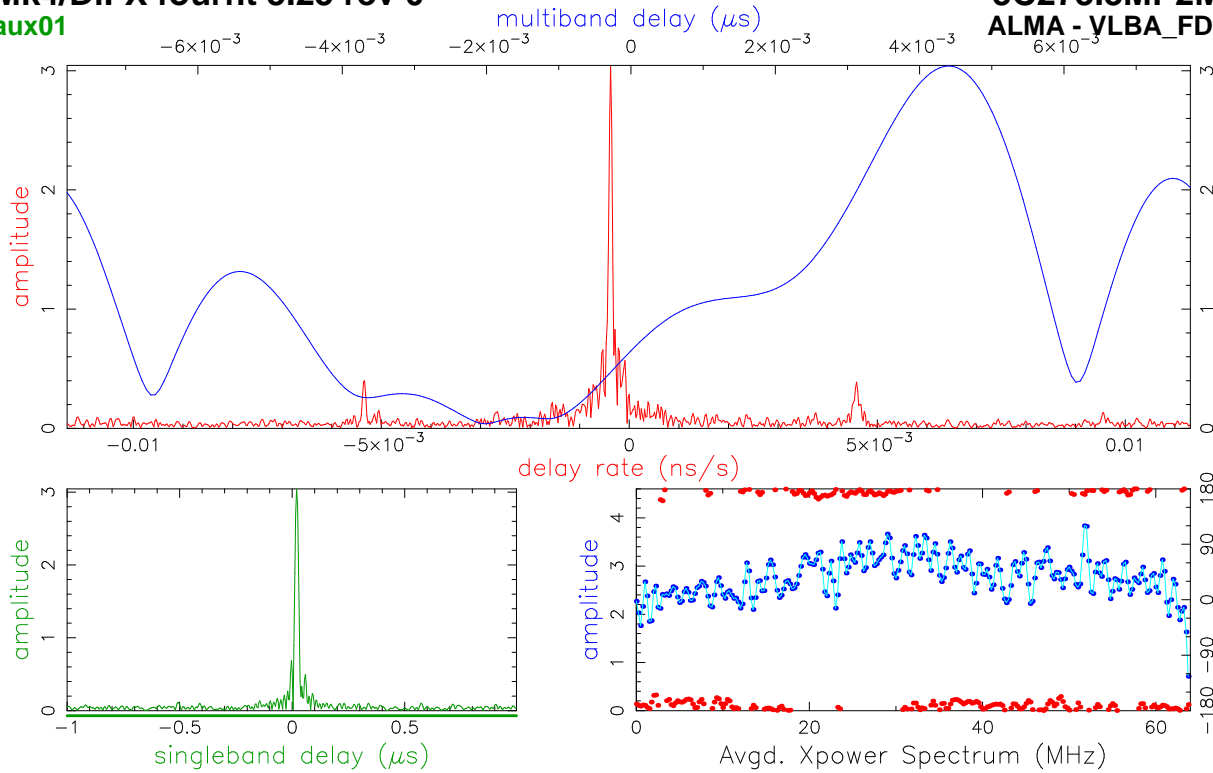


Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Af

ALMA - VLBA_FD, fgroup W, pol XR

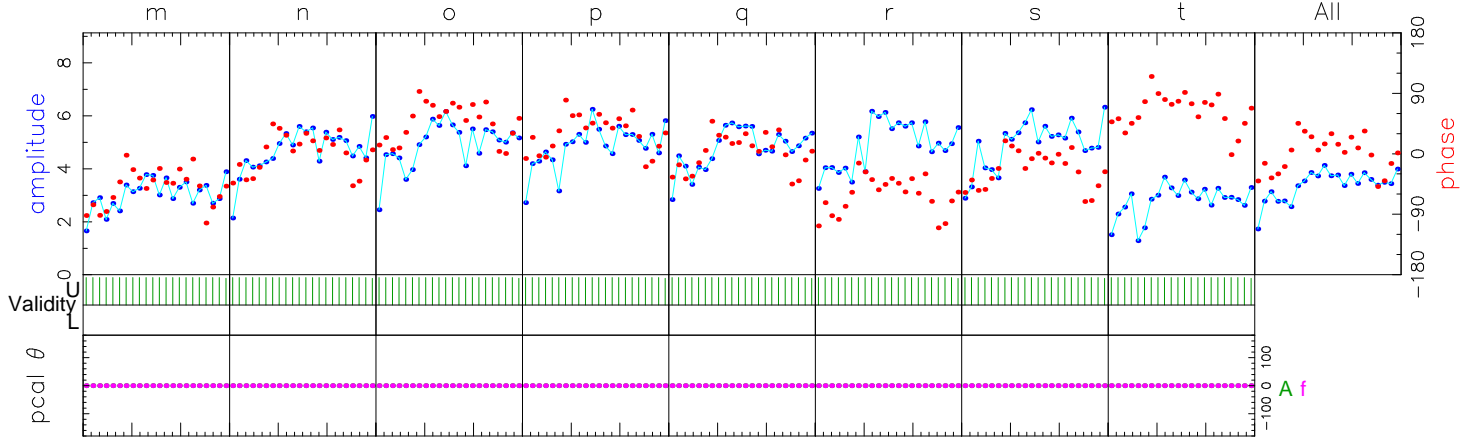


Fringe quality 3

SNR 111.7
 Int time 179.983
 Amp 3.045
 Phase 2.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.020035
 MBD 0.004430
 Fringe rate (Hz)
 -0.031563
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175906
 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	
	-48.8	4.3	49.6	32.8	4.2	-58.6	-21.0	65.1	Phase	2.8	
	2.7	4.2	4.4	4.3	4.3	4.4	4.5	2.5	Ampl.	3.9	
	264.1	262.4	262.0	262.0	261.7	262.0	262.5	264.4	Sbd box	262.1	
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		
f	0	0	0	0	0	0	0	0	PC freqs		
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
A:f	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		
f	1000	1000	1000	1000	1000	1000	1000	1000			
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	-6.44420462366E+02		Apriori delay (usec)		-6.44440517772E+02		Resid mbdelay (usec)		4.43041E-03	+/- 9.7E-06	
Sband delay (usec)	-6.44420482522E+02		Apriori clock (usec)		-2.1074705E+03		Resid sbdelay (usec)		2.00353E-02	+/- 7.7E-05	
Phase delay (usec)	-6.44440517683E+02		Apriori clockrate (us/s)		-6.1051858E-08		Resid phdelay (usec)		8.95238E-08	+/- 3.3E-08	
Delay rate (us/s)	-8.49489783298E-01		Apriori rate (us/s)		-8.49489416878E-01		Resid rate (us/s)		-3.66421E-07	+/- 3.2E-10	
Total phase (deg)			Apriori accel (us/s/s)		-1.11692820398E-05		Resid phase (deg)		2.8	+/- 1.0	
	RMS	Theor.	Amplitude		3.045 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	26.8	2.4	Search (1024X32)		2.921		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	21.0	4.2	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	48.3	1.5	Inc. seg. avg.		3.374		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
amp/frq (%)	37.9	2.5	Inc. frq. avg.		3.920		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00	
A: az 330.6 el 61.8 pa 152.8		f: az 138.7 el 54.1 pa -34.5		u,v (fr/asec) 4860.053 -7986.814						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0707//Af..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//Af.W.12.3MP2MB							

Mk4/DiFX fourfit 3.25 rev 0

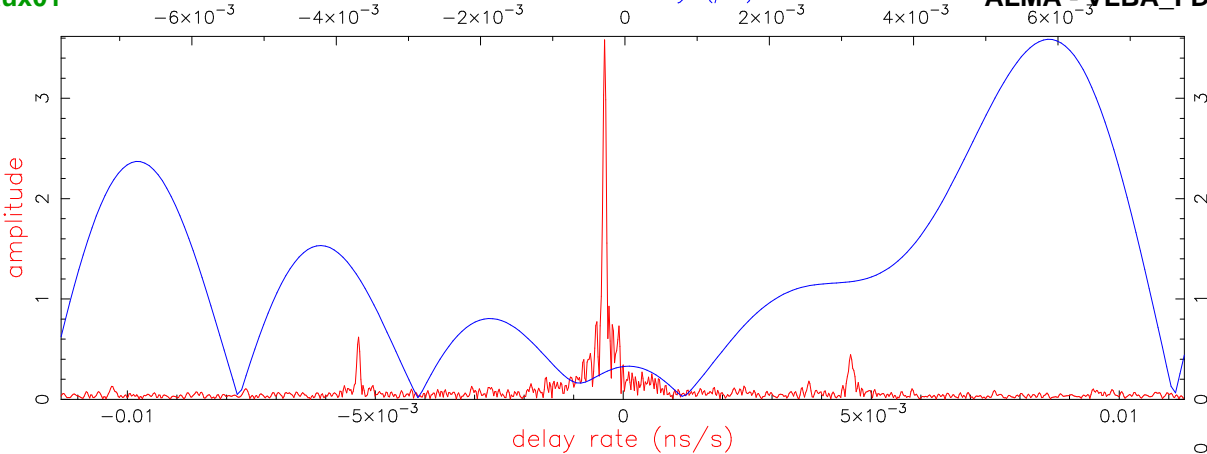
aux01

3C273.3MP2MB, No0707, Af

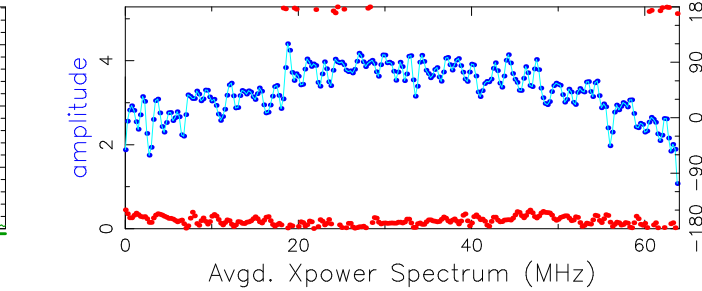
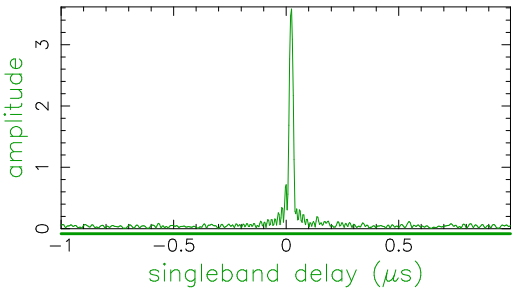
ALMA - VLBA_FD, fgroup W, pol YL

multiband delay (μ s)

Fringe quality 3

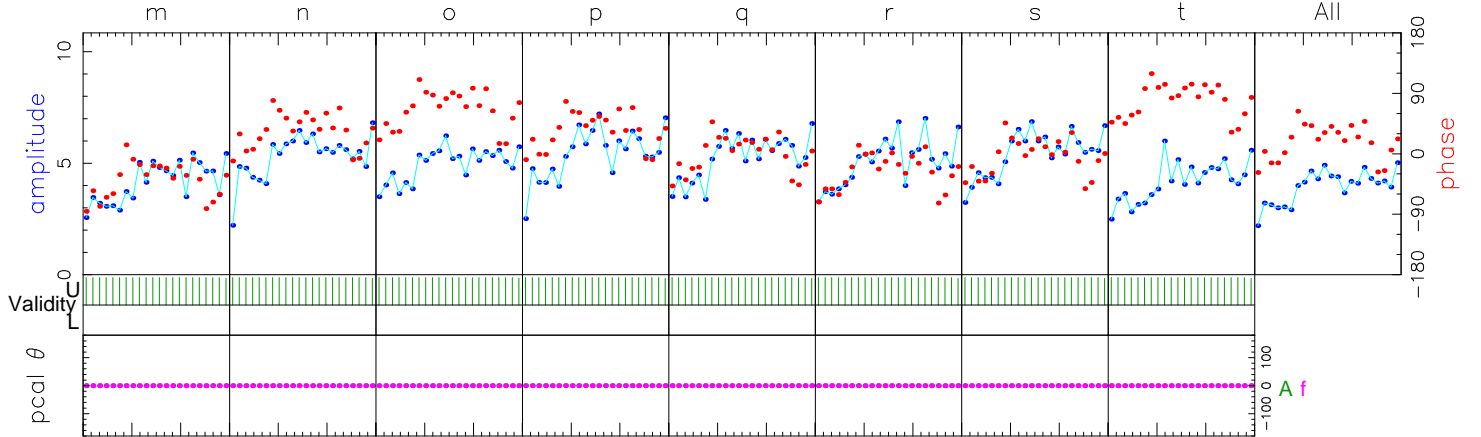


SNR 132.6
Int time 179.983
Amp 3.617
Phase 20.2
PFD 0.0e+00
Delays (us)
SBD 0.022180
MBD 0.005814
Fringe rate (Hz)
-0.031710
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175908
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
	-36.0	37.4	68.2	38.0	2.2	-22.7	-2.4	81.1	Phase	20.2
	3.7	4.8	4.4	4.9	4.8	4.6	4.9	3.8	Ampl.	4.5
	264.4	262.9	262.2	262.5	262.2	262.4	262.9	264.5	Sbd box	262.7
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	
f	0	0	0	0	0	0	0	0	PC freqs	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-6.44419079116E+02	Apriori delay (usec)	-6.44440517772E+02	Resid mbdelay (usec)	5.81366E-03	+/-	8.2E-06
Sband delay (usec)	-6.44418338022E+02	Apriori clock (usec)	-2.1074705E+03	Resid sbdelay (usec)	2.21798E-02	+/-	6.5E-05
Phase delay (usec)	-6.44440517122E+02	Apriori clockrate (us/s)	-6.1051858E-08	Resid phdelay (usec)	6.50131E-07	+/-	2.8E-08
Delay rate (us/s)	-8.49489784995E-01	Apriori rate (us/s)	-8.49489416878E-01	Resid rate (us/s)	-3.68117E-07	+/-	2.7E-10
Total phase (deg)	-52.2	Apriori accel (us/s/s)	-1.11692820398E-05	Resid phase (deg)	20.2	+/-	0.9

ph/seg (deg)	25.8	RMS	2.0	Theor.	3.617 +/- 0.027	Search (1024X32)	3.484	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	21.8	Search	1024X32	3.484	PCal rate: 0.000E+00, 0.000E+00 (us/s)	Interp.	0.000	sb window (us)	-1.000 1.000
ph/frq (deg)	45.6	Inc. seg. avg.	3.940	Inc. frq. avg.	4.508	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	27.5	Inc. frq. avg.	4.508	u,v (fr/asec)	4860.053 -7986.814	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
A: az 330.6 el 61.8 pa 152.8	f: az 138.7 el 54.1 pa -34.5					Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//Af..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//Af.W.21.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

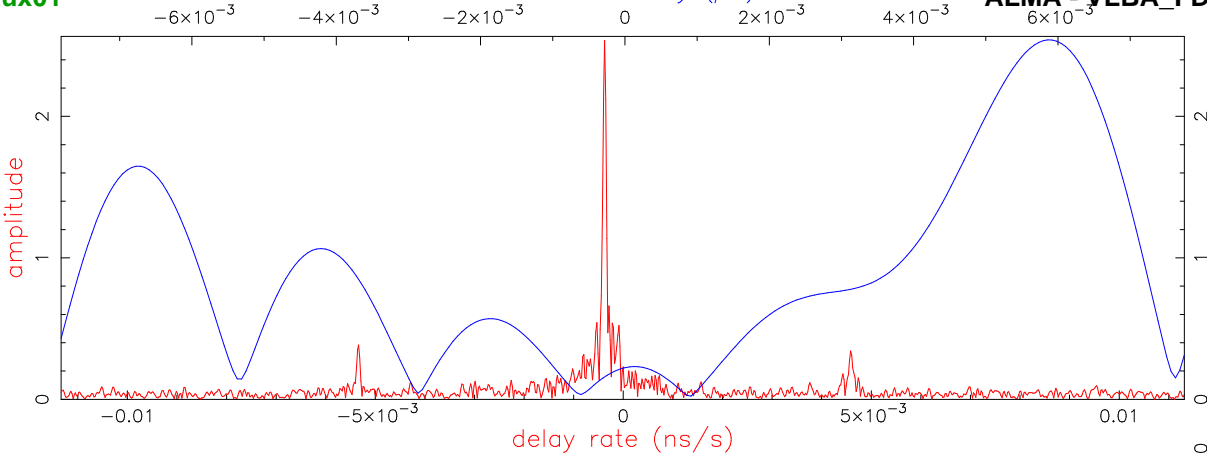
aux01

3C273.3MP2MB, No0707, Af

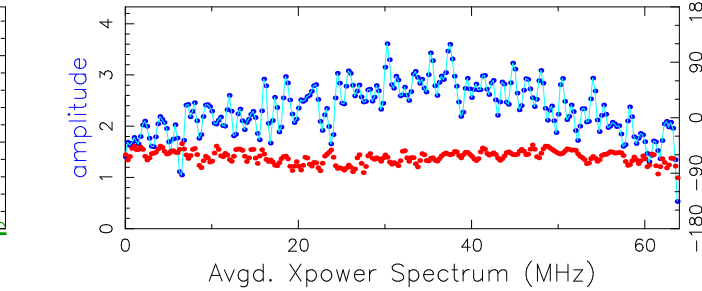
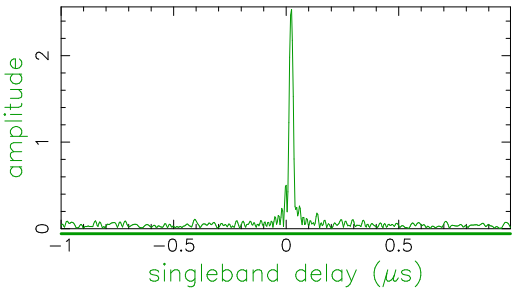
ALMA - VLBA_FD, fgroup W, pol XL

multiband delay (μ s)

Fringe quality 3

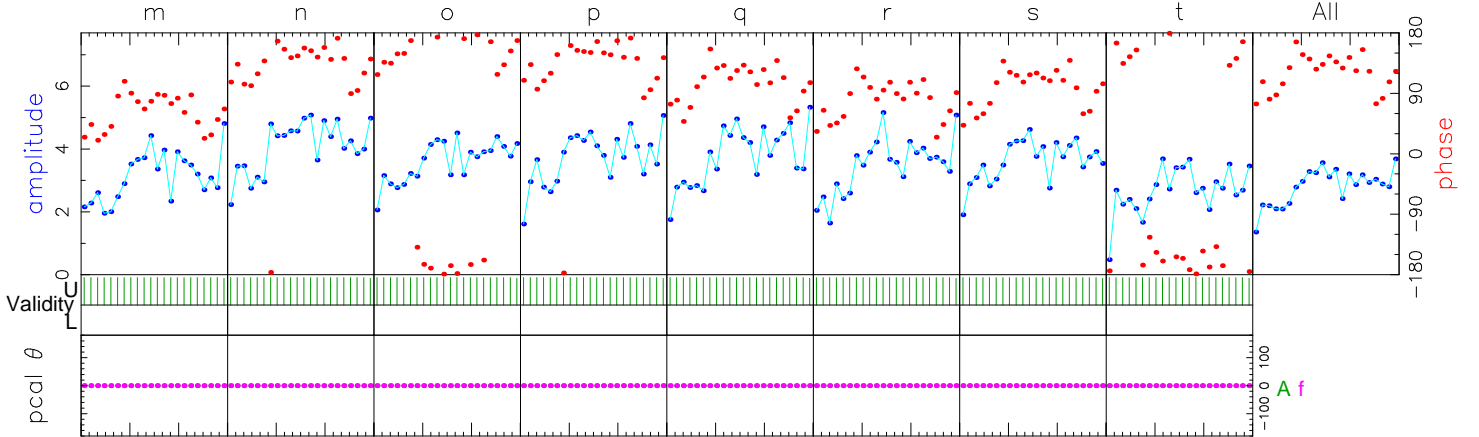


SNR 94.1
 Int time 179.983
 Amp 2.565
 Phase 123.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.022068
 MBD 0.005809
 Fringe rate (Hz)
 -0.031762
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175901
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



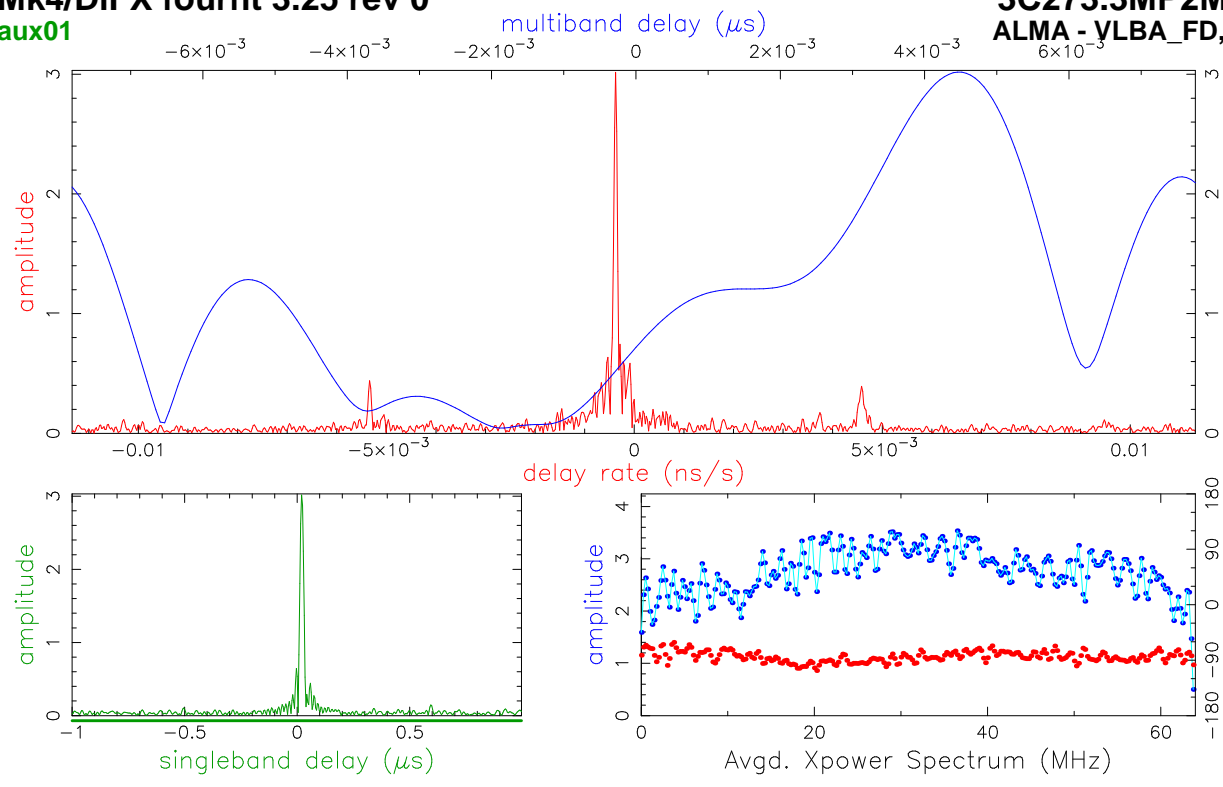
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
f	0	0	0	0	0	0	0	0		
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-6.44419083648E+02	Apriori delay (usec)	-6.44440517772E+02	Resid mbdelay (usec)	5.80912E-03	+/-	1.2E-05
Sband delay (usec)	-6.44418449522E+02	Apriori clock (usec)	-2.1074705E+03	Resid sbdelay (usec)	2.20683E-02	+/-	9.2E-05
Phase delay (usec)	-6.44440513798E+02	Apriori clockrate (us/s)	-6.1051858E-08	Resid phdelay (usec)	3.97478E-06	+/-	3.9E-08
Delay rate (us/s)	-8.49489785600E-01	Apriori rate (us/s)	-8.49489416878E-01	Resid rate (us/s)	-3.68722E-07	+/-	3.8E-10
Total phase (deg)	50.9	Apriori accel (us/s/s)	-1.11692820398E-05	Resid phase (deg)	123.3	+/-	1.2

ph/seg (deg)	26.5	RMS	2.9	Theor.	2.9	Amplitude	2.565 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	23.6	Search (1024X32)	2.477	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	45.0	Inc. seg. avg.	2.795	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
amp/frq (%)	27.3	Inc. frq. avg.	3.157									

A: az 330.6 el 61.8 pa 152.8 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) 4860.053 -7986.814 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//Af..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//Af.W.4.3MP2MB

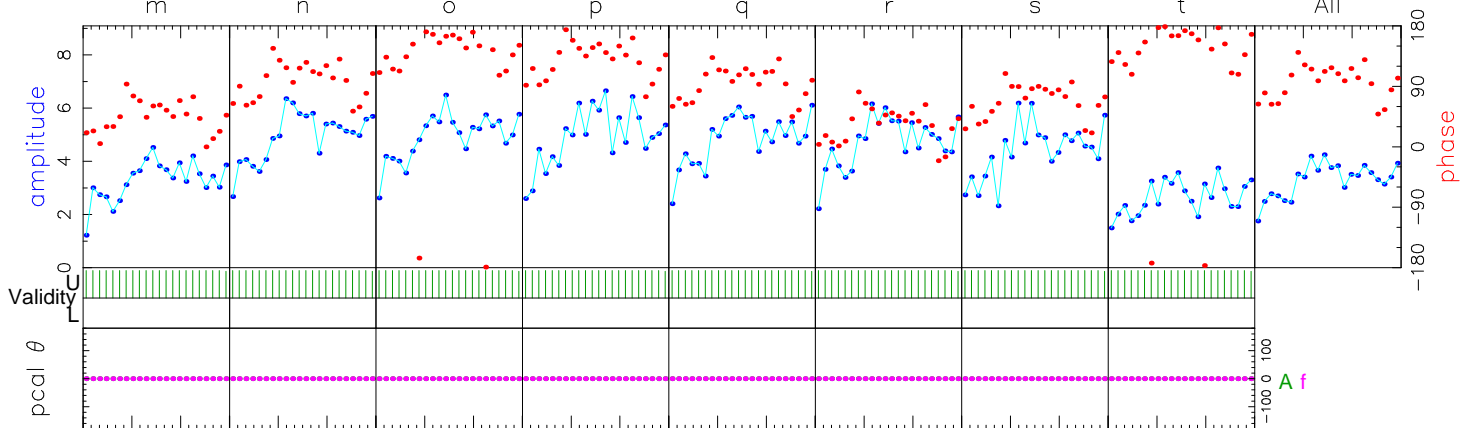


Fringe quality 3

SNR 111.2
Int time 179.983
Amp 3.032
Phase 98.7
PFD 0.0e+00
Delays (us)
SBD 0.020435
MBD 0.004529
Fringe rate (Hz)
-0.031719
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175903
2024:113:095956
RA & Dec (J2000)
12h29m06.699742s
+02°03'08.598116"

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



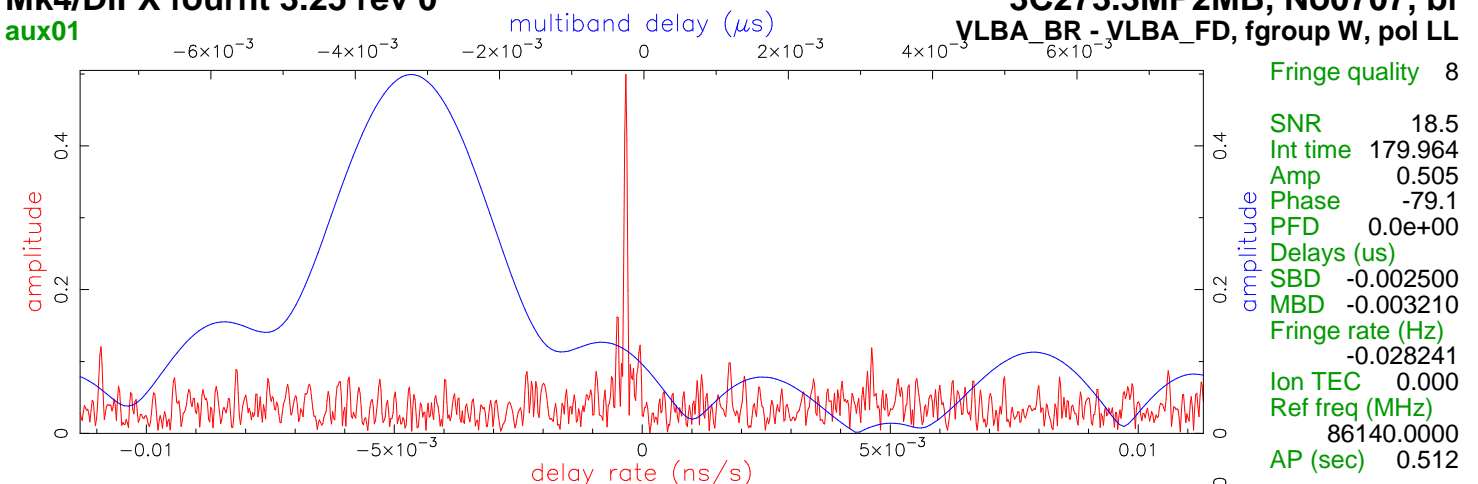
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec) (SBD)	-6.44420363835E+02								4.52894E-03	+/- 9.8E-06
Sband delay (usec)	-6.44420083022E+02								2.04348E-02	+/- 7.7E-05
Phase delay (usec)	-6.44440514590E+02								3.18231E-06	+/- 3.3E-08
Delay rate (us/s)	-8.49489785106E-01								-3.68229E-07	+/- 3.2E-10
Total phase (deg)			26.4						98.7	+/- 1.0
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us										
Data rate(Mb/s): 2048										
nlags: 256 t_cohere infinite										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
simultaneous interpolator										

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bf

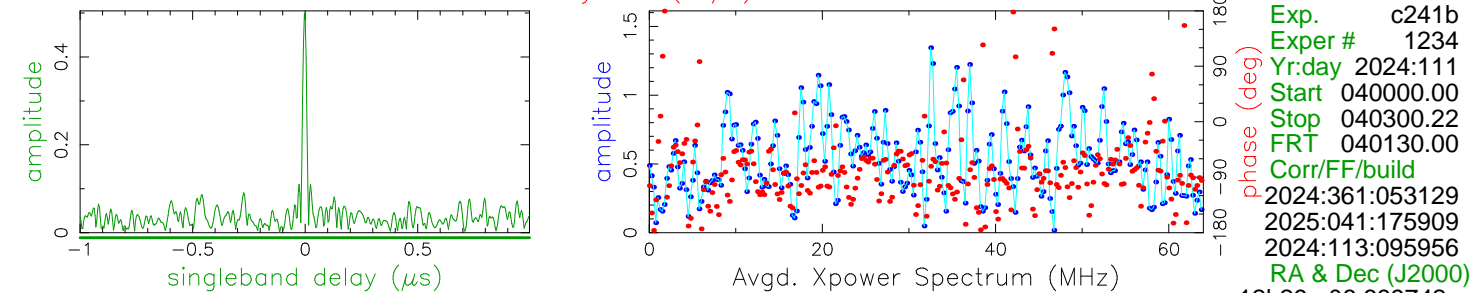
VLBA_BR - VLBA_FD, fgroup W, pol LL



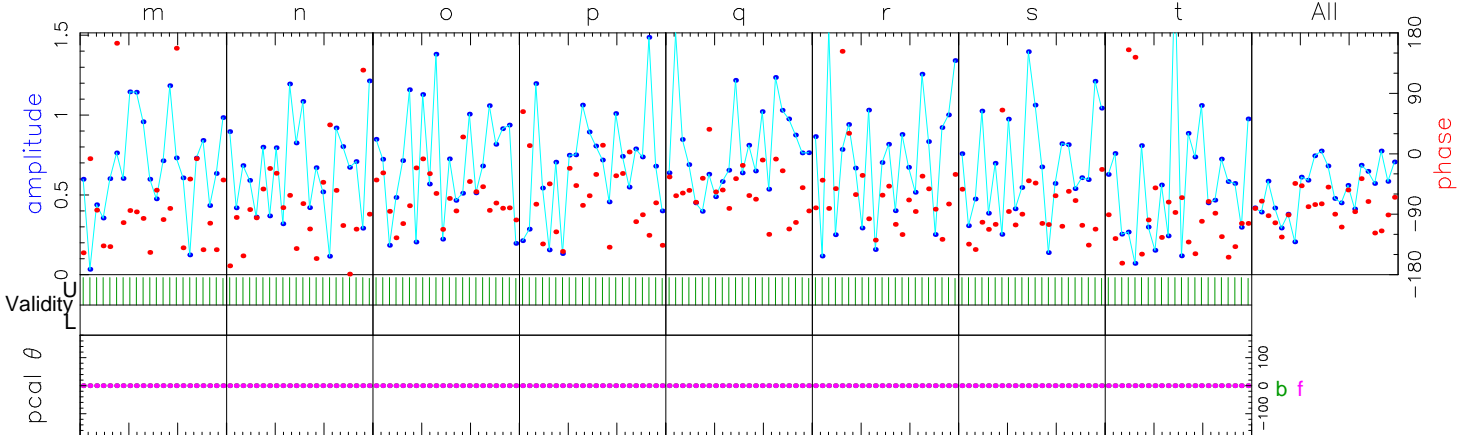
Fringe quality 8

SNR 18.5
 Int time 179.964
 Amp 0.505
 Phase -79.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.002500
 MBD -0.003210
 Fringe rate (Hz)
 -0.028241
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175909
 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
	-106.4	-94.4	-60.9	-68.3	-52.1	-69.7	-82.7	-114.6	Phase	-79.1
	0.5	0.5	0.6	0.5	0.7	0.5	0.6	0.5	Ampl.	0.5
	256.1	257.2	256.6	255.9	255.9	256.2	256.2	255.8	Sbd box	256.4
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	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-5.58026626360E+03		Apriori delay (usec)		-5.58026305383E+03		Resid mbdelay (usec)		-3.20978E-03	+/- 5.9E-05
Sband delay (usec)	-5.58026555358E+03		Apriori clock (usec)		4.5655746E+00		Resid sbdelay (usec)		-2.49975E-03	+/- 4.7E-04
Phase delay (usec)	-5.58026305638E+03		Apriori clockrate (us/s)		5.2622099E-07		Resid phdelay (usec)		-2.54997E-06	+/- 2.0E-07
Delay rate (us/s)	1.31167185042E-01		Apriori rate (us/s)		1.31167512897E-01		Resid rate (us/s)		-3.27855E-07	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		3.05839080410E-05		Resid phase (deg)		-79.1	+/- 6.2

ph/seg (deg) 24.1 14.5 Theor. Amplitude 0.505 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 31.5 25.3 Search (1024X32) 0.485 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.2 8.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.2 15.3 Inc. seg. avg. 0.527 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 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/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.22.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

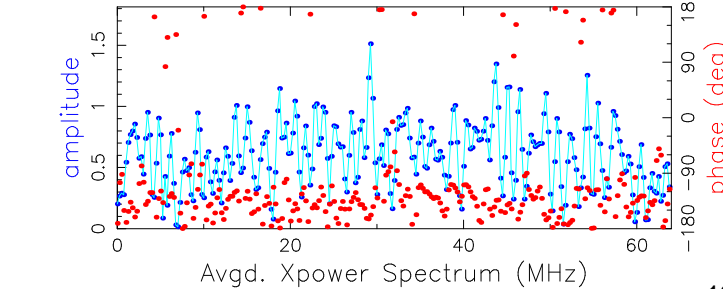
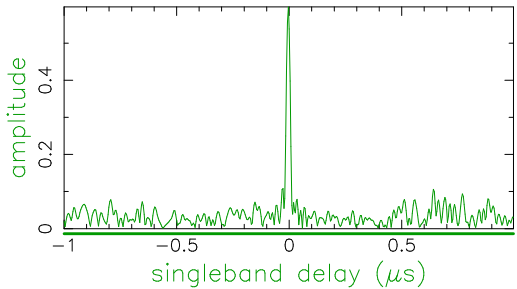
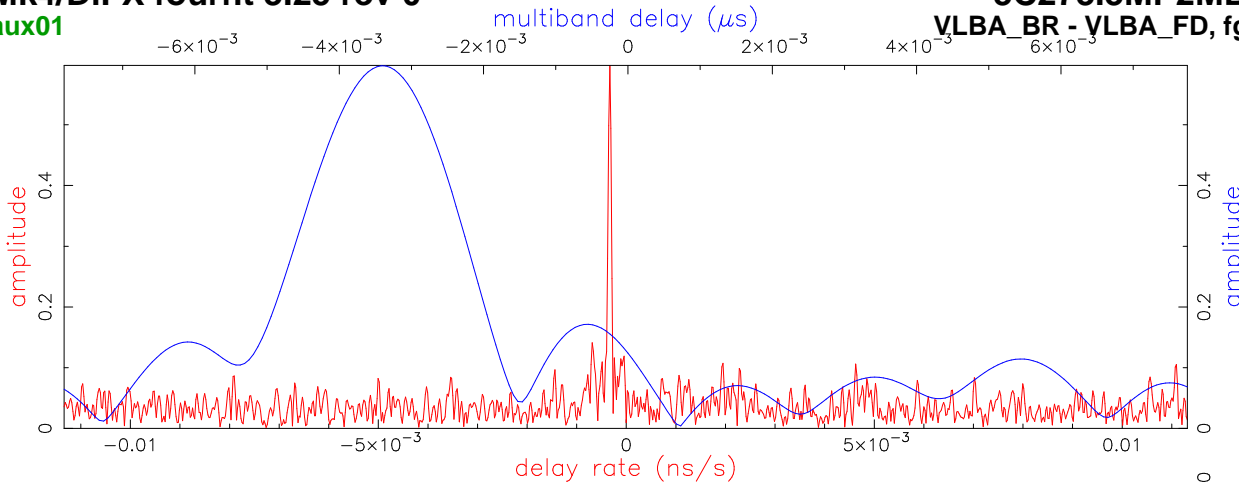
aux01

3C273.3MP2MB, No0707, bf

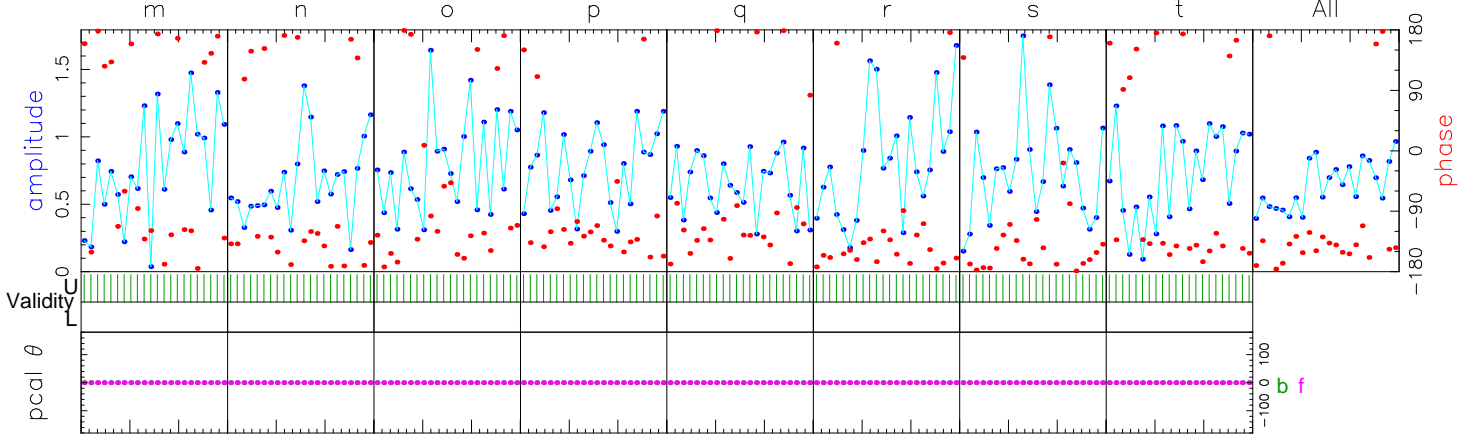
VLBA_BR - VLBA_FD, fgroup W, pol RR

Fringe quality 9

SNR 21.9
 Int time 179.964
 Amp 0.598
 Phase -148.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.004248
 MBD -0.003402
 Fringe rate (Hz)
 -0.028547
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175911
 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
	-164.6	-156.2	-135.3	-136.7	-129.6	-153.3	-152.9	-157.2	Phase	-148.6
	0.6	0.6	0.6	0.6	0.5	0.8	0.6	0.6	Ampl.	0.6
	255.4	256.5	256.2	256.0	255.6	255.8	255.7	256.3	Sbd box	255.9
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	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.58026645560E+03	Apriori delay (usec)	-5.58026305383E+03	Resid mbdelay (usec)	-3.40178E-03	+/-	4.9E-05
Sband delay (usec)	-5.58026730208E+03	Apriori clock (usec)	4.5655746E+00	Resid sbdelay (usec)	-4.24825E-03	+/-	3.9E-04
Phase delay (usec)	-5.58026305862E+03	Apriori clockrate (us/s)	5.2622099E-07	Resid phdelay (usec)	-4.79172E-06	+/-	1.7E-07
Delay rate (us/s)	1.31167181491E-01	Apriori rate (us/s)	1.31167512897E-01	Resid rate (us/s)	-3.31407E-07	+/-	1.6E-09
Total phase (deg)	-313.0	Apriori accel (us/s/s)	3.05839080410E-05	Resid phase (deg)	-148.6	+/-	5.2

ph/seg (deg)	22.2	Theor.	12.3	Amplitude	0.598 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	29.9		21.4	Search (1024X32)	0.594	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	13.6		7.4	Inc. seg. avg.	0.628	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	11.8		12.9	Inc. frq. avg.	0.605	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

