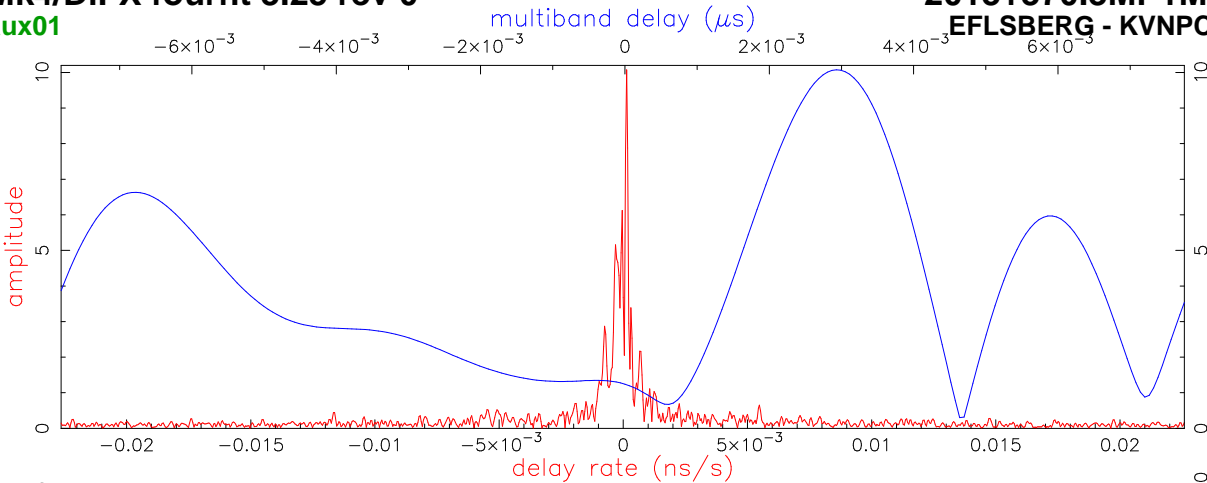


Mk4/DiFX fourfit 3.25 rev 0

aux01

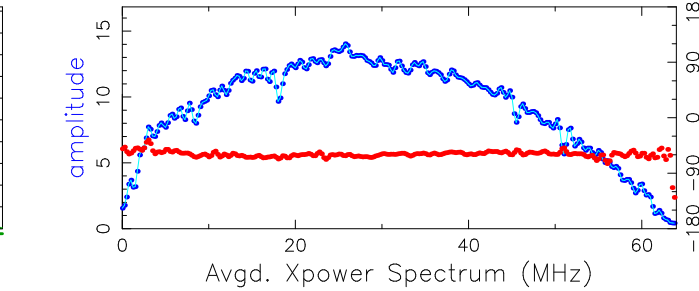
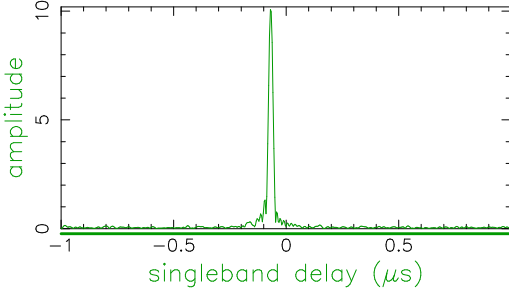
2013+370.3MP1MR, No0413, BL

EFLSBERG - KVNPC, fgroup Q, pol LR



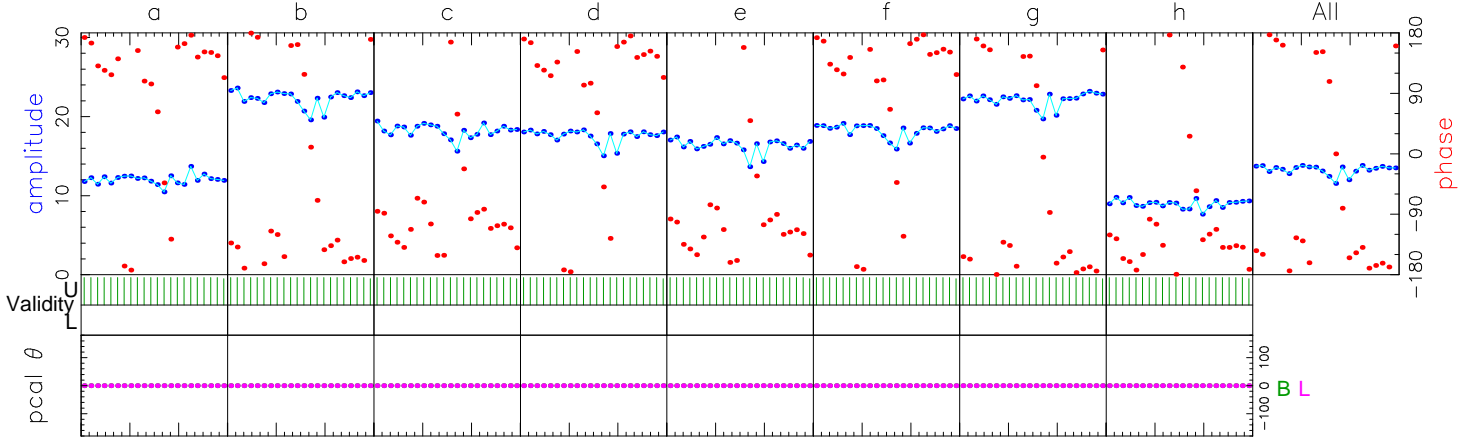
Fringe quality 2

SNR 374.0
Int time 179.827
Amp 10.199
Phase -98.7
PFD 0.0e+00
Delays (us)
SBD -0.068673
MBD 0.002948
Fringe rate (Hz)
0.005311
Ion TEC 0.000
Ref freq (MHz)
43140.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:113
Start 002000.00
Stop 002300.22
FRT 002130.00
Corr/FF/build
2024:318:034634
2025:042:145747
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		
L	0	24000	0	0	32000	0	0	40000		
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD)	-6.53809364178E+03	Apriori delay (usec)	-6.53801846493E+03	Resid mbdelay (usec)	2.94815E-03	+/-	2.9E-06
Sband delay (usec)	-6.53808713818E+03	Apriori clock (usec)	-7.7180595E+00	Resid sbdelay (usec)	-6.86733E-02	+/-	2.3E-05
Phase delay (usec)	-6.53801847563E+03	Apriori clockrate (us/s)	7.1256178E-06	Resid phdelay (usec)	-1.07025E-05	+/-	2.0E-08
Delay rate (us/s)	1.41168208164E+00	Apriori rate (us/s)	1.41168195853E+00	Resid rate (us/s)	1.23117E-07	+/-	1.9E-10
Total phase (deg)	-306.5	Apriori accel (us/s/s)	4.58436555445E-05	Resid phase (deg)	-98.7	+/-	0.3

ph/seg (deg)	49.6	0.7	Search (1024X32)	9.949	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	30.7	1.3	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)	46.0	0.4	Inc. seg. avg.	13.273	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
amp/frq (%)	41.5	0.8	Inc. frq. avg.	12.887	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 69.4 el 32.7 pa -48.5 L: az 281.9 el 58.5 pa 76.9 u,v (fr/asec) -5066.646 1979.005 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/BL...3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/BL.Q.10.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

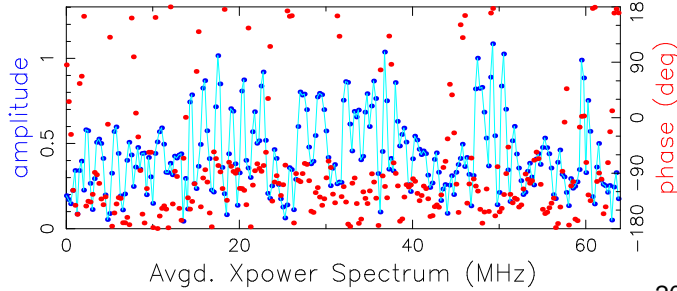
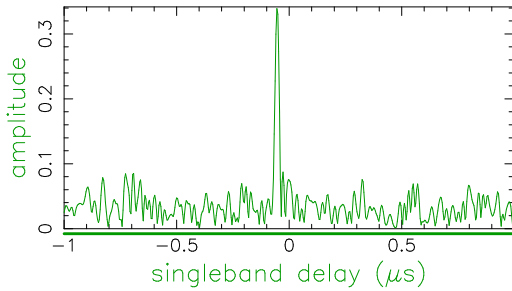
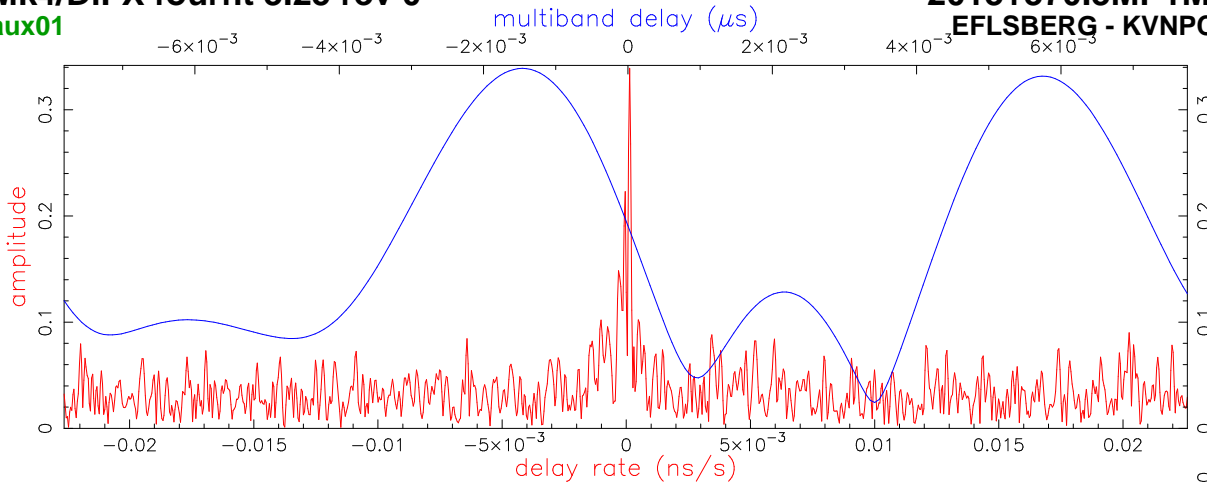
aux01

2013+370.3MP1MR, No0413, BL

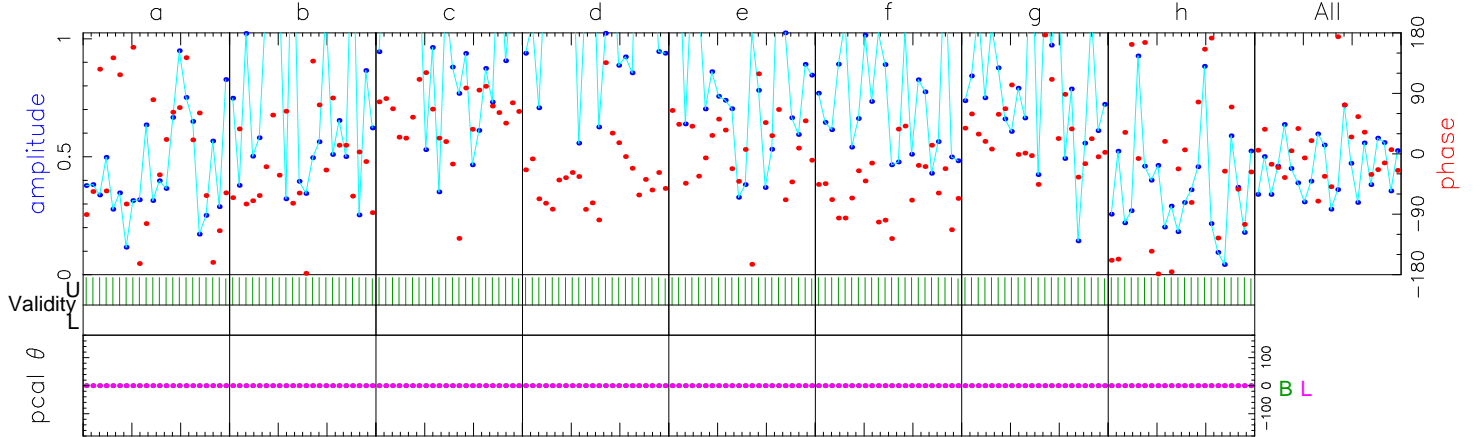
EFLSBERG - KVNPC, fgroup Q, pol RL

Fringe quality 9

SNR 12.5
 Int time 179.827
 Amp 0.342
 Phase -249.4
 PFD 1.3e-27
 Delays (us)
 SBD -0.053386
 MBD -0.001458
 Fringe rate (Hz) 0.005093
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build 2024:318:034634
 2025:042:145748
 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
	15.1	-31.2	62.8	-42.5	21.1	-50.6	30.0	-173.7	Phase	-1.9
	0.0	0.4	0.8	0.9	0.5	0.5	0.6	0.0	Ampl.	0.5
	102.8	243.4	243.5	243.1	243.0	243.5	242.6	238.4	Sbd box	243.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-6.53806679834E+03		Apriori delay (usec)		-6.53801846493E+03		Resid mbdelay (usec)		-1.45841E-03	+/- 8.7E-05
Sband delay (usec)	-6.53807185093E+03		Apriori clock (usec)		-7.7180595E+00		Resid sbdelay (usec)		-5.33860E-02	+/- 6.9E-04
Phase delay (usec)	-6.53801846505E+03		Apriori clockrate (us/s)		7.1256178E-06		Resid phdelay (usec)		-1.24638E-07	+/- 5.9E-07
Delay rate (us/s)	1.41168207659E+00		Apriori rate (us/s)		1.41168195853E+00		Resid rate (us/s)		1.18061E-07	+/- 5.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.58436555445E-05		Resid phase (deg)		-249.4	+/- 9.1
RMS	50.9	21.4	Amplitude		0.342 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5	
ph/seg (deg)	48.5	37.4	Search (1024X32)		0.330		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
amp/seg (%)	82.1	12.9	Interp.		0.000		Bits/sample: 2x2		mb window (us)	-0.008 0.008
ph/frq (deg)	94.0	22.6	Inc. seg. avg.		0.427		SampCntNorm: enabled		dr window (ns/s)	-0.023 0.023
amp/frq (%)			Inc. frq. avg.		0.464		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
B: az 69.4 el 32.7 pa -48.5	L: az 281.9 el 58.5 pa 76.9		u, v (fr/asec)		-5066.646 1979.005				simultaneous interpolator	
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0413/BL...3MP1MR		Output file: /Exps/c241d/v1/7mm/1234/No0413/BL.Q.17.3MP1MR							

