457312E+00	Resid rate (us/s)	1.12919E-05	+/-	6.2E-09
Total phase (deg)	-296.4	Apriori accel (us/s/s)	3.53689042340E-05	Resid phase (deg)	-141.8	+/-	20.0

ph/seg (deg)	51.3	Theor.	47.0	Amplitude	0.244 +/- 0.043	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	69.3	Search (1024X32)	0.151	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	24.2	Inc. seg. avg.	0.239	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	47.9	Inc. frq. avg.	0.226	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

G: az 109.0 el 25.2 pa -47.8 Y: az 207.4 el 48.1 pa 20.8 u,v (fr/asec) -8044.222 -152.754 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GY..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GY.W.87.3MP1LL

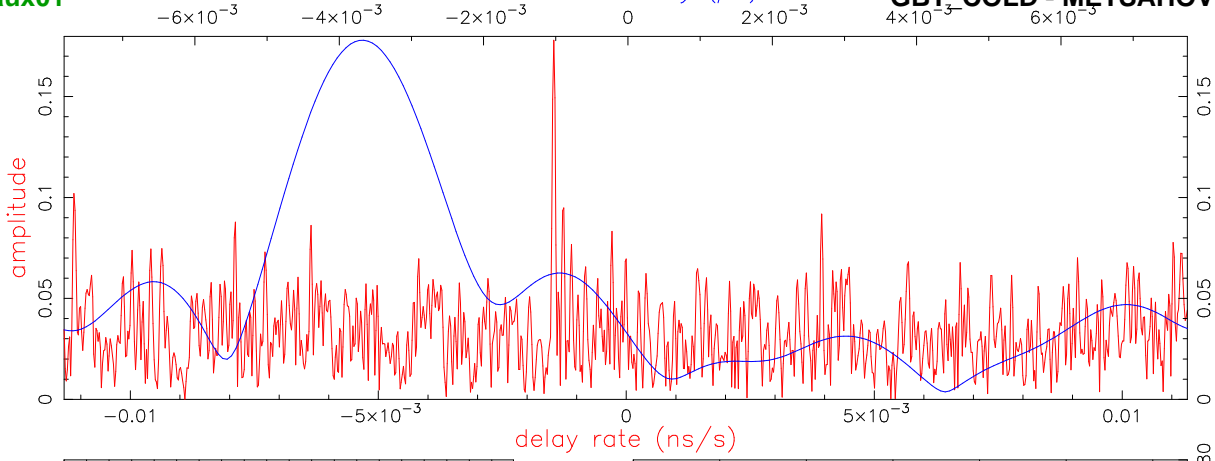
Mk4/DiFX fourfit 3.25 rev 0

aux01

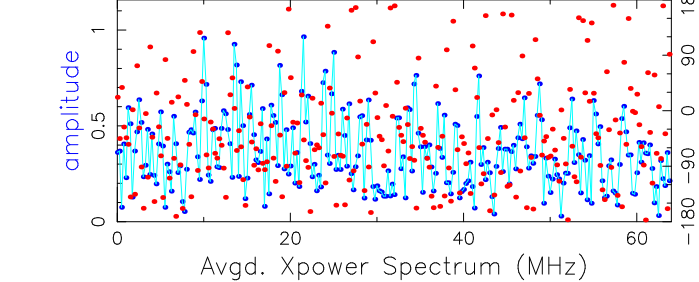
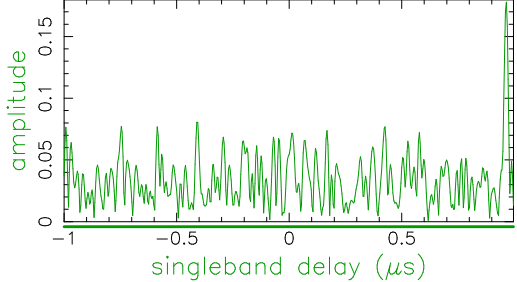
3C273.3MP1LL, No0627, GZ