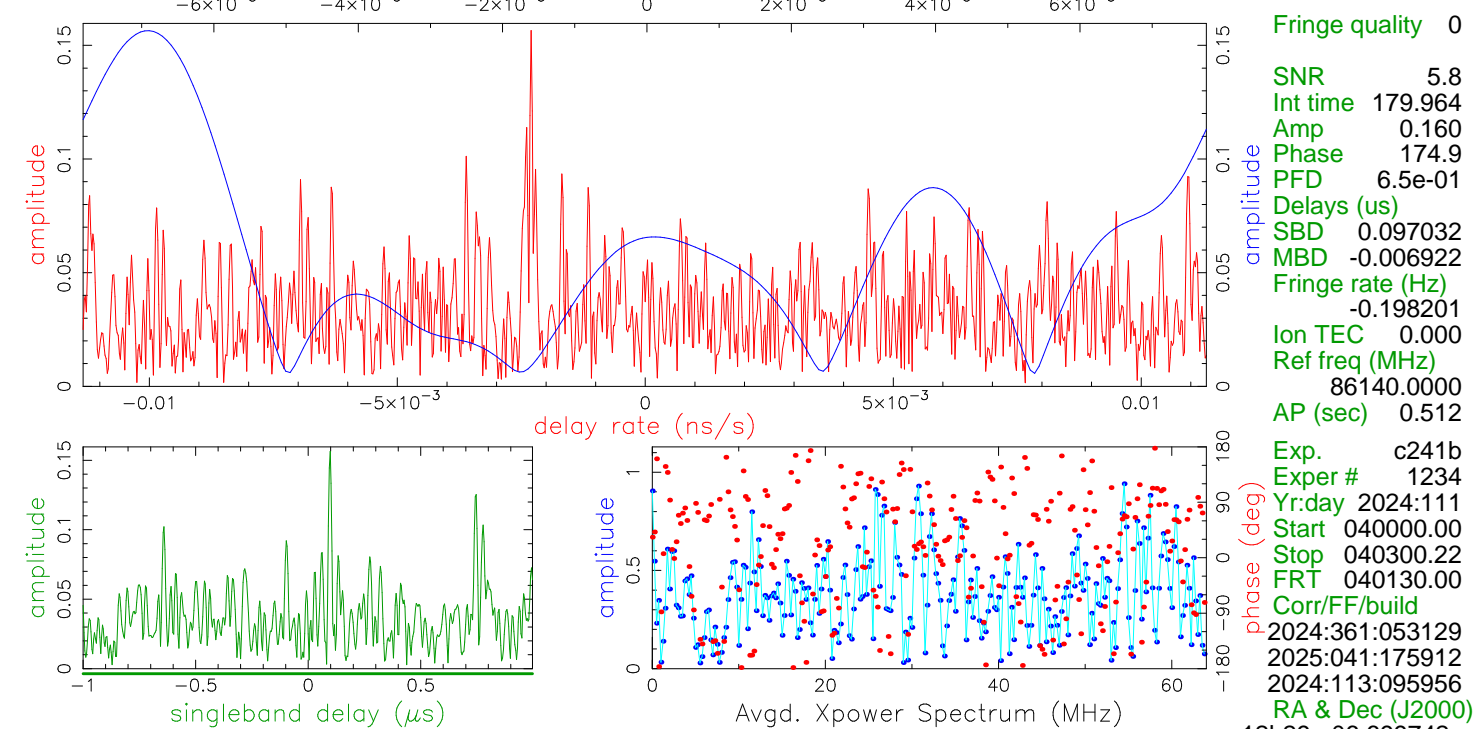
b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.33.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bf

VLBA_BR - VLBA_FD, fgroup W, pol LR

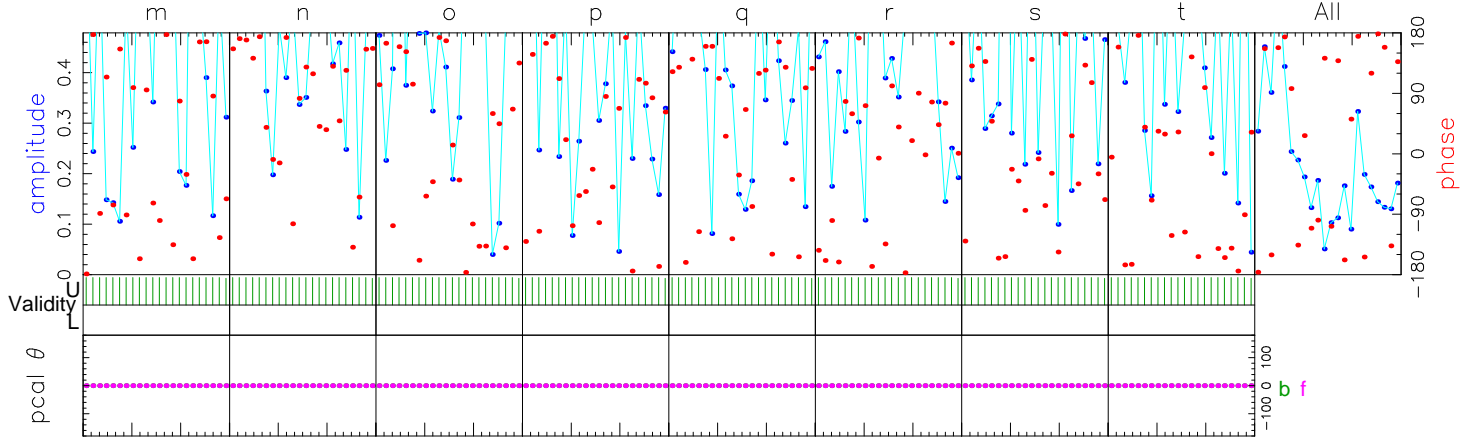


Fringe quality 0

SNR 5.8
 Int time 179.964
 Amp 0.160
 Phase 174.9
 PFD 6.5e-01
 Delays (us)
 SBD 0.097032
 MBD -0.006922
 Fringe rate (Hz)
 -0.198201
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175912
 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
	-148.3	143.1	-178.4	167.3	154.9	97.8	-153.2	-149.7	Phase	174.9
	0.3	0.3	0.2	0.1	0.3	0.1	0.1	0.1	Ampl.	0.2
	354.9	340.1	100.6	188.7	281.9	167.2	67.0	490.1	Sbd box	281.8
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	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -5.58016060068E+03 Apriori delay (usec) -5.58026305383E+03 Resid mbdelay (usec) -6.92185E-03 +/- 1.9E-04
 Sband delay (usec) -5.58016602208E+03 Apriori clock (usec) 4.5655746E+00 Resid sbdelay (usec) 9.70317E-02 +/- 1.5E-03
 Phase delay (usec) -5.58026304819E+03 Apriori clockrate (us/s) 5.2622099E-07 Resid phdelay (usec) 5.63861E-06 +/- 6.4E-07
 Delay rate (us/s) 1.31165211982E-01 Apriori rate (us/s) 1.31167512897E-01 Resid rate (us/s) -2.30091E-06 +/- 6.2E-09
 Total phase (deg) 10.4 Apriori accel (us/s/s) 3.05839080410E-05 Resid phase (deg) 174.9 +/- 19.9

ph/seg (deg) 59.4 46.7 Amplitude 0.160 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 94.3 81.5 Search (1024X32) 0.154 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.0 28.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.7 49.1 Inc. seg. avg. 0.171 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.42.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

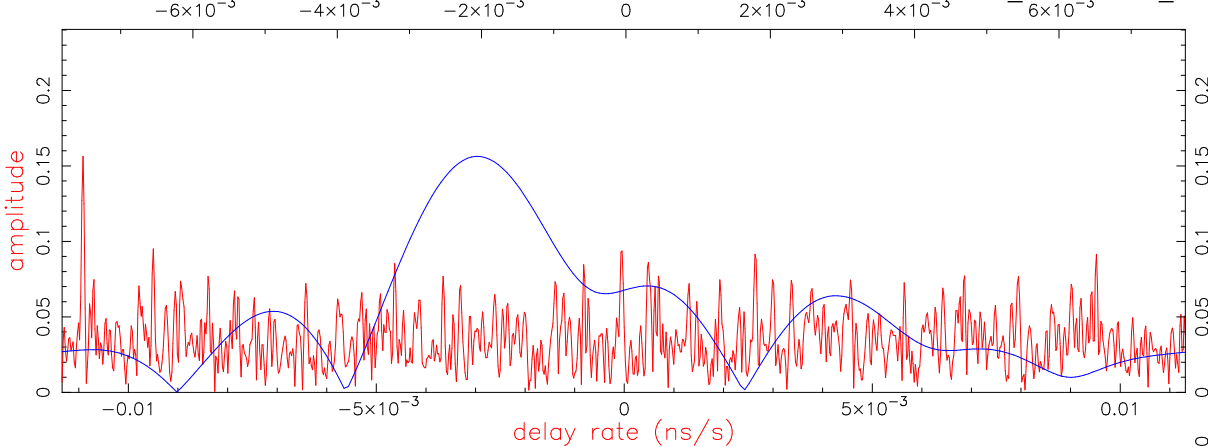
aux01

3C273.3MP2MB, No0707, bf

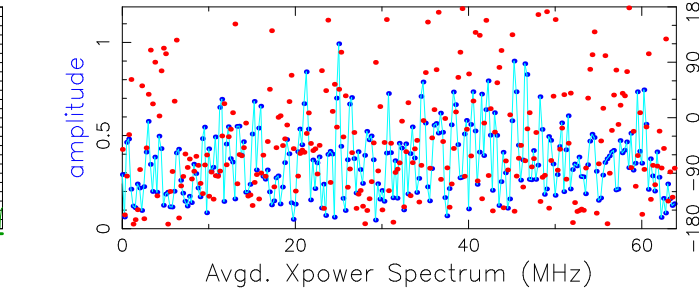
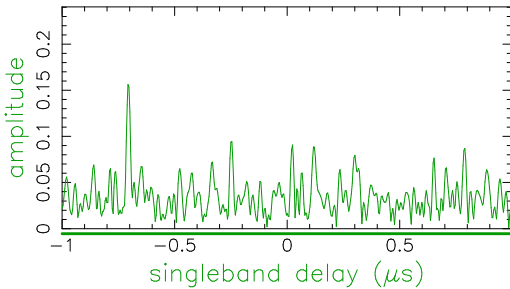
VLBA_BR - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

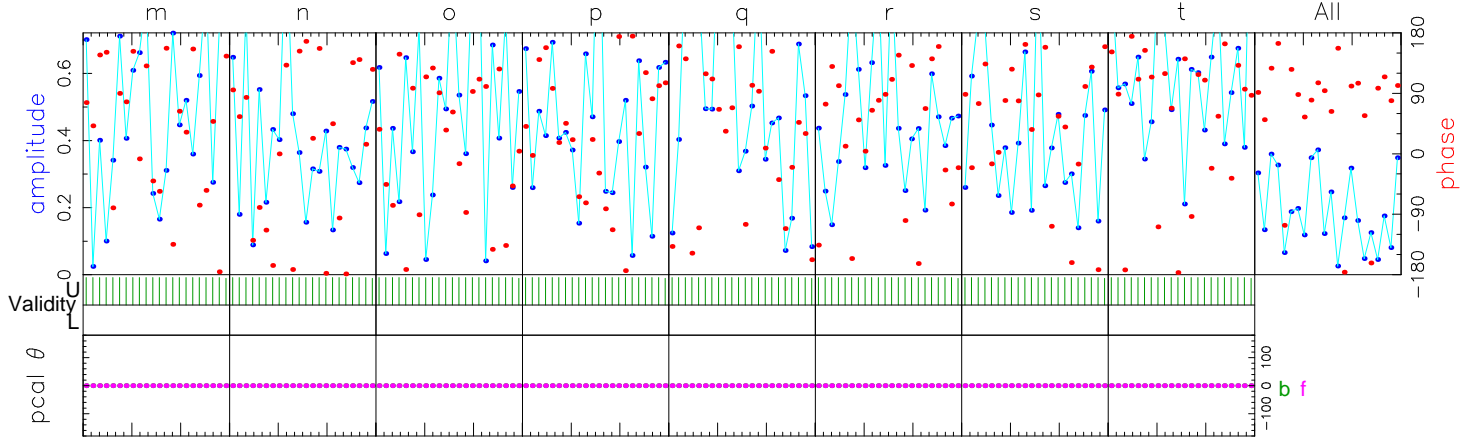


SNR 5.8
 Int time 179.964
 Amp 0.240
 Phase 106.2
 PFD 5.4e-01
 Delays (us)
 SBD -0.705478
 MBD -0.002053
 Fringe rate (Hz)
 -0.942257
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175914
 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
	121.9	137.1	92.3	52.8	97.1	104.7	97.1	124.5	Phase	106.2
	0.2	0.2	0.1	0.2	0.3	0.2	0.3	0.4	Ampl.	0.2
	290.1	423.7	36.5	322.6	139.5	499.9	320.1	75.6	Sbd box	76.4
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	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-5.58096823210E+03		Apriori delay (usec)		-5.58026305383E+03		Resid mbdelay (usec)		-2.05328E-03	+/- 1.9E-04
Sband delay (usec)	-5.58096853158E+03		Apriori clock (usec)		4.5655746E+00		Resid sbdelay (usec)		-7.05478E-01	+/- 1.5E-03
Phase delay (usec)	-5.58026305040E+03		Apriori clockrate (us/s)		5.2622099E-07		Resid phdelay (usec)		3.42571E-06	+/- 6.4E-07
Delay rate (us/s)	1.31156574223E-01		Apriori rate (us/s)		1.31167512897E-01		Resid rate (us/s)		-1.09387E-05	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		3.05839080410E-05		Resid phase (deg)		106.2	+/- 19.7

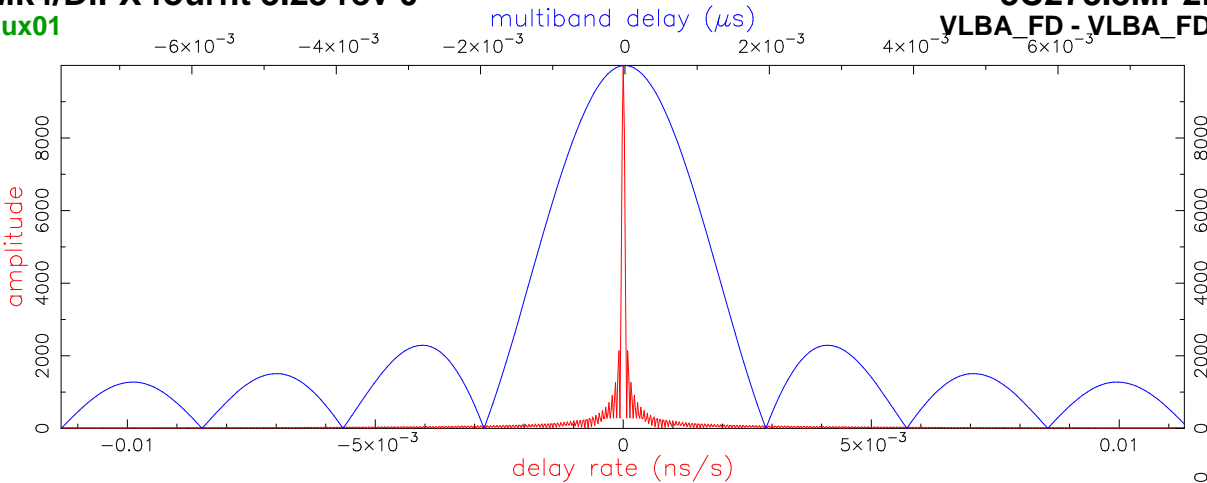
ph/seg (deg) 50.1 46.3 Amplitude 0.240 +/- 0.041 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.4 80.7 Search (1024X32) 0.154 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.1 27.9 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.7 48.7 Inc. frq. avg. 0.230 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.49.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

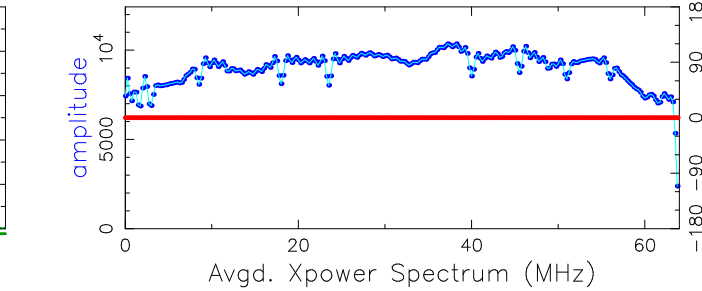
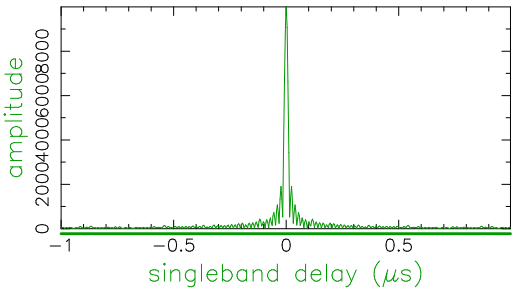
3C273.3MP2MB, No0707, ff

VLBA_FD - VLBA_FD, fgroup W, pol LL



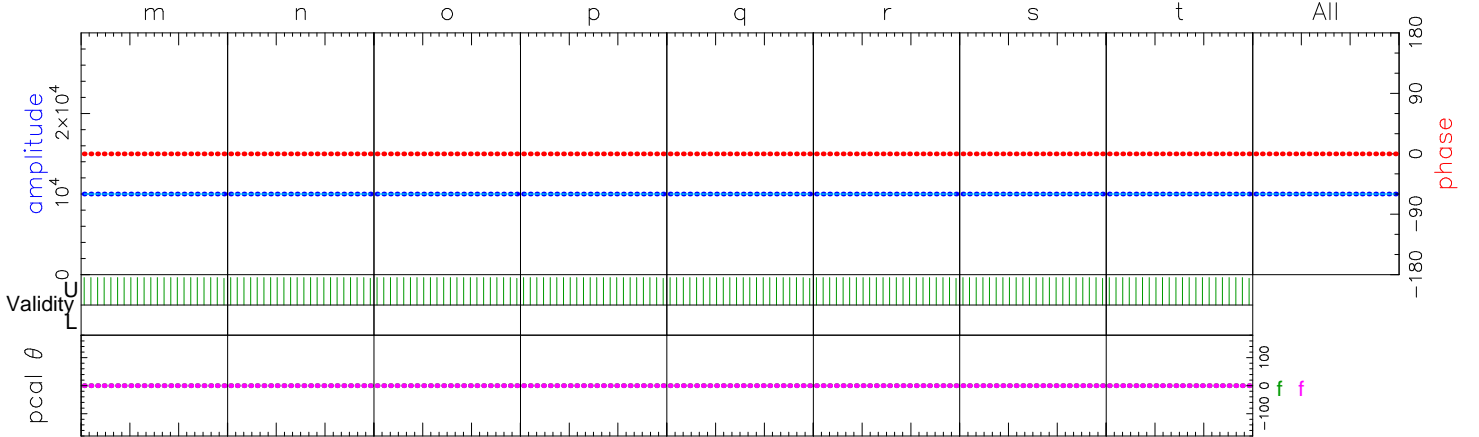
Fringe quality 9

SNR 366870.7
 Int time 179.983
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175922
 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		
f	0	0	0	0	0	0	0	0	Ampl.	10000.0
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

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

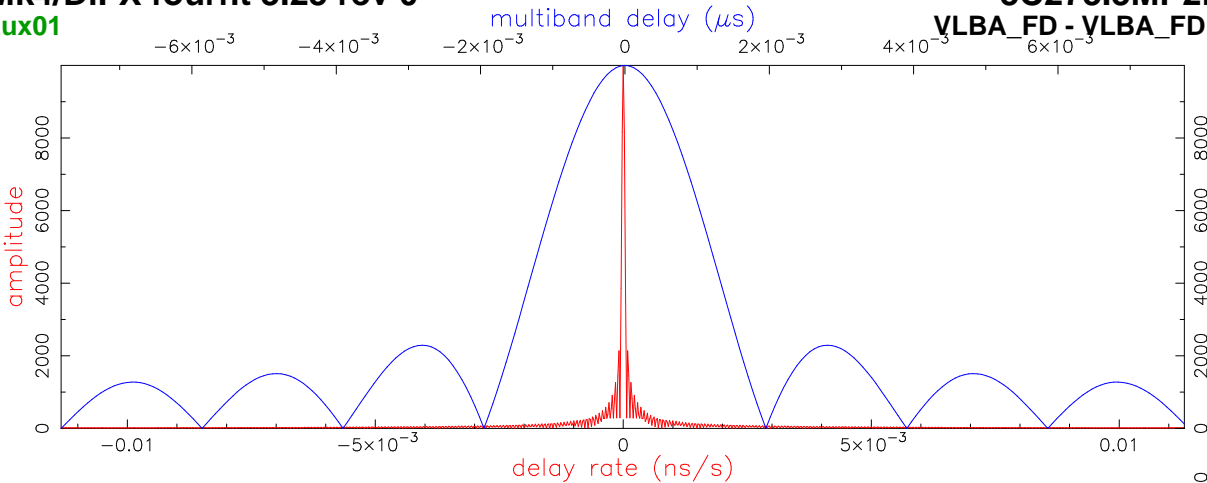
RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 138.7 el 54.1 pa -34.5 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/ff..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/ff.W.72.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

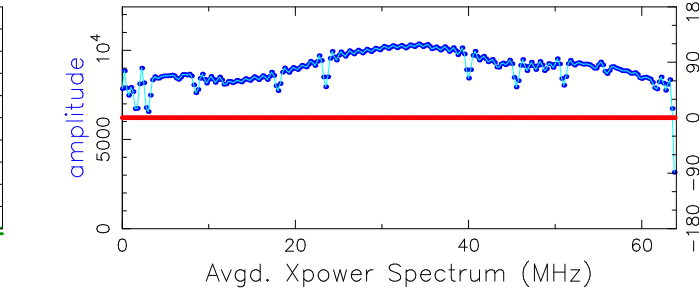
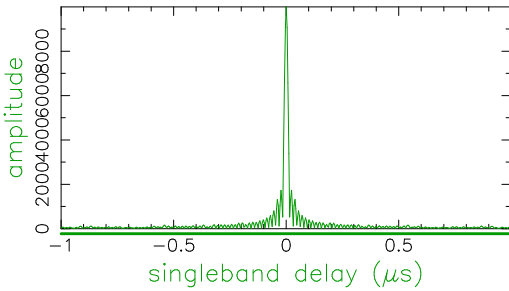
3C273.3MP2MB, No0707, ff

VLBA_FD - VLBA_FD, fgroup W, pol RR



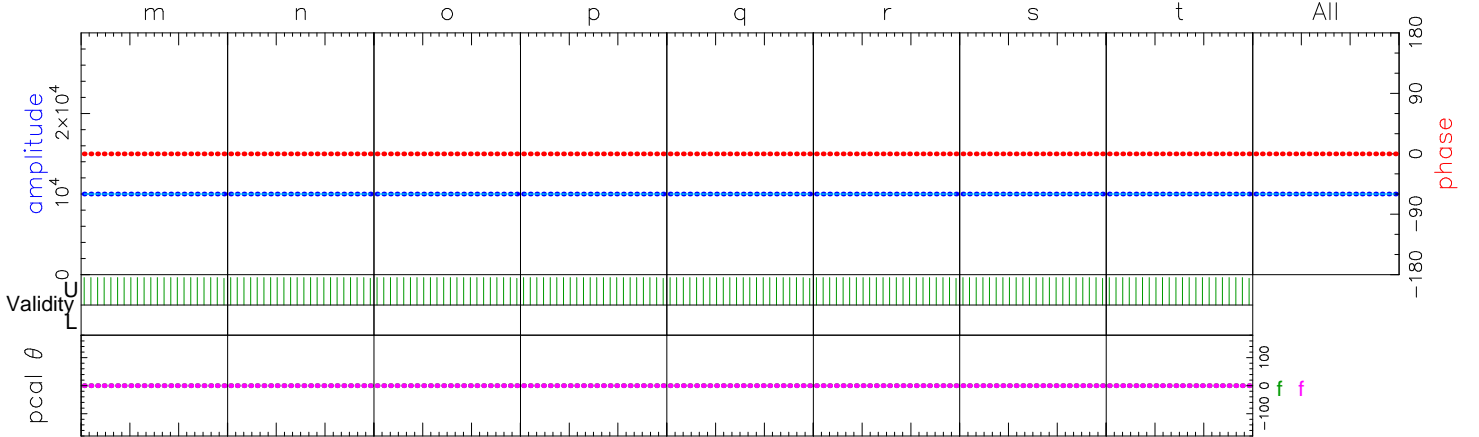
Fringe quality 9

SNR 366870.7
 Int time 179.983
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175923
 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		
f	0	0	0	0	0	0	0	0	Ampl.	10000.0
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC phase	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 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

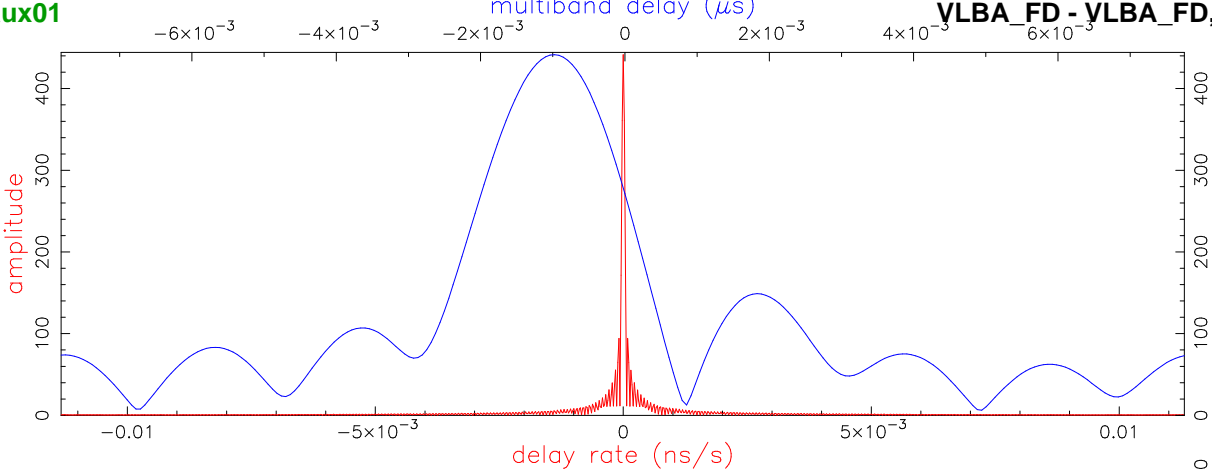
RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 138.7 el 54.1 pa -34.5 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//ff..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//ff.W.82.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

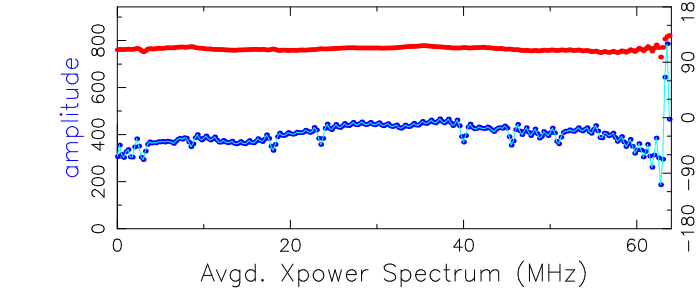
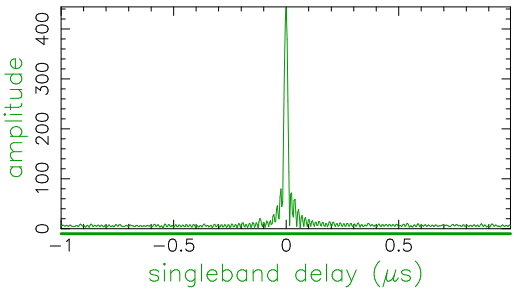
3C273.3MP2MB, No0707, ff

VLBA_FD - VLBA_FD, fgroup W, pol LR



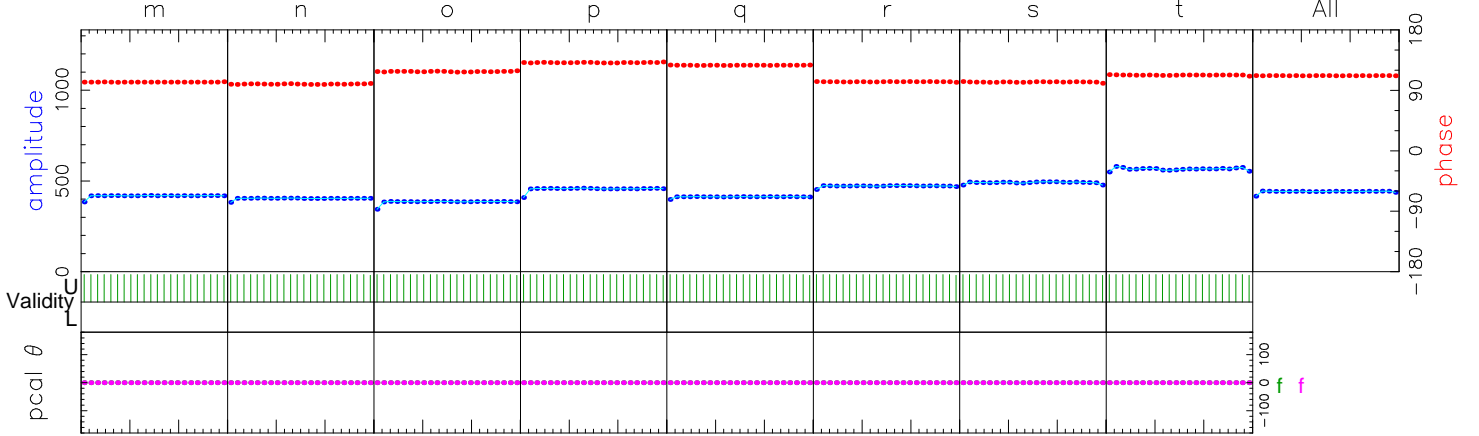
Fringe quality 8

SNR 16300.2
 Int time 179.983
 Amp 444.303
 Phase 111.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.001003
 MBD -0.000993
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175925
 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		
f	0	0	0	0	0	0	0	0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec) (SBD)	-9.92812500000E-04									
Sband delay (usec)	-1.00325000000E-03									
Phase delay (usec)	3.60303742501E-06									
Delay rate (us/s)	-9.91980667418E-12									
Total phase (deg)			111.7							
Apriori delay (usec)					0.00000000000E+00					
Apriori clock (usec)					0.0000000E+00					
Apriori clockrate (us/s)					0.0000000E+00					
Apriori rate (us/s)					0.00000000000E+00					
Apriori accel (us/s/s)					0.00000000000E+00					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Data rate (MSamp/s):	128 MBpts	32 Amb	0.016 us							
Data rate (Mb/s):	2048									
nlags:	256	t_cohere	infinite							
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
simultaneous interpolator										

ph/seg (deg) 0.1 0.0 Search (1024X32) 441.510 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.4 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) 13.4 0.0 Inc. seg. avg. 441.487 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.6 0.0 Inc. frq. avg. 450.407 Data rate (MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 f: az 138.7 el 54.1 pa -34.5 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/No0707//ff..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//ff.W.92.3MP2MB

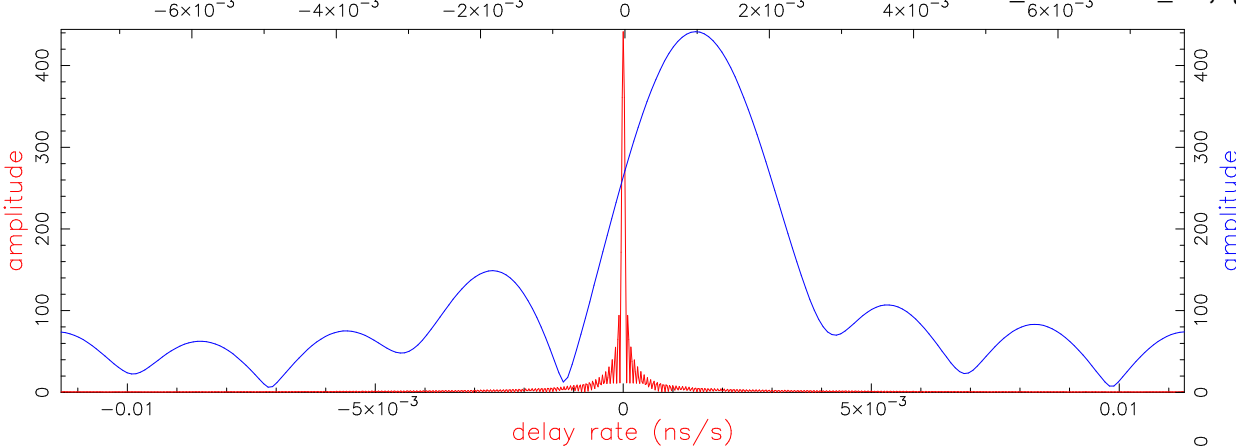
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, ff

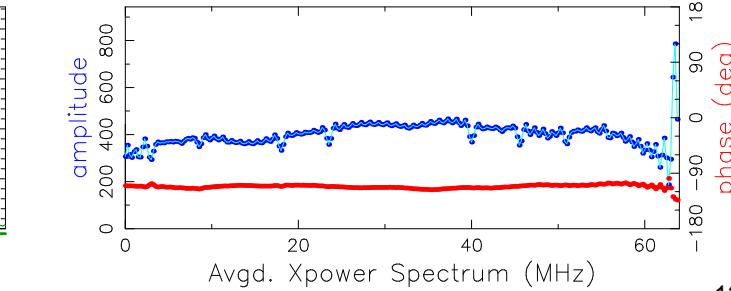
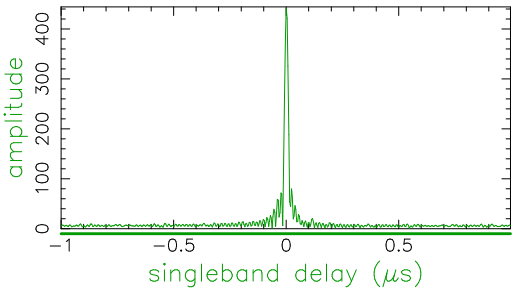
VLBA_FD - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)



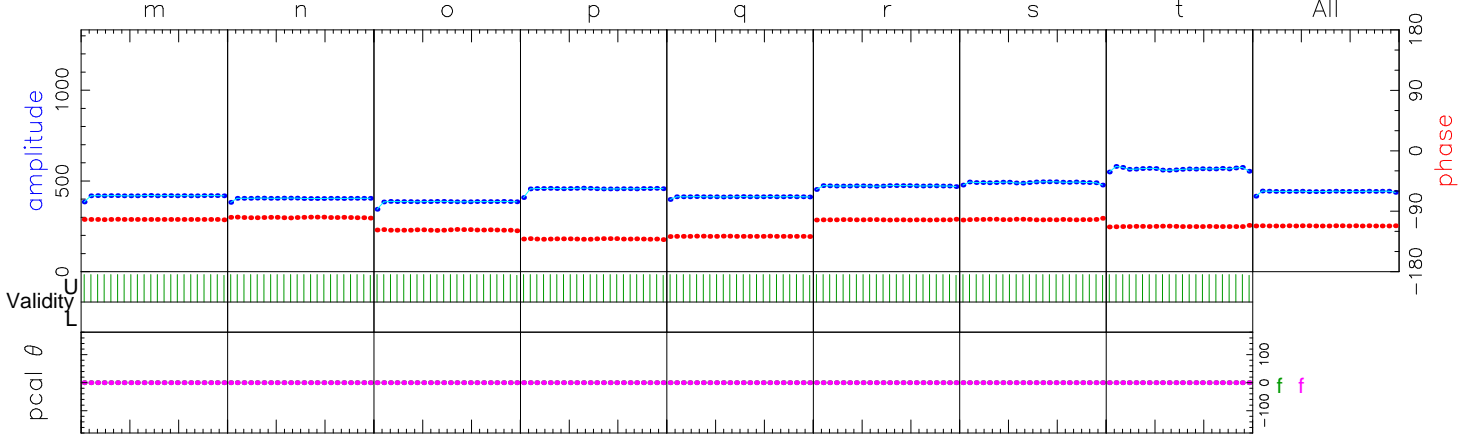
Fringe quality 8

SNR 16300.2
 Int time 179.983
 Amp 444.303
 Phase -111.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.001003
 MBD 0.000993
 Fringe rate (Hz)
 0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175928
 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
	-102.2	-99.3	-117.9	-131.2	-127.3	-102.7	-102.3	-112.5	Phase	-111.7
	417.4	403.6	384.6	455.7	412.6	472.0	491.2	566.1	Ampl.	450.4
	257.1	257.5	257.0	257.5	257.3	257.4	257.3	257.0	Sbd box	257.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD)	9.928125000000E-04	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	9.92812E-04	+/-	6.7E-08
Sband delay (usec)	1.003250000000E-03	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	1.00325E-03	+/-	5.3E-07
Phase delay (usec)	-3.60303742498E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-3.60304E-06	+/-	2.3E-10
Delay rate (us/s)	9.91980667418E-12	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	9.91981E-12	+/-	2.2E-12
Total phase (deg)	-111.7	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-111.7	+/-	0.0

ph/seg (deg)	0.1	0.0	Search (1024X32)	441.510	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	1.4	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)	13.4	0.0	Inc. seg. avg.	441.487	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	12.6	0.0	Inc. frq. avg.	450.407	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011

f: az 138.7 el 54.1 pa -34.5 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/ff..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/ff.W.99.3MP2MB

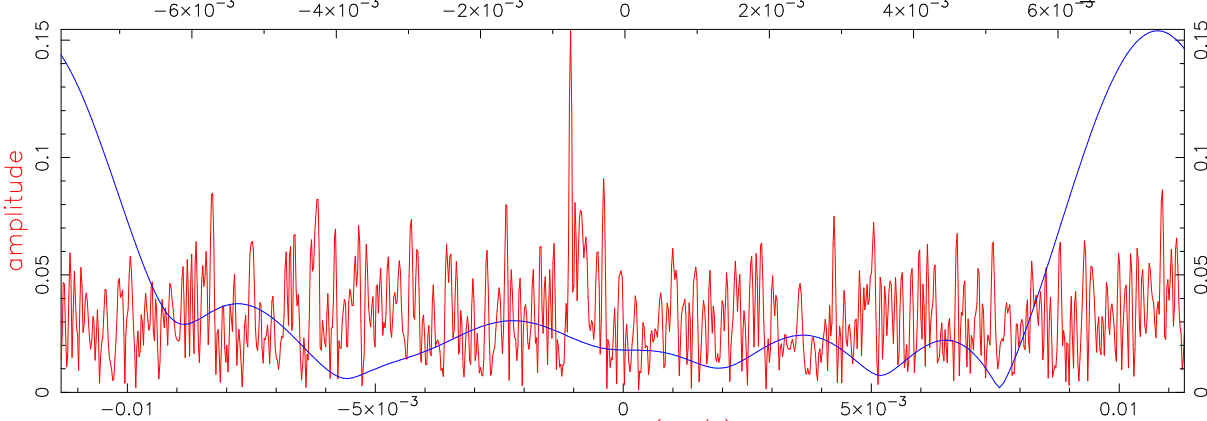
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fg

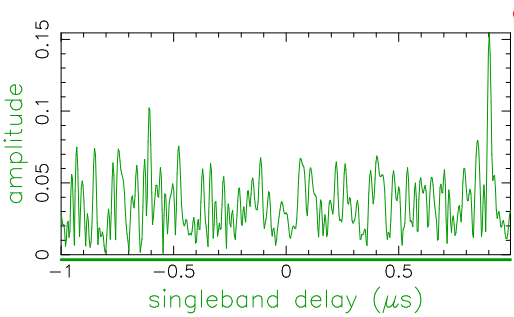
VLBA_FD - GLT, fgroup W, pol RL

multiband delay (μ s)

