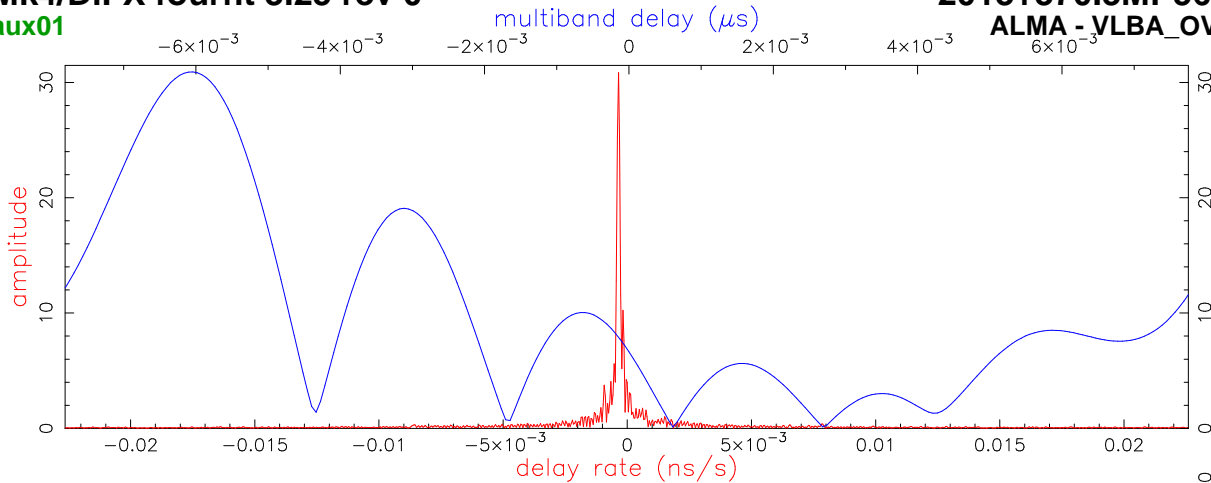


Mk4/DiFX fourfit 3.25 rev 0

aux01

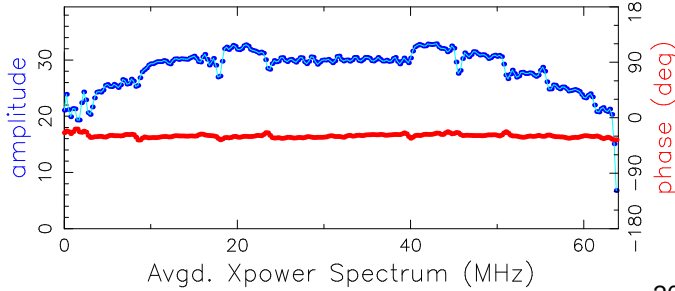
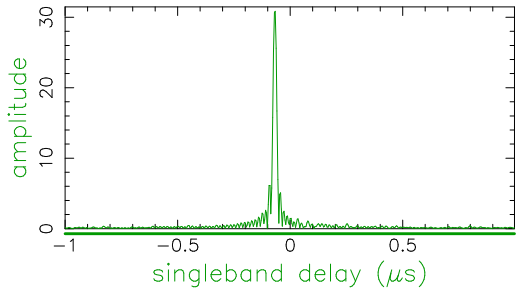
2013+370.3MP56K, No0500, Ao

ALMA - VLBA_OV, fgroup Q, pol XL



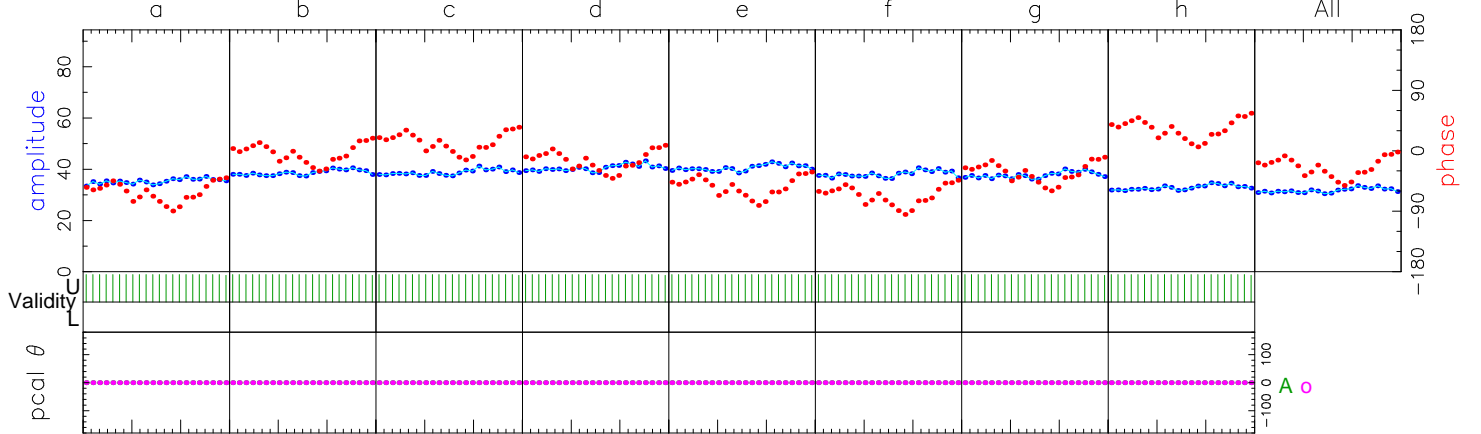
Fringe quality 6

SNR 1154.6
 Int time 179.987
 Amp 31.475
 Phase -114.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.068229
 MBD -0.006139
 Fringe rate (Hz)
 -0.015335
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151737
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-61.7	-3.9	13.0	-14.7	-53.4	-66.8	-32.0	32.6	Phase	-24.5
	34.4	37.6	37.7	39.3	39.4	37.0	36.6	31.9	Ampl.	36.7
	241.0	239.2	239.3	239.4	239.5	239.3	239.3	241.0	Sbd box	239.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
A:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
A	Q00UX	Q01UX	Q02UX	Q03UX	Q04UX	Q05UX	Q06UX	Q07UX	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	-5.33859580003E+03	Apriori delay (usec)	-5.33852716076E+03	Resid mbdelay (usec)	-6.13927E-03	+/-	9.4E-07
Sband delay (usec)	-5.33859538976E+03	Apriori clock (usec)	-2.1324758E+03	Resid sbdelay (usec)	-6.82290E-02	+/-	7.5E-06
Phase delay (usec)	-5.33852716234E+03	Apriori clockrate (us/s)	-4.9210397E-07	Resid phdelay (usec)	-1.57634E-06	+/-	6.4E-09
Delay rate (us/s)	-5.95145416599E-01	Apriori rate (us/s)	-5.95145061123E-01	Resid rate (us/s)	-3.55475E-07	+/-	6.1E-11
Total phase (deg)	-11.9	Apriori accel (us/s/s)	-5.08105994371E-05	Resid phase (deg)	-114.5	+/-	0.1

ph/seg (deg)	13.8	RMS	13.8	Theor.	0.2	Amplitude	31.475 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	2.9		0.4			Search (1024X32)	30.435	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	39.3		0.1			Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	18.4		0.2			Inc. seg. avg.	31.768	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Inc. frq. avg.	36.744	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 14.3 el 27.9 pa -163.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 2115.489 -5042.973 simultaneous interpolator

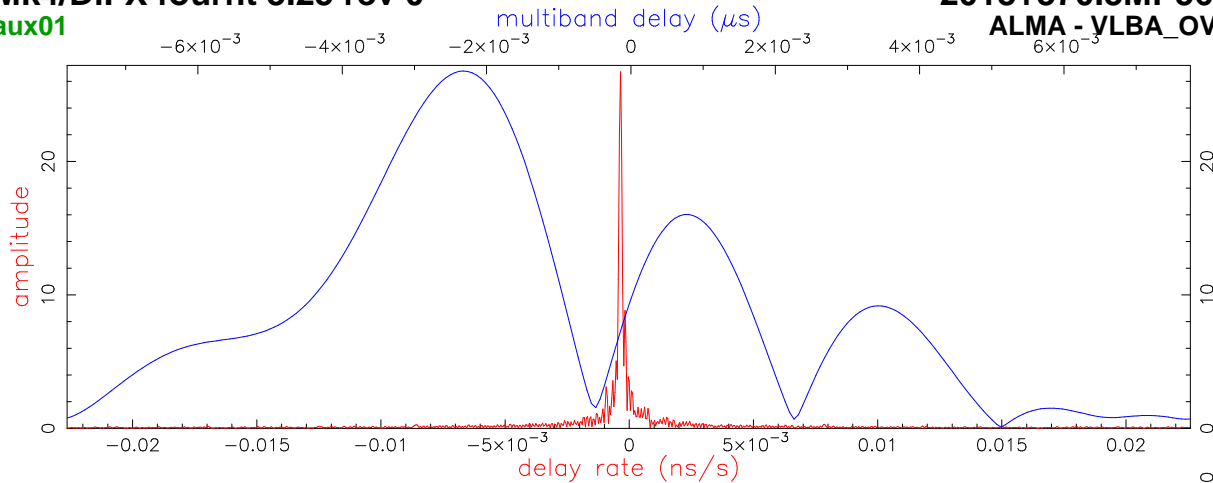
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500//Ao..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500//Ao.Q.19.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

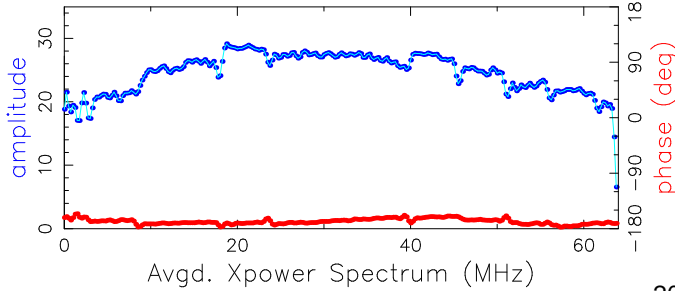
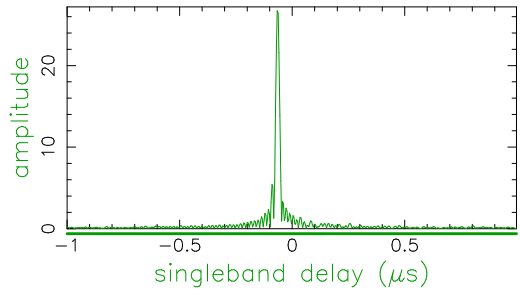
2013+370.3MP56K, No0500, Ao

ALMA - VLBA_OV, fgroup Q, pol YR



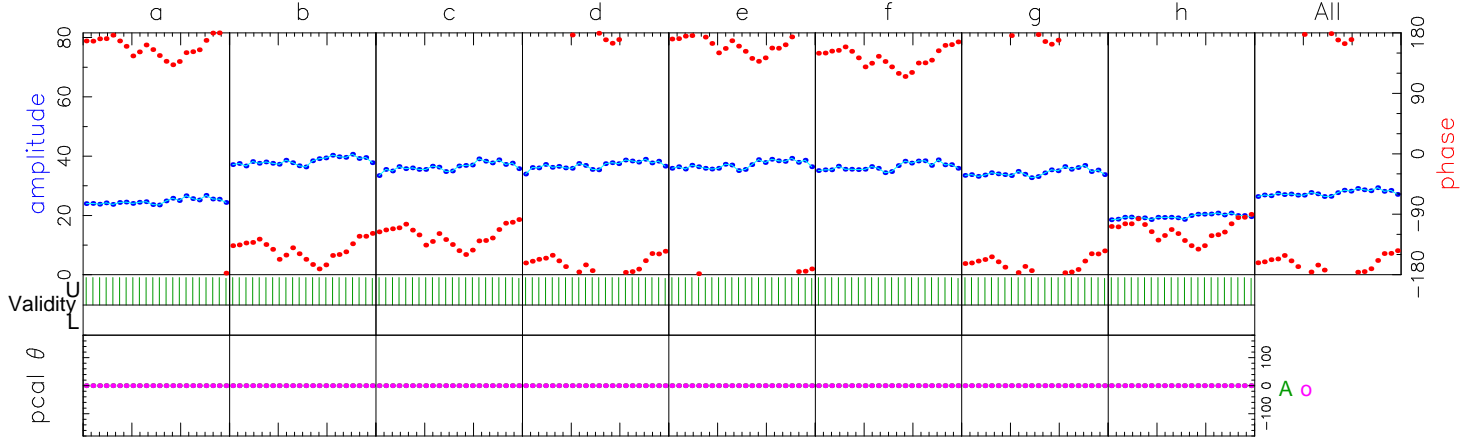
Fringe quality 5

SNR 997.9
 Int time 179.987
 Amp 27.202
 Phase -257.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.064699
 MBD -0.002241
 Fringe rate (Hz)
 -0.015357
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151739
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A	Q00UY	Q01UY	Q02UY	Q03UY	Q04UY	Q05UY	Q06UY	Q07UY		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) -5.33859190207E+03 Apriori delay (usec) -5.33852716076E+03 Resid mbdelay (usec) -2.24131E-03 +/- 1.1E-06
 Sband delay (usec) -5.33859186001E+03 Apriori clock (usec) -2.1324758E+03 Resid sbdelay (usec) -6.46992E-02 +/- 8.6E-06
 Phase delay (usec) -5.33852717157E+03 Apriori clockrate (us/s) -4.9210397E-07 Resid phdelay (usec) -1.08110E-05 +/- 7.4E-09
 Delay rate (us/s) -5.95145417114E-01 Apriori rate (us/s) -5.95145061123E-01 Resid rate (us/s) -3.55990E-07 +/- 7.1E-11
 Total phase (deg) -155.4 Apriori accel (us/s/s) -5.08105994371E-05 Resid phase (deg) -257.9 +/- 0.1

RMS Theor. Amplitude 27.202 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 14.3 0.3 Search (1024X32) 26.476 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 3.5 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 40.5 0.2 Inc. seg. avg. 27.583 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 29.0 0.3 Inc. frq. avg. 31.990 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

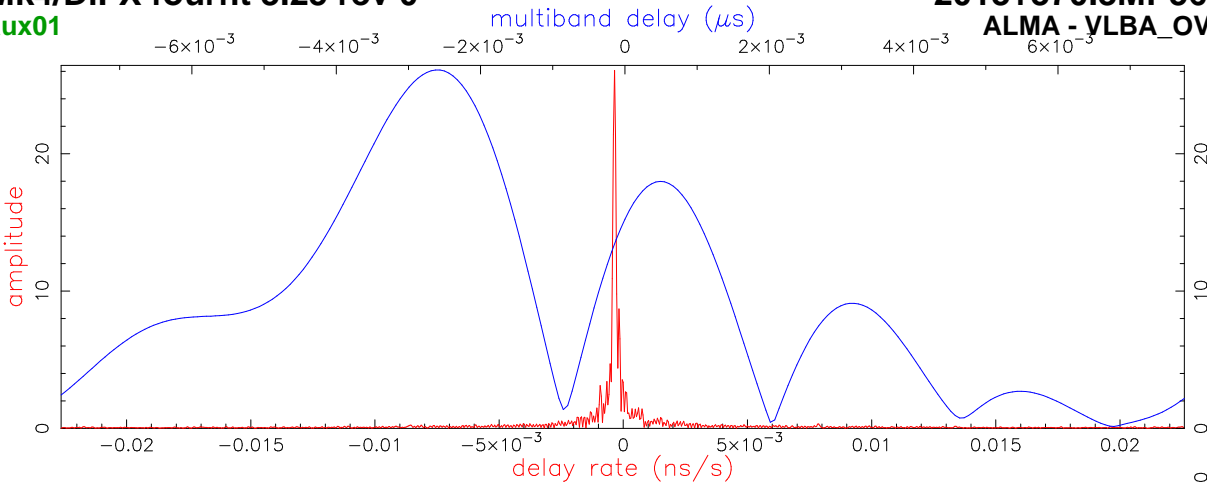
A: az 14.3 el 27.9 pa -163.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 2115.489 -5042.973 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500//Ao..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500//Ao.Q.28.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

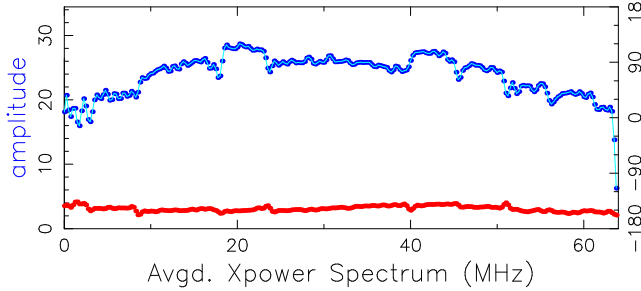
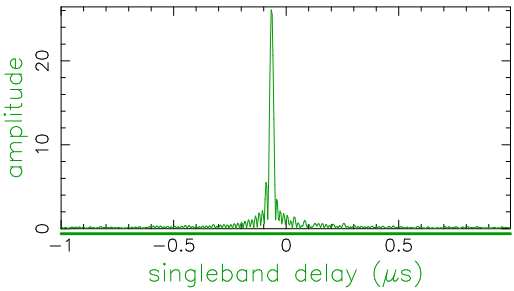
2013+370.3MP56K, No0500, Ao

ALMA - VLBA_OV, fgroup Q, pol XR



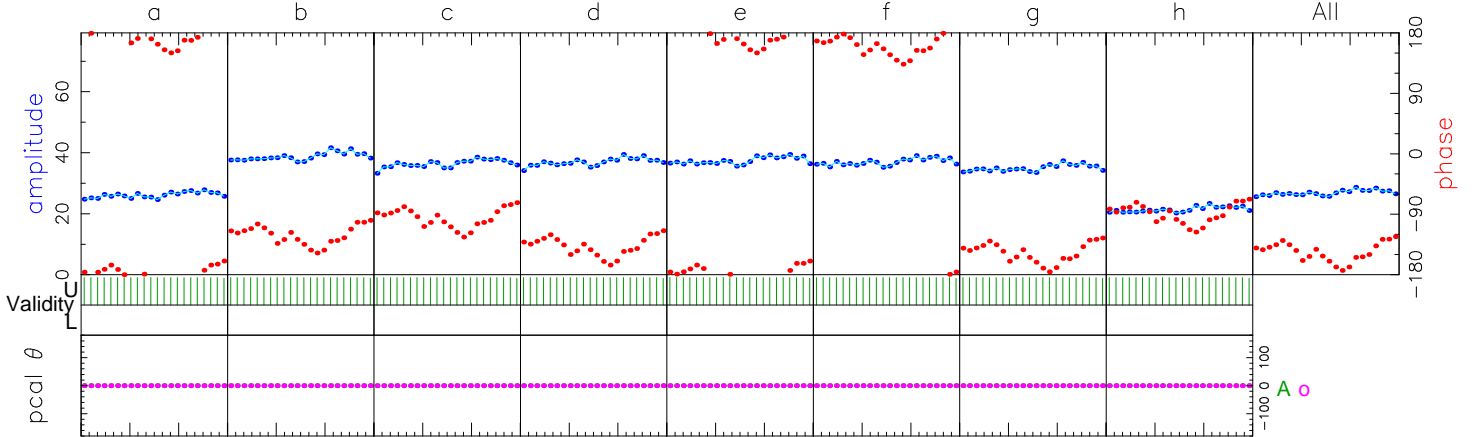
Fringe quality 5

SNR 969.8
 Int time 179.987
 Amp 26.438
 Phase -236.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.064894
 MBD -0.002532
 Fringe rate (Hz)
 -0.015313
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151741
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A	Q00UX	Q01UX	Q02UX	Q03UX	Q04UX	Q05UX	Q06UX	Q07UX		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD)	-5.33859219228E+03	Apriori delay (usec)	-5.33852716076E+03	Resid mbdelay (usec)	-2.53152E-03	+/-	1.1E-06
Sband delay (usec)	-5.33859205476E+03	Apriori clock (usec)	-2.1324758E+03	Resid sbdelay (usec)	-6.48940E-02	+/-	8.9E-06
Phase delay (usec)	-5.33852717017E+03	Apriori clockrate (us/s)	-4.9210397E-07	Resid phdelay (usec)	-9.40805E-06	+/-	7.6E-09
Delay rate (us/s)	-5.95145416095E-01	Apriori rate (us/s)	-5.95145061123E-01	Resid rate (us/s)	-3.54972E-07	+/-	7.3E-11
Total phase (deg)	-133.6	Apriori accel (us/s/s)	-5.08105994371E-05	Resid phase (deg)	-236.1	+/-	0.1

ph/seg (deg)	13.9	0.3	Amplitude	26.438 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	3.5	0.5	Search (1024X32)	25.864	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	44.7	0.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	32.0	0.3	Inc. seg. avg.	26.865	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
			Inc. frq. avg.	32.654	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 14.3 el 27.9 pa -163.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 2115.489 -5042.973 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500//Ao..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500//Ao.Q.42.3MP56K

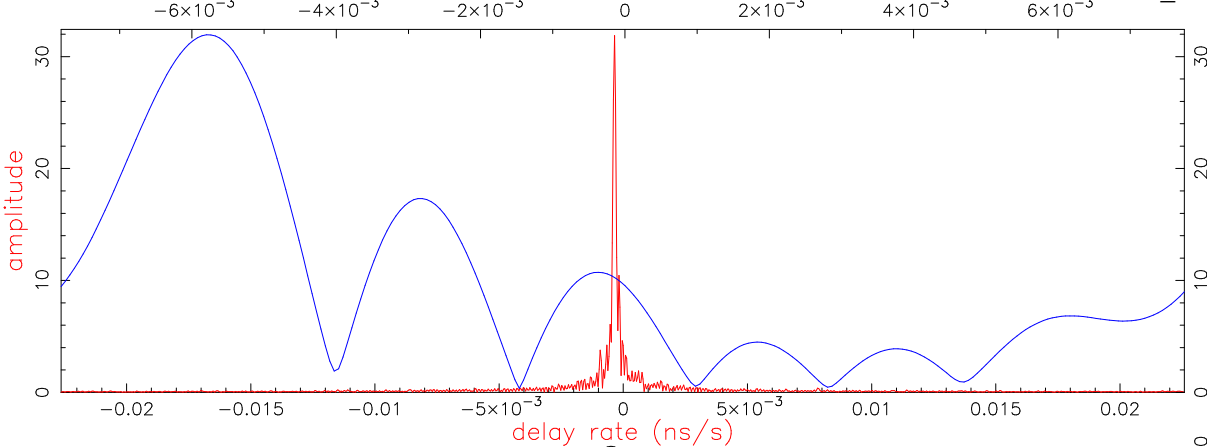
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, Ao

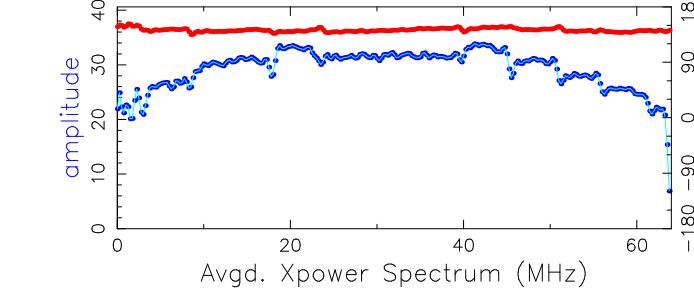
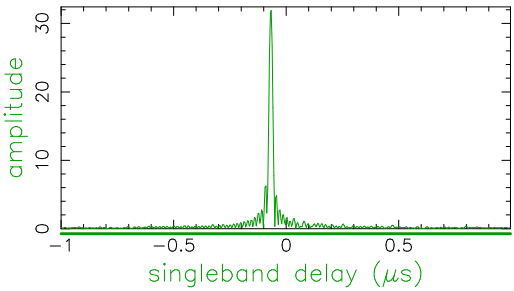
ALMA - VLBA_OV, fgroup Q, pol YL

multiband delay (μ s)



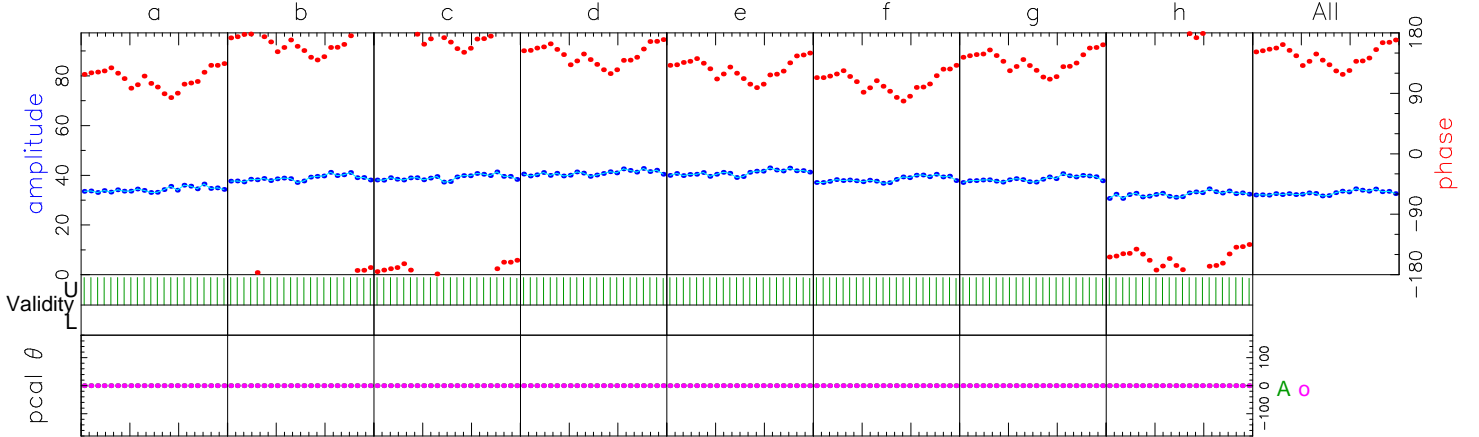
Fringe quality 6

SNR 1189.8
 Int time 179.987
 Amp 32.435
 Phase -304.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.068076
 MBD -0.005847
 Fringe rate (Hz)
 -0.015378
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151744
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A	Q00UY	Q01UY	Q02UY	Q03UY	Q04UY	Q05UY	Q06UY	Q07UY		
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	-5.33859550735E+03	Apriori delay (usec)	-5.33852716076E+03	Resid mbdelay (usec)	-5.84659E-03	+/-	9.1E-07
Sband delay (usec)	-5.33859523676E+03	Apriori clock (usec)	-2.1324758E+03	Resid sbdelay (usec)	-6.80760E-02	+/-	7.2E-06
Phase delay (usec)	-5.33852715137E+03	Apriori clockrate (us/s)	-4.9210397E-07	Resid phdelay (usec)	9.38703E-06	+/-	6.2E-09
Delay rate (us/s)	-5.95145417586E-01	Apriori rate (us/s)	-5.95145061123E-01	Resid rate (us/s)	-3.56463E-07	+/-	6.0E-11
Total phase (deg)	-201.7	Apriori accel (us/s/s)	-5.08105994371E-05	Resid phase (deg)	-304.2	+/-	0.1

ph/seg (deg)	14.3	RMS	14.3	Theor.	0.2	Amplitude	32.435 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	2.9		0.4			Search (1024X32)	31.646	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	35.9		0.1			Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	15.8		0.2			Inc. seg. avg.	32.908	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Inc. frq. avg.	36.739	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 14.3 el 27.9 pa -163.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 2115.489 -5042.973 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500//Ao..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500//Ao.Q.51.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

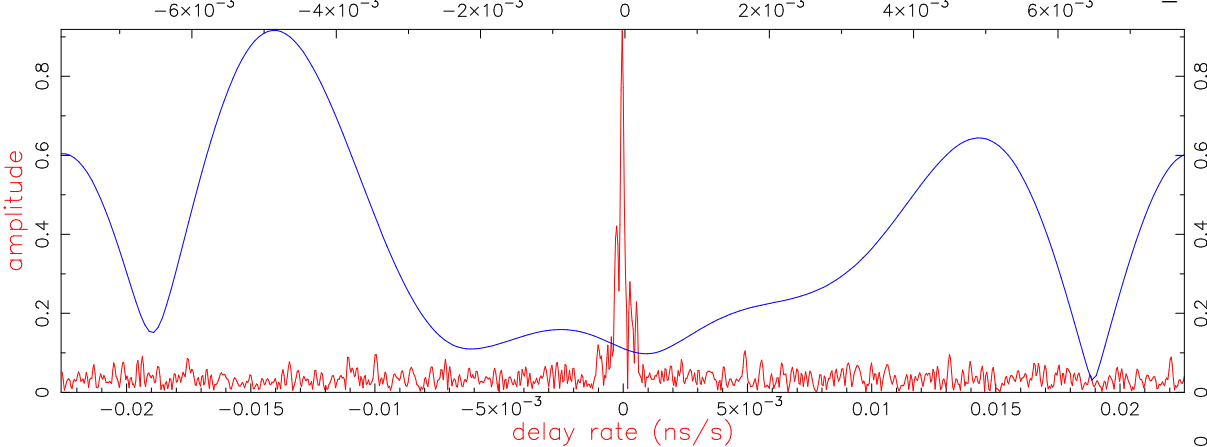
aux01

2013+370.3MP56K, No0500, Bo

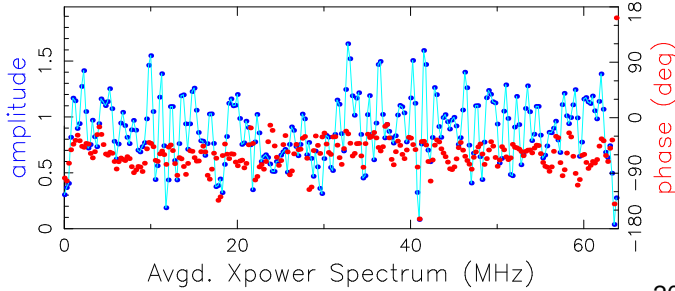
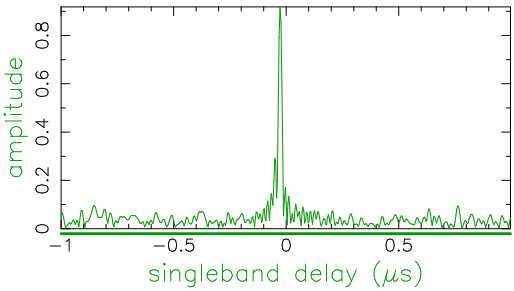
EFLSBERG - VLBA_OV, fgroup Q, pol LL

multiband delay (μ s)

Fringe quality 4

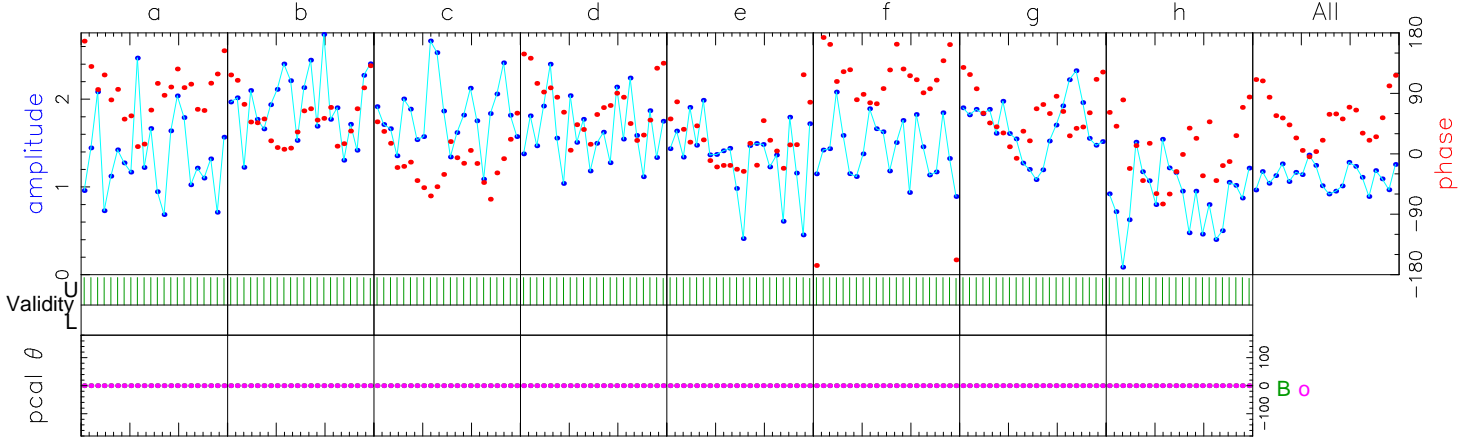


SNR 33.7
 Int time 179.963
 Amp 0.919
 Phase -151.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.026668
 MBD -0.004828
 Fringe rate (Hz)
 -0.002750
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151756
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD)	2.14242590833E+03	Apriori delay (usec)	2.14244636095E+03	Resid mbdelay (usec)	-4.82762E-03	+/-	3.2E-05
Sband delay (usec)	2.14241969295E+03	Apriori clock (usec)	-6.0446533E+01	Resid sbdelay (usec)	-2.66680E-02	+/-	2.6E-04
Phase delay (usec)	2.14244636424E+03	Apriori clockrate (us/s)	-6.7081106E-07	Resid phdelay (usec)	3.28405E-06	+/-	2.2E-07
Delay rate (us/s)	-1.57495390037E+00	Apriori rate (us/s)	-1.57495383662E+00	Resid rate (us/s)	-6.37459E-08	+/-	2.1E-09
Total phase (deg)	-147.3	Apriori accel (us/s/s)	-3.13709039149E-07	Resid phase (deg)	-151.5	+/-	3.4

ph/seg (deg)	34.8	RMS	8.0	Theor.	0.919 +/- 0.027	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	25.3	Search (1024X32)	0.886	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)	49.7	Inc. seg. avg.	1.102	Inc. frq. avg.	1.214	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.023	0.023
amp/frq (%)	44.7	Inc. frq. avg.	1.214			Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 275.5 el 46.9 pa 52.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5675.818 543.587 simultaneous interpolator

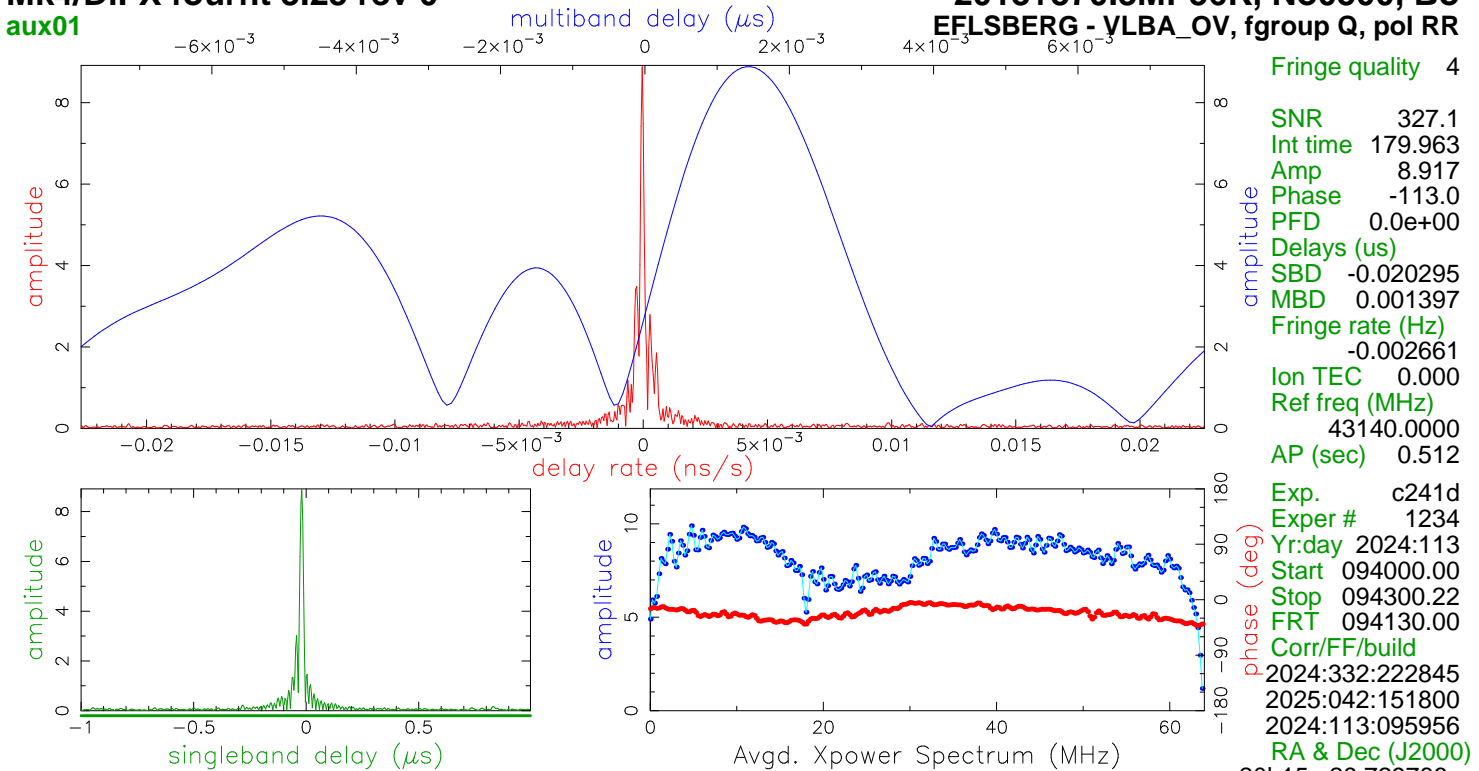
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Bo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Bo.Q.114.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

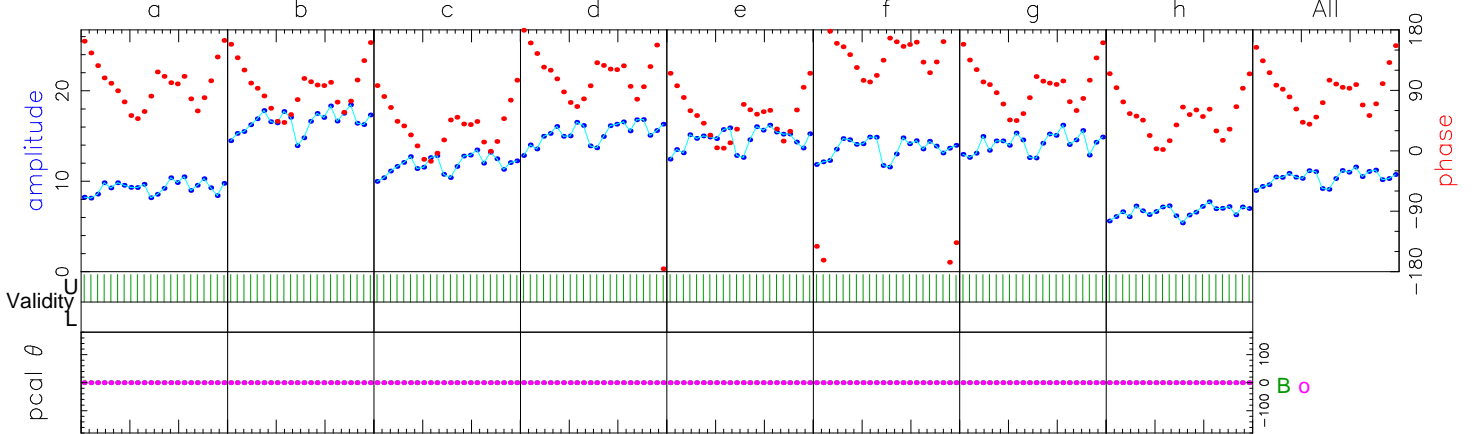
aux01

2013+370.3MP56K, No0500, Bo

EFLSBERG - VLBA_OV, fgroup Q, pol RR



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



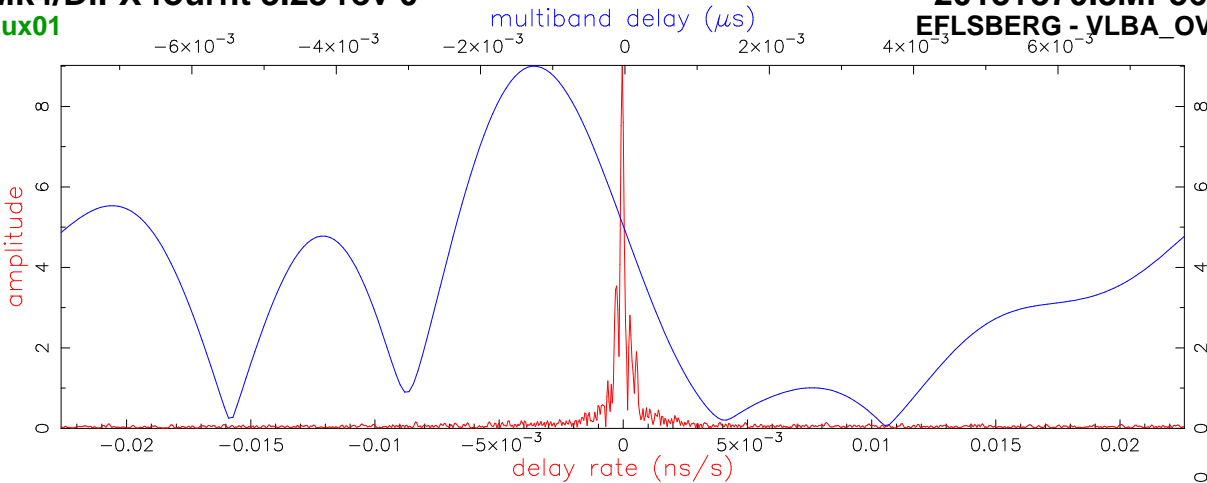
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
98.9	93.1	35.0	116.3	51.2	152.1	95.4	51.1	51.1	Phase	89.5
7.9	14.1	10.1	13.0	12.5	11.5	12.1	5.7	5.7	Ampl.	10.9
248.8	251.6	252.4	252.3	252.9	252.4	251.1	251.1	247.8	Sbd box	251.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	2.14243213330E+03		Apriori delay (usec)	2.14244636095E+03	Resid mbdelay (usec)	1.39734E-03	+/-	3.3E-06		
Sband delay (usec)	2.14242606620E+03		Apriori clock (usec)	-6.0446533E+01	Resid sbdelay (usec)	-2.02948E-02	+/-	2.6E-05		
Phase delay (usec)	2.14244636672E+03		Apriori clockrate (us/s)	-6.7081106E-07	Resid phdelay (usec)	5.76311E-06	+/-	2.3E-08		
Delay rate (us/s)	-1.57495389829E+00		Apriori rate (us/s)	-1.57495383662E+00	Resid rate (us/s)	-6.16718E-08	+/-	2.2E-10		
Total phase (deg)		-108.8	Apriori accel (us/s/s)	-3.13709039149E-07	Resid phase (deg)	-113.0	+/-	0.4		
RMS	Theor.	Amplitude	8.917 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5					
ph/seg (deg)	32.5	0.8	Search (1024X32)	8.648	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	18.8	1.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	42.2	0.5	Inc. seg. avg.	10.423	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023		
amp/frq (%)	36.8	0.9	Inc. frq. avg.	10.881	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	
B: az 275.5 el 46.9 pa 52.6		o: az 68.4 el 38.3 pa -68.5		u,v (fr/asec) 5675.818 543.587					simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241d/v1/7mm/1234/No0500/Bo..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/Bo.Q.139.3MP56K						

Mk4/DiFX fourfit 3.25 rev 0

aux01

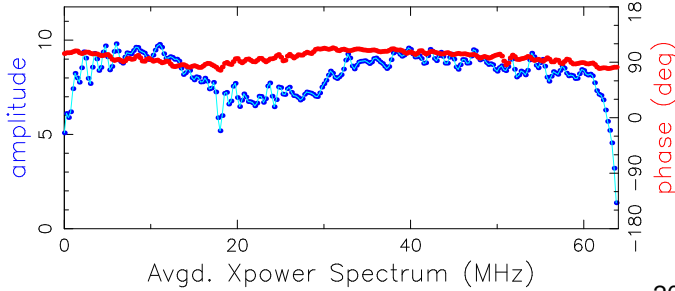
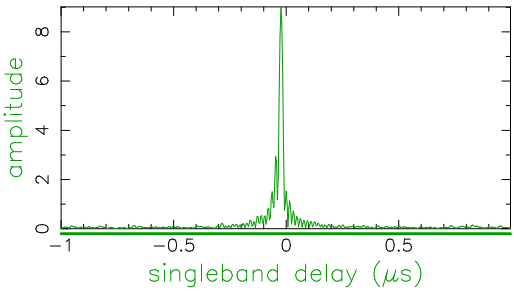
2013+370.3MP56K, No0500, Bo

EFLSBERG - VLBA_OV, fgroup Q, pol LR



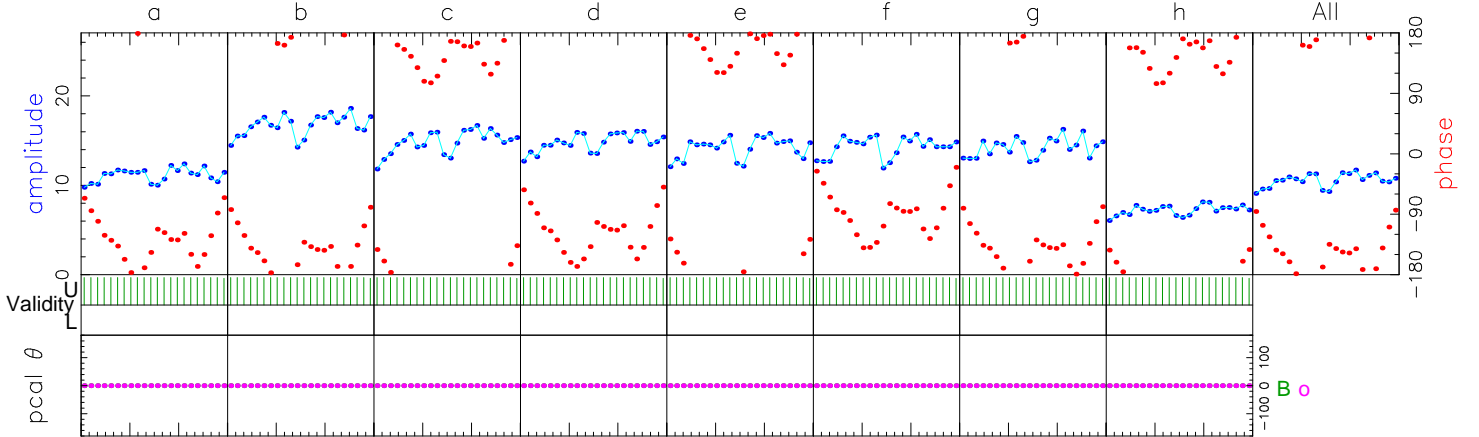
Fringe quality 4

SNR 330.9
 Int time 179.963
 Amp 9.021
 Phase -353.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.022845
 MBD -0.001230
 Fringe rate (Hz)
 -0.002658
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151802
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	11.4
o	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	251.2
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	PC amp	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
									Tracks	