GBT_COLD - METSAHOV, fgroup W, pol LL

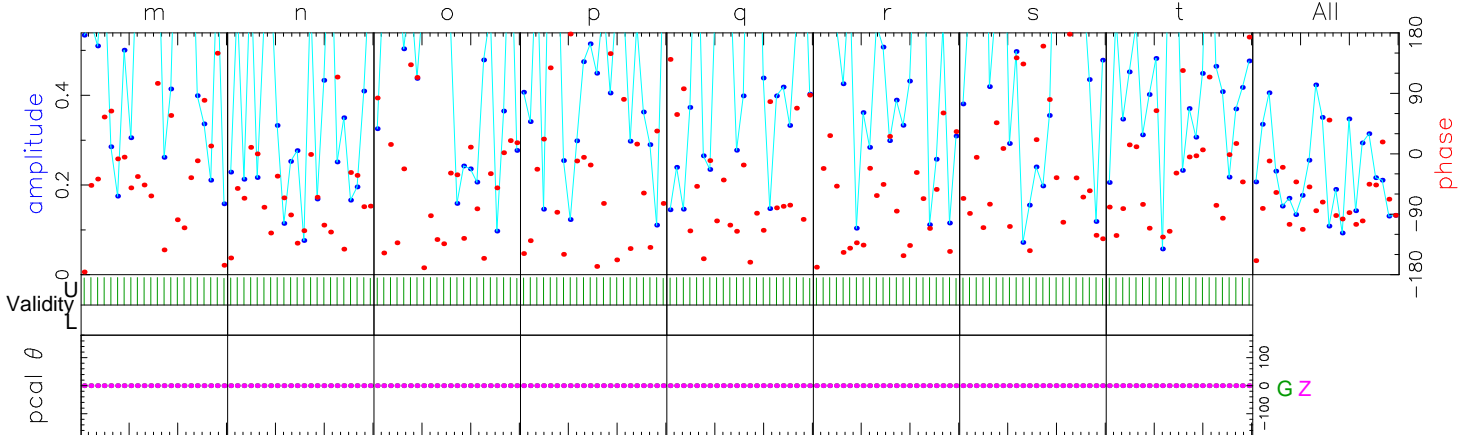
multiband delay (μ s)



Fringe quality 0
 SNR 6.5
 Int time 179.854
 Amp 0.180
 Phase -68.6
 PFD 8.3e-03
 Delays (us)
 SBD 0.964005
 MBD -0.003700
 Fringe rate (Hz)
 -0.126904
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171536
 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
	-38.5	-74.6	-90.0	-87.8	-87.9	-63.3	-65.5	-42.3	Phase	-68.6
	0.2	0.2	0.1	0.1	0.3	0.2	0.2	0.1	Ampl.	0.2
	128.9	503.8	136.0	3.8	53.8	386.3	107.2	366.7	Sbd box	503.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.14339880387E+03	Apriori delay (usec)	1.14243375412E+03	Resid mbdelay (usec)	-3.70025E-03	+/-	1.7E-04
Sband delay (usec)	1.14339775912E+03	Apriori clock (usec)	-1.4856335E+01	Resid sbdelay (usec)	9.64005E-01	+/-	1.3E-03
Phase delay (usec)	1.14243375191E+03	Apriori clockrate (us/s)	-5.3947688E-07	Resid phdelay (usec)	-2.21186E-06	+/-	5.6E-07
Delay rate (us/s)	1.58996372345E+00	Apriori rate (us/s)	1.58996519668E+00	Resid rate (us/s)	-1.47323E-06	+/-	5.4E-09
Total phase (deg)	140.1	Apriori accel (us/s/s)	-7.08455381411E-06	Resid phase (deg)	-68.6	+/-	17.5

ph/seg (deg) 45.6 41.0 Search (1024X32) 0.168 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.8 71.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.9 24.8 Inc. seg. avg. 0.183 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.8 43.2 Inc. frq. avg. 0.172 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 109.0 el 25.2 pa -47.8 Z: az 230.2 el 22.2 pa 22.6 u,v (fr/asec) -9115.181 -2198.661 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GZ..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GZ.W.59.3MP1LL