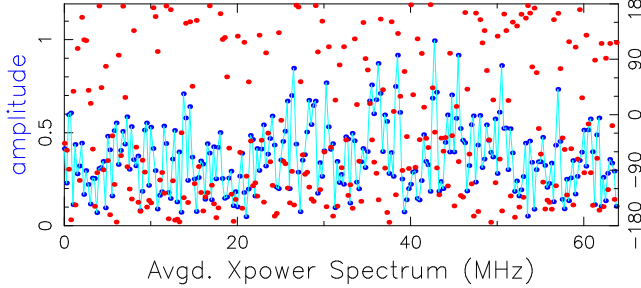


Fringe quality 0

SNR 5.6
 Int time 179.981
 Amp 0.155
 Phase 94.2
 PFD 8.6e-01
 Delays (us)
 SBD 0.902185
 MBD 0.007372
 Fringe rate (Hz)
 -0.092032
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

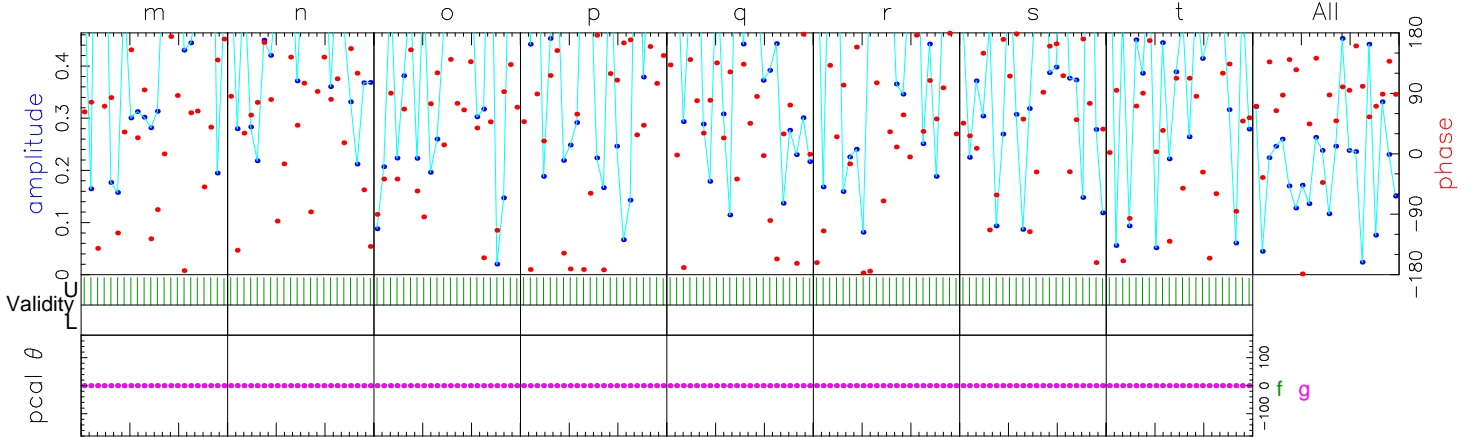


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175929
 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		
f	0	0	0	0	0	0	0	0	Ampl.	0.1
g	0	0	0	0	0	0	0	0	Sbd box	488.0
f:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
g	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
									Tracks	

Group delay (usec) (SBD)	1.17599276270E+04	Apriori delay (usec)	1.17590296299E+04	Resid mbdelay (usec)	7.37209E-03	+/-	1.9E-04
Sband delay (usec)	1.17599318149E+04	Apriori clock (usec)	-2.8049278E-01	Resid sbdelay (usec)	9.02185E-01	+/-	1.5E-03
Phase delay (usec)	1.17590296329E+04	Apriori clockrate (us/s)	-7.3410202E-07	Resid phdelay (usec)	3.03705E-06	+/-	6.5E-07
Delay rate (us/s)	5.89952144628E-01	Apriori rate (us/s)	5.89953213032E-01	Resid rate (us/s)	-1.06840E-06	+/-	6.3E-09
Total phase (deg)	209.2	Apriori accel (us/s/s)	-6.42790943039E-05	Resid phase (deg)	94.2	+/-	20.3

ph/seg (deg)	54.3	Theor.	47.6	Amplitude	0.155 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.0		83.0	Search (1024X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	14.1		28.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	25.0		50.1	Inc. seg. avg.	0.161	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.141	Data rate(Mb/s): 2048	t_cohere infinite			

f: az 138.7 el 54.1 pa -34.5 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -3414.605 -4273.477 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fg.W.108.3MP2MB

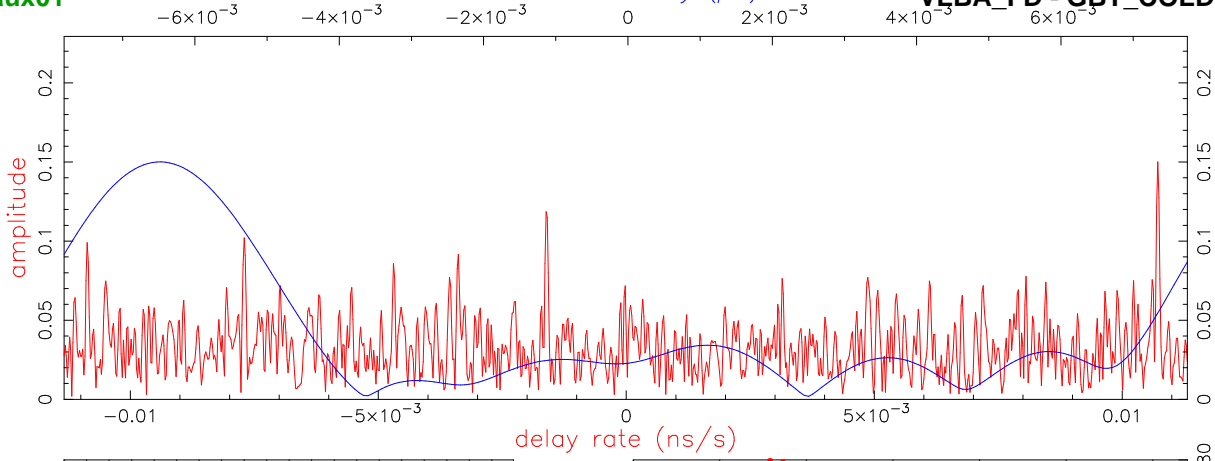
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fG

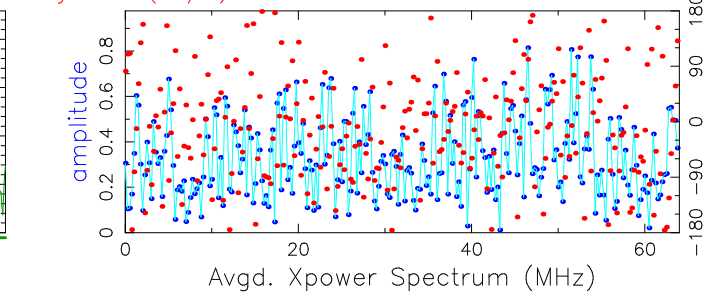
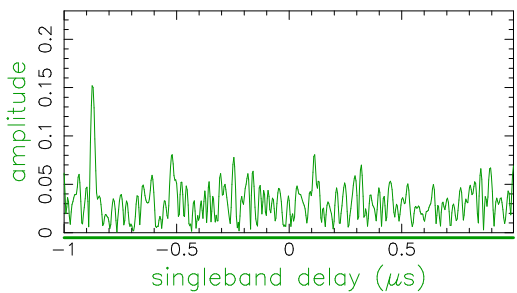
VLBA_FD - GBT_COLD, fgroup W, pol LL

multiband delay (μ s)



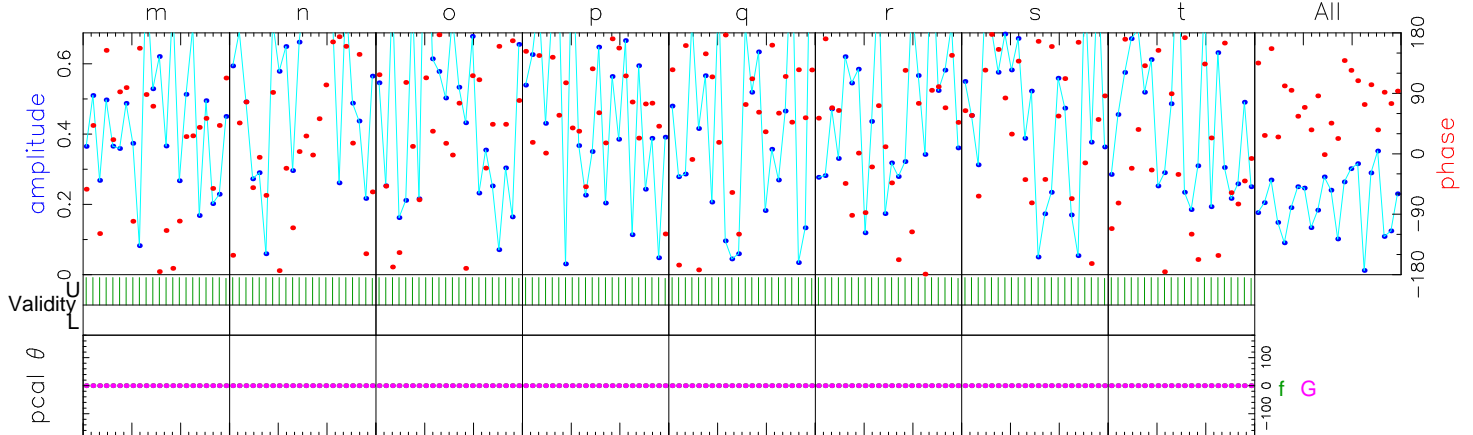
Fringe quality 0

SNR 5.6
 Int time 179.983
 Amp 0.229
 Phase 79.9
 PFD 8.8e-01
 Delays (us)
 SBD -0.873372
 MBD -0.006516
 Fringe rate (Hz) 0.924605
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175921
 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
	81.7	60.3	84.0	82.9	93.1	71.4	81.1	-79.7	Phase	79.9
	0.2	0.2	0.3	0.3	0.4	0.2	0.3	0.1	Ampl.	0.2
	382.9	135.0	128.1	33.1	33.7	476.4	242.3	315.4	Sbd box	33.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.92713868382E+02	Apriori delay (usec)	1.93579759833E+02	Resid mbdelay (usec)	-6.51645E-03	+/-	1.9E-04
Sband delay (usec)	1.92706388083E+02	Apriori clock (usec)	1.4682239E+01	Resid sbdelay (usec)	-8.73372E-01	+/-	1.5E-03
Phase delay (usec)	1.93579762410E+02	Apriori clockrate (us/s)	-2.0163125E-08	Resid phdelay (usec)	2.57731E-06	+/-	6.6E-07
Delay rate (us/s)	5.45177644521E-01	Apriori rate (us/s)	5.45166910777E-01	Resid rate (us/s)	1.07337E-05	+/-	6.3E-09
Total phase (deg)	264.3	Apriori accel (us/s/s)	-1.37333077631E-06	Resid phase (deg)	79.9	+/-	20.3

ph/seg (deg) 41.7 47.7 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.1 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) 66.0 28.7 Inc. seg. avg. 0.228 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.5 50.2 Inc. frq. avg. 0.214 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 G: az 182.2 el 53.5 pa 2.1 u,v (fr/asec) -3124.925 -993.120 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fG.W.70.3MP2MB

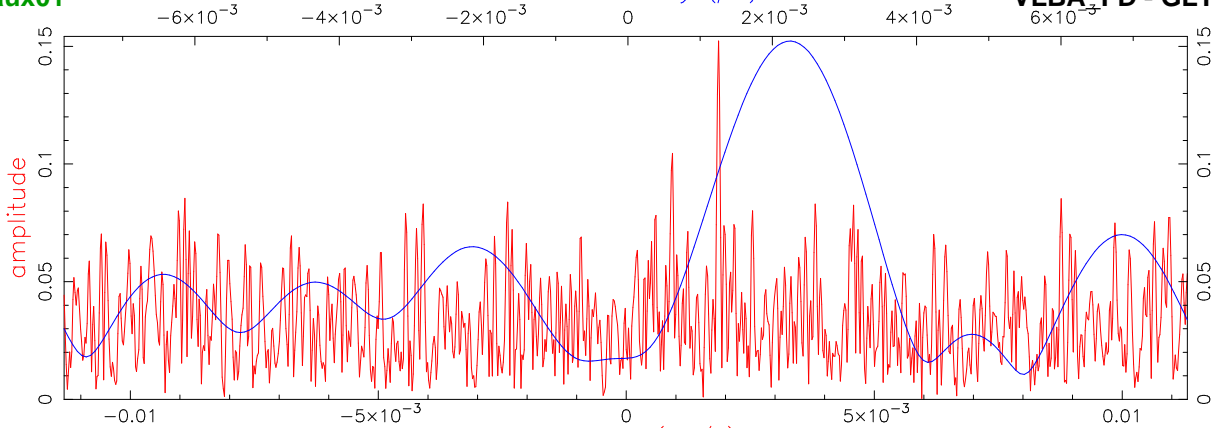
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fg

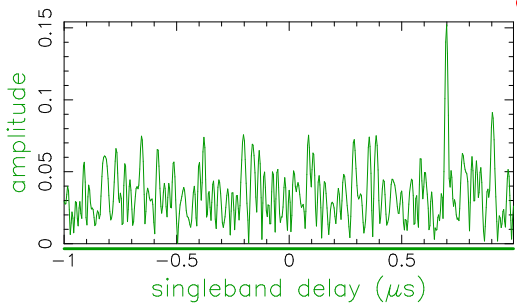
VLBA_FD - GLT, fgroup W, pol LL

multiband delay (μ s)

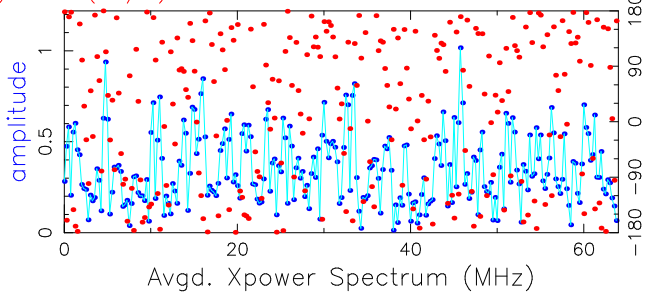


Fringe quality 0

SNR 5.6
 Int time 179.981
 Amp 0.154
 Phase -105.6
 PFD 9.3e-01
 Delays (us)
 SBD 0.698719
 MBD 0.002256
 Fringe rate (Hz)
 0.161357
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

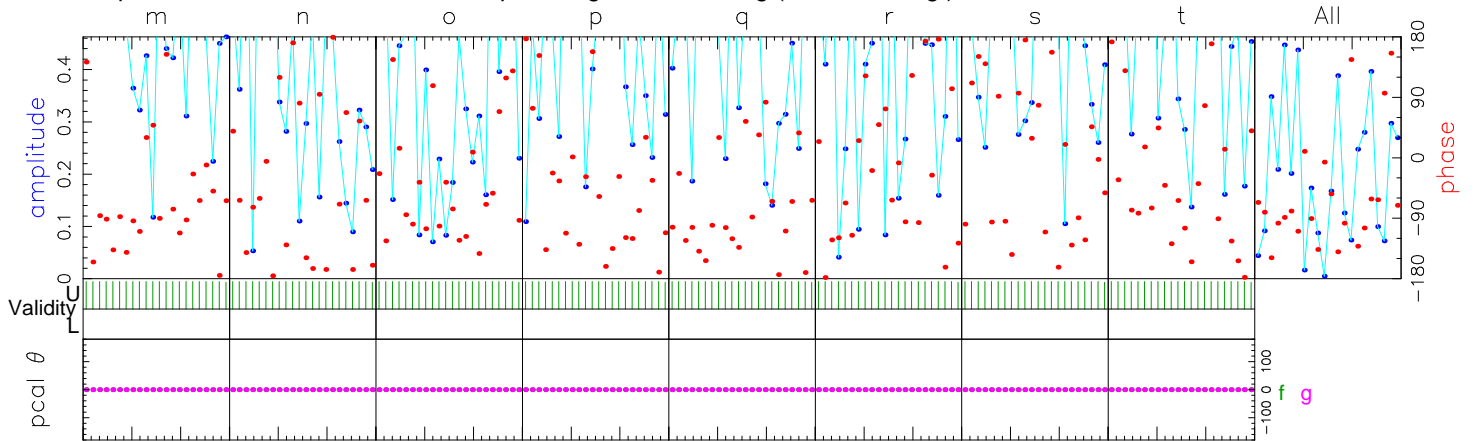


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175922
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	-94.8	-143.5	-90.3	-108.5	-99.2	-125.4	-147.0	-82.6	Phase	-105.6		
	0.3	0.1	0.1	0.2	0.2	0.0	0.1	0.2	Ampl.	0.1		
	401.4	332.5	464.1	506.9	413.8	365.9	87.1	487.7	Sbd box	435.9		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used			
f	0	0	0	0	0	0	0	0	PC freqs			
g	0	0	0	0	0	0	0	0	PC freqs			
f:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC			
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
g	1000	1000	1000	1000	1000	1000	1000	1000				
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks			
									Tracks			
Group delay (usec) (SBD)	1.17597350108E+04		Apriori delay (usec)		1.17590296299E+04		Resid mbdelay (usec)		2.25588E-03	+/- 1.9E-04		
Sband delay (usec)	1.17597283491E+04		Apriori clock (usec)		-2.8049278E-01		Resid sbdelay (usec)		6.98719E-01	+/- 1.5E-03		
Phase delay (usec)	1.17590296265E+04		Apriori clockrate (us/s)		-7.3410202E-07		Resid phdelay (usec)		-3.40430E-06	+/- 6.6E-07		
Delay rate (us/s)	5.89955086229E-01		Apriori rate (us/s)		5.89953213032E-01		Resid rate (us/s)		1.87320E-06	+/- 6.3E-09		
Total phase (deg)	9.4		Apriori accel (us/s/s)		-6.42790943039E-05		Resid phase (deg)		-105.6	+/- 20.5		
	RMS	Theor.	Amplitude	0.154 +/- 0.028		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	62.4	48.0	Search (1024X32)	0.146		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	95.2	83.8	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	27.3	29.0	Inc. seg. avg.	0.152		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	48.6	50.6	Inc. frq. avg.	0.146		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
f: az 138.7 el 54.1 pa -34.5	g: az 192.9 el 15.1 pa 3.0		u, v (fr/asec) -3414.605 -4273.477						simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0707//fg..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//fg.W.74.3MP2MB									

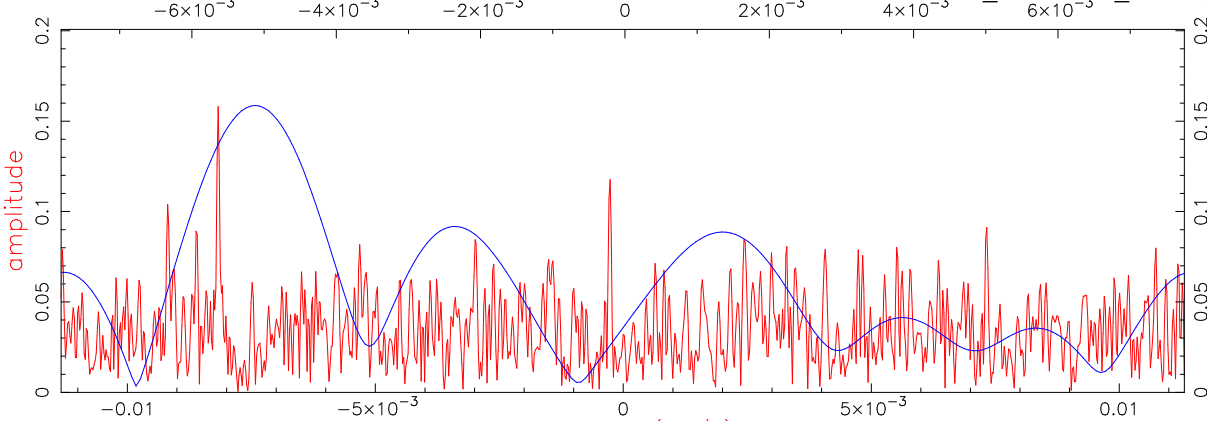
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fG

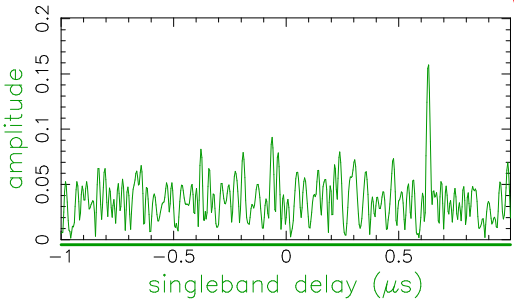
VLBA_FD - GBT_COLD, fgroup W, pol RR

multiband delay (μ s)

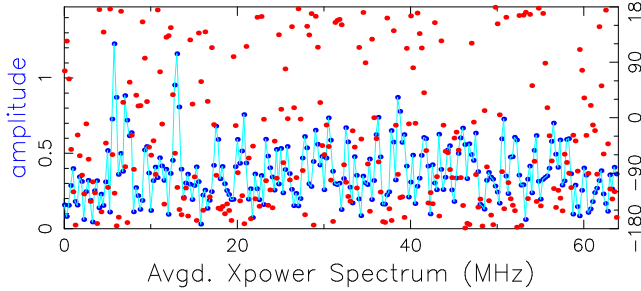


Fringe quality 0

SNR 5.9
Int time 179.983
Amp 0.201
Phase 4.9
PFD 3.9e-01
Delays (us)
SBD 0.631254
MBD -0.005206
Fringe rate (Hz)
-0.704494
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

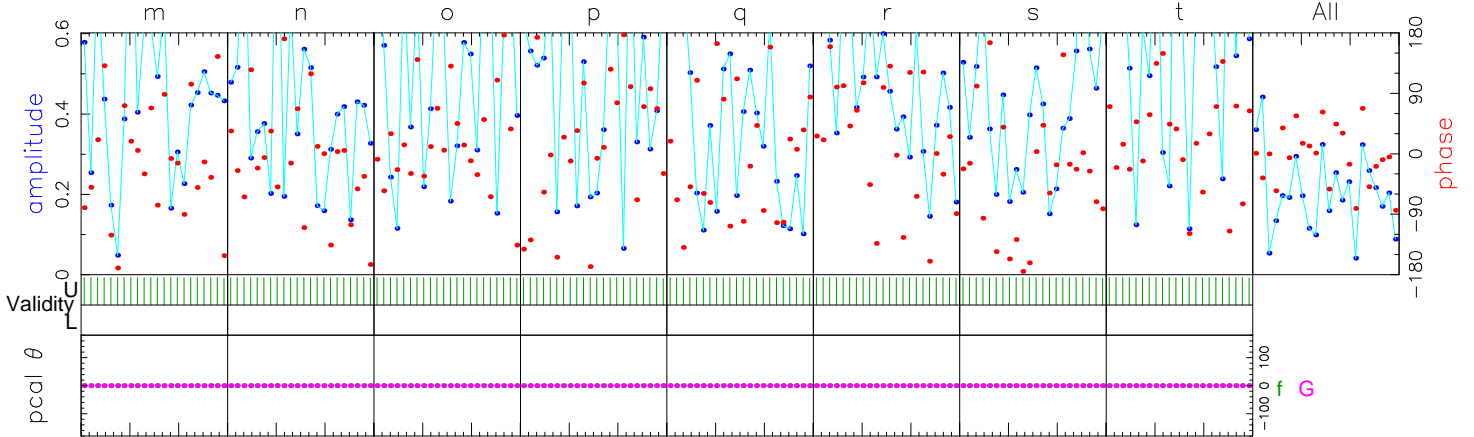


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175923
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		
f	0	0	0	0	0	0	0	0		
G	0	0	0	0	0	0	0	0		
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	1.94215178981E+02	Apriori delay (usec)	1.93579759833E+02	Resid mbdelay (usec)	-5.20585E-03	+/-	1.8E-04
Sband delay (usec)	1.94211013833E+02	Apriori clock (usec)	1.4682239E+01	Resid sbdelay (usec)	6.31254E-01	+/-	1.5E-03
Phase delay (usec)	1.93579759991E+02	Apriori clockrate (us/s)	-2.0163125E-08	Resid phdelay (usec)	1.57729E-07	+/-	6.3E-07
Delay rate (us/s)	5.45158732304E-01	Apriori rate (us/s)	5.45166910777E-01	Resid rate (us/s)	-8.17847E-06	+/-	6.0E-09
Total phase (deg)	189.2	Apriori accel (us/s/s)	-1.37333077631E-06	Resid phase (deg)	4.9	+/-	19.5

ph/seg (deg)	43.4	Theor.	45.7	Amplitude	0.201 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.0	Search (1024X32)	0.153	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	41.5	Inc. seg. avg.	0.196	Inc. frq. avg.	0.205	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	42.4	Inc. frq. avg.	0.205			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
f: az 138.7 el 54.1 pa -34.5		G: az 182.2 el 53.5 pa 2.1		u, v (fr/asec)	-3124.925 -993.120	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0707//fG..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//fG.W.81.3MP2MB		ion window (TEC)	0.00 0.00

simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

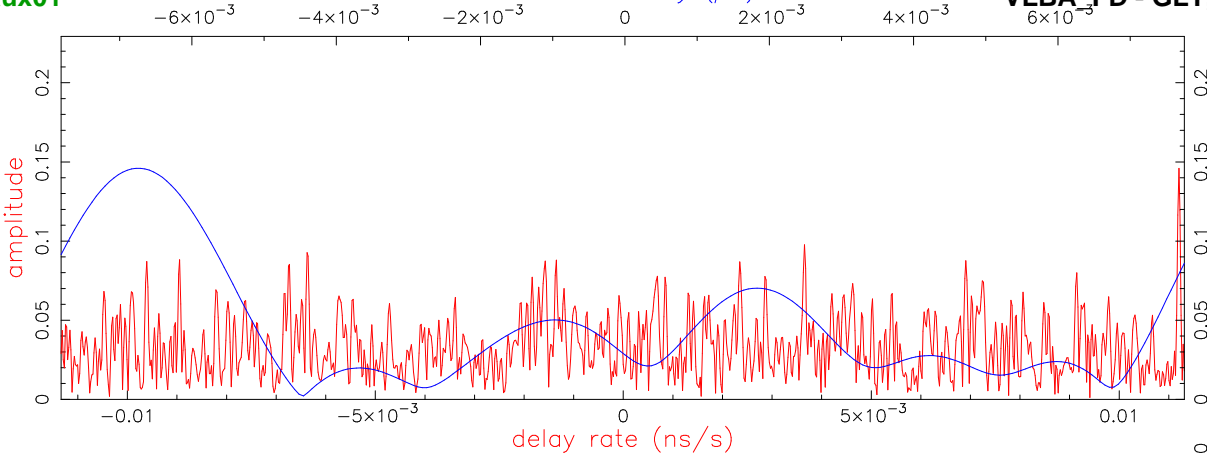
aux01

3C273.3MP2MB, No0707, fg

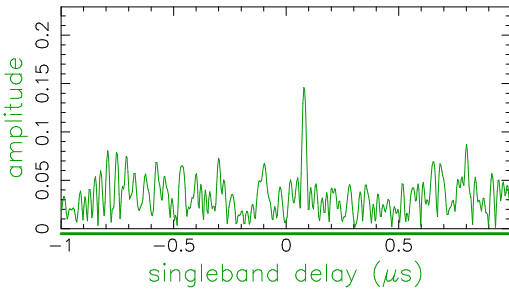
VLBA_FD - GLT, fgroup W, pol RR

multiband delay (μ s)

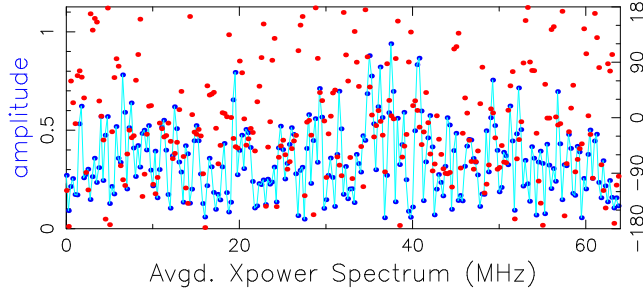
Fringe quality 0



SNR 5.4
 Int time 179.983
 Amp 0.229
 Phase -107.6
 PFD 1.0e+00
 Delays (us)
 SBD 0.079659
 MBD -0.006705
 Fringe rate (Hz)
 0.967118
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

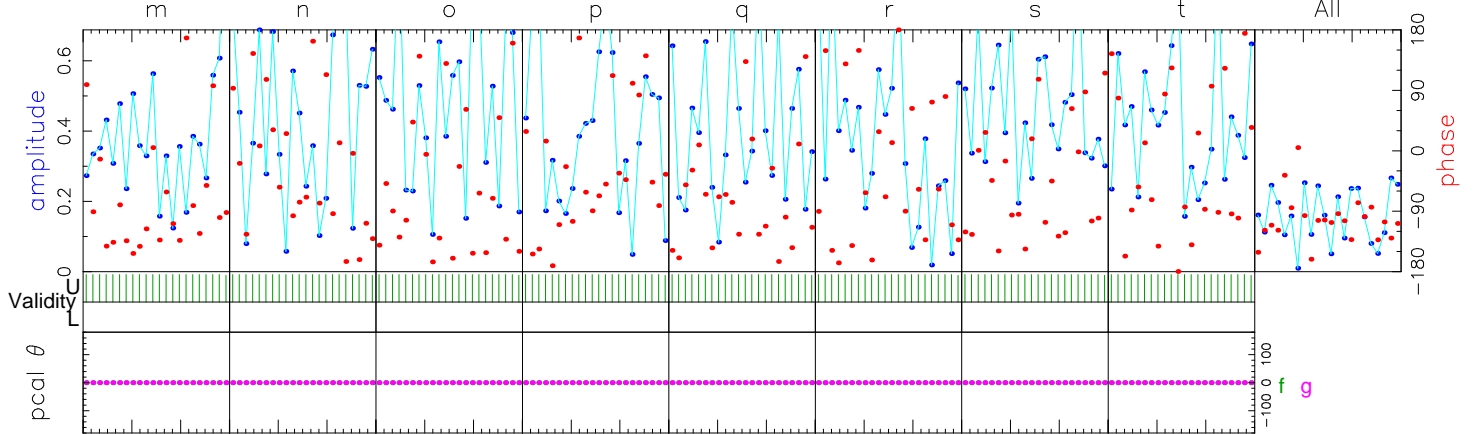


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175924
 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
	-104.4	-81.0	-124.6	-96.0	-98.9	-140.8	-71.7	-143.1	Phase	-107.6
	0.4	0.1	0.4	0.2	0.3	0.2	0.2	0.1	Ampl.	0.2
	386.9	109.4	491.3	65.4	223.0	383.6	455.1	2.1	Sbd box	277.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
f,g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	1.17591166751E+04	Apriori delay (usec)	1.17590296299E+04	Resid mbdelay (usec)	-6.70483E-03	+/-	2.0E-04
Sband delay (usec)	1.17591092894E+04	Apriori clock (usec)	-2.8049278E-01	Resid sbdelay (usec)	7.96595E-02	+/-	1.6E-03
Phase delay (usec)	1.17590296264E+04	Apriori clockrate (us/s)	-7.3410202E-07	Resid phdelay (usec)	-3.47035E-06	+/-	6.8E-07
Delay rate (us/s)	5.89964440311E-01	Apriori rate (us/s)	5.89953213032E-01	Resid rate (us/s)	1.12273E-05	+/-	6.6E-09
Total phase (deg)	7.4	Apriori accel (us/s/s)	-6.42790943039E-05	Resid phase (deg)	-107.6	+/-	21.2

ph/seg (deg)	RMS 35.0	Theor. 49.7	Amplitude Search (1024X32)	0.229 +/- 0.042	0.145	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	51.8	86.7	Interp.	0.000	0.145	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	28.5	30.0	Inc. seg. avg.	0.180	0.180	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	41.0	52.3	Inc. frq. avg.	0.215	0.215	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

f: az 138.7 el 54.1 pa -34.5 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -3414.605 -4273.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fg.W.84.3MP2MB

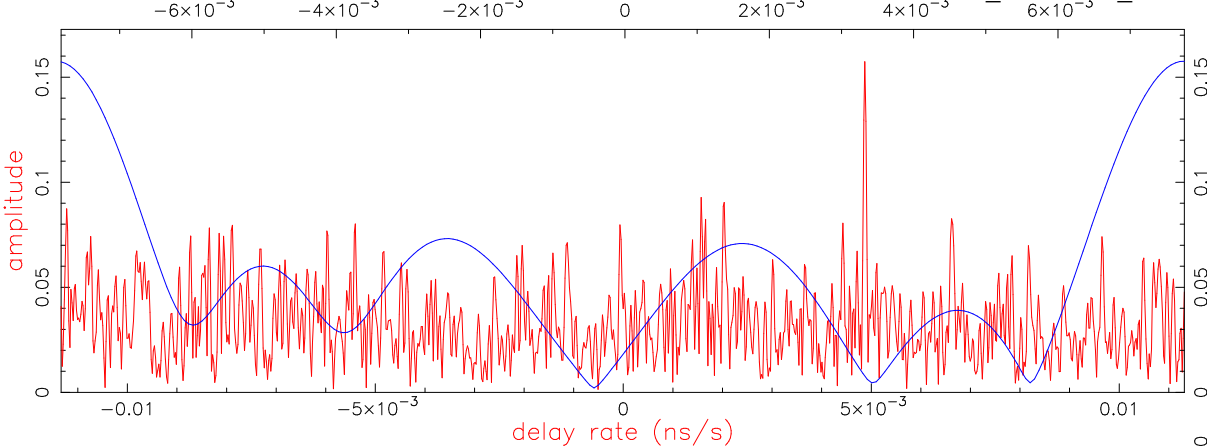
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fG

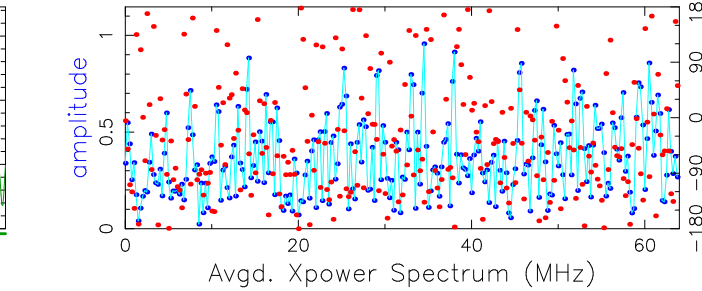
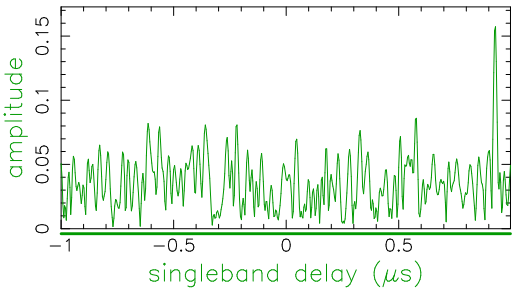
VLBA_FD - GBT_COLD, fgroup W, pol LR

multiband delay (μ s)



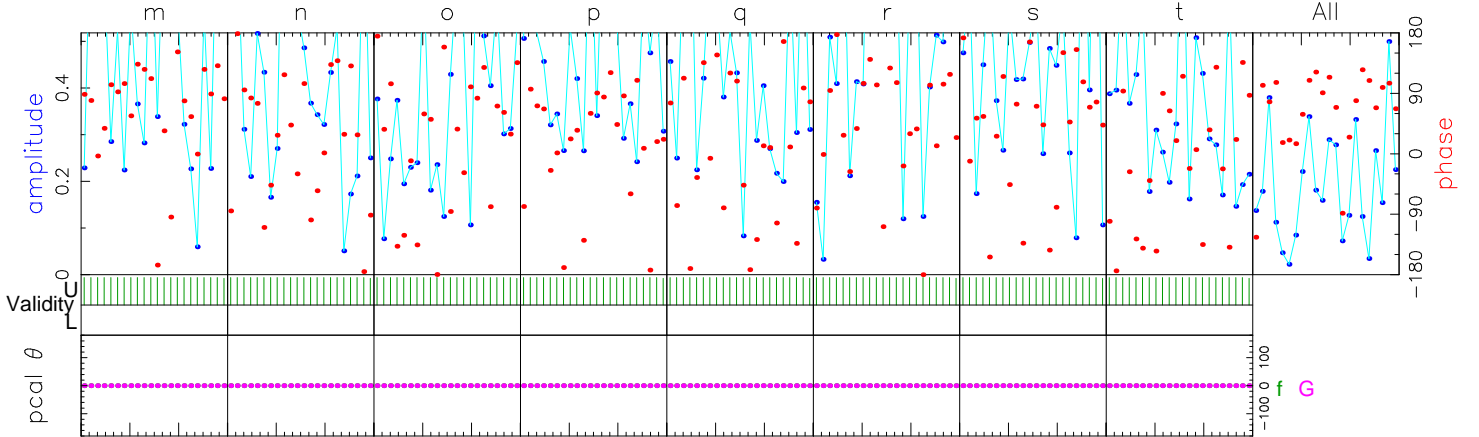
Fringe quality 0

SNR 5.9
 Int time 179.983
 Amp 0.173
 Phase 88.3
 PFD 4.3e-01
 Delays (us)
 SBD 0.928129
 MBD 0.007678
 Fringe rate (Hz) 0.419690
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175925
 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
	88.3	123.9	77.7	62.9	116.1	84.3	94.3	155.5	Phase	88.3
	0.3	0.1	0.1	0.3	0.1	0.3	0.2	0.0	Ampl.	0.2
	200.4	148.2	287.5	494.0	166.9	494.9	392.9	389.8	Sbd box	494.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.94509312381E+02	Apriori delay (usec)	1.93579759833E+02	Resid mbdelay (usec)	7.67755E-03	+/-	1.9E-04
Sband delay (usec)	1.94507888583E+02	Apriori clock (usec)	1.4682239E+01	Resid sbdelay (usec)	9.28129E-01	+/-	1.5E-03
Phase delay (usec)	1.93579762681E+02	Apriori clockrate (us/s)	-2.0163125E-08	Resid phdelay (usec)	2.84748E-06	+/-	6.3E-07
Delay rate (us/s)	5.45171782962E-01	Apriori rate (us/s)	5.45166910777E-01	Resid rate (us/s)	4.87219E-06	+/-	6.1E-09
Total phase (deg)	272.6	Apriori accel (us/s/s)	-1.37333077631E-06	Resid phase (deg)	88.3	+/-	19.5

ph/seg (deg)	60.0	Theor.	45.8	Amplitude	0.173 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	78.0		80.0	Search (1024X32)	0.156	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	35.0		27.6	Inc. seg. avg.	0.159	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	58.4		48.2	Inc. frq. avg.	0.163	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
f: az 138.7 el 54.1 pa -34.5		G: az 182.2 el 53.5 pa 2.1		u,v (fr/asec)	-3124.925 -993.120	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/No0707//fG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fG.W.90.3MP2MB simultaneous interpolator

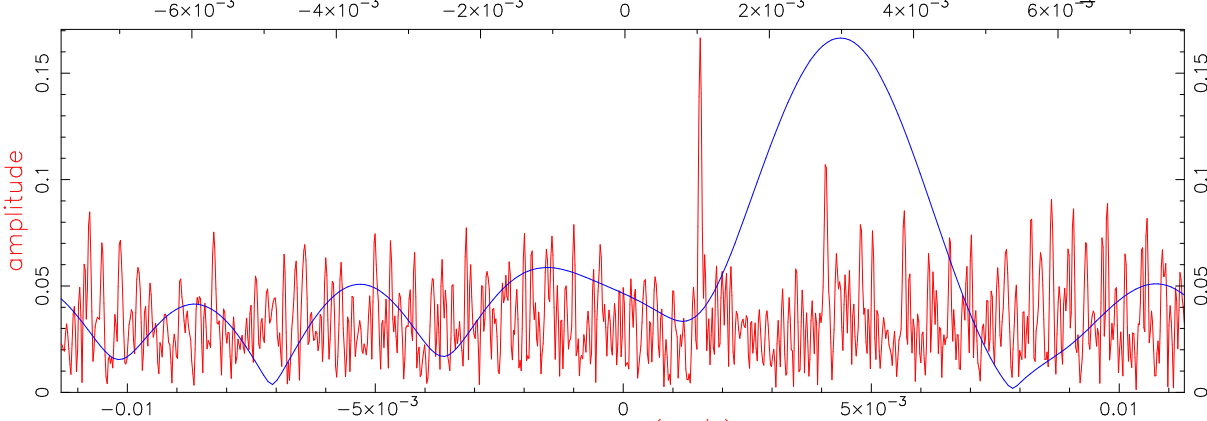
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fg