Group delay (usec) (SBD)	2.14242950602E+03	Apriori delay (usec)		2.14244636095E+03	Resid mbdelay (usec)		-1.22994E-03	+/-	3.3E-06
Sband delay (usec)	2.14242351595E+03	Apriori clock (usec)		-6.0446533E+01	Resid sbdelay (usec)		-2.28450E-02	+/-	2.6E-05
Phase delay (usec)	2.14244635124E+03	Apriori clockrate (us/s)		-6.7081106E-07	Resid phdelay (usec)		-9.71431E-06	+/-	2.2E-08
Delay rate (us/s)	-1.57495389824E+00	Apriori rate (us/s)		-1.57495383662E+00	Resid rate (us/s)		-6.16209E-08	+/-	2.1E-10
Total phase (deg)	-349.2	Apriori accel (us/s/s)		-3.13709039149E-07	Resid phase (deg)		-353.4	+/-	0.3

ph/seg (deg)	32.6	0.8	Amplitude	9.021 +/- 0.027	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
amp/seg (%)	19.0	1.4	Search (1024X32)	8.608	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	45.8	0.5	Inc. seg. avg.	10.569	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	37.3	0.9	Inc. frq. avg.	11.441	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.023 0.023	
					Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 275.5 el 46.9 pa 52.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5675.818 543.587 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Bo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Bo.Q.156.3MP56K

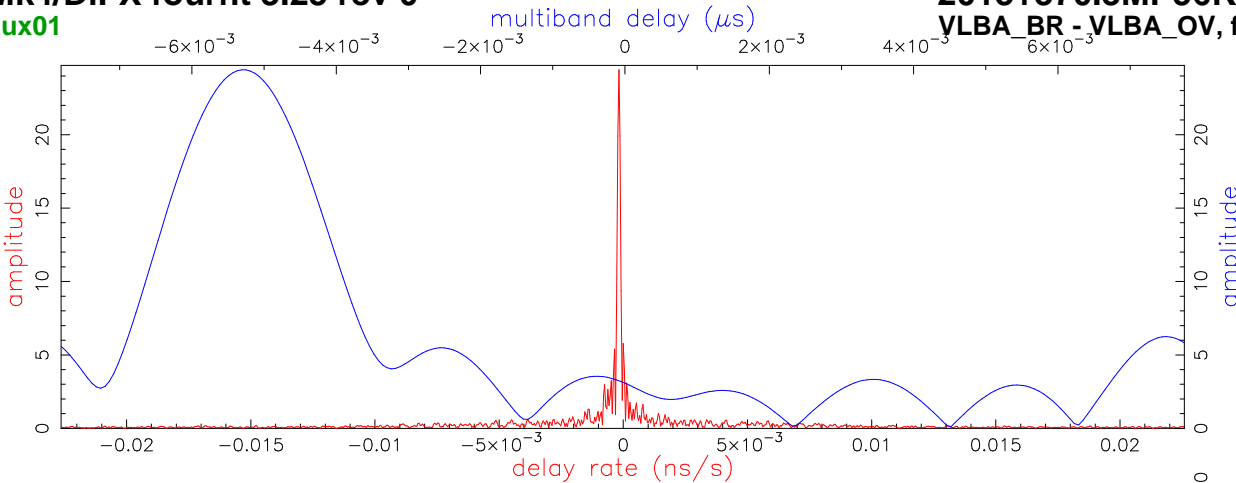
Mk4/DiFX fourfit 3.25 rev 0

aux01

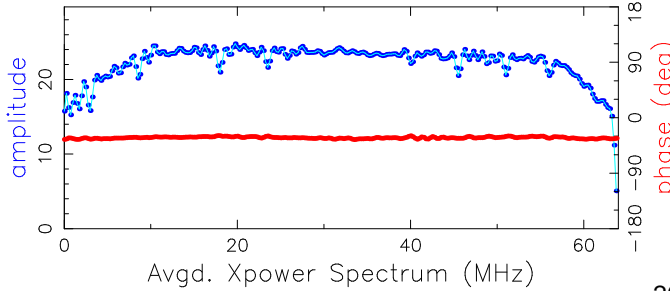
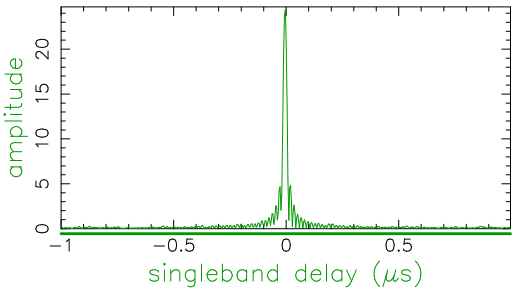
2013+370.3MP56K, No0500, bo

VLBA_BR - VLBA_OV, fgroup Q, pol LL

Fringe quality 8

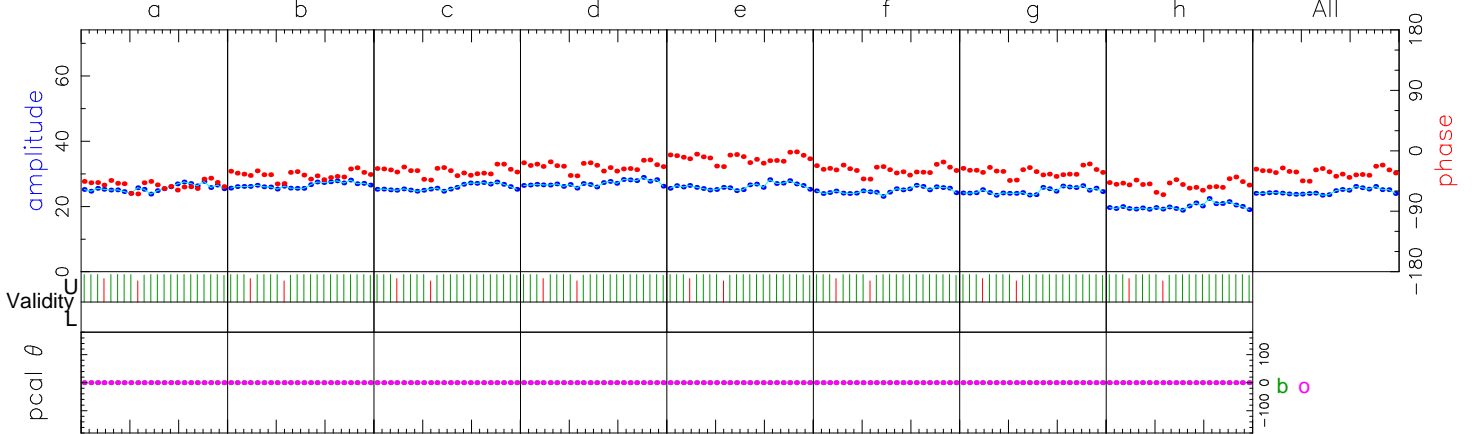


SNR 898.4
 Int time 176.661
 Amp 24.719
 Phase -32.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.005325
 MBD -0.005327
 Fringe rate (Hz)
 -0.007141
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151744
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD) 6.33466426136E+02 Apriori delay (usec) 6.33471753195E+02 Resid mbdelay (usec) -5.32706E-03 +/- 1.2E-06
 Sband delay (usec) 6.33466428445E+02 Apriori clock (usec) -2.0430706E+01 Resid sbdelay (usec) -5.32475E-03 +/- 9.6E-06
 Phase delay (usec) 6.33471751131E+02 Apriori clockrate (us/s) 9.5168881E-08 Resid phdelay (usec) -2.06410E-06 +/- 8.2E-09
 Delay rate (us/s) -1.37172425855E-01 Apriori rate (us/s) -1.37172260336E-01 Resid rate (us/s) -1.65519E-07 +/- 8.0E-11
 Total phase (deg) 123.8 Apriori accel (us/s/s) 6.05912504011E-06 Resid phase (deg) -32.1 +/- 0.1

RMS Theor. Amplitude 24.719 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 6.0 0.3 Search (1024X32) 23.966 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 3.3 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 14.4 0.2 Inc. seg. avg. 24.545 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 8.4 0.3 Inc. frq. avg. 24.984 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

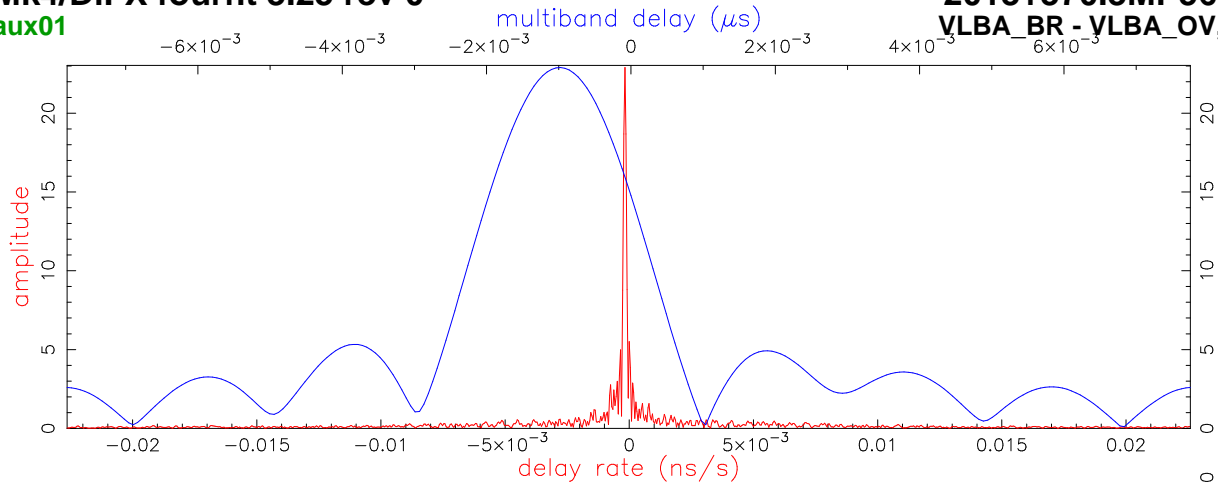
b: az 76.2 el 40.6 pa -54.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 497.844 671.216 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/bo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/bo.Q.55.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

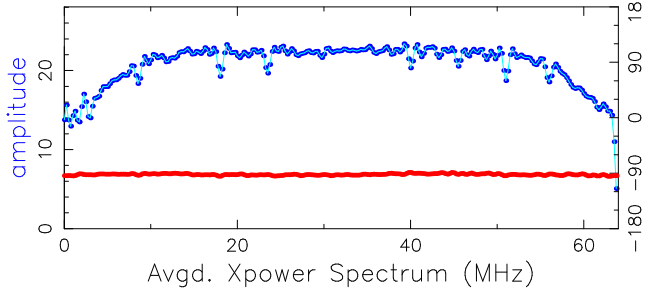
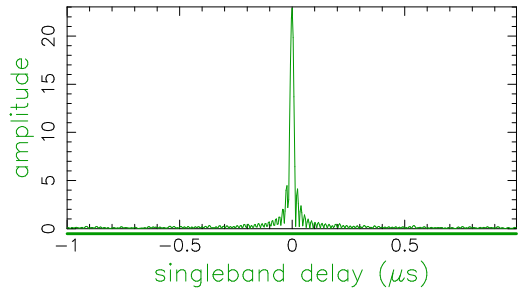
2013+370.3MP56K, No0500, bo

VLBA_BR - VLBA_OV, fgroup Q, pol RR



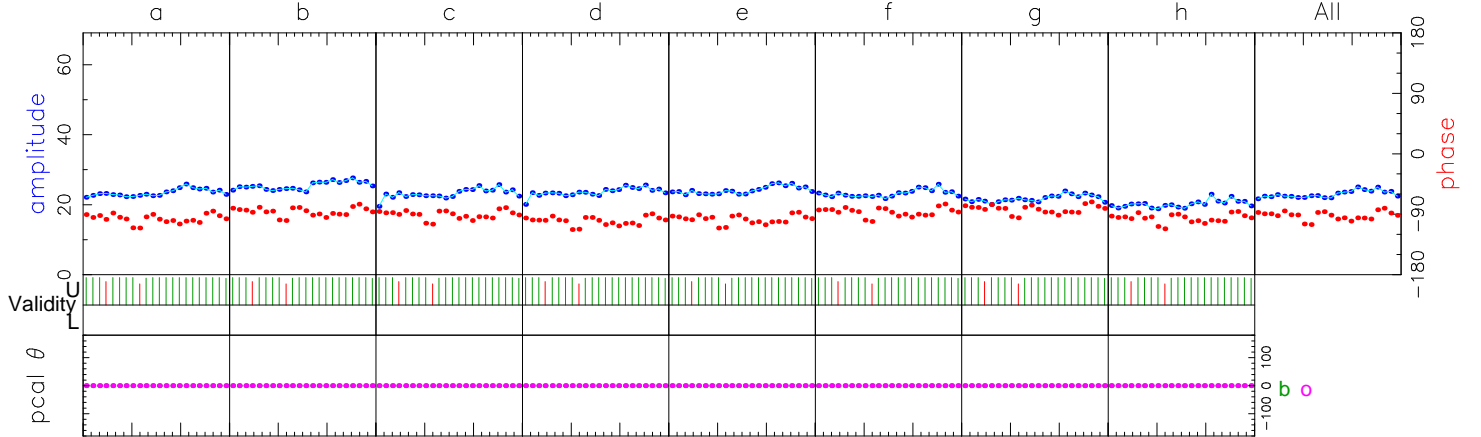
Fringe quality 9

SNR 837.2
 Int time 176.661
 Amp 23.035
 Phase -91.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.000992
 MBD -0.001005
 Fringe rate (Hz)
 -0.007149
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151746
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	23.0
o	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	256.7
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
b	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	PC amp	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD) 6.33470748198E+02 Apriori delay (usec) 6.33471753195E+02 Resid mbdelay (usec) -1.00500E-03 +/- 1.3E-06
 Sband delay (usec) 6.33470761195E+02 Apriori clock (usec) -2.0430706E+01 Resid sbdelay (usec) -9.92000E-04 +/- 1.0E-05
 Phase delay (usec) 6.33471747281E+02 Apriori clockrate (us/s) 9.5168881E-08 Resid phdelay (usec) -5.91410E-06 +/- 8.8E-09
 Delay rate (us/s) -1.37172426045E-01 Apriori rate (us/s) -1.37172260336E-01 Resid rate (us/s) -1.65709E-07 +/- 8.6E-11
 Total phase (deg) 64.0 Apriori accel (us/s/s) 6.05912504011E-06 Resid phase (deg) -91.8 +/- 0.1

RMS Theor. Amplitude 23.035 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 6.1 0.3 Search (1024X32) 22.570 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 4.3 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 6.9 0.2 Inc. seg. avg. 23.027 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 6.3 0.3 Inc. frq. avg. 23.022 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

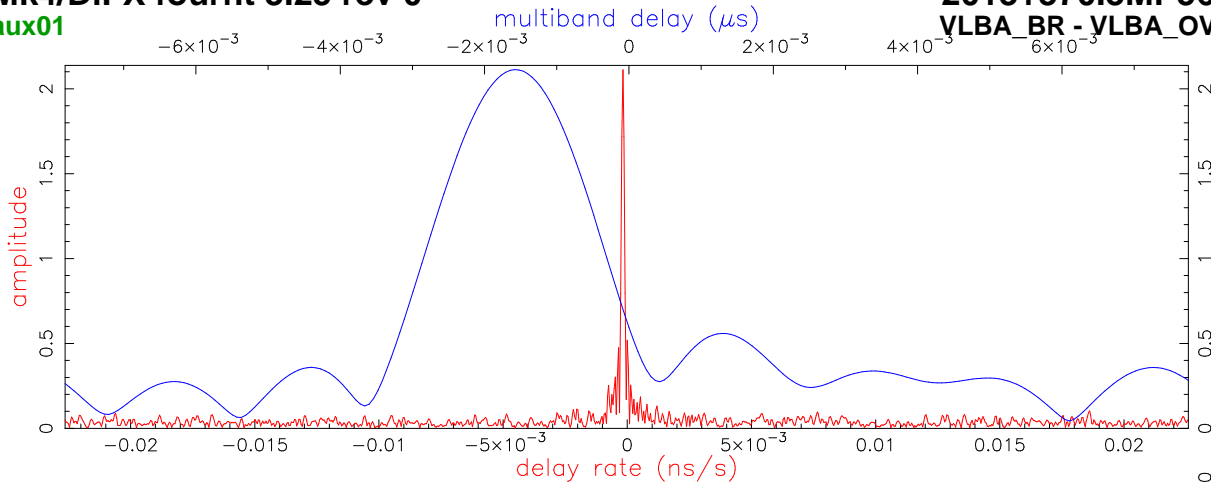
b: az 76.2 el 40.6 pa -54.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 497.844 671.216 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/bo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/bo.Q.65.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

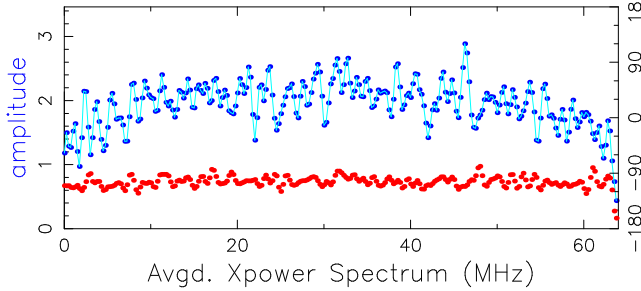
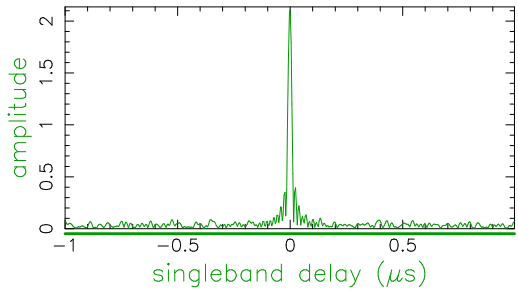
2013+370.3MP56K, No0500, bo

VLBA_BR - VLBA_OV, fgroup Q, pol LR



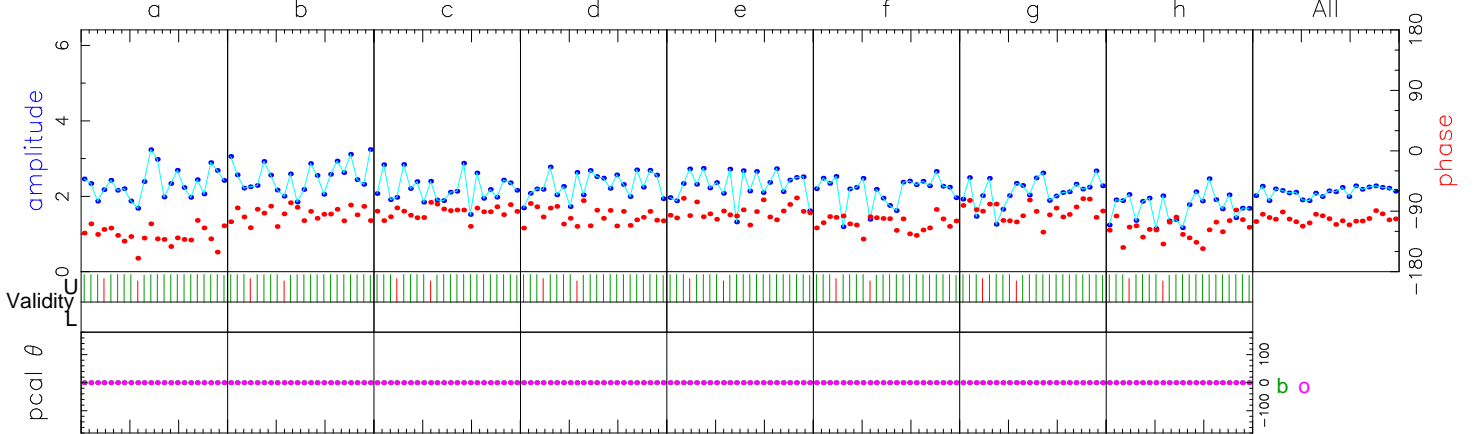
Fringe quality 8

SNR 77.7
 Int time 176.661
 Amp 2.138
 Phase -101.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.001418
 MBD -0.001602
 Fringe rate (Hz)
 -0.007139
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151748
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) 6.33470151073E+02 Apriori delay (usec) 6.33471753195E+02 Resid mbdelay (usec) -1.60212E-03 +/- 1.4E-05
 Sband delay (usec) 6.33470335195E+02 Apriori clock (usec) -2.0430706E+01 Resid sbdelay (usec) -1.41800E-03 +/- 1.1E-04
 Phase delay (usec) 6.33471746677E+02 Apriori clockrate (us/s) 9.5168881E-08 Resid phdelay (usec) -6.51784E-06 +/- 9.5E-08
 Delay rate (us/s) -1.37172425816E-01 Apriori rate (us/s) -1.37172260336E-01 Resid rate (us/s) -1.65480E-07 +/- 9.2E-10
 Total phase (deg) 54.6 Apriori accel (us/s/s) 6.05912504011E-06 Resid phase (deg) -101.2 +/- 1.5

ph/seg (deg) 6.1 3.4 Search (1024X32) 2.074 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 5.8 6.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 15.0 2.1 Inc. seg. avg. 2.120 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.5 3.6 Inc. frq. avg. 2.165 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 76.2 el 40.6 pa -54.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 497.844 671.216 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/bo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/bo.Q.79.3MP56K

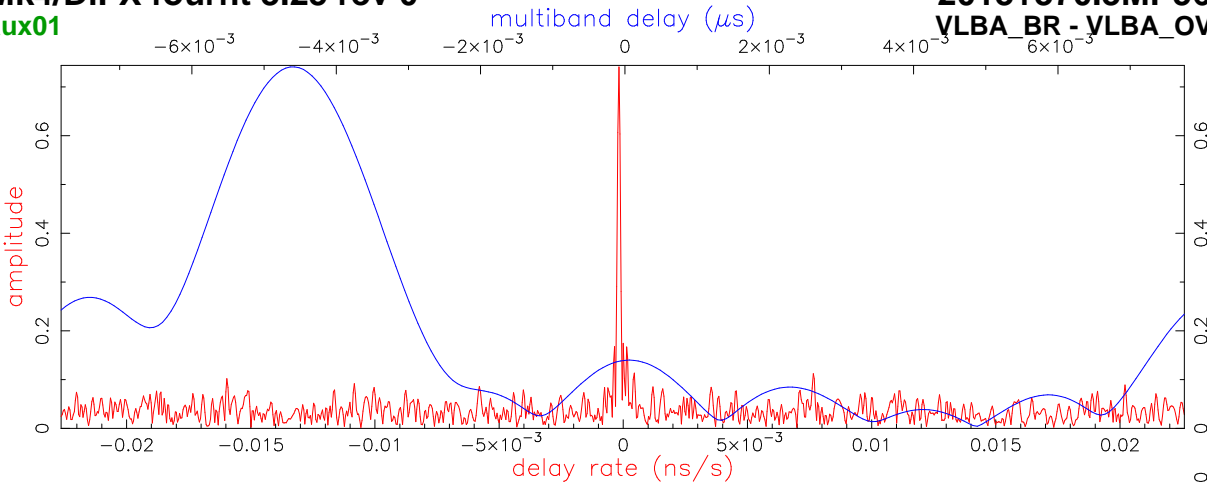
Mk4/DiFX fourfit 3.25 rev 0

aux01

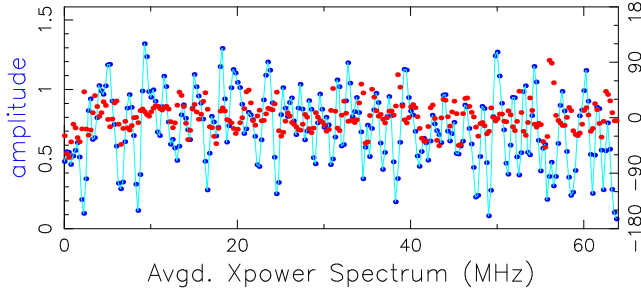
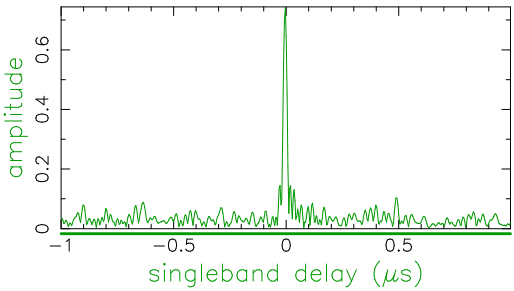
2013+370.3MP56K, No0500, bo

VLBA_BR - VLBA_OV, fgroup Q, pol RL

Fringe quality 9

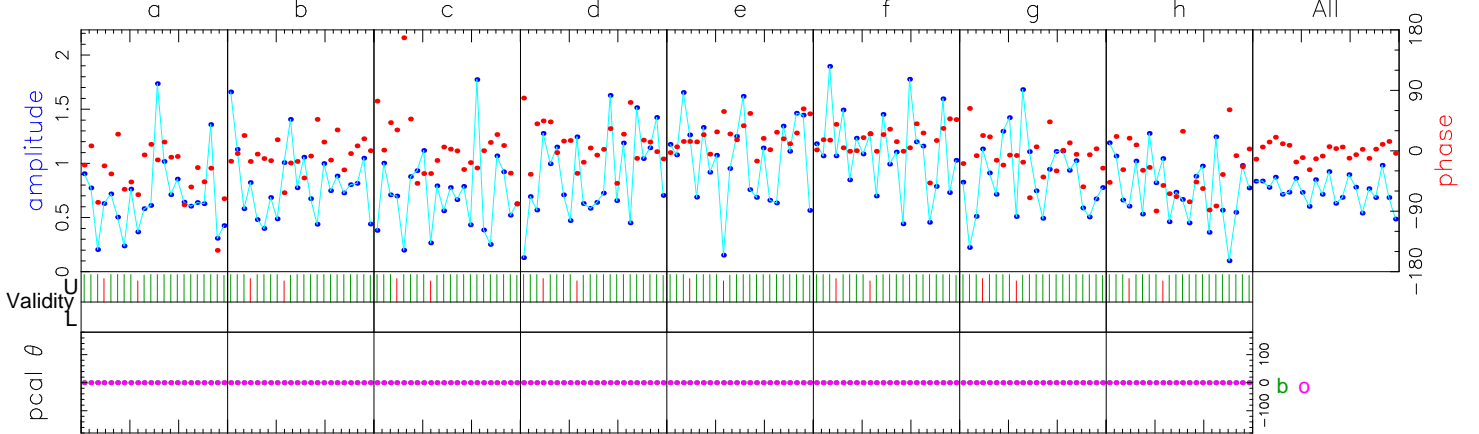


SNR 27.1
 Int time 176.661
 Amp 0.744
 Phase -0.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.004718
 MBD -0.004620
 Fringe rate (Hz)
 -0.007079
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151751
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-23.6	-6.7	-5.4	8.3	21.1	18.1	-9.0	-34.2		-0.6
	0.6	0.8	0.6	0.8	1.0	1.1	0.8	0.6	Ampl.	0.8
	255.8	256.0	256.1	256.6	255.7	256.0	254.9	255.1	Sbd box	255.8
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	6.33467133542E+02	Apriori delay (usec)	6.33471753195E+02	Resid mbdelay (usec)	-4.61965E-03	+/-	4.0E-05
Sband delay (usec)	6.33467035195E+02	Apriori clock (usec)	-2.0430706E+01	Resid sbdelay (usec)	-4.71800E-03	+/-	3.2E-04
Phase delay (usec)	6.33471753158E+02	Apriori clockrate (us/s)	9.5168881E-08	Resid phdelay (usec)	-3.64343E-03	+/-	2.7E-07
Delay rate (us/s)	-1.37172424421E-01	Apriori rate (us/s)	-1.37172260336E-01	Resid rate (us/s)	-1.64085E-07	+/-	2.7E-09
Total phase (deg)	155.3	Apriori accel (us/s/s)	6.05912504011E-06	Resid phase (deg)	-0.6	+/-	4.2

ph/seg (deg)	11.2	Theor.	9.9	Amplitude	0.744 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	16.3	Search (1024X32)	0.718	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	21.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	22.7	Inc. seg. avg.	0.745	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023	
		Inc. frq. avg.	0.775	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 76.2 el 40.6 pa -54.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 497.844 671.216 simultaneous interpolator

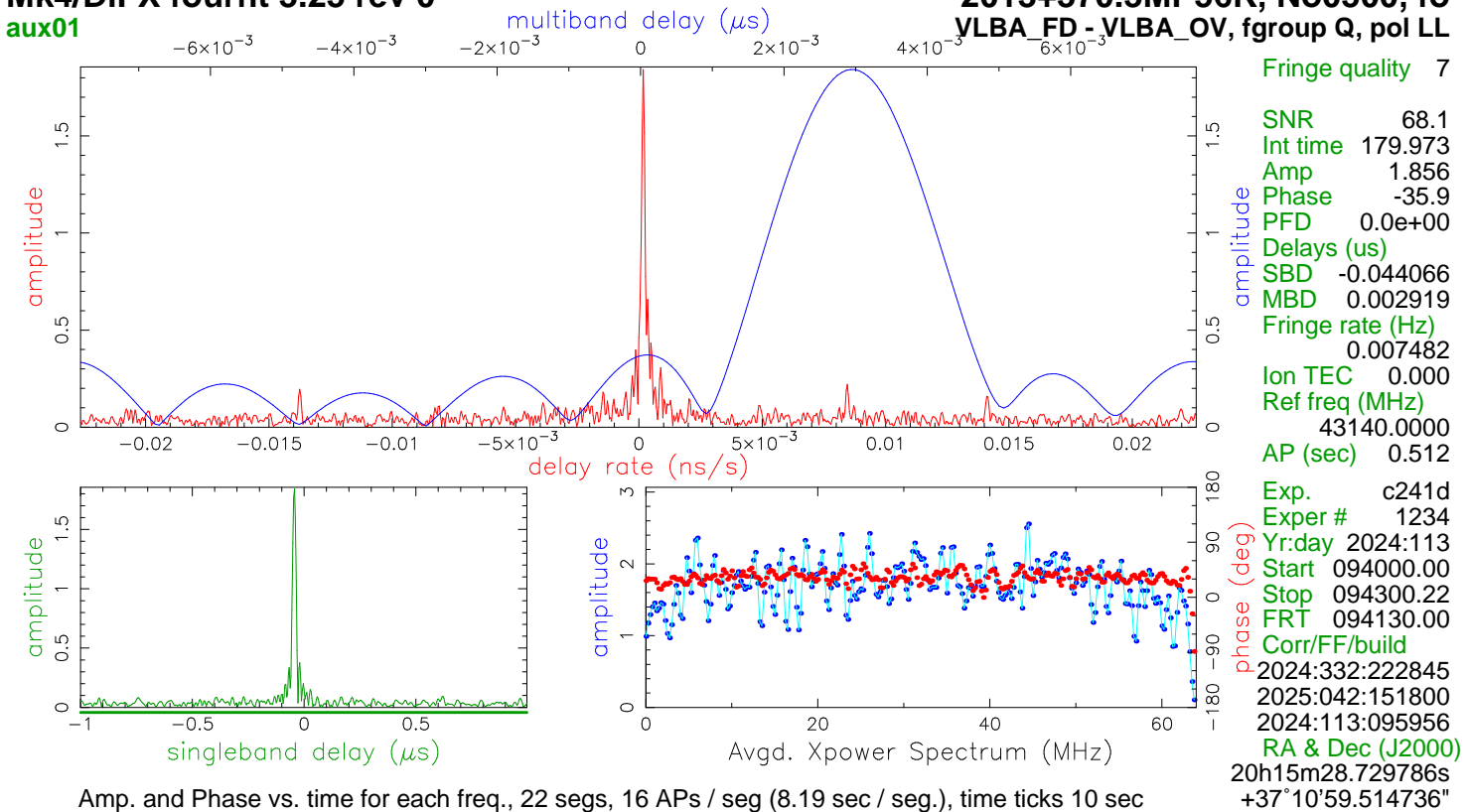
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/bo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/bo.Q.87.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

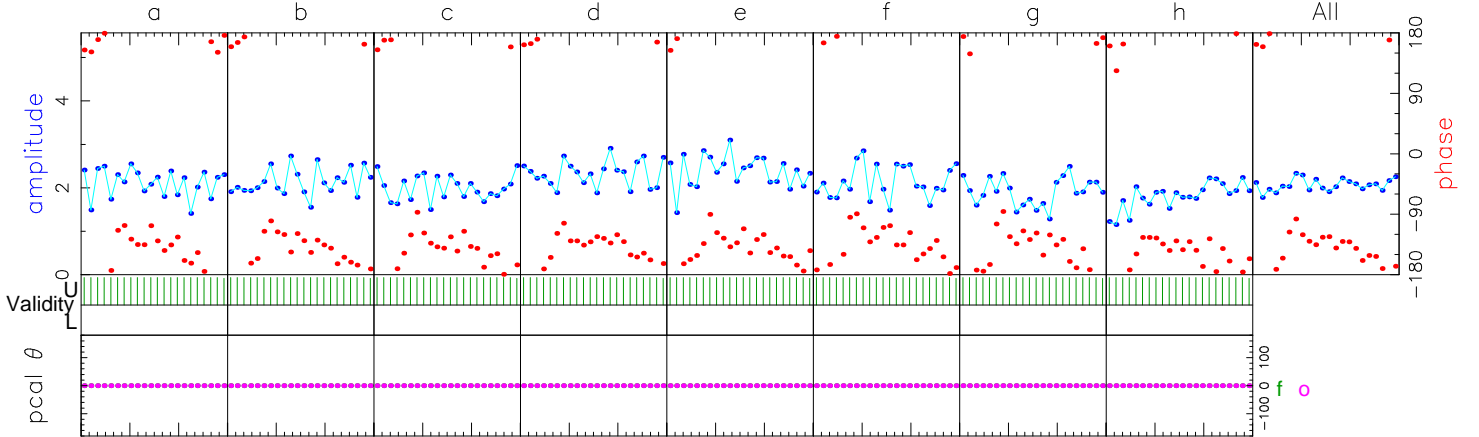
aux01

2013+370.3MP56K, No0500, fo

VLBA_FD - VLBA_OV, fgroup Q, pol LL



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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-155.9	-149.7	-150.7	-147.1	-143.0	-139.7	-150.1	-153.1	Phase	-148.4
	1.8	1.9	1.7	2.1	2.2	1.9	1.6	1.6	Ampl.	1.8
	245.7	245.9	245.7	245.7	245.7	245.8	245.5	245.7	Sbd box	245.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	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	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	2.30643262397E+03					2.30647657966E+03			Resid mbdelay (usec)	2.91931E-03 +/- 1.6E-05
Sband delay (usec)	2.30643251416E+03					-2.4995510E+01			Resid sbdelay (usec)	-4.40655E-02 +/- 1.3E-04
Phase delay (usec)	2.30647657011E+03					-4.3105211E-07			Resid phdelay (usec)	-9.55404E-06 +/- 1.1E-07
Delay rate (us/s)	-6.48184221479E-02					-6.48185955760E-02			Resid rate (us/s)	1.73428E-07 +/- 1.0E-09
Total phase (deg)		-163.1				-1.89109025605E-05			Resid phase (deg)	-35.9 +/- 1.7
RMS	27.4	3.9							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	27.4	3.9	Amplitude	1.856 +/- 0.027					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	13.7	6.9	Search (1024X32)	1.837					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	5.7	2.4	Inc. seg. avg.	2.064					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023
amp/frq (%)	10.0	4.2	Inc. frq. avg.	1.847					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
f: az 66.6 el 46.8 pa -82.9			o: az 68.4 el 38.3 pa -68.5			u, v (fr/asec) 225.225 -903.975				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241d/v1/7mm/1234/No0500/fo..3MP56K			Output file: /Exps/c241d/v1/7mm/1234/No0500/fo.Q.141.3MP56K				

Mk4/DiFX fourfit 3.25 rev 0

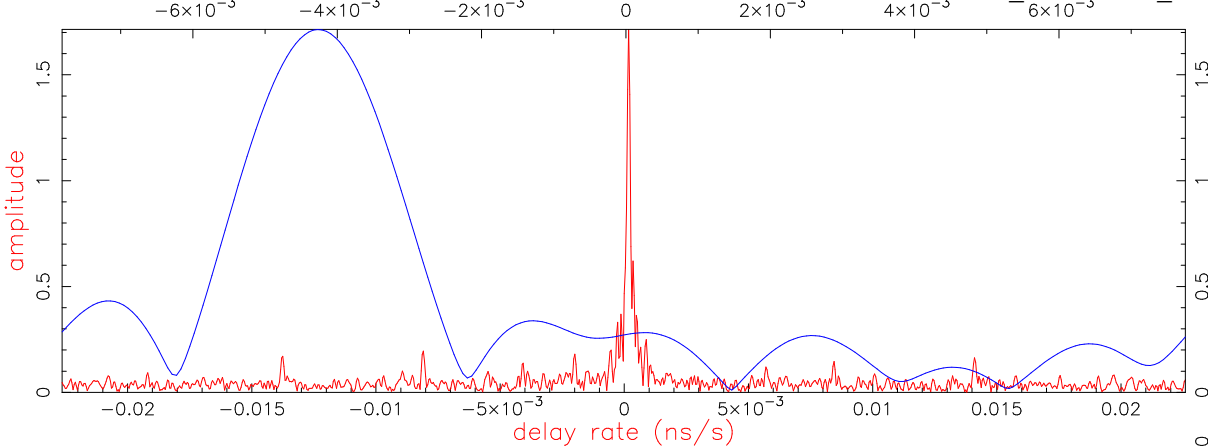
aux01

2013+370.3MP56K, No0500, fo

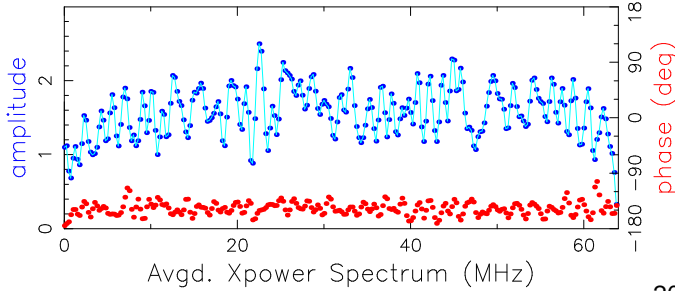
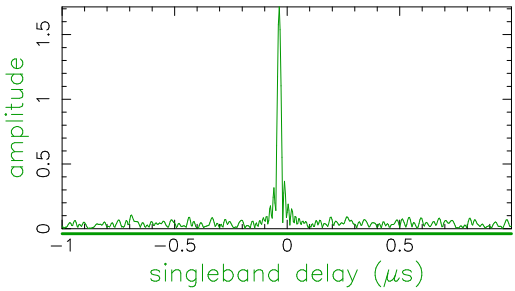
VLBA_FD - VLBA_OV, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 7

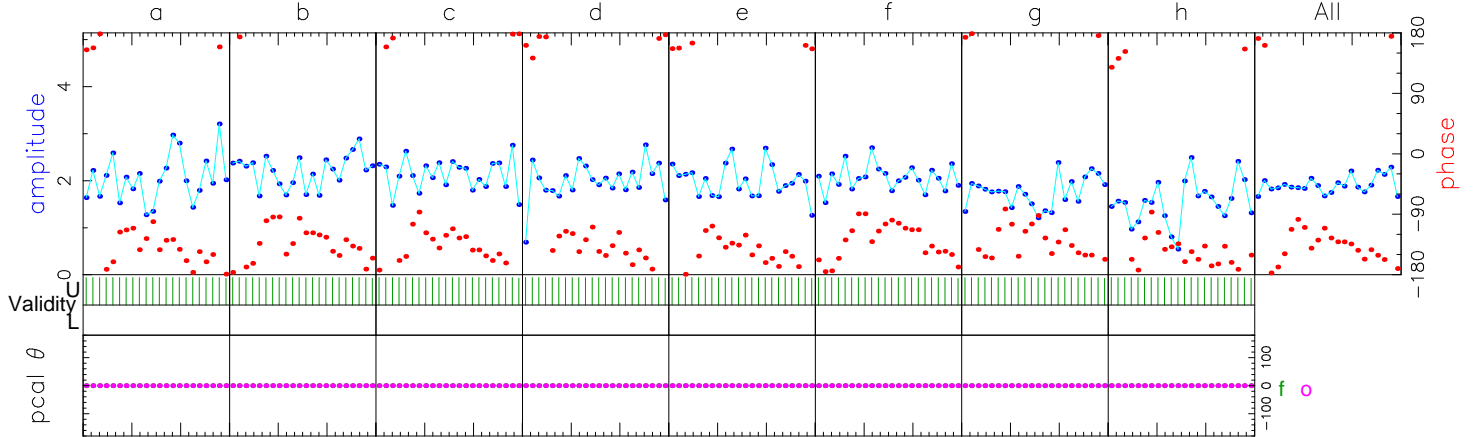


SNR 62.9
 Int time 179.973
 Amp 1.715
 Phase -191.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.035394
 MBD -0.004267
 Fringe rate (Hz) 0.007514
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151802
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	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	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD) 2.30644106269E+03 Apriori delay (usec) 2.30647657966E+03 Resid mbdelay (usec) -4.26697E-03 +/- 1.7E-05
 Sband delay (usec) 2.30644118541E+03 Apriori clock (usec) -2.4995510E+01 Resid sbdelay (usec) -3.53943E-02 +/- 1.4E-04
 Phase delay (usec) 2.30647657026E+03 Apriori clockrate (us/s) -4.3105211E-07 Resid phdelay (usec) -9.40307E-06 +/- 1.2E-07
 Delay rate (us/s) -6.48184213981E-02 Apriori rate (us/s) -6.48185955760E-02 Resid rate (us/s) 1.74178E-07 +/- 1.1E-09
 Total phase (deg) -318.2 Apriori accel (us/s/s) -1.89109025605E-05 Resid phase (deg) -191.0 +/- 1.8

RMS Theor. Amplitude 1.715 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 26.9 4.3 Search (1024X32) 1.700 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 15.3 7.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 11.4 2.6 Inc. seg. avg. 1.907 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 11.8 4.5 Inc. frq. avg. 1.737 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

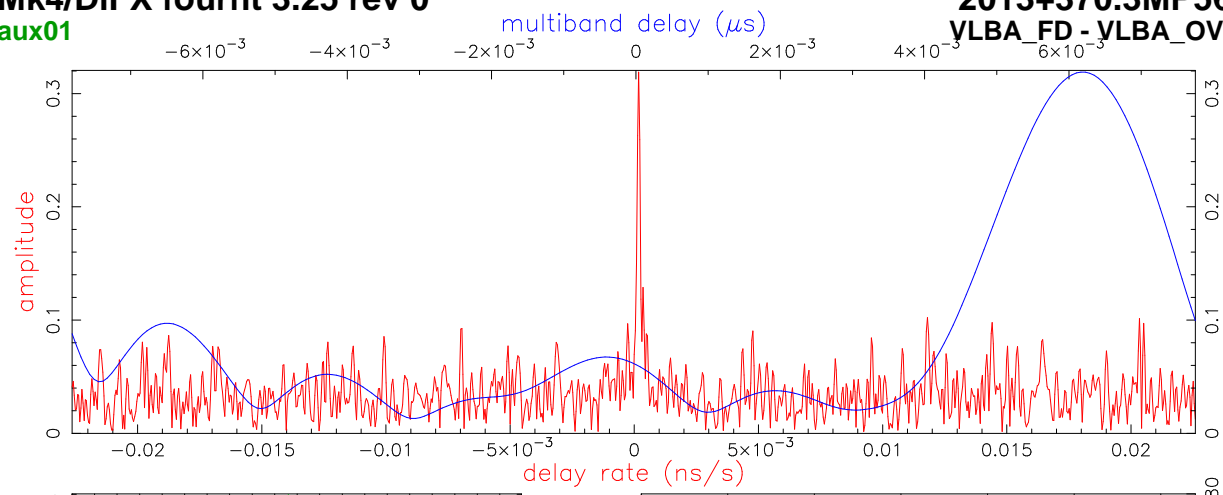
f: az 66.6 el 46.8 pa -82.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 225.225 -903.975 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/fo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/fo.Q.153.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

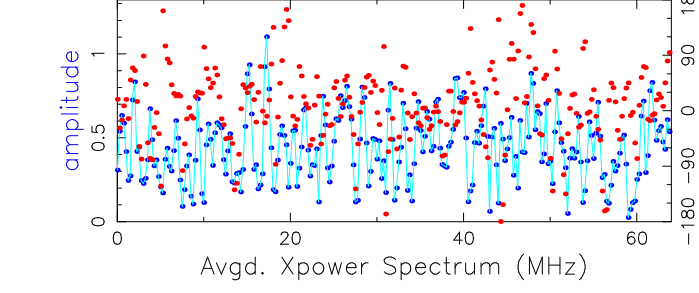
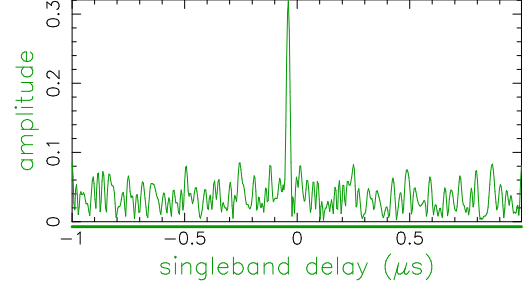
aux01