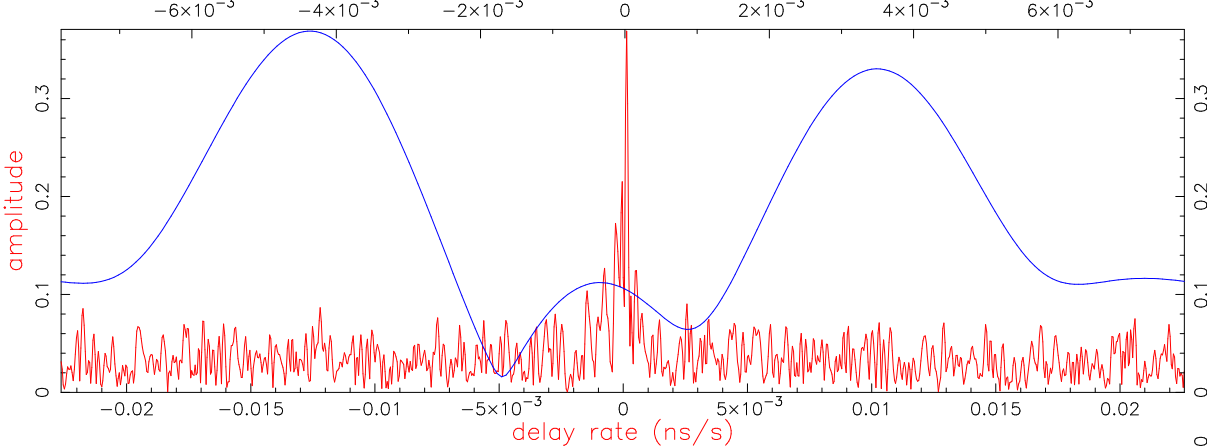
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1MR, No0413, BL

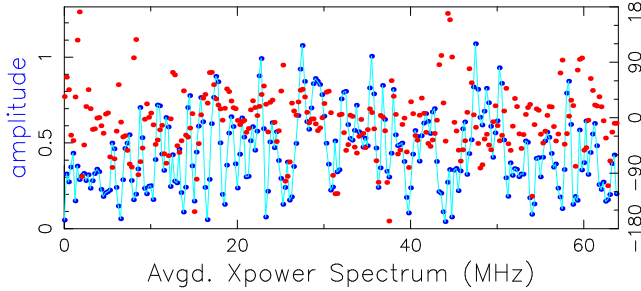
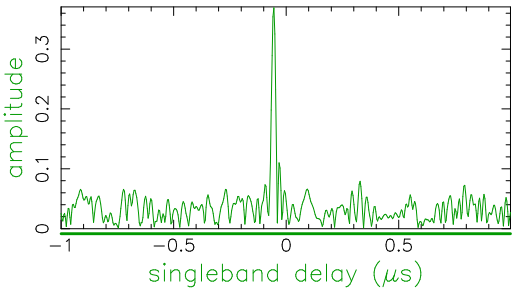
EFLSBERG - KVNPC, fgroup Q, pol LL

multiband delay (μ s)



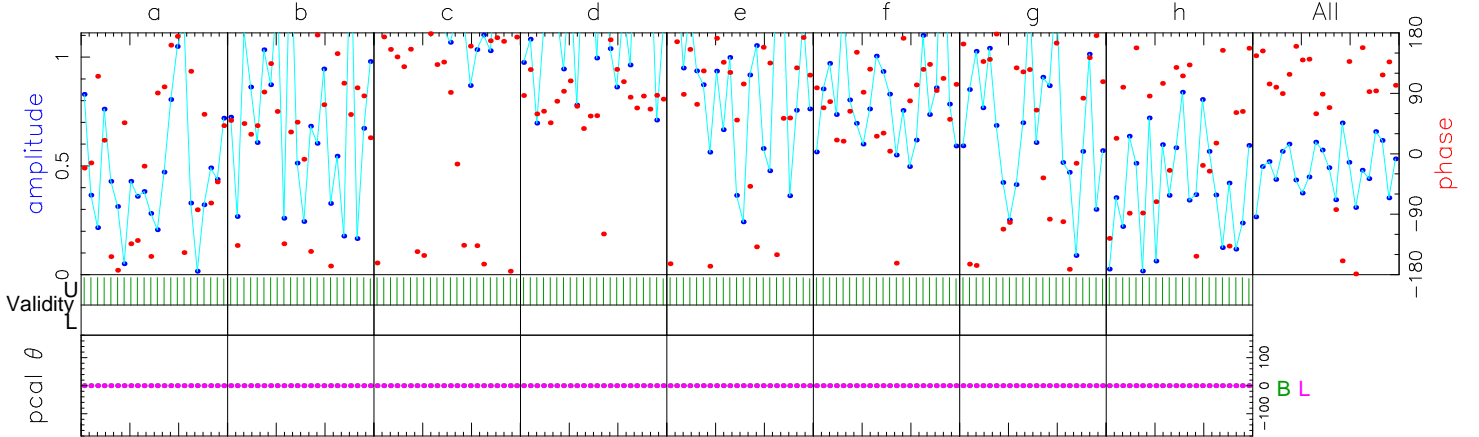
Fringe quality 9

SNR 13.6
 Int time 179.827
 Amp 0.371
 Phase -126.9
 PFD 1.3e-33
 Delays (us)
 SBD -0.055619
 MBD -0.004343
 Fringe rate (Hz)
 0.005155
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145743
 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		
L	0	24000	0	0	32000	0	0	40000		
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	-6.53806968268E+03	Apriori delay (usec)	-6.53801846493E+03	Resid mbdelay (usec)	-4.34275E-03	+/-	8.0E-05
Sband delay (usec)	-6.53807408368E+03	Apriori clock (usec)	-7.7180595E+00	Resid sbdelay (usec)	-5.56188E-02	+/-	6.3E-04
Phase delay (usec)	-6.53801845716E+03	Apriori clockrate (us/s)	7.1256178E-06	Resid phdelay (usec)	7.76817E-06	+/-	5.4E-07
Delay rate (us/s)	1.41168207803E+00	Apriori rate (us/s)	1.41168195853E+00	Resid rate (us/s)	1.19501E-07	+/-	5.2E-09
Total phase (deg)	-334.6	Apriori accel (us/s/s)	4.58436555445E-05	Resid phase (deg)	-126.9	+/-	8.4

ph/seg (deg)	48.4	Theor.	19.8	Amplitude	0.371 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	44.1		34.5	Search (1024X32)	0.362	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	52.7		11.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	93.5		20.8	Inc. seg. avg.	0.462	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
				Inc. frq. avg.	0.492	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 69.4 el 32.7 pa -48.5 L: az 281.9 el 58.5 pa 76.9 u,v (fr/asec) -5066.646 1979.005 simultaneous interpolator

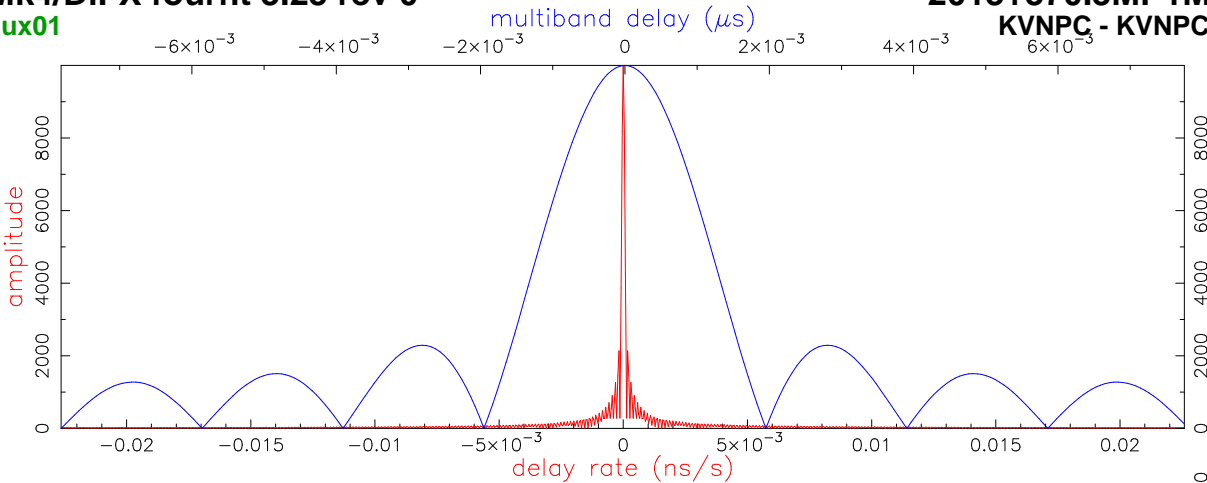
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/BL...3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/BL.Q.2.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

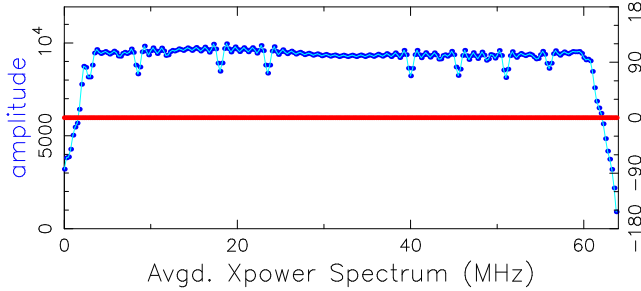
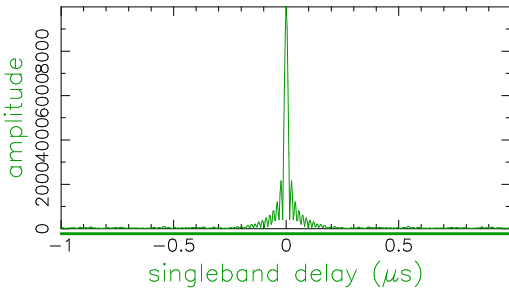
2013+370.3MP1MR, No0413, LL

KVNPC - KVNPC, fgroup Q, pol RR



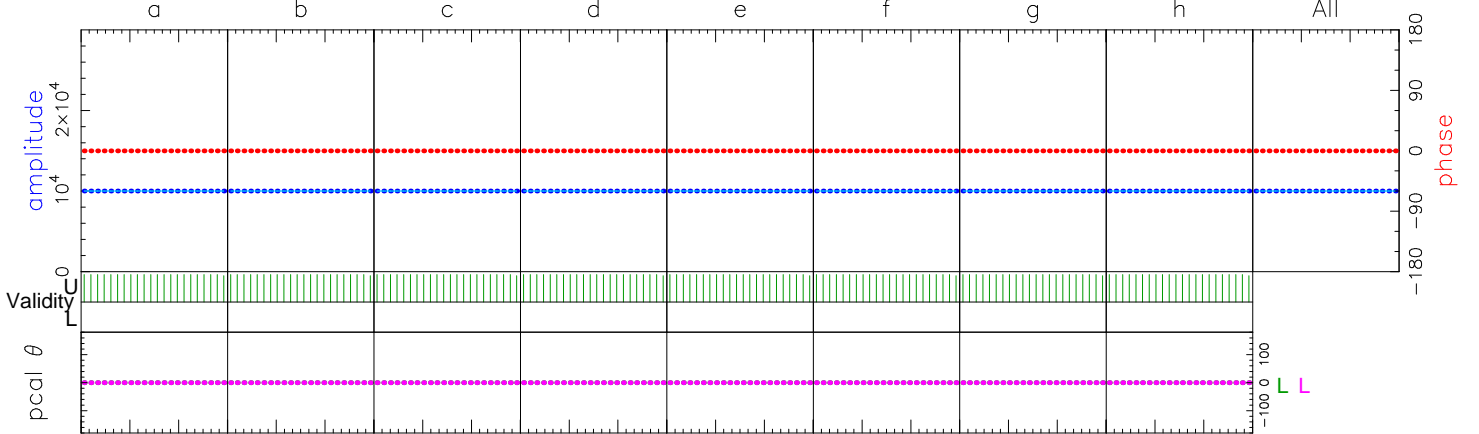
Fringe quality 9

SNR 366740.6
 Int time 179.855
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145748
 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	Ampl.	10000.0
L	0	24000	0	0	32000	0	0	40000	Sbd box	257.0
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
L	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	PC amp	
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
									Tracks	
									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	RMS	Theor.	Amplitude	9999.999 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	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	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	
				Inc. frq. avg.	9999.999	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

L: az 281.9 el 58.5 pa 76.9 L: az 281.9 el 58.5 pa 76.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

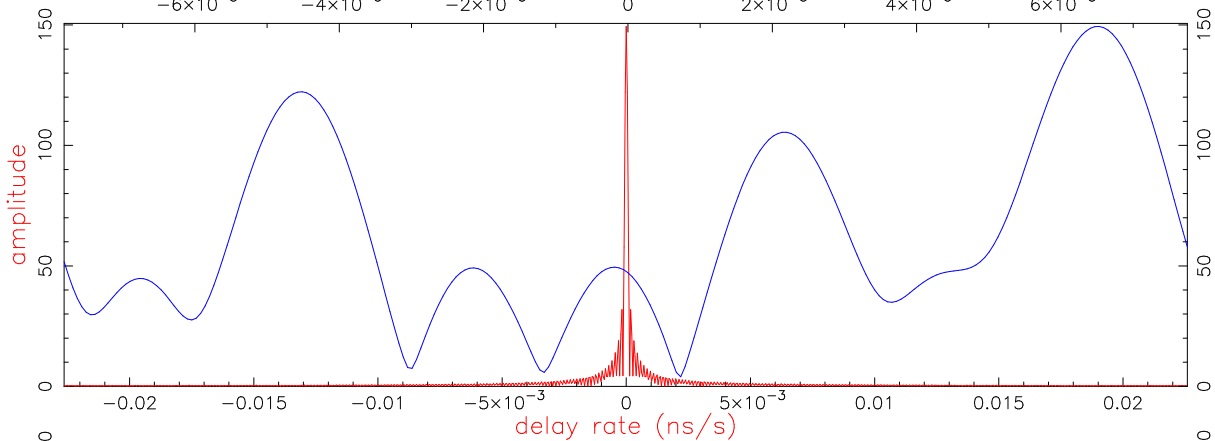
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LL..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LL.Q.15.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

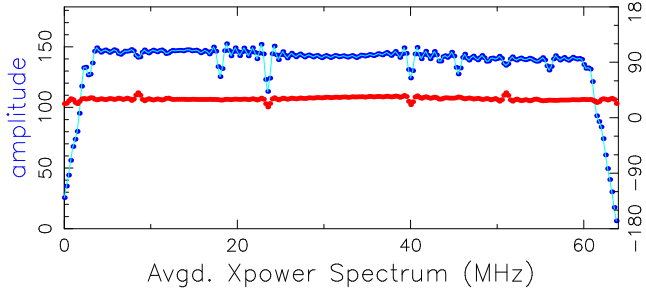
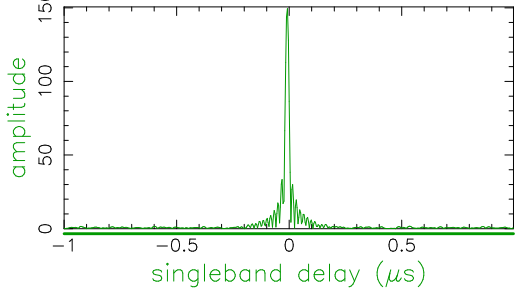
2013+370.3MP1MR, No0413, LL