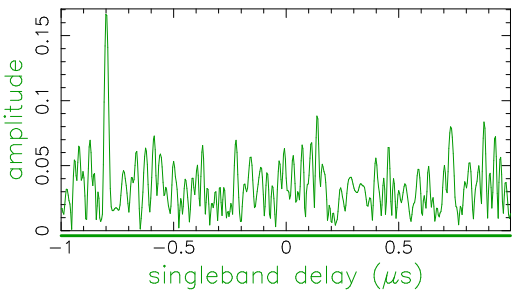
VLBA_FD - GLT, fgroup W, pol LR

multiband delay (μ s)

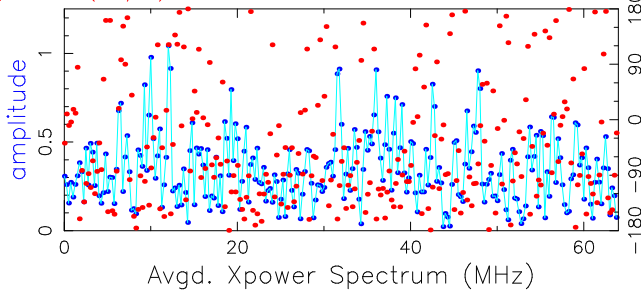


Fringe quality 0

SNR 6.2
 Int time 179.983
 Amp 0.171
 Phase 11.6
 PFD 6.8e-02
 Delays (us)
 SBD -0.798994
 MBD 0.003016
 Fringe rate (Hz) 0.134513
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

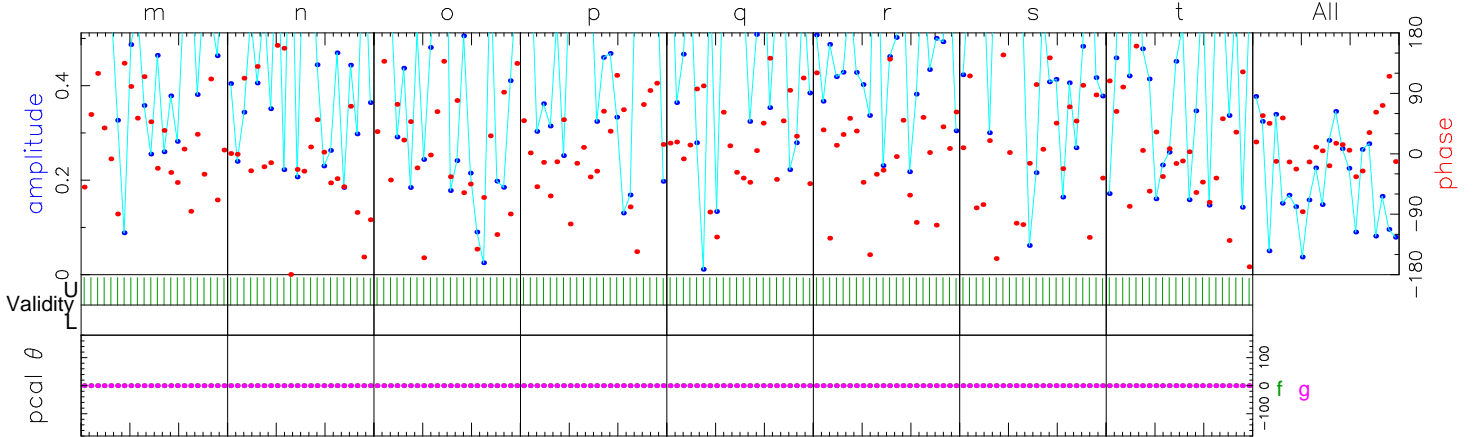


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175926
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	9.2	-17.2	43.6	17.5	12.8	14.5	-42.1	6.9	Phase	11.6
	0.2	0.1	0.1	0.2	0.3	0.2	0.0	0.1	Ampl.	0.2
	164.1	294.0	118.5	31.6	52.2	53.0	151.4	288.2	Sbd box	52.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
f:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	1.17582357705E+04	Apriori delay (usec)	1.17590296299E+04	Resid mbdelay (usec)	3.01556E-03	+/-	1.7E-04
Sband delay (usec)	1.17582306354E+04	Apriori clock (usec)	-2.8049278E-01	Resid sbdelay (usec)	-7.98994E-01	+/-	1.4E-03
Phase delay (usec)	1.17590296303E+04	Apriori clockrate (us/s)	-7.3410202E-07	Resid phdelay (usec)	3.73468E-07	+/-	6.0E-07
Delay rate (us/s)	5.89954774591E-01	Apriori rate (us/s)	5.89953213032E-01	Resid rate (us/s)	1.56156E-06	+/-	5.7E-09
Total phase (deg)	126.6	Apriori accel (us/s/s)	-6.42790943039E-05	Resid phase (deg)	11.6	+/-	18.5

ph/seg (deg)	42.4	Theor.	43.3	Amplitude	0.171 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	61.4	Search (1024X32)	0.159	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	28.3	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	47.2	Inc. seg. avg.	0.153	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.158	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 138.7 el 54.1 pa -34.5 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -3414.605 -4273.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fg.W.93.3MP2MB

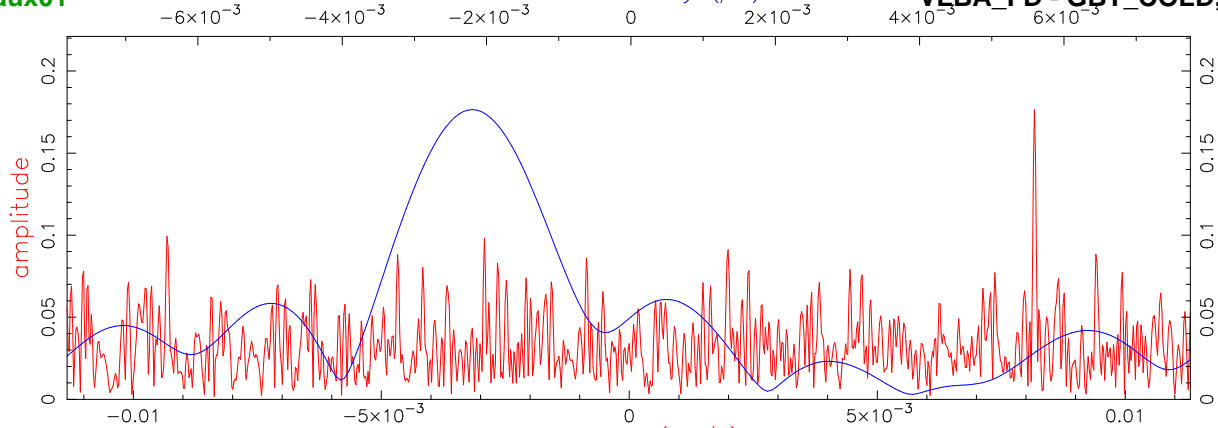
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fG

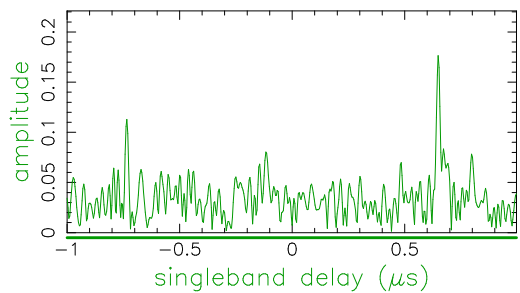
VLBA_FD - GBT_COLD, fgroup W, pol RL

multiband delay (μ s)

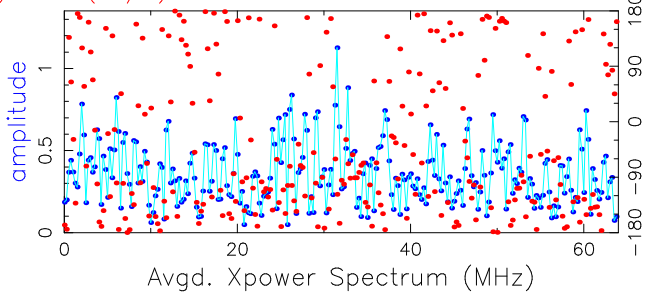


Fringe quality 0

SNR 6.5
 Int time 179.983
 Amp 0.221
 Phase 151.3
 PFD 1.3e-02
 Delays (us)
 SBD 0.648910
 MBD -0.002184
 Fringe rate (Hz)
 0.704837
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

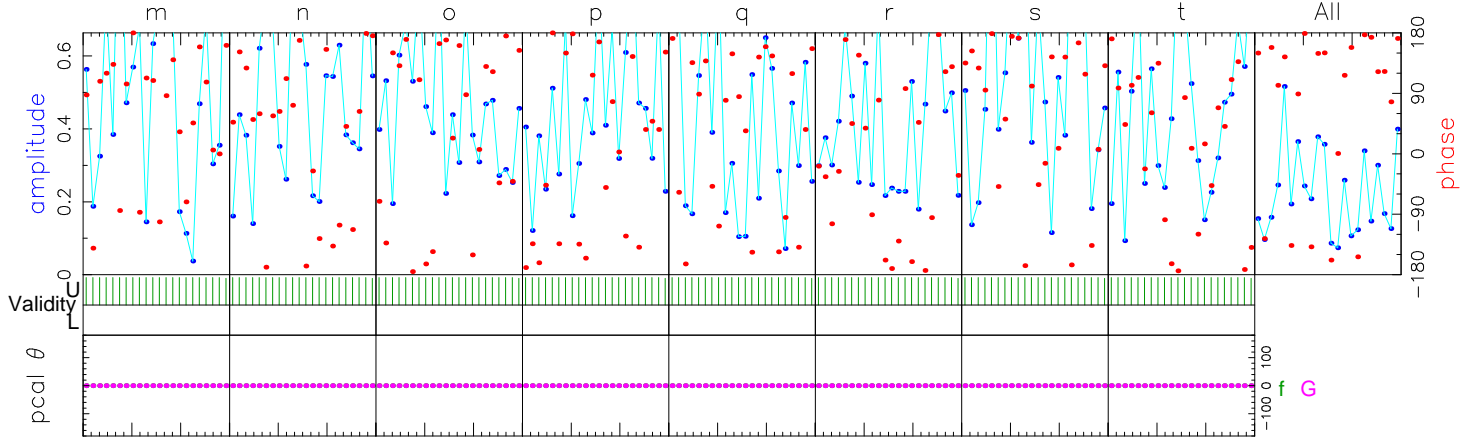


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175928
 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		
f	0	0	0	0	0	0	0	0		
G	0	0	0	0	0	0	0	0		
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	1.94233825610E+02	Apriori delay (usec)	1.93579759833E+02	Resid mbdelay (usec)	-2.18422E-03	+/-	1.7E-04
Sband delay (usec)	1.94228669333E+02	Apriori clock (usec)	1.4682239E+01	Resid sbdelay (usec)	6.48910E-01	+/-	1.3E-03
Phase delay (usec)	1.93579764711E+02	Apriori clockrate (us/s)	-2.0163125E-08	Resid phdelay (usec)	4.87809E-06	+/-	5.7E-07
Delay rate (us/s)	5.45175093232E-01	Apriori rate (us/s)	5.45166910777E-01	Resid rate (us/s)	8.18245E-06	+/-	5.5E-09
Total phase (deg)	335.6	Apriori accel (us/s/s)	-1.37333077631E-06	Resid phase (deg)	151.3	+/-	17.7

ph/seg (deg)	53.3	Theor.	41.5	Amplitude	0.221 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	73.3	Search (1024X32)	0.169	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.9	Inc. seg. avg.	0.227	Inc. frq. avg.	0.208	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	27.2	Inc. frq. avg.	0.208			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
f: az 138.7 el 54.1 pa -34.5		G: az 182.2 el 53.5 pa 2.1		u, v (fr/asec)	-3124.925 -993.120	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

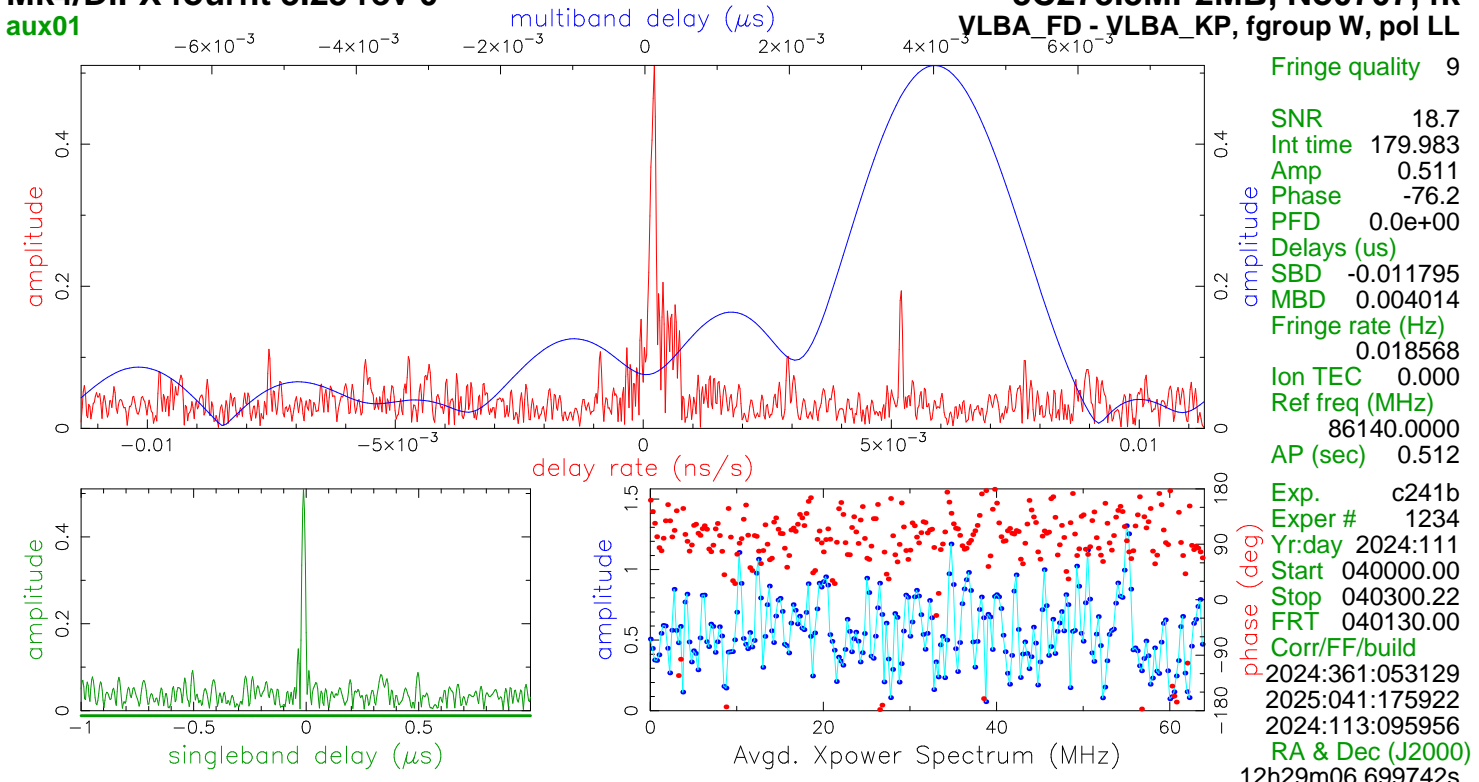
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/fG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/fG.W.98.3MP2MB simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

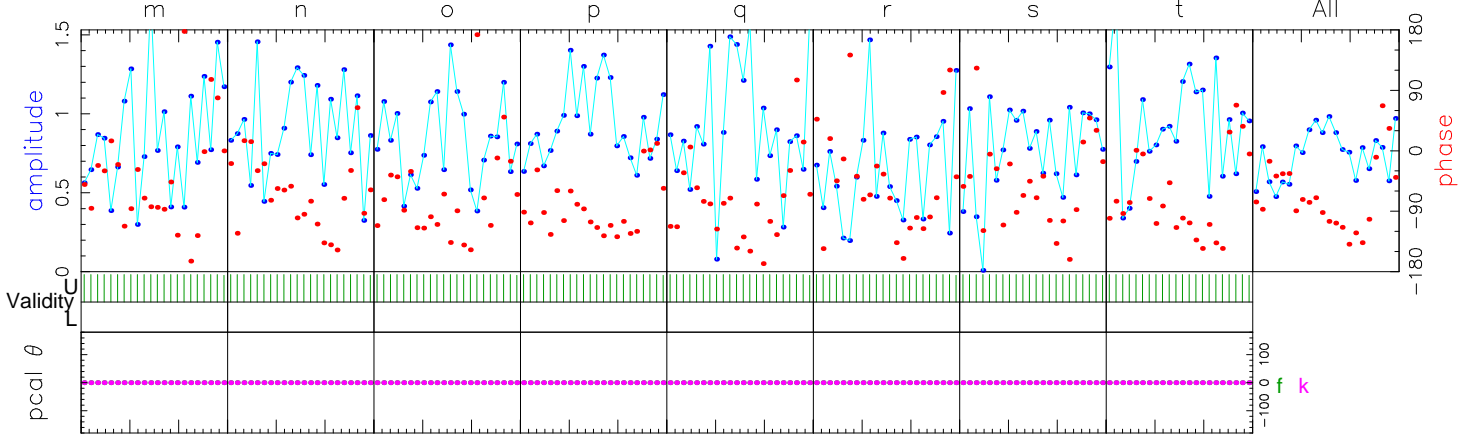
aux01

3C273.3MP2MB, No0707, fk

VLBA_FD - VLBA_KP, 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
	-64.9	-68.2	-84.7	-86.5	-93.1	-61.8	-48.9	-83.5	Phase	-76.2
	0.4	0.6	0.6	0.7	0.6	0.4	0.4	0.5	Ampl.	0.5
	253.6	254.0	254.2	253.7	254.1	253.9	253.6	254.5	Sbd box	254.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.28836097291E+03	Apriori delay (usec)	1.28837258347E+03	Resid mbdelay (usec)	4.01443E-03	+/-	5.8E-05
Sband delay (usec)	1.28836078822E+03	Apriori clock (usec)	-9.2676163E-02	Resid sbdelay (usec)	-1.17952E-02	+/-	4.6E-04
Phase delay (usec)	1.28837258102E+03	Apriori clockrate (us/s)	-1.0198613E-07	Resid phdelay (usec)	-2.45598E-06	+/-	2.0E-07
Delay rate (us/s)	-1.50929324539E-01	Apriori rate (us/s)	-1.50929540098E-01	Resid rate (us/s)	2.15559E-07	+/-	1.9E-09
Total phase (deg)	46.3	Apriori accel (us/s/s)	-6.92577797187E-06	Resid phase (deg)	-76.2	+/-	6.1

ph/seg (deg)	52.7	Theor.	14.3	Amplitude	0.511 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	54.5	Search (1024X32)	0.503	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.6	Inc. seg. avg.	0.720	Inc. frq. avg.	0.520	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	21.6	Inc. frq. avg.	0.520			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
f: az 138.7 el 54.1 pa -34.5		k: az 130.2 el 48.5 pa -40.3		u, v (fr/asec)	861.275 -193.186	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/No0707//fk..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//fk.W.73.3MP2MB						simultaneous interpolator

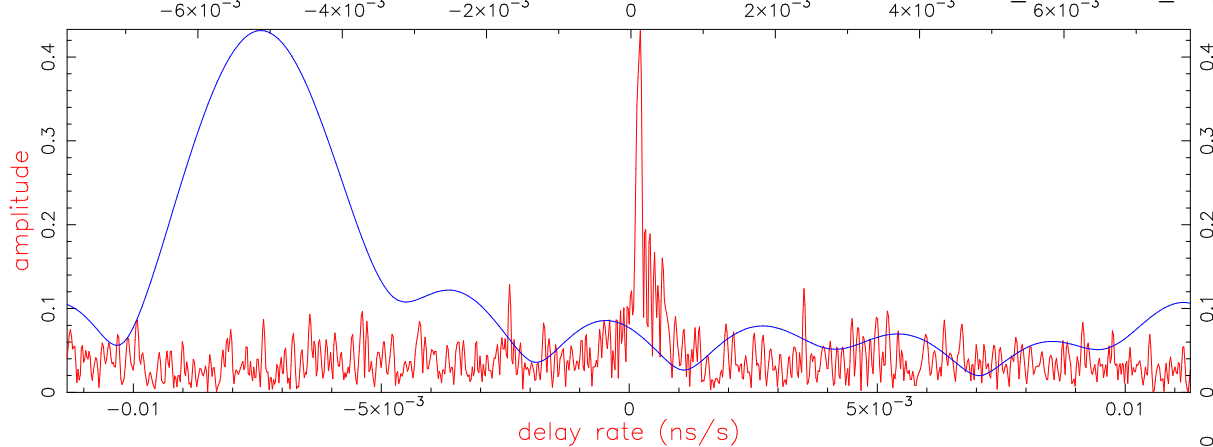
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fk

VLBA_FD - VLBA_KP, fgroup W, pol RR

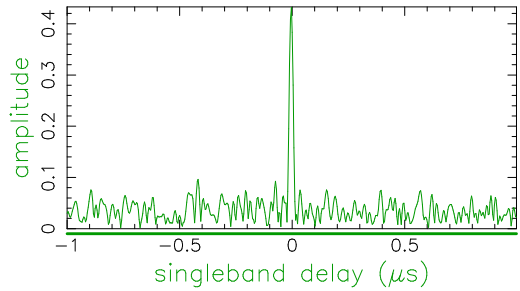
multiband delay (μ s)



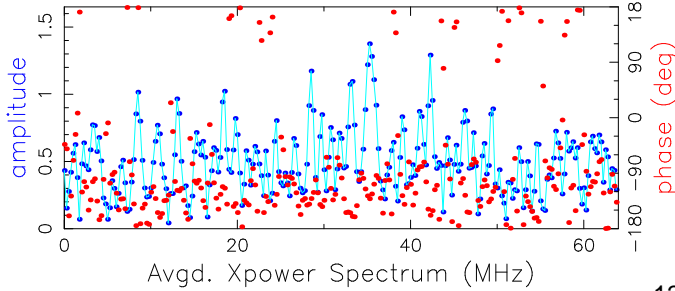
Fringe quality 9

SNR 15.9
Int time 179.983
Amp 0.433
Phase -119.9
PFD 0.0e+00
Delays (us)
SBD -0.004608
MBD -0.005127
Fringe rate (Hz) 0.018207
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

delay rate (ns/s)

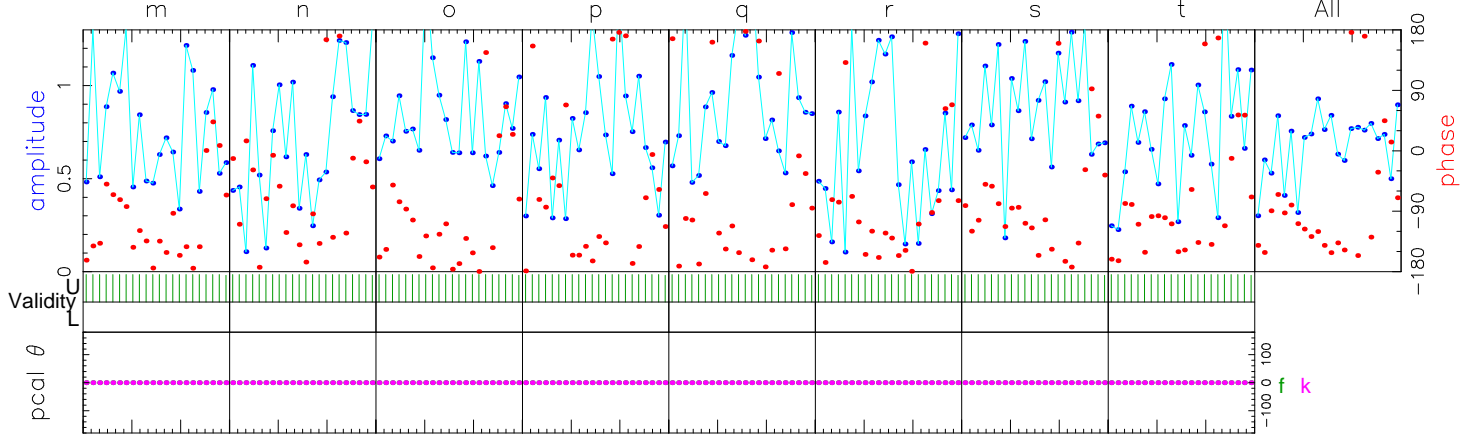


singleband delay (μ s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175923
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
	-110.9	-83.0	-131.3	-142.1	-138.1	-122.1	-105.2	-108.9	Phase	-119.9
	0.4	0.3	0.5	0.5	0.6	0.4	0.5	0.4	Ampl.	0.4
	255.3	255.5	256.2	255.6	256.4	256.3	255.6	255.1	Sbd box	255.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.28836745623E+03	Apriori delay (usec)	1.28837258347E+03	Resid mbdelay (usec)	-5.12724E-03	+/-	6.8E-05
Sband delay (usec)	1.28836797597E+03	Apriori clock (usec)	-9.2676163E-02	Resid sbdelay (usec)	-4.60750E-03	+/-	5.4E-04
Phase delay (usec)	1.28837257960E+03	Apriori clockrate (us/s)	-1.0198613E-07	Resid phdelay (usec)	-3.86704E-06	+/-	2.3E-07
Delay rate (us/s)	-1.50929328738E-01	Apriori rate (us/s)	-1.50929540098E-01	Resid rate (us/s)	2.11360E-07	+/-	2.2E-09
Total phase (deg)	2.6	Apriori accel (us/s/s)	-6.92577797187E-06	Resid phase (deg)	-119.9	+/-	7.2

ph/seg (deg)	RMS 58.7	Theor. 16.9	Amplitude Search (1024X32)	0.433 +/- 0.027	0.413	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.9	29.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	21.4	10.2	Inc. seg. avg.	0.650	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	mb window (us) -0.008 0.008
amp/frq (%)	16.8	17.8	Inc. frq. avg.	0.446	Data rate(Mb/s): 2048	ion window (TEC)	dr window (ns/s) -0.011 0.011
f: az 138.7 el 54.1 pa -34.5	k: az 130.2 el 48.5 pa -40.3		u, v (fr/asec) 861.275 -193.186		simultaneous interpolator		

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fk.W.83.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

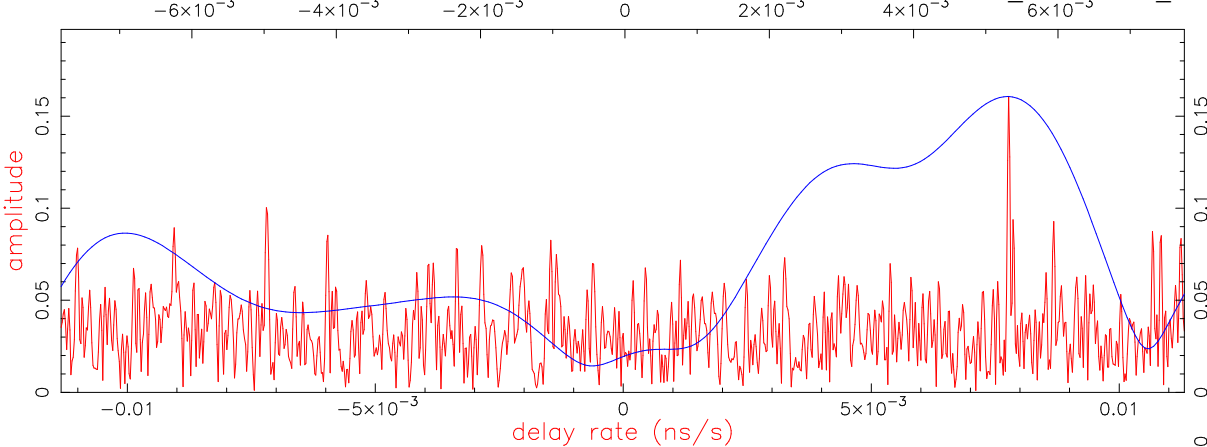
aux01

3C273.3MP2MB, No0707, fk

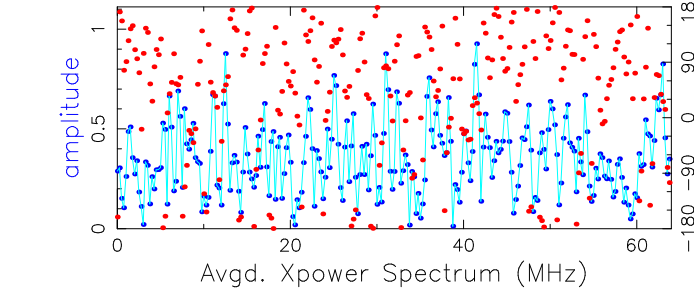
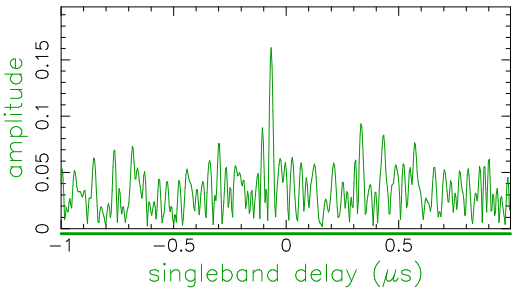
VLBA_FD - VLBA_KP, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 0

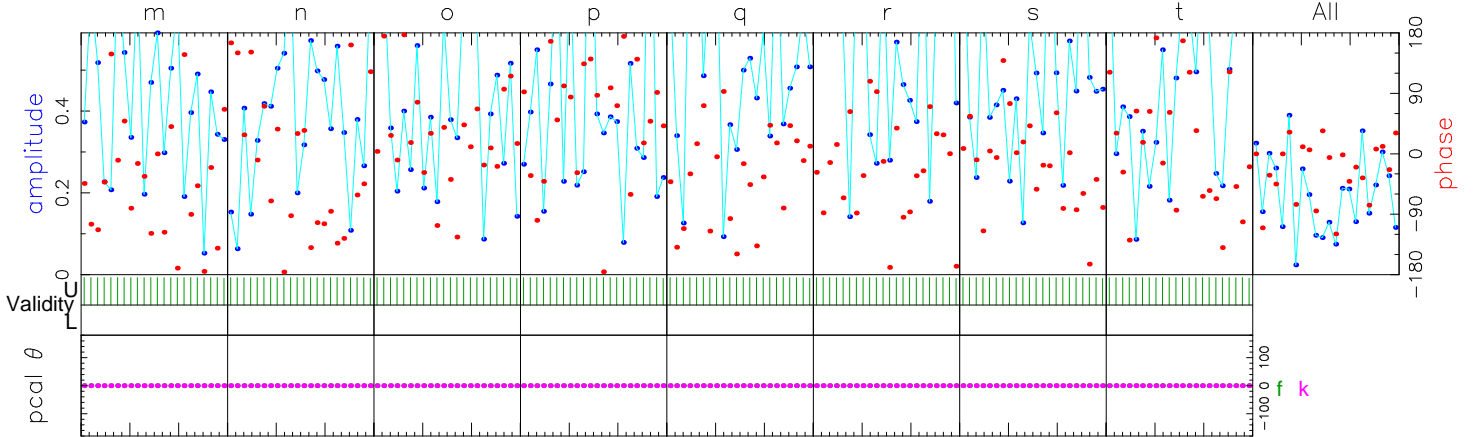


SNR 5.9
 Int time 179.983
 Amp 0.197
 Phase -14.0
 PFD 3.6e-01
 Delays (us)
 SBD -0.067028
 MBD 0.005282
 Fringe rate (Hz)
 0.670805
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175925
 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
	-52.6	-101.0	33.7	83.0	-19.6	-19.6	-19.9	-39.6	Phase	-14.0
	0.2	0.1	0.3	0.2	0.4	0.5	0.3	0.1	Ampl.	0.2
	360.6	270.6	237.8	237.5	239.0	240.1	240.8	305.1	Sbd box	239.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.28829974039E+03	Apriori delay (usec)	1.28837258347E+03	Resid mbdelay (usec)	5.28191E-03	+/-	1.8E-04
Sband delay (usec)	1.28830555572E+03	Apriori clock (usec)	-9.2676163E-02	Resid sbdelay (usec)	-6.70277E-02	+/-	1.5E-03
Phase delay (usec)	1.28837258302E+03	Apriori clockrate (us/s)	-1.0198613E-07	Resid phdelay (usec)	-4.50298E-07	+/-	6.3E-07
Delay rate (us/s)	-1.50921752712E-01	Apriori rate (us/s)	-1.50929540098E-01	Resid rate (us/s)	7.78739E-06	+/-	6.0E-09
Total phase (deg)	108.5	Apriori accel (us/s/s)	-6.92577797187E-06	Resid phase (deg)	-14.0	+/-	19.4

ph/seg (deg)	45.2	Theor.	45.5	Amplitude	0.197 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	63.5		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)	59.9		27.4	Inc. seg. avg.	0.184	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	67.2		47.9	Inc. frq. avg.	0.235	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

f: az 138.7 el 54.1 pa -34.5 k: az 130.2 el 48.5 pa -40.3 u,v (fr/asec) 861.275 -193.186 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/fk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/fk.W.91.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

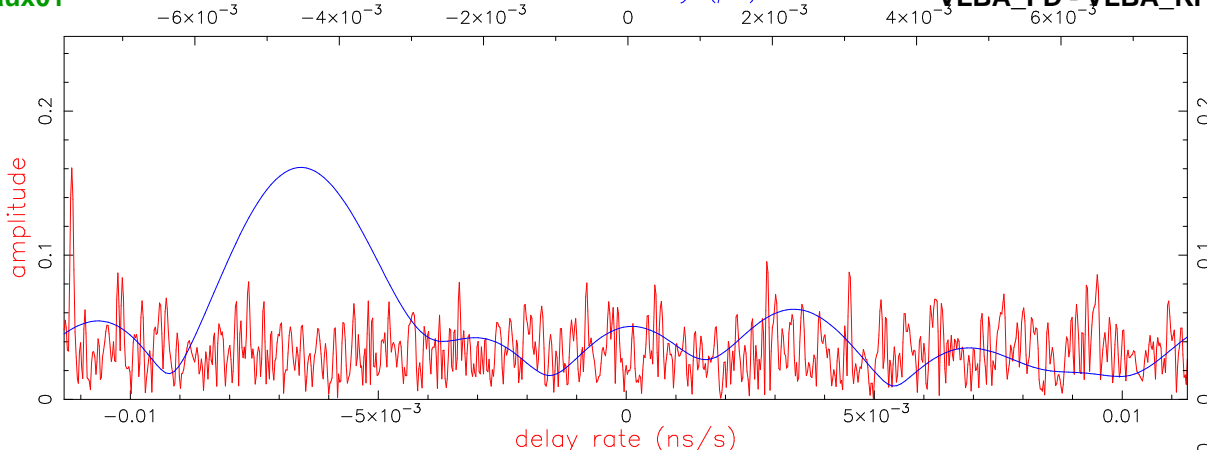
aux01

3C273.3MP2MB, No0707, fk

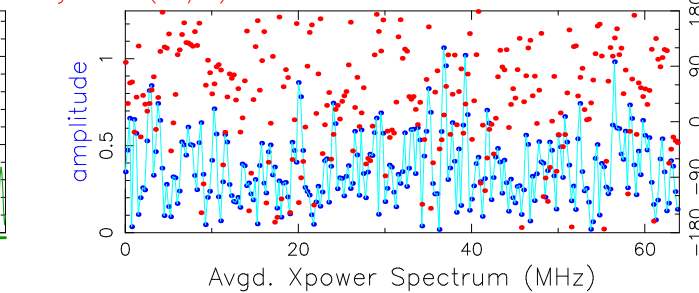
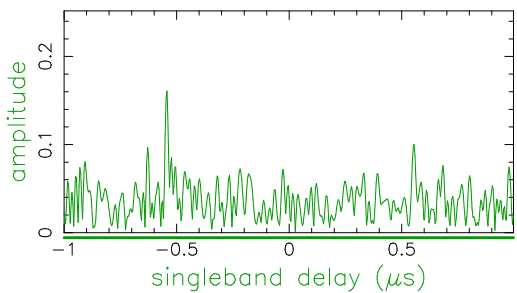
VLBA_FD - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

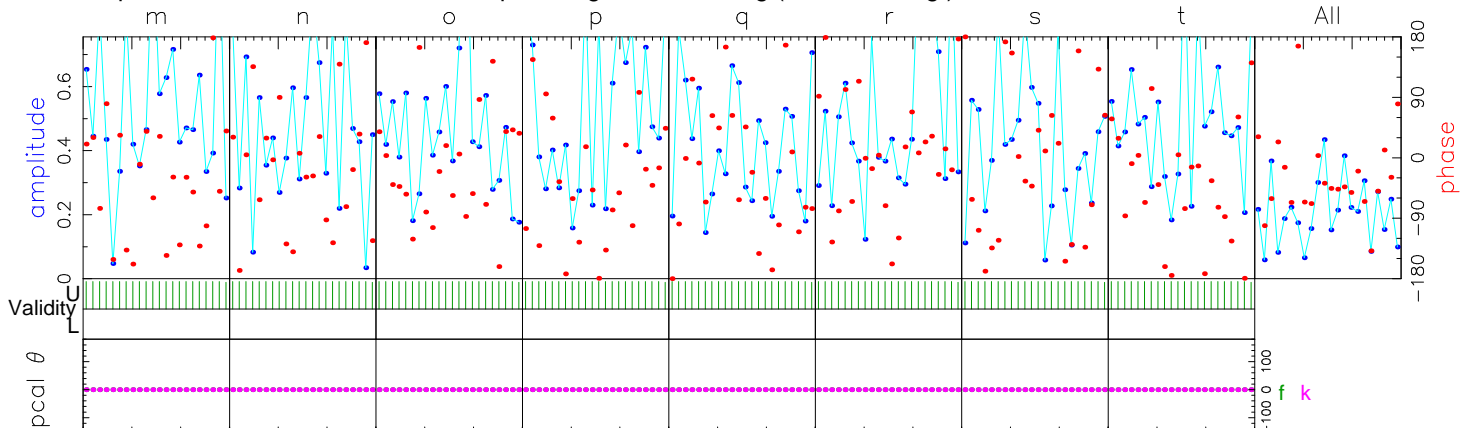


SNR 6.0
 Int time 179.983
 Amp 0.252
 Phase -38.7
 PFD 2.9e-01
 Delays (us)
 SBD -0.544106
 MBD -0.004605
 Fringe rate (Hz)
 -0.964749
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175927
 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
	-54.7	-34.1	-36.8	-47.0	-49.3	1.4	-79.8	-42.5	Phase	-38.7
	0.3	0.3	0.4	0.2	0.2	0.3	0.1	0.3	Ampl.	0.2
	423.1	338.5	346.0	19.7	172.4	171.4	255.3	406.4	Sbd box	117.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.28782110307E+03	Apriori delay (usec)	1.28837258347E+03	Resid mbdelay (usec)	-4.60540E-03	+/-	1.8E-04
Sband delay (usec)	1.28782847697E+03	Apriori clock (usec)	-9.2676163E-02	Resid sbdelay (usec)	-5.44106E-01	+/-	1.4E-03
Phase delay (usec)	1.28837258222E+03	Apriori clockrate (us/s)	-1.0198613E-07	Resid phdelay (usec)	-1.24660E-06	+/-	6.2E-07
Delay rate (us/s)	-1.50940739877E-01	Apriori rate (us/s)	-1.50929540098E-01	Resid rate (us/s)	-1.11998E-05	+/-	6.0E-09
Total phase (deg)		Apriori accel (us/s/s)	-6.92577797187E-06	Resid phase (deg)	-38.7	+/-	19.3