2013+370.3MP56K, No0500, fo

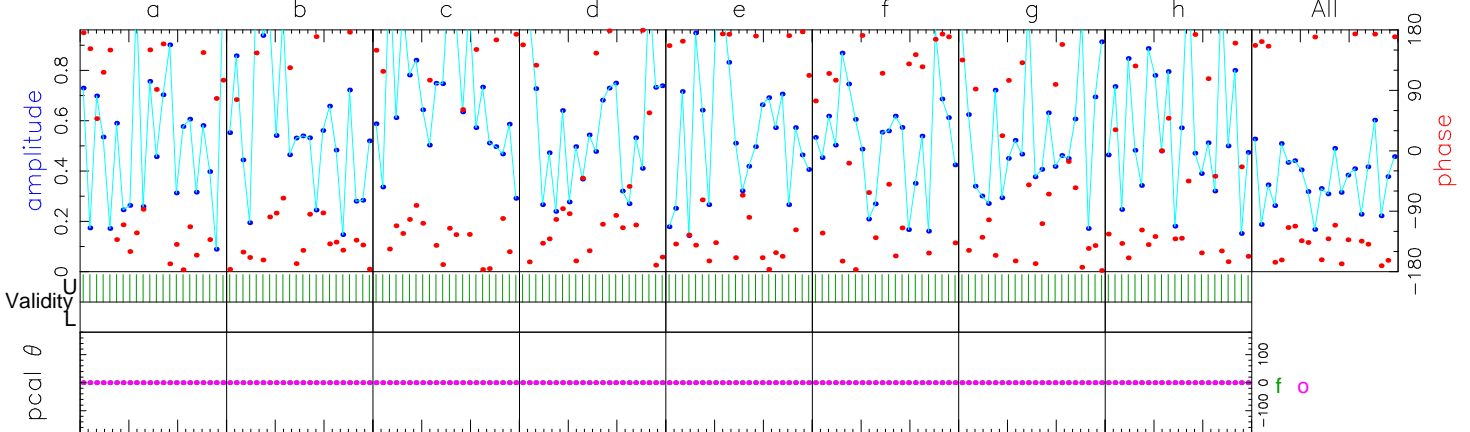
VLBA_FD - VLBA_OV, fgroup Q, pol LR



Fringe quality 9
 SNR 11.8
 Int time 179.973
 Amp 0.320
 Phase -45.5
 PFD 1.6e-23
 Delays (us)
 SBD -0.039928
 MBD 0.006158
 Fringe rate (Hz) 0.007546
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151807
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"



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



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

Group delay (usec) (SBD)	2.30643586291E+03	Apriori delay (usec)	2.30647657966E+03	Resid mbdelay (usec)	6.15825E-03	+/-	9.2E-05
Sband delay (usec)	2.30643665116E+03	Apriori clock (usec)	-2.4995510E+01	Resid sbdelay (usec)	-3.99285E-02	+/-	7.3E-04
Phase delay (usec)	2.30647656949E+03	Apriori clockrate (us/s)	-4.3105211E-07	Resid phdelay (usec)	-1.01738E-05	+/-	6.3E-07
Delay rate (us/s)	-6.48184206482E-02	Apriori rate (us/s)	-6.48185955760E-02	Resid rate (us/s)	1.74928E-07	+/-	6.0E-09
Total phase (deg)	-172.7	Apriori accel (us/s/s)	-1.89109025605E-05	Resid phase (deg)	-45.5	+/-	9.7

ph/seg (deg)	29.8	Theor.	Amplitude	0.320 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	38.1	22.9	Search (1024X32)	0.315	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	17.6	13.8	Inc. seg. avg.	0.343	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.023	0.023
amp/frq (%)	28.3	24.1	Inc. frq. avg.	0.320	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

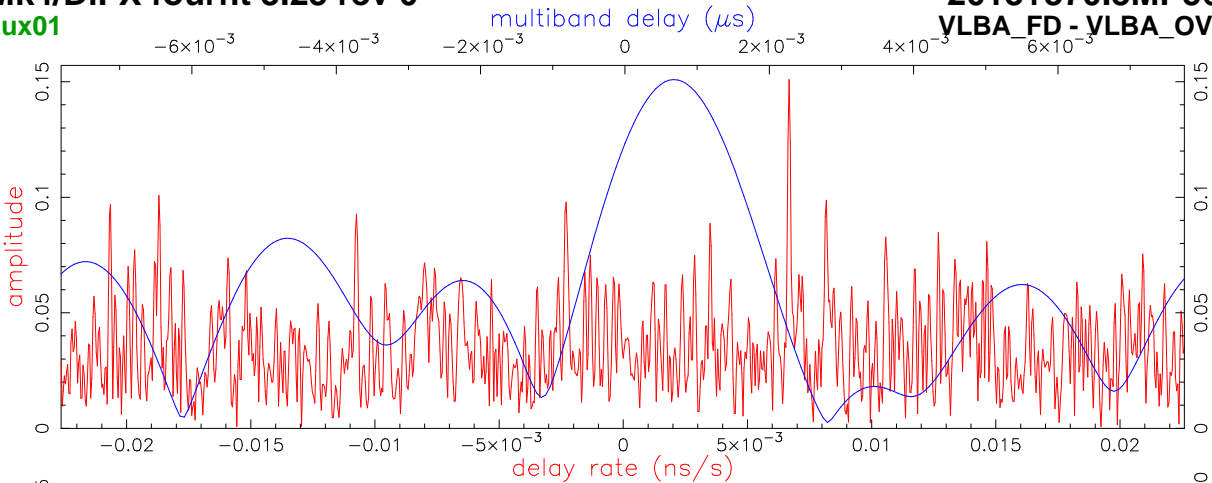
f: az 66.6 el 46.8 pa -82.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 225.225 -903.975 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/fo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/fo.Q.173.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

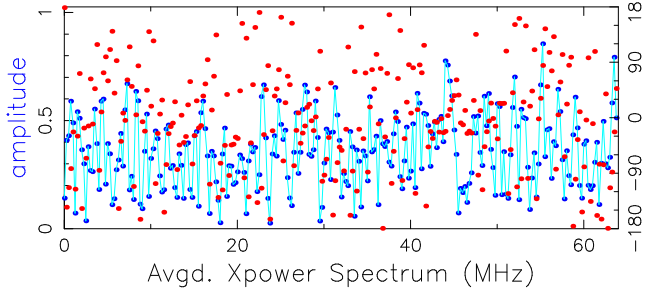
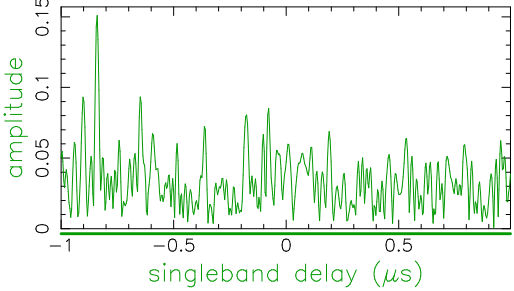
2013+370.3MP56K, No0500, fo

VLBA_FD - VLBA_OV, fgroup Q, pol RL



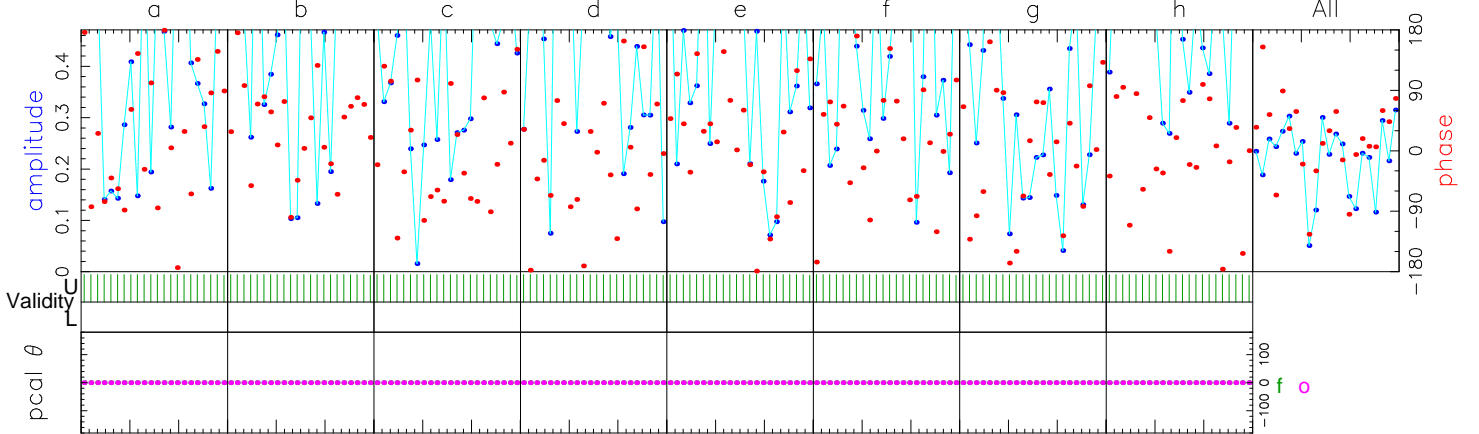
Fringe quality 0

SNR 5.6
 Int time 179.973
 Amp 0.157
 Phase -105.3
 PFD 9.6e-01
 Delays (us)
 SBD -0.840621
 MBD 0.000669
 Fringe rate (Hz) 0.290032
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151812
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD)	2.30563349899E+03	Apriori delay (usec)	2.30647657966E+03	Resid mbdelay (usec)	6.69332E-04	+/-	2.0E-04
Sband delay (usec)	2.30563595916E+03	Apriori clock (usec)	-2.4995510E+01	Resid sbdelay (usec)	-8.40621E-01	+/-	1.6E-03
Phase delay (usec)	2.30647658158E+03	Apriori clockrate (us/s)	-4.3105211E-07	Resid phdelay (usec)	1.91376E-06	+/-	1.3E-06
Delay rate (us/s)	-6.48118725327E-02	Apriori rate (us/s)	-6.48185955760E-02	Resid rate (us/s)	6.72304E-06	+/-	1.3E-08
Total phase (deg)	-232.5	Apriori accel (us/s/s)	-1.89109025605E-05	Resid phase (deg)	-105.3	+/-	20.6

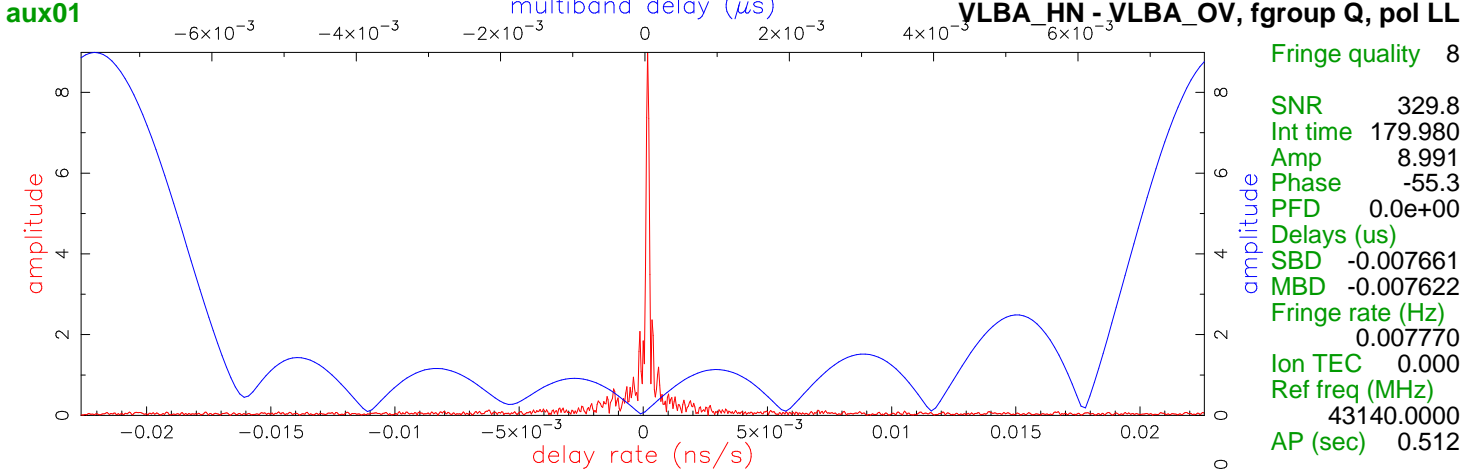
ph/seg (deg)	61.7	Theor.	48.4	Amplitude	0.157 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	64.5	Search (1024X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	31.6	Inc. seg. avg.	0.169	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	61.9	Inc. frq. avg.	0.151	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.023 0.023	
f: az 66.6 el 46.8 pa -82.9		o: az 68.4 el 38.3 pa -68.5		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/c241d/v1/7mm/1234/No0500/fo..3MP56K		u,v (fr/asec) 225.225 -903.975		simultaneous interpolator		
				Output file: /Exps/c241d/v1/7mm/1234/No0500/fo.Q.201.3MP56K				

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, ho

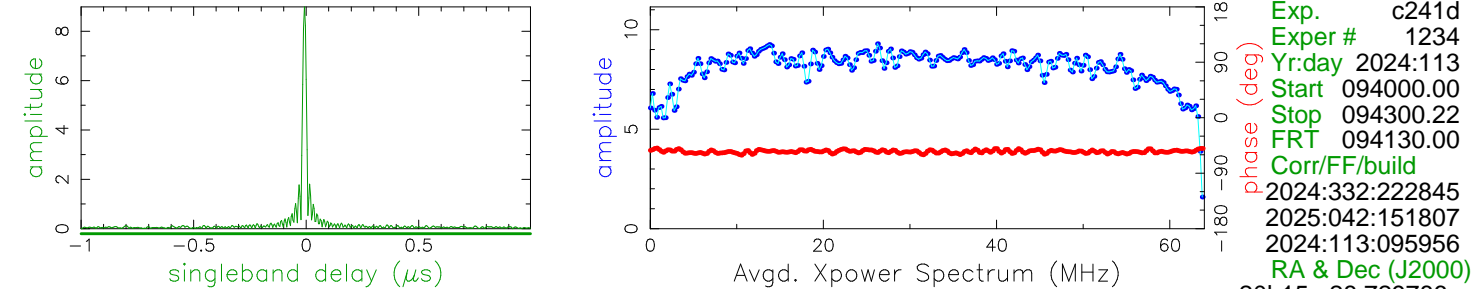
VLBA_HN - VLBA_OV, fgroup Q, pol LL



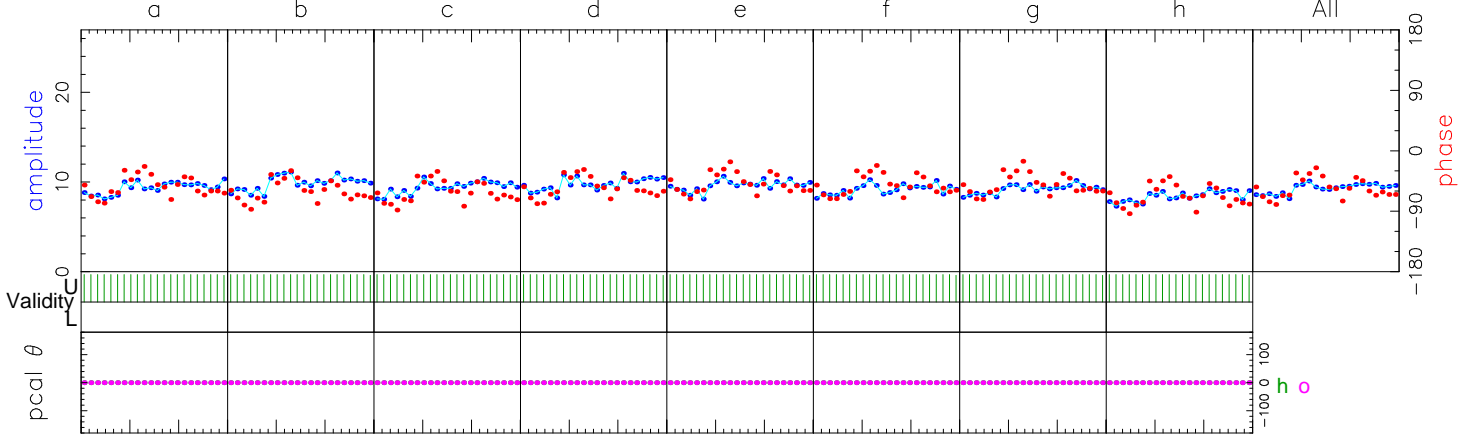
Fringe quality 8

SNR 329.8
 Int time 179.980
 Amp 8.991
 Phase -55.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.007661
 MBD -0.007622
 Fringe rate (Hz) 0.007770
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151807
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-52.9	-59.6	-61.2	-54.3	-47.7	-50.8	-49.9	-67.6	Phase	-55.3
	9.0	9.6	9.1	9.5	9.3	8.9	8.9	8.1	Ampl.	9.0
	255.1	255.0	255.1	255.0	255.2	254.9	254.9	254.8	Sbd box	255.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
h	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
h:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
h:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
h	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
h	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	7.17073130056E+03		Apriori delay (usec)		7.17073892247E+03		Resid mbdelay (usec)		-7.62191E-03	+/- 3.3E-06
Sband delay (usec)	7.17073126172E+03		Apriori clock (usec)		-1.2630741E+01		Resid sbdelay (usec)		-7.66075E-03	+/- 2.6E-05
Phase delay (usec)	7.17073891891E+03		Apriori clockrate (us/s)		-4.0233507E-07		Resid phdelay (usec)		-3.56382E-06	+/- 2.2E-08
Delay rate (us/s)	-5.93653936436E-01		Apriori rate (us/s)		-5.93654116551E-01		Resid rate (us/s)		1.80115E-07	+/- 2.1E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.30041969853E-05		Resid phase (deg)		-55.3	+/- 0.3

ph/seg (deg) 14.9 0.8
 amp/seg (%) 6.8 1.4
 ph/frq (deg) 7.3 0.5
 amp/frq (%) 4.7 0.9

RMS Theor. Amplitude 8.991 +/- 0.027
 Search (1024X32) 8.852
 Interp. 0.000
 Inc. seg. avg. 9.298
 Inc. frq. avg. 9.042

h: az 103.5 el 73.6 pa -63.0
 o: az 68.4 el 38.3 pa -68.5
 u,v (fr/asec) 2126.524 -732.368

Group delay (usec) (SBD) 7.17073130056E+03
 Apriori delay (usec) 7.17073892247E+03
 Resid mbdelay (usec) -7.62191E-03
 Sband delay (usec) 7.17073126172E+03
 Apriori clock (usec) -1.2630741E+01
 Resid sbdelay (usec) -7.66075E-03
 Phase delay (usec) 7.17073891891E+03
 Apriori clockrate (us/s) -4.0233507E-07
 Resid phdelay (usec) -3.56382E-06
 Delay rate (us/s) -5.93653936436E-01
 Apriori rate (us/s) -5.93654116551E-01
 Resid rate (us/s) 1.80115E-07
 Total phase (deg) -13.8
 Apriori accel (us/s/s) -3.30041969853E-05
 Resid phase (deg) -55.3

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.023 0.023
 ion window (TEC) 0.00 0.00

simultaneous interpolator

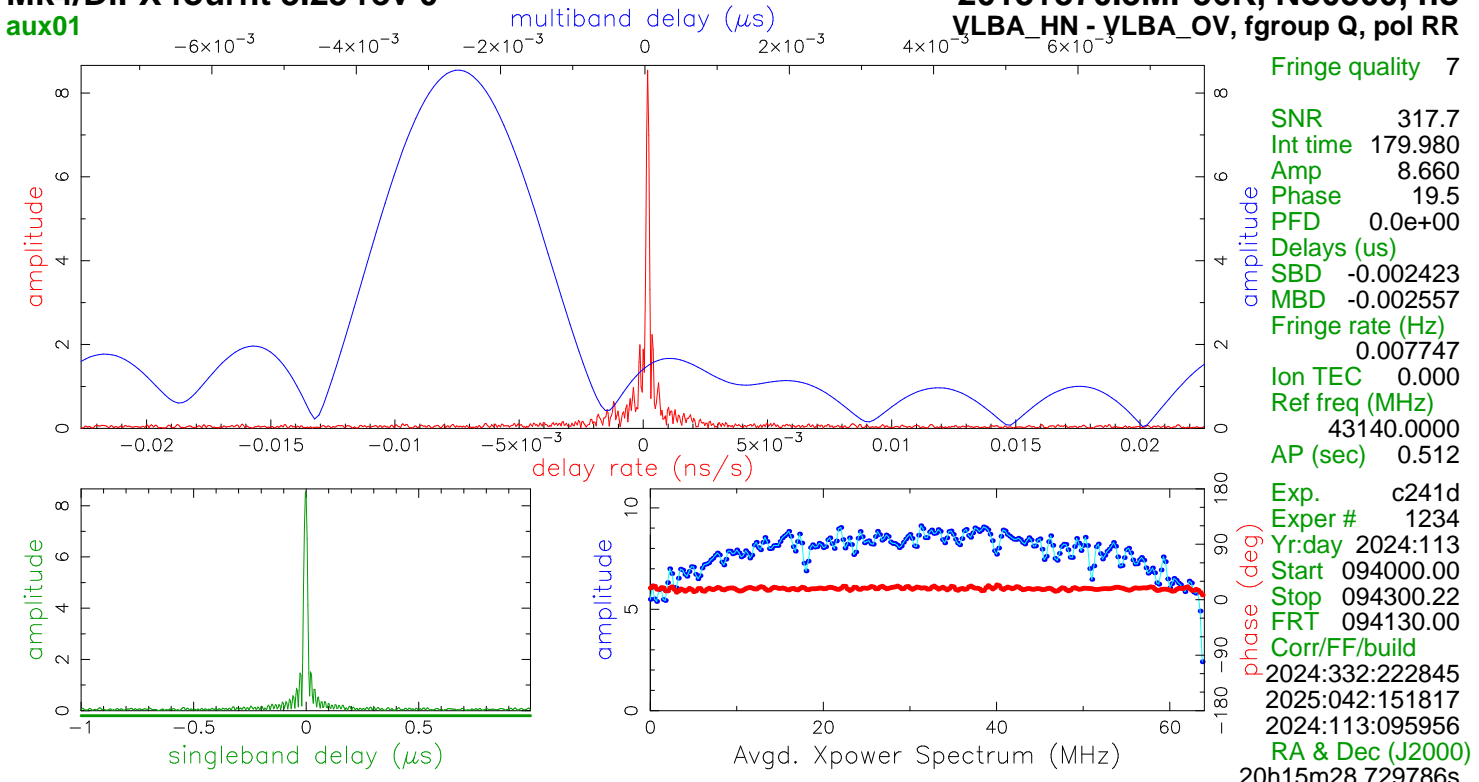
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/ho..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/ho.Q.170.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

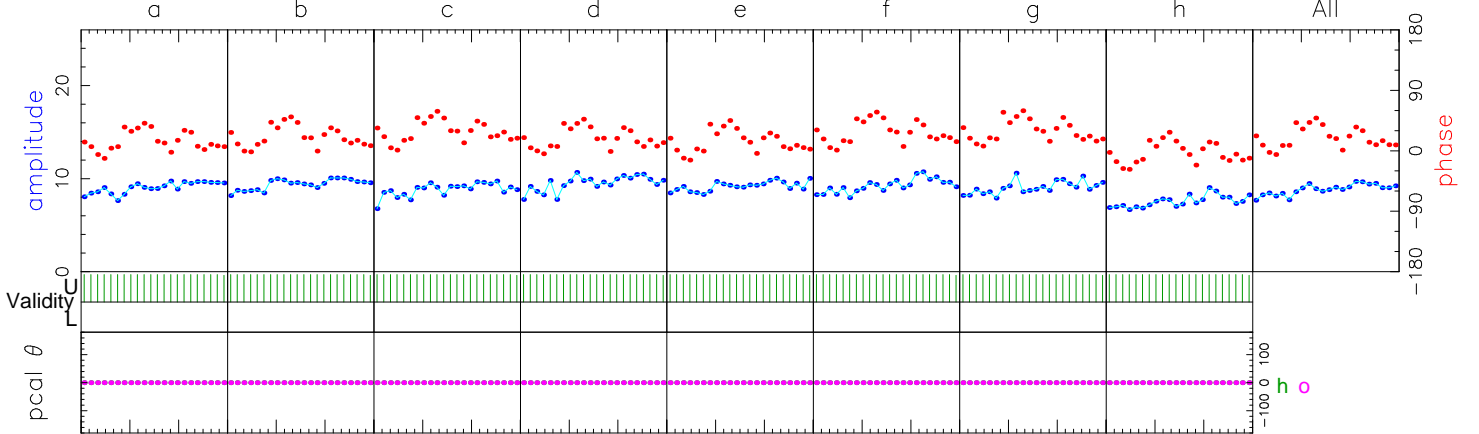
aux01

2013+370.3MP56K, No0500, ho

VLBA_HN - VLBA_OV, fgroup Q, pol RR



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



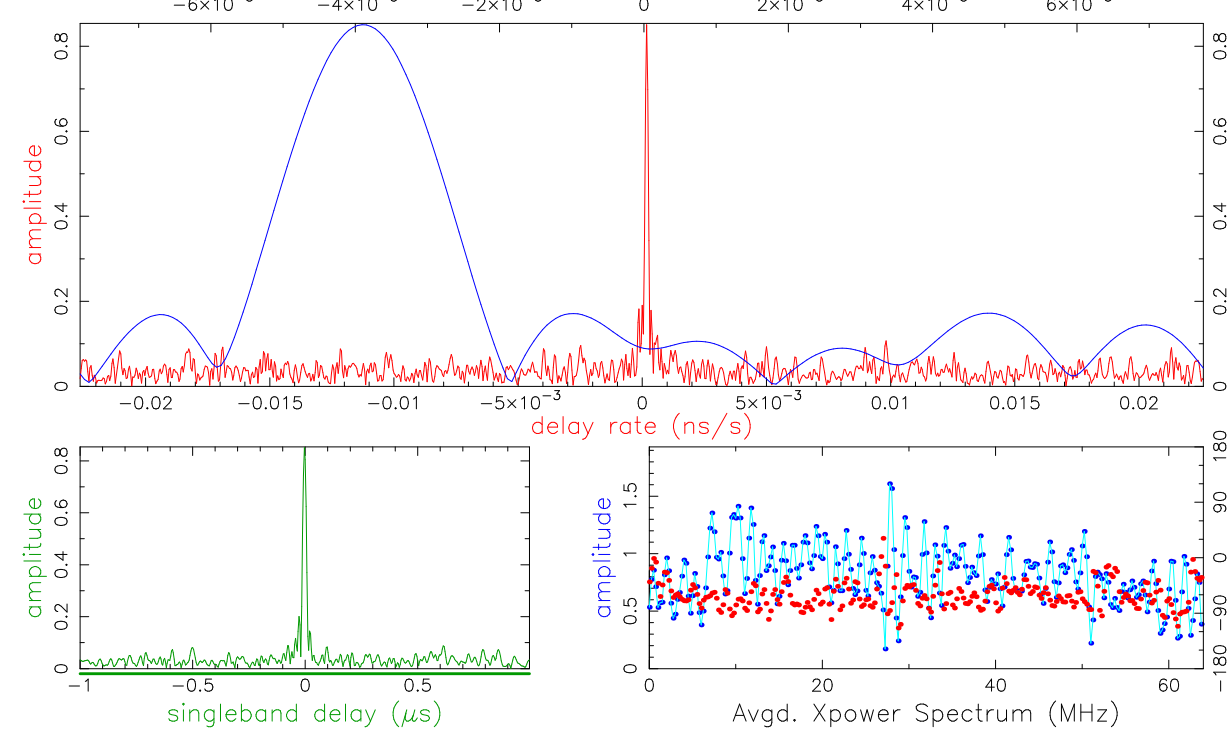
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
14.4	21.4	29.1	18.8	13.7	27.8	30.0	-2.7		Phase	19.5
8.8	9.1	8.5	9.2	8.8	8.9	8.7	7.3		Ampl.	8.7
256.6	256.6	256.4	256.1	256.6	256.3	256.0	256.2		Sbd box	256.4
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		APs used	
h 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
o 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
h:0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
h:0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Manl PC	
h 1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000			
h	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
Group delay (usec) (SBD)	7.17073636550E+03		Apriori delay (usec)	7.17073892247E+03	Resid mbdelay (usec)	-2.55697E-03	+/-	3.4E-06		
Sband delay (usec)	7.17073649972E+03		Apriori clock (usec)	-1.2630741E+01	Resid sbdelay (usec)	-2.42275E-03	+/-	2.7E-05		
Phase delay (usec)	7.17073892373E+03		Apriori clockrate (us/s)	-4.0233507E-07	Resid phdelay (usec)	1.25831E-06	+/-	2.3E-08		
Delay rate (us/s)	-5.93653936974E-01		Apriori rate (us/s)	-5.93654116551E-01	Resid rate (us/s)	1.79577E-07	+/-	2.2E-10		
Total phase (deg)		61.1	Apriori accel (us/s/s)	-3.30041969853E-05	Resid phase (deg)	19.5	+/-	0.4		
RMS	Theor.	Amplitude	8.660 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5					
ph/seg (deg)	15.1	0.8	Search (1024X32)	8.433	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	6.8	1.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	11.7	0.5	Inc. seg. avg.	8.847	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023		
amp/frq (%)	6.3	0.9	Inc. frq. avg.	8.667	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	
h: az 103.5 el 73.6 pa -63.0		o: az 68.4 el 38.3 pa -68.5		u,v (fr/asec) 2126.524 -732.368					simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241d/v1/7mm/1234/No0500/ho..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/ho.Q.229.3MP56K						

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, ho

VLBA_HN - VLBA_OV, fgroup Q, pol LR

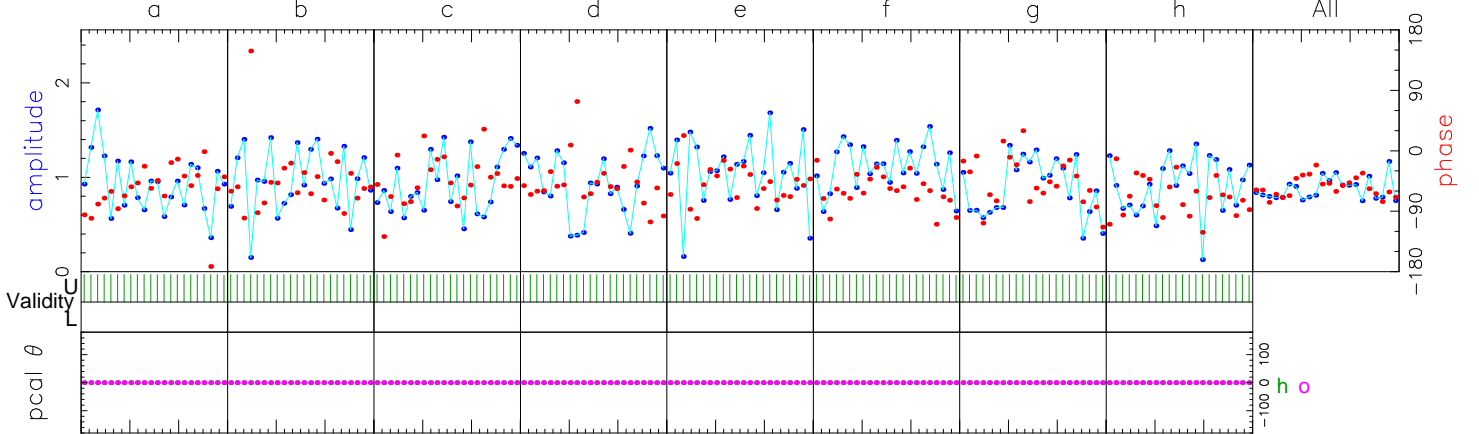


Fringe quality 9

SNR 31.3
 Int time 179.980
 Amp 0.854
 Phase -54.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.003130
 MBD -0.003873
 Fringe rate (Hz) 0.008011
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151822
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s
 +37°10'59.514736"

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



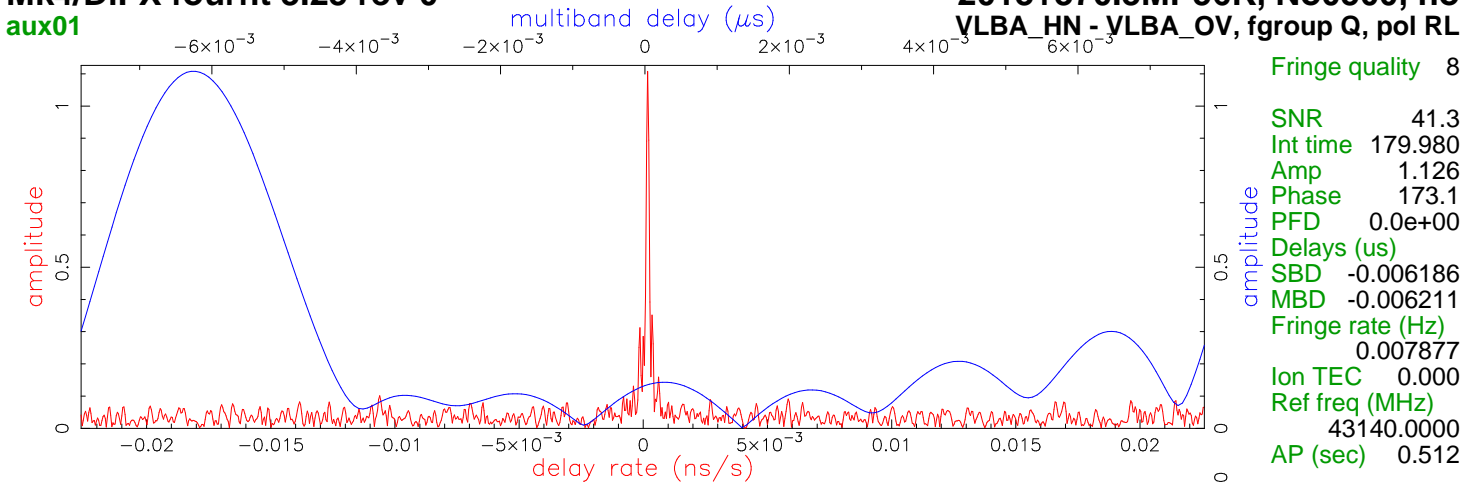
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All	
	-57.1	-56.8	-42.4	-56.3	-51.1	-58.1	-39.9	-67.6	Phase	-54.0	
	0.8	0.9	0.8	0.8	1.0	1.0	0.7	0.8	Ampl.	0.9	
	256.1	256.4	256.4	256.1	256.0	256.2	256.1	256.1	Sbd box	256.2	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
h	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
h:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
h:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
h	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
h	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	7.17073504947E+03		Apriori delay (usec)		7.17073892247E+03		Resid mbdelay (usec)		-3.87300E-03	+/- 3.5E-05	
Sband delay (usec)	7.17073579247E+03		Apriori clock (usec)		-1.2630741E+01		Resid sbdelay (usec)		-3.13000E-03	+/- 2.7E-04	
Phase delay (usec)	7.17073891900E+03		Apriori clockrate (us/s)		-4.0233507E-07		Resid phdelay (usec)		-3.47409E-06	+/- 2.4E-07	
Delay rate (us/s)	-5.93653930856E-01		Apriori rate (us/s)		-5.93654116551E-01		Resid rate (us/s)		1.85695E-07	+/- 2.3E-09	
Total phase (deg)			Apriori accel (us/s/s)		-3.30041969853E-05		Resid phase (deg)		-54.0	+/- 3.7	
	RMS	Theor.	Amplitude	0.854 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	14.5	8.6	Search (1024X32)	0.843		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	13.5	15.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	9.7	5.2	Inc. seg. avg.	0.867		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.023 0.023	
amp/frq (%)	10.2	9.0	Inc. frq. avg.	0.856		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
h: az 103.5 el 73.6 pa -63.0	o: az 68.4 el 38.3 pa -68.5		u,v (fr/asec) 2126.524 -732.368						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0500/ho..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/ho.Q.248.3MP56K								

Mk4/DiFX fourfit 3.25 rev 0

aux01

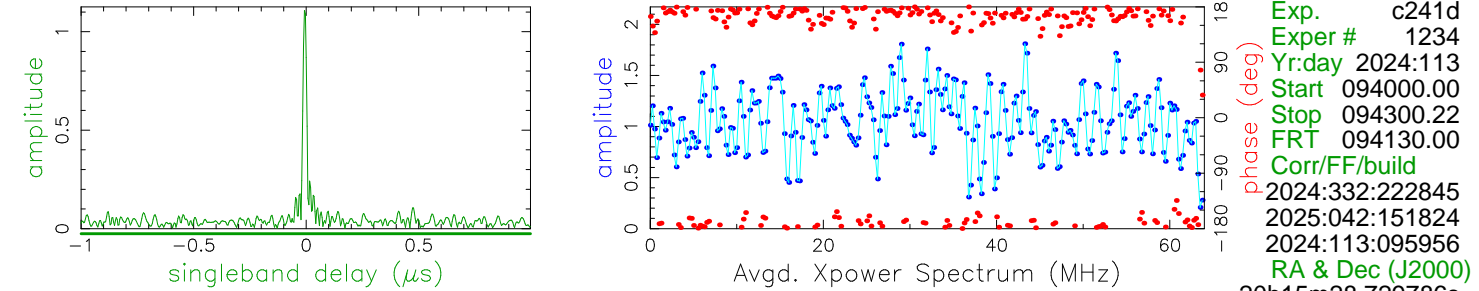
2013+370.3MP56K, No0500, ho

VLBA_HN - VLBA_OV, fgroup Q, pol RL



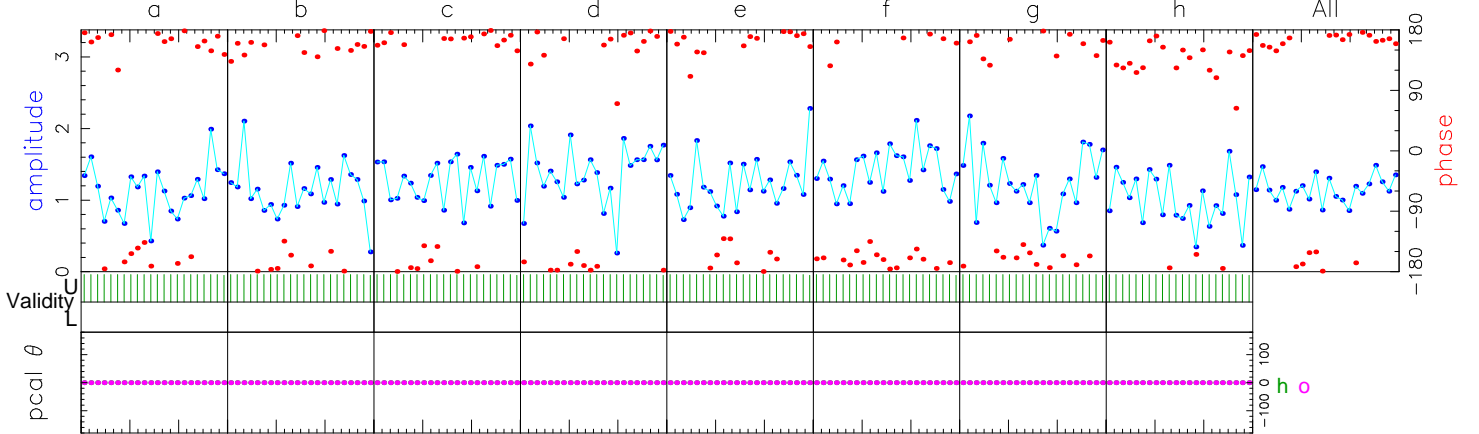
Fringe quality 8

SNR 41.3
 Int time 179.980
 Amp 1.126
 Phase 173.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.006186
 MBD -0.006211
 Fringe rate (Hz)
 0.007877
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151824
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD)	7.17073271125E+03	Apriori delay (usec)	7.17073892247E+03	Resid mbdelay (usec)	-6.21122E-03	+/-	2.6E-05
Sband delay (usec)	7.17073273622E+03	Apriori clock (usec)	-1.2630741E+01	Resid sbdelay (usec)	-6.18625E-03	+/-	2.1E-04
Phase delay (usec)	7.17073893362E+03	Apriori clockrate (us/s)	-4.0233507E-07	Resid phdelay (usec)	1.11450E-05	+/-	1.8E-07
Delay rate (us/s)	-5.93653933966E-01	Apriori rate (us/s)	-5.93654116551E-01	Resid rate (us/s)	1.82585E-07	+/-	1.7E-09
Total phase (deg)	214.7	Apriori accel (us/s/s)	-3.30041969853E-05	Resid phase (deg)	173.1	+/-	2.8

ph/seg (deg)	15.9	Theor.	6.5	Amplitude	1.126 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	15.9		11.4	Search (1024X32)	1.099	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	14.4		3.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.9		6.8	Inc. seg. avg.	1.145	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
				Inc. frq. avg.	1.128	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

h: az 103.5 el 73.6 pa -63.0 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 2126.524 -732.368 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/ho..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/ho.Q.262.3MP56K

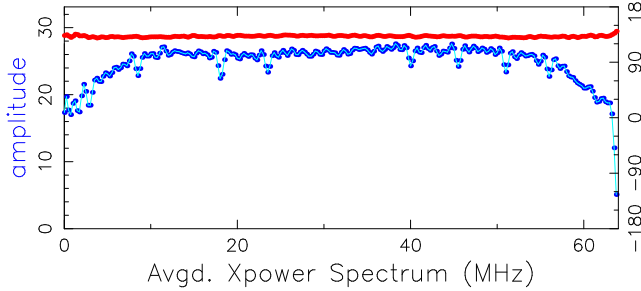
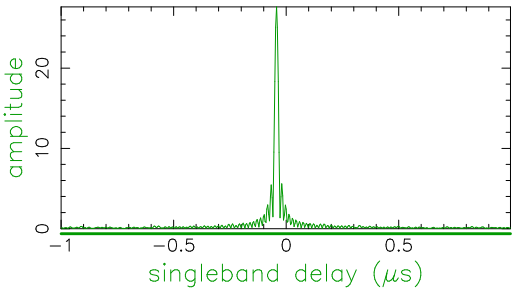
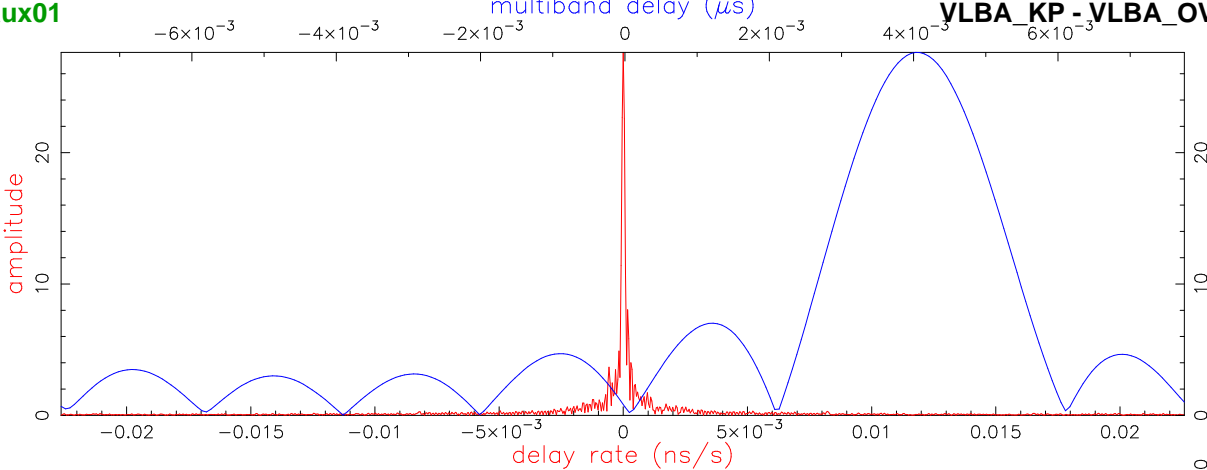
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, ko

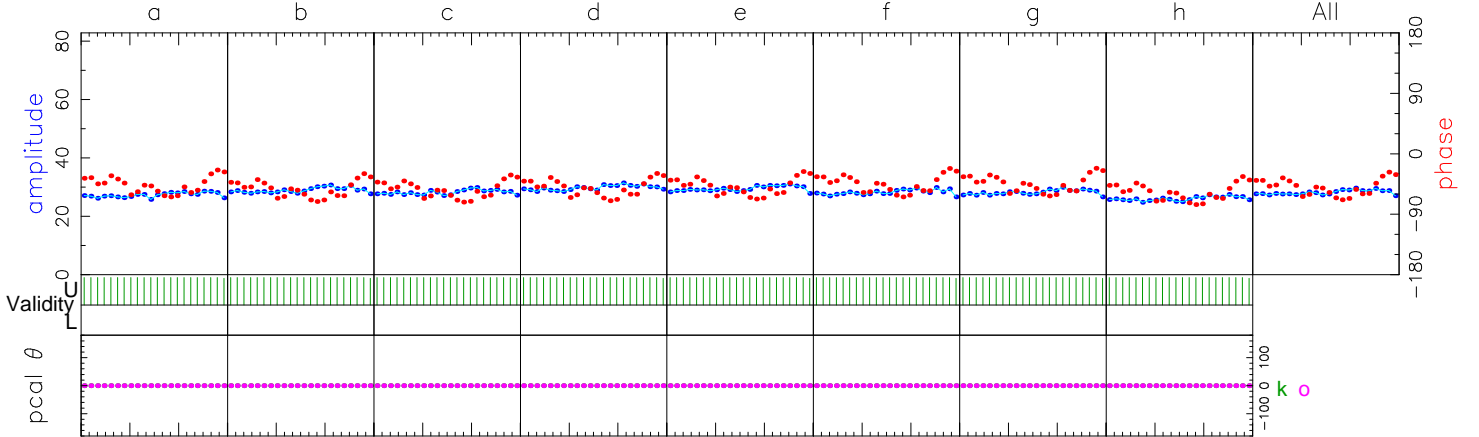
VLBA_KP - VLBA_OV, fgroup Q, pol LL

Fringe quality 8



SNR 1013.6
 Int time 179.984
 Amp 27.628
 Phase -297.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.042965
 MBD 0.004051
 Fringe rate (Hz)
 0.000472
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151811
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-46.2	-52.5	-53.2	-50.5	-48.7	-44.4	-44.2	-56.9	Phase	-49.5
	26.8	28.4	27.7	29.2	28.9	27.6	27.6	25.5	Ampl.	27.7
	246.0	246.0	246.1	246.0	246.1	246.0	245.8	245.8	Sbd box	246.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD) 8.48376261081E+02 Apriori delay (usec) 8.48419084894E+02 Resid mbdelay (usec) 4.05119E-03 +/- 1.1E-06
 Sband delay (usec) 8.48376119644E+02 Apriori clock (usec) -2.4902983E+01 Resid sbdelay (usec) -4.29652E-02 +/- 8.5E-06
 Phase delay (usec) 8.48419081704E+02 Apriori clockrate (us/s) -3.2906598E-07 Resid phdelay (usec) -3.18908E-06 +/- 7.3E-09
 Delay rate (us/s) 2.99586909566E-03 Apriori rate (us/s) 2.99585816196E-03 Resid rate (us/s) 1.09337E-08 +/- 7.0E-11
 Total phase (deg) -181.0 Apriori accel (us/s/s) -9.81124553911E-06 Resid phase (deg) -297.0 +/- 0.1