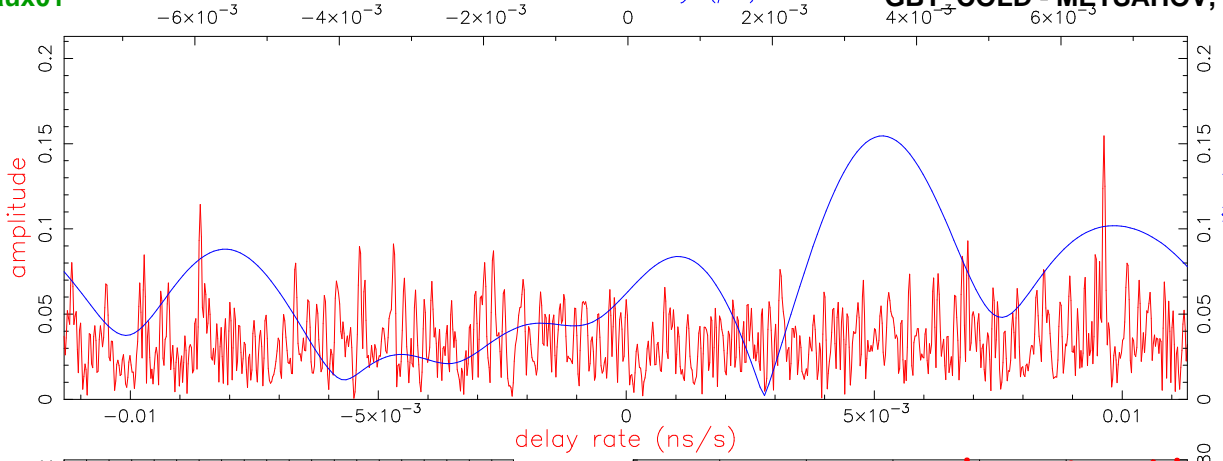
Mk4/DiFX fourfit 3.25 rev 0

aux01

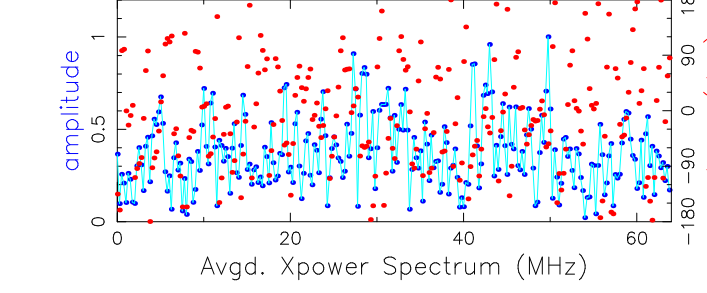
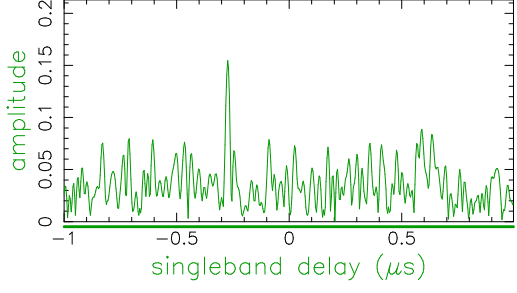
3C273.3MP1LL, No0627, GZ

GBT_COLD - METSAHOV, fgroup W, pol RR

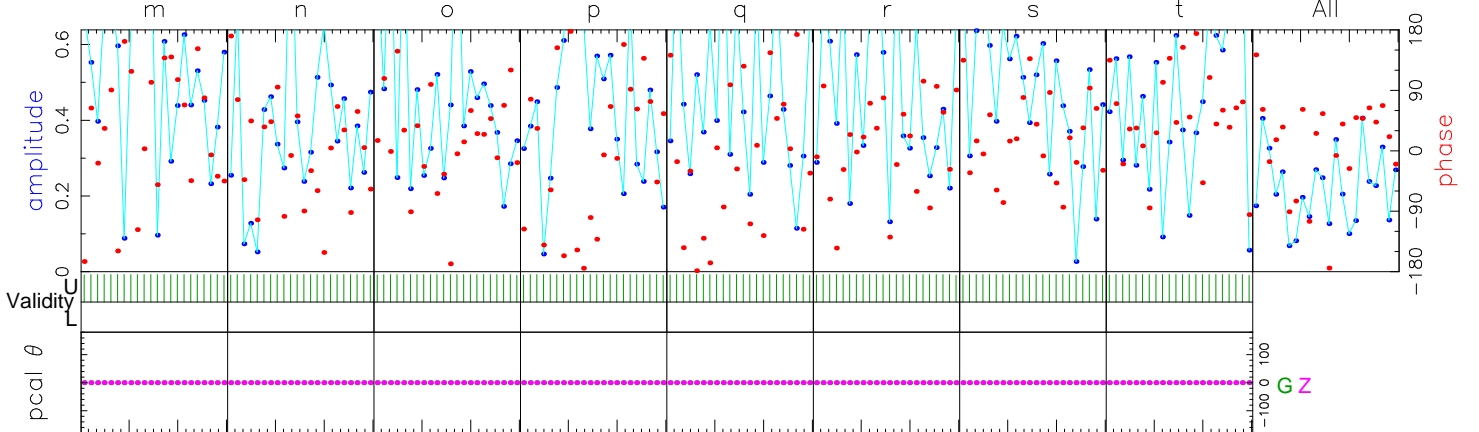
multiband delay (μ s)