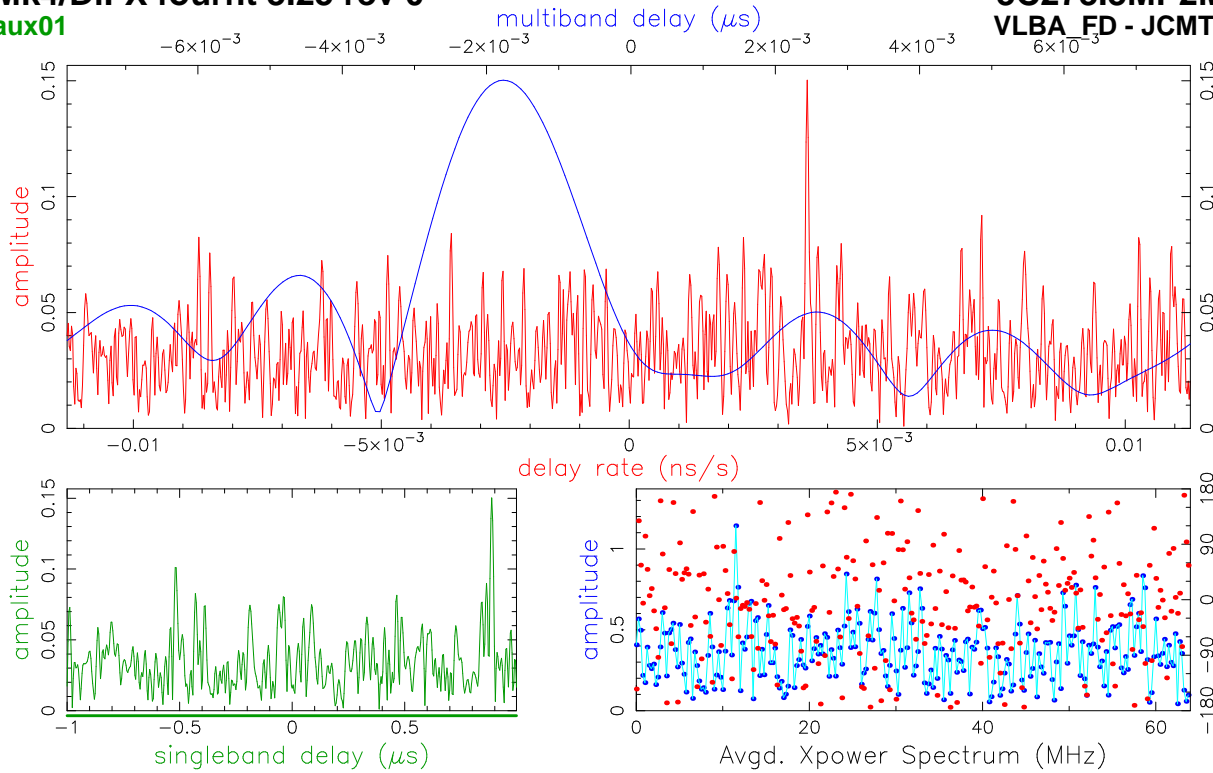
ph/seg (deg) 56.3 45.2 Amplitude 0.252 +/- 0.042 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.2 78.8 Search (1024X32) 0.158 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.1 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.4 47.5 Inc. seg. avg. 0.249 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 k: az 130.2 el 48.5 pa -40.3 u,v (fr/asec) 861.275 -193.186 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fk.W.97.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

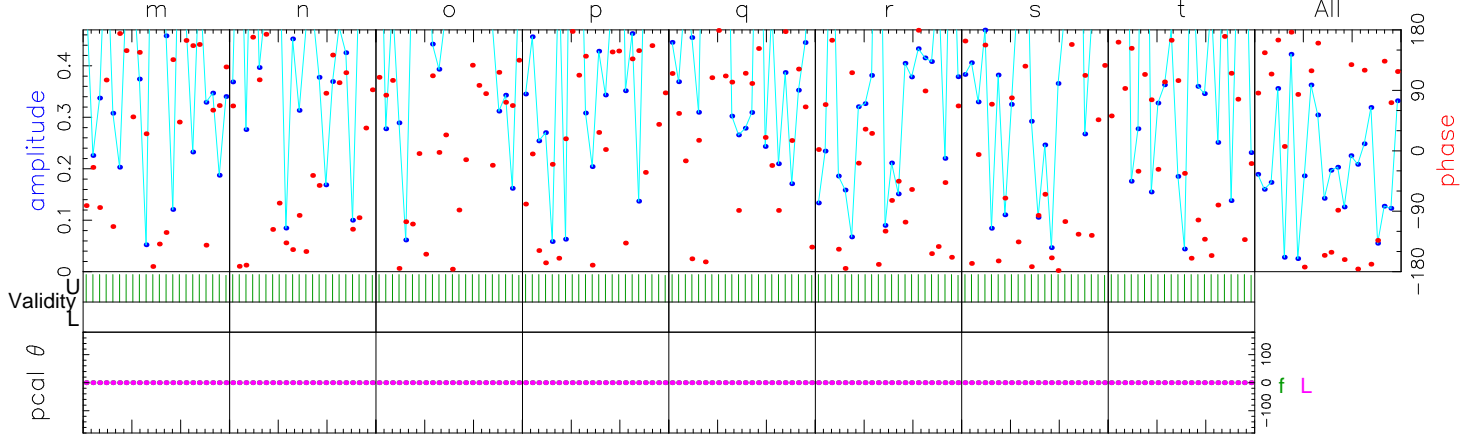
3C273.3MP2MB, No0707, fL

VLBA_FD - JCMT, fgroup W, pol LR



Fringe quality 0
 SNR 5.5
 Int time 179.983
 Amp 0.157
 Phase 155.8
 PFD 9.9e-01
 Delays (us)
 SBD 0.886567
 MBD -0.001770
 Fringe rate (Hz)
 0.309270
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175929
 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		
f	0	0	0	0	0	0	0	0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
Group delay (usec) (SBD)	1.15189729564E+04					1.15180841011E+04			Resid mbdelay (usec)	-1.76968E-03 +/- 2.0E-04
Sband delay (usec)	1.15189706683E+04					2.7610779E-01			Resid sbdelay (usec)	8.86567E-01 +/- 1.6E-03
Phase delay (usec)	1.15180841061E+04					3.8630687E-07			Resid phdelay (usec)	5.02401E-06 +/- 6.7E-07
Delay rate (us/s)	-8.93802556599E-01					-8.93806146918E-01			Resid rate (us/s)	3.59032E-06 +/- 6.4E-09
Total phase (deg)			323.7			-6.06024212589E-05			Resid phase (deg)	155.8 +/- 20.8
ph/seg (deg)	58.7	48.7							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.6	85.1							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	33.7	29.4							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	21.1	51.3							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
f: az 138.7 el 54.1 pa -34.5		L: az 93.6 el 15.4 pa -70.0				u,v (fr/asec) 5091.083 1343.559				simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB				Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.109.3MP2MB				

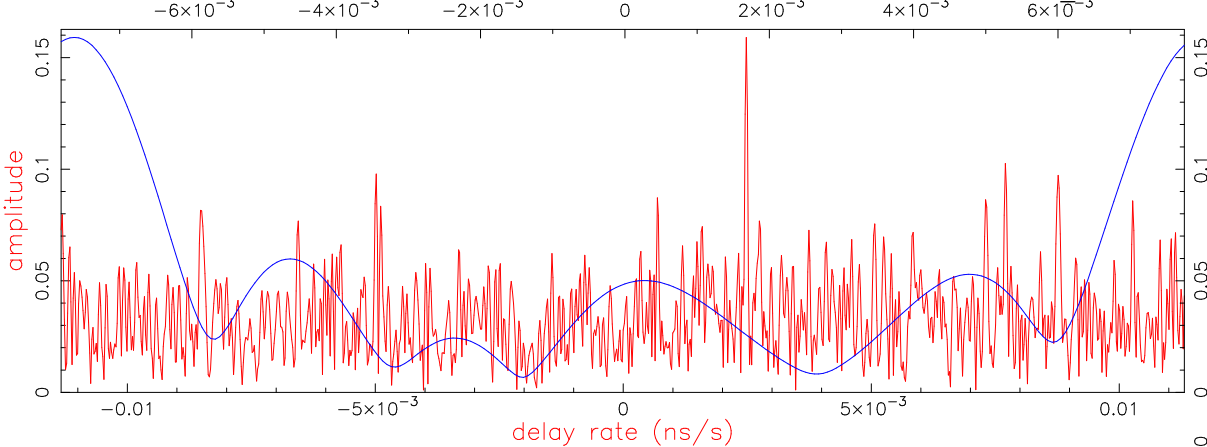
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fL

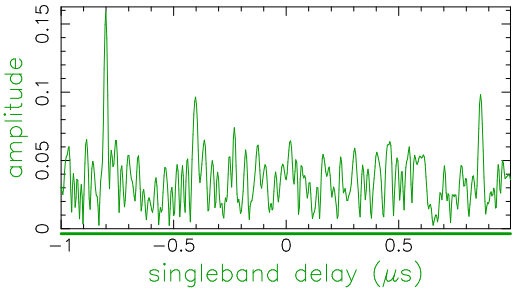
VLBA_FD - JCMT, fgroup W, pol RL

multiband delay (μ s)

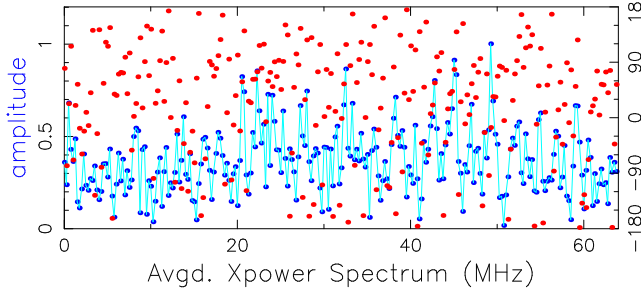


Fringe quality 0

SNR 5.9
 Int time 179.983
 Amp 0.163
 Phase -79.4
 PFD 4.6e-01
 Delays (us)
 SBD -0.801446
 MBD -0.007643
 Fringe rate (Hz)
 0.213100
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

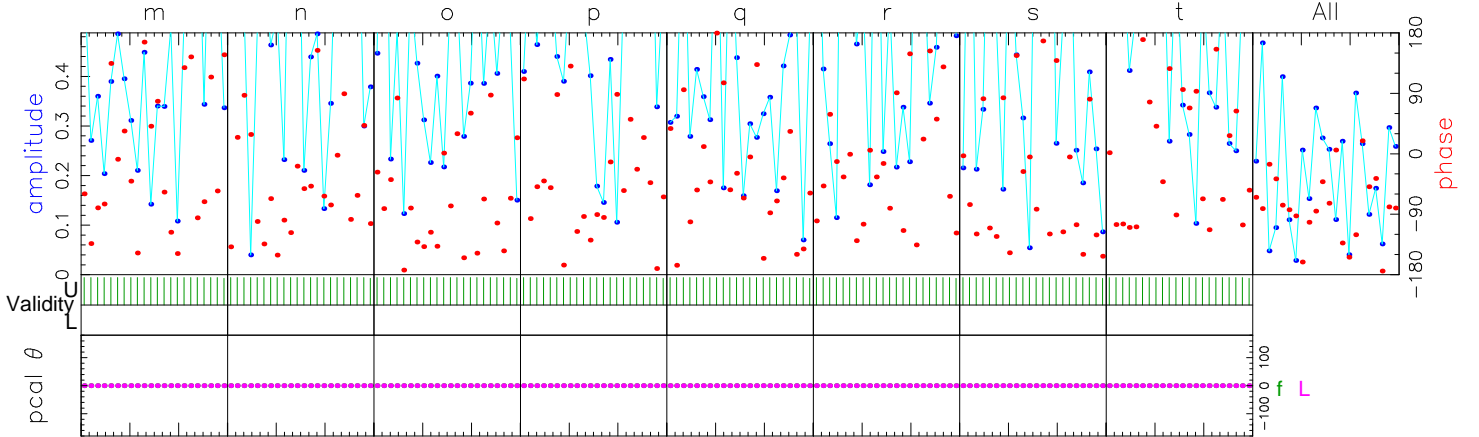


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175931
 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
	-114.6	-79.4	-90.5	-57.0	-60.4	-59.2	-110.5	-73.3	Phase	-79.4
	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	Ampl.	0.2
	241.8	414.7	246.8	405.7	359.3	173.1	50.0	257.9	Sbd box	51.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	1.15172795829E+04	Apriori delay (usec)	1.15180841011E+04	Resid mbdelay (usec)	-7.64319E-03	+/-	1.9E-04
Sband delay (usec)	1.15172826553E+04	Apriori clock (usec)	2.7610779E-01	Resid sbdelay (usec)	-8.01446E-01	+/-	1.5E-03
Phase delay (usec)	1.15180840985E+04	Apriori clockrate (us/s)	3.8630687E-07	Resid phdelay (usec)	-2.56159E-06	+/-	6.3E-07
Delay rate (us/s)	-8.93803673038E-01	Apriori rate (us/s)	-8.93806146918E-01	Resid rate (us/s)	-2.47388E-06	+/-	6.1E-09
Total phase (deg)	88.5	Apriori accel (us/s/s)	-6.06024212589E-05	Resid phase (deg)	-79.4	+/-	19.6

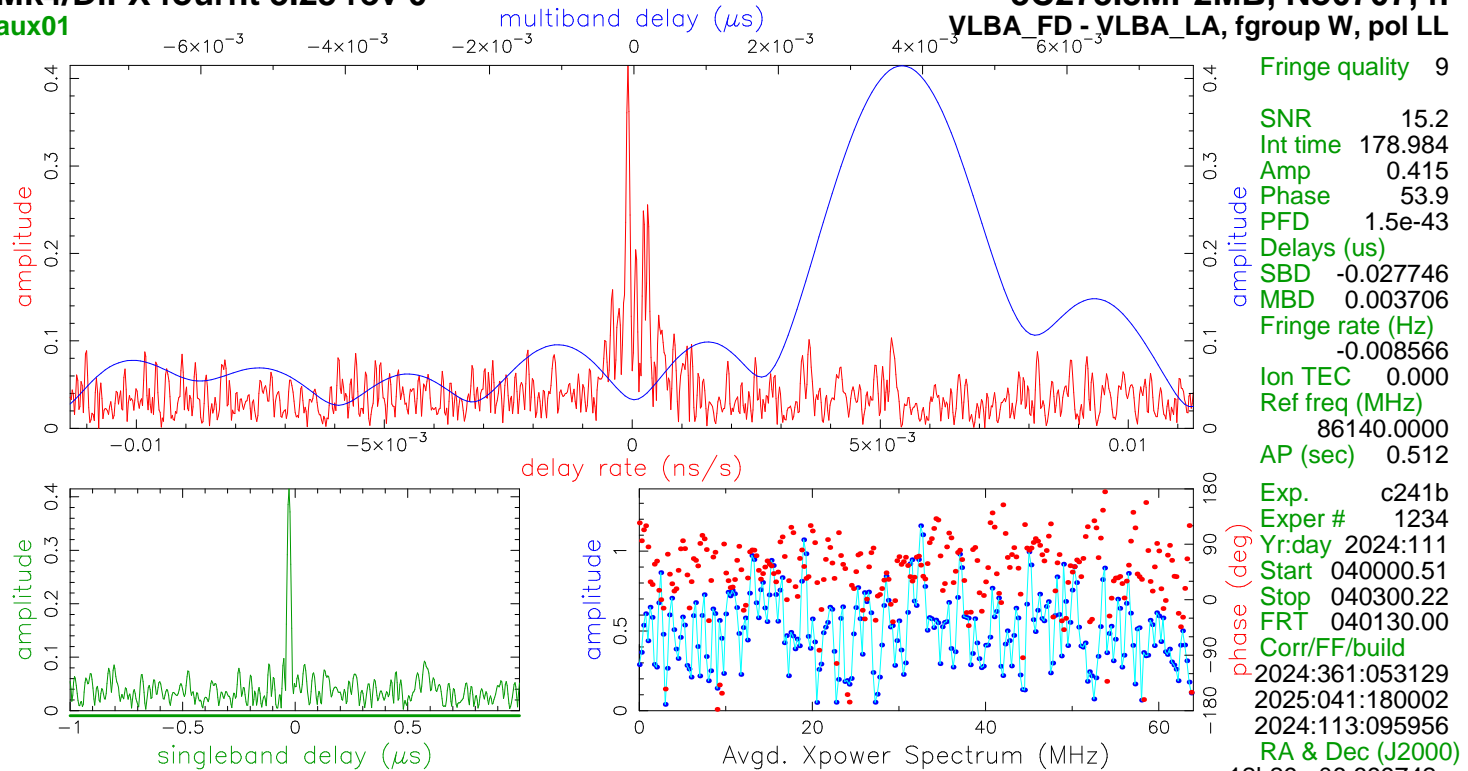
ph/seg (deg) 49.5 45.9 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.2 80.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.6 27.7 Inc. seg. avg. 0.162 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.0 48.3 Inc. frq. avg. 0.155 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5091.083 1343.559 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.118.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

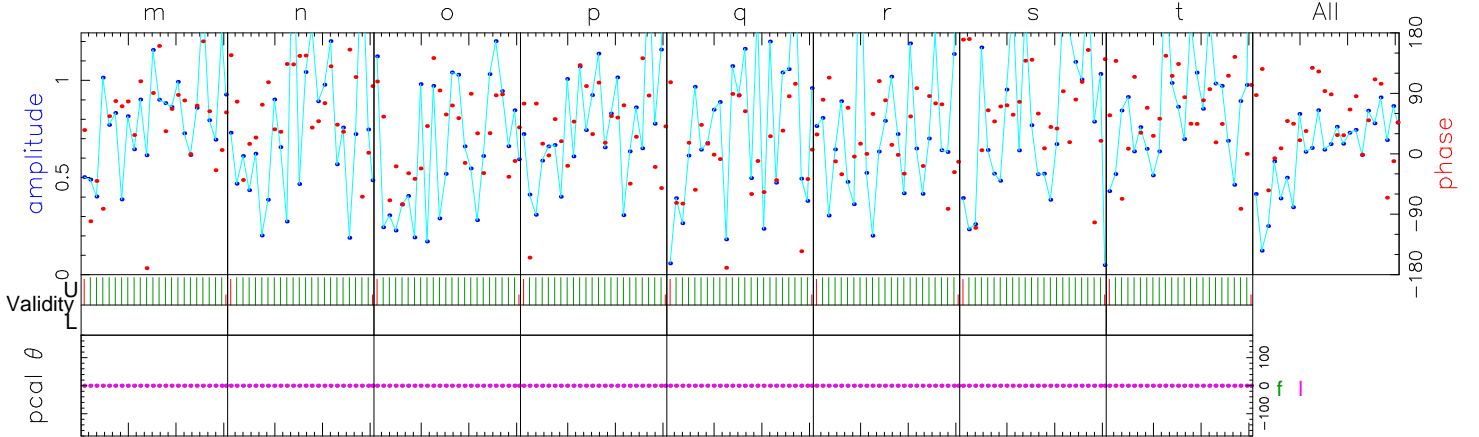
aux01

3C273.3MP2MB, No0707, fl

VLBA_FD - VLBA_LA, fgroup W, pol LL



Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



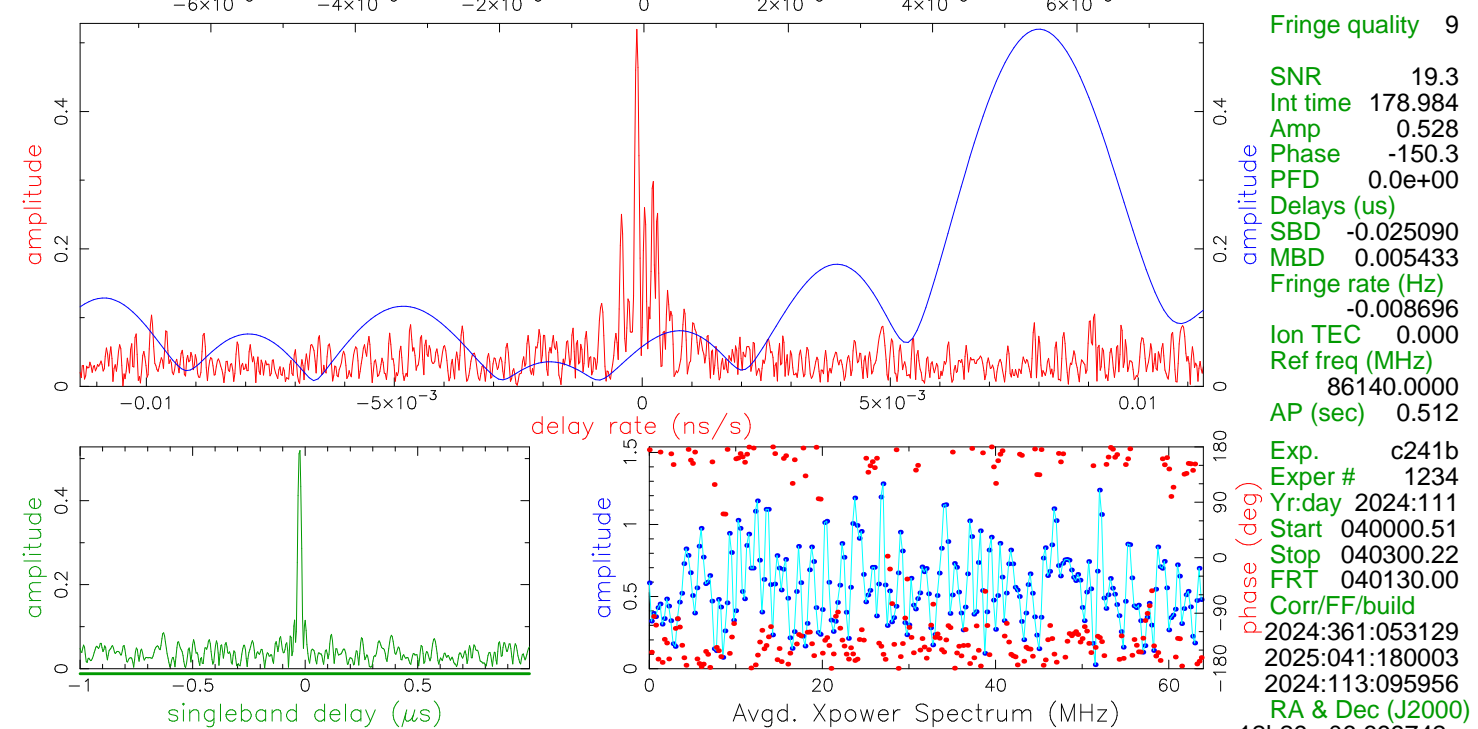
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0		
f	0	0	0	0	0	0	0	0		
l	0	0	0	0	0	0	0	0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec) (SBD)	1.19367735010E+03					1.19370489416E+03			3.70594E-03	+/- 7.1E-05
Sband delay (usec)	1.19367714816E+03					8.3574429E+00			-2.77460E-02	+/- 5.7E-04
Phase delay (usec)	1.19370489590E+03					2.8422100E-07			1.73887E-06	+/- 2.4E-07
Delay rate (us/s)	-1.74407905655E-02					-1.74406911280E-02			-9.94376E-08	+/- 2.3E-09
Total phase (deg)		263.8				-6.58612568781E-06			53.9	+/- 7.5
ph/seg (deg)	54.1	18.5	Search (1024X32)	0.396						
amp/seg (%)	71.7	32.3	Interp.	0.000						
ph/frq (deg)	21.2	10.7	Inc. seg. avg.	0.603						
amp/frq (%)	14.7	18.6	Inc. frq. avg.	0.430						
f: az 138.7 el 54.1 pa -34.5			l: az 139.8 el 48.9 pa -31.4			u, v (fr/asec) 96.396 -681.732				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707//fl..3MP2MB			Output file: /Exps/c241b/v2/3mm/1234/No0707//fl.W.250.3MP2MB				

Mk4/DiFX fourfit 3.25 rev 0

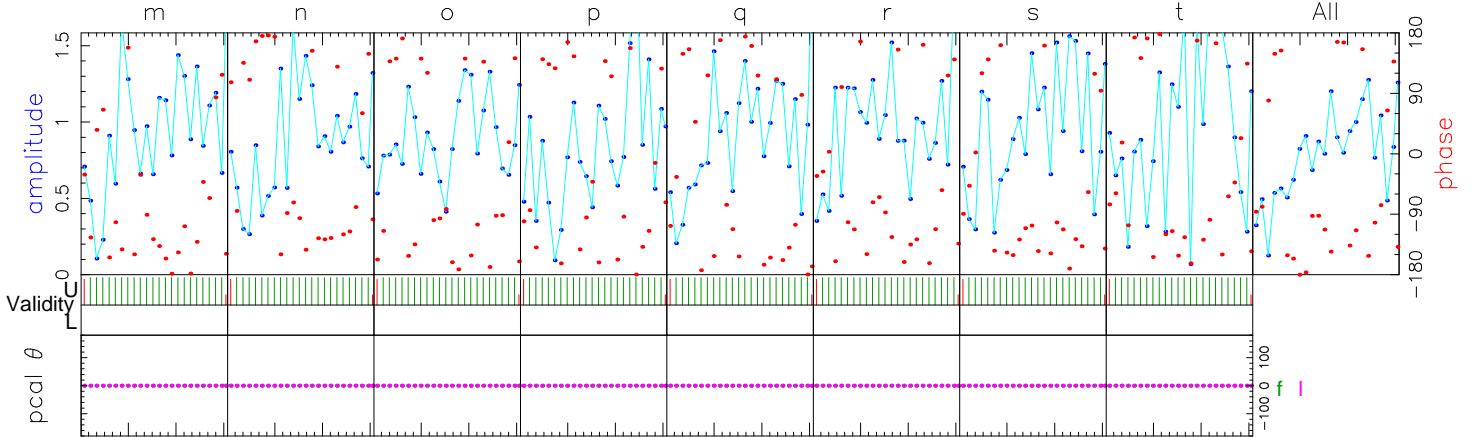
aux01

3C273.3MP2MB, No0707, fl

VLBA_FD - VLBA_LA, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



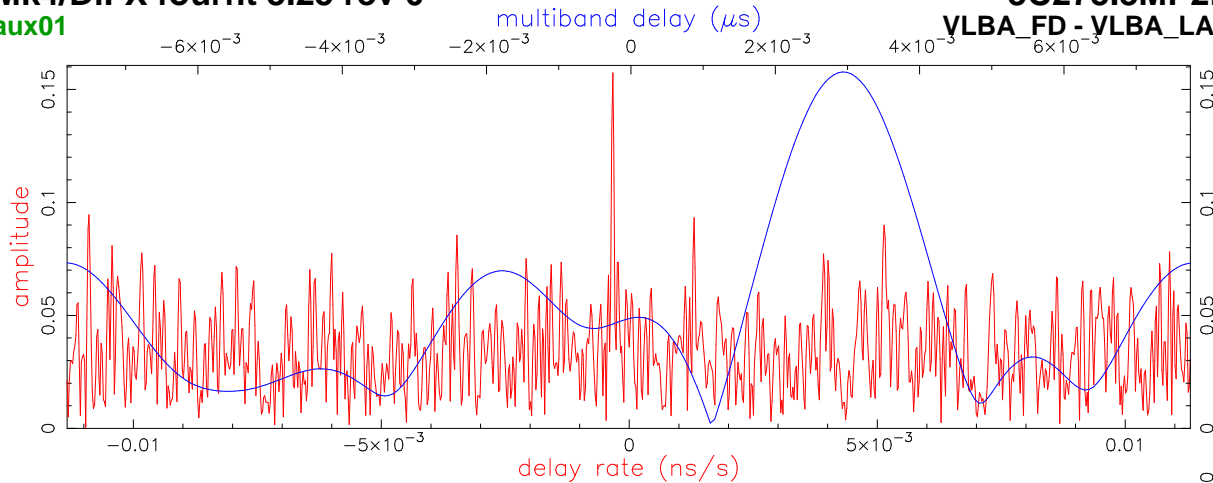
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-136.7	-142.3	-165.4	-168.5	-173.9	-135.3	-142.3	-138.4	Phase	-150.3
	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.6	Ampl.	0.5
	250.5	249.8	250.1	250.1	251.0	251.3	250.6	250.7	Sbd box	250.6
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	1.19367907675E+03		Apriori delay (usec)	1.19370489416E+03	Resid mbdelay (usec)	5.43259E-03	+/-	5.6E-05		
Sband delay (usec)	1.19367980441E+03		Apriori clock (usec)	8.3574429E+00	Resid sbdelay (usec)	-2.50898E-02	+/-	4.5E-04		
Phase delay (usec)	1.19370488931E+03		Apriori clockrate (us/s)	2.8422100E-07	Resid phdelay (usec)	-4.84634E-06	+/-	1.9E-07		
Delay rate (us/s)	-1.74407920776E-02		Apriori rate (us/s)	-1.74406911280E-02	Resid rate (us/s)	-1.00950E-07	+/-	1.8E-09		
Total phase (deg)		59.5	Apriori accel (us/s/s)	-6.58612568781E-06	Resid phase (deg)	-150.3	+/-	5.9		
ph/seg (deg)	RMS 60.4	Theor. 14.5	Amplitude Search (1024X32)	0.528 +/- 0.027	0.504	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.0	25.4	Interp.	0.000	0.504	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	17.3	8.4	Inc. seg. avg.	0.753	0.753	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	6.8	14.6	Inc. frq. avg.	0.532	0.532	Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00
f: az 138.7 el 54.1 pa -34.5			l: az 139.8 el 48.9 pa -31.4			u, v (fr/asec) 96.396 -681.732				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707//fl..3MP2MB			Output file: /Exps/c241b/v2/3mm/1234/No0707//fl.W.261.3MP2MB				

Mk4/DiFX fourfit 3.25 rev 0

aux01

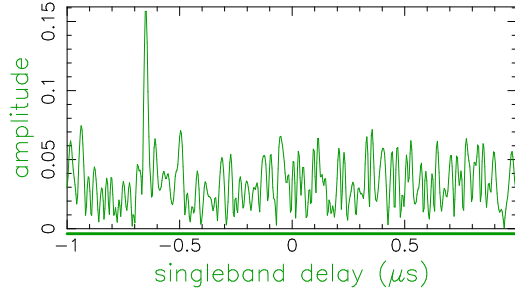
3C273.3MP2MB, No0707, fl

VLBA_FD - VLBA_LA, fgroup W, pol LR

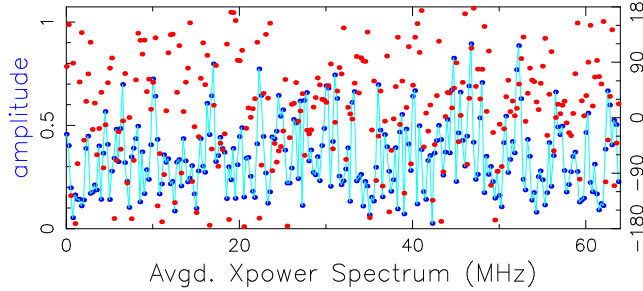


Fringe quality 0

SNR 5.9
 Int time 178.984
 Amp 0.161
 Phase 66.4
 PFD 4.1e-01
 Delays (us)
 SBD -0.650393
 MBD 0.003017
 Fringe rate (Hz)
 -0.028657
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

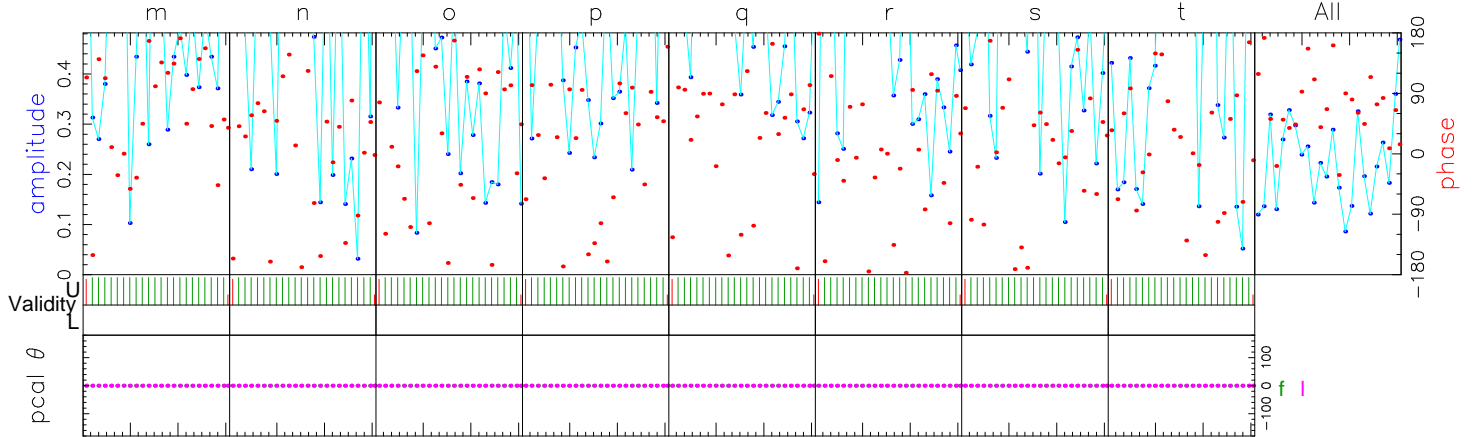


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180006
 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	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0		
f	0	0	0	0	0	0	0	0	77.0	66.4
l	0	0	0	0	0	0	0	0	0.2	0.1
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	444.3	0.1
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	91.5	90.5
f	1000	1000	1000	1000	1000	1000	1000	1000	19.3	
l	1000	1000	1000	1000	1000	1000	1000	1000	111.0	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	89.2	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	82.2	

Group delay (usec) (SBD)	1.19305166130E+03	Apriori delay (usec)	1.19370489416E+03	Resid mbdelay (usec)	3.01714E-03	+/-	1.8E-04
Sband delay (usec)	1.19305450141E+03	Apriori clock (usec)	8.3574429E+00	Resid sbdelay (usec)	-6.50393E-01	+/-	1.5E-03
Phase delay (usec)	1.19370489630E+03	Apriori clockrate (us/s)	2.8422100E-07	Resid phdelay (usec)	2.14033E-06	+/-	6.3E-07
Delay rate (us/s)	-1.74410238100E-02	Apriori rate (us/s)	-1.74406911280E-02	Resid rate (us/s)	-3.32682E-07	+/-	6.1E-09
Total phase (deg)	276.2	Apriori accel (us/s/s)	-6.58612568781E-06	Resid phase (deg)	66.4	+/-	19.5

ph/seg (deg) 51.2 47.8 Amplitude 0.161 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.4 83.4 Search (1024X32) 0.157 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.5 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.0 48.1 Inc. seg. avg. 0.165 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 l: az 139.8 el 48.9 pa -31.4 u,v (fr/asec) 96.396 -681.732 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fl..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fl.W.267.3MP2MB simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

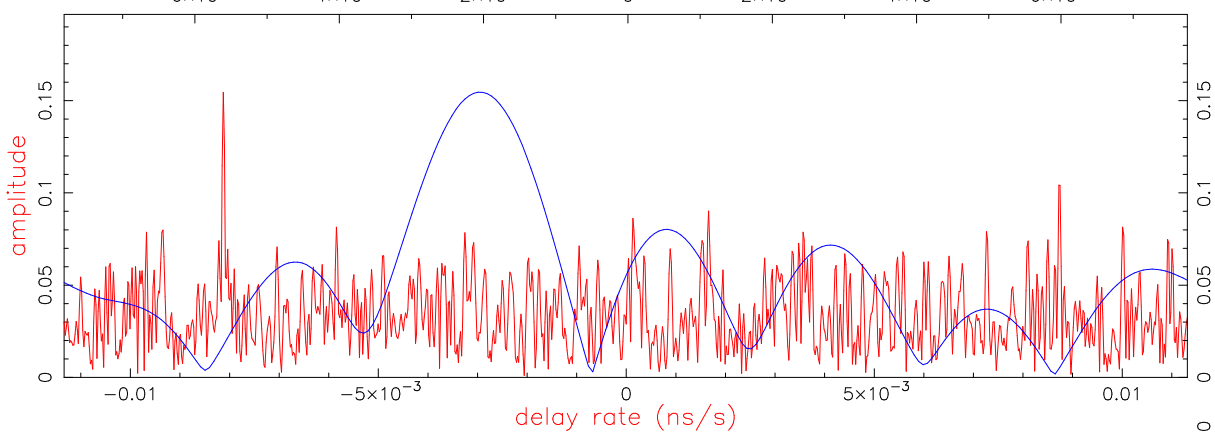
aux01

3C273.3MP2MB, No0707, fl

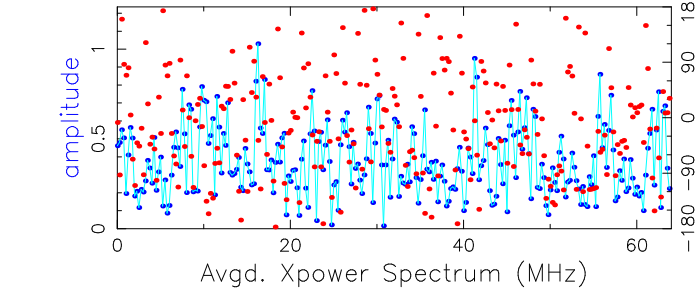
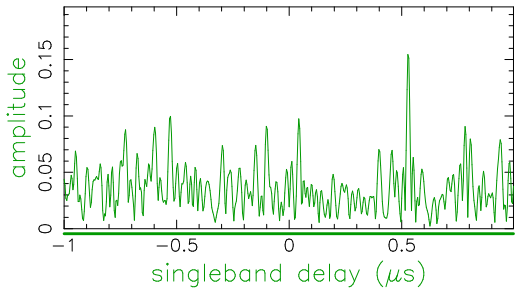
VLBA_FD - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

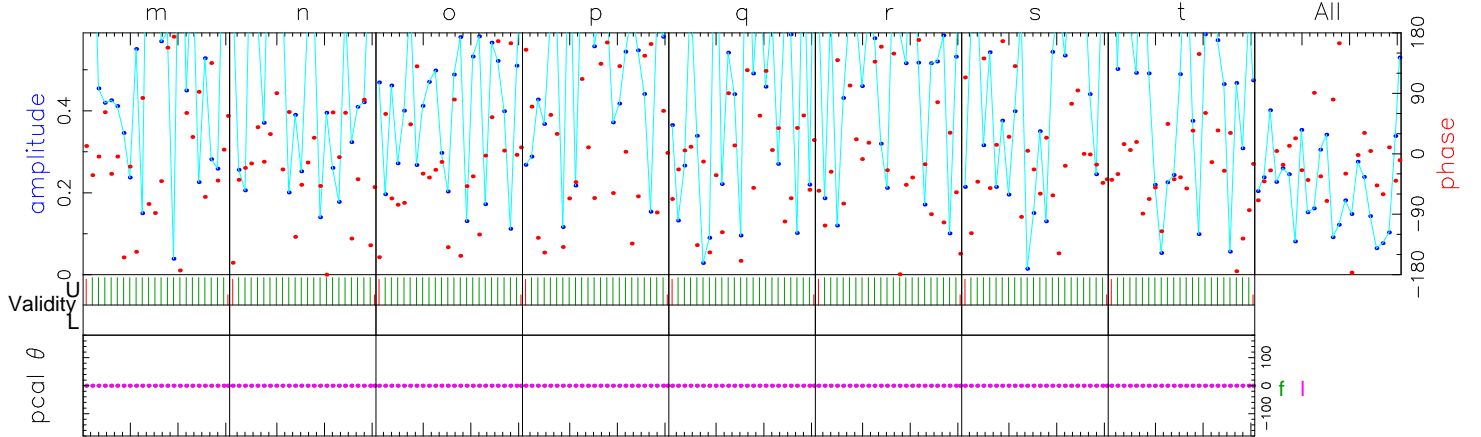


SNR 5.8
 Int time 178.984
 Amp 0.197
 Phase -20.3
 PFD 6.4e-01
 Delays (us)
 SBD 0.528958
 MBD -0.002004
 Fringe rate (Hz)
 -0.701916
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180008
 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
	-37.0	1.0	-27.1	-2.6	9.2	-44.7	-32.4	-25.0	Phase	-20.3
	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.4	Ampl.	0.2
	212.7	106.0	417.7	27.2	180.0	69.4	121.3	392.3	Sbd box	392.4
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) 1.19423414018E+03 Apriori delay (usec) 1.19370489416E+03 Resid mbdelay (usec) -2.00397E-03 +/- 1.9E-04
 Sband delay (usec) 1.19423385216E+03 Apriori clock (usec) 8.3574429E+00 Resid sbdelay (usec) 5.28958E-01 +/- 1.5E-03
 Phase delay (usec) 1.19370489351E+03 Apriori clockrate (us/s) 2.8422100E-07 Resid phdelay (usec) -6.53073E-07 +/- 6.4E-07
 Delay rate (us/s) -1.74488396781E-02 Apriori rate (us/s) -1.74406911280E-02 Resid rate (us/s) -8.14855E-06 +/- 6.2E-09
 Total phase (deg) 189.6 Apriori accel (us/s/s) -6.58612568781E-06 Resid phase (deg) -20.3 +/- 19.9

RMS Theor. Amplitude 0.197 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.6 48.7 Search (1024X32) 0.152 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 74.4 85.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 21.3 28.1 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 (%) 48.6 49.1 Inc. frq. avg. 0.180 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