RMS Theor. Amplitude 27.628 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 11.9 0.3 Search (1024X32) 27.071 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 3.5 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 4.9 0.2 Inc. seg. avg. 28.236 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 4.0 0.3 Inc. frq. avg. 27.702 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 66.3 el 41.3 pa -77.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) -15.337 -560.622 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/ko..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/ko.Q.190.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

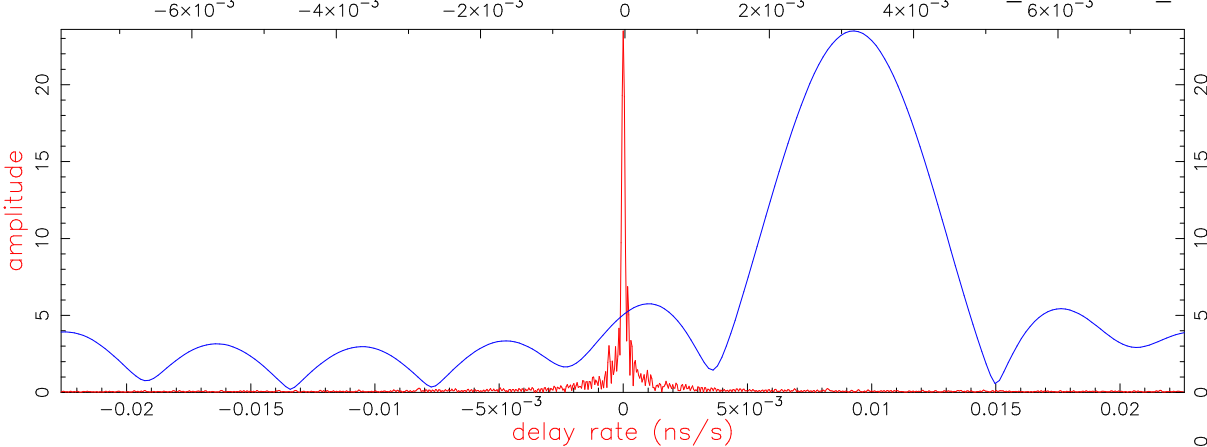
aux01

2013+370.3MP56K, No0500, ko

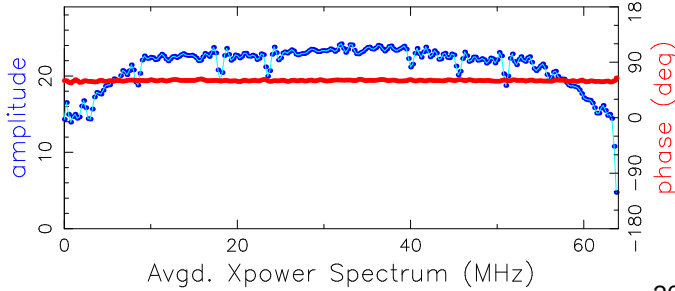
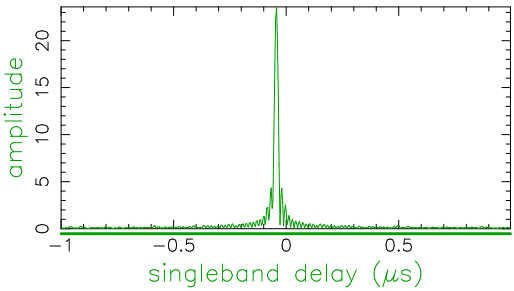
VLBA_KP - VLBA_OV, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 8

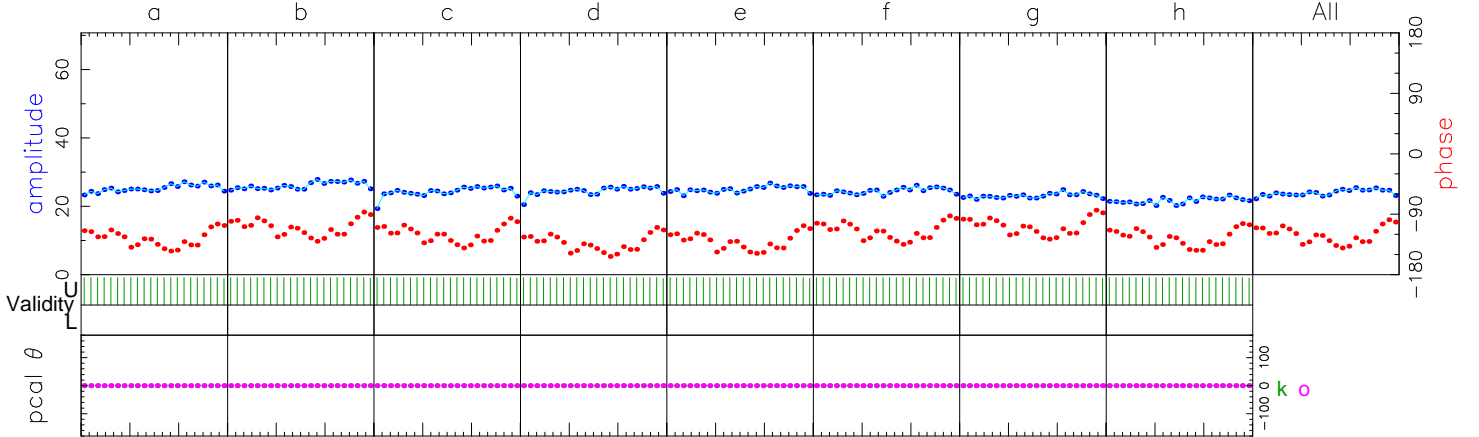


SNR 865.5
Int time 179.986
Amp 23.591
Phase -8.2
PFD 0.0e+00
Delays (us)
SBD -0.043825
MBD 0.003149
Fringe rate (Hz) 0.000479
Ion TEC 0.000
Ref freq (MHz) 43140.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build 2024:332:222845
2025:042:151813
2024:113:095956
RA & Dec (J2000) 20h15m28.729786s
+37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	8.48375358925E+02	Apriori delay (usec)	8.48419084894E+02	Resid mbdelay (usec)	3.14903E-03	+/-	1.3E-06
Sband delay (usec)	8.48375260394E+02	Apriori clock (usec)	-2.4902983E+01	Resid sbdelay (usec)	-4.38245E-02	+/-	1.0E-05
Phase delay (usec)	8.48419077122E+02	Apriori clockrate (us/s)	-3.2906598E-07	Resid phdelay (usec)	-7.77134E-06	+/-	8.5E-09
Delay rate (us/s)	2.99586926543E-03	Apriori rate (us/s)	2.99585816196E-03	Resid rate (us/s)	1.11035E-08	+/-	8.2E-11
Total phase (deg)	-252.2	Apriori accel (us/s/s)	-9.81124553911E-06	Resid phase (deg)	-8.2	+/-	0.1

ph/seg (deg) 12.0 0.3
amp/seg (%) 4.1 0.5
ph/frq (deg) 10.2 0.2
amp/frq (%) 5.3 0.3

RMS Theor. Amplitude 23.591 +/- 0.027
Search (1024X32) 22.675
Interp. 0.000
Inc. seg. avg. 24.012
Inc. frq. avg. 23.768

Group delay (usec) (SBD) 8.48375358925E+02
Sband delay (usec) 8.48375260394E+02
Phase delay (usec) 8.48419077122E+02
Delay rate (us/s) 2.99586926543E-03
Total phase (deg) -252.2

Apriori delay (usec) 8.48419084894E+02
Apriori clock (usec) -2.4902983E+01
Apriori clockrate (us/s) -3.2906598E-07
Apriori rate (us/s) 2.99585816196E-03
Apriori accel (us/s/s) -9.81124553911E-06

Resid mbdelay (usec) 3.14903E-03
Resid sbdelay (usec) -4.38245E-02
Resid phdelay (usec) -7.77134E-06
Resid rate (us/s) 1.11035E-08
Resid phase (deg) -8.2

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.023 0.023
ion window (TEC) 0.00 0.00

simultaneous interpolator

k: az 66.3 el 41.3 pa -77.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) -15.337 -560.622

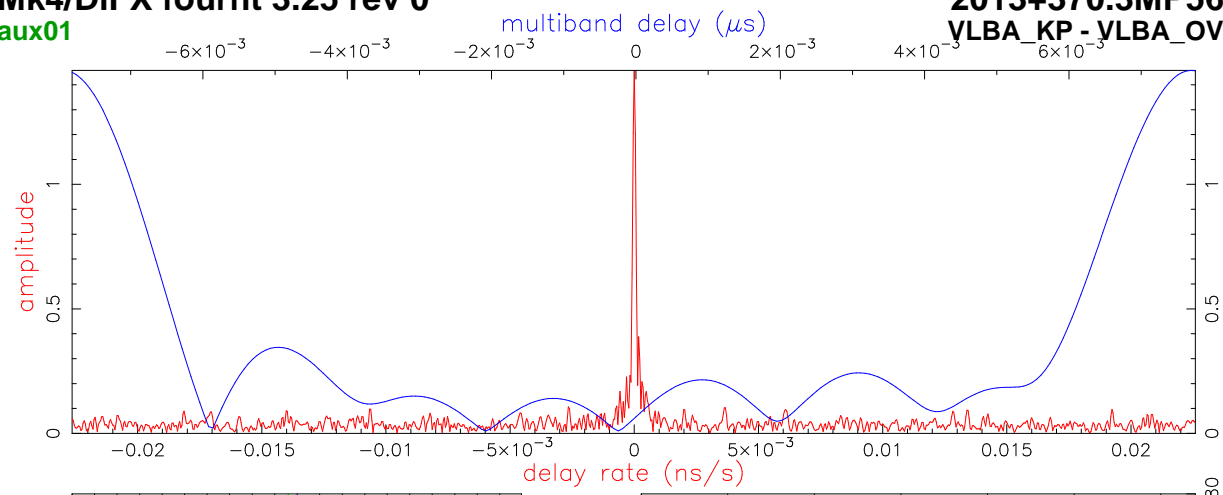
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/ko..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/ko.Q.204.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, ko

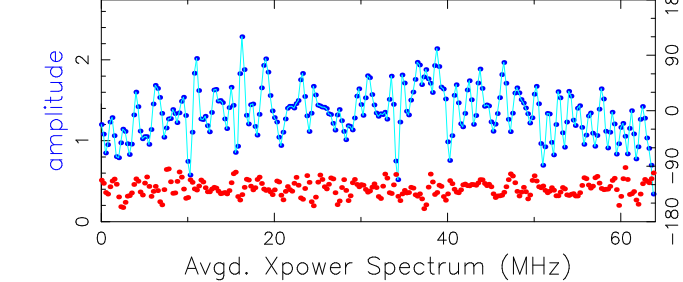
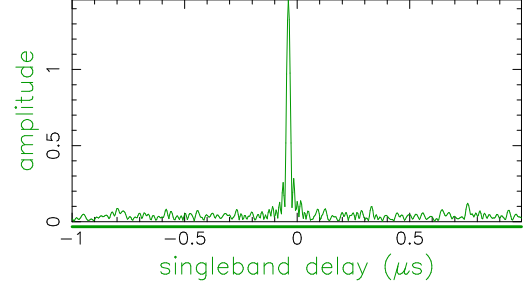
VLBA_KP - VLBA_OV, fgroup Q, pol LR



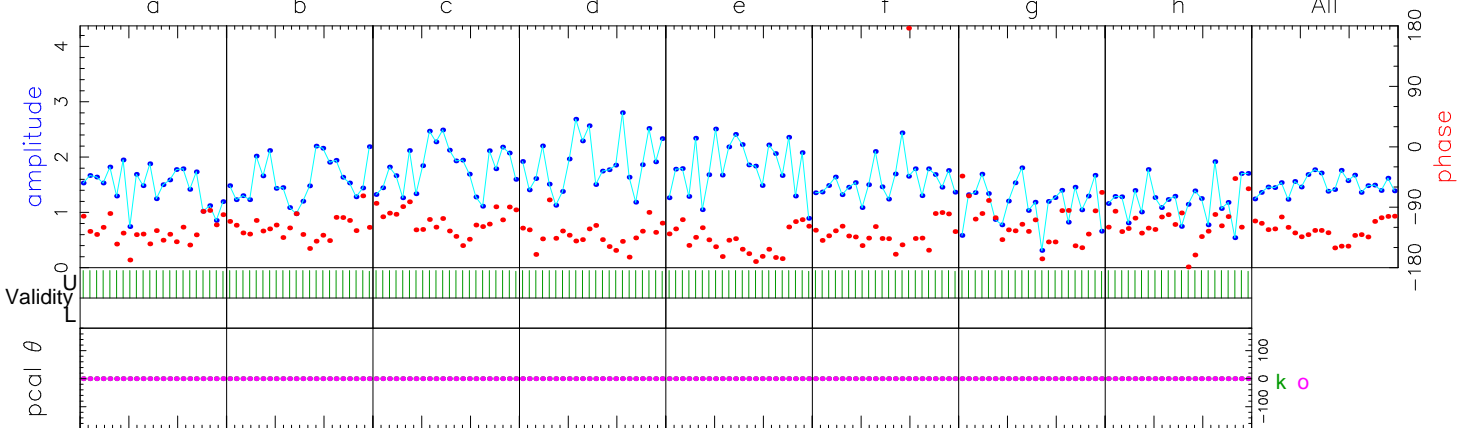
Fringe quality 7

SNR 53.5
 Int time 179.984
 Amp 1.458
 Phase -169.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.039023
 MBD -0.007932
 Fringe rate (Hz) 0.000491
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151815
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"



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



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

Group delay (usec) (SBD)	8.48379903144E+02	Apriori delay (usec)	8.48419084894E+02	Resid mbdelay (usec)	-7.93175E-03	+/-	2.0E-05
Sband delay (usec)	8.48380061394E+02	Apriori clock (usec)	-2.4902983E+01	Resid sbdelay (usec)	-3.90235E-02	+/-	1.6E-04
Phase delay (usec)	8.48419076877E+02	Apriori clockrate (us/s)	-3.2906598E-07	Resid phdelay (usec)	-8.01660E-06	+/-	1.4E-07
Delay rate (us/s)	2.99586953425E-03	Apriori rate (us/s)	2.99585816196E-03	Resid rate (us/s)	1.13723E-08	+/-	1.3E-09
Total phase (deg)		Apriori accel (us/s/s)	-9.81124553911E-06	Resid phase (deg)	-169.5	+/-	2.1

ph/seg (deg) 13.9 5.0 Search (1024X32) 1.432 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 10.8 8.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.7 3.0 Inc. seg. avg. 1.496 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.9 5.3 Inc. frq. avg. 1.480 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 k: az 66.3 el 41.3 pa -77.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) -15.337 -560.622 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/ko..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/ko.Q.213.3MP56K simultaneous interpolator

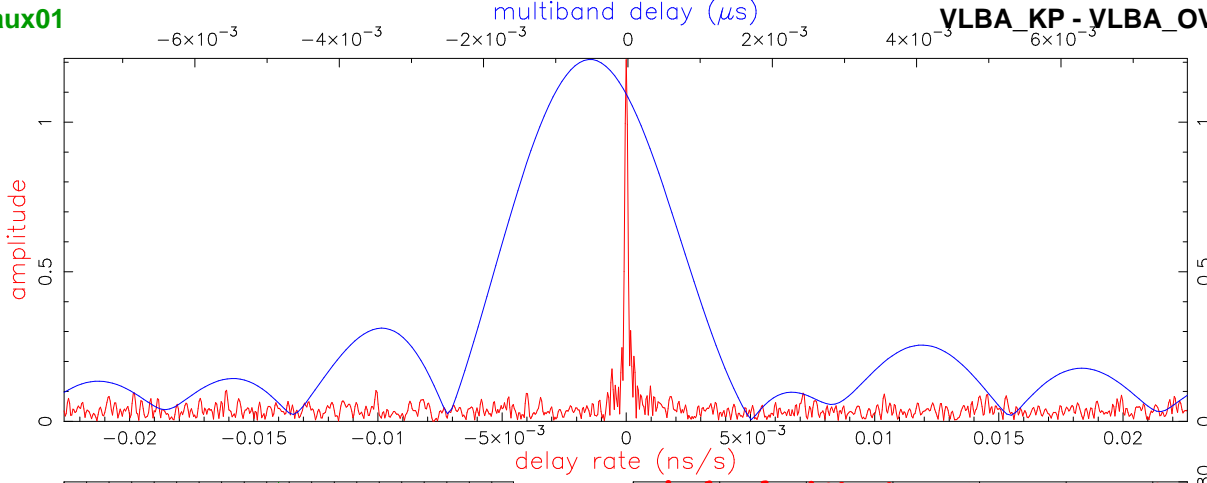
Mk4/DiFX fourfit 3.25 rev 0

aux01

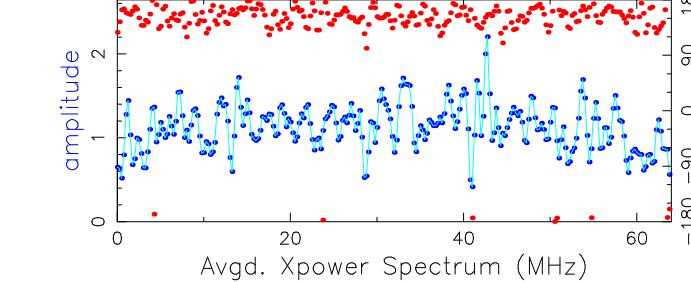
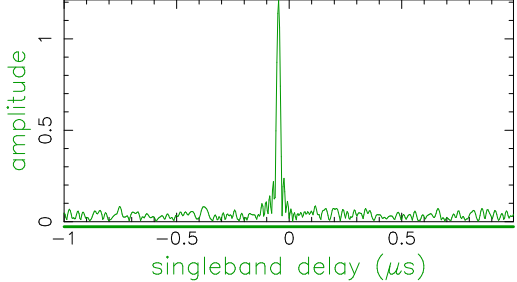
2013+370.3MP56K, No0500, ko

VLBA_KP - VLBA_OV, fgroup Q, pol RL

Fringe quality 9

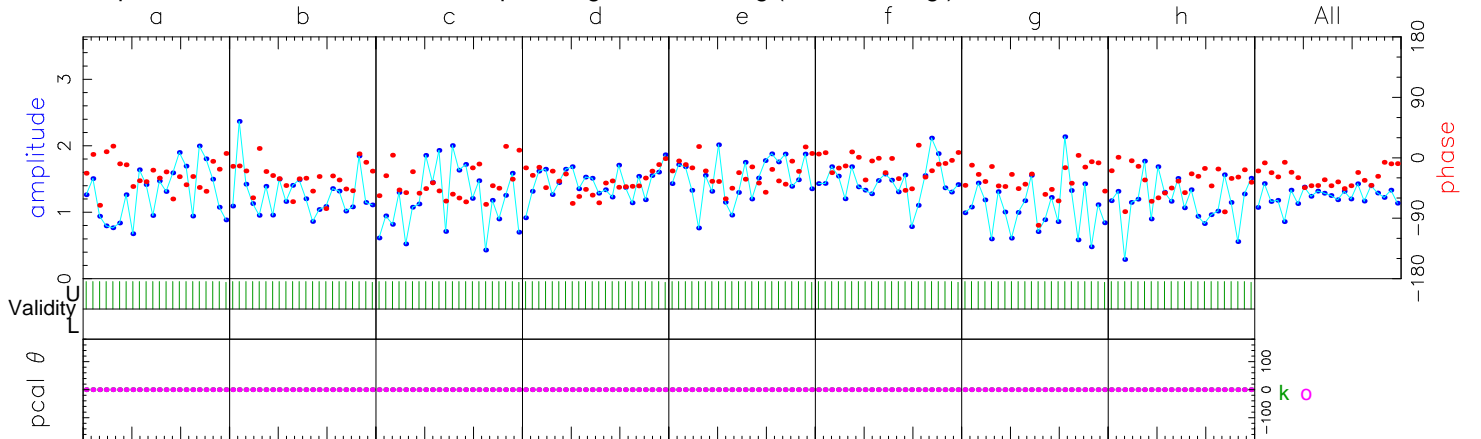


SNR 44.5
Int time 179.986
Amp 1.213
Phase -275.7
PFD 0.0e+00
Delays (us)
SBD -0.047588
MBD -0.000543
Fringe rate (Hz) 0.000520
Ion TEC 0.000
Ref freq (MHz) 43140.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build 2024:332:222845
2025:042:151817
2024:113:095956
RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"

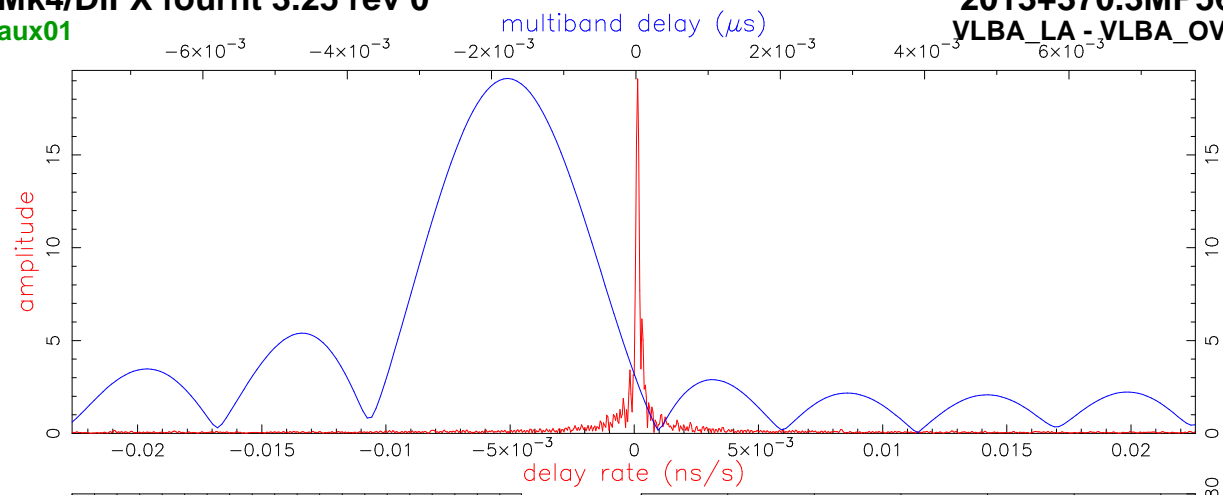
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



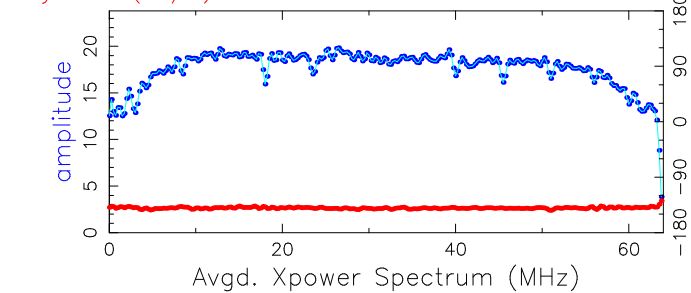
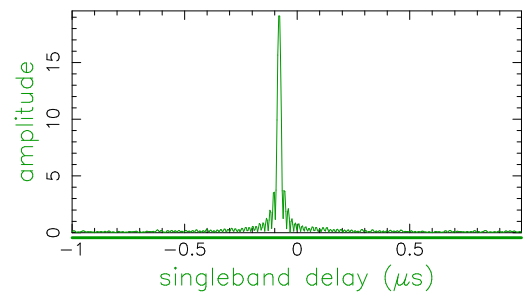
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec) (SBD)	8.48371666800E+02	Apriori delay (usec)		8.48419084894E+02	Resid mbdelay (usec)		-5.43094E-04	+/-	2.4E-05	
Sband delay (usec)	8.48371497144E+02	Apriori clock (usec)		-2.4902983E+01	Resid sbdelay (usec)		-4.75877E-02	+/-	1.9E-04	
Phase delay (usec)	8.48419083081E+02	Apriori clockrate (us/s)		-3.2906598E-07	Resid phdelay (usec)		-1.81257E-06	+/-	1.7E-07	
Delay rate (us/s)	2.99587020487E-03	Apriori rate (us/s)		2.99585816196E-03	Resid rate (us/s)		1.20429E-08	+/-	1.6E-09	
Total phase (deg)		-159.6	Apriori accel (us/s/s)		-9.81124553911E-06	Resid phase (deg)		-275.7	+/-	2.6

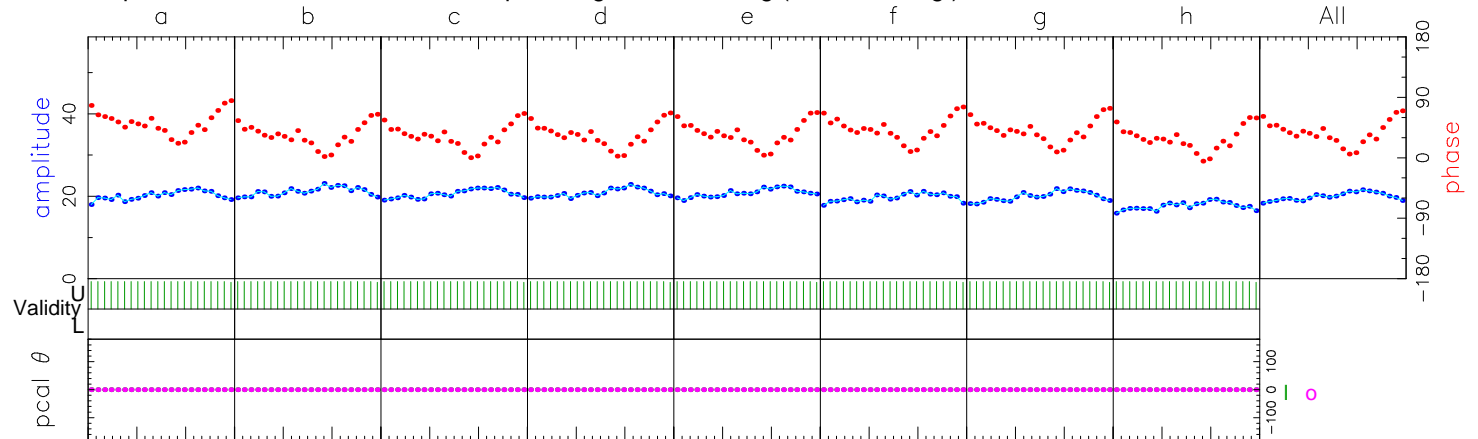
ph/seg (deg) 13.2 6.0 Search (1024X32) 1.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 10.9 10.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 9.4 3.6 Inc. seg. avg. 1.235 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 12.0 6.4 Inc. frq. avg. 1.220 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
k: az 66.3 el 41.3 pa -77.6 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) -15.337 -560.622 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/ko..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/ko.Q.230.3MP56K simultaneous interpolator



Fringe quality 8
SNR 717.5
Int time 179.984
Amp 19.558
Phase -255.4
PFD 0.0e+00
Delays (us)
SBD -0.080077
MBD -0.001731
Fringe rate (Hz) 0.004866
Ion TEC 0.000
Ref freq (MHz) 43140.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2024:332:222845
2025:042:151816
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"



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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	2.30800345789E+03	Apriori delay (usec)		2.30808331417E+03	Resid mbdelay (usec)		-1.73128E-03	+/-	1.5E-06
Sband delay (usec)	2.30800323767E+03	Apriori clock (usec)		-3.3352531E+01	Resid sbdelay (usec)		-8.00765E-02	+/-	1.2E-05
Phase delay (usec)	2.30808331656E+03	Apriori clockrate (us/s)		-7.1527311E-07	Resid phdelay (usec)		2.38794E-06	+/-	1.0E-08
Delay rate (us/s)	-8.79048010391E-02	Apriori rate (us/s)		-8.79049138338E-02	Resid rate (us/s)		1.12795E-07	+/-	9.9E-11
Total phase (deg)	-193.0	Apriori accel (us/s/s)		-1.38407842591E-05	Resid phase (deg)		-255.4	+/-	0.2

ph/seg (deg) 16.9 0.4
amp/seg (%) 5.1 0.7
ph/frq (deg) 8.1 0.2
amp/frq (%) 5.3 0.4

l: az 71.2 el 46.9 pa -74.8
o: az 68.4 el 38.3 pa -68.5
u,v (fr/asec) 311.064 -487.919

Control file: cf_1234_gmva
Input file: /Exps/c241d/v1/7mm/1234/No0500/lo..3MP56K
Output file: /Exps/c241d/v1/7mm/1234/No0500/lo.Q.220.3MP56K

PCal mode: MANUAL, MANUAL
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us
Data rate(Mb/s): 2048
nlags: 256 t_cohere infinite

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

simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

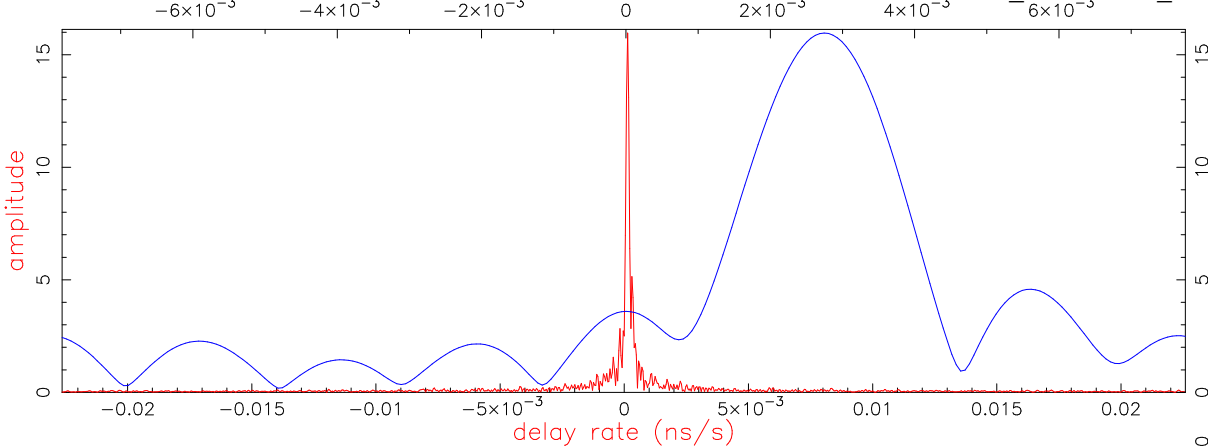
aux01

2013+370.3MP56K, No0500, lo

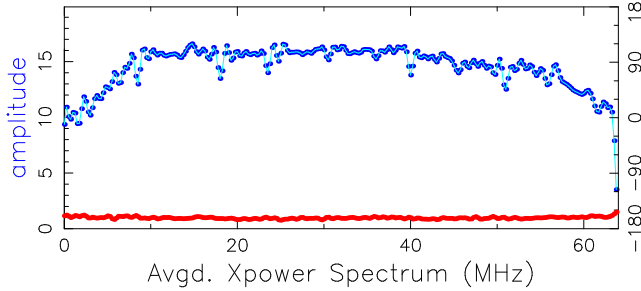
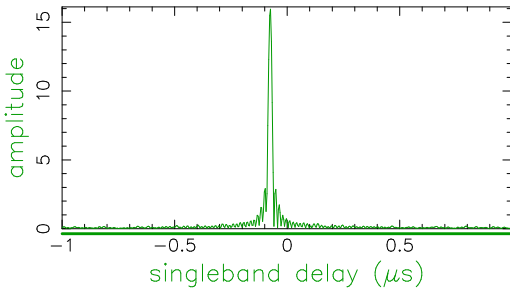
VLBA_LA - VLBA_OV, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 7

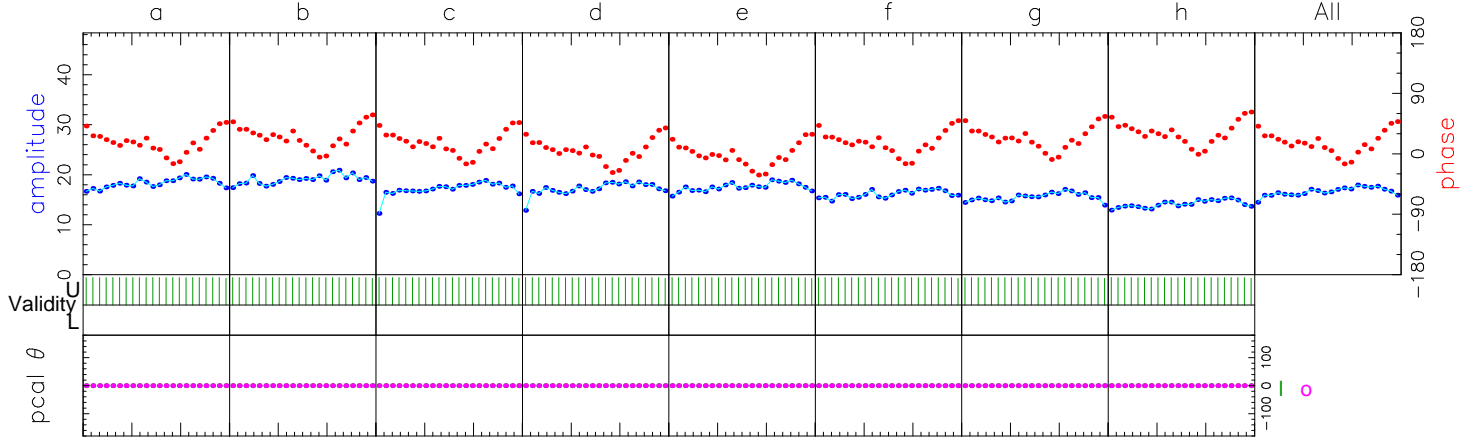


SNR 591.6
Int time 179.984
Amp 16.126
Phase -276.3
PFD 0.0e+00
Delays (us)
SBD -0.075526
MBD 0.002722
Fringe rate (Hz)
0.004885
Ion TEC 0.000
Ref freq (MHz)
43140.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2024:332:222845
2025:042:151823
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD) 2.30800791089E+03 Apriori delay (usec) 2.30808331417E+03 Resid mbdelay (usec) 2.72172E-03 +/- 1.8E-06
 Sband delay (usec) 2.30800778767E+03 Apriori clock (usec) -3.3352531E+01 Resid sbdelay (usec) -7.55265E-02 +/- 1.5E-05
 Phase delay (usec) 2.30808331522E+03 Apriori clockrate (us/s) -7.1527311E-07 Resid phdelay (usec) 1.04370E-06 +/- 1.2E-08
 Delay rate (us/s) -8.79048005976E-02 Apriori rate (us/s) -8.79049138338E-02 Resid rate (us/s) 1.13236E-07 +/- 1.2E-10
 Total phase (deg) -213.8 Apriori accel (us/s/s) -1.38407842591E-05 Resid phase (deg) -276.3 +/- 0.2

RMS Theor. Amplitude 16.126 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 16.5 0.5 Search (1024X32) 15.135 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 5.9 0.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 11.7 0.3 Inc. seg. avg. 16.635 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 8.8 0.5 Inc. frq. avg. 16.210 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 71.2 el 46.9 pa -74.8 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 311.064 -487.919 simultaneous interpolator

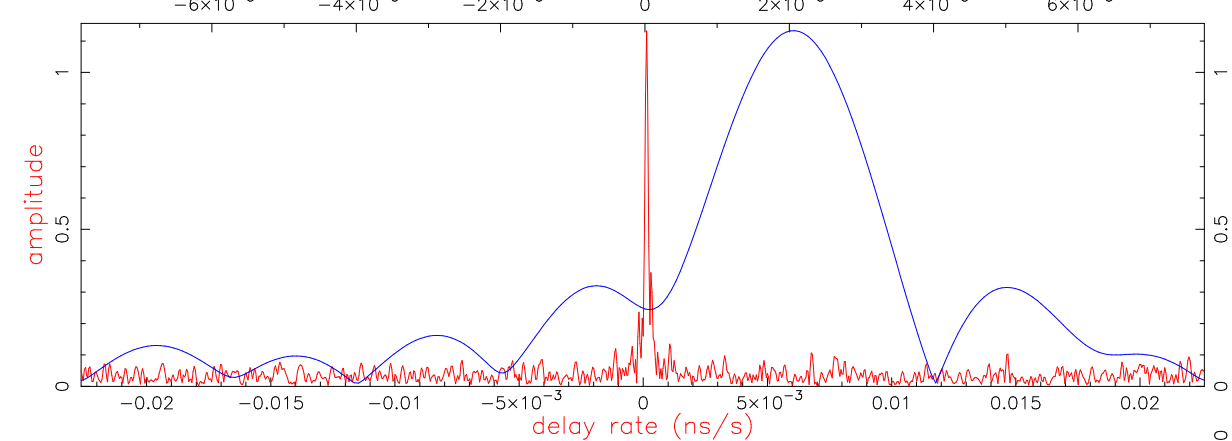
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/lo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/lo.Q.253.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

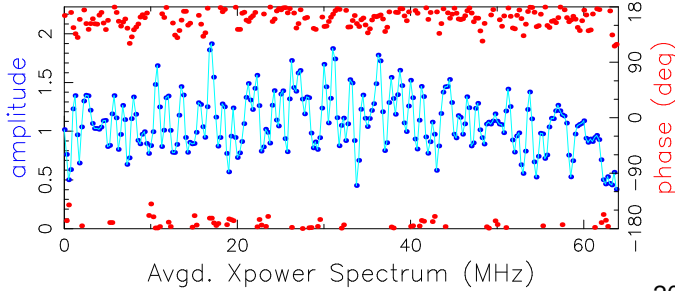
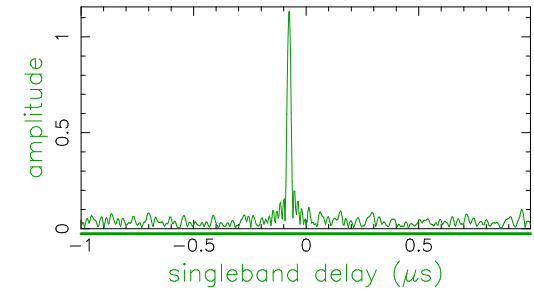
2013+370.3MP56K, No0500, lo

VLBA_LA - VLBA_OV, fgroup Q, pol LR



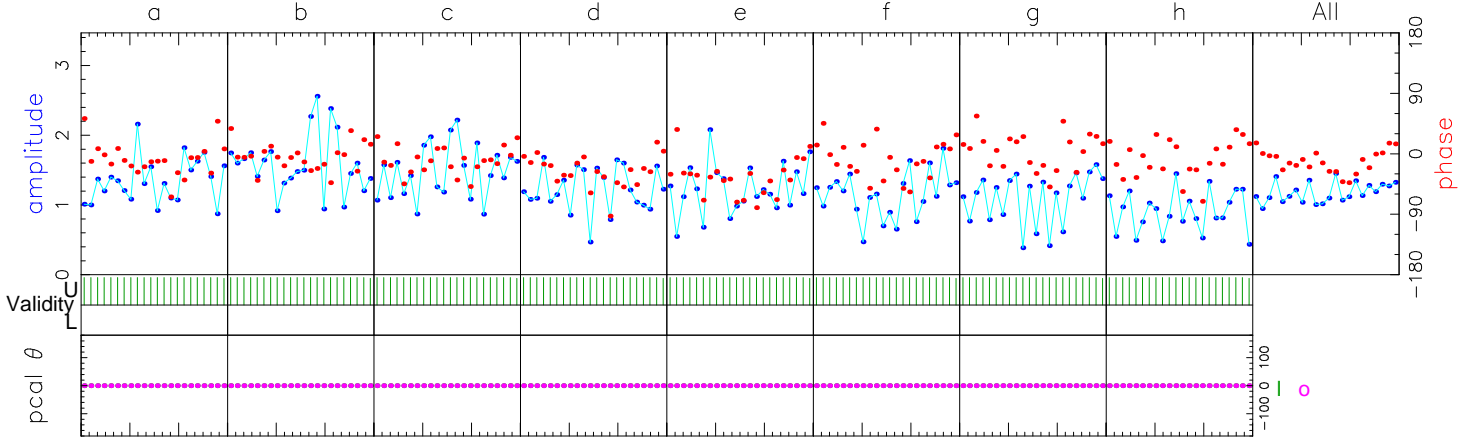
Fringe quality 8

SNR 42.4
 Int time 179.984
 Amp 1.156
 Phase -303.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.076068
 MBD 0.002018
 Fringe rate (Hz) 0.004843
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151825
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD) 2.30800720702E+03 Apriori delay (usec) 2.30808331417E+03 Resid mbdelay (usec) 2.01784E-03 +/- 2.6E-05
 Sband delay (usec) 2.30800724617E+03 Apriori clock (usec) -3.3352531E+01 Resid sbdelay (usec) -7.60680E-02 +/- 2.0E-04
 Phase delay (usec) 2.30808331344E+03 Apriori clockrate (us/s) -7.1527311E-07 Resid phdelay (usec) -7.31983E-07 +/- 1.7E-07
 Delay rate (us/s) -8.79048015710E-02 Apriori rate (us/s) -8.79049138338E-02 Resid rate (us/s) 1.12263E-07 +/- 1.7E-09
 Total phase (deg) -241.4 Apriori accel (us/s/s) -1.38407842591E-05 Resid phase (deg) -303.9 +/- 2.7

RMS Theor. Amplitude 1.156 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 16.5 6.3 Search (1024X32) 1.083 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 12.2 11.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 13.6 3.8 Inc. seg. avg. 1.173 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 17.9 6.7 Inc. frq. avg. 1.152 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

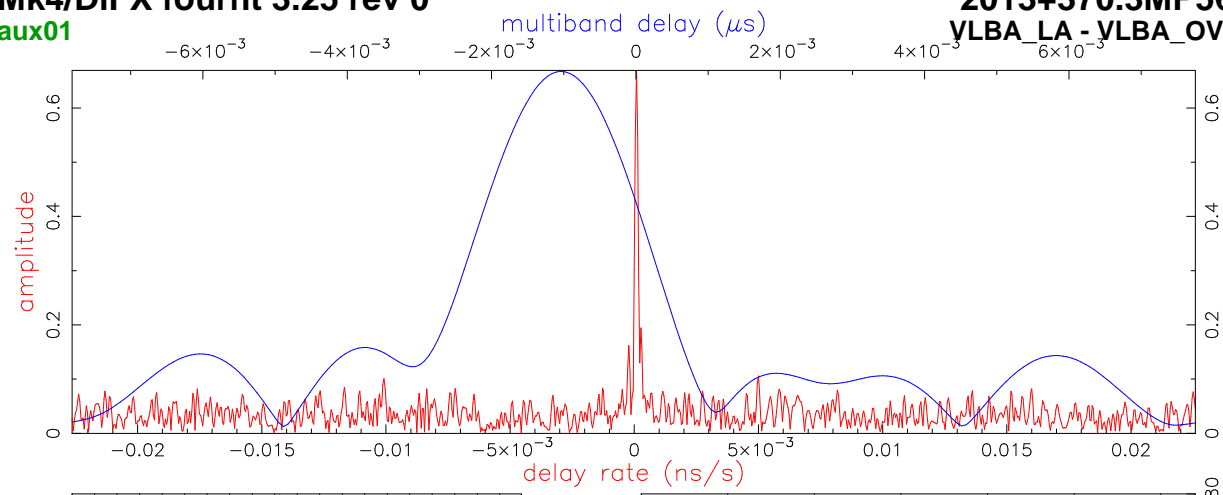
l: az 71.2 el 46.9 pa -74.8 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 311.064 -487.919 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/lo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/lo.Q.268.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, lo

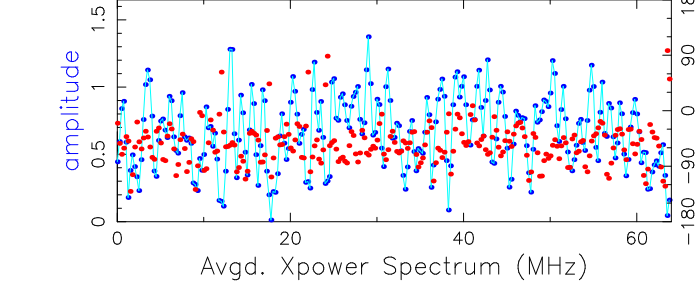
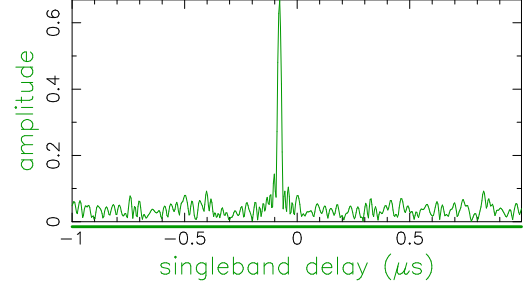
VLBA_LA - VLBA_OV, fgroup Q, pol RL