Fringe quality 0
 SNR 5.7
 Int time 179.854
 Amp 0.213
 Phase 33.1
 PFD 8.1e-01
 Delays (us)
 SBD -0.272799
 MBD 0.003533
 Fringe rate (Hz) 0.831851
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171538
 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
	84.7	10.8	20.4	160.7	-42.1	24.5	16.1	57.5	Phase	33.1
	0.2	0.2	0.4	0.1	0.1	0.3	0.3	0.4	Ampl.	0.2
	457.4	73.6	186.2	139.1	411.2	184.8	188.0	188.0	Sbd box	187.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.14215603748E+03	Apriori delay (usec)	1.14243375412E+03	Resid mbdelay (usec)	3.53337E-03	+/-	1.9E-04
Sband delay (usec)	1.14216095512E+03	Apriori clock (usec)	-1.4856335E+01	Resid sbdelay (usec)	-2.72799E-01	+/-	1.5E-03
Phase delay (usec)	1.14243375518E+03	Apriori clockrate (us/s)	-5.3947688E-07	Resid phdelay (usec)	1.06724E-06	+/-	6.5E-07
Delay rate (us/s)	1.58997485365E+00	Apriori rate (us/s)	1.58996519668E+00	Resid rate (us/s)	9.65697E-06	+/-	6.3E-09
Total phase (deg)	241.8	Apriori accel (us/s/s)	-7.08455381411E-06	Resid phase (deg)	33.1	+/-	20.2

ph/seg (deg) 66.3 47.3 Search (1024X32) 0.149 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.2 82.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 66.1 28.5 Inc. seg. avg. 0.229 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 58.3 49.8 Inc. frq. avg. 0.240 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 109.0 el 25.2 pa -47.8 Z: az 230.2 el 22.2 pa 22.6 u,v (fr/asec) -9115.181 -2198.661 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GZ..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GZ.W.68.3MP1LL

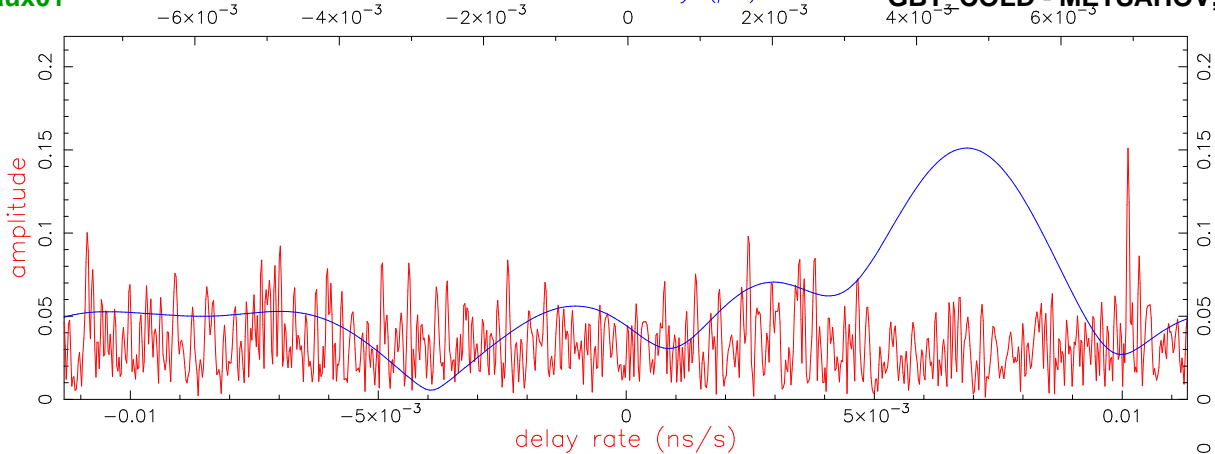
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1LL, No0627, GZ