KVNPC - KVNPC, fgroup Q, pol LR



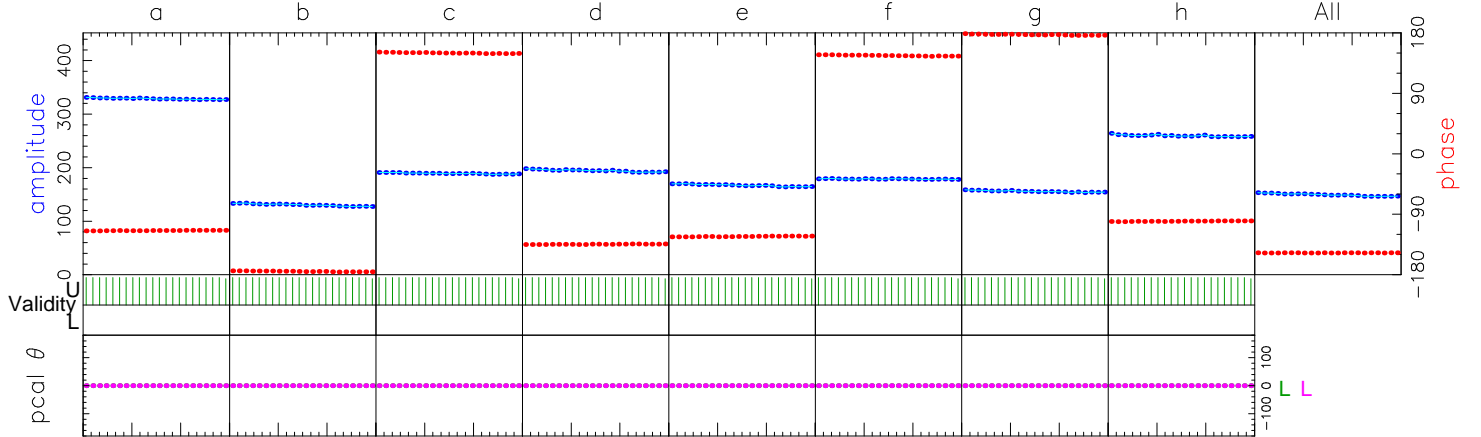
Fringe quality 5

SNR 5524.9
 Int time 179.855
 Amp 150.649
 Phase -349.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.008978
 MBD 0.006516
 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 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145750
 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
	-114.2	-175.0	150.0	-134.7	-123.0	146.2	177.2	-100.3	Phase	-147.4
	328.8	130.5	189.3	194.4	167.1	178.8	155.8	259.7	Ampl.	200.6
	254.7	253.3	255.3	255.3	254.1	254.3	255.7	254.9	Sbd box	254.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
L									Tracks	

Group delay (usec) (SBD) -9.109468750000E-03 Apriori delay (usec) 0.000000000000E+00 Resid mbdelay (usec) 6.51553E-03 +/- 2.0E-07
 Sband delay (usec) -8.977750000000E-03 Apriori clock (usec) 0.00000000E+00 Resid sbdelay (usec) -8.97775E-03 +/- 1.6E-06
 Phase delay (usec) -9.49292982501E-06 Apriori clockrate (us/s) 0.00000000E+00 Resid phdelay (usec) -9.49293E-06 +/- 1.3E-09
 Delay rate (us/s) -1.13185263516E-11 Apriori rate (us/s) 0.000000000000E+00 Resid rate (us/s) -1.13185E-11 +/- 1.3E-11
 Total phase (deg) -349.9 Apriori accel (us/s/s) 0.000000000000E+00 Resid phase (deg) -349.9 +/- 0.0

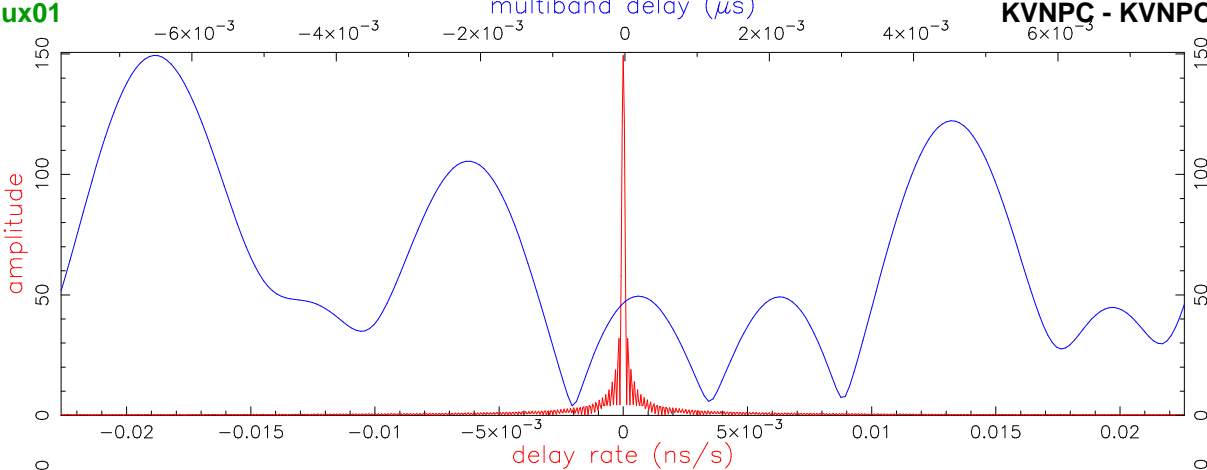
RMS Theor. Amplitude 150.649 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (1024X32) 147.488 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.7 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 49.0 0.0 Inc. seg. avg. 149.400 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 51.7 0.1 Inc. frq. avg. 200.551 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 L: az 281.9 el 58.5 pa 76.9 L: az 281.9 el 58.5 pa 76.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LL..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LL.Q.24.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

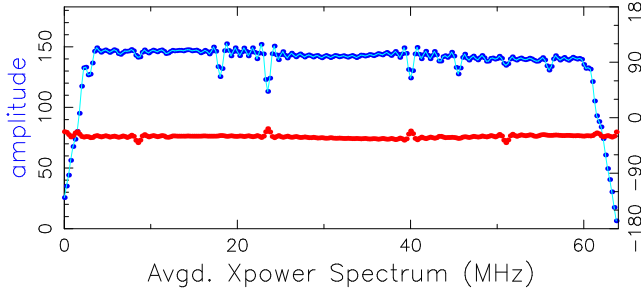
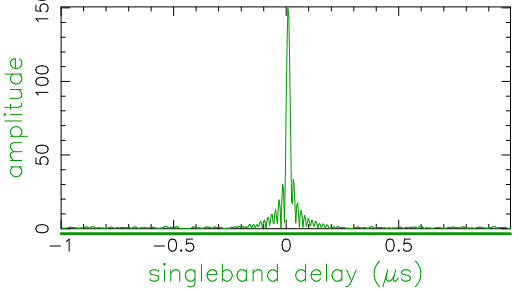
2013+370.3MP1MR, No0413, LL

KVNPC - KVNPC, fgroup Q, pol RL



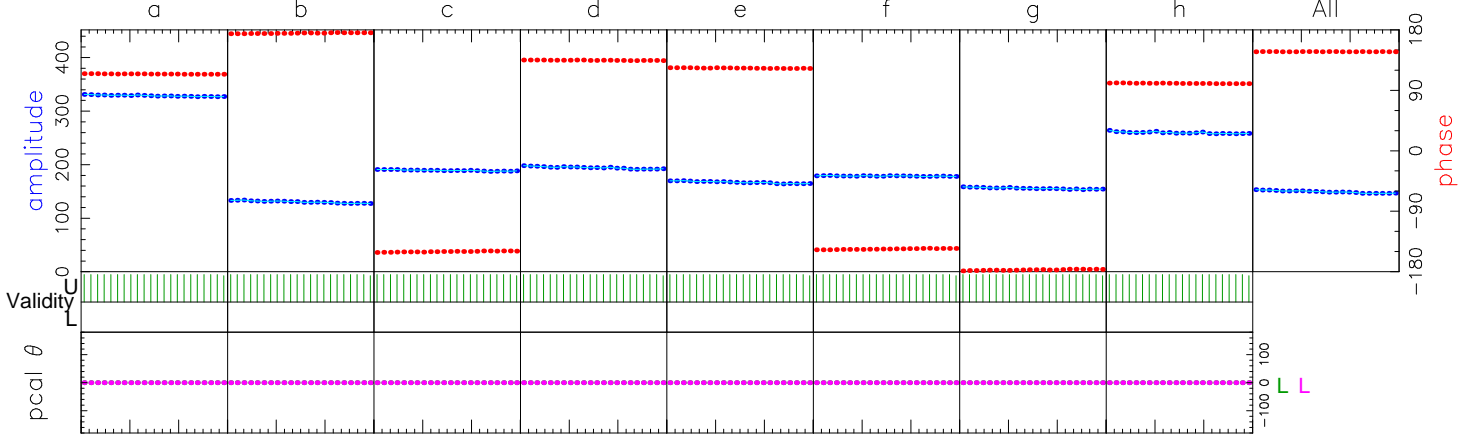
Fringe quality 5

SNR 5524.9
 Int time 179.855
 Amp 150.649
 Phase 349.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.008978
 MBD -0.006516
 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 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145752
 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	0	24000	0	0	32000	0	0	40000	PC freqs	
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	9.10946875000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.51553E-03	+/-	2.0E-07
Sband delay (usec)	8.97775000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	8.97775E-03	+/-	1.6E-06
Phase delay (usec)	9.49292982501E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.49293E-06	+/-	1.3E-09
Delay rate (us/s)	1.13185263516E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.13185E-11	+/-	1.3E-11
Total phase (deg)	349.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	349.9	+/-	0.0

ph/seg (deg)	0.1	RMS	Theor.	Amplitude	150.649 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	1.7	0.1	0.0	Search (1024X32)	147.488	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	49.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	51.7	0.1	0.0	Inc. seg. avg.	149.400	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
				Inc. frq. avg.	200.551	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

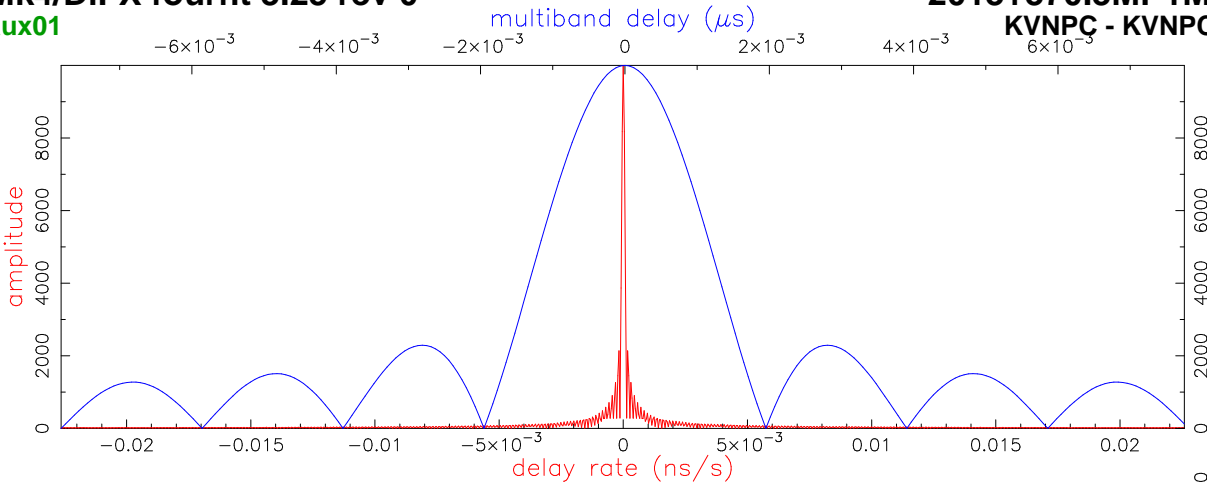
L: az 281.9 el 58.5 pa 76.9 L: az 281.9 el 58.5 pa 76.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LL..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LL.Q.30.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

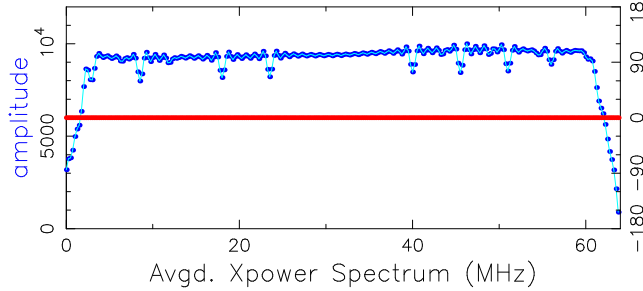
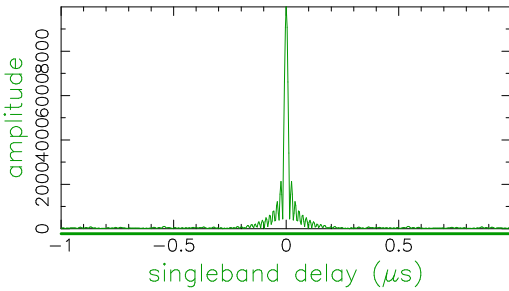
2013+370.3MP1MR, No0413, LL

KVNPC - KVNPC, fgroup Q, pol LL



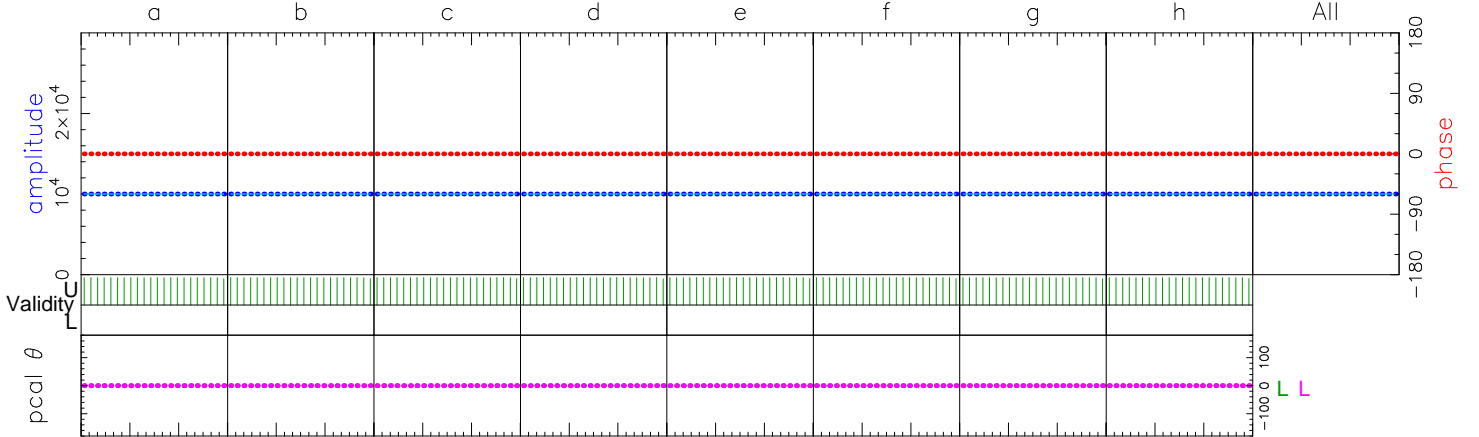
Fringe quality 9

SNR 366740.6
 Int time 179.855
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145746
 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	0	24000	0	0	32000	0	0	40000	Ampl.	10000.0
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
L:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	PC phase	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Mani PC	
L									PC amp	
L									Chan ids	
L									Tracks	
L									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 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 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
 L: az 281.9 el 58.5 pa 76.9 L: az 281.9 el 58.5 pa 76.9 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/No0413/LL..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LL.Q.9.3MP1MR simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