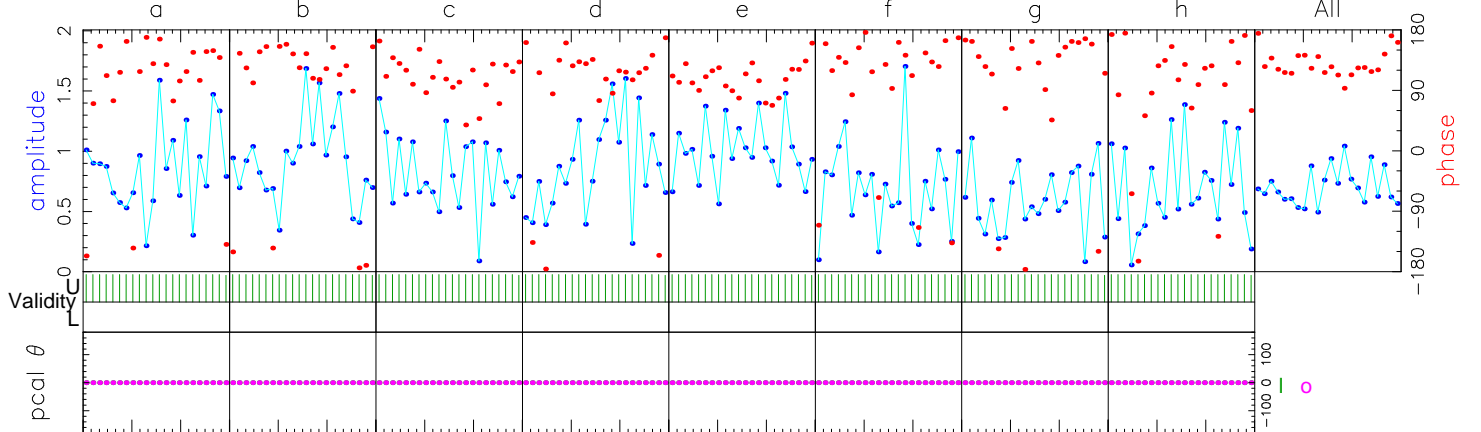
Fringe quality 9

SNR 24.6
 Int time 179.984
 Amp 0.669
 Phase -164.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.078815
 MBD -0.001051
 Fringe rate (Hz) 0.004689
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151829
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"



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



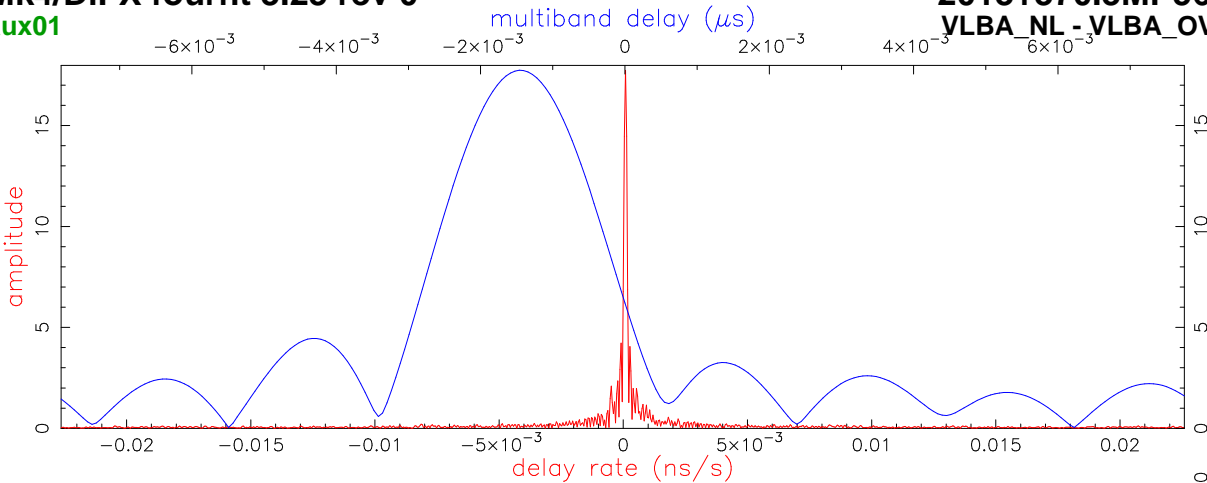
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	2.30800413852E+03					2.30808331417E+03			Resid mbdelay (usec)	-1.05066E-03 +/- 4.4E-05
Sband delay (usec)	2.30800449892E+03					-3.3352531E+01			Resid sbdelay (usec)	-7.88153E-02 +/- 3.5E-04
Phase delay (usec)	2.30808332241E+03					-7.1527311E-07			Resid phdelay (usec)	8.23481E-06 +/- 3.0E-07
Delay rate (us/s)	-8.79048051392E-02					-8.79049138338E-02			Resid rate (us/s)	1.08695E-07 +/- 2.9E-09
Total phase (deg)			-102.2			-1.38407842591E-05			Resid phase (deg)	-164.6 +/- 4.7
ph/seg (deg)	19.6	10.9							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	22.9	19.1							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	15.6	6.6							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	20.3	11.5							Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023
									Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
l: az 71.2 el 46.9 pa -74.8										simultaneous interpolator
o: az 68.4 el 38.3 pa -68.5										
u,v (fr/asec) 311.064 -487.919										
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0500/lo..3MP56K								Output file: /Exps/c241d/v1/7mm/1234/No0500/lo.Q.284.3MP56K	

Mk4/DiFX fourfit 3.25 rev 0

aux01

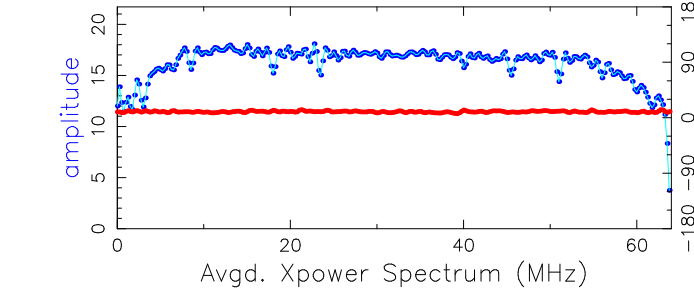
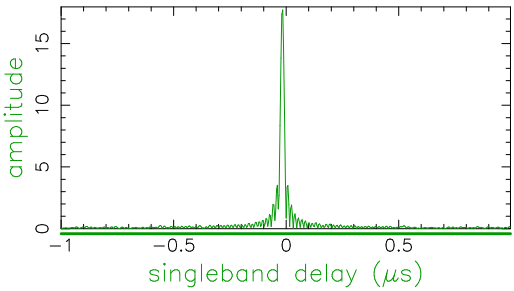
2013+370.3MP56K, No0500, no

VLBA_NL - VLBA_OV, fgroup Q, pol LL



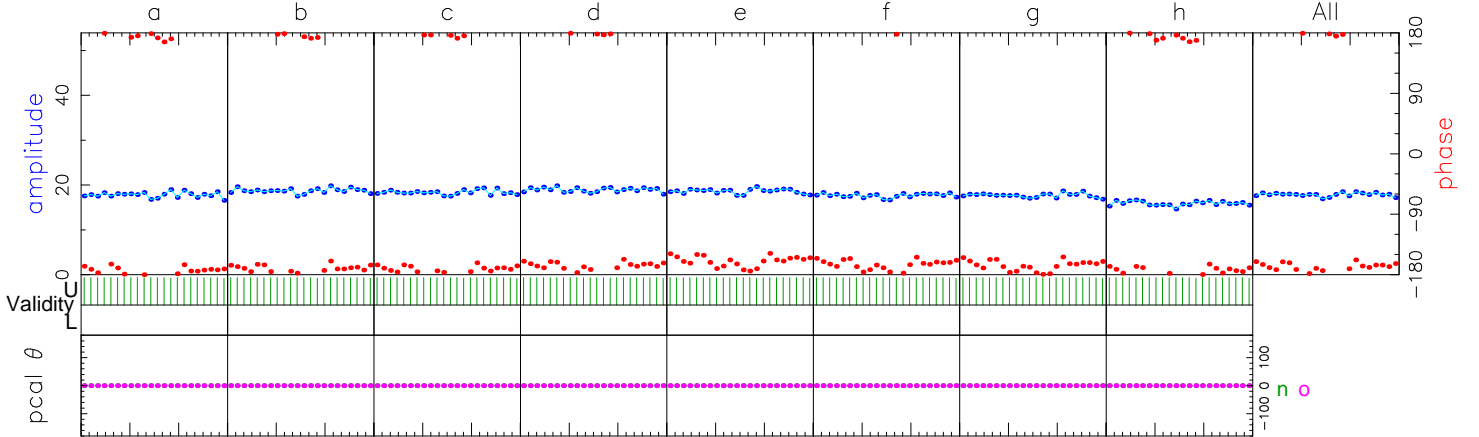
Fringe quality 9

SNR 659.0
Int time 179.674
Amp 17.979
Phase -12.5
PFD 0.0e+00
Delays (us)
SBD -0.017128
MBD -0.001490
Fringe rate (Hz)
0.003819
Ion TEC 0.000
Ref freq (MHz)
43140.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2024:332:222845
2025:042:151826
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	5.05962862782E+03	Apriori delay (usec)	5.05964574245E+03	Resid mbdelay (usec)	-1.48963E-03	+/-	1.6E-06
Sband delay (usec)	5.05962861495E+03	Apriori clock (usec)	-2.5340300E+01	Resid sbdelay (usec)	-1.71275E-02	+/-	1.3E-05
Phase delay (usec)	5.05964573150E+03	Apriori clockrate (us/s)	-1.8401209E-07	Resid phdelay (usec)	-1.09484E-05	+/-	1.1E-08
Delay rate (us/s)	-3.14996667743E-01	Apriori rate (us/s)	-3.14996756265E-01	Resid rate (us/s)	8.85222E-08	+/-	1.1E-10
Total phase (deg)	-254.0	Apriori accel (us/s/s)	-2.28709236914E-05	Resid phase (deg)	-12.5	+/-	0.2

ph/seg (deg)	7.5	0.4	Search (1024X32)	17.718	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	2.3	0.7	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	6.9	0.2	Inc. seg. avg.	17.879	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.023	0.023
amp/frq (%)	5.1	0.4	Inc. frq. avg.	17.821	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

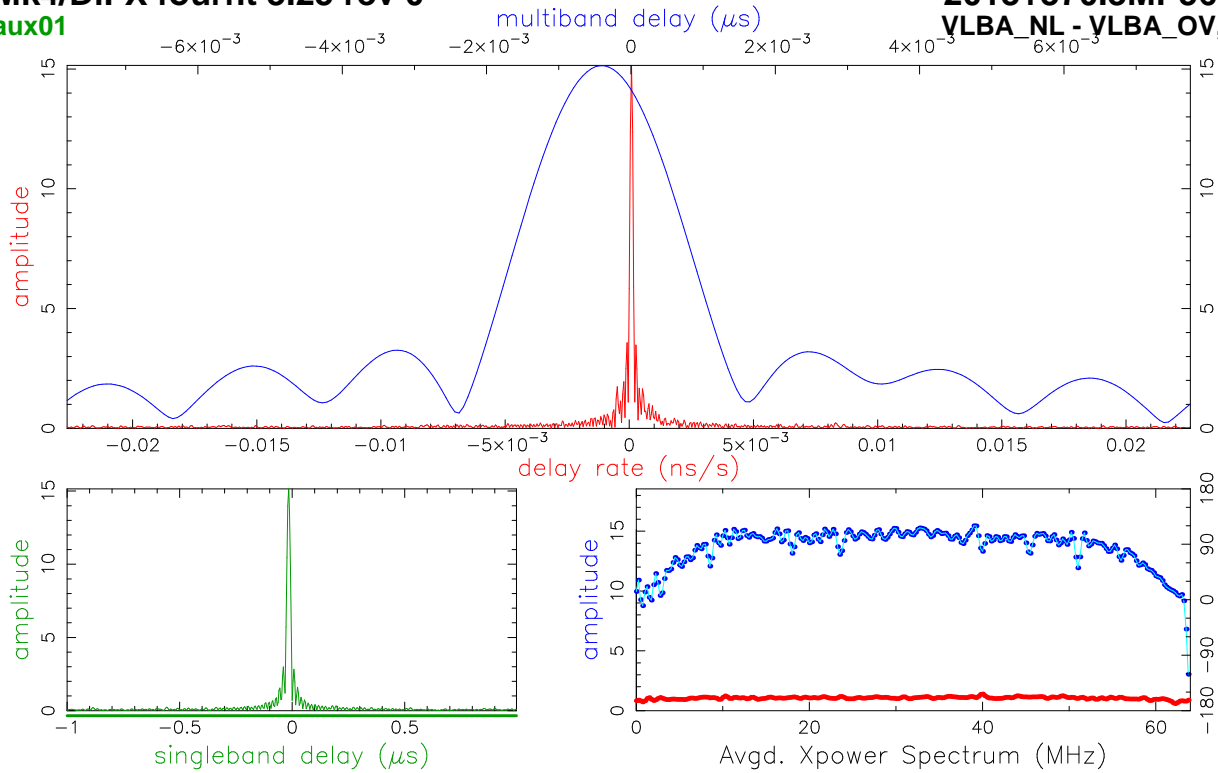
n: az 85.1 el 59.3 pa -68.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 1126.410 -475.812 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/no..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/no.Q.277.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, no VLBA_NL - VLBA_OV, fgroup Q, pol RR

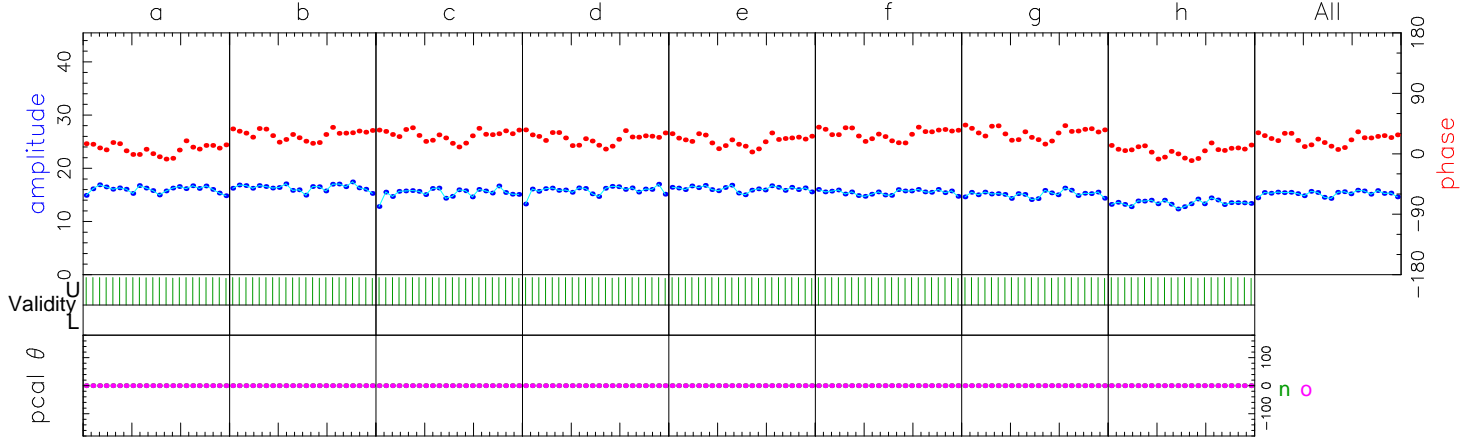


Fringe quality 9

SNR 555.4
 Int time 179.674
 Amp 15.152
 Phase -180.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.015947
 MBD -0.000412
 Fringe rate (Hz) 0.003816
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151831
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



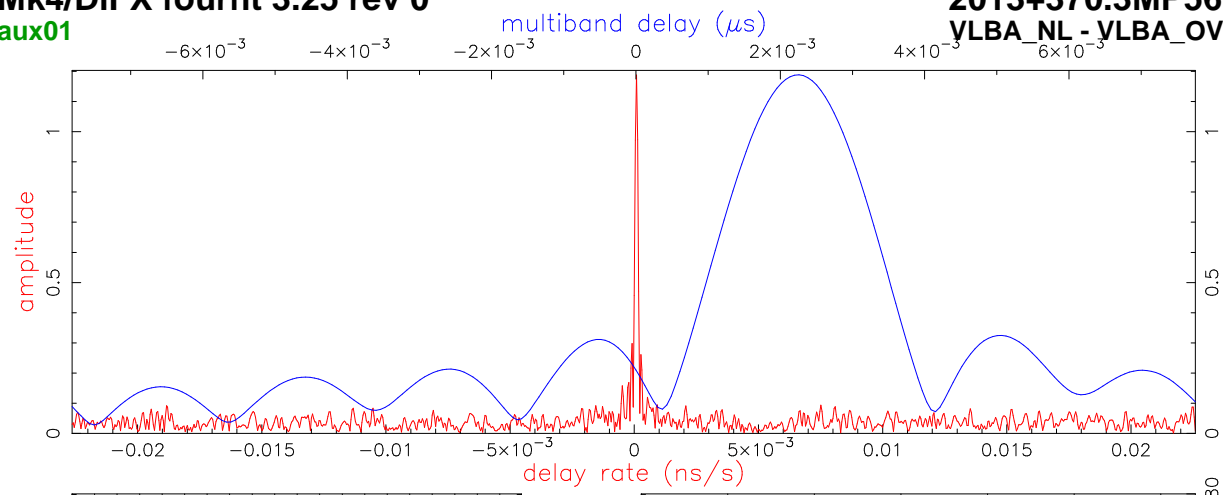
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
o	1000	1000	1000	1000	1000	1000	1000	1000			
n	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	5.05962970564E+03		Apriori delay (usec)		5.05964574245E+03		Resid mbdelay (usec)		-4.11814E-04	+/- 2.0E-06	
Sband delay (usec)	5.05962979595E+03		Apriori clock (usec)		-2.5340300E+01		Resid sbdelay (usec)		-1.59465E-02	+/- 1.6E-05	
Phase delay (usec)	5.05964574385E+03		Apriori clockrate (us/s)		-1.8401209E-07		Resid phdelay (usec)		1.39707E-06	+/- 1.3E-08	
Delay rate (us/s)	-3.14996667808E-01		Apriori rate (us/s)		-3.14996756265E-01		Resid rate (us/s)		8.84571E-08	+/- 1.3E-10	
Total phase (deg)			Apriori accel (us/s/s)		-2.28709236914E-05		Resid phase (deg)		-180.8	+/- 0.2	
ph/seg (deg)	RMS 7.4	Theor. 0.5	Amplitude 15.152 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
amp/seg (%)	3.0	0.8	Search (1024X32) 15.091		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000	
ph/frq (deg)	11.4	0.3	Interp. 0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008
amp/frq (%)	5.7	0.5	Inc. seg. avg. 15.269		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.023	0.023	
			Inc. frq. avg. 15.358		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
n: az 85.1 el 59.3 pa -68.9	o: az 68.4 el 38.3 pa -68.5		u,v (fr/asec) 1126.410 -475.812						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0500/no..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/no.Q.299.3MP56K								

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, no

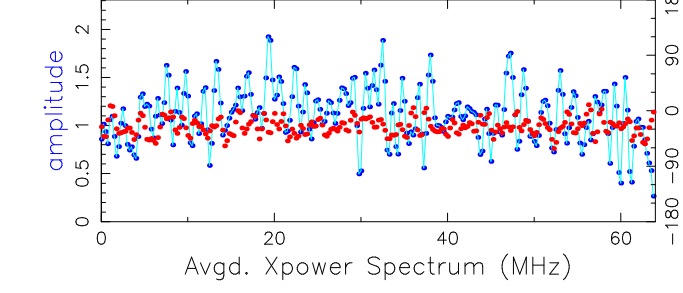
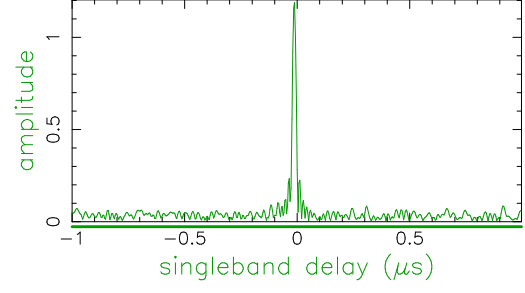
VLBA_NL - VLBA_OV, fgroup Q, pol LR



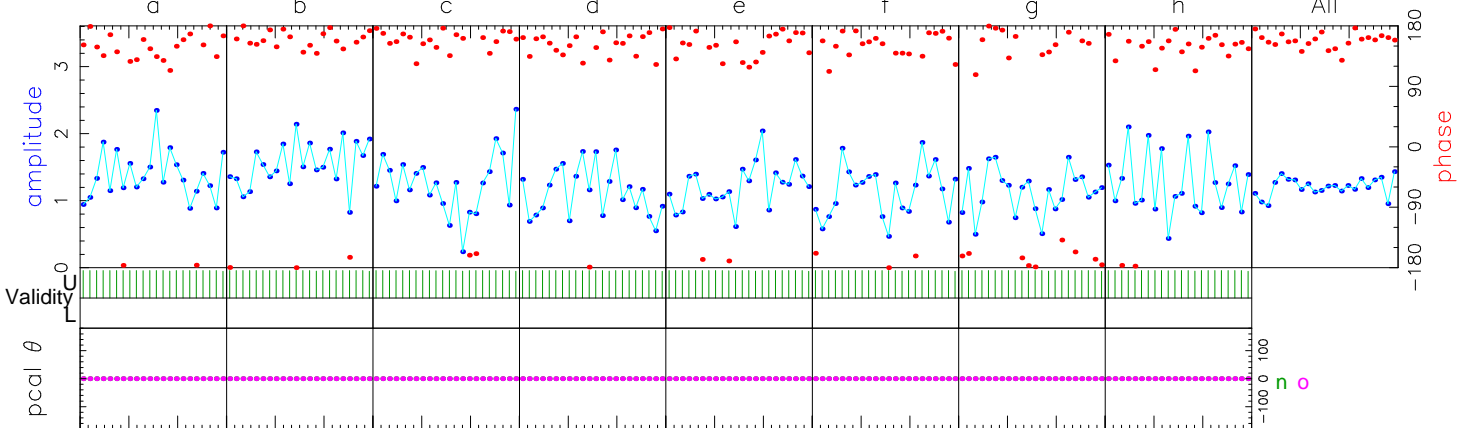
Fringe quality 9

SNR 44.1
Int time 179.674
Amp 1.203
Phase -44.7
PFD 0.0e+00
Delays (us)
SBD -0.013150
MBD 0.002216
Fringe rate (Hz) 0.003781
Ion TEC 0.000
Ref freq (MHz) 43140.0000
AP (sec) 0.512

Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2024:332:222845
2025:042:151834
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"



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



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

Group delay (usec) (SBD)	5.05963233311E+03	Apriori delay (usec)	5.05964574245E+03	Resid mbdelay (usec)	2.21565E-03	+/-	2.5E-05
Sband delay (usec)	5.05963259270E+03	Apriori clock (usec)	-2.5340300E+01	Resid sbdelay (usec)	-1.31498E-02	+/-	2.0E-04
Phase delay (usec)	5.05964575261E+03	Apriori clockrate (us/s)	-1.8401209E-07	Resid phdelay (usec)	1.01614E-05	+/-	1.7E-07
Delay rate (us/s)	-3.1499668626E-01	Apriori rate (us/s)	-3.14996756265E-01	Resid rate (us/s)	8.76393E-08	+/-	1.6E-09
Total phase (deg)	73.9	Apriori accel (us/s/s)	-2.28709236914E-05	Resid phase (deg)	-44.7	+/-	2.6

ph/seg (deg) 10.8 6.1 Search (1024X32) 1.166 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 11.0 10.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.7 3.7 Inc. seg. avg. 1.202 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.7 6.4 Inc. frq. avg. 1.195 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.023 0.023
 n: az 85.1 el 59.3 pa -68.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 1126.410 -475.812 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/no..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/no.Q.312.3MP56K

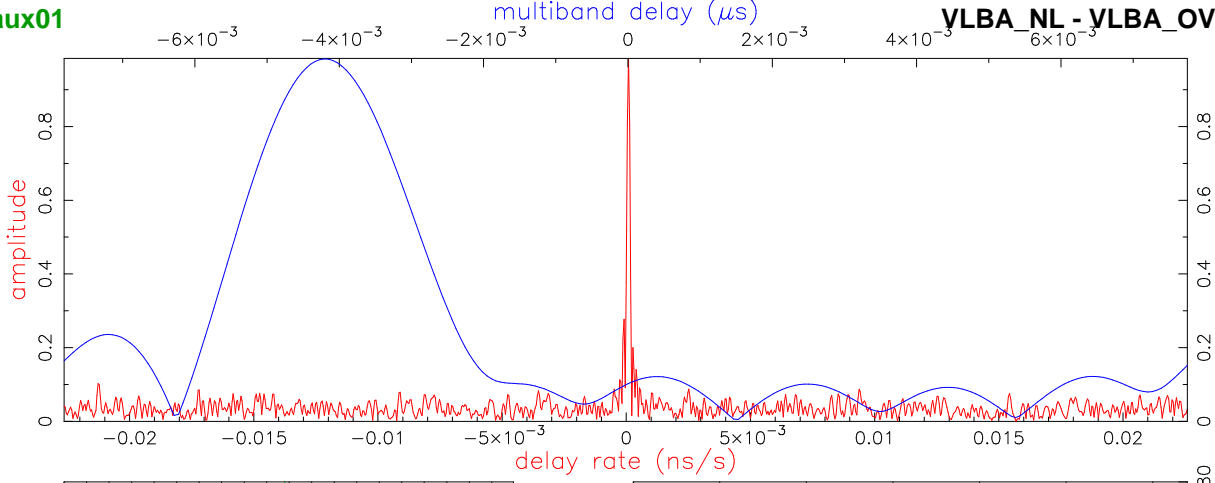
Mk4/DiFX fourfit 3.25 rev 0

aux01

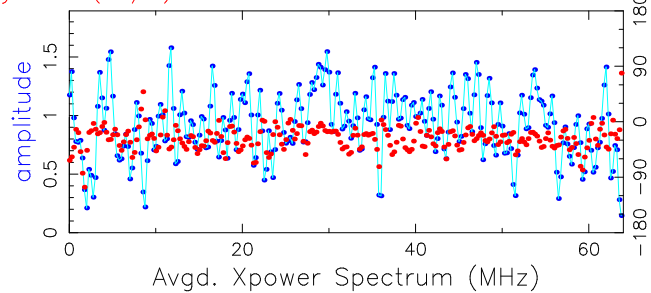
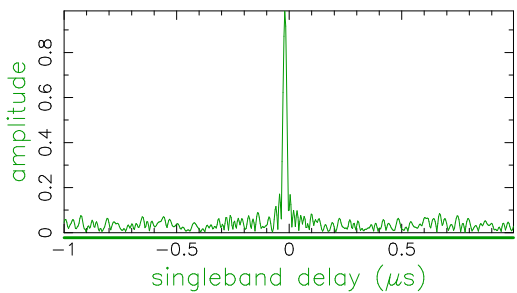
2013+370.3MP56K, No0500, no

VLBA_NL - VLBA_OV, fgroup Q, pol RL

Fringe quality 8

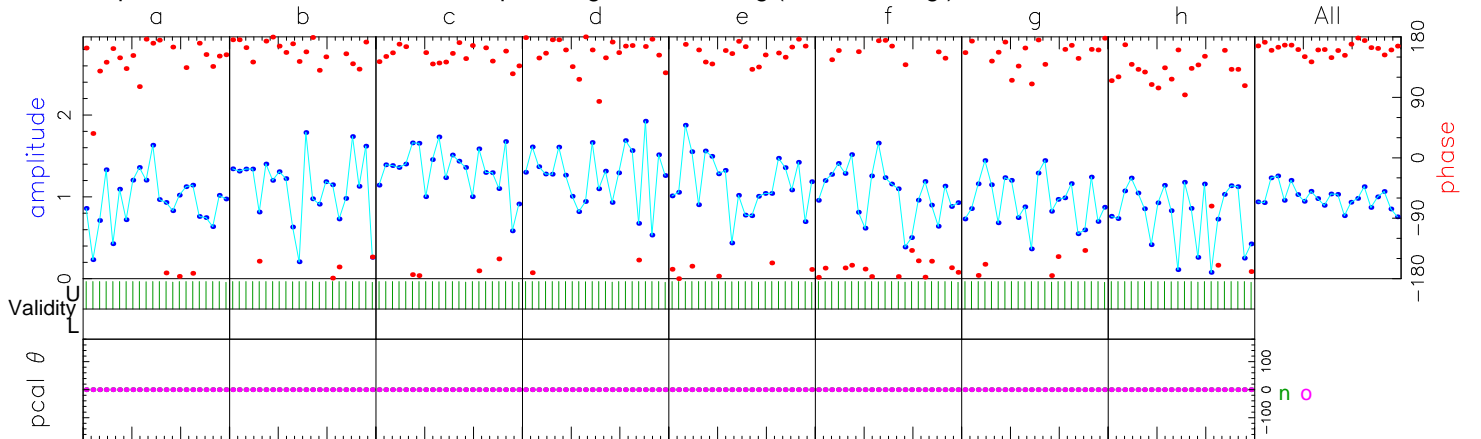


SNR 36.1
 Int time 179.674
 Amp 0.985
 Phase -40.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.019020
 MBD -0.004182
 Fringe rate (Hz) 0.003797
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151836
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD)	5.05962593523E+03	Apriori delay (usec)	5.05964574245E+03	Resid mbdelay (usec)	-4.18222E-03	+/-	3.0E-05
Sband delay (usec)	5.05962672270E+03	Apriori clock (usec)	-2.5340300E+01	Resid sbdelay (usec)	-1.90198E-02	+/-	2.4E-04
Phase delay (usec)	5.05964575288E+03	Apriori clockrate (us/s)	-1.8401209E-07	Resid phdelay (usec)	1.04286E-05	+/-	2.0E-07
Delay rate (us/s)	-3.14996668253E-01	Apriori rate (us/s)	-3.14996756265E-01	Resid rate (us/s)	8.80129E-08	+/-	2.0E-09
Total phase (deg)	78.0	Apriori accel (us/s/s)	-2.28709236914E-05	Resid phase (deg)	-40.5	+/-	3.2

ph/seg (deg)	8.3	Theor.	7.4	Amplitude	0.985 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	13.1	Search (1024X32)	0.970	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	13.8	Inc. seg. avg.	0.986	Inc. frq. avg.	0.998	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	17.0	Inc. frq. avg.	0.998	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
n: az 85.1 el 59.3 pa -68.9	o: az 68.4 el 38.3 pa -68.5	u, v (fr/asec)	1126.410 -475.812	ion window (TEC)	0.00 0.00	simultaneous interpolator	

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/no..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/no.Q.322.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

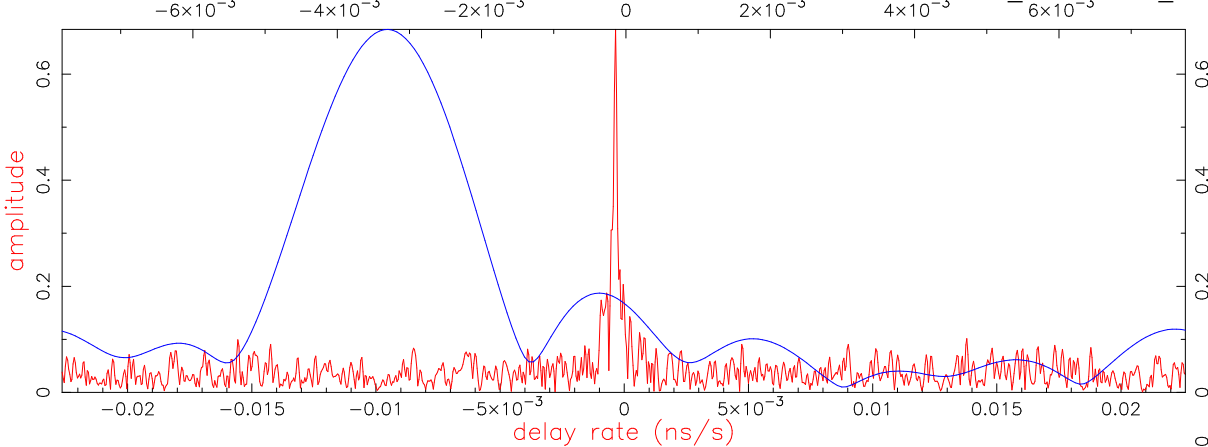
aux01

2013+370.3MP56K, No0500, oc

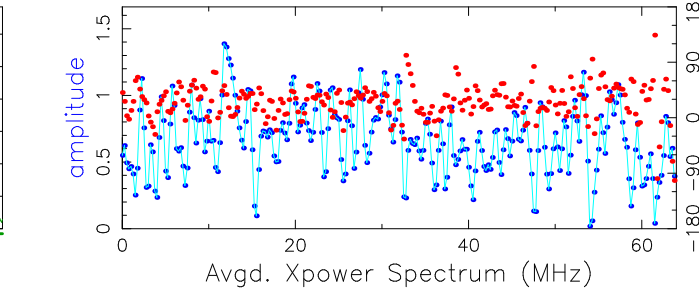
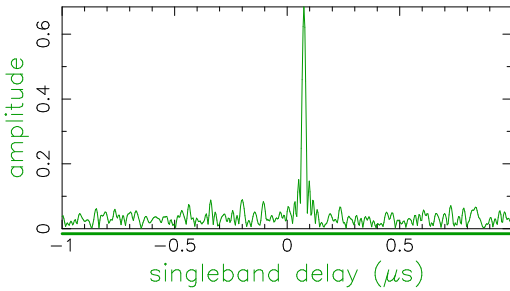
VLBA_OV - VLBA_SC, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 8

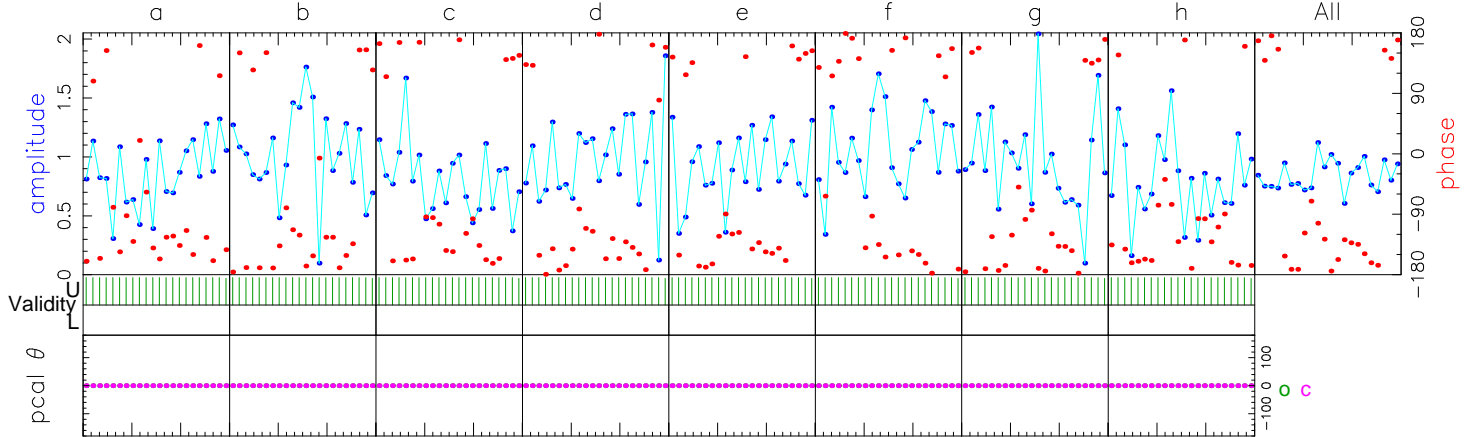


SNR 25.1
 Int time 179.980
 Amp 0.684
 Phase 131.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.074184
 MBD -0.003308
 Fringe rate (Hz)
 -0.015216
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151834
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD)	-6.40912935639E+03	Apriori delay (usec)	-6.40920417293E+03	Resid mbdelay (usec)	-3.30846E-03	+/-	4.3E-05
Sband delay (usec)	-6.40912998893E+03	Apriori clock (usec)	2.1324615E+01	Resid sbdelay (usec)	7.41840E-02	+/-	3.4E-04
Phase delay (usec)	-6.40920418331E+03	Apriori clockrate (us/s)	8.7454208E-07	Resid phdelay (usec)	-1.03802E-05	+/-	2.9E-07
Delay rate (us/s)	6.48030442297E-01	Apriori rate (us/s)	6.48030794999E-01	Resid rate (us/s)	-3.52702E-07	+/-	2.8E-09
Total phase (deg)		Apriori accel (us/s/s)	5.46568380048E-05	Resid phase (deg)	131.3	+/-	4.6

ph/seg (deg)	37.5	Theor.	10.7	Amplitude	0.684 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	29.8		18.7	Search (1024X32)	0.676	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	14.0		6.5	Inc. seg. avg.	0.831	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	13.5		11.3	Inc. frq. avg.	0.694	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 68.4 el 38.3 pa -68.5 c: az 27.3 el 67.5 pa -147.2 u,v (fr/asec) -2310.589 2708.085 simultaneous interpolator

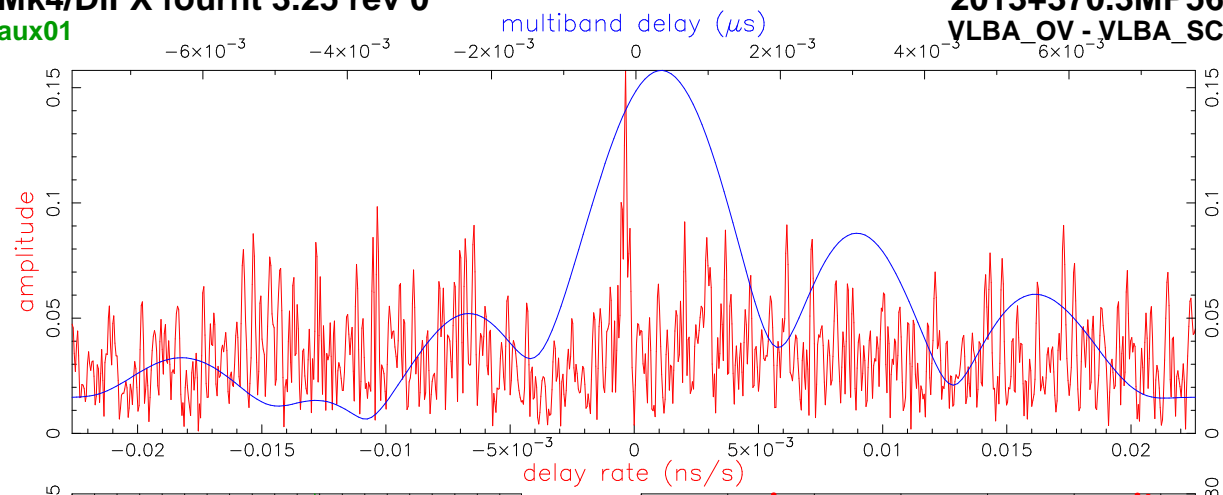
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Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, oc

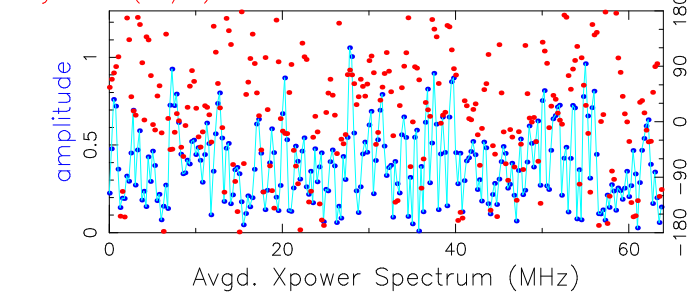
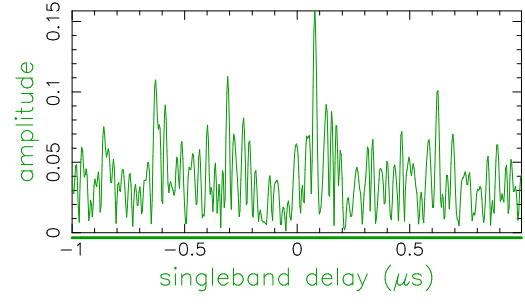
VLBA_OV - VLBA_SC, fgroup Q, pol LR



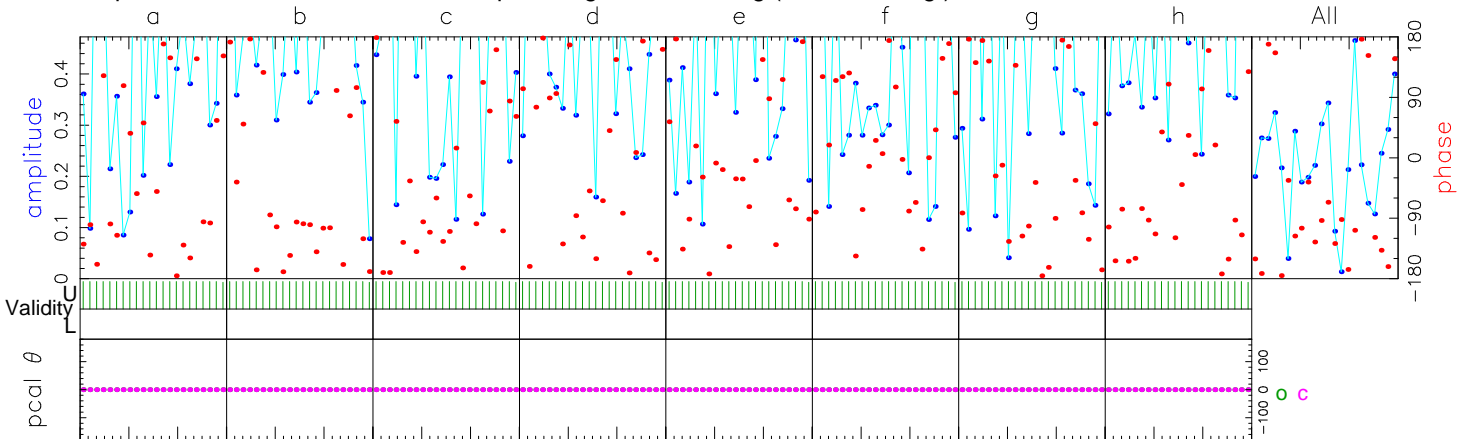
Fringe quality 0

SNR 5.8
Int time 179.980
Amp 0.158
Phase 147.8
PFD 6.1e-01
Delays (us)
SBD 0.078044
MBD 0.000347
Fringe rate (Hz)
-0.015515
Ion TEC 0.000
Ref freq (MHz)
43140.0000
AP (sec) 0.512

Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2024:332:222845
2025:042:151841
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"



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



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

Group delay (usec) (SBD)	-6.40912570070E+03	Apriori delay (usec)	-6.40920417293E+03	Resid mbdelay (usec)	3.47226E-04	+/-	1.9E-04
Sband delay (usec)	-6.40912612843E+03	Apriori clock (usec)	2.1324615E+01	Resid sbdelay (usec)	7.80445E-02	+/-	1.5E-03
Phase delay (usec)	-6.40920418224E+03	Apriori clockrate (us/s)	8.7454208E-07	Resid phdelay (usec)	-9.31420E-06	+/-	1.3E-06
Delay rate (us/s)	6.48030435367E-01	Apriori rate (us/s)	6.48030794999E-01	Resid rate (us/s)	-3.59632E-07	+/-	1.2E-08
Total phase (deg)	140.6	Apriori accel (us/s/s)	5.46568380048E-05	Resid phase (deg)	147.8	+/-	19.8

ph/seg (deg)	51.8	Theor.	46.5	Amplitude	0.158 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	81.8	Search (1024X32)	0.155	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	34.2	Inc. seg. avg.	0.174	Inc. frq. avg.	0.151	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	38.5	Inc. frq. avg.	0.151			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 68.4 el 38.3 pa -68.5 c: az 27.3 el 67.5 pa -147.2 u,v (fr/asec) -2310.589 2708.085 simultaneous interpolator

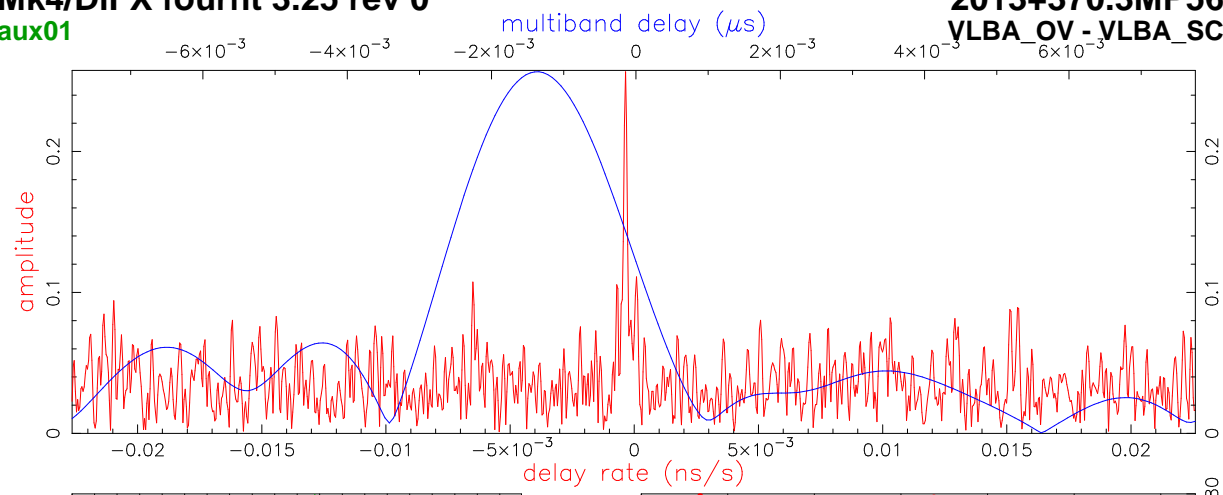
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Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, oc

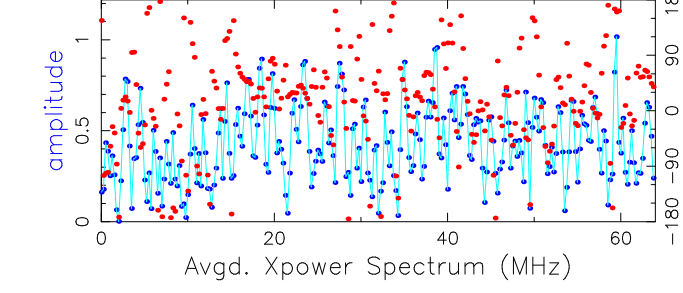
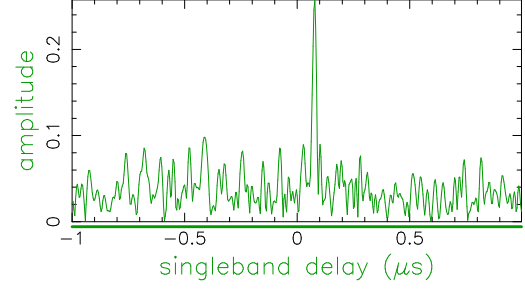
VLBA_OV - VLBA_SC, fgroup Q, pol RL