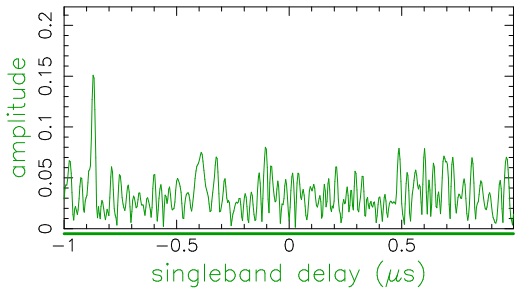
GBT_COLD - METSAHOV, fgroup W, pol LR

multiband delay (μ s)

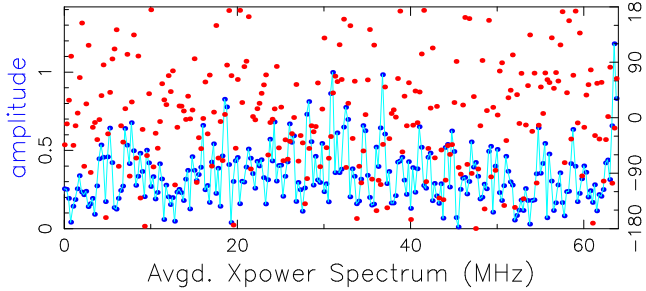


Fringe quality 0

SNR 5.6
 Int time 179.854
 Amp 0.218
 Phase 6.6
 PFD 9.0e-01
 Delays (us)
 SBD -0.869528
 MBD 0.004739
 Fringe rate (Hz)
 0.872203
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

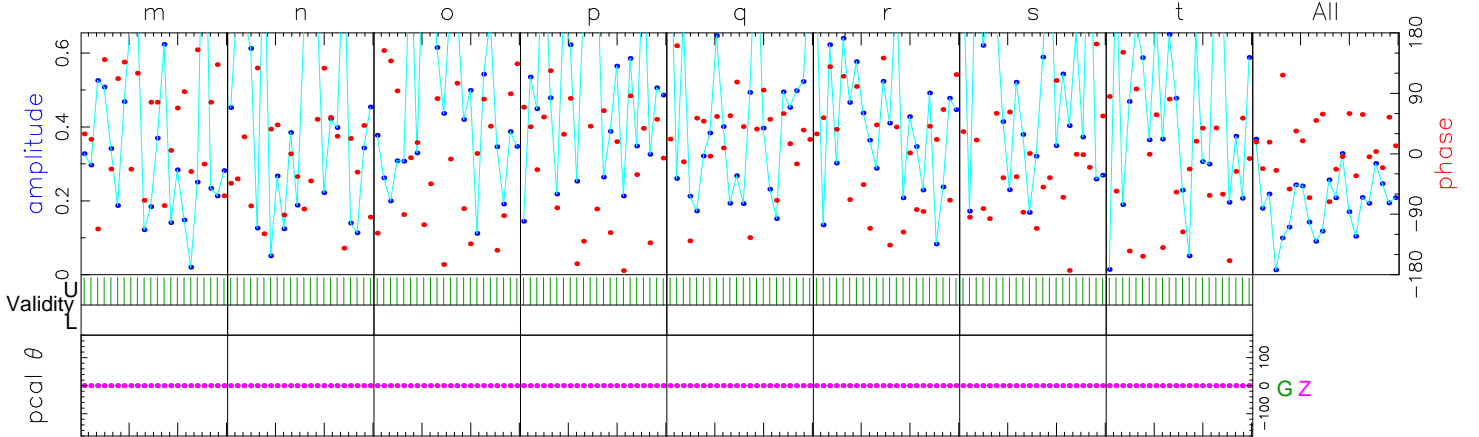


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171540
 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		
G	0	0	0	0	0	0	0	0		
Z	0	0	0	0	0	0	0	0		
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	1.14156349359E+03	Apriori delay (usec)	1.14243375412E+03	Resid mbdelay (usec)	4.73947E-03	+/-	1.9E-04
Sband delay (usec)	1.14156422562E+03	Apriori clock (usec)	-1.4856335E+01	Resid sbdelay (usec)	-8.69528E-01	+/-	1.5E-03
Phase delay (usec)	1.14243375433E+03	Apriori clockrate (us/s)	-5.3947688E-07	Resid phdelay (usec)	2.11264E-07	+/-	6.6E-07
Delay rate (us/s)	1.58997532209E+00	Apriori rate (us/s)	1.58996519668E+00	Resid rate (us/s)	1.01254E-05	+/-	6.3E-09
Total phase (deg)	215.2	Apriori accel (us/s/s)	-7.08455381411E-06	Resid phase (deg)	6.6	+/-	20.4