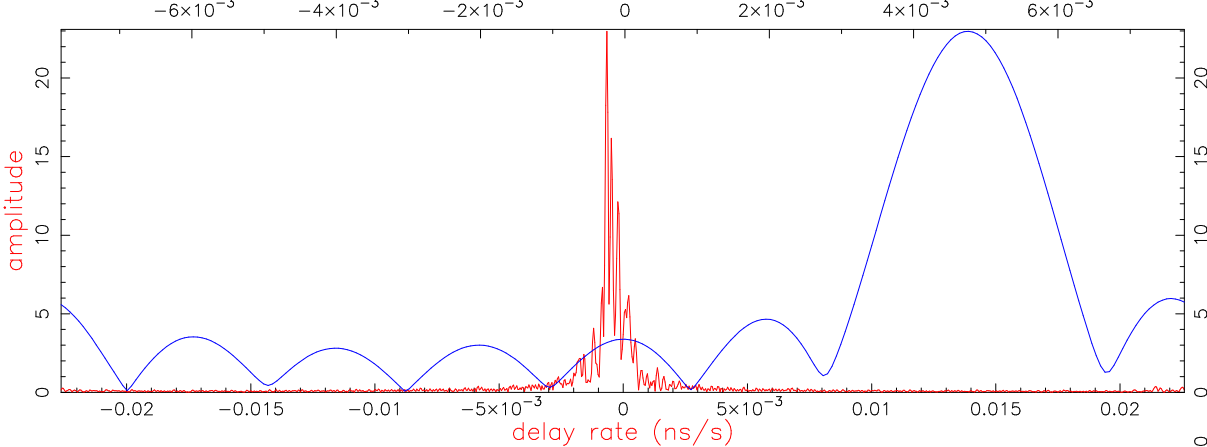
aux01

2013+370.3MP1MR, No0413, Lu

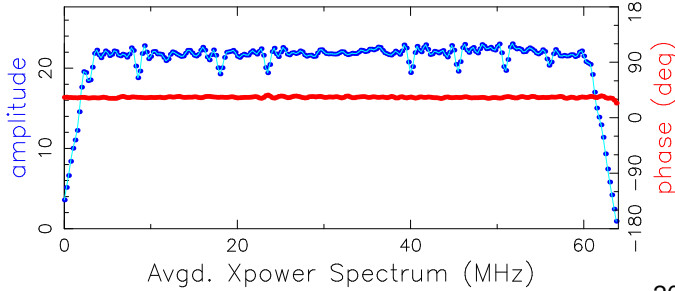
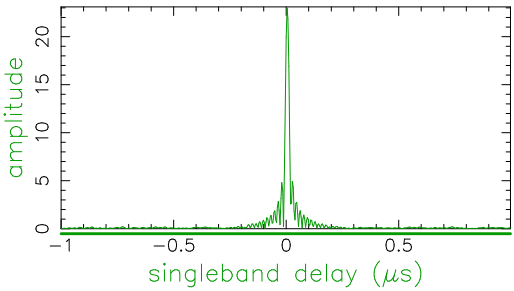
KVNPC - KVNUS, fgroup Q, pol LL

multiband delay (μ s)

Fringe quality 6

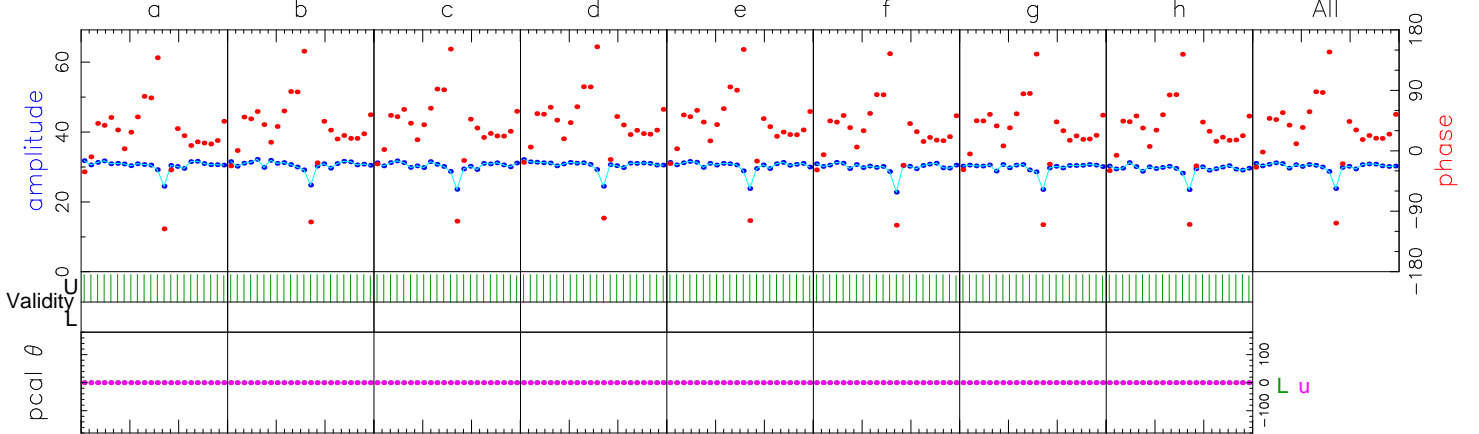


SNR 846.7
 Int time 179.839
 Amp 23.096
 Phase 33.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.004814
 MBD 0.004754
 Fringe rate (Hz)
 -0.028960
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145747
 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	0	24000	0	0	32000	0	0	40000	PC freqs	23.1
u	0	24000	0	0	32000	0	0	40000	PC freqs	258.2
L:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD) 1.89769614157E+02 Apriori delay (usec) 1.89764860550E+02 Resid mbdelay (usec) 4.75361E-03 +/- 1.3E-06
 Sband delay (usec) 1.89769674050E+02 Apriori clock (usec) -2.8957592E+01 Resid sbdelay (usec) 4.81350E-03 +/- 1.0E-05
 Phase delay (usec) 1.89764862730E+02 Apriori clockrate (us/s) -7.3949380E-02 Resid phdelay (usec) 2.17971E-06 +/- 8.7E-09
 Delay rate (us/s) 2.70592288866E-02 Apriori rate (us/s) 2.70599001969E-02 Resid rate (us/s) -6.71310E-07 +/- 8.4E-11
 Total phase (deg) 64.1 Apriori accel (us/s/s) 7.42292389415E-07 Resid phase (deg) 33.9 +/- 0.1

RMS Theor. Amplitude 23.096 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 47.5 0.3 Search (1024X32) 22.590 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 30.8 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 5.6 0.2 Inc. seg. avg. 30.066 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 1.2 0.3 Inc. frq. avg. 23.063 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

L: az 281.9 el 58.5 pa 76.9 u: az 285.3 el 57.4 pa 80.3 u,v (fr/asec) -96.984 121.367 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/Lu..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Lu.Q.12.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

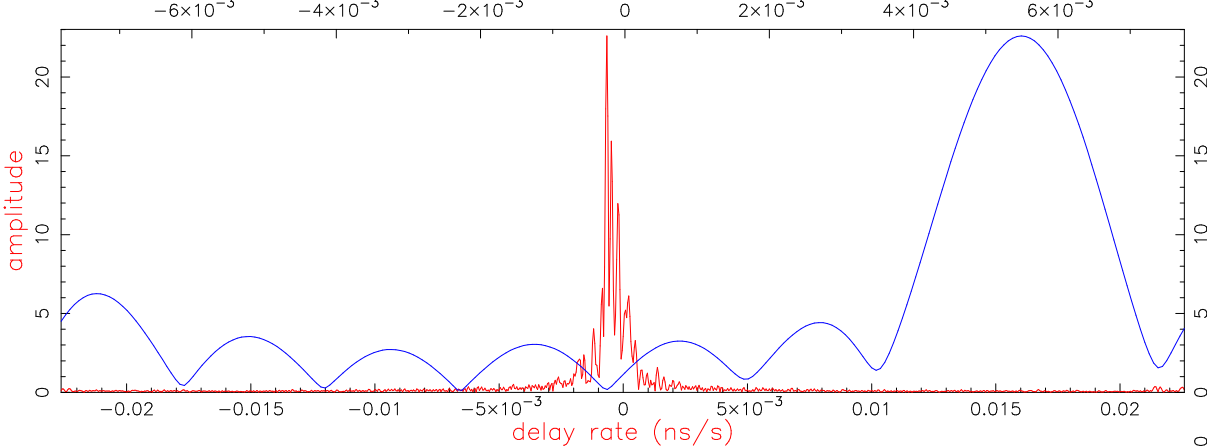
aux01

2013+370.3MP1MR, No0413, Lu

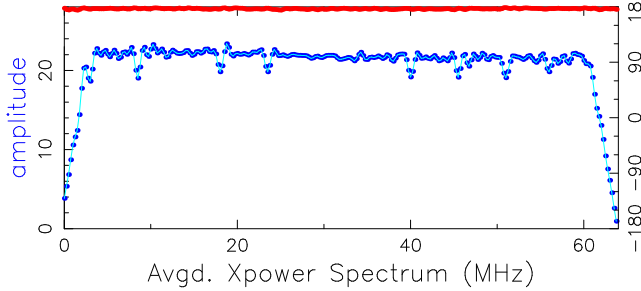
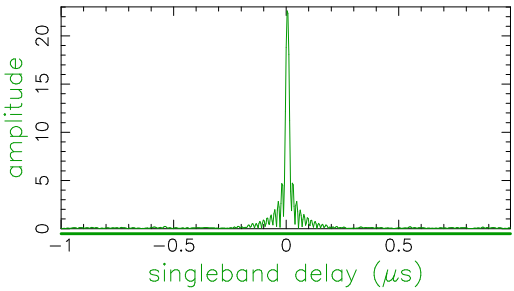
KVNPC - KVNUS, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 6

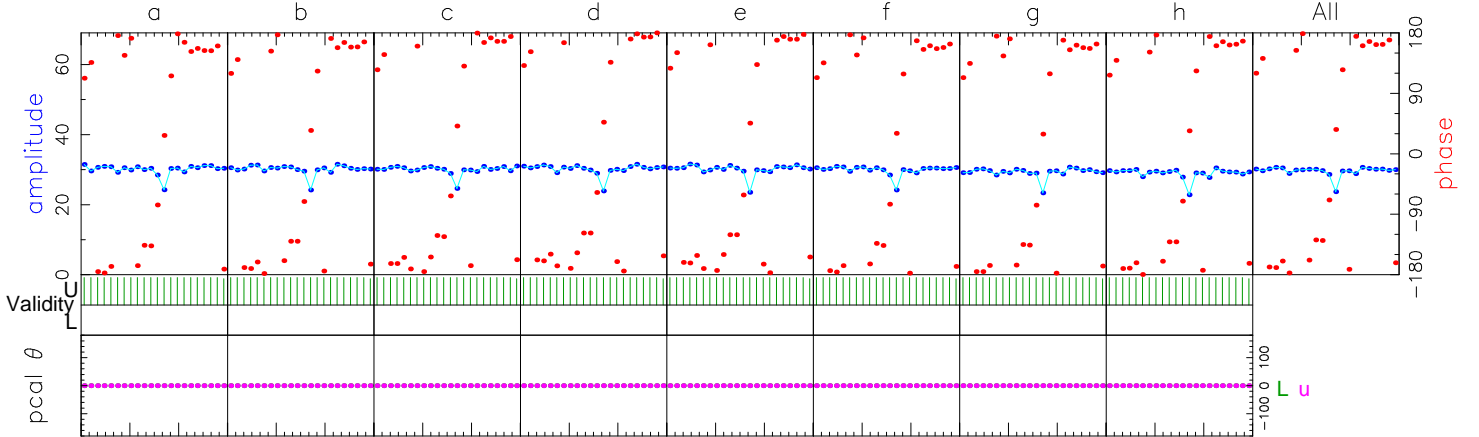


SNR 843.7
 Int time 179.839
 Amp 23.016
 Phase 177.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.005615
 MBD 0.005498
 Fringe rate (Hz)
 -0.028969
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145749
 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	0	24000	0	0	32000	0	0	40000	PC freqs	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
L:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD) 1.89770358876E+02 Apriori delay (usec) 1.89764860550E+02 Resid mbdelay (usec) 5.49833E-03 +/- 1.3E-06
 Sband delay (usec) 1.89770475050E+02 Apriori clock (usec) -2.8957592E+01 Resid sbdelay (usec) 5.61450E-03 +/- 1.0E-05
 Phase delay (usec) 1.89764872004E+02 Apriori clockrate (us/s) -7.3949380E-06 Resid phdelay (usec) 1.14537E-05 +/- 8.7E-09
 Delay rate (us/s) 2.70592286914E-02 Apriori rate (us/s) 2.70599001969E-02 Resid rate (us/s) -6.71506E-07 +/- 8.4E-11
 Total phase (deg) 208.2 Apriori accel (us/s/s) 7.42292389415E-07 Resid phase (deg) 177.9 +/- 0.1

RMS Theor. Amplitude 23.016 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 47.5 0.3 Search (1024X32) 21.957 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 29.3 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 7.8 0.2 Inc. seg. avg. 29.620 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 1.7 0.3 Inc. frq. avg. 22.763 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

L: az 281.9 el 58.5 pa 76.9 u: az 285.3 el 57.4 pa 80.3 u,v (fr/asec) -96.984 121.367 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/Lu..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Lu.Q.22.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

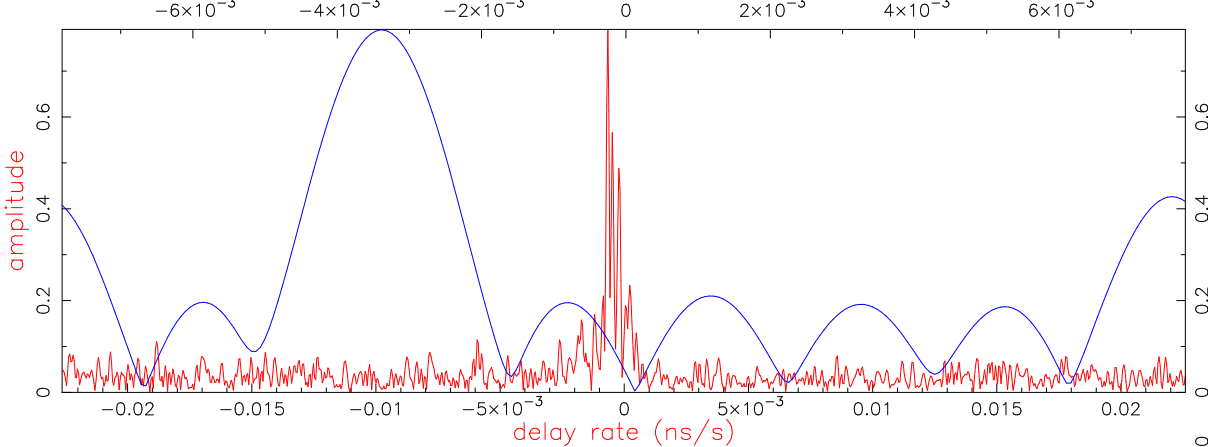
aux01

2013+370.3MP1MR, No0413, Lu

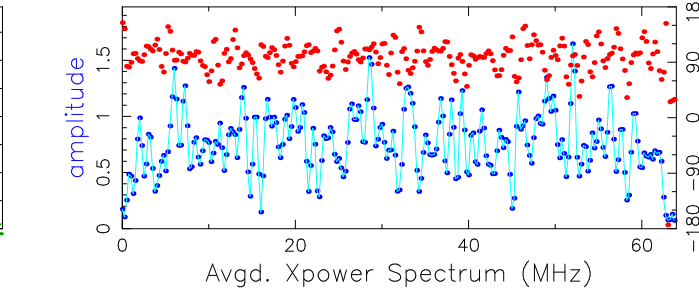
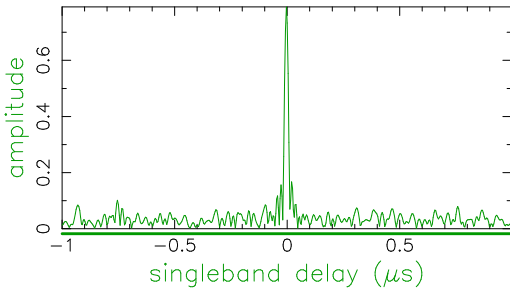
KVNPC - KVNUS, fgroup Q, pol LR

multiband delay (μ s)