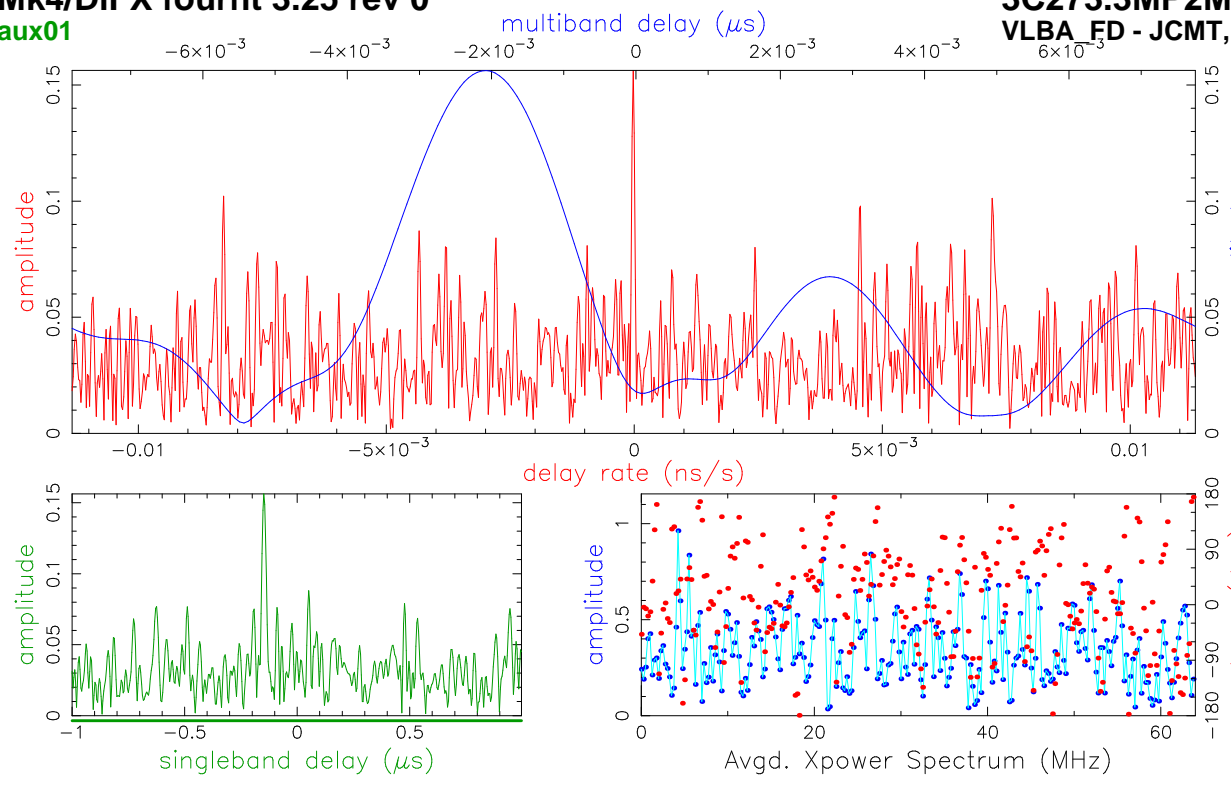
f: az 138.7 el 54.1 pa -34.5 l: az 139.8 el 48.9 pa -31.4 u,v (fr/asec) 96.396 -681.732 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fl..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fl.W.278.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fL

VLBA_FD - JCMT, fgroup W, pol LL

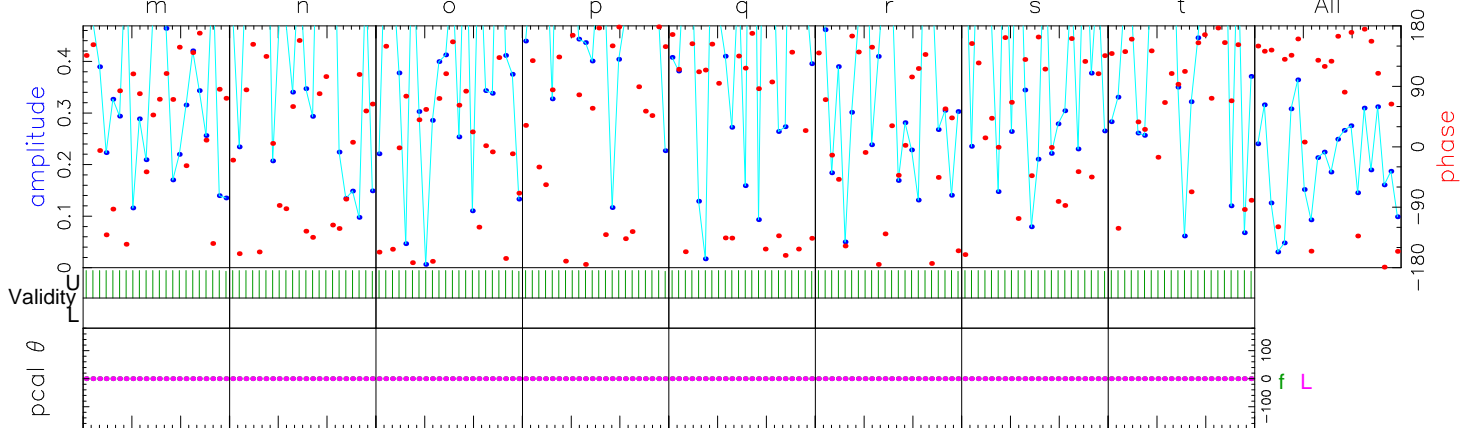


Fringe quality 0

SNR 5.7
 Int time 179.983
 Amp 0.156
 Phase 144.1
 PFD 7.0e-01
 Delays (us)
 SBD -0.148088
 MBD -0.002094
 Fringe rate (Hz)
 -0.002104
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175924
 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	
	119.2	154.2	138.2	143.3	163.8	122.9	140.8	134.5	Phase	144.1	
	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	Ampl.	0.1	
	145.2	468.3	446.2	489.8	218.9	130.9	269.9	96.2	Sbd box	219.1	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
f	0	0	0	0	0	0	0	0	PC freqs		
L	0	0	0	0	0	0	0	0	PC freqs		
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
L	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec) (SBD)	1.15179413823E+04		Apriori delay (usec)		1.15180841011E+04		Resid mbdelay (usec)		-2.09377E-03	+/- 1.9E-04	
Sband delay (usec)	1.15179360128E+04		Apriori clock (usec)		2.7610779E-01		Resid sbdelay (usec)		-1.48088E-01	+/- 1.5E-03	
Phase delay (usec)	1.15180841057E+04		Apriori clockrate (us/s)		3.8630687E-07		Resid phdelay (usec)		4.64700E-06	+/- 6.4E-07	
Delay rate (us/s)	-8.93806171348E-01		Apriori rate (us/s)		-8.93806146918E-01		Resid rate (us/s)		-2.44296E-08	+/- 6.2E-09	
Total phase (deg)	312.0		Apriori accel (us/s/s)		-6.06024212589E-05		Resid phase (deg)		144.1	+/- 20.0	
	RMS	Theor.	Amplitude	0.156 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	51.9	46.9	Search (1024X32)	0.155		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	65.1	81.8	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	16.8	28.3	Inc. seg. avg.	0.153		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	51.3	49.3	Inc. frq. avg.	0.144		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
f: az 138.7 el 54.1 pa -34.5	L: az 93.6 el 15.4 pa -70.0		u,v (fr/asec) 5091.083 1343.559						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.85.3MP2MB								

Mk4/DiFX fourfit 3.25 rev 0

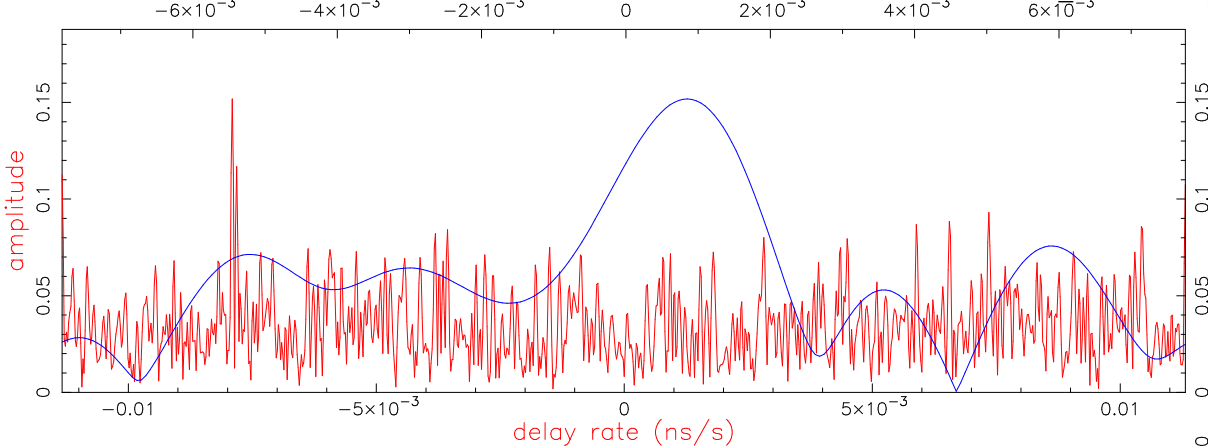
aux01

3C273.3MP2MB, No0707, fL

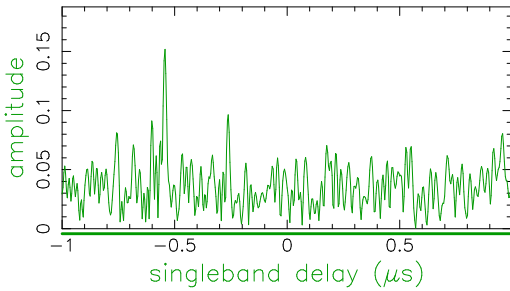
VLBA_FD - JCMT, fgroup W, pol RR

multiband delay (μ s)

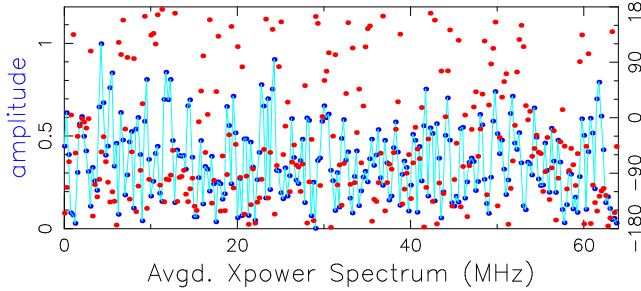
Fringe quality 0



SNR 5.6
 Int time 179.983
 Amp 0.188
 Phase 101.5
 PFD 9.4e-01
 Delays (us)
 SBD -0.543736
 MBD 0.000828
 Fringe rate (Hz)
 -0.681410
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

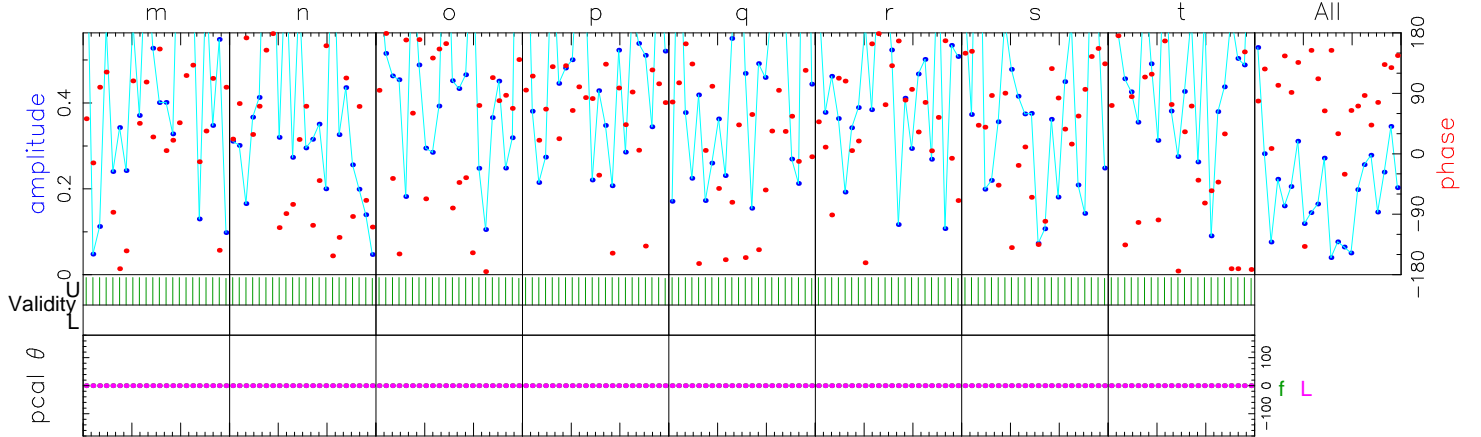


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175927
 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
	85.9	-168.8	144.9	91.5	82.7	68.6	83.1	152.5	Phase	101.5
	0.3	0.1	0.2	0.4	0.2	0.2	0.2	0.2	Ampl.	0.2
	426.1	303.2	474.0	118.7	17.0	261.2	81.0	111.4	Sbd box	117.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.15175380543E+04		Apriori delay (usec)		1.15180841011E+04		Resid mbdelay (usec)		8.28181E-04	+/- 1.9E-04
Sband delay (usec)	1.15175403656E+04		Apriori clock (usec)		2.7610779E-01		Resid sbdelay (usec)		-5.43736E-01	+/- 1.5E-03
Phase delay (usec)	1.15180841043E+04		Apriori clockrate (us/s)		3.8630687E-07		Resid phdelay (usec)		3.27181E-06	+/- 6.6E-07
Delay rate (us/s)	-8.93814057416E-01		Apriori rate (us/s)		-8.93806146918E-01		Resid rate (us/s)		-7.91050E-06	+/- 6.4E-09
Total phase (deg)			269.4		Apriori accel (us/s/s)		-6.06024212589E-05		101.5	+/- 20.5

ph/seg (deg) 55.4 48.1 Search (1024X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.8 83.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.4 29.0 Inc. seg. avg. 0.182 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.9 50.6 Inc. frq. avg. 0.197 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5091.083 1343.559 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.95.3MP2MB

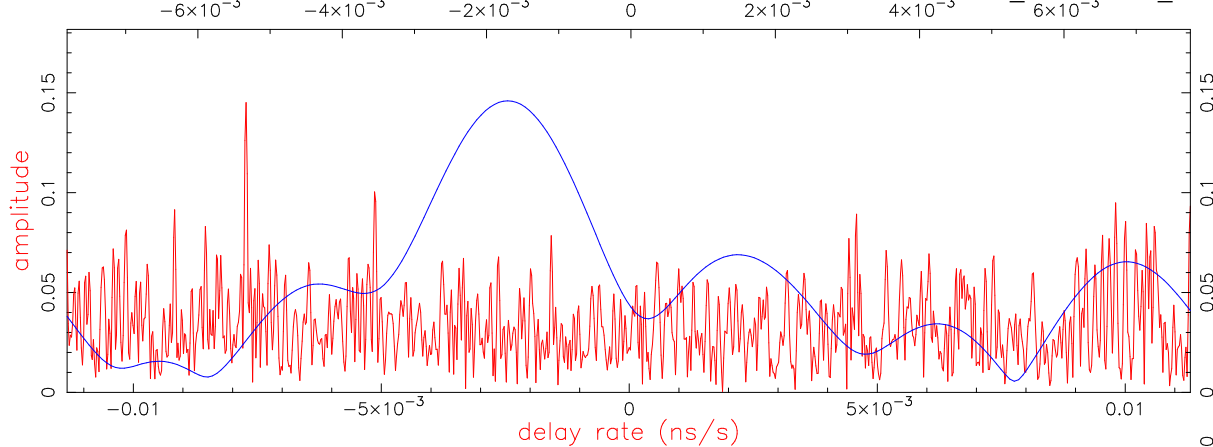
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fm

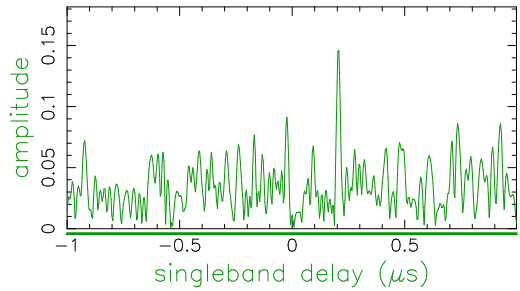
VLBA_FD - VLBA_MK, fgroup W, pol LR

multiband delay (μ s)

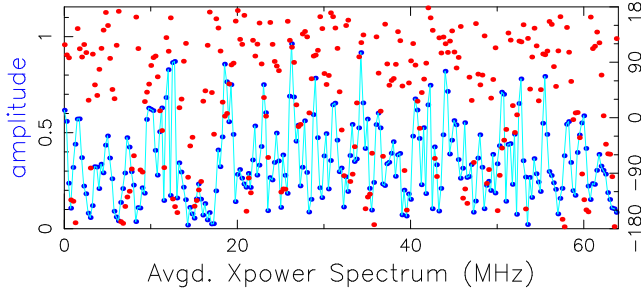


Fringe quality 0

SNR 5.5
 Int time 179.983
 Amp 0.182
 Phase -31.5
 PFD 1.0e+00
 Delays (us)
 SBD 0.205231
 MBD -0.001580
 Fringe rate (Hz)
 -0.667354
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

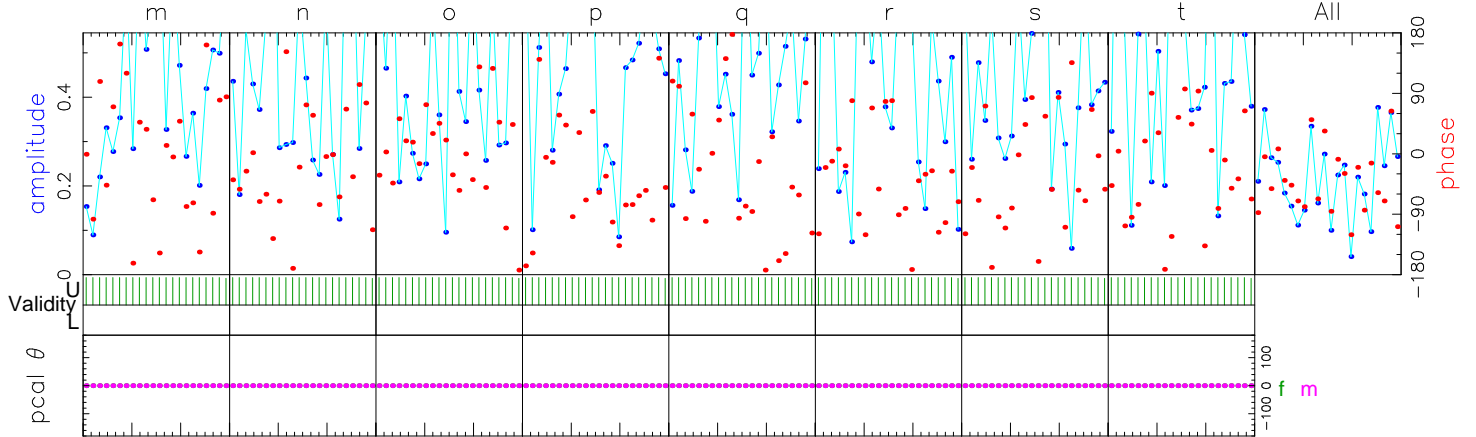


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175929
 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
	46.7	-33.4	-0.6	-49.6	-90.2	-54.5	-34.6	-8.1	Phase	-31.5
	0.1	0.2	0.3	0.2	0.2	0.3	0.1	0.3	Ampl.	0.2
	322.5	446.0	307.1	31.3	149.3	98.6	199.9	309.9	Sbd box	309.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.15101229730E+04	Apriori delay (usec)	1.15099214281E+04	Resid mbdelay (usec)	-1.58016E-03	+/-	2.0E-04
Sband delay (usec)	1.15101266591E+04	Apriori clock (usec)	-4.8618507E-01	Resid sbdelay (usec)	2.05231E-01	+/-	1.6E-03
Phase delay (usec)	1.15099214271E+04	Apriori clockrate (us/s)	6.4719931E-08	Resid phdelay (usec)	-1.01498E-06	+/-	6.8E-07
Delay rate (us/s)	-8.93772323236E-01	Apriori rate (us/s)	-8.93764575915E-01	Resid rate (us/s)	-7.74732E-06	+/-	6.5E-09
Total phase (deg)	262.9	Apriori accel (us/s/s)	-6.05615868343E-05	Resid phase (deg)	-31.5	+/-	21.0

ph/seg (deg)	RMS 49.5	Theor. 49.2	Amplitude Search (1024X32)	0.182 +/- 0.033	0.146	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	77.3	85.9	Interp.	0.000	0.196	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	44.6	29.7	Inc. seg. avg.	0.183	0.183	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.5	51.8	Inc. frq. avg.	0.183	0.183	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 138.7 el 54.1 pa -34.5 m: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5090.863 1346.947 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fm.W.107.3MP2MB

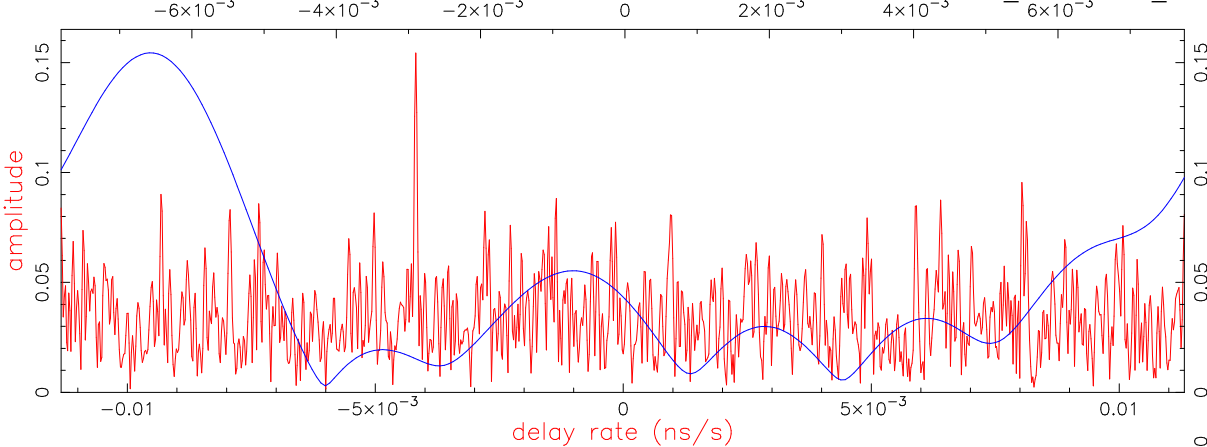
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fm

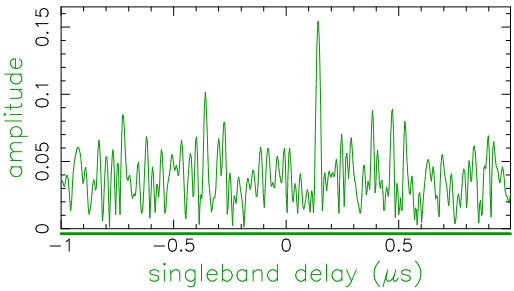
VLBA_FD - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)

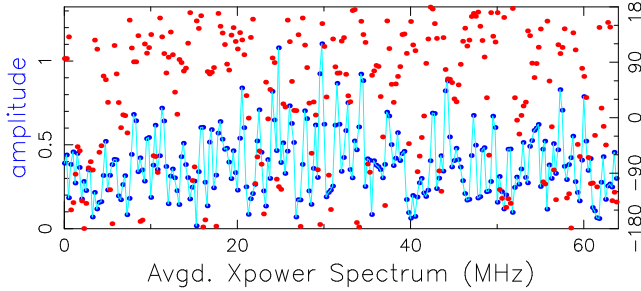


Fringe quality 0

SNR 5.7
 Int time 179.983
 Amp 0.165
 Phase 28.7
 PFD 7.3e-01
 Delays (us)
 SBD 0.142219
 MBD -0.006538
 Fringe rate (Hz)
 -0.360367
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

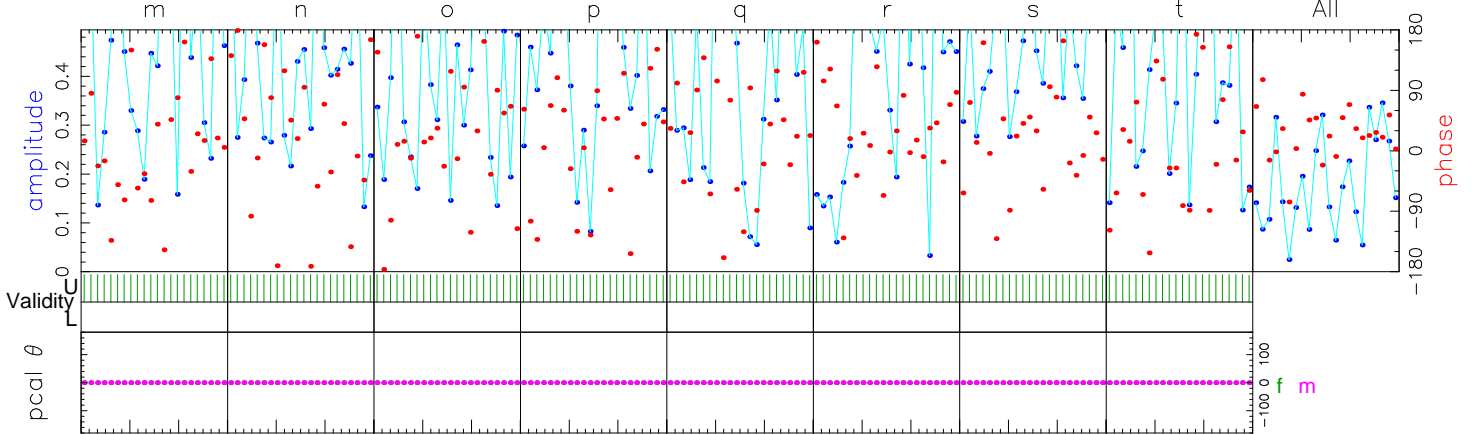


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175931
 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
	-0.3	66.8	16.0	49.1	57.5	26.3	28.0	-36.7	Phase	28.7
	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.1	Ampl.	0.2
	95.6	124.7	471.4	266.1	235.4	293.6	22.1	234.7	Sbd box	293.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.15100711400E+04	Apriori delay (usec)	1.15099214281E+04	Resid mbdelay (usec)	-6.53810E-03	+/-	1.9E-04
Sband delay (usec)	1.15100636469E+04	Apriori clock (usec)	-4.8618507E-01	Resid sbdelay (usec)	1.42219E-01	+/-	1.5E-03
Phase delay (usec)	1.15099214290E+04	Apriori clockrate (us/s)	6.4719931E-08	Resid phdelay (usec)	9.25526E-07	+/-	6.5E-07
Delay rate (us/s)	-8.93768759424E-01	Apriori rate (us/s)	-8.93764575915E-01	Resid rate (us/s)	-4.18351E-06	+/-	6.2E-09
Total phase (deg)	323.1	Apriori accel (us/s/s)	-6.05615868343E-05	Resid phase (deg)	28.7	+/-	20.0

ph/seg (deg)	RMS 38.7	Theor. 47.0	Amplitude Search (1024X32)	0.165 +/- 0.029	0.152	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	63.1	82.0	Interp.	0.000	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	36.5	28.3	Inc. seg. avg.	0.142	0.152	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	48.9	49.4	Inc. frq. avg.	0.159	0.159	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 138.7 el 54.1 pa -34.5 m: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5090.863 1346.947 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fm.W.117.3MP2MB

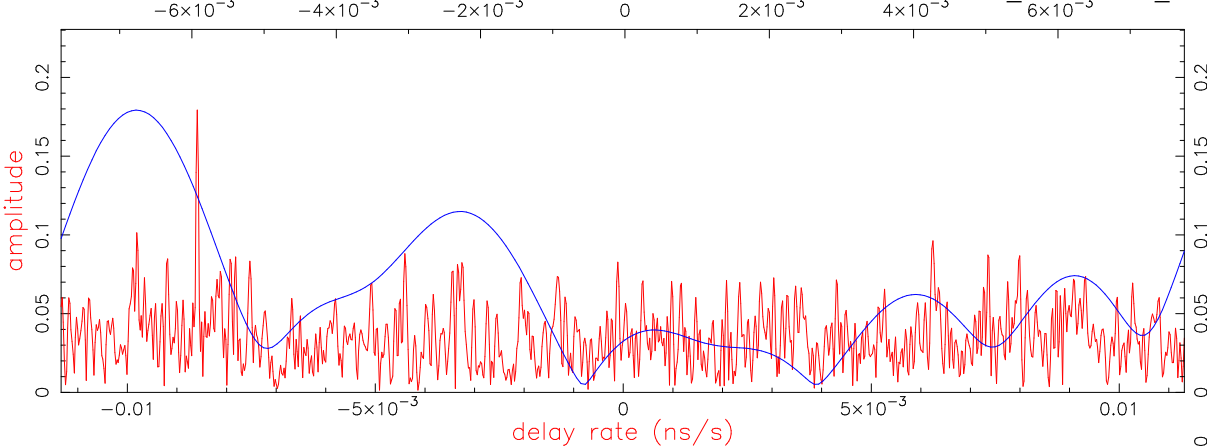
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fm

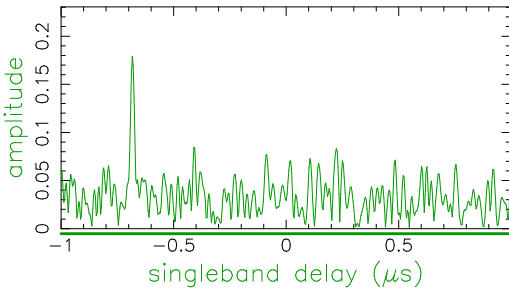
VLBA_FD - VLBA_MK, fgroup W, pol LL

multiband delay (μ s)

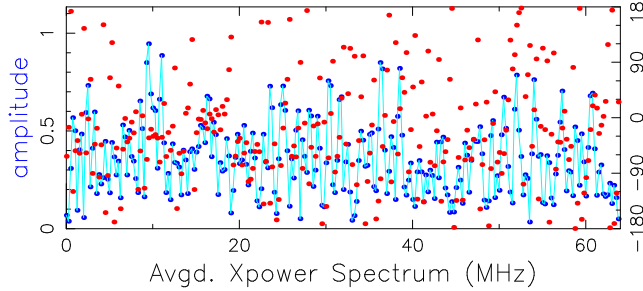


Fringe quality 0

SNR 6.6
Int time 179.983
Amp 0.230
Phase 92.8
PFD 6.1e-03
Delays (us)
SBD -0.682872
MBD -0.006762
Fringe rate (Hz)
-0.740726
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

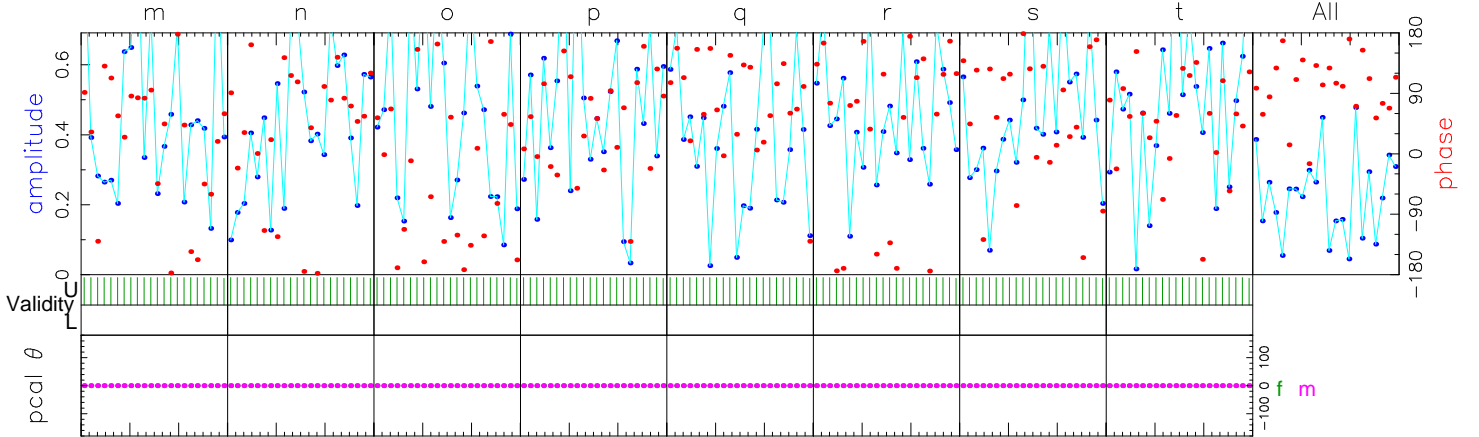


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175924
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
	79.9	107.7	-151.7	50.3	80.0	129.8	108.6	72.0	Phase	92.8
	0.3	0.3	0.1	0.2	0.3	0.4	0.2	0.4	Ampl.	0.2
	359.5	292.6	159.1	261.5	83.3	81.1	167.8	445.7	Sbd box	82.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.15092427908E+04	Apriori delay (usec)	1.15099214281E+04	Resid mbdelay (usec)	-6.76233E-03	+/-	1.6E-04
Sband delay (usec)	1.15092385559E+04	Apriori clock (usec)	-4.8618507E-01	Resid sbdelay (usec)	-6.82872E-01	+/-	1.3E-03
Phase delay (usec)	1.15099214311E+04	Apriori clockrate (us/s)	6.4719931E-08	Resid phdelay (usec)	2.99315E-06	+/-	5.6E-07
Delay rate (us/s)	-8.93773175006E-01	Apriori rate (us/s)	-8.93764575915E-01	Resid rate (us/s)	-8.59909E-06	+/-	5.4E-09
Total phase (deg)	27.2	Apriori accel (us/s/s)	-6.05615868343E-05	Resid phase (deg)	92.8	+/-	17.4

ph/seg (deg)	45.3	Theor.	40.8	Amplitude	0.230 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	71.5	Search (1024X32)	0.170	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	54.4	Inc. seg. avg.	0.234	Inc. frq. avg.	0.248	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	39.2	Inc. frq. avg.	0.248			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011	
f: az 138.7 el 54.1 pa -34.5		m: az 93.6 el 15.4 pa -70.0		u, v (fr/asec)	5090.863 1346.947	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/No0707//fm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fm.W.86.3MP2MB

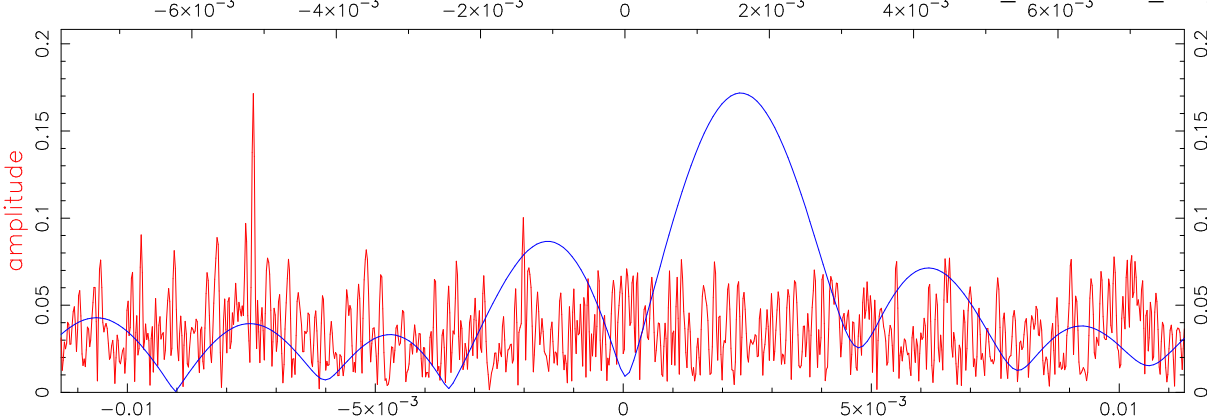
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fm

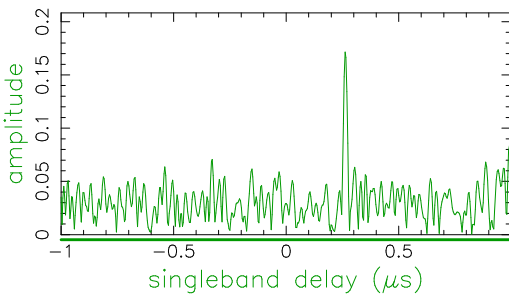
VLBA_FD - VLBA_MK, fgroup W, pol RR

multiband delay (μ s)

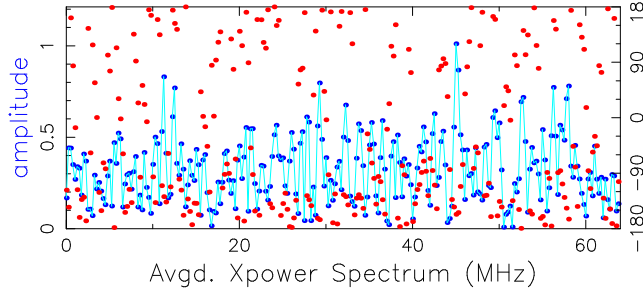


Fringe quality 0

SNR 6.3
 Int time 179.983
 Amp 0.208
 Phase -23.4
 PFD 2.9e-02
 Delays (us)
 SBD 0.262978
 MBD 0.001659
 Fringe rate (Hz)
 -0.643625
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

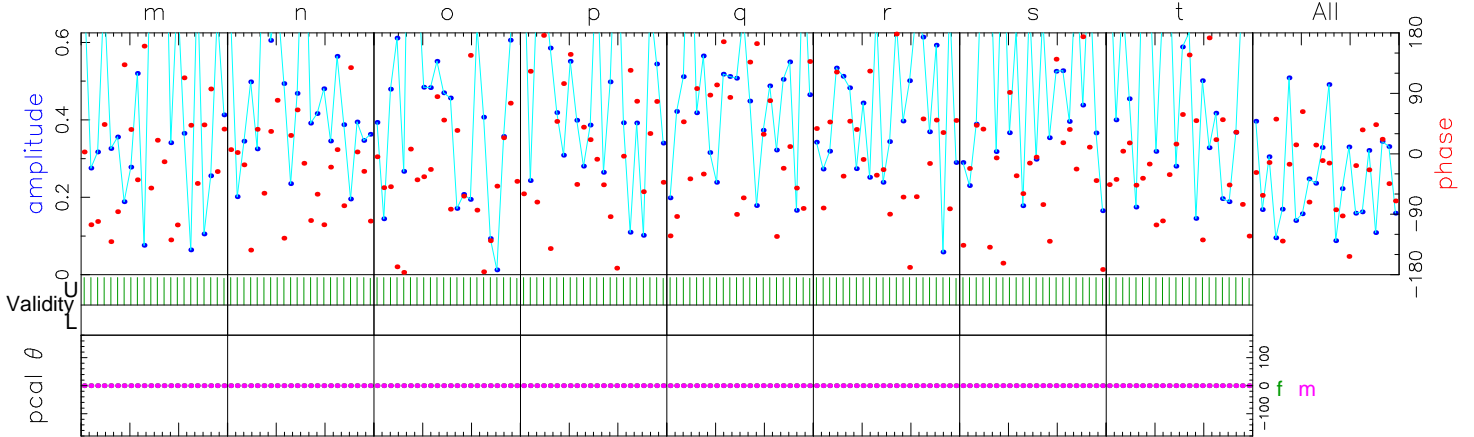


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175927
 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
	-21.9	-22.1	-21.5	-23.5	-19.4	-8.1	-24.1	-37.7	Phase	-23.4
	0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.3	Ampl.	0.2
	324.3	324.9	329.0	460.9	286.4	302.9	229.8	4.3	Sbd box	324.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.15101887124E+04	Apriori delay (usec)	1.15099214281E+04	Resid mbdelay (usec)	1.65933E-03	+/-	1.7E-04
Sband delay (usec)	1.15101844066E+04	Apriori clock (usec)	-4.8618507E-01	Resid sbdelay (usec)	2.62978E-01	+/-	1.4E-03
Phase delay (usec)	1.15099214274E+04	Apriori clockrate (us/s)	6.4719931E-08	Resid phdelay (usec)	-7.55722E-07	+/-	5.8E-07
Delay rate (us/s)	-8.93772047763E-01	Apriori rate (us/s)	-8.93764575915E-01	Resid rate (us/s)	-7.47185E-06	+/-	5.6E-09
Total phase (deg)	270.9	Apriori accel (us/s/s)	-6.05615868343E-05	Resid phase (deg)	-23.4	+/-	18.1

ph/seg (deg)	RMS 56.0	Theor. 42.3	Amplitude Search (1024X32)	0.208 +/- 0.033	0.162	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.5	73.9	Interp.	0.000	0.235	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	8.8	25.5	Inc. seg. avg.	0.235	0.190	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	38.5	44.6	Inc. frq. avg.	0.190		Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 138.7 el 54.1 pa -34.5 m: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5090.863 1346.947 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fm.W.96.3MP2MB