ph/seg (deg)	45.6	Theor.	47.8	Amplitude	0.218 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	59.2		83.4	Search (1024X32)	0.146	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	32.8		28.8	Inc. seg. avg.	0.204	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	57.6		50.3	Inc. frq. avg.	0.218	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
G: az 109.0 el 25.2 pa -47.8	Z: az 230.2 el 22.2 pa 22.6	u, v (fr/asec)	-9115.181 -2198.661			Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GZ..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GZ.W.79.3MP1LL

Mk4/DiFX fourfit 3.25 rev 0

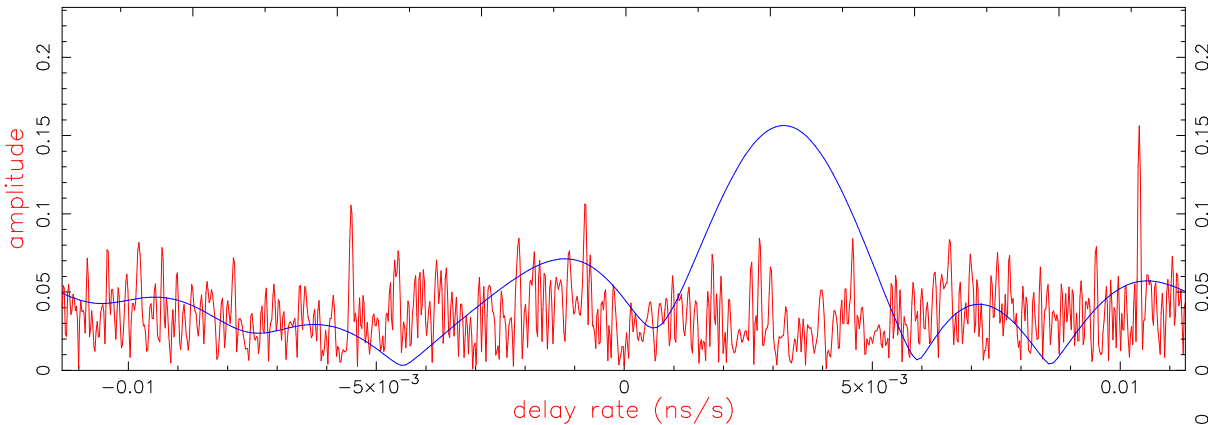
aux01

3C273.3MP1LL, No0627, GZ

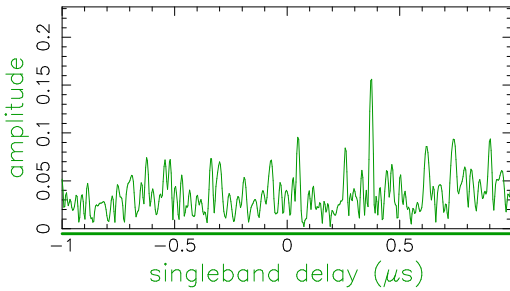
GBT_COLD - METSAHOV, fgroup W, pol RL

multiband delay (μ s)

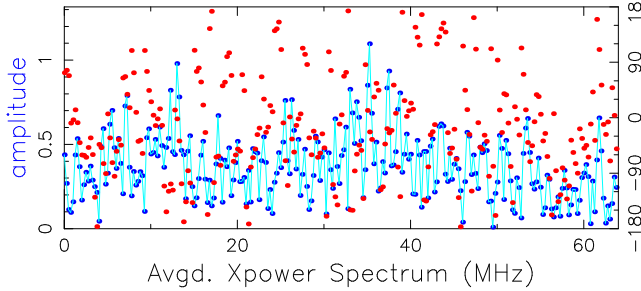
Fringe quality 0



SNR 5.8
 Int time 179.854
 Amp 0.232
 Phase -68.5
 PFD 4.7e-01
 Delays (us)
 SBD 0.373263
 MBD 0.002129
 Fringe rate (Hz) 0.896787
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