Fringe quality 6

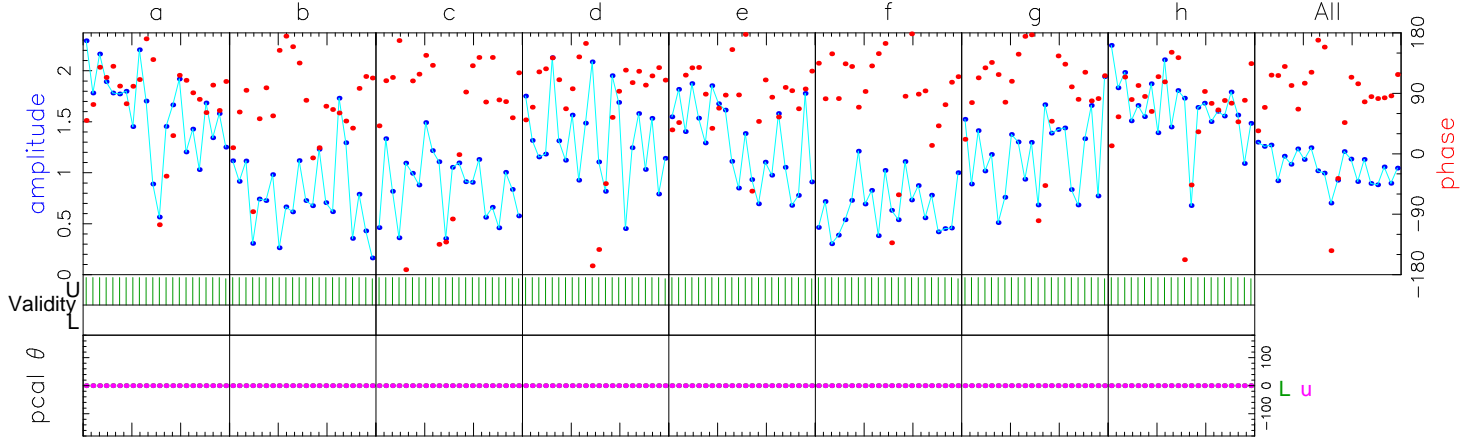


SNR 29.0
 Int time 179.839
 Amp 0.791
 Phase 97.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.003517
 MBD -0.003386
 Fringe rate (Hz)
 -0.029024
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145751
 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	0	24000	0	0	32000	0	0	40000	PC freqs	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
L:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD) 1.89761474470E+02 Apriori delay (usec) 1.89764860550E+02 Resid mbdelay (usec) -3.38608E-03 +/- 3.7E-05
 Sband delay (usec) 1.89761343300E+02 Apriori clock (usec) -2.8957592E+01 Resid sbdelay (usec) -3.51725E-03 +/- 3.0E-04
 Phase delay (usec) 1.89764866838E+02 Apriori clockrate (us/s) -7.3949380E-06 Resid phdelay (usec) 6.28792E-06 +/- 2.5E-07
 Delay rate (us/s) 2.70592274152E-02 Apriori rate (us/s) 2.70599001969E-02 Resid rate (us/s) -6.72782E-07 +/- 2.4E-09
 Total phase (deg) 127.9 Apriori accel (us/s/s) 7.42292389415E-07 Resid phase (deg) 97.7 +/- 4.0

ph/seg (deg) 49.4 9.3 Amplitude 0.791 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 39.9 16.2 Search (1024X32) 0.774 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.0 5.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.7 9.8 Inc. seg. avg. 1.051 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Inc. frq. avg. 0.813 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

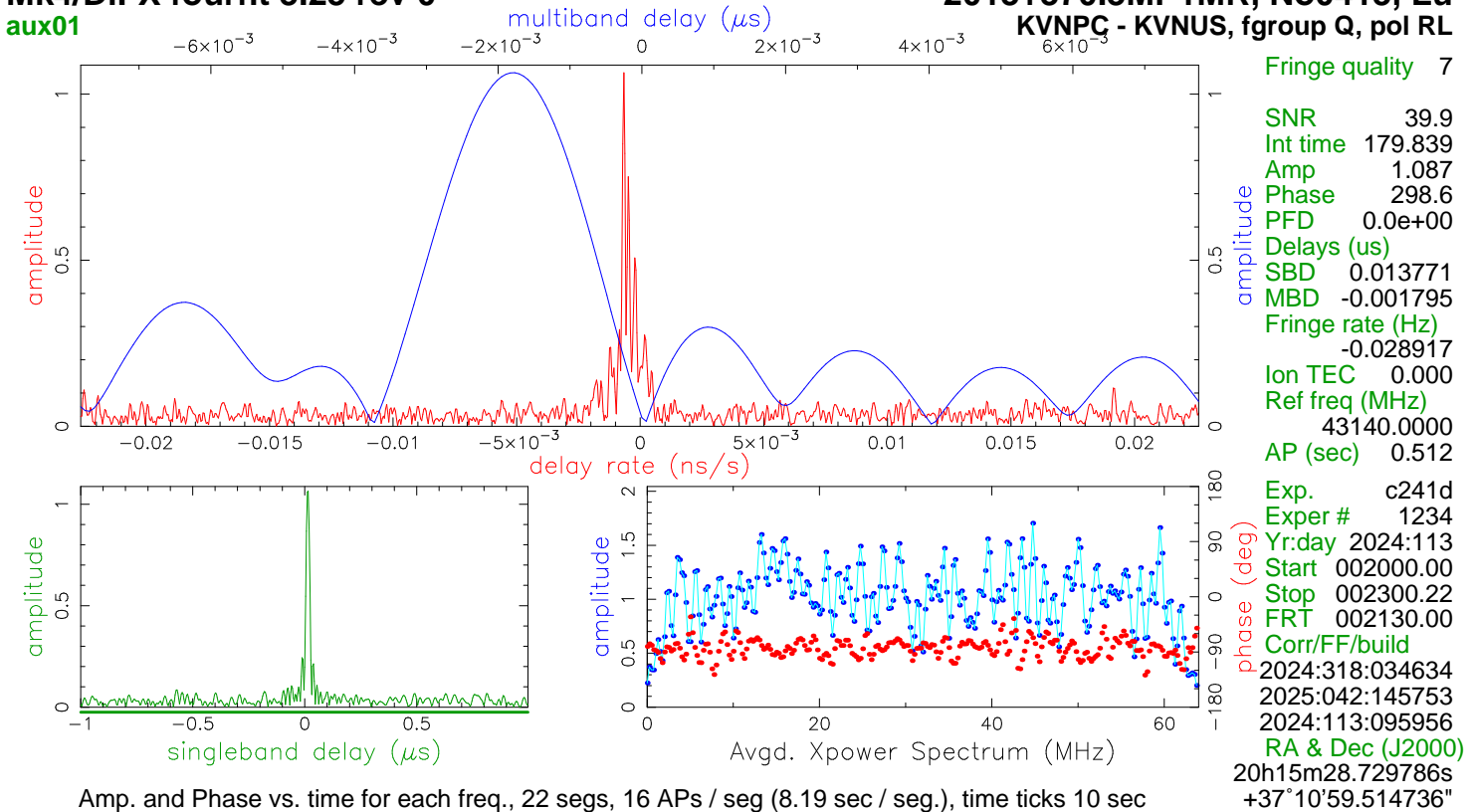
L: az 281.9 el 58.5 pa 76.9 u: az 285.3 el 57.4 pa 80.3 u,v (fr/asec) -96.984 121.367 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/Lu..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Lu.Q.29.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1MR, No0413, Lu

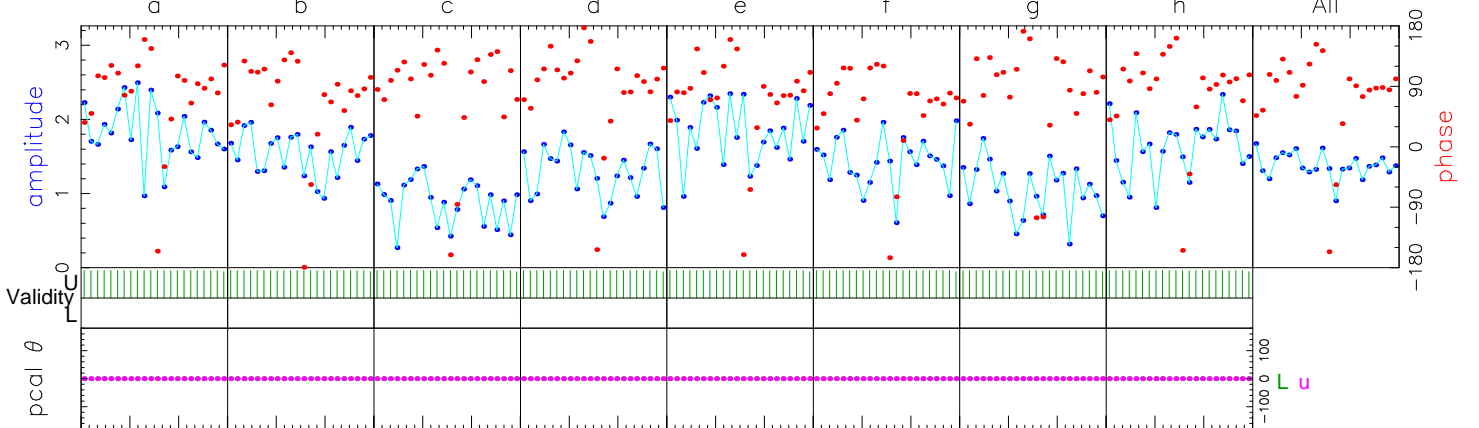
KVNPC - KVNUS, fgroup Q, pol RL



Fringe quality 7

SNR 39.9
 Int time 179.839
 Amp 1.087
 Phase 298.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.013771
 MBD -0.001795
 Fringe rate (Hz)
 -0.028917
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512

Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145753
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



	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	0	24000	0	0	32000	0	0	40000		
u	0	24000	0	0	32000	0	0	40000		
L:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
L:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
Group delay (usec) (SBD)	1.89778690220E+02									
Sband delay (usec)	1.89778631300E+02									
Phase delay (usec)	1.89764866736E+02									
Delay rate (us/s)	2.70592298911E-02									
Total phase (deg)			328.9							
Apriori delay (usec)					1.89764860550E+02					
Apriori clock (usec)					-2.8957592E+01					
Apriori clockrate (us/s)					-7.3949380E-06					
Apriori rate (us/s)					2.70599001969E-02					
Apriori accel (us/s/s)					7.42292389415E-07					
Resid mbdelay (usec)									-1.79533E-03	+/- 2.7E-05
Resid sbdelay (usec)									1.37707E-02	+/- 2.2E-04
Resid phdelay (usec)									6.18559E-06	+/- 1.9E-07
Resid rate (us/s)									-6.70306E-07	+/- 1.8E-09
Resid phase (deg)									298.6	+/- 2.9
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.023		0.023			
Data rate (Mb/s):	2048		nlags: 256 t_cohere infinite		ion window (TEC)		0.00		0.00	
L: az	281.9 el 58.5 pa 76.9		u: az 285.3 el 57.4 pa 80.3		u, v (fr/asec) -96.984 121.367		simultaneous interpolator			
Control file:	cf_1234_gmva		Input file: /Exps/c241d/v1/7mm/1234/No0413/Lu..3MP1MR		Output file: /Exps/c241d/v1/7mm/1234/No0413/Lu.Q.35.3MP1MR					

Mk4/DiFX fourfit 3.25 rev 0

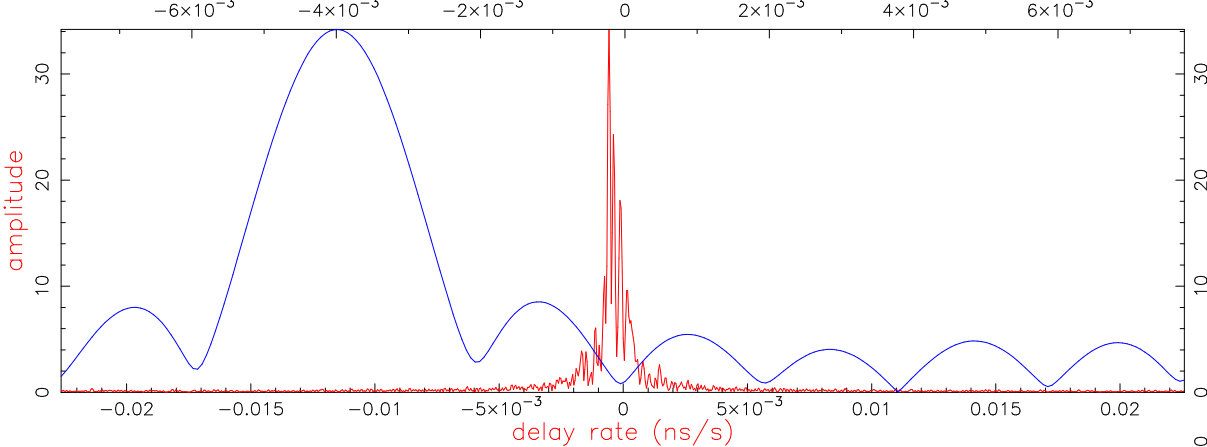
aux01

2013+370.3MP1MR, No0413, Ly

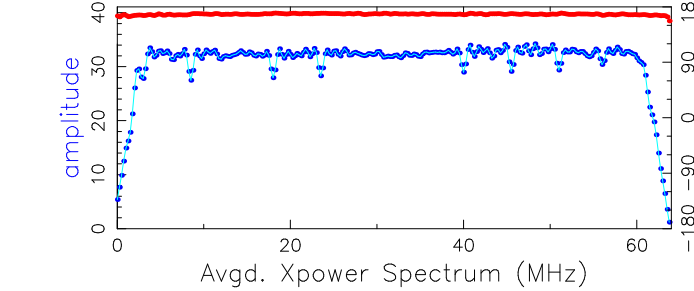
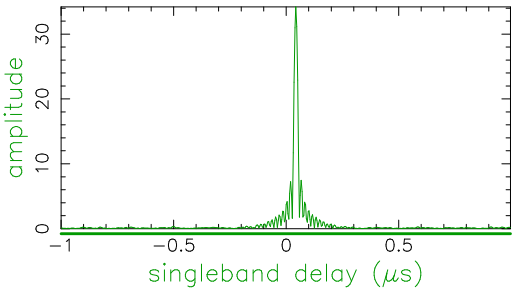
KVNPQ - KVNYS, fgroup Q, pol LL

multiband delay (μ s)