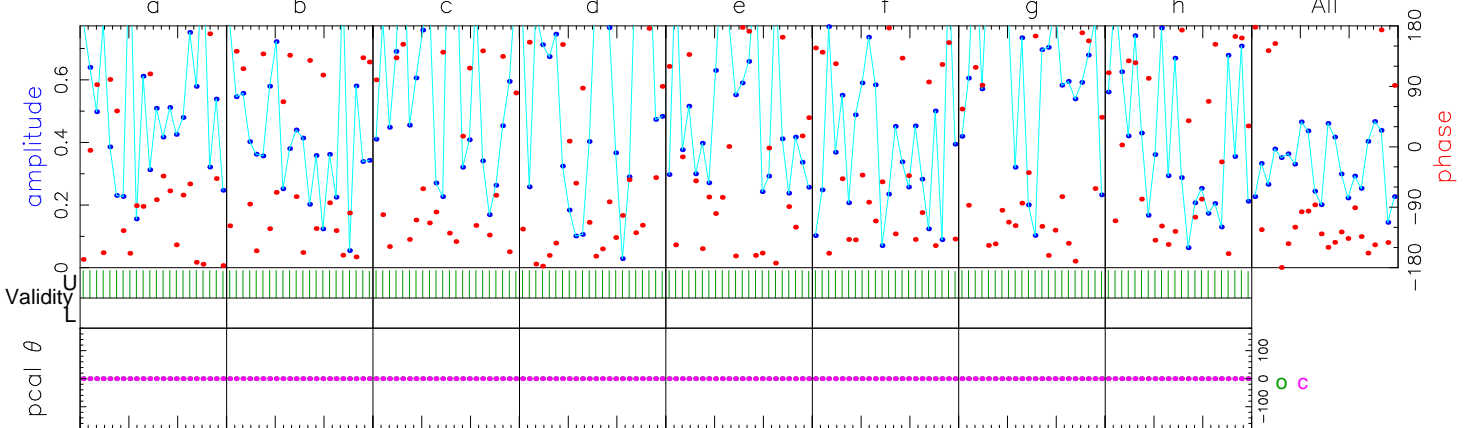
Fringe quality 9

SNR 9.4
 Int time 179.980
 Amp 0.258
 Phase 148.8
 PFD 7.0e-13
 Delays (us)
 SBD 0.077295
 MBD -0.001363
 Fringe rate (Hz) -0.014930
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151848
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"



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



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

Group delay (usec) (SBD)	-6.40912741070E+03	Apriori delay (usec)	-6.40920417293E+03	Resid mbdelay (usec)	-1.36277E-03	+/-	1.1E-04
Sband delay (usec)	-6.40912687793E+03	Apriori clock (usec)	2.1324615E+01	Resid sbdelay (usec)	7.72950E-02	+/-	9.1E-04
Phase delay (usec)	-6.40920418218E+03	Apriori clockrate (us/s)	8.7454208E-07	Resid phdelay (usec)	-9.25409E-06	+/-	7.8E-07
Delay rate (us/s)	6.48030448907E-01	Apriori rate (us/s)	6.48030794999E-01	Resid rate (us/s)	-3.46092E-07	+/-	7.5E-09
Total phase (deg)	141.5	Apriori accel (us/s/s)	5.46568380048E-05	Resid phase (deg)	148.8	+/-	12.1

	RMS	Theor.	Amplitude	0.258 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.5	28.4	Search (1024X32)	0.253	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	46.0	49.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.023	0.023
ph/frq (deg)	11.5	17.2	Inc. seg. avg.	0.293	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00
amp/frq (%)	28.5	29.9	Inc. frq. avg.	0.249	Data rate(Mb/s): 2048	t_cohere infinite			

o: az 68.4 el 38.3 pa -68.5 c: az 27.3 el 67.5 pa -147.2 u,v (fr/asec) -2310.589 2708.085 simultaneous interpolator

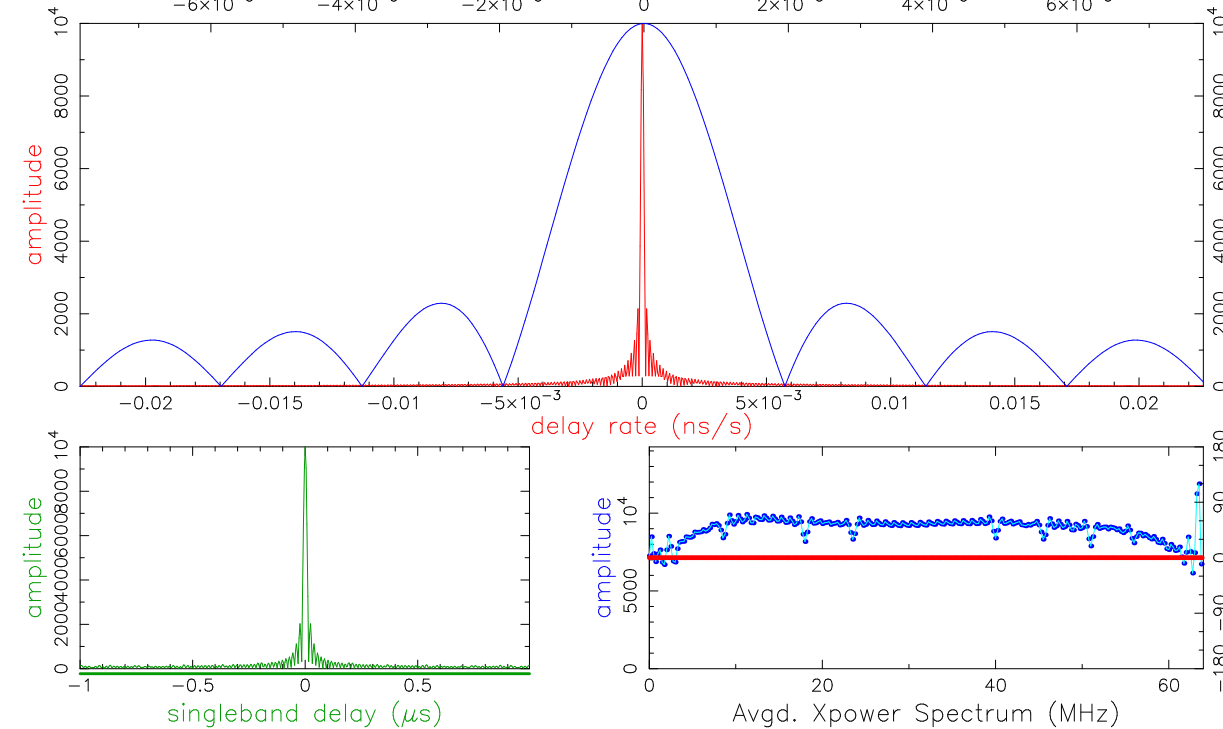
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/oc..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oc.Q.358.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

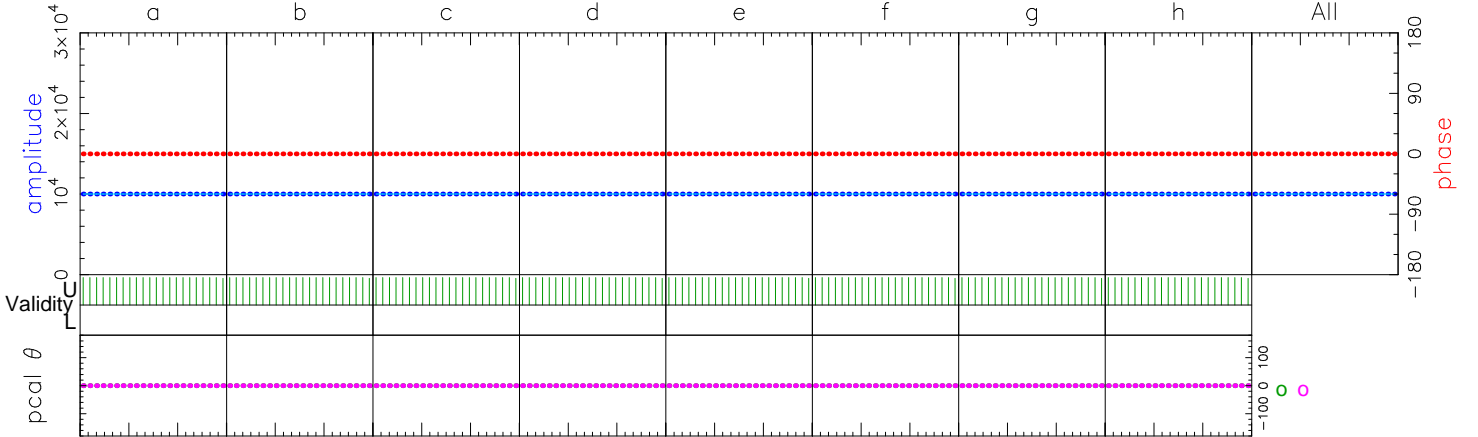
2013+370.3MP56K, No0500, oo

VLBA_OV - VLBA_OV, fgroup Q, pol LL



Fringe quality 9
 SNR 366874.8
 Int time 179.987
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Yr:day 1234
 Start 2024:113
 Stop 2024:332:222845
 FRT 2025:042:151841
 Corr/FF/build 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
o	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
o	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
o	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	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 +/- 2.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 1.9E-13
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

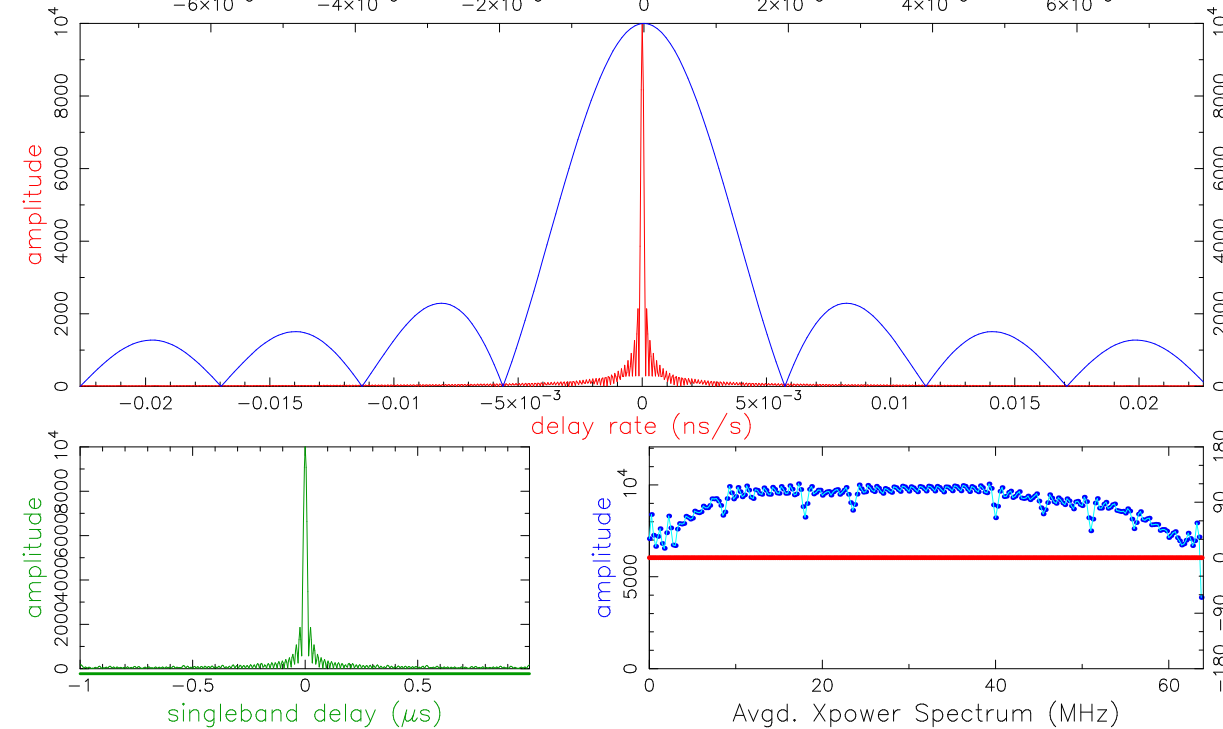
o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/oo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oo.Q.343.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, oo

VLBA_OV - VLBA_OV, fgroup Q, pol RR

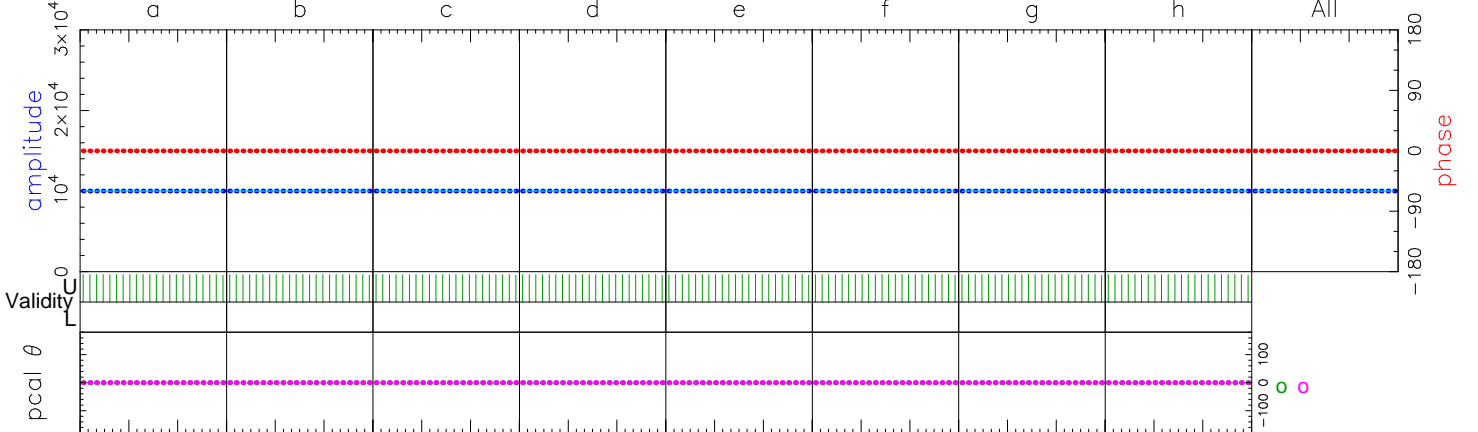


Fringe quality 9

SNR 366874.8
 Int time 179.987
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151847
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
o	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
o	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
o	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	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 +/- 2.0E-11
 Delay rate (us/s) 0.000000000000E+00 Apriori rate (us/s) 0.000000000000E+00 Resid rate (us/s) 0.000000E+00 +/- 1.9E-13
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.000000000000E+00 Resid phase (deg) 0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

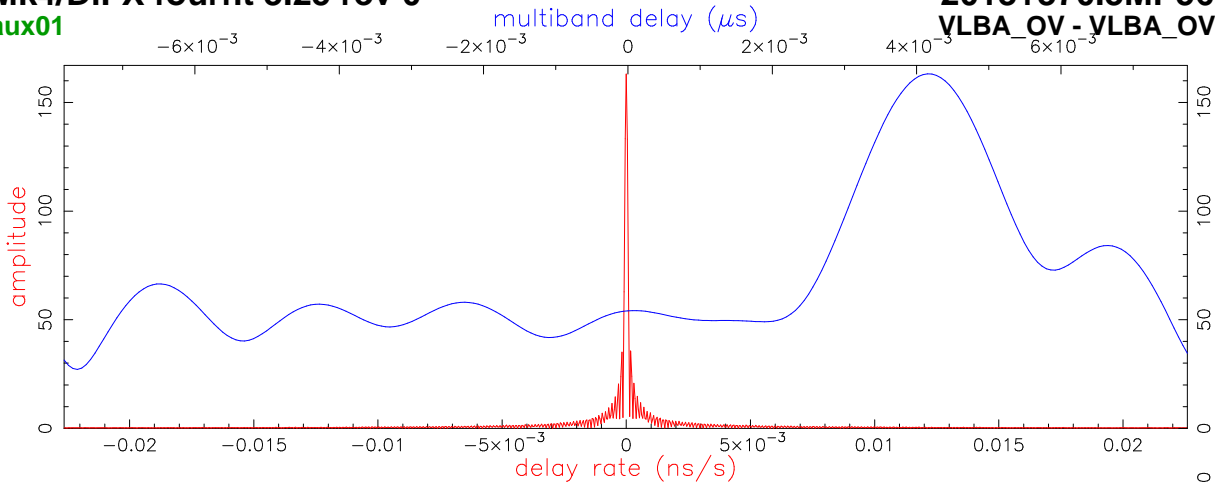
o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/oo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oo.Q.357.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

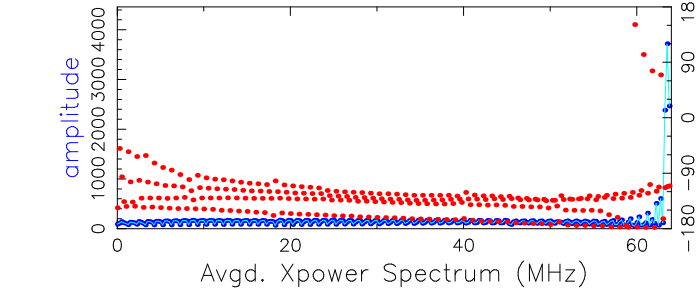
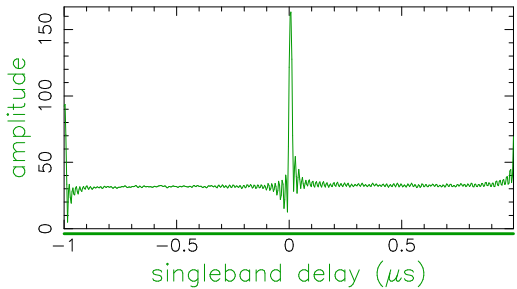
aux01

2013+370.3MP56K, No0500, oo

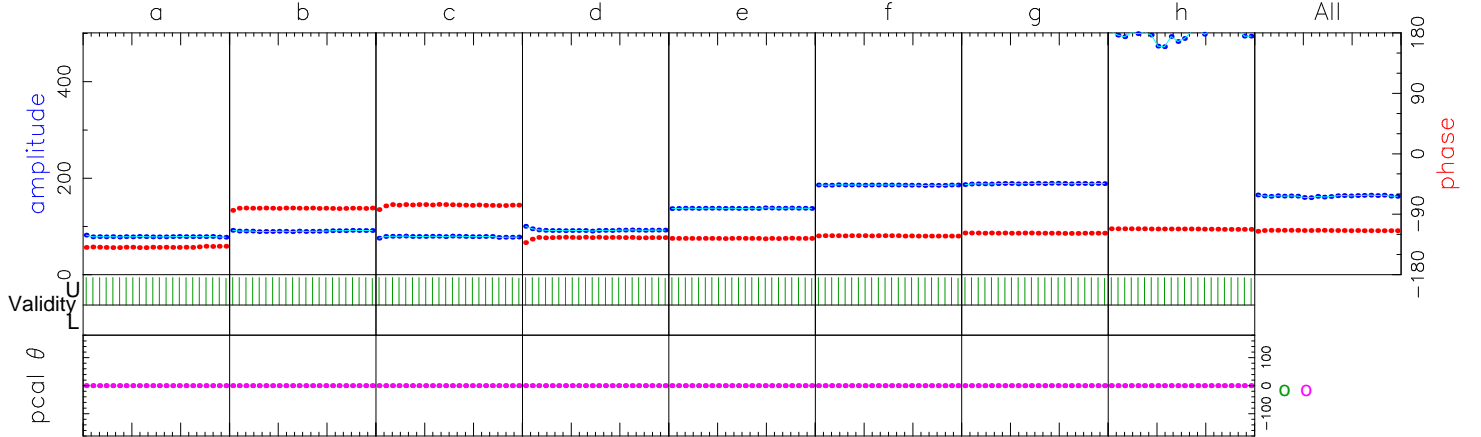
VLBA_OV - VLBA_OV, fgroup Q, pol LR



Fringe quality 5
 Error code G
 SNR 6130.7
 Int time 179.987
 Amp 167.106
 Phase -114.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.006083
 MBD 0.004201
 Fringe rate (Hz)
 0.000015
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151853
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



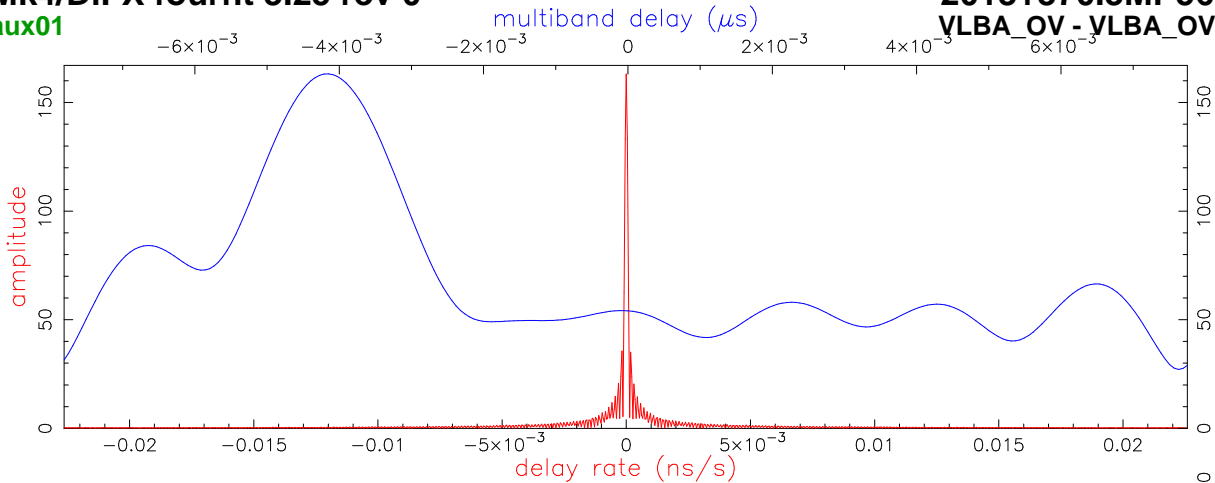
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All	
	-138.9	-81.2	-76.5	-125.1	-125.9	-122.1	-118.1	-112.0	Phase	-114.2	
	78.9	90.6	79.0	92.5	137.8	185.8	188.8	497.2	Ampl.	168.8	
	1.7	2.0	2.0	1.8	258.1	258.1	257.9	259.0	Sbd box	258.6	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
o:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
o:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec) (SBD)	4.20143750000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.20144E-03	+/- 1.8E-07	
Sband delay (usec)	6.08325000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		6.08325E-03	+/- 1.4E-06	
Phase delay (usec)	-7.35297388255E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-7.35297E-06	+/- 1.2E-09	
Delay rate (us/s)	3.36726158960E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.36726E-10	+/- 1.2E-11	
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-114.2	+/- 0.0	
	RMS	Theor.	Amplitude	167.106 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	0.3	0.0	Search (1024X32)	159.937		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	2.5	0.1	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	24.0	0.0	Inc. seg. avg.	163.139		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.023 0.023	
amp/frq (%)	78.5	0.0	Inc. frq. avg.	168.819		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
o: az 68.4 el 38.3 pa -68.5		o: az 68.4 el 38.3 pa -68.5		u,v (fr/asec) 0.000 0.000						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241d/v1/7mm/1234/No0500/oo..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/oo.Q.367.3MP56K							

Mk4/DiFX fourfit 3.25 rev 0

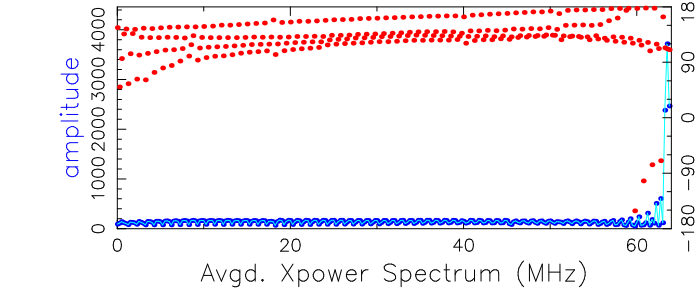
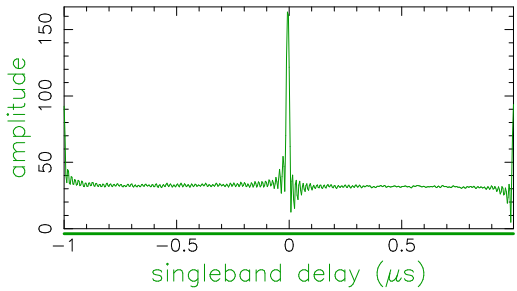
aux01

2013+370.3MP56K, No0500, oo

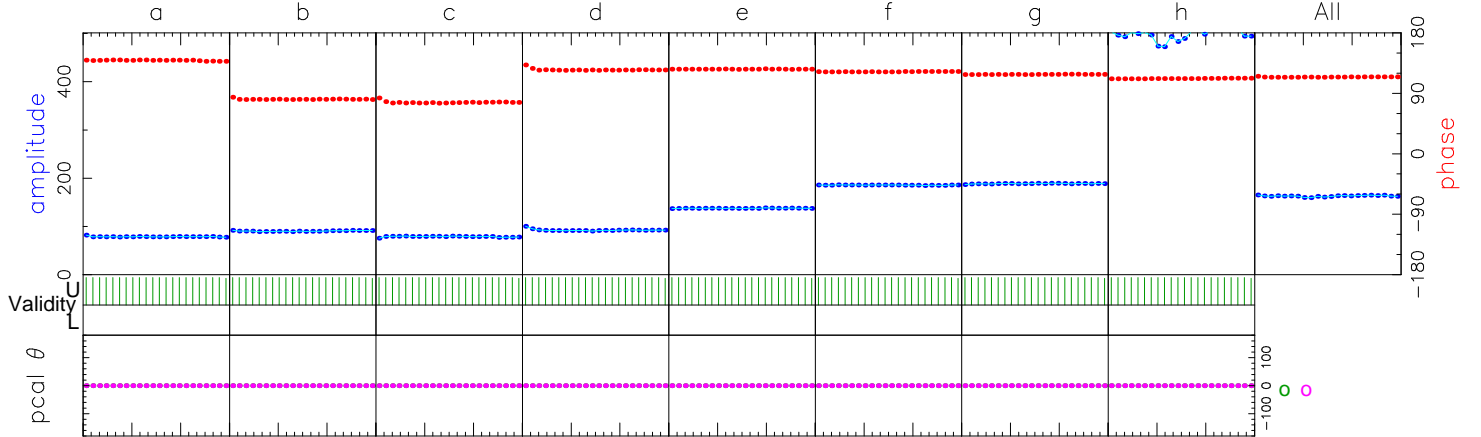
VLBA_OV - VLBA_OV, fgroup Q, pol RL



Fringe quality 5
 Error code G
 SNR 6130.7
 Int time 179.987
 Amp 167.106
 Phase 114.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.006083
 MBD -0.004201
 Fringe rate (Hz)
 -0.000015
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151855
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
138.9	81.2	76.5	125.1	125.9	122.1	118.1	112.0	Phase	114.2
78.9	90.6	79.0	92.5	137.8	185.8	188.8	497.2	Ampl.	168.8
511.6	511.6	511.6	511.6	255.9	255.9	256.1	255.0	Sbd box	255.4
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o: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	Mani PC	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
o Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	-4.20143750000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.20144E-03	+/-	1.8E-07
Sband delay (usec)	-6.08325000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-6.08325E-03	+/-	1.4E-06
Phase delay (usec)	7.35297388255E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.35297E-06	+/-	1.2E-09
Delay rate (us/s)	-3.36726158960E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.36726E-10	+/-	1.2E-11
Total phase (deg)	114.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	114.2	+/-	0.0

ph/seg (deg) 0.3 0.0 Theor. Amplitude 167.106 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.5 0.1 Search (1024X32) 159.937 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 78.5 0.0 Inc. seg. avg. 163.139 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 o: az 68.4 el 38.3 pa -68.5 o: az 68.4 el 38.3 pa -68.5 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/c241d/v1/7mm/1234/No0500/oo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oo.Q.377.3MP56K simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

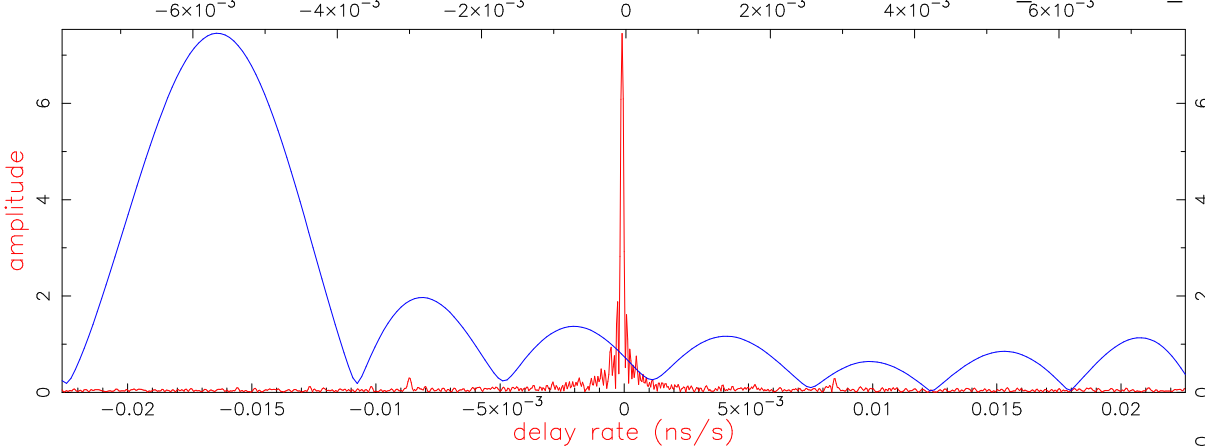
aux01

2013+370.3MP56K, No0500, op

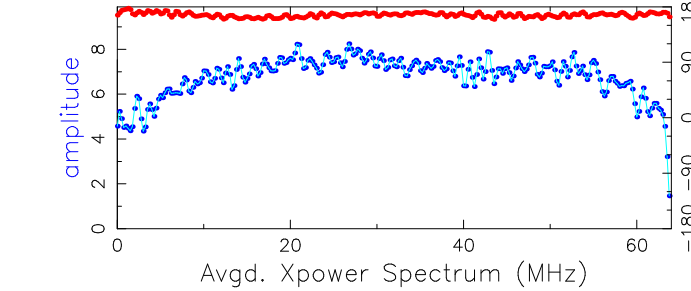
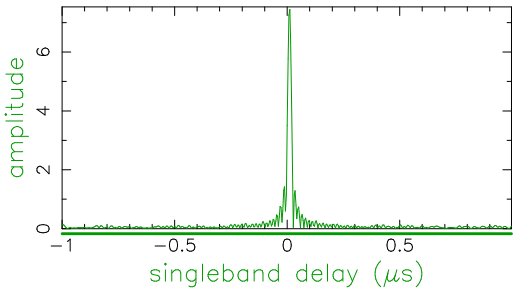
VLBA_OV - VLBA_PT, fgroup Q, pol LL

multiband delay (μ s)

Fringe quality 9

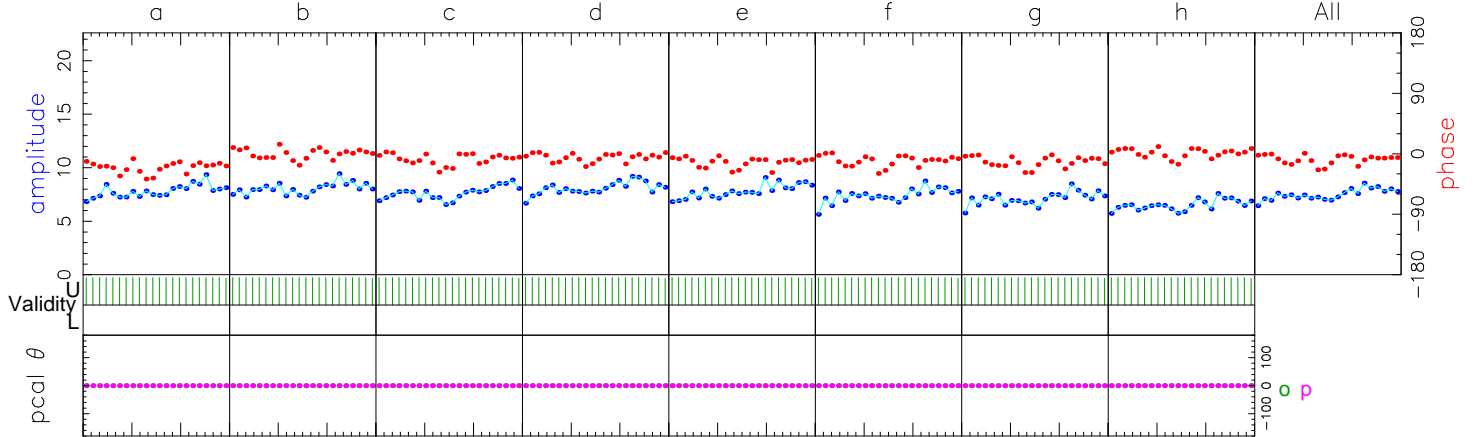


SNR 276.4
 Int time 179.975
 Amp 7.536
 Phase 194.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.010357
 MBD -0.005697
 Fringe rate (Hz)
 -0.003130
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151832
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	a	b	c	d	e	f	g	h	All
Validity	100	100	100	100	100	100	100	100	100
pcal θ	0	0	0	0	0	0	0	0	0
42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	43424.00	43488.00
-20.0	0.3	-7.7	-5.4	-12.6	-10.4	-11.8	1.4	6.5	1.4
7.8	8.0	7.6	8.0	7.8	7.4	7.1	6.5	6.5	6.5
260.0	259.9	259.5	259.6	259.5	259.6	259.6	259.6	259.9	259.9
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
o Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Q08UL	Q09UL
p Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Q08UL	Q09UL

Group delay (usec) (SBD)	-1.82403577346E+03	Apriori delay (usec)	-1.82404570190E+03	Resid mbdelay (usec)	-5.69656E-03	+/-	3.9E-06
Sband delay (usec)	-1.82403534465E+03	Apriori clock (usec)	1.9352463E+01	Resid sbdelay (usec)	1.03573E-02	+/-	3.1E-05
Phase delay (usec)	-1.82404570244E+03	Apriori clockrate (us/s)	1.0257507E-07	Resid phdelay (usec)	-5.39522E-07	+/-	2.7E-08
Delay rate (us/s)	5.39571897847E-02	Apriori rate (us/s)	5.39572623308E-02	Resid rate (us/s)	-7.25461E-08	+/-	2.6E-10
Total phase (deg)	-14.7	Apriori accel (us/s/s)	1.26280949886E-05	Resid phase (deg)	194.1	+/-	0.4

ph/seg (deg)	6.9	Theor.	1.0	Amplitude	7.536 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	6.5	Search (1024X32)	7.139	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	7.6	Inc. seg. avg.	7.503	Inc. frq. avg.	7.503	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	6.5	Inc. frq. avg.	7.500			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 68.4 el 38.3 pa -68.5 p: az 69.2 el 44.9 pa -76.1 u,v (fr/asec) -189.050 525.103 simultaneous interpolator

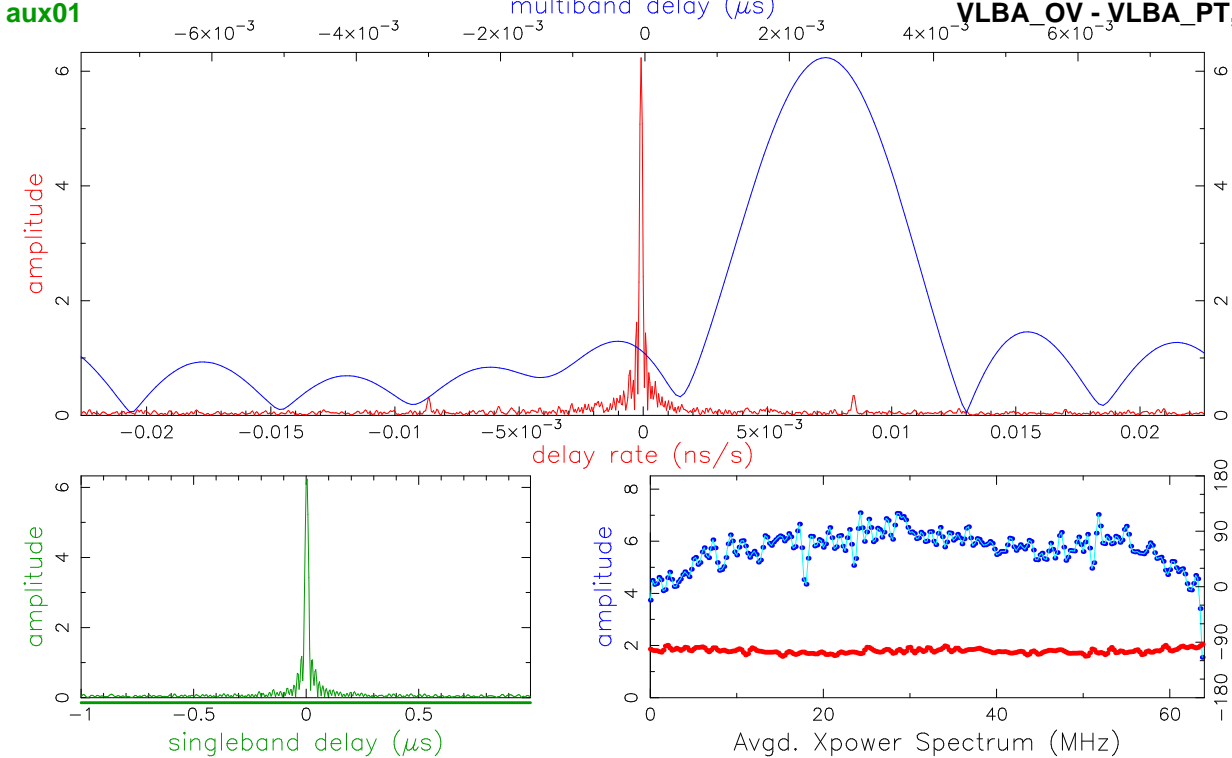
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/op..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/op.Q.303.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

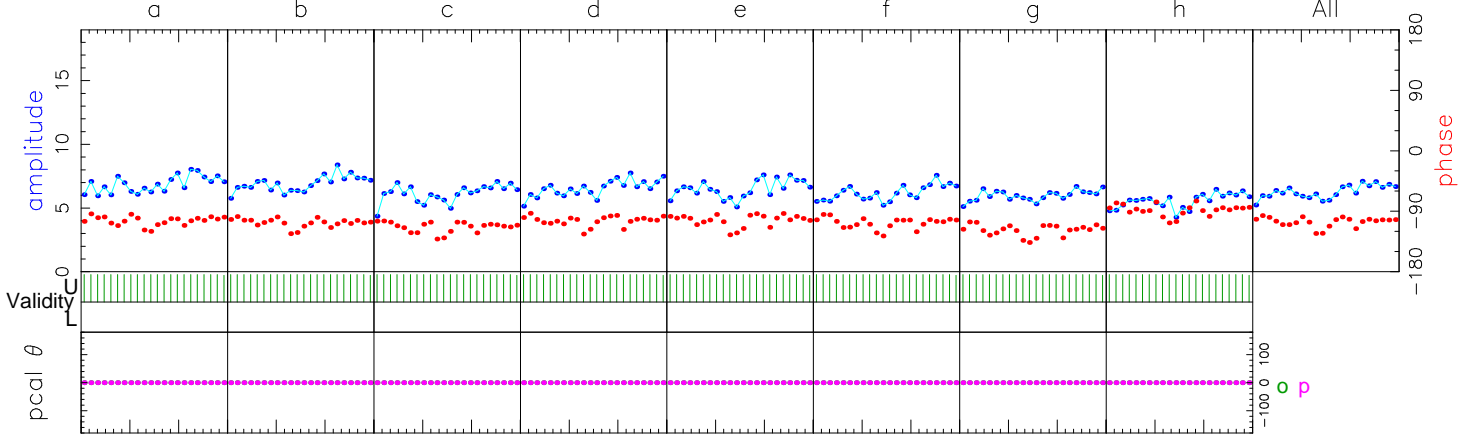
2013+370.3MP56K, No0500, op

VLBA_OV - VLBA_PT, fgroup Q, pol RR



Fringe quality 9
 SNR 232.2
 Int time 179.975
 Amp 6.329
 Phase -105.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.002351
 MBD 0.002467
 Fringe rate (Hz) -0.003170
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151834
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
p	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	-1.82404323537E+03	Apriori delay (usec)	-1.82404570190E+03	Resid mbdelay (usec)	2.46653E-03	+/-	4.7E-06
Sband delay (usec)	-1.82404335090E+03	Apriori clock (usec)	1.9352463E+01	Resid sbdelay (usec)	2.35100E-03	+/-	3.7E-05
Phase delay (usec)	-1.82404570871E+03	Apriori clockrate (us/s)	1.0257507E-07	Resid phdelay (usec)	-6.80655E-06	+/-	3.2E-08
Delay rate (us/s)	5.39571888452E-02	Apriori rate (us/s)	5.39572623308E-02	Resid rate (us/s)	-7.34855E-08	+/-	3.1E-10
Total phase (deg)	-314.5	Apriori accel (us/s/s)	1.26280949886E-05	Resid phase (deg)	-105.7	+/-	0.5

ph/seg (deg)	7.0	1.2	Amplitude	6.329 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	7.9	2.0	Search (1024X32)	6.081	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	9.4	0.7	Inc. seg. avg.	6.279	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	6.9	1.2	Inc. frq. avg.	6.293	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
					Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

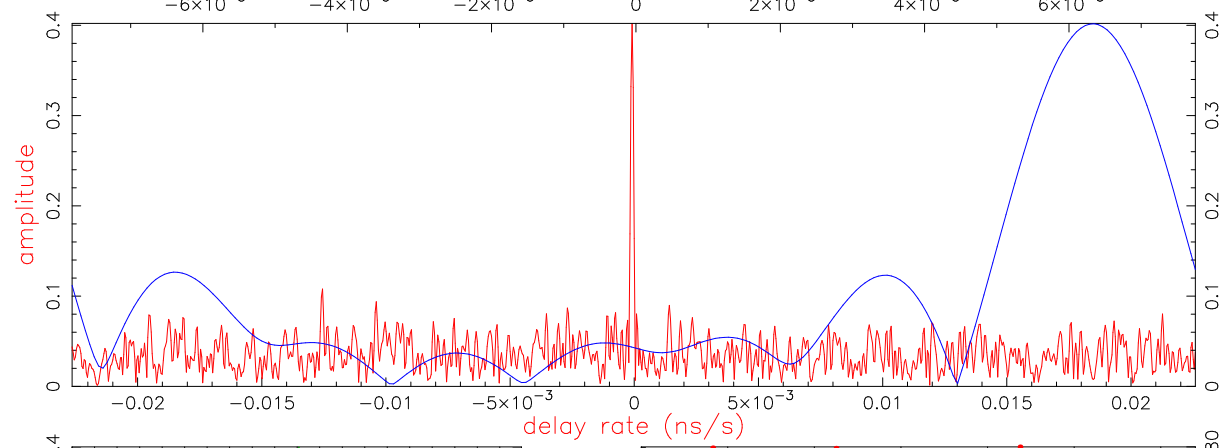
o: az 68.4 el 38.3 pa -68.5 p: az 69.2 el 44.9 pa -76.1 u,v (fr/asec) -189.050 525.103 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/op..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/op.Q.309.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

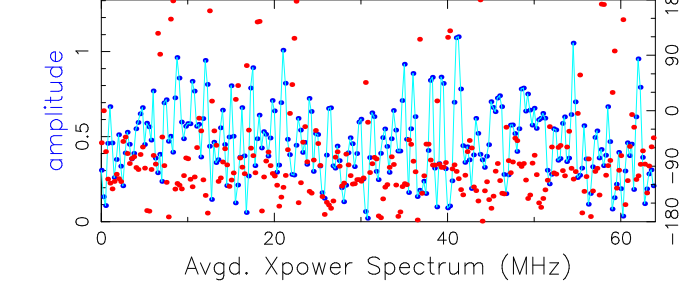
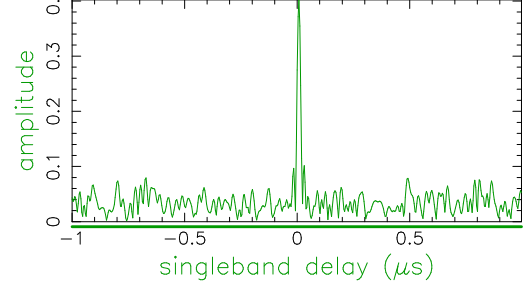
2013+370.3MP56K, No0500, op