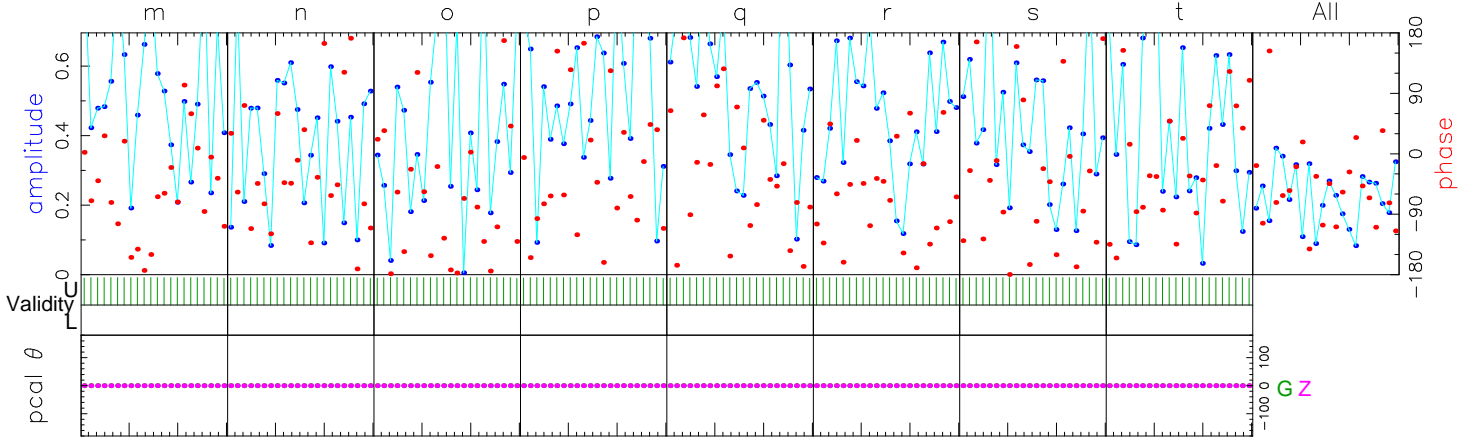


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 000001.00
 Stop 000301.22
 FRT 000131.00
 Corr/FF/build
 2024:359:214742
 2025:041:171542
 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
	-60.7	-57.0	-121.8	-69.0	-43.7	-63.7	-81.5	-34.4	Phase	-68.5
	0.4	0.3	0.3	0.3	0.1	0.3	0.2	0.2	Ampl.	0.2
	412.6	108.6	486.7	447.6	445.2	351.2	316.1	119.0	Sbd box	352.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.14281088298E+03	Apriori delay (usec)	1.14243375412E+03	Resid mbdelay (usec)	2.12887E-03	+/-	1.9E-04
Sband delay (usec)	1.14280701687E+03	Apriori clock (usec)	-1.4856335E+01	Resid sbdelay (usec)	3.73263E-01	+/-	1.5E-03
Phase delay (usec)	1.14243375191E+03	Apriori clockrate (us/s)	-5.3947688E-07	Resid phdelay (usec)	-2.20907E-06	+/-	6.3E-07
Delay rate (us/s)	1.58997560749E+00	Apriori rate (us/s)	1.58996519668E+00	Resid rate (us/s)	1.04108E-05	+/-	6.1E-09
Total phase (deg)	140.2	Apriori accel (us/s/s)	-7.08455381411E-06	Resid phase (deg)	-68.5	+/-	19.6

ph/seg (deg)	55.8	Theor.	46.0	Amplitude	0.232 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	65.2	Search (1024X32)	0.152	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	28.9	Inc. seg. avg.	0.248	Inc. frq. avg.	0.221	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	36.0	Inc. frq. avg.	0.221			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

G: az 109.0 el 25.2 pa -47.8 Z: az 230.2 el 22.2 pa 22.6 u, v (fr/asec) -9115.181 -2198.661 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0627//GZ..3MP1LL Output file: /Exps/c241b/v2/3mm/1234/No0627//GZ.W.90.3MP1LL