Fringe quality 6

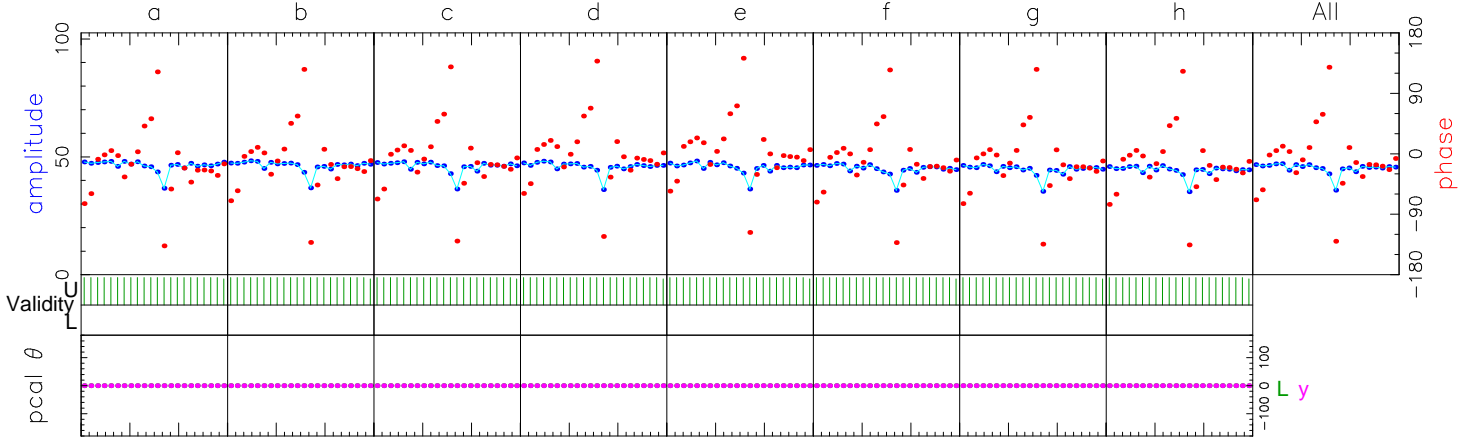


SNR 1254.0
 Int time 179.833
 Amp 34.203
 Phase 237.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.043035
 MBD -0.003989
 Fringe rate (Hz)
 -0.024249
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145748
 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
	-17.4	-12.5	-9.7	-1.4	2.6	-13.2	-14.3	-15.6	Phase	-10.2
	35.1	35.0	34.8	34.7	34.6	34.0	33.7	33.5	Ampl.	34.4
	268.1	268.0	268.1	268.0	267.9	267.9	267.9	268.3	Sbd box	268.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
y	0	24000	0	0	32000	0	0	40000	PC freqs	
L:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:y	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-2.59170566484E+02			Apriori delay (usec)	-2.59213452527E+02			Resid mbdelay (usec)	-3.98896E-03	+/- 8.7E-07
Sband delay (usec)	-2.59170417027E+02			Apriori clock (usec)	-3.4040604E+01			Resid sbdelay (usec)	4.30355E-02	+/- 6.9E-06
Phase delay (usec)	-2.59213453182E+02			Apriori clockrate (us/s)	-7.3743381E-06			Resid phdelay (usec)	-6.54433E-07	+/- 5.9E-09
Delay rate (us/s)	-2.02098897969E-02			Apriori rate (us/s)	-2.02093276991E-02			Resid rate (us/s)	-5.62098E-07	+/- 5.7E-11
Total phase (deg)		114.2		Apriori accel (us/s/s)	1.17015006368E-06			Resid phase (deg)	237.3	+/- 0.1

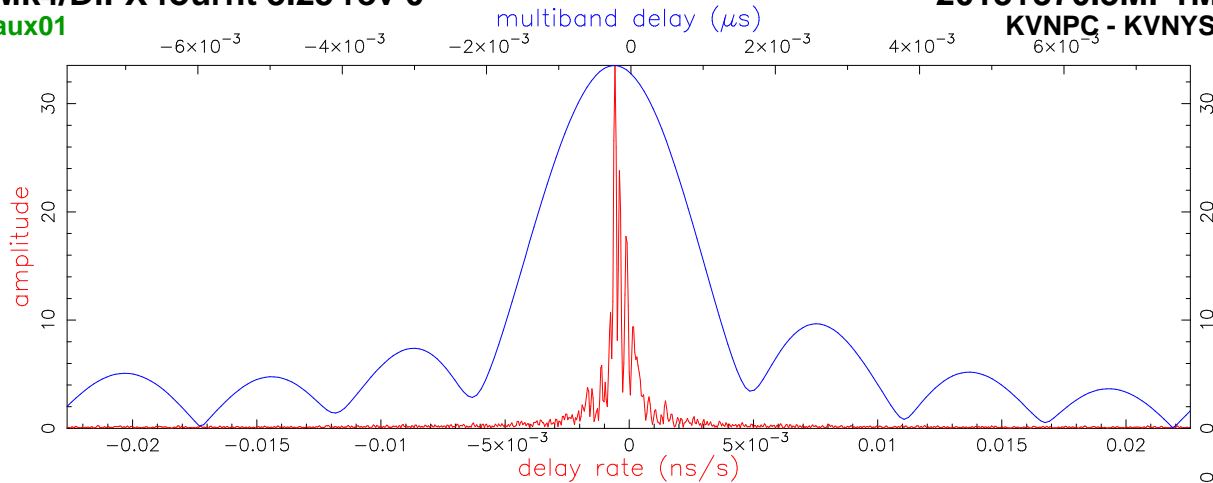
ph/seg (deg) 48.2 0.2 Theor. Amplitude 34.203 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 32.8 0.4 Search (1024X32) 33.325 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.7 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 1.8 0.2 Inc. seg. avg. 45.190 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 L: az 281.9 el 58.5 pa 76.9 y: az 281.4 el 59.7 pa 77.3 u,v (fr/asec) 73.246 33.122 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/Ly..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Ly.Q.16.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

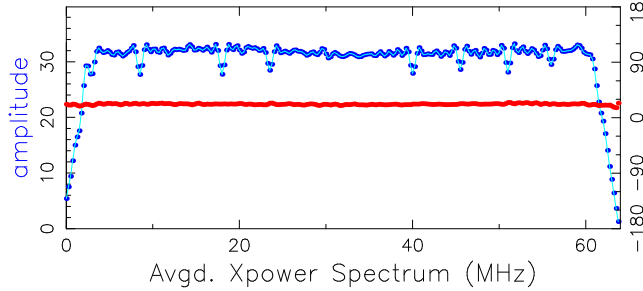
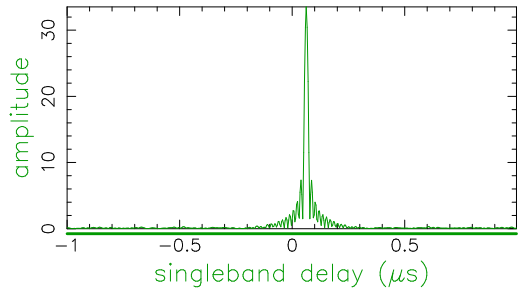
2013+370.3MP1MR, No0413, Ly

KVNPC - KVNYS, fgroup Q, pol RR



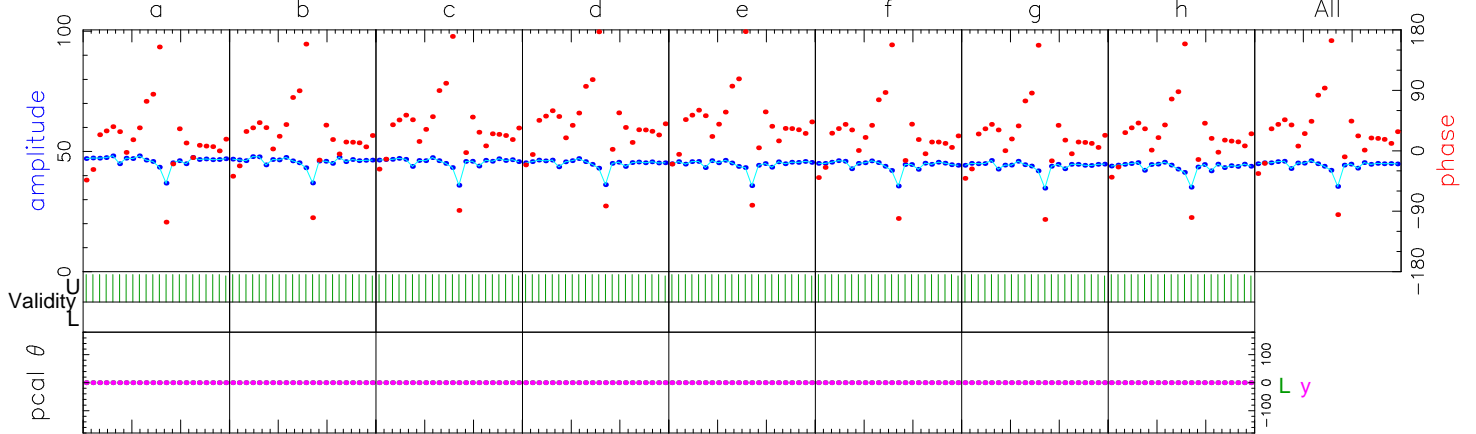
Fringe quality 6

SNR 1229.5
 Int time 179.833
 Amp 33.535
 Phase 114.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.062504
 MBD -0.000230
 Fringe rate (Hz)
 -0.024260
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145750
 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	0	24000	0	0	32000	0	0	40000	PC freqs	
y	0	24000	0	0	32000	0	0	40000	PC freqs	
L:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	-2.59151182484E+02	Apriori delay (usec)	-2.59213452527E+02	Resid mbdelay (usec)	-2.29957E-04	+/-	8.8E-07
Sband delay (usec)	-2.59150948777E+02	Apriori clock (usec)	-3.4040604E+01	Resid sbdelay (usec)	6.25037E-02	+/-	7.0E-06
Phase delay (usec)	-2.59213450935E+02	Apriori clockrate (us/s)	-7.3743381E-06	Resid phdelay (usec)	1.59230E-06	+/-	6.0E-09
Delay rate (us/s)	-2.02098900572E-02	Apriori rate (us/s)	-2.02093276991E-02	Resid rate (us/s)	-5.62358E-07	+/-	5.8E-11
Total phase (deg)	351.6	Apriori accel (us/s/s)	1.17015006368E-06	Resid phase (deg)	114.7	+/-	0.1

ph/seg (deg) 48.2 0.2 Theor. Amplitude 33.535 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 32.9 0.4 Search (1024X32) 32.269 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.2 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 2.1 0.2 Inc. seg. avg. 44.345 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Inc. frq. avg. 33.937 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

L: az 281.9 el 58.5 pa 76.9 y: az 281.4 el 59.7 pa 77.3 u,v (fr/asec) 73.246 33.122 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/Ly..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Ly.Q.25.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

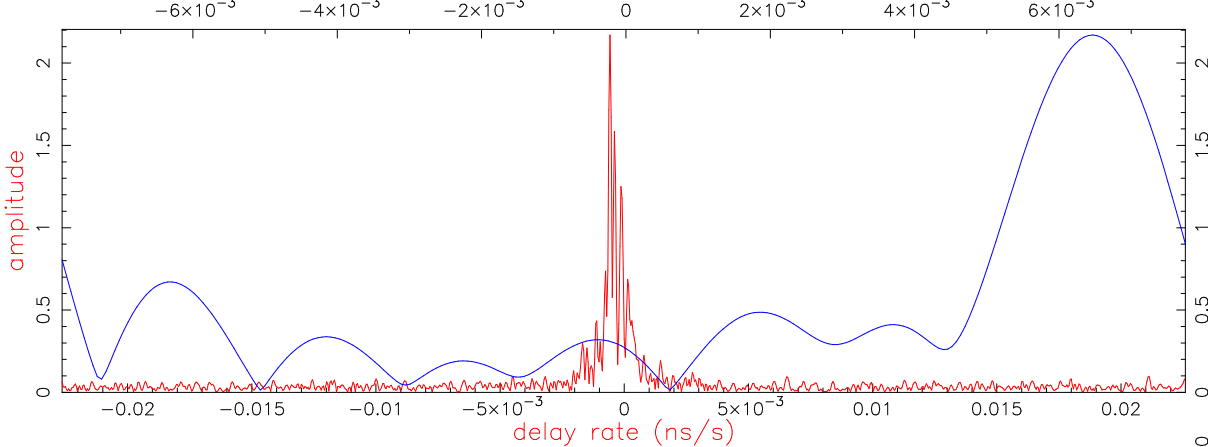
aux01

2013+370.3MP1MR, No0413, Ly

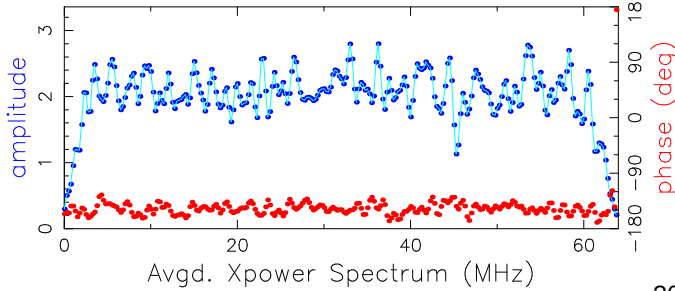
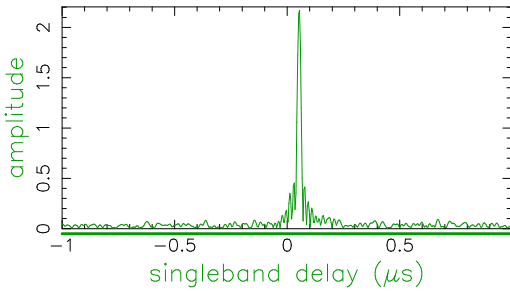
KVNPC - KVNYS, fgroup Q, pol LR

multiband delay (μ s)