VLBA_OV - VLBA_PT, fgroup Q, pol LR



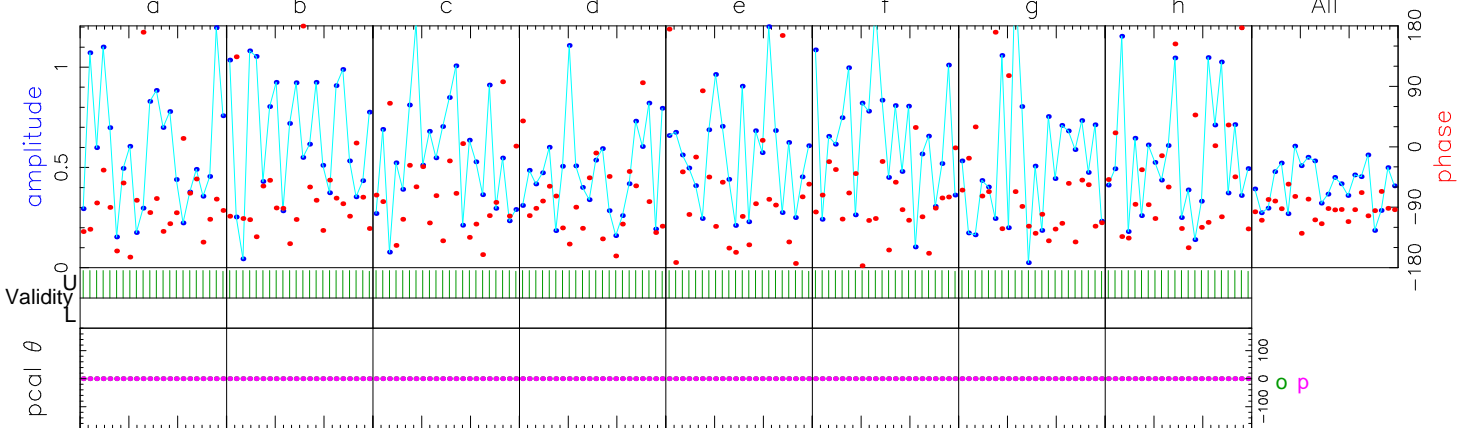
Fringe quality 9

SNR 14.8
 Int time 179.975
 Amp 0.402
 Phase -92.1
 PFD 9.5e-41
 Delays (us)
 SBD 0.007379
 MBD 0.006324
 Fringe rate (Hz) -0.003491
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151840
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



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

Group delay (usec) (SBD)	-1.82403937777E+03	Apriori delay (usec)	-1.82404570190E+03	Resid mbdelay (usec)	6.32413E-03	+/-	7.4E-05
Sband delay (usec)	-1.82403832290E+03	Apriori clock (usec)	1.9352463E+01	Resid sbdelay (usec)	7.37900E-03	+/-	5.8E-04
Phase delay (usec)	-1.82404570783E+03	Apriori clockrate (us/s)	1.0257507E-07	Resid phdelay (usec)	-5.93210E-06	+/-	5.0E-07
Delay rate (us/s)	5.39571814005E-02	Apriori rate (us/s)	5.39572623308E-02	Resid rate (us/s)	-8.09303E-08	+/-	4.8E-09
Total phase (deg)	-300.9	Apriori accel (us/s/s)	1.26280949886E-05	Resid phase (deg)	-92.1	+/-	7.8

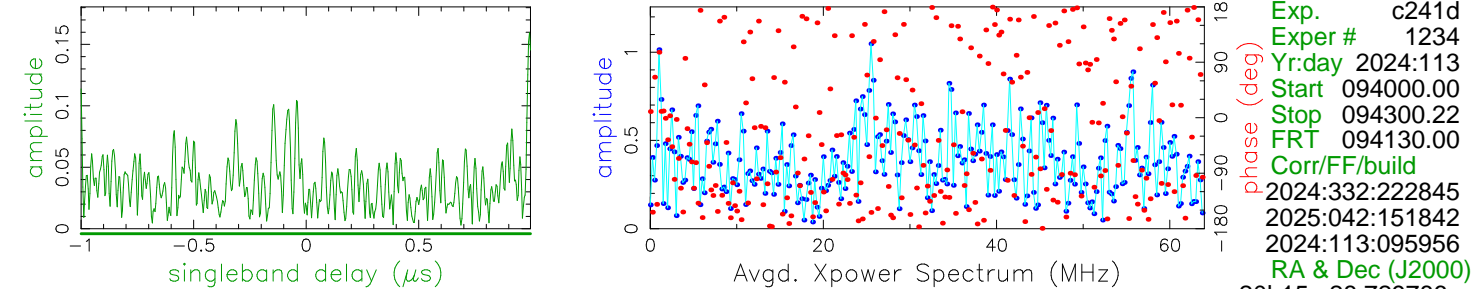
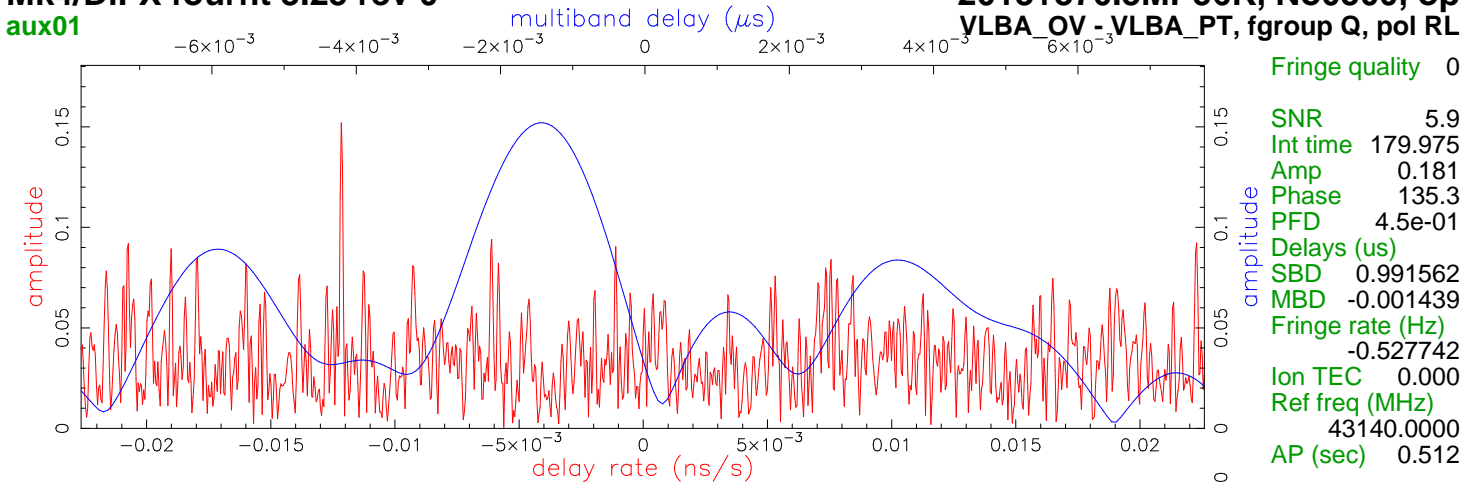
ph/seg (deg)	17.0	Theor.	18.2	Amplitude	0.402 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	27.7		31.8	Search (1024X32)	0.399	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	5.6		11.0	Inc. seg. avg.	0.399	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	20.6		19.2	Inc. frq. avg.	0.396	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023		
		o: az 68.4 el 38.3 pa -68.5		p: az 69.2 el 44.9 pa -76.1		u,v (fr/asec)		-189.050 525.103	ion window (TEC)		0.00 0.00
		Control file: cf_1234_gmva		Input file: /Exps/c241d/v1/7mm/1234/No0500/op..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/op.Q.339.3MP56K		simultaneous interpolator			

Mk4/DiFX fourfit 3.25 rev 0

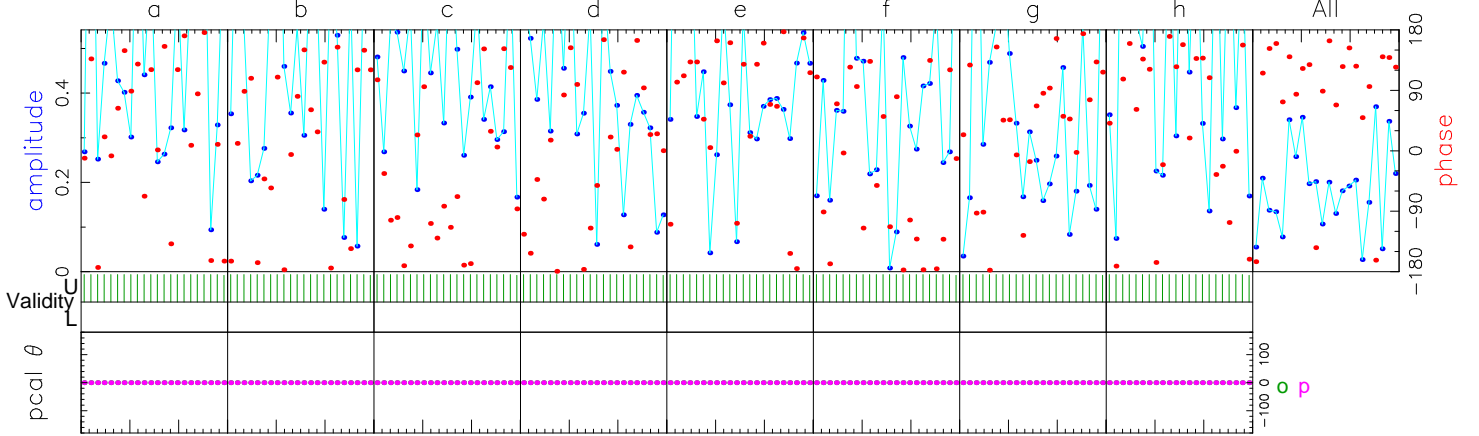
aux01

2013+370.3MP56K, No0500, op

VLBA_OV - VLBA_PT, fgroup Q, pol RL



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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	120.9	114.7	-152.5	-178.7	125.6	146.1	101.4	135.4	Phase	135.3
o	0.2	0.2	0.1	0.1	0.4	0.1	0.1	0.3	Ampl.	0.2
p	392.9	457.3	318.1	1.6	510.5	86.9	326.3	108.0	Sbd box	510.8
o:p	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o:p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o:p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o:p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o:p	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
o:p									Tracks	

Group delay (usec) (SBD)	-1.82304714121E+03	Apriori delay (usec)	-1.82404570190E+03	Resid mbdelay (usec)	-1.43931E-03	+/-	1.9E-04
Sband delay (usec)	-1.82305413940E+03	Apriori clock (usec)	1.9352463E+01	Resid sbdelay (usec)	9.91562E-01	+/-	1.5E-03
Phase delay (usec)	-1.82404569319E+03	Apriori clockrate (us/s)	1.0257507E-07	Resid phdelay (usec)	8.71396E-06	+/-	1.3E-06
Delay rate (us/s)	5.39450290807E-02	Apriori rate (us/s)	5.39572623308E-02	Resid rate (us/s)	-1.22333E-05	+/-	1.2E-08
Total phase (deg)	286.6	Apriori accel (us/s/s)	1.26280949886E-05	Resid phase (deg)	135.3	+/-	19.6

ph/seg (deg)	42.2	Theor.	45.9	Amplitude	0.181 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	62.5	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)	39.4	Inc. seg. avg.	0.161	Inc. frq. avg.	0.174	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	50.7	Inc. frq. avg.	0.174	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)	-0.023 0.023
o: az 68.4 el 38.3 pa -68.5		p: az 69.2 el 44.9 pa -76.1		u, v (fr/asec)	-189.050 525.103	ion window (TEC)	0.00 0.00	simultaneous interpolator		

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/op..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/op.Q.350.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

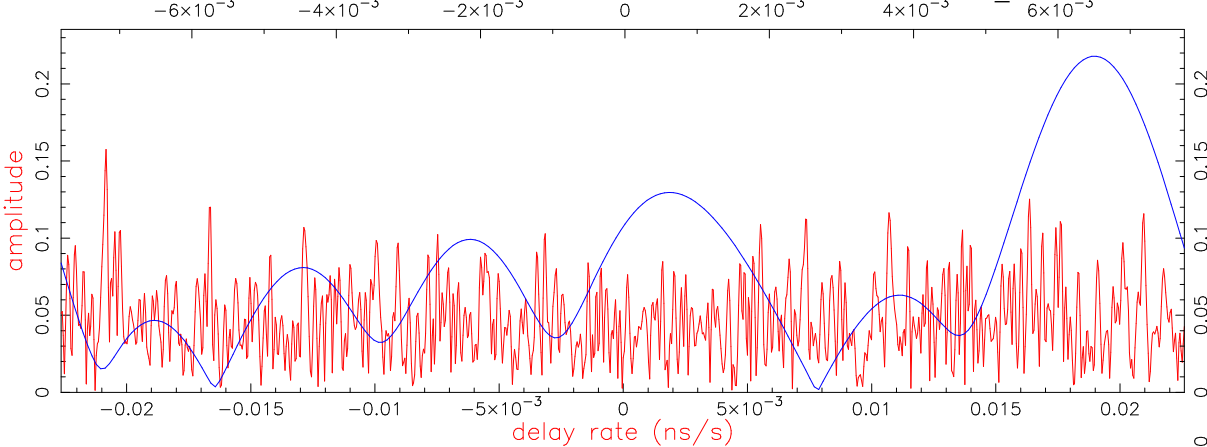
aux01

2013+370.3MP56K, No0500, oY

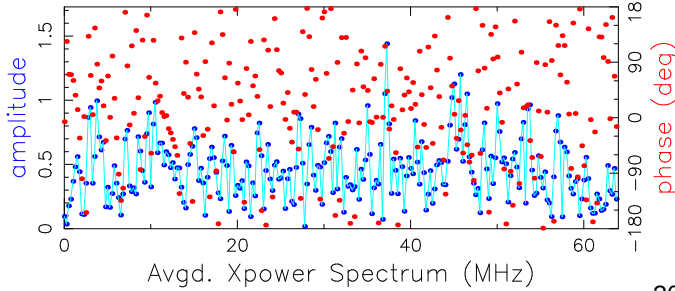
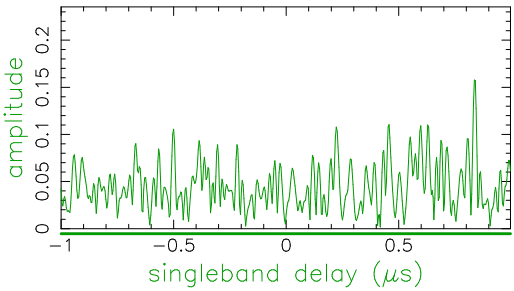
VLBA_OV - YEBES40M, fgroup Q, pol LL

multiband delay (μ s)

Fringe quality 0

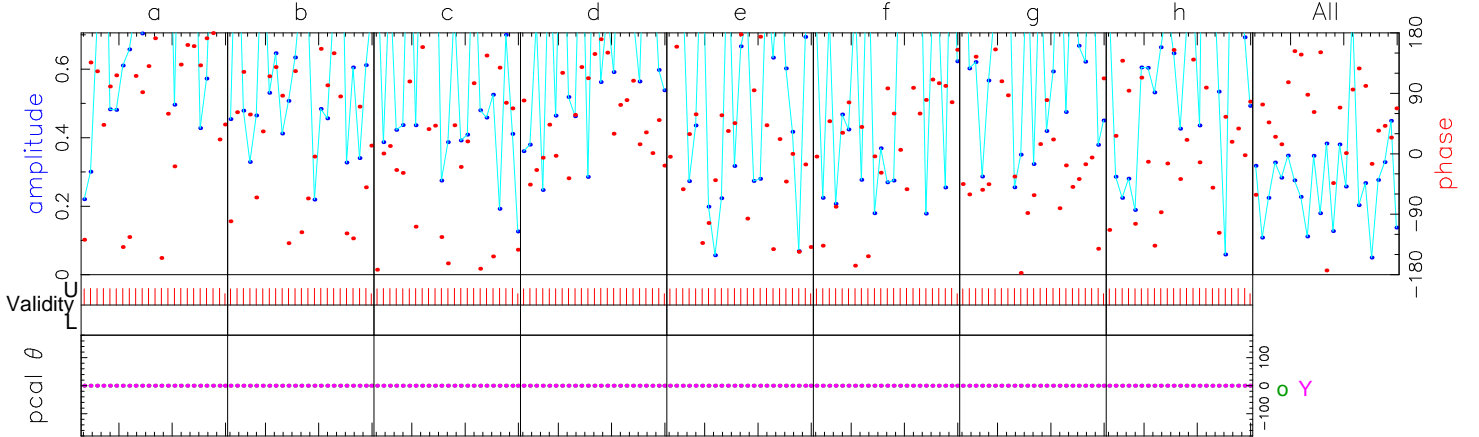


SNR 4.4
 Int time 97.781
 Amp 0.235
 Phase 205.2
 PFD 1.0e+00
 Delays (us)
 SBD 0.837825
 MBD -0.008301
 Fringe rate (Hz)
 -0.902412
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094017.41
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151857
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	131.8	94.8	83.9	67.0	-17.7	71.3	-27.8	22.2	Phase	70.2
o	0.7	0.2	0.3	0.6	0.1	0.4	0.4	0.2	Ampl.	0.3
Y	471.1	360.3	407.7	470.7	245.4	346.3	209.5	115.9	Sbd box	471.5
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	-3.39252877583E+03	Apriori delay (usec)	-3.39336422505E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	2.5E-04
Sband delay (usec)	-3.39252639955E+03	Apriori clock (usec)	1.3604037E+02	Resid sbdelay (usec)	8.37825E-01	+/-	2.0E-03
Phase delay (usec)	-3.39336422053E+03	Apriori clockrate (us/s)	1.4899631E-06	Resid phdelay (usec)	4.52003E-06	+/-	1.7E-06
Delay rate (us/s)	1.61085217659E+00	Apriori rate (us/s)	1.61087309481E+00	Resid rate (us/s)	-2.09182E-05	+/-	1.8E-08
Total phase (deg)	324.5	Apriori accel (us/s/s)	1.57135140720E-05	Resid phase (deg)	205.2	+/-	26.3

ph/seg (deg)	RMS 63.4	Theor. 63.1	Amplitude Search (1024X32)	0.216	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	117.4	110.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	63.6	37.2	Inc. seg. avg.	0.255	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	86.6	65.0	Inc. frq. avg.	0.295	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023
				Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
						ion window (TEC) 0.00 0.00

o: az 68.4 el 38.3 pa -68.5 Y: az 281.3 el 52.4 pa 69.4 u,v (fr/asec) -5798.073 349.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/oY...3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oY.Q.382.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

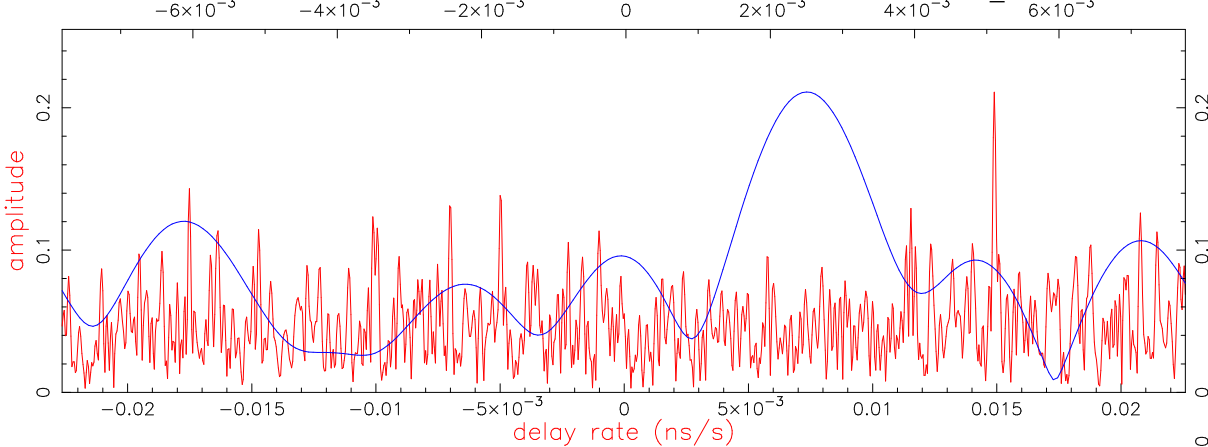
aux01

2013+370.3MP56K, No0500, oY

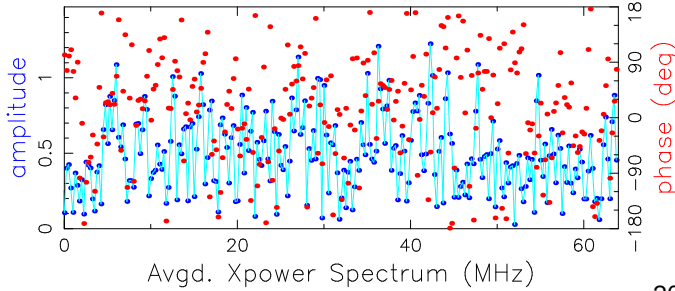
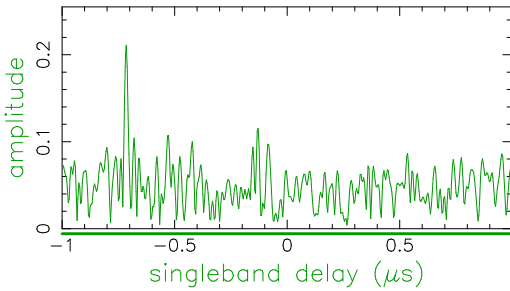
VLBA_OV - YEBES40M, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 0

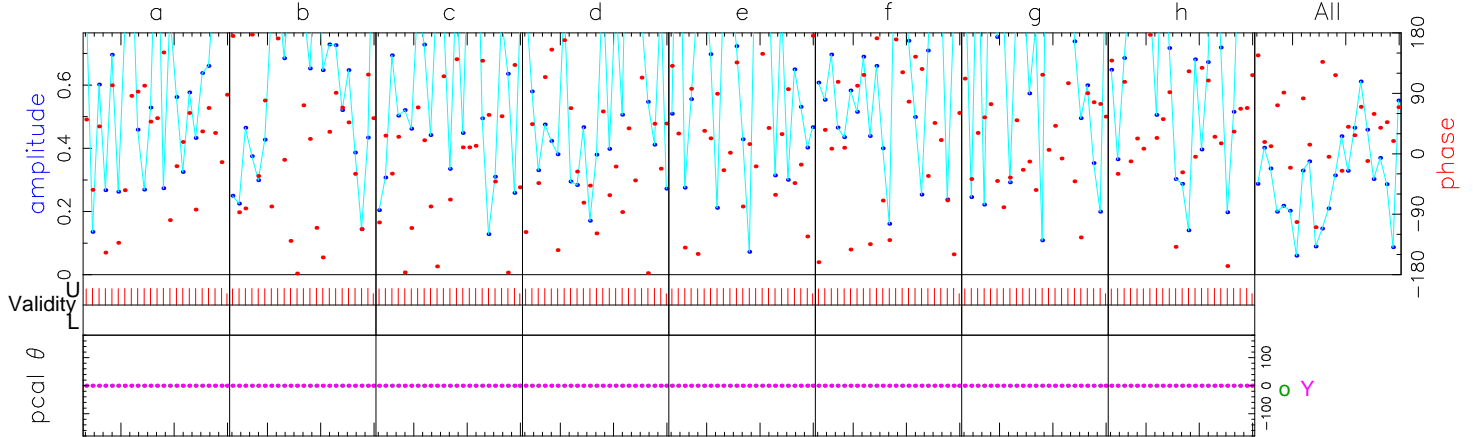


SNR 5.7
 Int time 97.781
 Amp 0.255
 Phase -274.2
 PFD 7.3e-01
 Delays (us)
 SBD -0.715537
 MBD 0.002462
 Fringe rate (Hz) 0.646375
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094017.41
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151859
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	43.0	40.8
o	1000	1000	1000	1000	1000	1000	1000	1000	0.4	0.3
Y	0	0	0	0	0	0	0	0	95.7	73.8
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	274.9	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	27.0	
o	1000	1000	1000	1000	1000	1000	1000	1000	0.2	
Y	1000	1000	1000	1000	1000	1000	1000	1000	0.1	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	0.3	
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	319.8	
o									283.6	
Y									283.6	
o									199.7	
Y									199.7	
o									74.3	
Y									74.3	
o									53.5	
Y									53.5	
o									26.5	
Y									26.5	

Group delay (usec) (SBD)	-3.39408051261E+03	Apriori delay (usec)	-3.39336422505E+03	Resid mbdelay (usec)	2.46244E-03	+/-	1.9E-04
Sband delay (usec)	-3.39407976255E+03	Apriori clock (usec)	1.3604037E+02	Resid sbdelay (usec)	-7.15537E-01	+/-	1.5E-03
Phase delay (usec)	-3.39336422242E+03	Apriori clockrate (us/s)	1.4899631E-06	Resid phdelay (usec)	2.62679E-06	+/-	1.3E-06
Delay rate (us/s)	1.61088807801E+00	Apriori rate (us/s)	1.61087309481E+00	Resid rate (us/s)	1.49832E-05	+/-	1.4E-08
Total phase (deg)	-154.9	Apriori accel (us/s/s)	1.57135140720E-05	Resid phase (deg)	-274.2	+/-	20.0

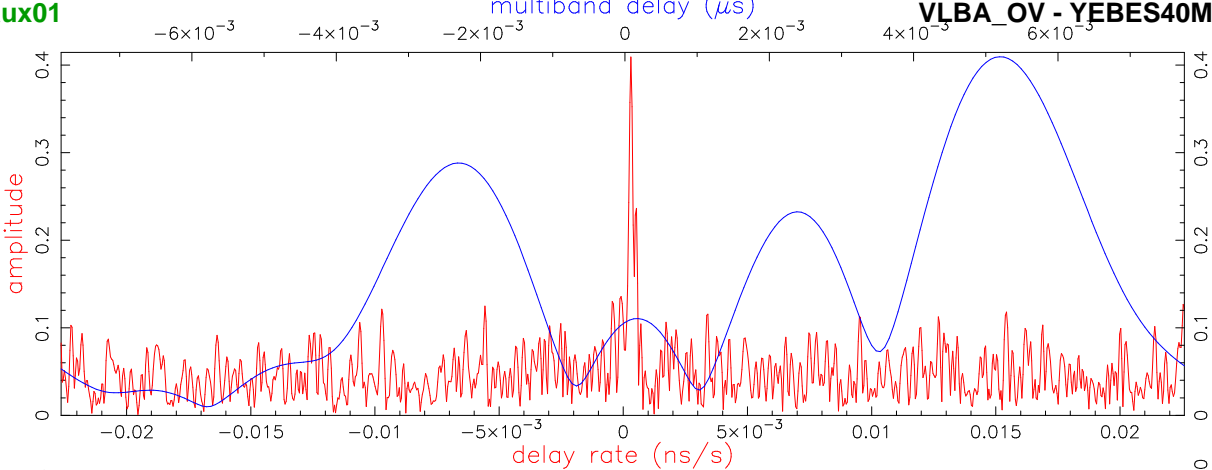
ph/seg (deg)	63.4	Theor.	48.0	Amplitude	0.255 +/- 0.045	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	78.9	Search (1024X32)	0.209	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	39.8	Inc. seg. avg.	0.271	Inc. frq. avg.	0.250	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	62.1	Inc. frq. avg.	0.250			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
o: az 68.4 el 38.3 pa -68.5		Y: az 281.3 el 52.4 pa 69.4		u,v (fr/asec)	-5798.073 349.477	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/c241d/v1/7mm/1234/No0500/oY..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/oY.Q.394.3MP56K		simultaneous interpolator				

Mk4/DiFX fourfit 3.25 rev 0

aux01

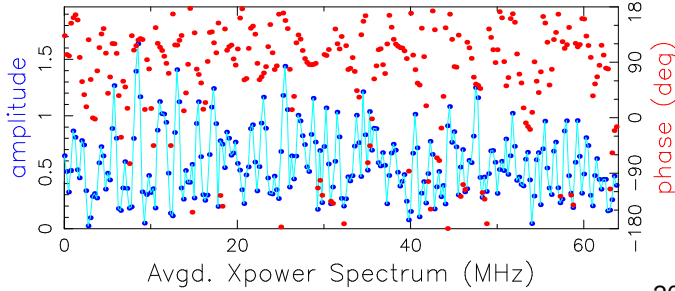
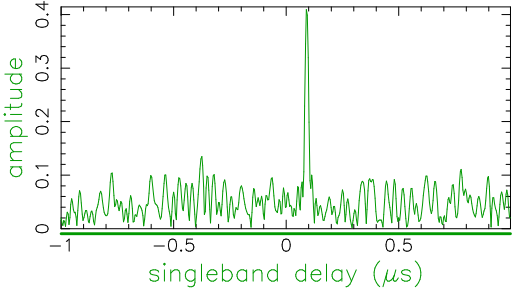
2013+370.3MP56K, No0500, oY

VLBA_OV - YEBES40M, fgroup Q, pol LR



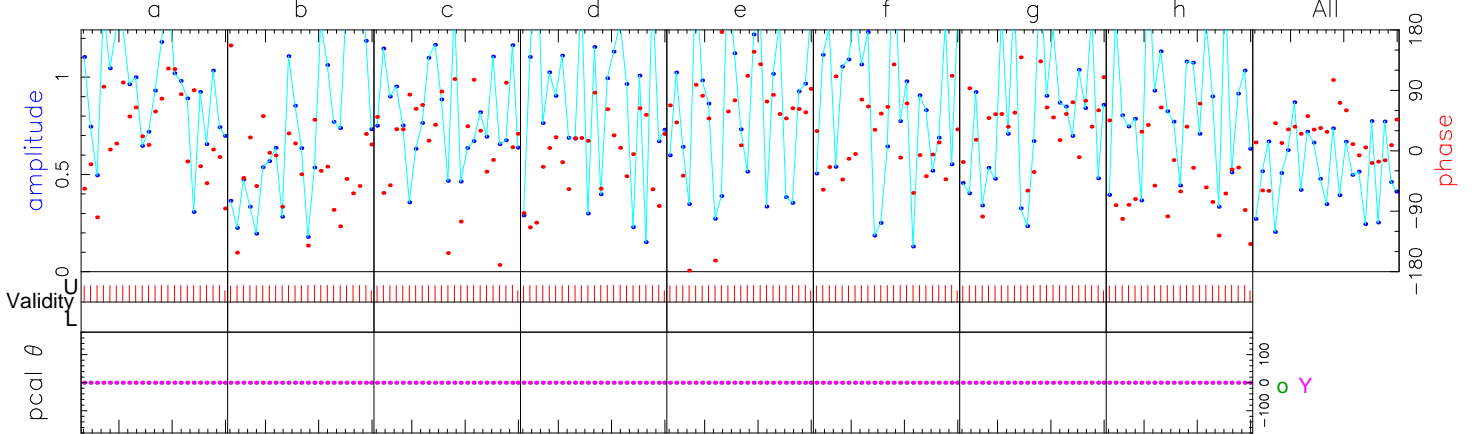
Fringe quality 9

SNR 11.2
 Int time 97.781
 Amp 0.415
 Phase 154.7
 PFD 8.7e-21
 Delays (us)
 SBD 0.091279
 MBD 0.005243
 Fringe rate (Hz) 0.014039
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094017.41
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151904
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) -3.39326523241E+03 Apriori delay (usec) -3.39336422505E+03 Resid mbdelay (usec) 5.24264E-03 +/- 9.7E-05
 Sband delay (usec) -3.39327294555E+03 Apriori clock (usec) 1.3604037E+02 Resid sbdelay (usec) 9.12795E-02 +/- 7.7E-04
 Phase delay (usec) -3.39336422378E+03 Apriori clockrate (us/s) 1.4899631E-02 Resid phdelay (usec) 1.26668E-06 +/- 6.6E-07
 Delay rate (us/s) 1.61087342024E+00 Apriori rate (us/s) 1.61087309481E+00 Resid rate (us/s) 3.25427E-07 +/- 7.0E-09
 Total phase (deg) 273.9 Apriori accel (us/s/s) 1.57135140720E-05 Resid phase (deg) 154.7 +/- 10.2

ph/seg (deg) RMS Theor. Amplitude 0.415 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 37.6 24.5 Search (1024X32) 0.395 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.3 42.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.0 14.5 Inc. seg. avg. 0.481 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 68.4 el 38.3 pa -68.5 Y: az 281.3 el 52.4 pa 69.4 u,v (fr/asec) -5798.073 349.477 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/oY...3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oY.Q.401.3MP56K

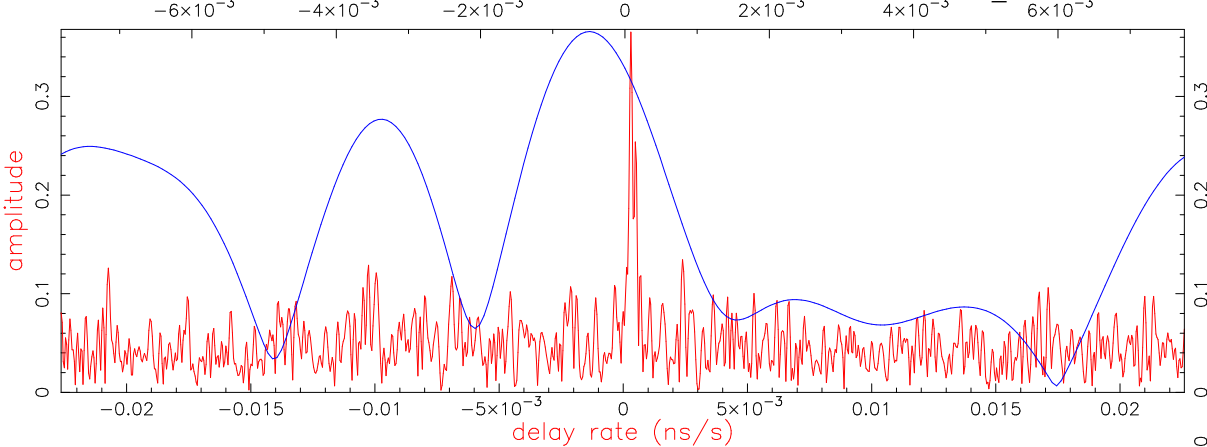
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, oY

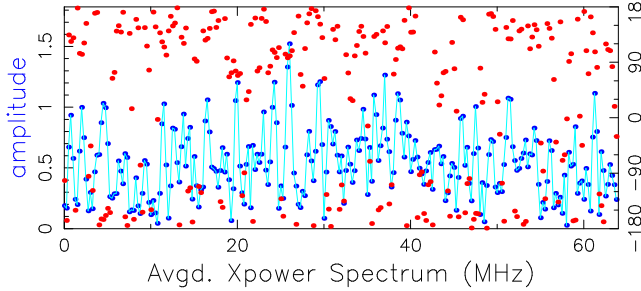
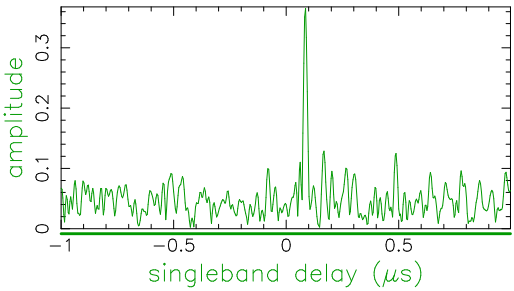
VLBA_OV - YEBES40M, fgroup Q, pol RL

multiband delay (μ s)



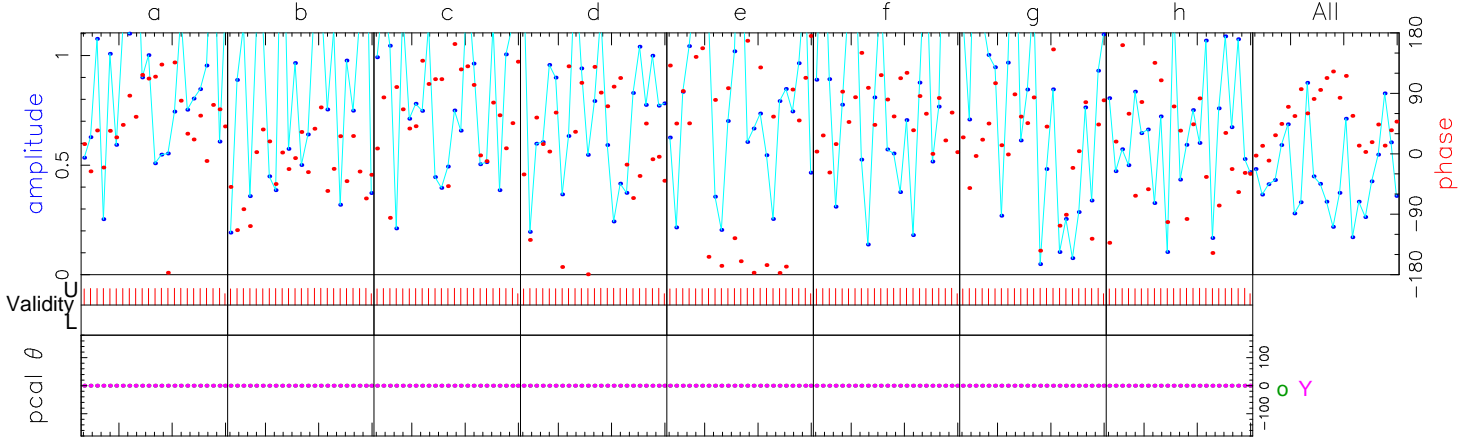
Fringe quality 9

SNR 9.9
 Int time 97.781
 Amp 0.368
 Phase 342.6
 PFD 5.4e-15
 Delays (us)
 SBD 0.084819
 MBD -0.000549
 Fringe rate (Hz)
 0.014277
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094017.41
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151906
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD) -3.39328664894E+03 Apriori delay (usec) -3.39336422505E+03 Resid mbdelay (usec) -5.48894E-04 +/- 1.1E-04
 Sband delay (usec) -3.39327940580E+03 Apriori clock (usec) 1.3604037E+02 Resid sbdelay (usec) 8.48192E-02 +/- 8.7E-04
 Phase delay (usec) -3.39336422182E+03 Apriori clockrate (us/s) 1.4899631E-06 Resid phdelay (usec) 3.22680E-06 +/- 7.4E-07
 Delay rate (us/s) 1.61087309481E+00 Apriori rate (us/s) 1.61087309481E+00 Resid rate (us/s) 3.30940E-07 +/- 7.9E-09
 Total phase (deg) 101.9 Apriori accel (us/s/s) 1.57135140720E-05 Resid phase (deg) 342.6 +/- 11.5

ph/seg (deg) 39.3 27.6 Amplitude 0.368 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.4 48.2 Search (1024X32) 0.350 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.6 16.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.3 28.4 Inc. seg. avg. 0.410 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

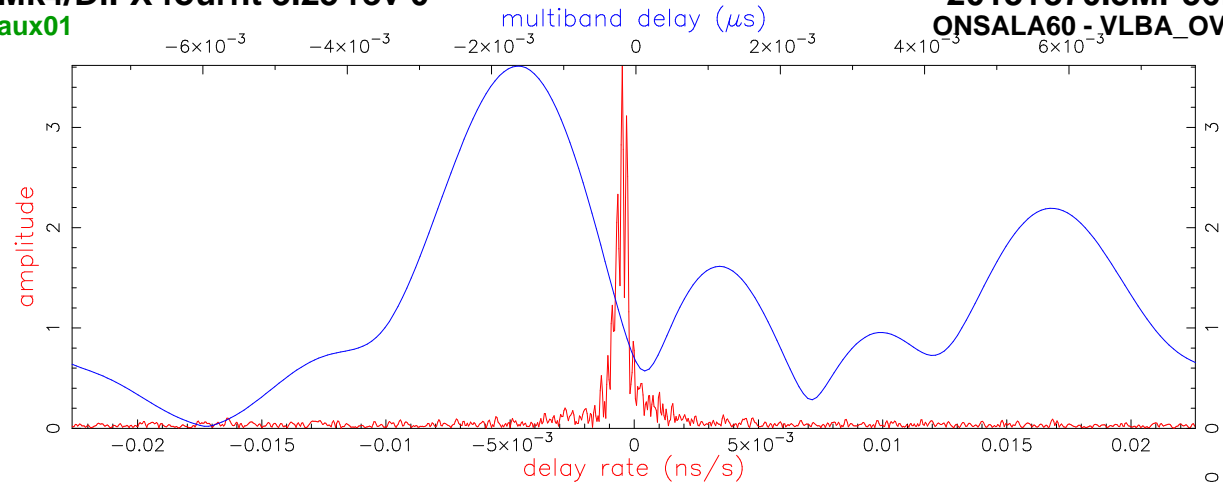
o: az 68.4 el 38.3 pa -68.5 Y: az 281.3 el 52.4 pa 69.4 u,v (fr/asec) -5798.073 349.477 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/oY...3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/oY.Q.405.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

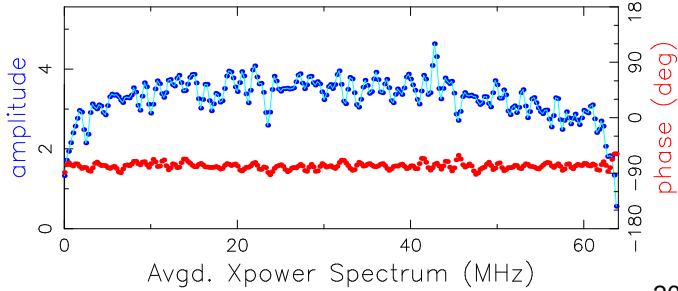
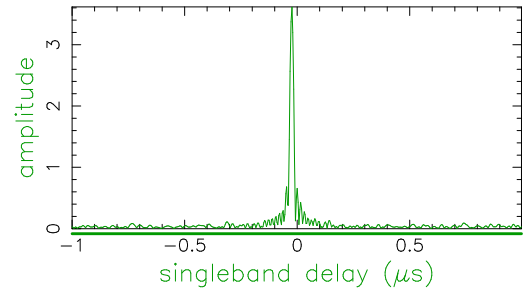
2013+370.3MP56K, No0500, Xo

ONSALA60 - VLBA_OV, fgroup Q, pol LL



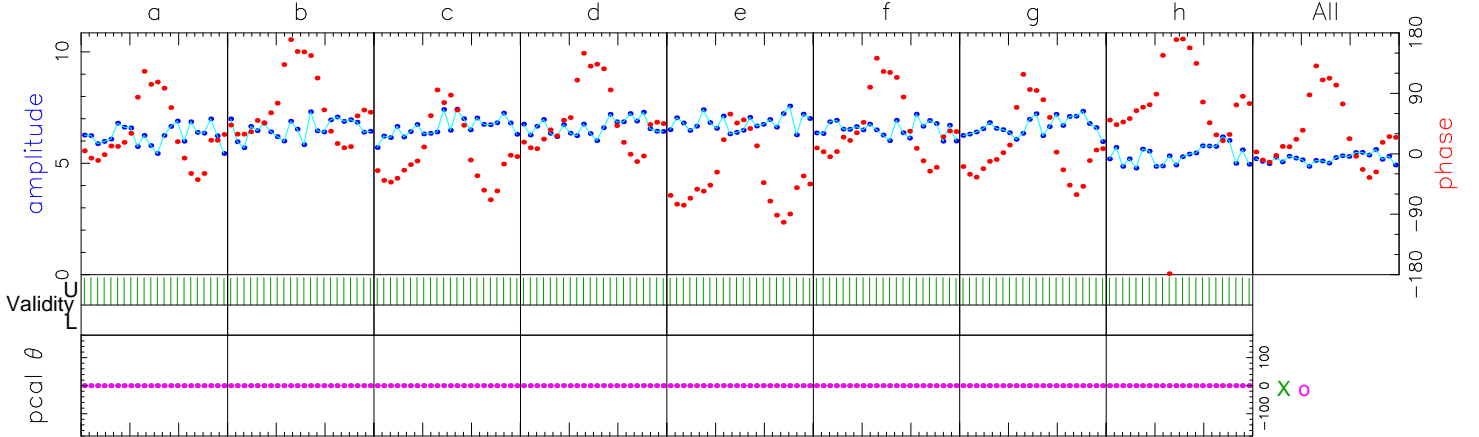
Fringe quality 2

SNR 132.6
 Int time 179.835
 Amp 3.618
 Phase -177.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.023970
 MBD -0.001650
 Fringe rate (Hz)
 -0.021692
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151830
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD) 1.64716932769E+03 Apriori delay (usec) 1.64718660306E+03 Resid mbdelay (usec) -1.65037E-03 +/- 8.2E-06
 Sband delay (usec) 1.64716263256E+03 Apriori clock (usec) 8.7867279E+01 Resid sbdelay (usec) -2.39705E-02 +/- 6.5E-05
 Phase delay (usec) 1.64718660464E+03 Apriori clockrate (us/s) 7.3535102E-07 Resid phdelay (usec) 1.58559E-06 +/- 5.6E-08
 Delay rate (us/s) -1.50011799629E+00 Apriori rate (us/s) -1.50011749346E+00 Resid rate (us/s) -5.02834E-07 +/- 5.3E-10
 Total phase (deg) -157.8 Apriori accel (us/s/s) 7.93355489341E-06 Resid phase (deg) -177.9 +/- 0.9

RMS Theor. Amplitude 3.618 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 48.8 2.0 Search (1024X32) 3.448 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 44.5 3.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 41.8 1.2 Inc. seg. avg. 5.212 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 23.8 2.1 Inc. frq. avg. 4.418 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

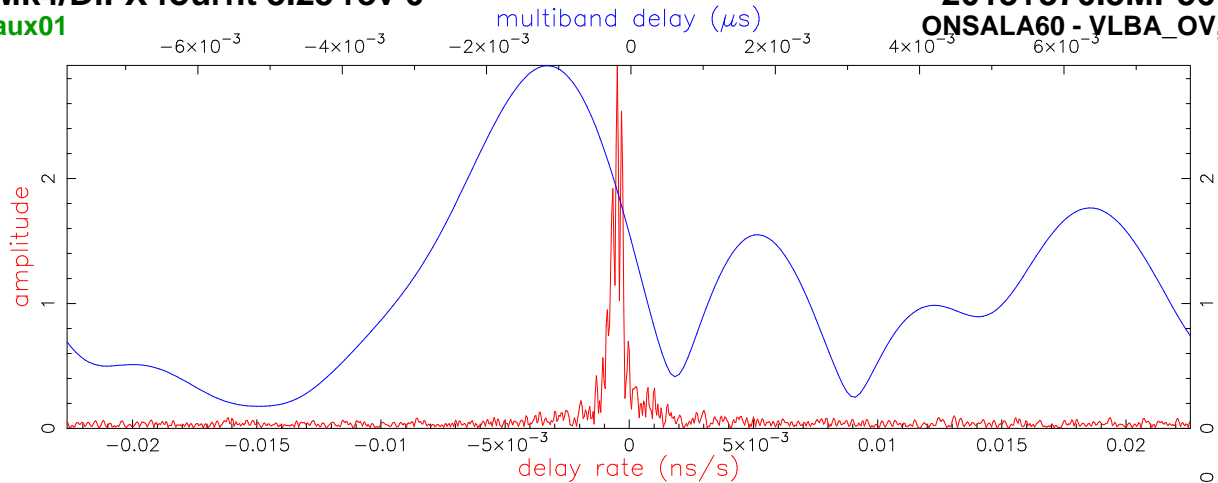
X: az 272.4 el 44.4 pa 42.5 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5410.071 1041.532 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Xo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Xo.Q.294.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