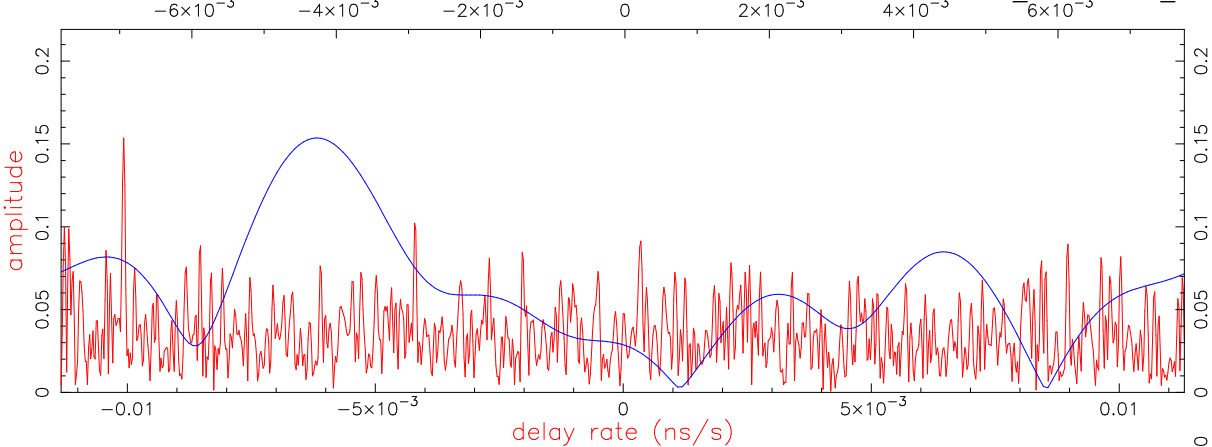
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fn

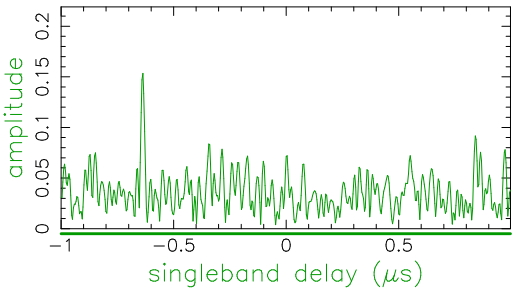
VLBA_FD - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)

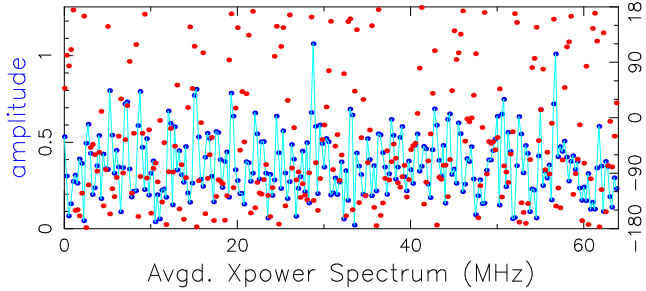


Fringe quality 0

SNR 5.7
 Int time 178.863
 Amp 0.219
 Phase 152.5
 PFD 8.6e-01
 Delays (us)
 SBD -0.637752
 MBD -0.004307
 Fringe rate (Hz)
 -0.868758
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

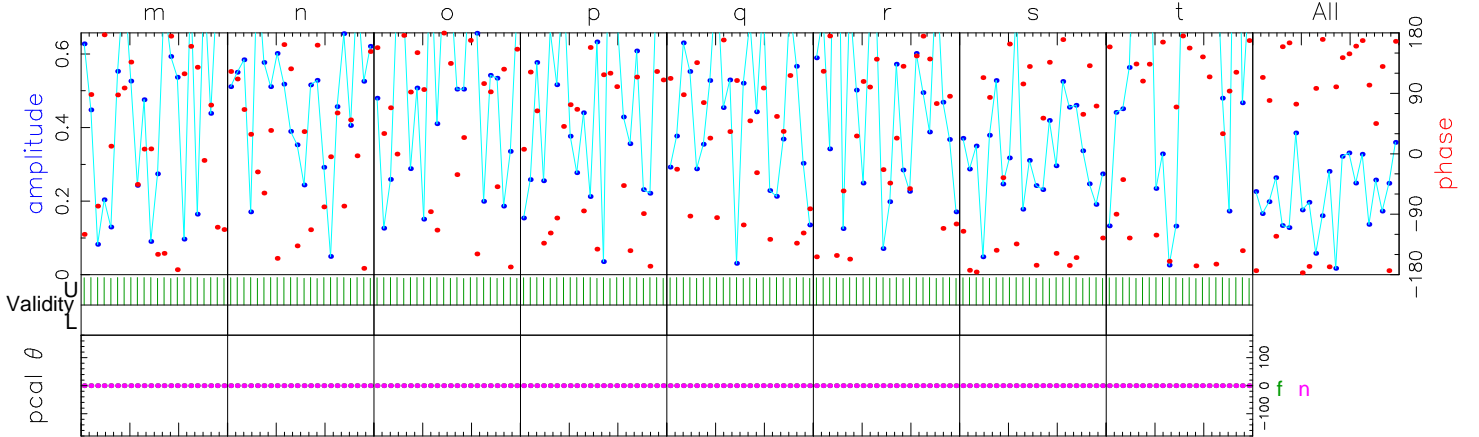


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175928
 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		
f	0	0	0	0	0	0	0	0		
n	0	0	0	0	0	0	0	0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

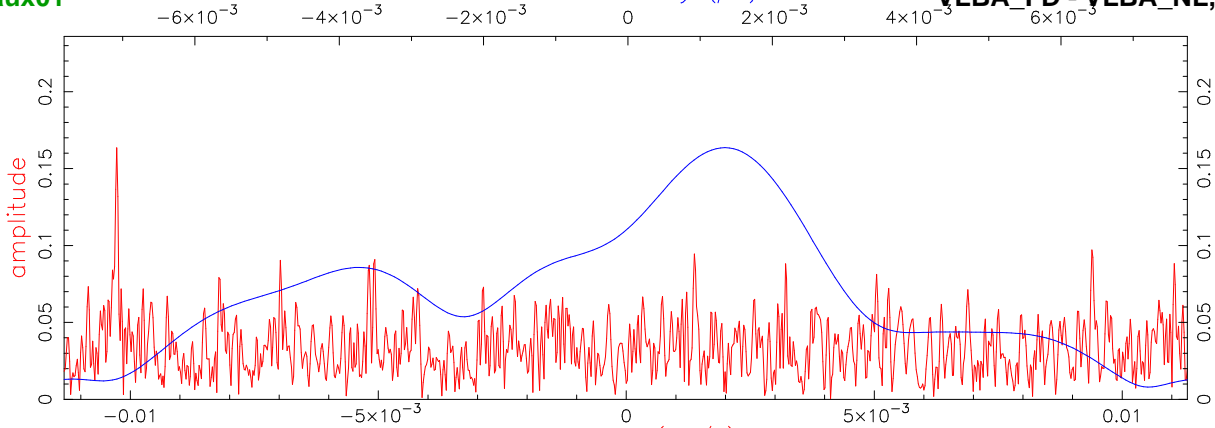
Group delay (usec) (SBD)	1.18121707250E+03	Apriori delay (usec)	1.18186200434E+03	Resid mbdelay (usec)	-4.30684E-03	+/-	1.9E-04
Sband delay (usec)	1.18122425209E+03	Apriori clock (usec)	3.4442902E-01	Resid sbdelay (usec)	-6.37752E-01	+/-	1.5E-03
Phase delay (usec)	1.18186200926E+03	Apriori clockrate (us/s)	-2.4704002E-07	Resid phdelay (usec)	4.91763E-06	+/-	6.5E-07
Delay rate (us/s)	3.07301745779E-01	Apriori rate (us/s)	3.07311831203E-01	Resid rate (us/s)	-1.00854E-05	+/-	6.3E-09
Total phase (deg)	171.9	Apriori accel (us/s/s)	-6.87280970472E-06	Resid phase (deg)	152.5	+/-	20.3

ph/seg (deg)	46.8	Theor.	47.6	Amplitude	0.219 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.9	Search (1024X32)	0.145	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	45.1	Inc. seg. avg.	0.230	Inc. seg. avg.	0.230	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	70.3	Inc. frq. avg.	0.213	Inc. frq. avg.	0.213	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
f: az 138.7 el 54.1 pa -34.5		n: az 164.0 el 49.1 pa -11.6		u, v (fr/asec)	-1764.867 -1402.430	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

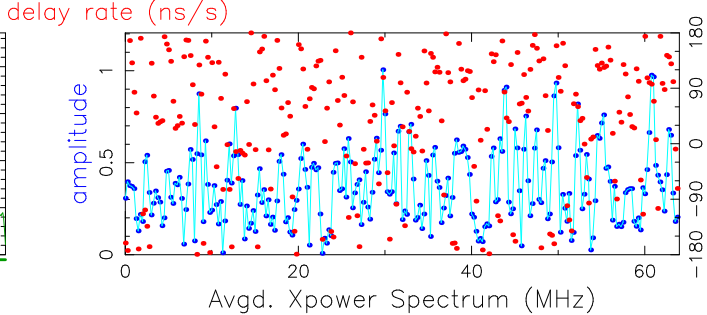
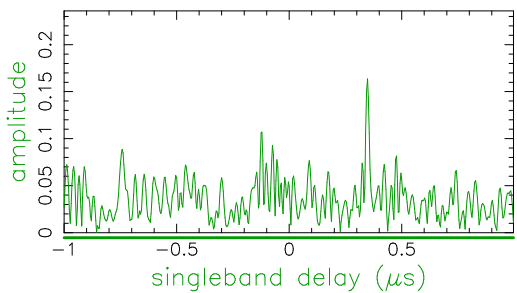
simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/fn..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/fn.W.100.3MP2MB

multiband delay (μ s)

Fringe quality 0

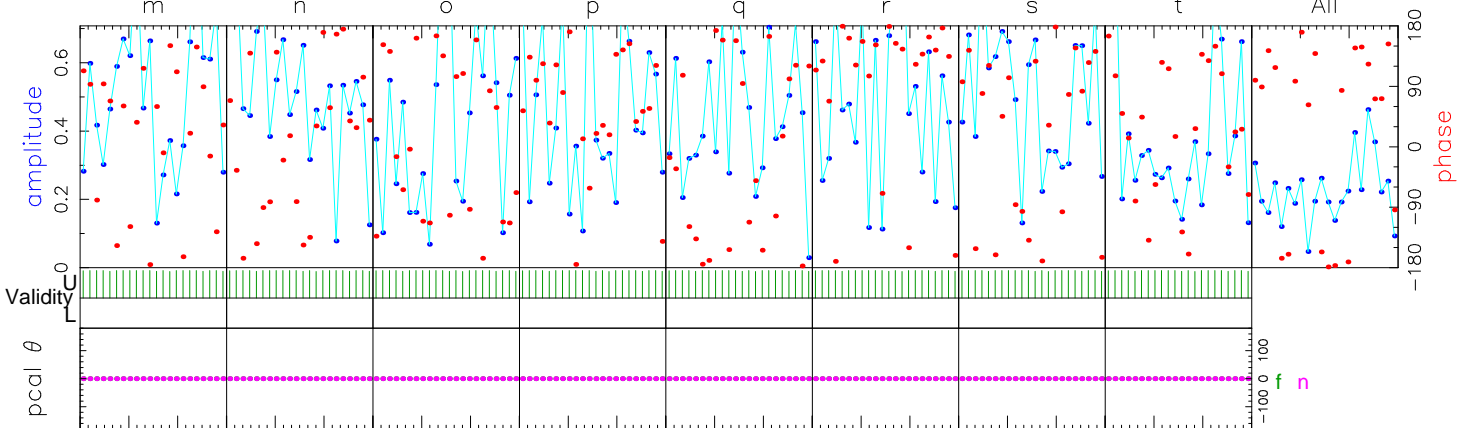


SNR 6.0
Int time 178.863
Amp 0.236
Phase 137.1
PFD 2.4e-01
Delays (us)
SBD 0.347213
MBD 0.001315
Fringe rate (Hz)
-0.886061
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175930
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		
f	0	0	0	0	0	0	0	0		
n	0	0	0	0	0	0	0	0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec) (SBD)	1.18220706885E+03					1.18186200434E+03			1.31451E-03	+/- 1.8E-04
Sband delay (usec)	1.18220921734E+03					3.4442902E-01			3.47213E-01	+/- 1.4E-03
Phase delay (usec)	1.18186200876E+03					-2.4704002E-07			4.42091E-06	+/- 6.2E-07
Delay rate (us/s)	3.07301544912E-01					3.07311831203E-01			-1.02863E-05	+/- 5.9E-09
Total phase (deg)			156.5			-6.87280970472E-06			137.1	+/- 19.1
ph/seg (deg)	51.9	44.9								
amp/seg (%)	68.9	78.3								
ph/frq (deg)	77.1	27.0								
amp/frq (%)	71.8	47.2								
f: az 138.7 el 54.1 pa -34.5										
n: az 164.0 el 49.1 pa -11.6										
u,v (fr/asec) -1764.867 -1402.430										

Group delay (usec) (SBD) 1.18220706885E+03 Apriori delay (usec) 1.18186200434E+03 Resid mbdelay (usec) 1.31451E-03 +/- 1.8E-04
 Sband delay (usec) 1.18220921734E+03 Apriori clock (usec) 0.154 Pcal rate: 0.000E+00, 0.000E+00 (us/s) Resid sbdelay (usec) 3.47213E-01 +/- 1.4E-03
 Phase delay (usec) 1.18186200876E+03 Apriori clockrate (us/s) -2.4704002E-07 Resid phdelay (usec) 4.42091E-06 +/- 6.2E-07
 Delay rate (us/s) 3.07301544912E-01 Apriori rate (us/s) 3.07311831203E-01 Resid rate (us/s) -1.02863E-05 +/- 5.9E-09
 Total phase (deg) 156.5 Apriori accel (us/s/s) -6.87280970472E-06 Resid phase (deg) 137.1 +/- 19.1
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

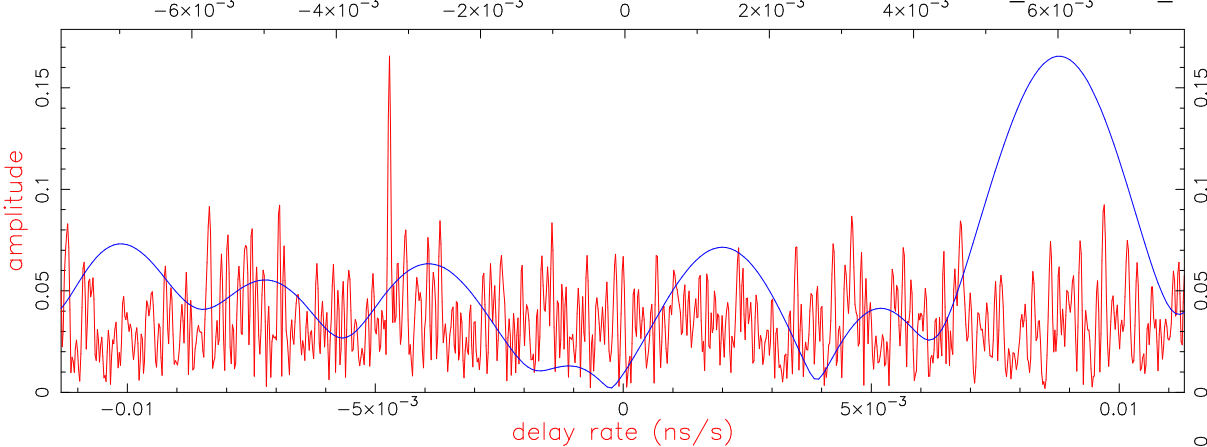
aux01

3C273.3MP2MB, No0707, fn

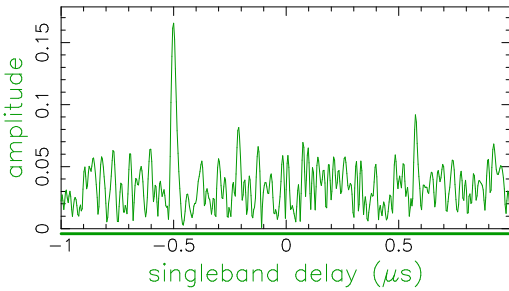
VLBA_FD - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)

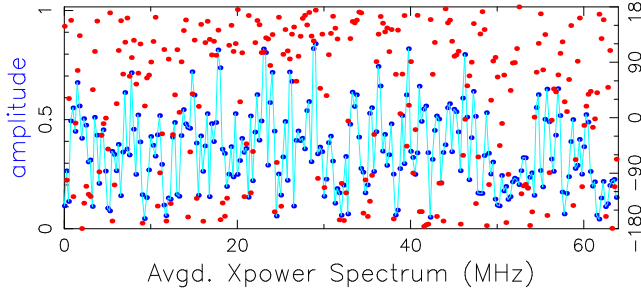
Fringe quality 0



SNR 6.1
 Int time 178.863
 Amp 0.179
 Phase 59.7
 PFD 1.4e-01
 Delays (us)
 SBD -0.501131
 MBD 0.006024
 Fringe rate (Hz)
 -0.406015
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

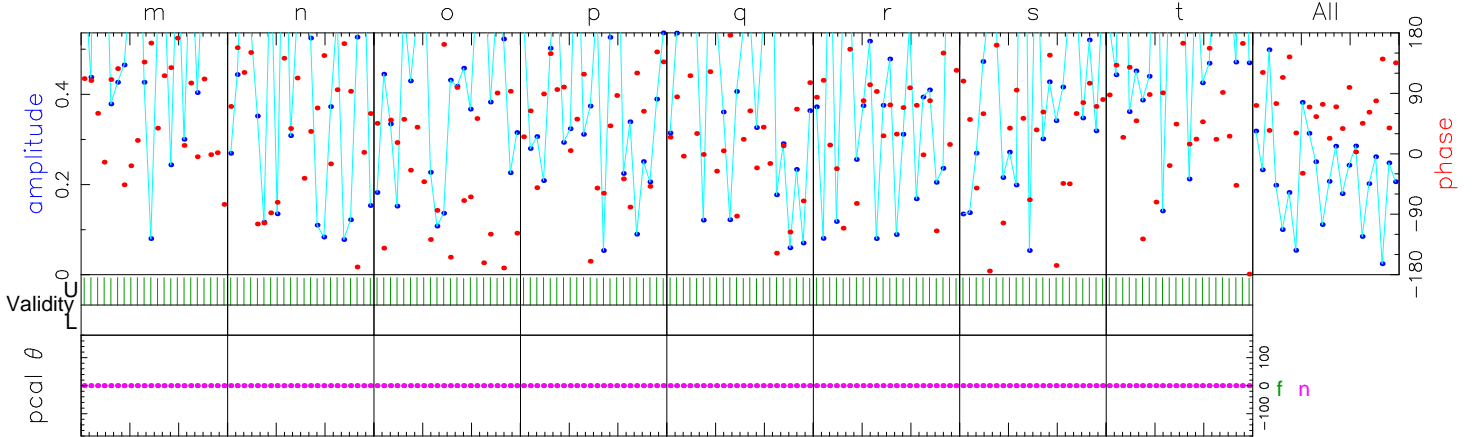


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175932
 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		
f	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.18136802836E+03	Apriori delay (usec)		1.18186200434E+03	Resid mbdelay (usec)		6.02402E-03	+/- 1.8E-04	
Sband delay (usec)	1.18136087334E+03	Apriori clock (usec)		3.4442902E-01	Resid sbdelay (usec)		-5.01131E-01	+/- 1.4E-03	
Phase delay (usec)	1.18186200626E+03	Apriori clockrate (us/s)		-2.4704002E-07	Resid phdelay (usec)		1.92518E-06	+/- 6.1E-07	
Delay rate (us/s)	3.07307117768E-01	Apriori rate (us/s)		3.07311831203E-01	Resid rate (us/s)		-4.71343E-06	+/- 5.8E-09	
Total phase (deg)	79.1		Apriori accel (us/s/s)		-6.87280970472E-06	Resid phase (deg)		59.7	+/- 18.8

ph/seg (deg)	RMS 44.7	Theor. 44.2	Amplitude Search (1024X32)	0.179 +/- 0.029	0.163	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	72.2	77.1	Interp.	0.000	0.179	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	37.7	26.6	Inc. seg. avg.	0.184	0.170	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	45.9	46.5	Inc. frq. avg.	0.170	0.170	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011		
f: az 138.7 el 54.1 pa -34.5		n: az 164.0 el 49.1 pa -11.6		u,v (fr/asec) -1764.867 -1402.430		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/No0707/fn..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/fn.W.123.3MP2MB simultaneous interpolator

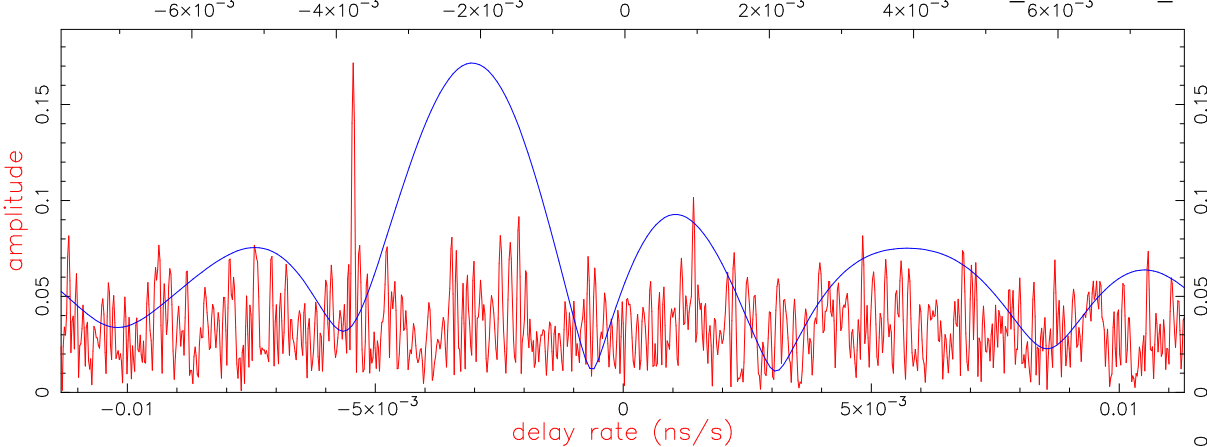
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fn

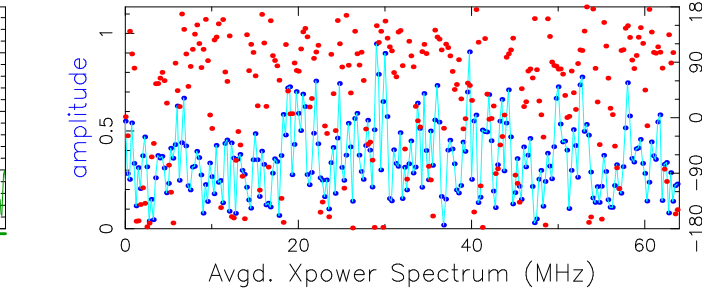
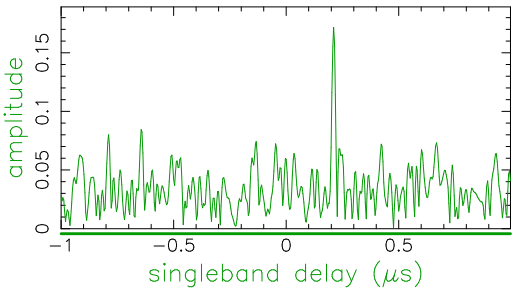
VLBA_FD - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



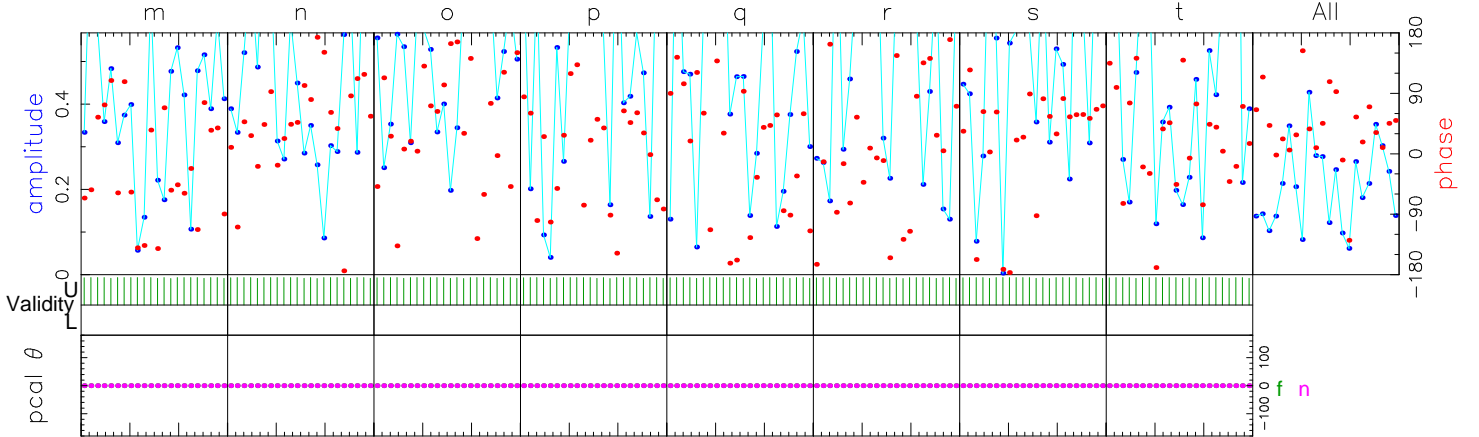
Fringe quality 0

SNR 6.3
 Int time 178.863
 Amp 0.189
 Phase 38.5
 PFD 4.5e-02
 Delays (us)
 SBD 0.211102
 MBD -0.002118
 Fringe rate (Hz)
 -0.470028
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175934
 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
	-10.8	62.0	56.6	17.6	67.5	-4.1	57.0	19.7	Phase	38.5
	0.2	0.3	0.1	0.1	0.1	0.1	0.4	0.3	Ampl.	0.2
	366.8	310.5	264.4	177.7	9.2	410.7	310.5	143.3	Sbd box	311.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.18207863650E+03	Apriori delay (usec)	1.18186200434E+03	Resid mbdelay (usec)	-2.11784E-03	+/-	1.7E-04
Sband delay (usec)	1.18207310634E+03	Apriori clock (usec)	3.4442902E-01	Resid sbdelay (usec)	2.11102E-01	+/-	1.4E-03
Phase delay (usec)	1.18186200558E+03	Apriori clockrate (us/s)	-2.4704002E-07	Resid phdelay (usec)	1.24277E-06	+/-	5.9E-07
Delay rate (us/s)	3.07306374649E-01	Apriori rate (us/s)	3.07311831203E-01	Resid rate (us/s)	-5.45655E-06	+/-	5.7E-09
Total phase (deg)		Apriori accel (us/s/s)	-6.87280970472E-06	Resid phase (deg)	38.5	+/-	18.3

ph/seg (deg)	54.2	Theor.	42.8	Amplitude	0.189 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	59.8	Search (1024X32)	0.161	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	34.4	Inc. seg. avg.	0.180	Inc. frq. avg.	0.193	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	56.4	Inc. frq. avg.	0.193			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	

f: az 138.7 el 54.1 pa -34.5 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -1764.867 -1402.430 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/fn..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/fn.W.131.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

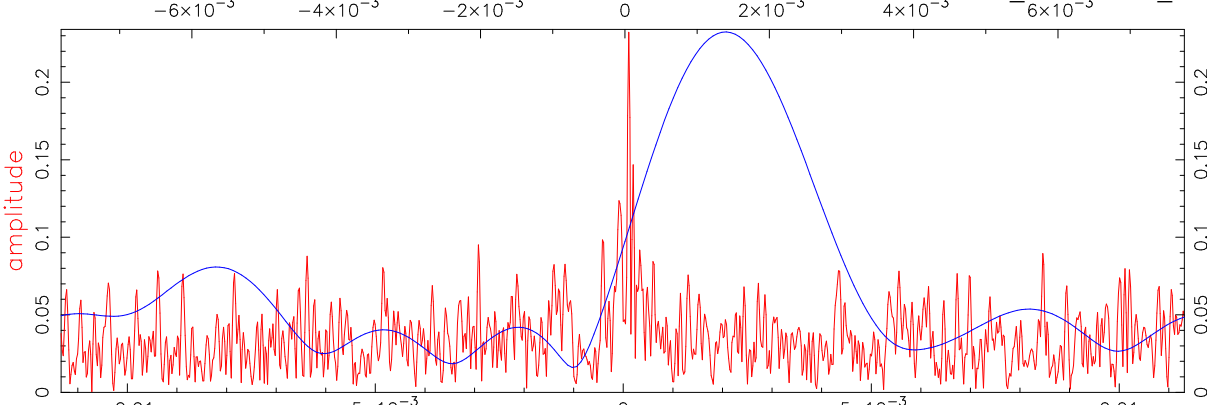
aux01

3C273.3MP2MB, No0707, fo

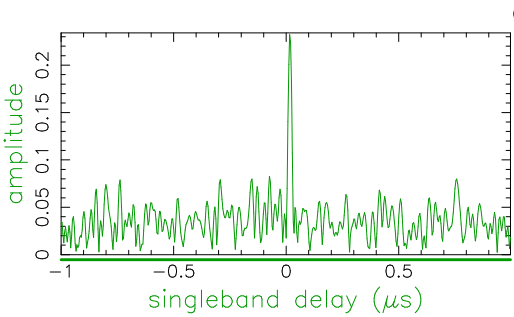
VLBA_FD - VLBA_OV, fgroup W, pol LL

multiband delay (μ s)

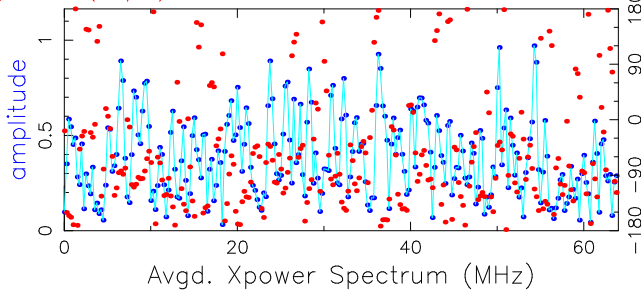
Fringe quality 9



SNR 8.5
 Int time 175.882
 Amp 0.234
 Phase 73.4
 PFD 3.8e-09
 Delays (us)
 SBD 0.016786
 MBD 0.001441
 Fringe rate (Hz) 0.010174
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

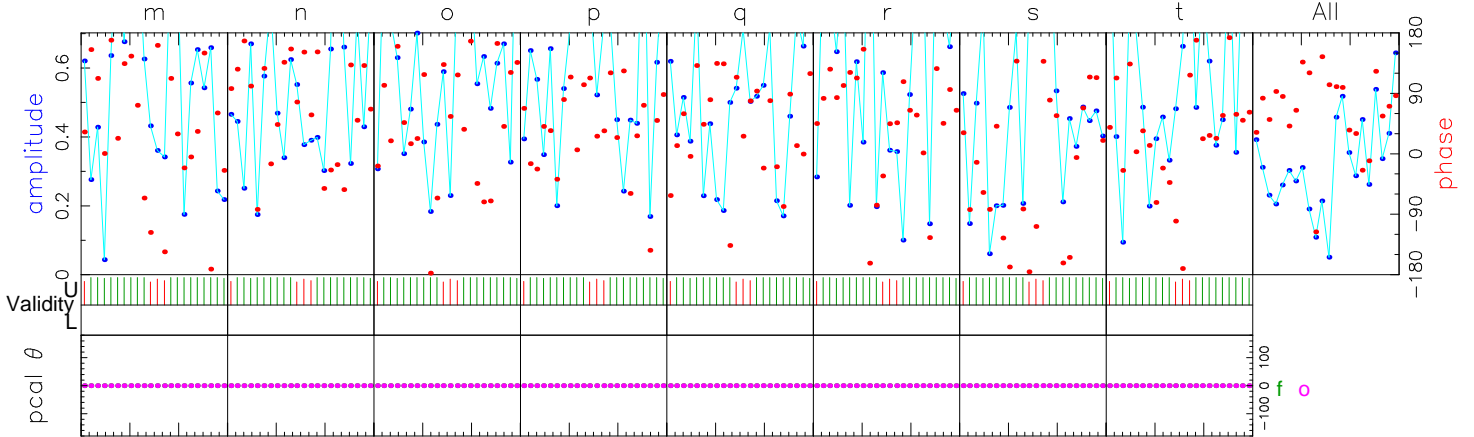


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175928
 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	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0		
f	0	0	0	0	0	0	0	0		
o	0	0	0	0	0	0	0	0		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	3.25542205952E+03	Apriori delay (usec)	3.25540499334E+03	Resid mbdelay (usec)	1.44119E-03	+/-	1.3E-04
Sband delay (usec)	3.25542177934E+03	Apriori clock (usec)	-2.4996143E+01	Resid sbdelay (usec)	1.67860E-02	+/-	1.0E-03
Phase delay (usec)	3.25540499570E+03	Apriori clockrate (us/s)	-4.3105211E-07	Resid phdelay (usec)	2.36539E-06	+/-	4.4E-07
Delay rate (us/s)	-2.30317496021E-01	Apriori rate (us/s)	-2.30317614129E-01	Resid rate (us/s)	1.18108E-07	+/-	4.2E-09
Total phase (deg)	118.8	Apriori accel (us/s/s)	-1.78033367963E-05	Resid phase (deg)	73.4	+/-	13.5

ph/seg (deg)	56.3	RMS	31.5	Theor.	Amplitude	0.234 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.1	Search (1024X32)	0.225	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	21.1	Inc. seg. avg.	0.281	Inc. frq. avg.	0.229	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	39.4	Inc. frq. avg.	0.229	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
f: az 138.7 el 54.1 pa -34.5	o: az 127.0 el 40.9 pa -39.4	u, v (fr/asec)	1310.443 -892.129	simultaneous interpolator				ion window (TEC)	0.00	0.00

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fo.W.102.3MP2MB

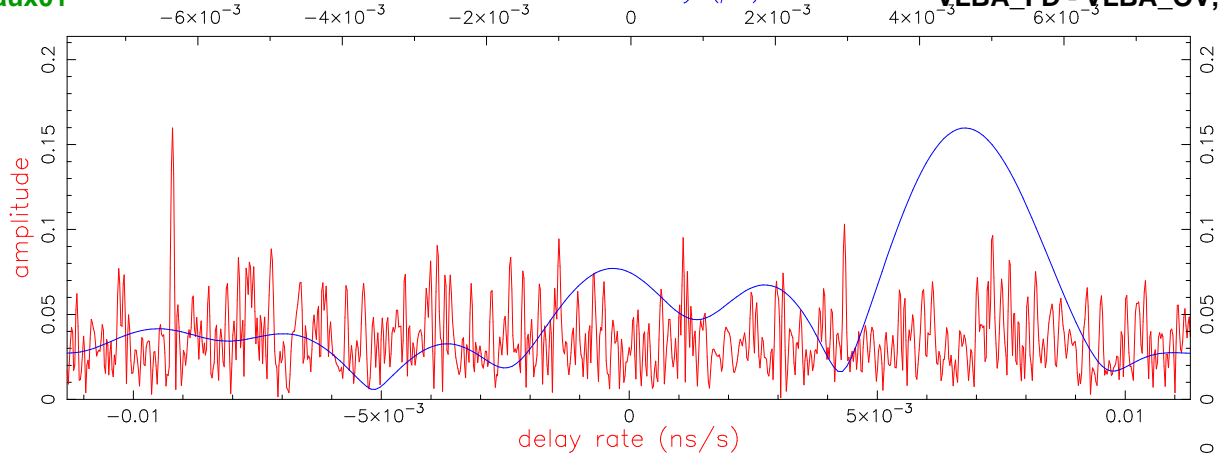
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fo

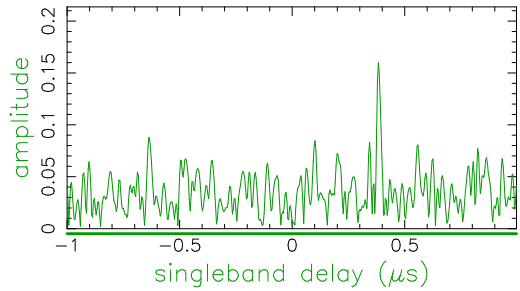
VLBA_FD - VLBA_OV, fgroup W, pol RR

multiband delay (μ s)

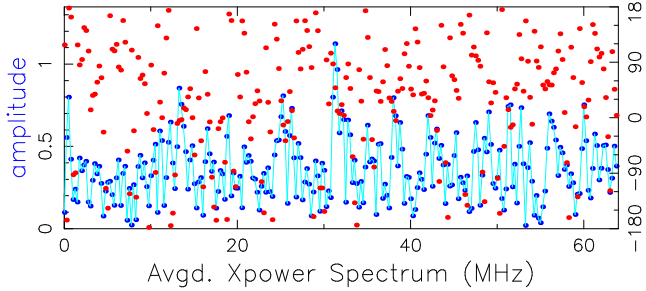


Fringe quality 0

SNR 5.8
 Int time 175.881
 Amp 0.214
 Phase 102.7
 PFD 5.6e-01
 Delays (us)
 SBD 0.383368
 MBD 0.004634
 Fringe rate (Hz)
 -0.794810
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

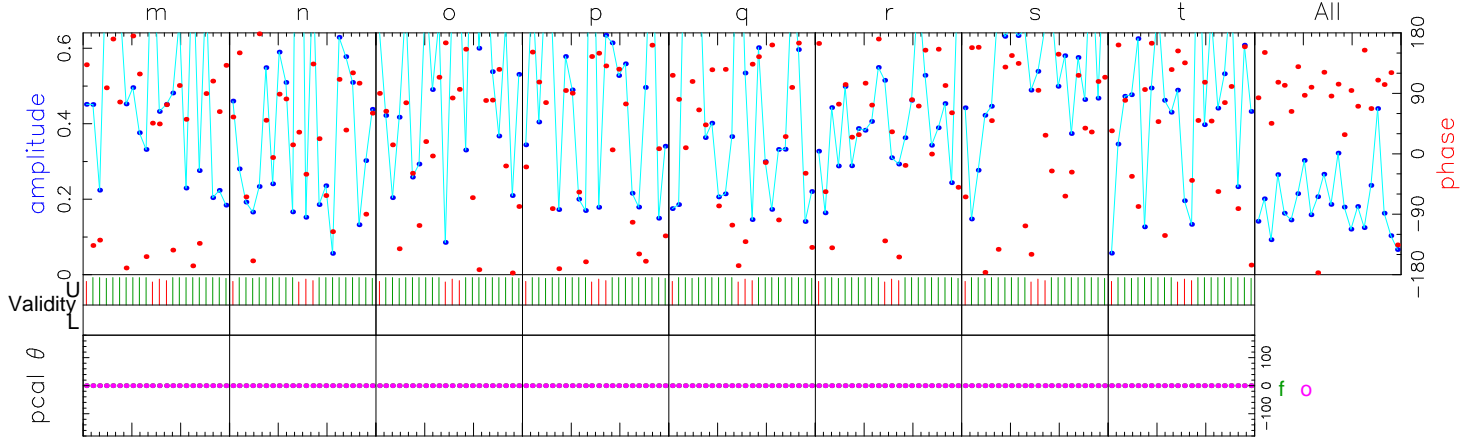


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175930
 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	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0		
f	0	0	0	0	0	0	0	0		
o	0	0	0	0	0	0	0	0		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	3.25578462760E+03	Apriori delay (usec)	3.25540499334E+03	Resid mbdelay (usec)	4.63426E-03	+/-	1.9E-04
Sband delay (usec)	3.25578836184E+03	Apriori clock (usec)	-2.4996143E+01	Resid sbdelay (usec)	3.83368E-01	+/-	1.5E-03
Phase delay (usec)	3.25540499665E+03	Apriori clockrate (us/s)	-4.3105211E-07	Resid phdelay (usec)	3.31166E-06	+/-	6.4E-07
Delay rate (us/s)	-2.30326841080E-01	Apriori rate (us/s)	-2.30317614129E-01	Resid rate (us/s)	-9.22695E-06	+/-	6.2E-09
Total phase (deg)	148.1	Apriori accel (us/s/s)	-1.78033367963E-05	Resid phase (deg)	102.7	+/-	19.7

ph/seg (deg)	43.6	Theor.	46.0	Amplitude	0.214 +/- 0.037	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	56.6	Search (1024X32)	0.156	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	27.9	Inc. seg. avg.	0.195	Inc. frq. avg.	0.212	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	31.1	Inc. frq. avg.	0.212			Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011	
f: az 138.7 el 54.1 pa -34.5		o: az 127.0 el 40.9 pa -39.4		u, v (fr/asec)	1310.443 -892.129	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/No0707//fo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fo.W.115.3MP2MB