Fringe quality 5

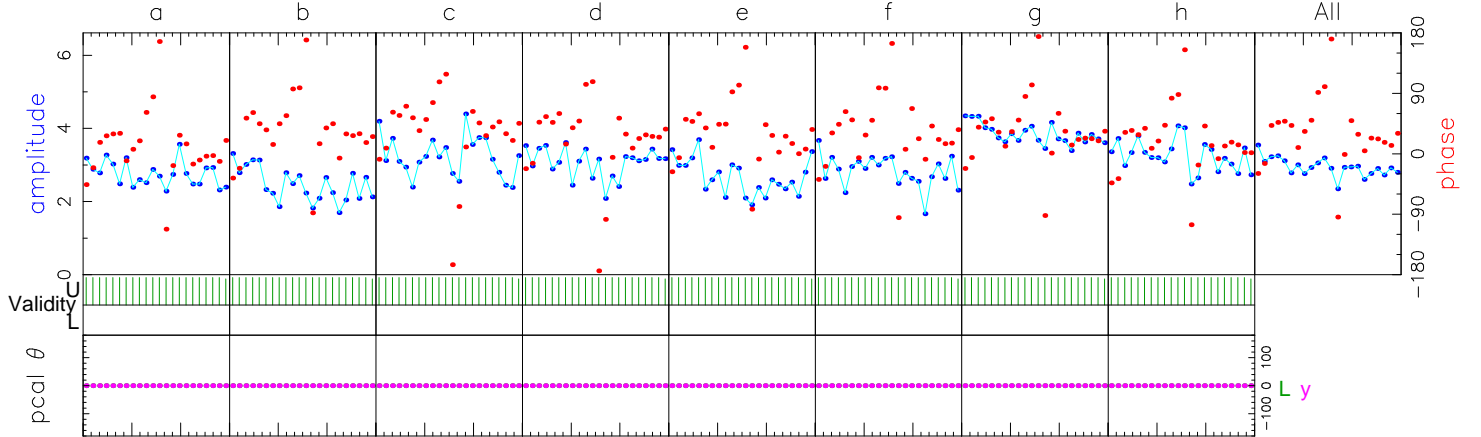


SNR 80.8
 Int time 179.833
 Amp 2.205
 Phase 277.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.053097
 MBD 0.006462
 Fringe rate (Hz) -0.024177
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145752
 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
Validity	8.1	34.1	46.0	34.0	30.5	31.0	31.2	20.2	Phase	29.7
U/L	2.1	1.8	2.4	2.2	2.0	2.0	2.9	2.3	Ampl.	2.2
L	270.5	271.3	270.4	270.2	270.5	270.7	270.5	270.7	Sbd box	270.6
y	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
y	0	24000	0	0	32000	0	0	40000	PC freqs	
L:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-2.59160115547E+02			Apriori delay (usec)	-2.59213452527E+02			Resid mbdelay (usec)	6.46198E-03	+/- 1.3E-05
Sband delay (usec)	-2.59160355527E+02			Apriori clock (usec)	-3.4040604E+01			Resid sbdelay (usec)	5.30970E-02	+/- 1.1E-04
Phase delay (usec)	-2.59213450618E+02			Apriori clockrate (us/s)	-7.3743381E-02			Resid phdelay (usec)	1.90948E-06	+/- 9.1E-08
Delay rate (us/s)	-2.02098881331E-02			Apriori rate (us/s)	-2.02093276991E-02			Resid rate (us/s)	-5.60434E-07	+/- 8.8E-10
Total phase (deg)		154.0		Apriori accel (us/s/s)	1.17015006368E-06			Resid phase (deg)	277.2	+/- 1.4

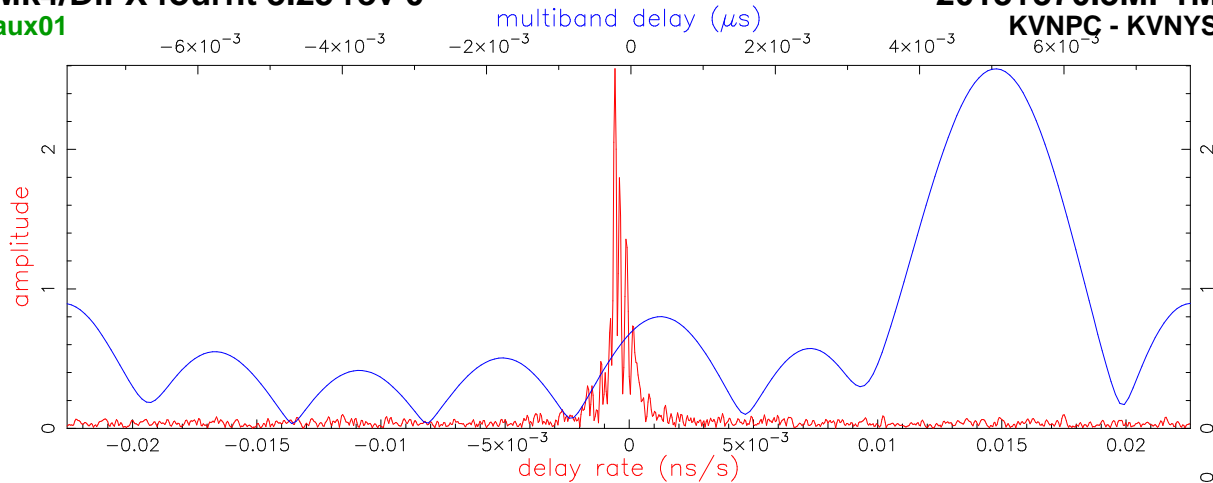
ph/seg (deg) 49.5 3.3 Search (1024X32) 2.080 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 35.4 5.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.0 2.0 Inc. seg. avg. 2.942 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.2 3.5 Inc. frq. avg. 2.205 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 L: az 281.9 el 58.5 pa 76.9 y: az 281.4 el 59.7 pa 77.3 u,v (fr/asec) 73.246 33.122 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/No0413/Ly..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Ly.Q.31.3MP1MR simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

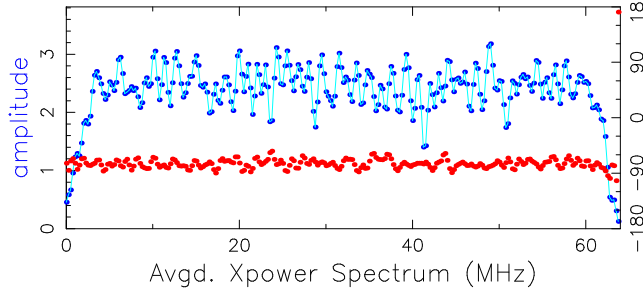
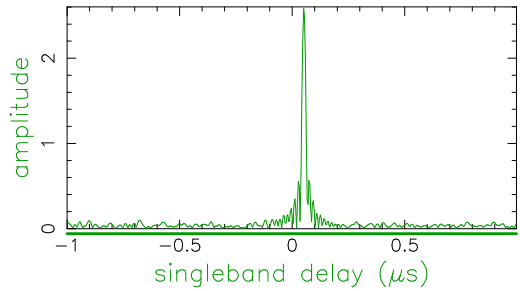
2013+370.3MP1MR, No0413, Ly

KVNPC - KVNYS, fgroup Q, pol RL



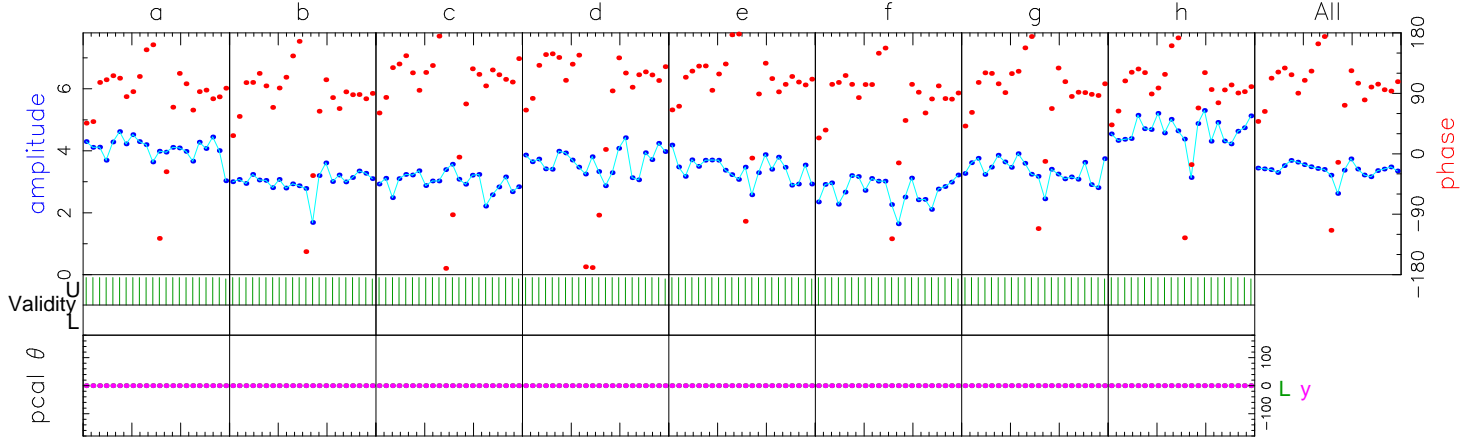
Fringe quality 5

SNR 95.4
 Int time 179.833
 Amp 2.602
 Phase 353.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.051995
 MBD 0.005050
 Fringe rate (Hz)
 -0.024198
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002000.00
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145753
 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	0	24000	0	0	32000	0	0	40000		
y	0	24000	0	0	32000	0	0	40000		
L:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
L:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	-2.59161527797E+02	Apriori delay (usec)	-2.59213452527E+02	Resid mbdelay (usec)	5.04973E-03	+/-	1.1E-05
Sband delay (usec)	-2.59161457527E+02	Apriori clock (usec)	-3.4040604E+01	Resid sbdelay (usec)	5.19950E-02	+/-	9.0E-05
Phase delay (usec)	-2.59213445698E+02	Apriori clockrate (us/s)	-7.3743381E-06	Resid phdelay (usec)	6.82876E-06	+/-	7.7E-08
Delay rate (us/s)	-2.02098886056E-02	Apriori rate (us/s)	-2.02093276991E-02	Resid rate (us/s)	-5.60907E-07	+/-	7.4E-10
Total phase (deg)	230.4	Apriori accel (us/s/s)	1.17015006368E-06	Resid phase (deg)	353.6	+/-	1.2

ph/seg (deg)	48.1	RMS	2.8	Theor.	2.602 +/- 0.027	Amplitude	2.602 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	31.5	Search (1024X32)	2.447	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	13.3	Inc. seg. avg.	3.387	Inc. frq. avg.	2.628	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	17.5	Inc. frq. avg.	2.628	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

L: az 281.9 el 58.5 pa 76.9 y: az 281.4 el 59.7 pa 77.3 u,v (fr/asec) 73.246 33.122 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/Ly..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/Ly.Q.36.3MP1MR

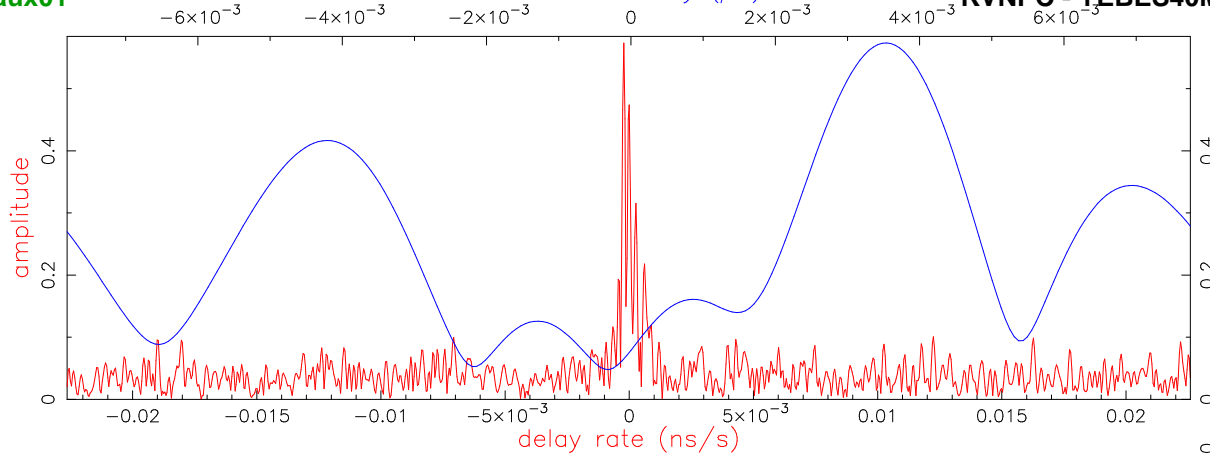
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1MR, No0413, LY

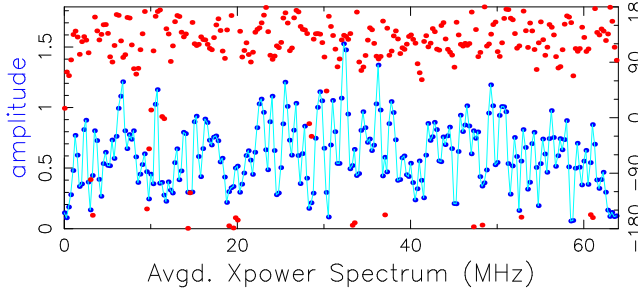
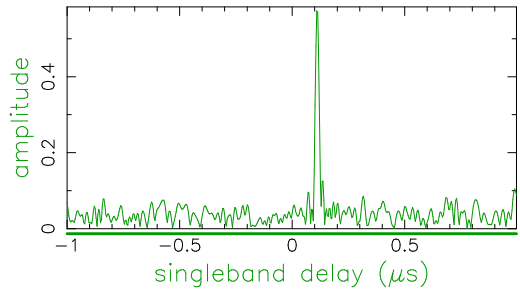
KVNPC - YEBES40M, fgroup Q, pol LL

multiband delay (μs)



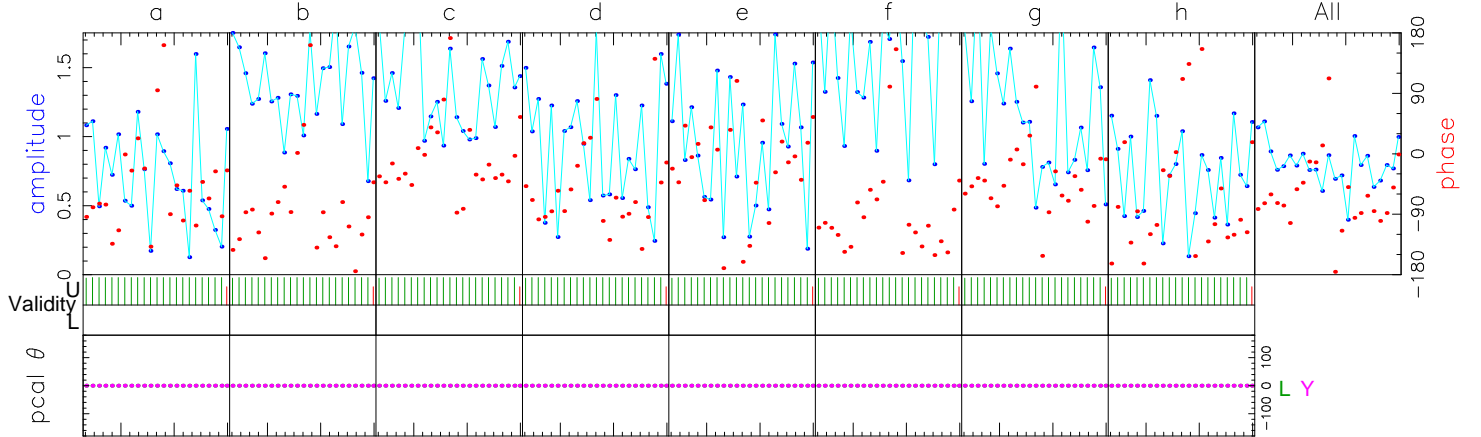
Fringe quality 7

SNR 20.3
 Int time 162.223
 Amp 0.584
 Phase 268.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.111180
 MBD 0.003574
 Fringe rate (Hz)
 -0.008958
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002017.41
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145755
 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
	-72.6	-111.4	-20.2	-62.5	-2.9	-114.3	-45.7	-111.9	Phase	-68.8
	0.4	1.0	1.0	0.6	0.6	1.2	1.0	0.4	Ampl.	0.8
	287.4	285.5	285.2	284.4	284.9	284.9	285.3	286.5	Sbd box	285.5
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
L:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	1.01000655877E+04	Apriori delay (usec)	1.00999526390E+04	Resid mbdelay (usec)	3.57373E-03	+/-	5.3E-05
Sband delay (usec)	1.01000638195E+04	Apriori clock (usec)	8.3284378E+01	Resid sbdelay (usec)	1.11180E-01	+/-	4.2E-04
Phase delay (usec)	1.00999526346E+04	Apriori clockrate (us/s)	-6.3064658E-06	Resid phdelay (usec)	-4.43237E-06	+/-	3.6E-07
Delay rate (us/s)	-1.57401254260E+00	Apriori rate (us/s)	-1.57401233494E+00	Resid rate (us/s)	-2.07658E-07	+/-	3.9E-09
Total phase (deg)	213.2	Apriori accel (us/s/s)	-5.60359351452E-05	Resid phase (deg)	268.7	+/-	5.6

ph/seg (deg)	54.6	Theor.	13.5	Amplitude	0.584 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	45.4	Search (1024X32)	0.559	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	46.6	Inc. seg. avg.	0.779	Inc. frq. avg.	0.751	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	56.1	Inc. frq. avg.	0.751			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 281.9 el 58.5 pa 76.9 Y: az 59.2 el 22.1 pa -55.2 u,v (fr/asec) 5648.555 -1856.006 simultaneous interpolator