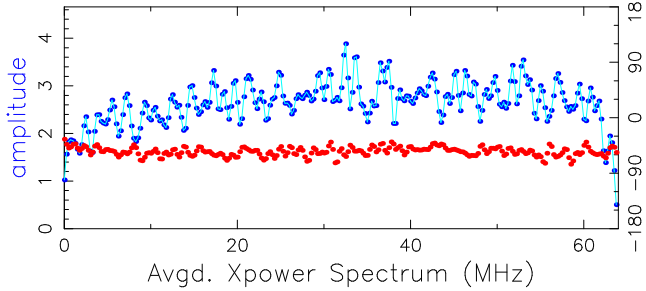
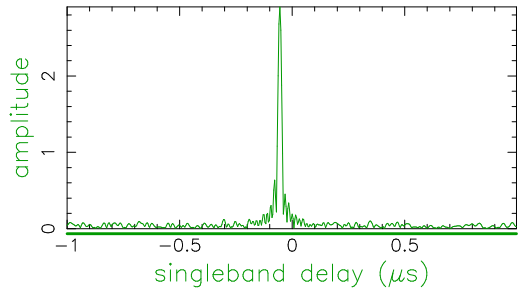
2013+370.3MP56K, No0500, Xo

ONSALA60 - VLBA_OV, fgroup Q, pol RR



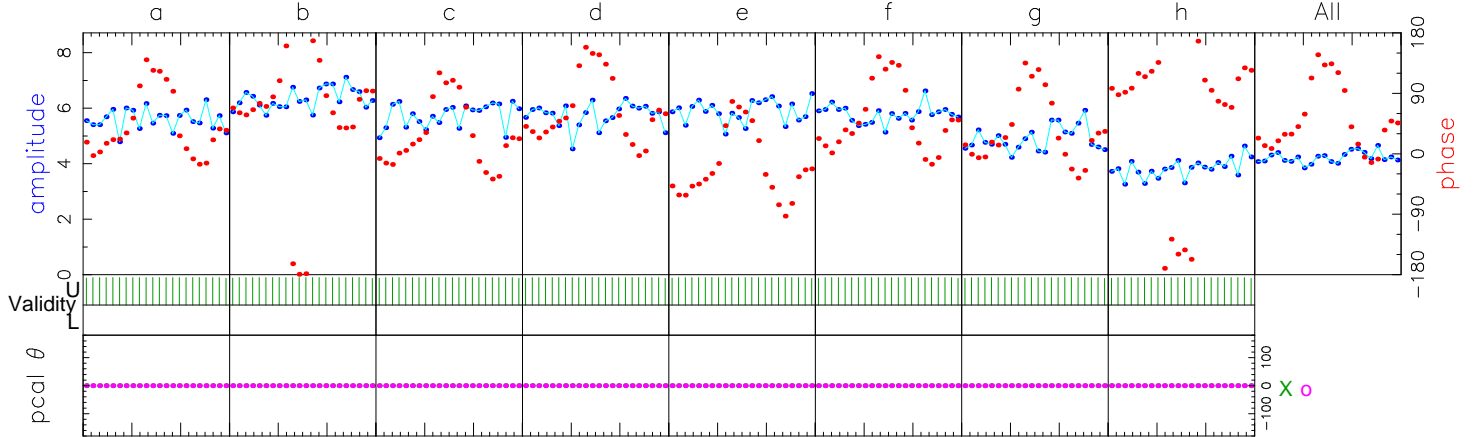
Fringe quality 2

SNR 106.6
 Int time 179.835
 Amp 2.906
 Phase -202.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.055003
 MBD -0.001167
 Fringe rate (Hz)
 -0.021647
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151837
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	37.5	91.5	22.5	59.7	-25.4	45.4	28.1	124.7	Phase	44.8
	3.9	4.3	4.0	3.9	4.1	3.9	3.3	2.6	Ampl.	3.8
	243.2	243.3	243.4	243.3	243.7	243.3	243.7	244.7	Sbd box	242.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD)	1.64713856097E+03	Apriori delay (usec)	1.64718660306E+03	Resid mbdelay (usec)	-1.16708E-03	+/-	1.0E-05
Sband delay (usec)	1.64713159981E+03	Apriori clock (usec)	8.7867279E+01	Resid sbdelay (usec)	-5.50032E-02	+/-	8.1E-05
Phase delay (usec)	1.64718660594E+03	Apriori clockrate (us/s)	7.3535102E-07	Resid phdelay (usec)	2.88590E-06	+/-	6.9E-08
Delay rate (us/s)	-1.50011799524E+00	Apriori rate (us/s)	-1.50011749346E+00	Resid rate (us/s)	-5.01784E-07	+/-	6.7E-10
Total phase (deg)	-182.6	Apriori accel (us/s/s)	7.93355489341E-06	Resid phase (deg)	-202.7	+/-	1.1

ph/seg (deg)	49.1	2.5	Search (1024X32)	2.783	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	46.0	4.4	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)	49.3	1.5	Inc. seg. avg.	4.226	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
amp/frq (%)	34.0	2.7	Inc. frq. avg.	3.759	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

X: az 272.4 el 44.4 pa 42.5 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5410.071 1041.532 simultaneous interpolator

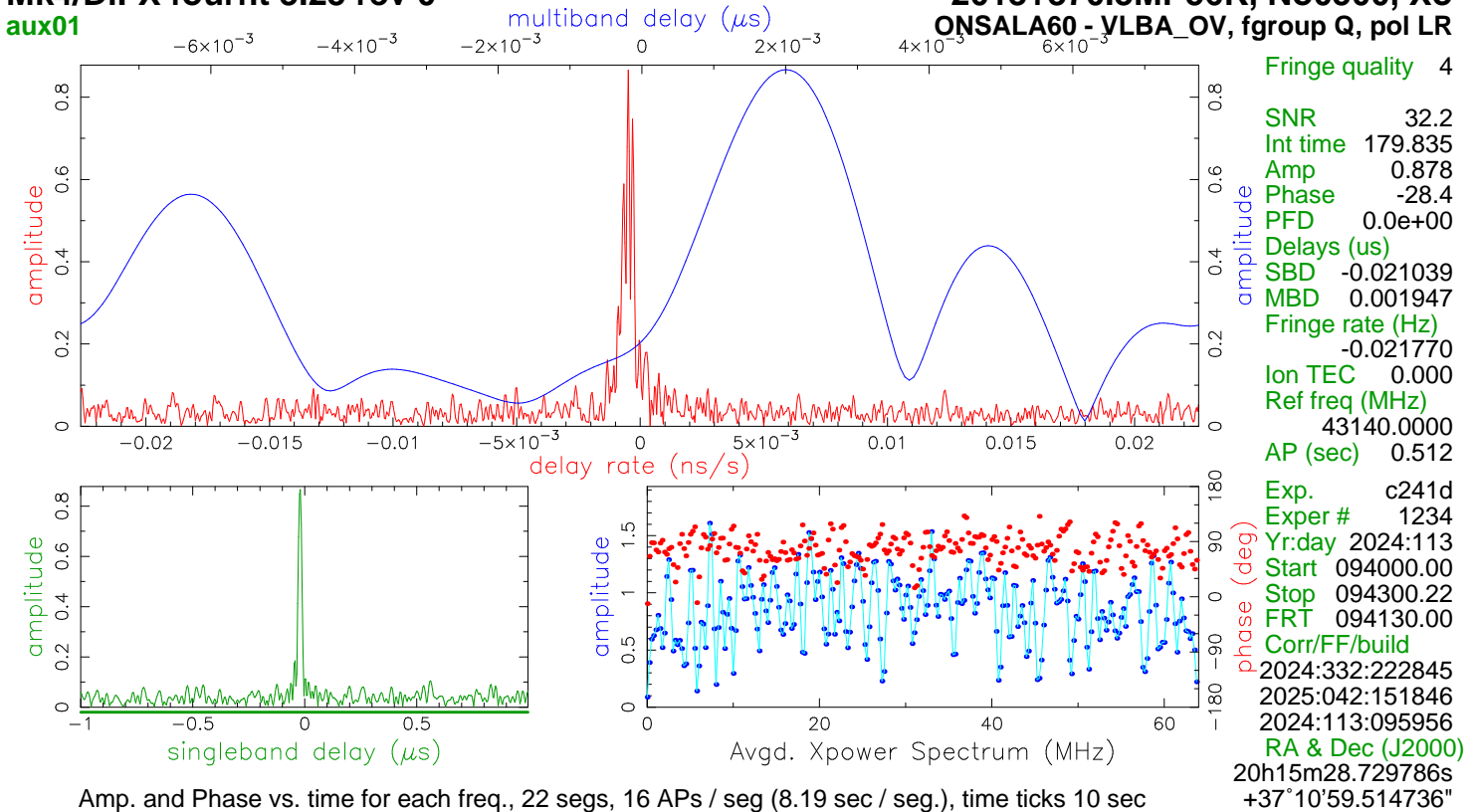
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Xo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Xo.Q.329.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

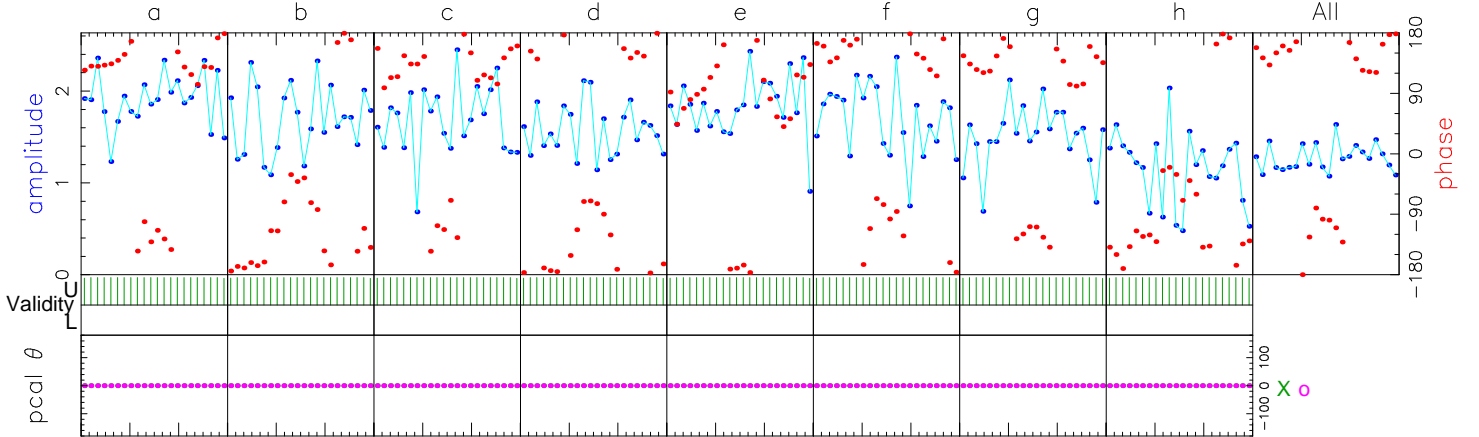
aux01

2013+370.3MP56K, No0500, Xo

ONSALA60 - VLBA_OV, fgroup Q, pol LR



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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	160.6	-133.4	150.2	-166.1	110.4	-175.1	162.8	-128.1	Phase	174.1
X	1.3	1.1	1.1	1.1	1.2	1.1	1.0	0.7	Ampl.	1.1
o	251.5	252.2	252.0	251.9	252.0	252.4	252.2	253.9	Sbd box	251.6
X:0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X:o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.64717292541E+03		Apriori delay (usec)		1.64718660306E+03		Resid mbdelay (usec)		1.94735E-03	+/- 3.4E-05
Sband delay (usec)	1.64716556431E+03		Apriori clock (usec)		8.7867279E+01		Resid sbdelay (usec)		-2.10388E-02	+/- 2.7E-04
Phase delay (usec)	1.64718661427E+03		Apriori clockrate (us/s)		7.3535102E-07		Resid phdelay (usec)		1.12115E-05	+/- 2.3E-07
Delay rate (us/s)	-1.50011799810E+00		Apriori rate (us/s)		-1.50011749346E+00		Resid rate (us/s)		-5.04642E-07	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		7.93355489341E-06		Resid phase (deg)		-28.4	+/- 3.6
	RMS	Theor.	Amplitude	0.878 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	49.0	8.3	Search (1024X32)	0.823		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000		
amp/seg (%)	48.3	14.6	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled mb window (us) -0.008 0.008		
ph/frq (deg)	43.9	5.0	Inc. seg. avg.	1.263		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s) -0.023 0.023		
amp/frq (%)	29.7	8.8	Inc. frq. avg.	1.074		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00		
X: az 272.4 el 44.4 pa 42.5	o: az 68.4 el 38.3 pa -68.5		u,v (fr/asec) 5410.071 1041.532		simultaneous interpolator					
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0500/Xo..3MP56K		Output file: /Exps/c241d/v1/7mm/1234/No0500/Xo.Q.355.3MP56K							

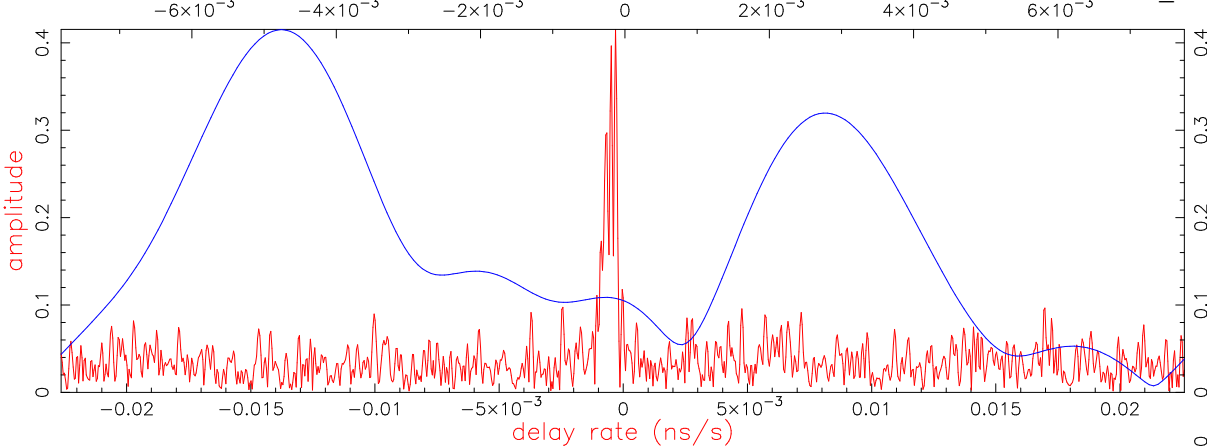
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, Xo

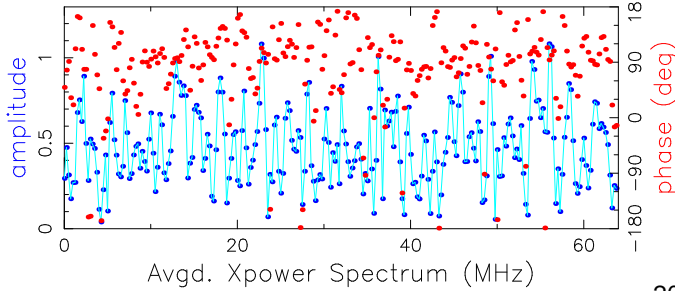
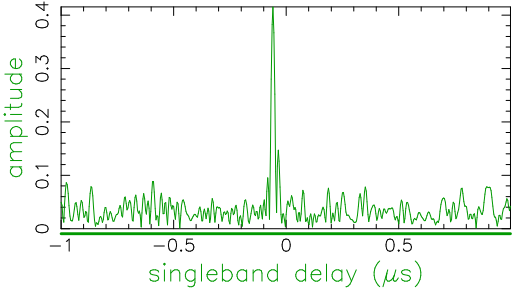
ONSALA60 - VLBA_OV, fgroup Q, pol RL

multiband delay (μ s)



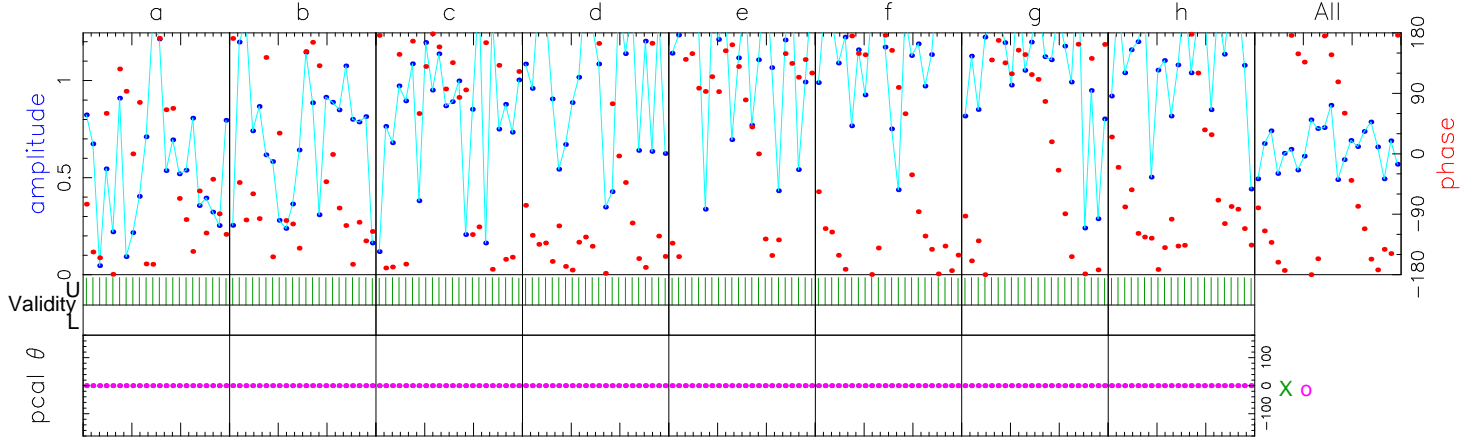
Fringe quality 7

SNR 15.2
 Int time 179.835
 Amp 0.415
 Phase -50.2
 PFD 7.0e-44
 Delays (us)
 SBD -0.058967
 MBD -0.004782
 Fringe rate (Hz)
 -0.013687
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151854
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



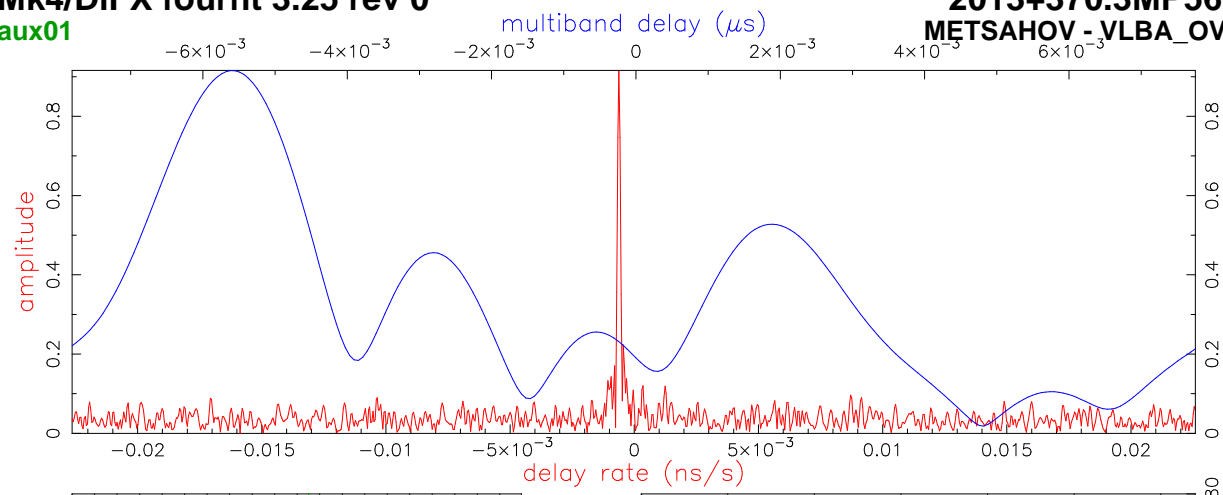
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-153.2	-110.8	166.1	-132.5	139.8	-154.5	156.6	-100.2	Phase	-162.7
	0.2	0.4	0.6	0.7	0.7	0.7	0.6	0.6	Ampl.	0.5
	73.2	242.4	242.7	242.2	243.0	242.1	242.9	244.1	Sbd box	241.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.64713494572E+03				1.64718660306E+03				Resid mbdelay (usec)	-4.78234E-03 +/- 7.1E-05
Sband delay (usec)	1.64712763581E+03				8.7867279E+01				Resid sbdelay (usec)	-5.89673E-02 +/- 5.7E-04
Phase delay (usec)	1.64718659258E+03				7.3535102E-07				Resid phdelay (usec)	-1.04743E-05 +/- 4.8E-07
Delay rate (us/s)	-1.50011781071E+00				-1.50011749346E+00				Resid rate (us/s)	-3.17258E-07 +/- 4.7E-09
Total phase (deg)			-30.1		7.93355489341E-06				Resid phase (deg)	-50.2 +/- 7.5
	RMS	Theor.	Amplitude	0.415 +/- 0.027					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	57.6	17.6	Search (1024X32)	0.408					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	63.1	30.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	47.6	10.6	Inc. seg. avg.	0.625					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.023 0.023
amp/frq (%)	52.8	18.6	Inc. frq. avg.	0.543					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
X: az 272.4 el 44.4 pa 42.5			o: az 68.4 el 38.3 pa -68.5						u,v (fr/asec) 5410.071 1041.532	ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva			Input file: /Exps/c241d/v1/7mm/1234/No0500/Xo..3MP56K						Output file: /Exps/c241d/v1/7mm/1234/No0500/Xo.Q.370.3MP56K	simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, Zo

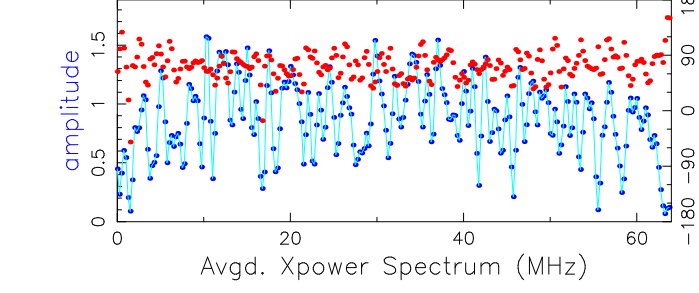
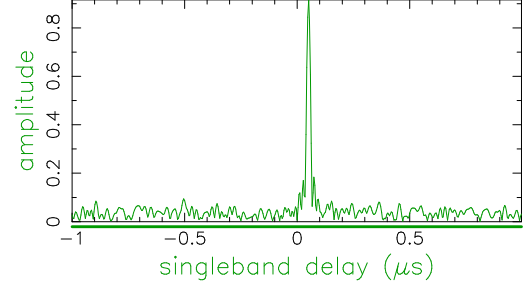
MEṬSAHOV - VLBA_OV, fgroup Q, pol LL



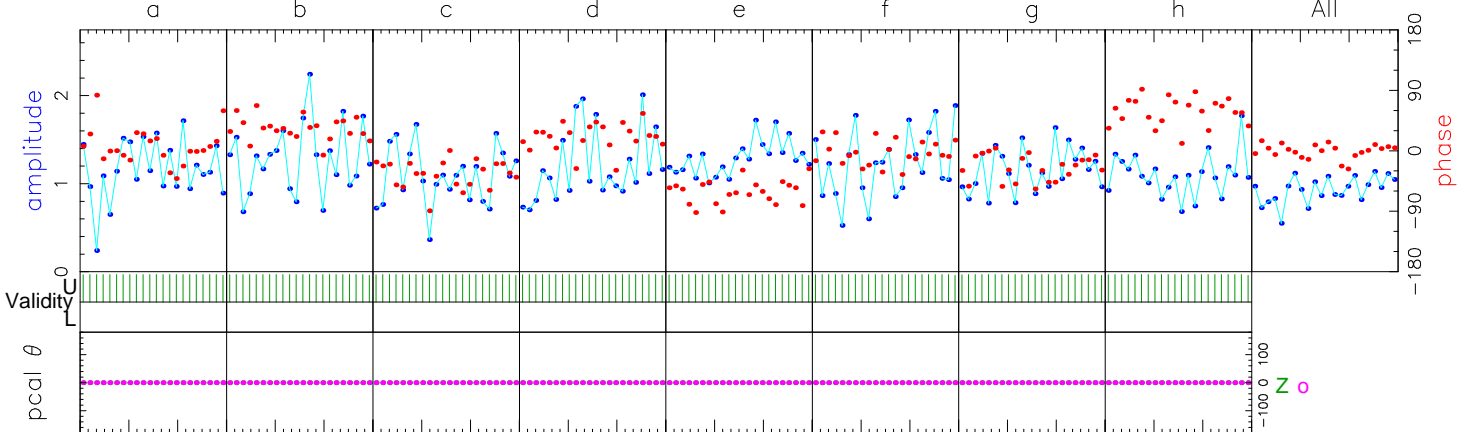
Fringe quality 6

SNR 33.6
 Int time 179.947
 Amp 0.916
 Phase 89.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.050557
 MBD -0.005598
 Fringe rate (Hz)
 -0.027323
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151822
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



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

Group delay (usec) (SBD)	-1.73094539167E+02	Apriori delay (usec)	-1.73151441492E+02	Resid mbdelay (usec)	-5.59767E-03	+/-	3.2E-05
Sband delay (usec)	-1.73100884742E+02	Apriori clock (usec)	-2.4954468E+01	Resid sbdelay (usec)	5.05567E-02	+/-	2.6E-04
Phase delay (usec)	-1.73151441523E+02	Apriori clockrate (us/s)	1.2858790E-07	Resid phdelay (usec)	-3.02109E-08	+/-	2.2E-07
Delay rate (us/s)	-1.49810619803E+00	Apriori rate (us/s)	-1.49810556468E+00	Resid rate (us/s)	-6.33345E-07	+/-	2.1E-09
Total phase (deg)	22.6	Apriori accel (us/s/s)	1.87612721011E-05	Resid phase (deg)	89.5	+/-	3.4

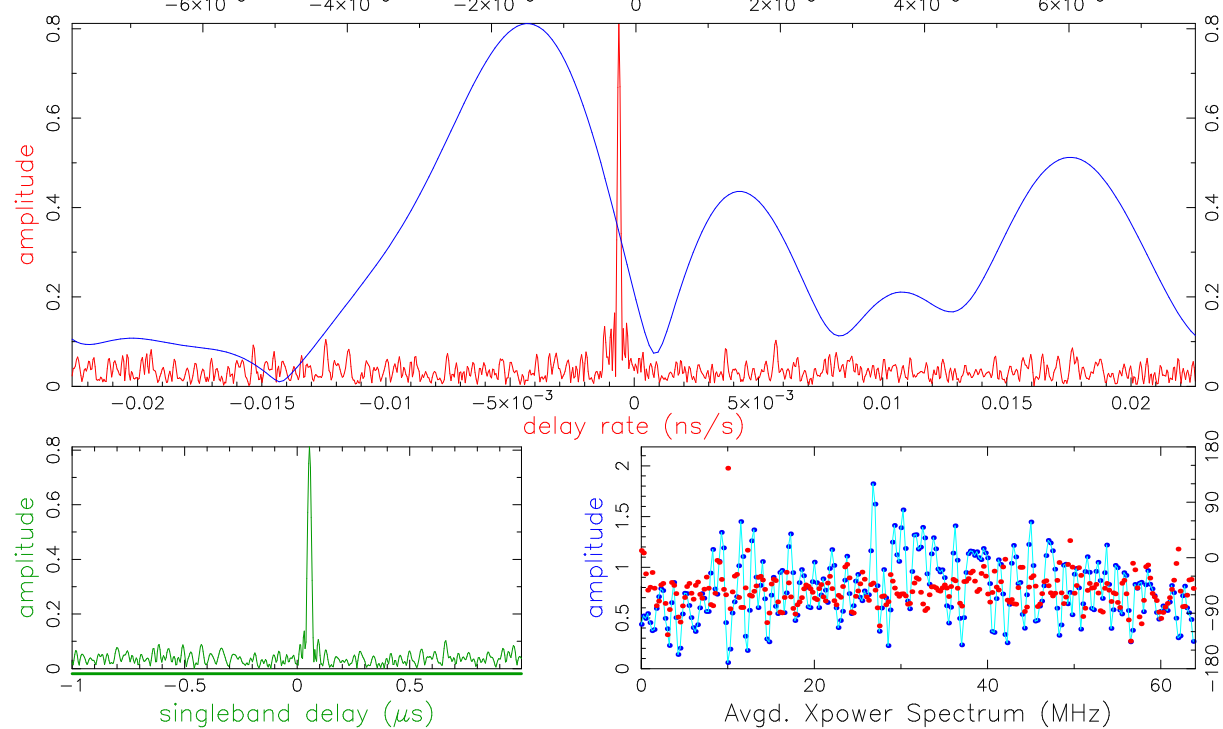
ph/seg (deg) 10.5 8.0 Search (1024X32) 0.880 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 16.2 14.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.9 4.8 Inc. seg. avg. 0.922 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.6 8.4 Inc. frq. avg. 1.125 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Z: az 280.0 el 38.3 pa 37.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5407.324 1455.832 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500//Zo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500//Zo.Q.249.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, Zo

ME TSAHOV - VLBA_OV, fgroup Q, pol RR

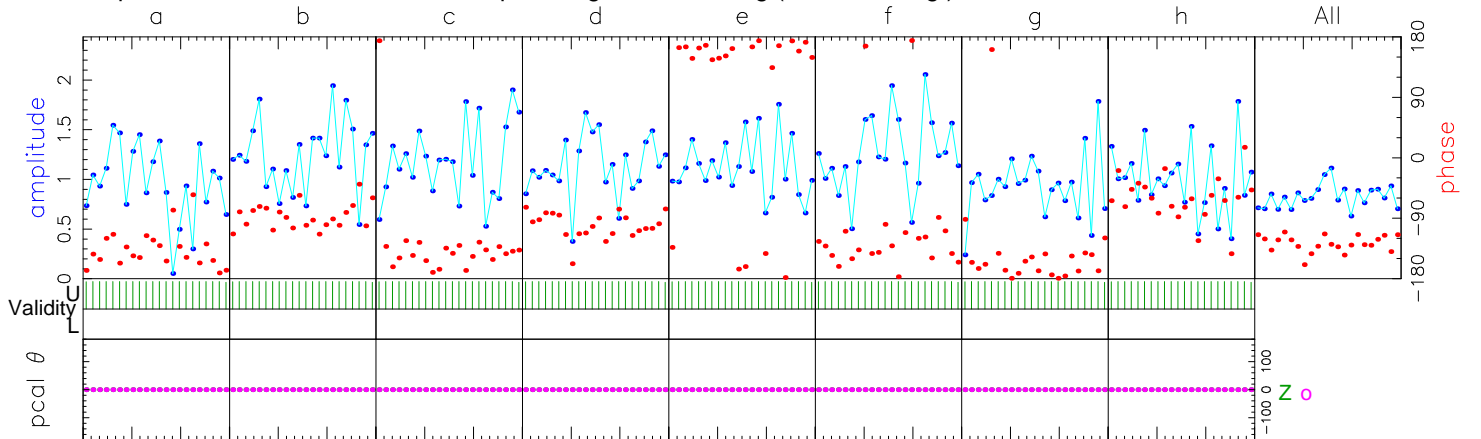


Fringe quality 6

SNR 29.8
 Int time 179.947
 Amp 0.812
 Phase 322.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.054468
 MBD -0.001509
 Fringe rate (Hz) -0.027529
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2024:332:222845
 2025:042:151831
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	0	0	0	0	0	0	0	0		
Z:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
o	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
Group delay (usec) (SBD)	-1.73090450042E+02	-1.73096973242E+02	-1.73151449710E+02	-1.49810620282E+00						
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)			255.4							
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)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
simultaneous interpolator										

Z: az 280.0 el 38.3 pa 37.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5407.324 1455.832 simultaneous interpolator

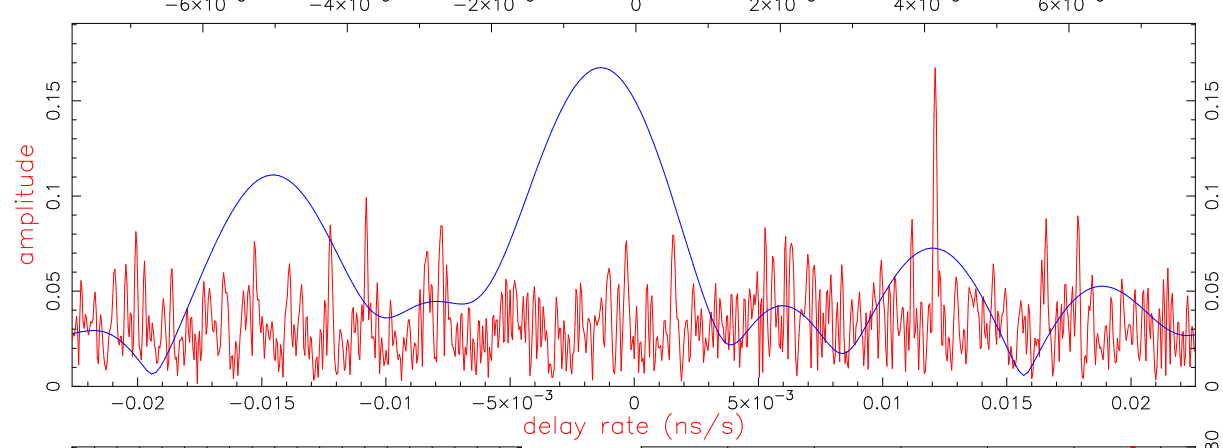
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Zo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Zo.Q.296.3MP56K

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP56K, No0500, Zo

MEṬSAHOV - VLBA_OV, fgroup Q, pol LR



Fringe quality 0

SNR 6.2

Int time 179.947

Amp 0.191

Phase 232.0

PFD 7.6e-02

Delays (us)

SBD 0.227895

MBD -0.000440

Fringe rate (Hz)

0.525114

Ion TEC 0.000

Ref freq (MHz)

43140.0000

AP (sec) 0.512

Exp. c241d

Exper # 1234

Yr:day 2024:113

Start 094000.00

Stop 094300.22

FRT 094130.00

Corr/FF/build

2024:332:222845

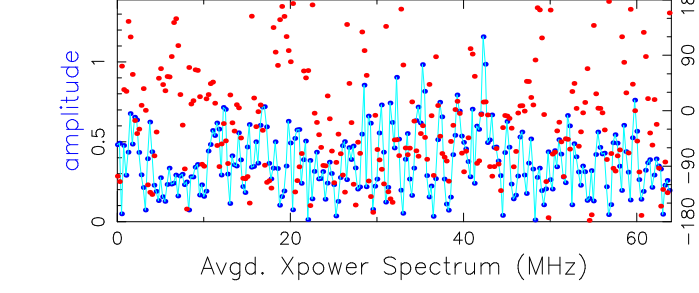
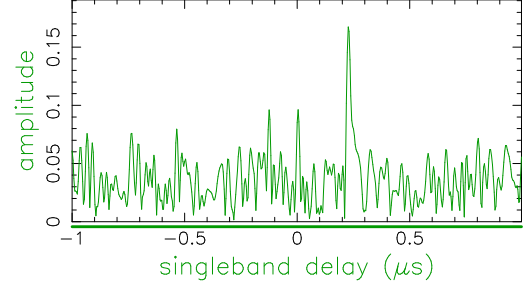
2025:042:151833

2024:113:095956

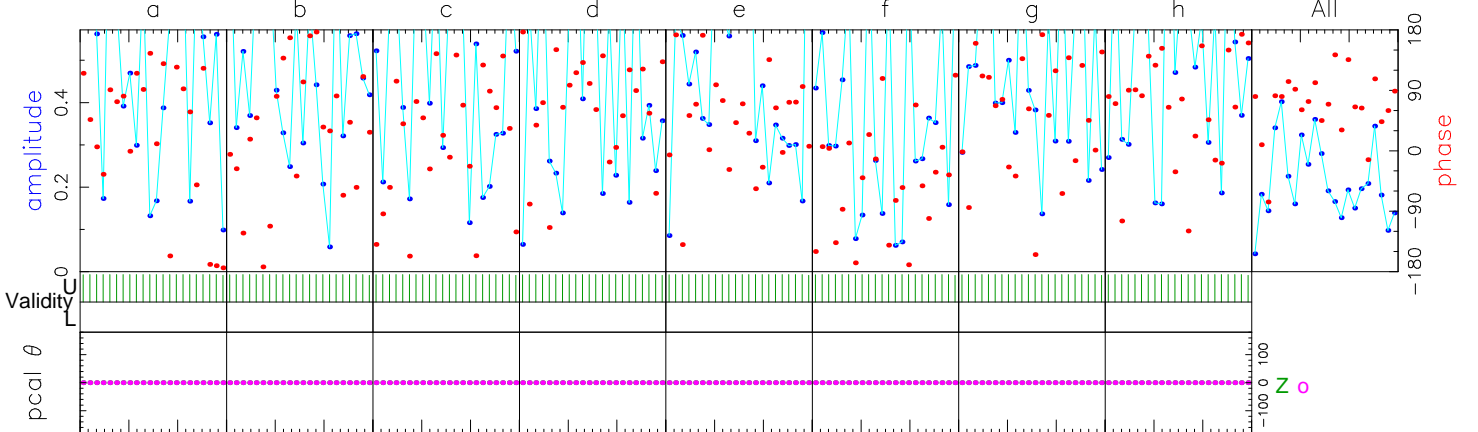
RA & Dec (J2000)

20h15m28.729786s

+37°10'59.514736"



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



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

Group delay (usec) (SBD)	-1.72917506052E+02	Apriori delay (usec)	-1.73151441492E+02	Resid mbdelay (usec)	-4.39560E-04	+/-	1.8E-04
Sband delay (usec)	-1.72923546742E+02	Apriori clock (usec)	-2.4954468E+01	Resid sbdelay (usec)	2.27895E-01	+/-	1.4E-03
Phase delay (usec)	-1.73151436693E+02	Apriori clockrate (us/s)	1.2858790E-07	Resid phdelay (usec)	4.79958E-06	+/-	1.2E-06
Delay rate (us/s)	-1.49809339237E+00	Apriori rate (us/s)	-1.49810556468E+00	Resid rate (us/s)	1.21723E-05	+/-	1.1E-08
Total phase (deg)	165.1	Apriori accel (us/s/s)	1.87612721011E-05	Resid phase (deg)	232.0	+/-	18.5

ph/seg (deg) 48.0 43.4 Search (1024X32) 0.163 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 60.1 75.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 46.9 26.2 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 49.4 45.7 Inc. frq. avg. 0.194 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023

Z: az 280.0 el 38.3 pa 37.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5407.324 1455.832 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

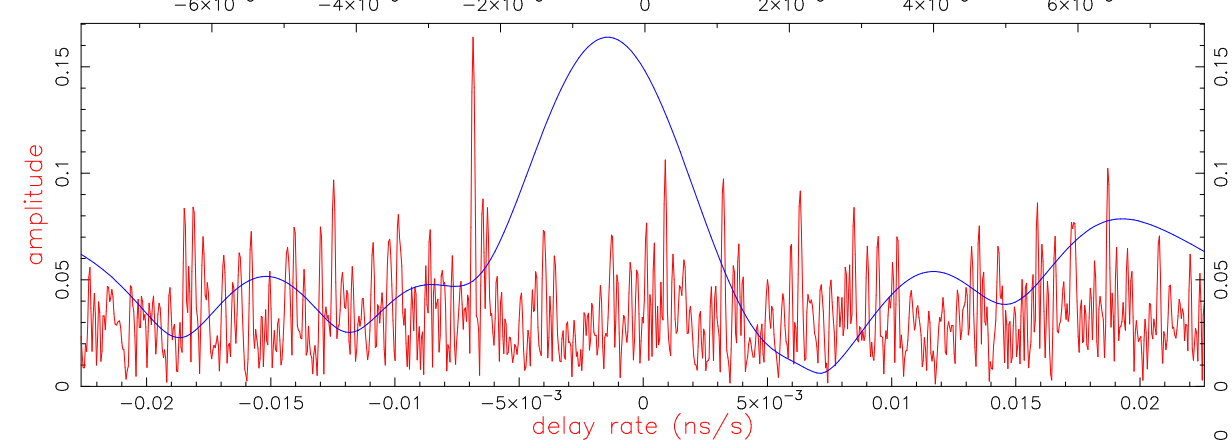
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Zo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Zo.Q.308.3MP56K simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

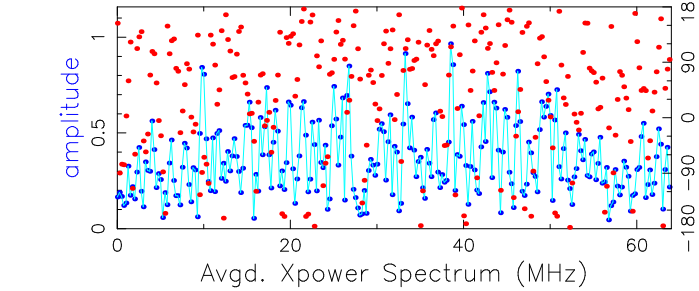
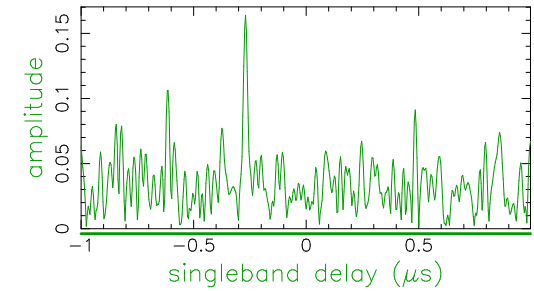
2013+370.3MP56K, No0500, Zo

MEṬSAHOV - VLBA_OV, fgroup Q, pol RL



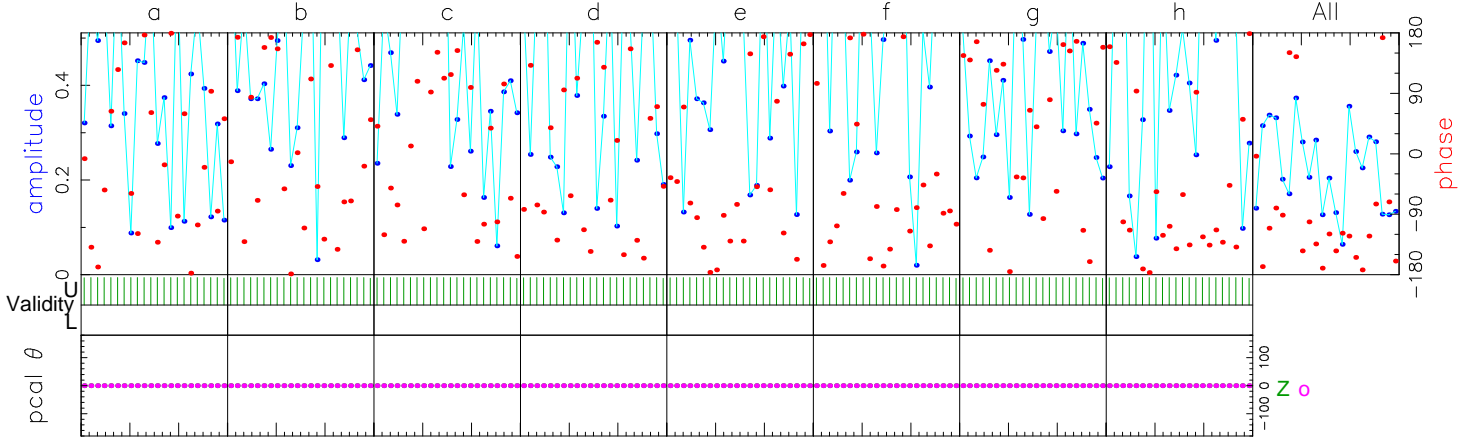
Fringe quality 0

SNR 6.0
 Int time 179.947
 Amp 0.170
 Phase -335.6
 PFD 2.1e-01
 Delays (us)
 SBD -0.269825
 MBD -0.000527
 Fringe rate (Hz)
 -0.296754
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2024:332:222845
 2025:042:151838
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
	-125.0	-140.2	162.0	-115.8	-128.8	-121.3	170.7	-132.0	Phase	-133.1
	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.3	Ampl.	0.2
	443.3	496.7	317.7	460.1	376.0	188.9	449.3	188.7	Sbd box	187.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
o	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	-1.73417593946E+02	Apriori delay (usec)	-1.73151441492E+02	Resid mbdelay (usec)	-5.27453E-04	+/-	1.8E-04
Sband delay (usec)	-1.73421266742E+02	Apriori clock (usec)	-2.4954468E+01	Resid sbdelay (usec)	-2.69825E-01	+/-	1.4E-03
Phase delay (usec)	-1.73151450063E+02	Apriori clockrate (us/s)	1.2858790E-07	Resid phdelay (usec)	-8.57035E-06	+/-	1.2E-06
Delay rate (us/s)	-1.49811244354E+00	Apriori rate (us/s)	-1.49810556468E+00	Resid rate (us/s)	-6.87886E-06	+/-	1.2E-08
Total phase (deg)	-42.6	Apriori accel (us/s/s)	1.87612721011E-05	Resid phase (deg)	-335.6	+/-	19.1

ph/seg (deg)	48.5	Theor.	44.7	Amplitude	0.170 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.6		78.0	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	36.4		26.9	Inc. seg. avg.	0.180	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.023	0.023
amp/frq (%)	60.0		47.0	Inc. frq. avg.	0.165	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 280.0 el 38.3 pa 37.9 o: az 68.4 el 38.3 pa -68.5 u,v (fr/asec) 5407.324 1455.832 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0500/Zo..3MP56K Output file: /Exps/c241d/v1/7mm/1234/No0500/Zo.Q.333.3MP56K