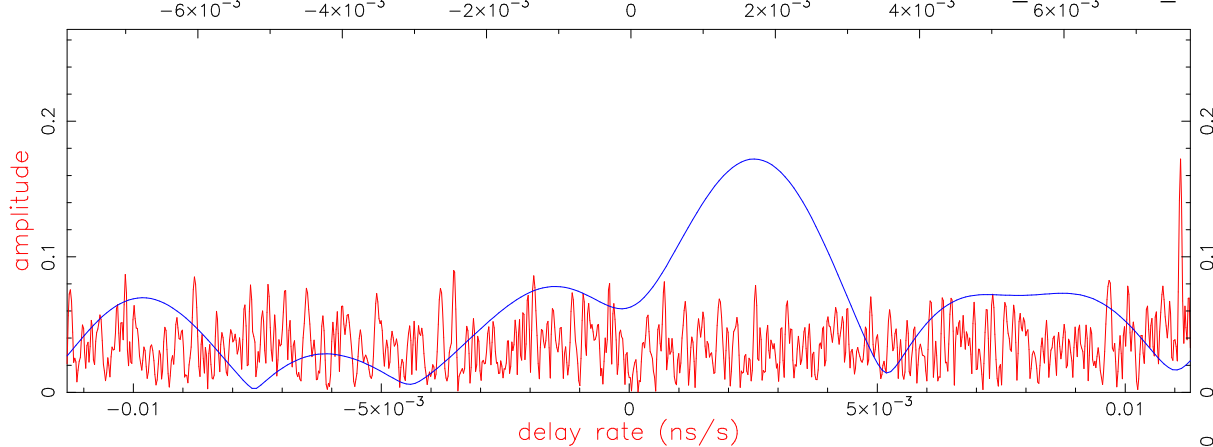
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fo

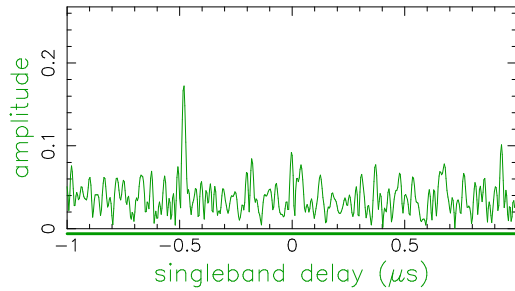
VLBA_FD - VLBA_OV, fgroup W, pol LR

multiband delay (μ s)

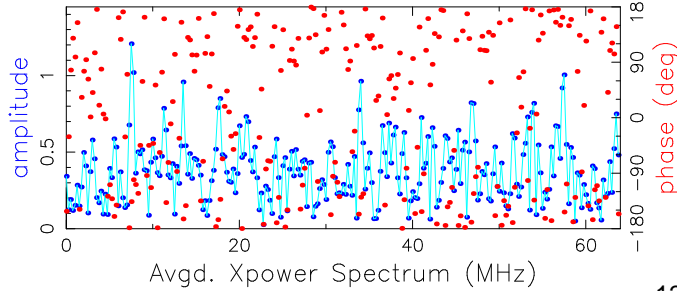


Fringe quality 0

SNR 6.3
 Int time 175.881
 Amp 0.268
 Phase 1.9
 PFD 4.0e-02
 Delays (us)
 SBD -0.481697
 MBD 0.001672
 Fringe rate (Hz)
 0.958439
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

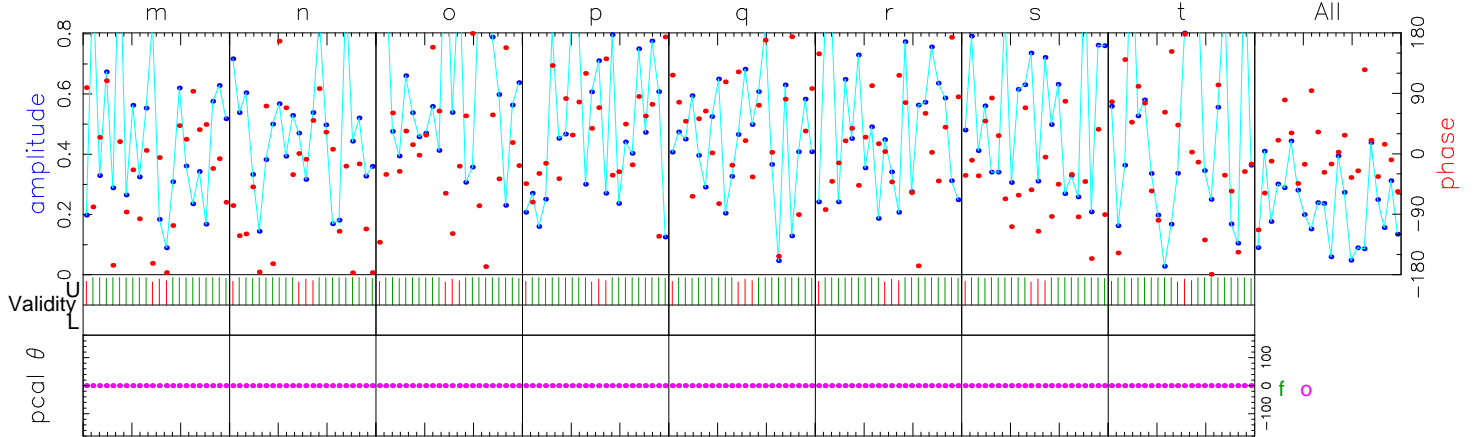


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175933
 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
	-10.5	-36.5	-22.8	48.4	44.0	5.2	-32.7	19.4	Phase	1.9
	0.3	0.1	0.3	0.4	0.3	0.3	0.5	0.3	Ampl.	0.3
	367.3	101.8	454.6	127.4	453.3	259.0	134.3	62.9	Sbd box	133.7
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	3.25492229026E+03	Apriori delay (usec)	3.25540499334E+03	Resid mbdelay (usec)	1.67192E-03	+/-	1.7E-04
Sband delay (usec)	3.25492329609E+03	Apriori clock (usec)	-2.4996143E+01	Resid sbdelay (usec)	-4.81697E-01	+/-	1.4E-03
Phase delay (usec)	3.25540499340E+03	Apriori clockrate (us/s)	-4.3105211E-07	Resid phdelay (usec)	6.18860E-08	+/-	5.9E-07
Delay rate (us/s)	-2.30306487606E-01	Apriori rate (us/s)	-2.30317614129E-01	Resid rate (us/s)	1.11265E-05	+/-	5.7E-09
Total phase (deg)	47.3	Apriori accel (us/s/s)	-1.78033367963E-05	Resid phase (deg)	1.9	+/-	18.2

ph/seg (deg)	52.2	Theor.	42.4	Amplitude	0.268 +/- 0.043	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	76.4	Search (1024X32)	0.160	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	35.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	41.3	Inc. seg. avg.	0.278	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.281	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 138.7 el 54.1 pa -34.5 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) 1310.443 -892.129 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fo.W.125.3MP2MB

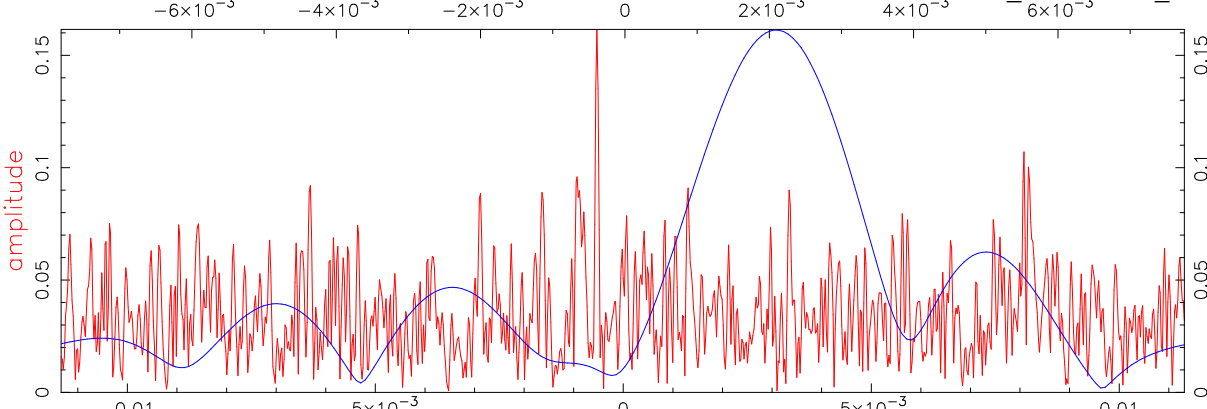
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fo

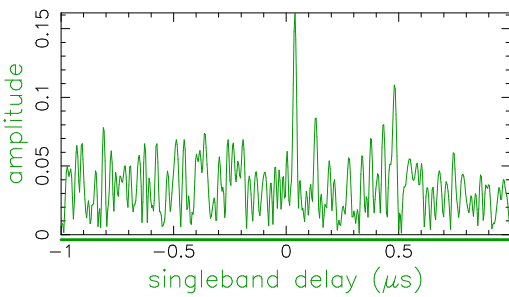
VLBA_FD - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)

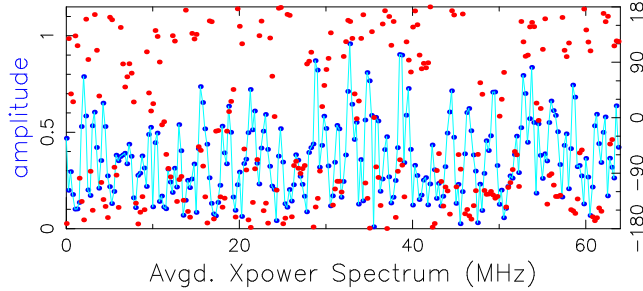


Fringe quality 0

SNR 5.9
 Int time 175.882
 Amp 0.162
 Phase -99.8
 PFD 4.6e-01
 Delays (us)
 SBD 0.038730
 MBD 0.002089
 Fringe rate (Hz)
 -0.046649
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

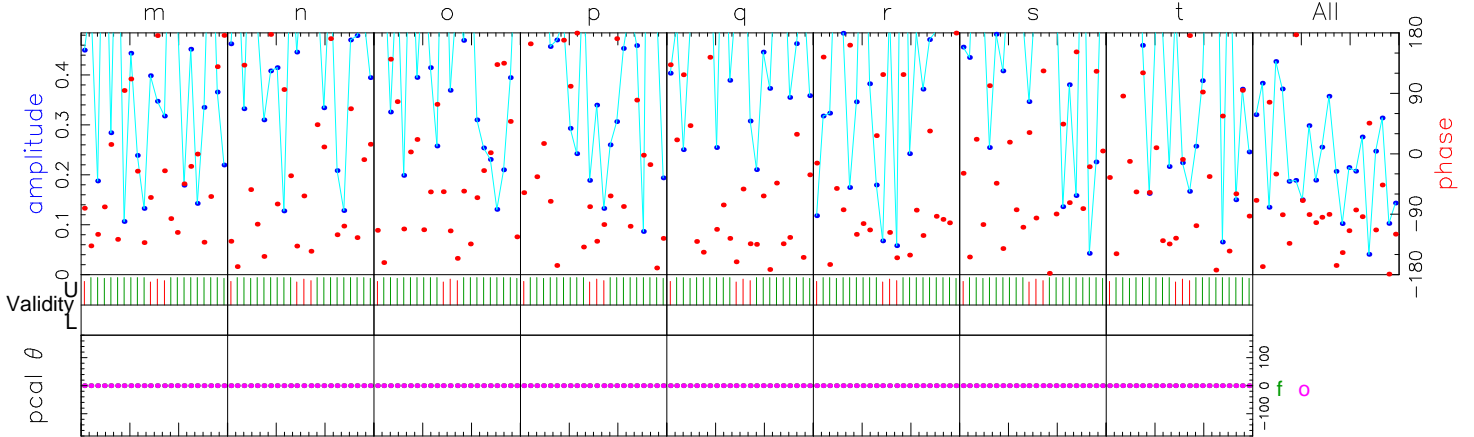


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175935
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-94.9	-99.5	-89.7	-97.5	-115.2	-124.0	-71.8	-83.1	Phase	-99.8
	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.2
	223.7	304.9	108.2	480.8	448.4	267.9	167.0	506.4	Sbd box	266.9
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	3.25543833280E+03	Apriori delay (usec)	3.25540499334E+03	Resid mbdelay (usec)	2.08946E-03	+/-	1.9E-04
Sband delay (usec)	3.25544372284E+03	Apriori clock (usec)	-2.4996143E+01	Resid sbdelay (usec)	3.87295E-02	+/-	1.5E-03
Phase delay (usec)	3.25540499012E+03	Apriori clockrate (us/s)	-4.3105211E-07	Resid phdelay (usec)	-3.21785E-06	+/-	6.3E-07
Delay rate (us/s)	-2.30318155680E-01	Apriori rate (us/s)	-2.30317614129E-01	Resid rate (us/s)	-5.41551E-07	+/-	6.1E-09
Total phase (deg)	-54.4	Apriori accel (us/s/s)	-1.78033367963E-05	Resid phase (deg)	-99.8	+/-	19.6

ph/seg (deg)	64.1	Theor.	45.7	Amplitude	0.162 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.9	Search (1024X32)	0.154	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	18.3	Inc. seg. avg.	0.176	Inc. frq. avg.	0.151	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	27.5	Inc. frq. avg.	0.151			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00
f: az 138.7 el 54.1 pa -34.5		o: az 127.0 el 40.9 pa -39.4		u, v (fr/asec)	1310.443 -892.129			simultaneous interpolator		

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fo.W.135.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

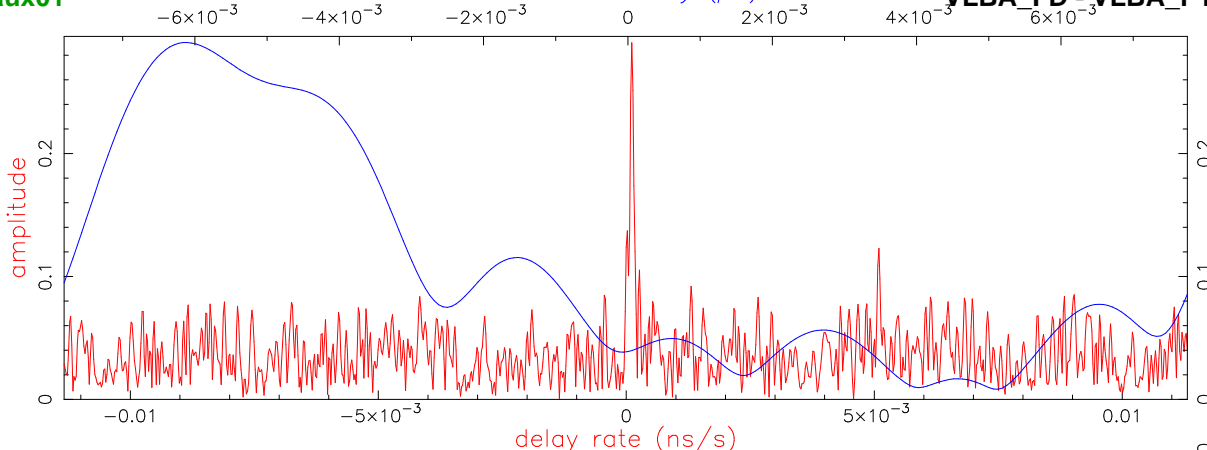
aux01

3C273.3MP2MB, No0707, fp

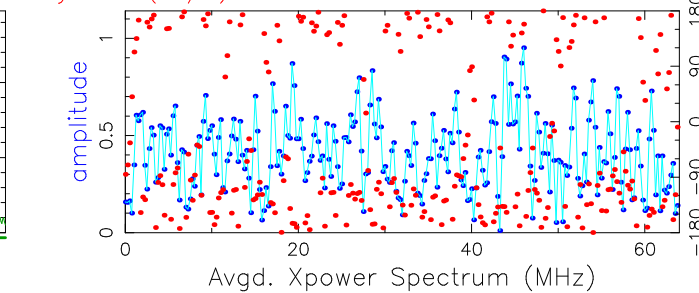
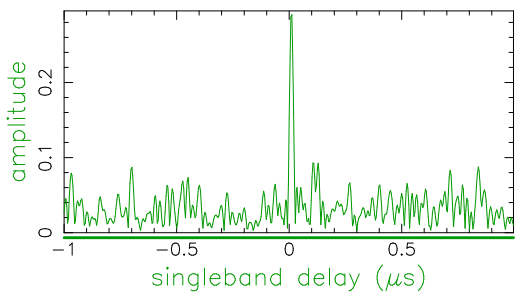
VLBA_FD - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 9

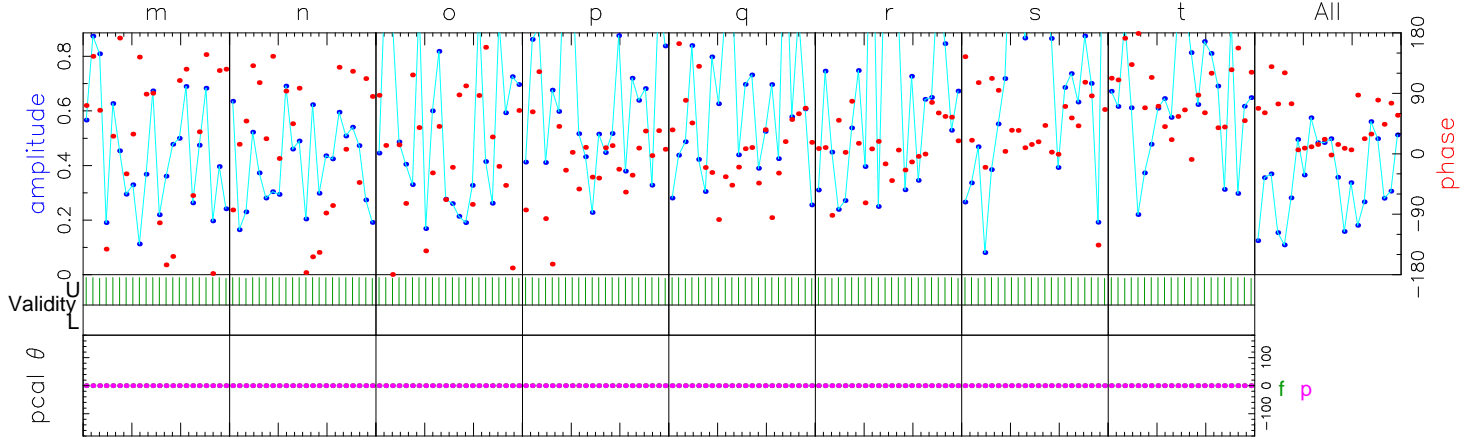


SNR 10.8
 Int time 179.763
 Amp 0.295
 Phase 36.6
 PFD 5.7e-19
 Delays (us)
 SBD 0.010003
 MBD -0.006169
 Fringe rate (Hz)
 0.009007
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175928
 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
	111.5	100.3	31.2	-0.6	5.4	10.0	43.8	84.1	Phase	36.6
	0.2	0.1	0.2	0.4	0.4	0.5	0.6	0.5	Ampl.	0.3
	160.4	361.5	471.1	259.7	259.1	259.4	259.4	260.2	Sbd box	259.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.15831931081E+03	Apriori delay (usec)	1.15830985478E+03	Resid mbdelay (usec)	-6.16897E-03	+/-	1.0E-04
Sband delay (usec)	1.15831985803E+03	Apriori clock (usec)	-5.6435318E+00	Resid sbdelay (usec)	1.00033E-02	+/-	8.0E-04
Phase delay (usec)	1.15830985596E+03	Apriori clockrate (us/s)	-3.2847705E-07	Resid phdelay (usec)	1.18101E-06	+/-	3.4E-07
Delay rate (us/s)	-6.48311970177E-02	Apriori rate (us/s)	-6.48313015782E-02	Resid rate (us/s)	1.04560E-07	+/-	3.3E-09
Total phase (deg)	357.2	Apriori accel (us/s/s)	-6.39305578006E-06	Resid phase (deg)	36.6	+/-	10.6

ph/seg (deg)	39.0	Theor.	24.8	Amplitude	0.295 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	52.3	Search (1024X32)	0.285	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	50.1	Inc. seg. avg.	0.322	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	60.8	Inc. frq. avg.	0.348	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

f: az 138.7 el 54.1 pa -34.5 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) 368.101 -495.186 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fp.W.103.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

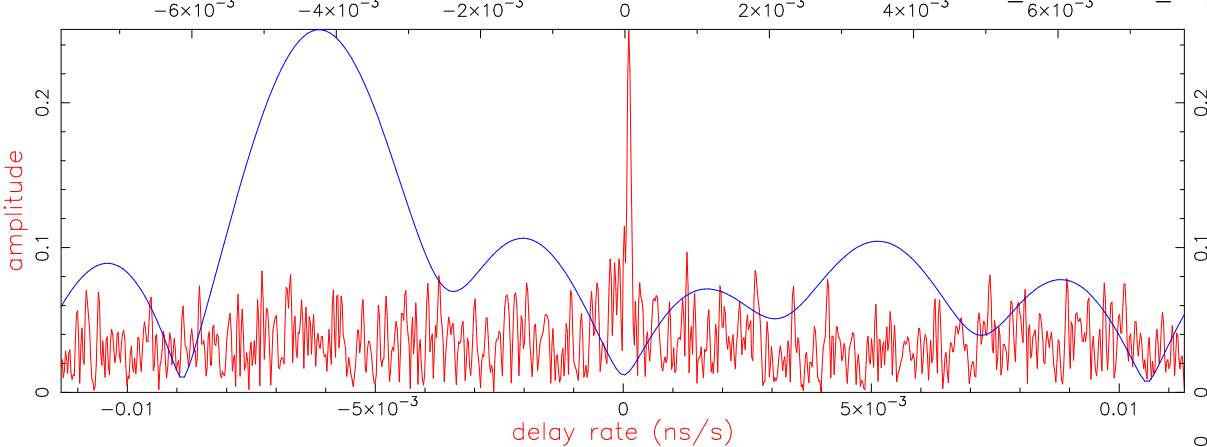
aux01

3C273.3MP2MB, No0707, fp

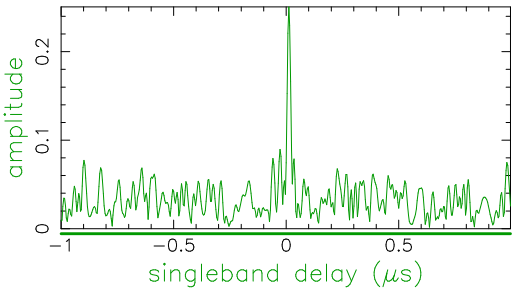
VLBA_FD - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)

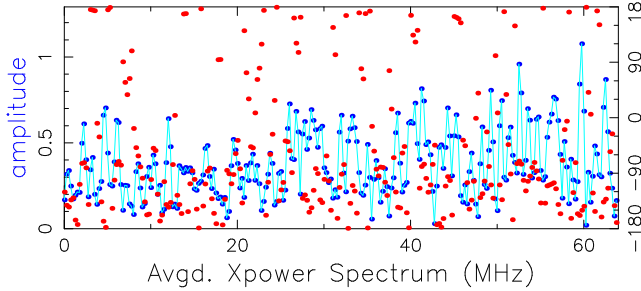
Fringe quality 9



SNR 9.2
 Int time 179.763
 Amp 0.251
 Phase 65.5
 PFD 7.5e-12
 Delays (us)
 SBD 0.012074
 MBD -0.004224
 Fringe rate (Hz)
 0.008810
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

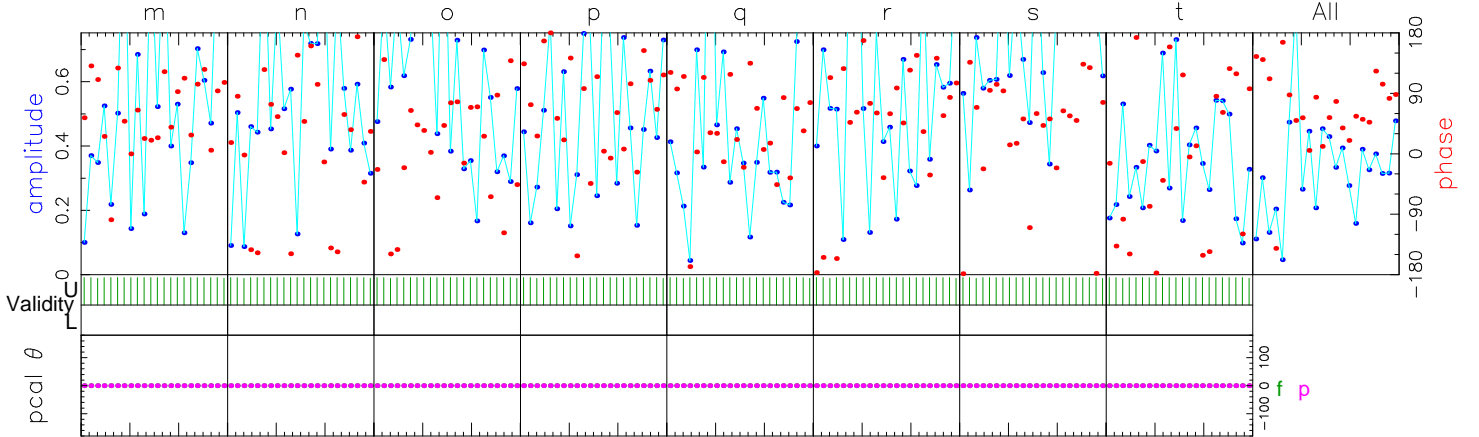


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175930
 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		
f	0	0	0	0	0	0	0	0		
p	0	0	0	0	0	0	0	0		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	1.15832125590E+03	Apriori delay (usec)		1.15830985478E+03	Resid mbdelay (usec)		-4.22388E-03	+/-	1.2E-04	
Sband delay (usec)	1.15832192878E+03	Apriori clock (usec)		-5.6435318E+00	Resid sbdelay (usec)		1.20740E-02	+/-	9.4E-04	
Phase delay (usec)	1.15830985689E+03	Apriori clockrate (us/s)		-3.2847705E-07	Resid phdelay (usec)		2.11185E-06	+/-	4.0E-07	
Delay rate (us/s)	-6.48311992979E-02	Apriori rate (us/s)		-6.48313015782E-02	Resid rate (us/s)		1.02280E-07	+/-	3.9E-09	
Total phase (deg)	26.0		Apriori accel (us/s/s)		-6.39305578006E-06	Resid phase (deg)		65.5	+/-	12.5

ph/seg (deg)	54.3	29.2	Search (1024X32)	0.245	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
amp/seg (%)	72.1	51.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000			
ph/frq (deg)	23.7	17.6	Inc. seg. avg.	0.293	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	53.9	30.8	Inc. frq. avg.	0.254	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011			
f: az 138.7 el 54.1 pa -34.5		p: az 136.3 el 49.0 pa -34.7		u,v (fr/asec) 368.101 -495.186		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/No0707//fp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fp.W.114.3MP2MB simultaneous interpolator

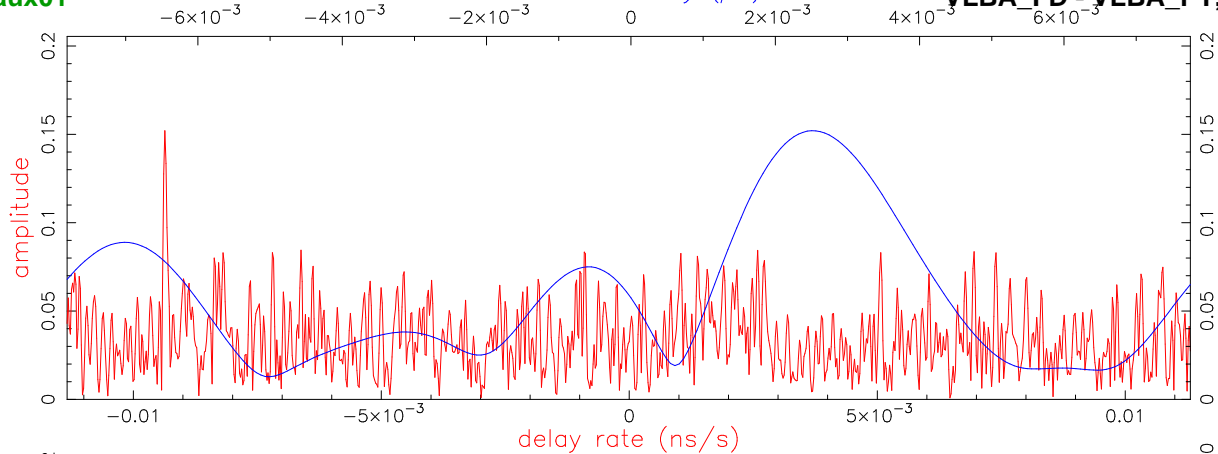
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fp

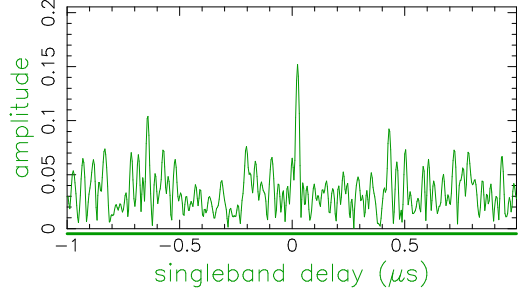
VLBA_FD - VLBA_PT, fgroup W, pol LR

multiband delay (μ s)

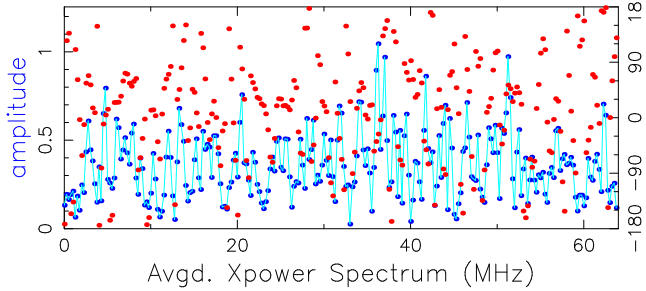


Fringe quality 0

SNR 5.6
 Int time 179.763
 Amp 0.205
 Phase -88.1
 PFD 9.5e-01
 Delays (us)
 SBD 0.023762
 MBD 0.002521
 Fringe rate (Hz)
 -0.808963
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

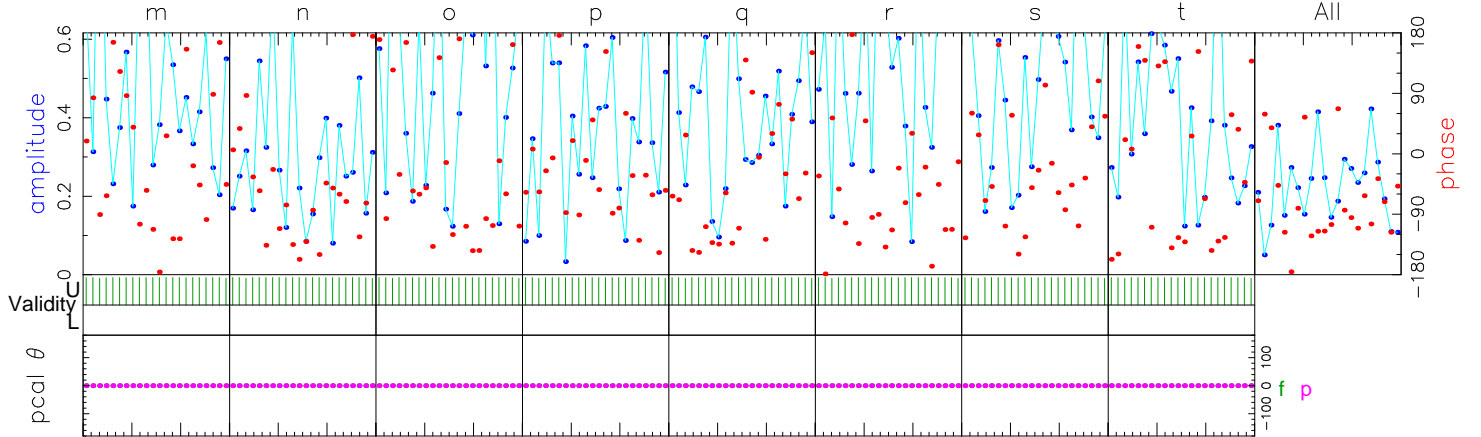


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175933
 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
	-76.0	-89.0	-134.5	-43.7	-86.9	-78.2	-47.9	-161.3	Phase	-88.1
	0.2	0.2	0.4	0.3	0.2	0.4	0.2	0.2	Ampl.	0.2
	30.3	29.9	158.3	60.6	205.8	262.4	288.1	326.3	Sbd box	263.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.15832800113E+03	Apriori delay (usec)	1.15830985478E+03	Resid mbdelay (usec)	2.52135E-03	+/-	1.9E-04
Sband delay (usec)	1.15833361728E+03	Apriori clock (usec)	-5.6435318E+00	Resid sbdelay (usec)	2.37625E-02	+/-	1.5E-03
Phase delay (usec)	1.15830985194E+03	Apriori clockrate (us/s)	-3.2847705E-07	Resid phdelay (usec)	-2.83954E-06	+/-	6.6E-07
Delay rate (us/s)	-6.48406928320E-02	Apriori rate (us/s)	-6.48313015782E-02	Resid rate (us/s)	-9.39125E-06	+/-	6.4E-09
Total phase (deg)	232.5	Apriori accel (us/s/s)	-6.39305578006E-06	Resid phase (deg)	-88.1	+/-	20.5

ph/seg (deg) 68.1 48.2 Search (1024X32) 0.150 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.8 84.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.5 29.0 Inc. seg. avg. 0.227 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.9 50.7 Inc. frq. avg. 0.222 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) 368.101 -495.186 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/ffp.3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/ffp.W.127.3MP2MB

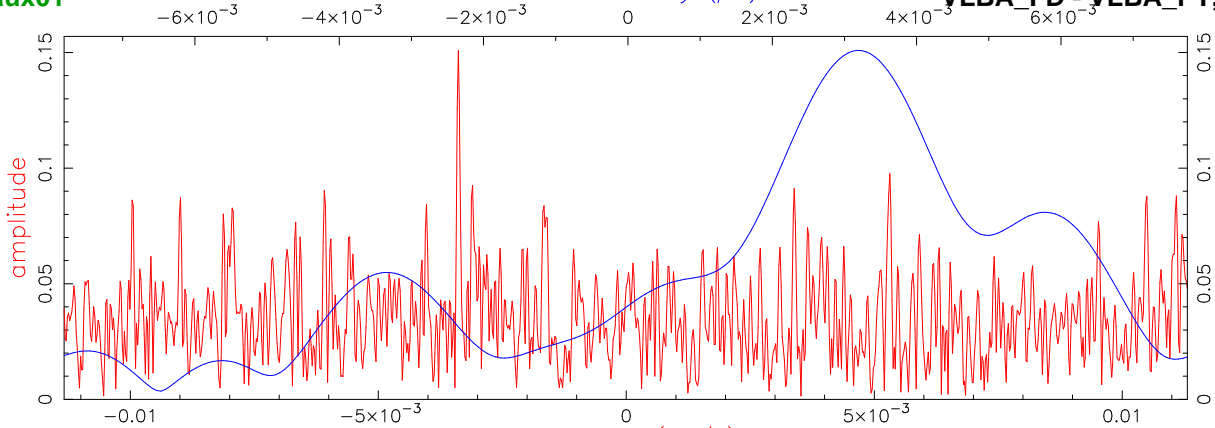
Mk4/DiFX fourfit 3.25 rev 0

aux01

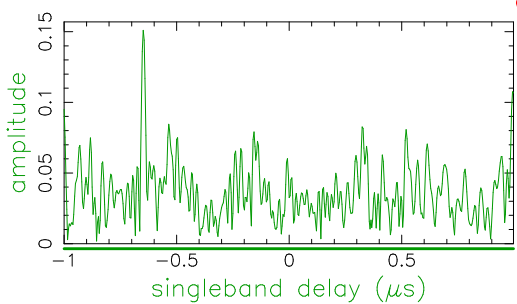
3C273.3MP2MB, No0707, fp

VLBA_FD - VLBA_PT, fgroup W, pol RL

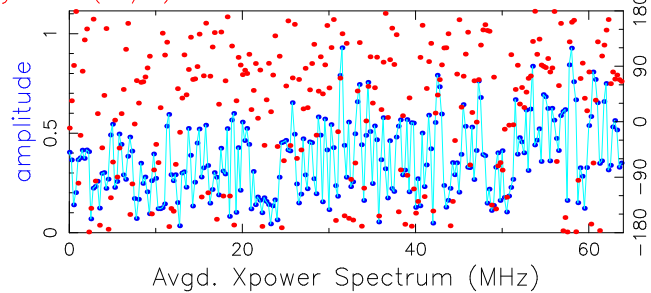
multiband delay (μ s)



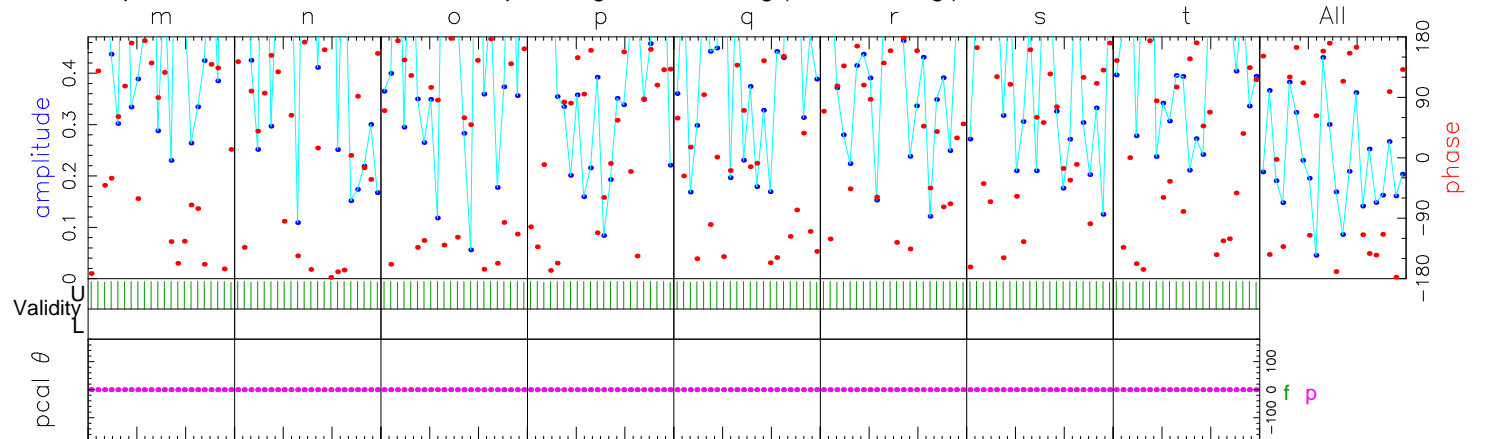
Fringe quality 0
 SNR 5.5
 Int time 179.763
 Amp 0.157
 Phase 169.8
 PFD 9.7e-01
 Delays (us)
 SBD -0.647711
 MBD 0.003182
 Fringe rate (Hz) -0.291703
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175936
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



delay rate (ns/s)



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	167.9	164.4	173.2	166.7	-119.1	131.5	128.1	-169.4	Phase	169.8		
	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	Ampl.	0.2		
	145.5	47.5	90.6	217.0	402.1	183.3	308.7	233.3	Sbd box	91.2		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used			
f	0	0	0	0	0	0	0	0	PC freqs			
p	0	0	0	0	0	0	0	0	PC freqs			
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC			
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
p	1000	1000	1000	1000	1000	1000	1000	1000				
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Tracks			
Group delay (usec) (SBD)	1.15765678712E+03		Apriori delay (usec)		1.15830985478E+03		Resid mbdelay (usec)		3.18234E-03	+/- 2.0E-04		
Sband delay (usec)	1.15766214378E+03		Apriori clock (usec)		-5.6435318E+00		Resid sbdelay (usec)		-6.47711E-01	+/- 1.6E-03		
Phase delay (usec)	1.15830986025E+03		Apriori clockrate (us/s)		-3.2847705E-07		Resid phdelay (usec)		5.47501E-06	+/- 6.7E-07		
Delay rate (us/s)	-6.48346879621E-02		Apriori rate (us/s)		-6.48313015782E-02		Resid rate (us/s)		-3.38638E-06	+/- 6.4E-09		
Total phase (deg)	130.3		Apriori accel (us/s/s)		-6.39305578006E-06		Resid phase (deg)		169.8	+/- 20.7		
ph/seg (deg)	RMS 61.9	Theor. 48.5	Amplitude Search (1024X32)		0.157 +/- 0.028		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	81.4	84.6	Interp.		0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	38.2	29.2	Inc. seg. avg.		0.173		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	58.1	51.0	Inc. frq. avg.		0.152		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011		
f: az 138.7 el 54.1 pa -34.5	p: az 136.3 el 49.0 pa -34.7		u, v (fr/asec)		368.101 -495.186		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/No0707//fp..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//fp.W.137.3MP2MB						simultaneous interpolator			