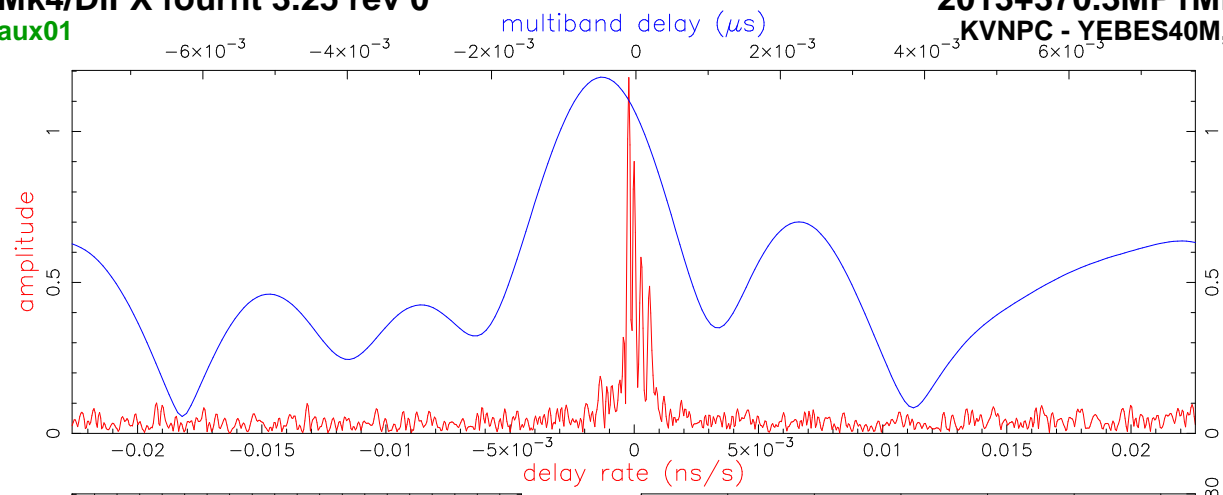
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LY...3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LY.Q.42.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1MR, No0413, LY

KVNPC - YEBES40M, fgroup Q, pol RR



Fringe quality 5

SNR 41.9

Int time 162.223

Amp 1.203

Phase 182.6

PFD 0.0e+00

Delays (us)

SBD 0.123189

MBD -0.000511

Fringe rate (Hz)

-0.008976

Ion TEC 0.000

Ref freq (MHz)

43140.0000

AP (sec) 0.512

Exp. c241d

Exper # 1234

Yr:day 2024:113

Start 002017.41

Stop 002300.22

FRT 002130.00

Corr/FF/build

2024:318:034634

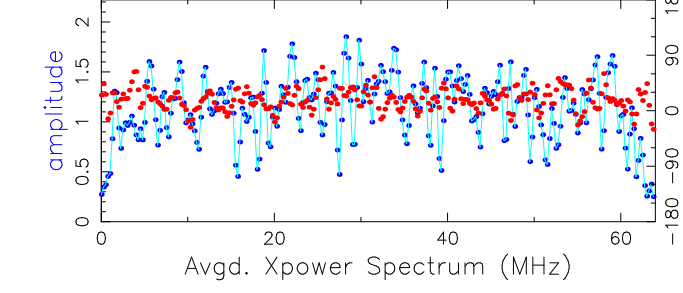
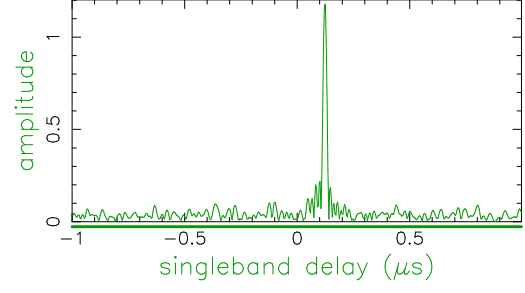
2025:042:145758

2024:113:095956

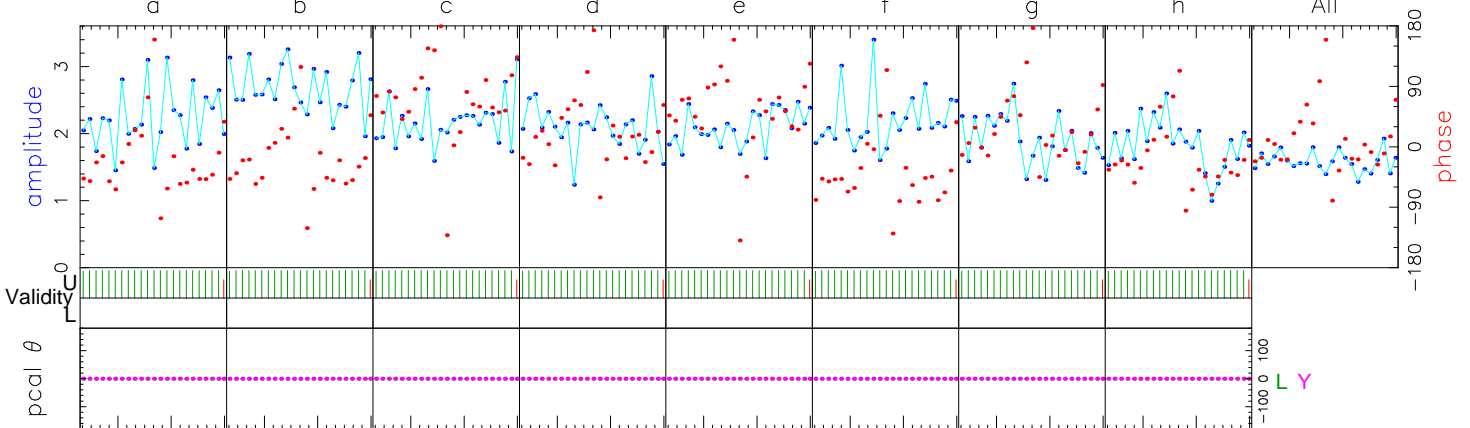
RA & Dec (J2000)

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
	-28.8	-22.7	78.8	11.8	63.0	-46.7	21.1	-19.4	Phase	2.6
	1.7	2.0	1.5	1.5	1.5	1.7	1.4	1.3	Ampl.	1.6
	289.7	288.4	288.5	288.0	287.5	287.8	288.2	288.3	Sbd box	288.5
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
L:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	1.01000771277E+04	Apriori delay (usec)	1.00999526390E+04	Resid mbdelay (usec)	-5.11272E-04	+/-	2.6E-05
Sband delay (usec)	1.01000758282E+04	Apriori clock (usec)	8.3284378E+01	Resid sbdelay (usec)	1.23189E-01	+/-	2.1E-04
Phase delay (usec)	1.00999526392E+04	Apriori clockrate (us/s)	-6.3064658E-06	Resid phdelay (usec)	1.65194E-07	+/-	1.8E-07
Delay rate (us/s)	-1.57401254301E+00	Apriori rate (us/s)	-1.57401233494E+00	Resid rate (us/s)	-2.08068E-07	+/-	1.9E-09
Total phase (deg)	127.1	Apriori accel (us/s/s)	-5.60359351452E-05	Resid phase (deg)	182.6	+/-	2.7

ph/seg (deg)	49.4	Theor.	6.6	Amplitude	1.203 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	34.0	Search (1024X32)	1.158	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	49.0	Inc. seg. avg.	1.573	Inc. frq. avg.	1.565	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.3	Inc. frq. avg.	1.565	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
L: az 281.9 el 58.5 pa 76.9	Y: az 59.2 el 22.1 pa -55.2	u, v (fr/asec)	5648.555 -1856.006	simultaneous interpolator		ion window (TEC)	0.00 0.00			

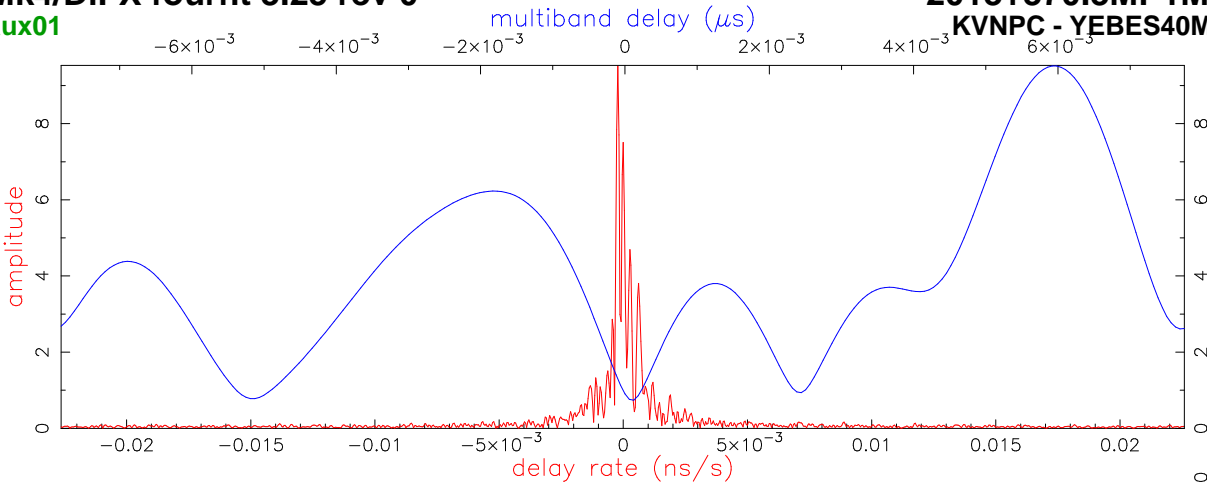
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LY...3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LY.Q.45.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

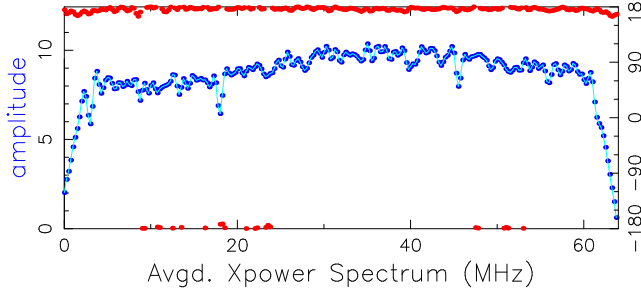
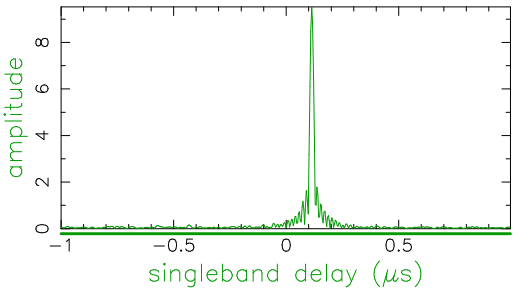
2013+370.3MP1MR, No0413, LY

KVNPC - YEBES40M, fgroup Q, pol LR



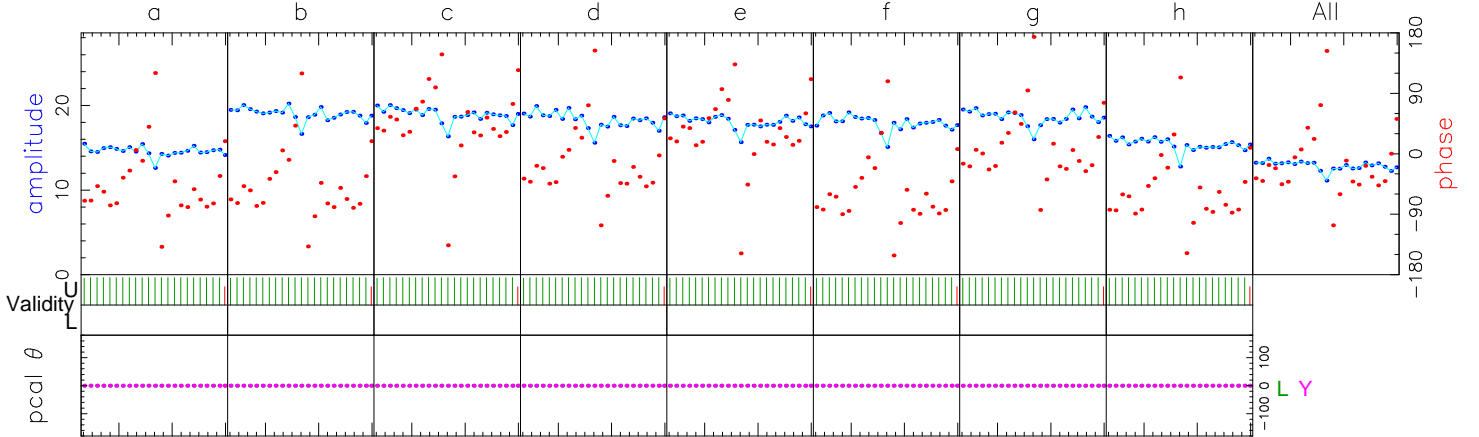
Fringe quality 3

SNR 331.9
 Int time 162.223
 Amp 9.529
 Phase 316.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.113776
 MBD 0.005963
 Fringe rate (Hz)
 -0.008983
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002017.41
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145803
 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
	-53.7	-53.7	51.8	-21.8	37.6	-64.3	1.7	-63.4	Phase	-21.2
	10.8	14.0	13.9	13.5	13.4	13.2	13.7	11.4	Ampl.	13.0
	287.6	286.0	285.9	285.5	285.3	285.6	285.7	286.1	Sbd box	286.1
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
L:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD) 1.01000679766E+04 Apriori delay (usec) 1.00999526390E+04 Resid mbdelay (usec) 5.96263E-03 +/- 3.3E-06
 Sband delay (usec) 1.01000664152E+04 Apriori clock (usec) 8.3284378E+01 Resid sbdelay (usec) 1.13776E-01 +/- 2.6E-05
 Phase delay (usec) 1.00999526376E+04 Apriori clockrate (us/s) -6.3064658E-06 Resid phdelay (usec) -1.36661E-06 +/- 2.2E-08
 Delay rate (us/s) -1.57401254316E+00 Apriori rate (us/s) -1.57401233494E+00 Resid rate (us/s) -2.08218E-07 +/- 2.4E-10
 Total phase (deg) 260.8 Apriori accel (us/s/s) -5.60359351452E-05 Resid phase (deg) 316.3 +/- 0.3

RMS Theor. Amplitude 9.529 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 52.5 0.8 Search (1024X32) 9.299 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 35.7 1.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 50.1 0.5 Inc. seg. avg. 12.887 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 38.2 0.9 Inc. frq. avg. 12.988 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

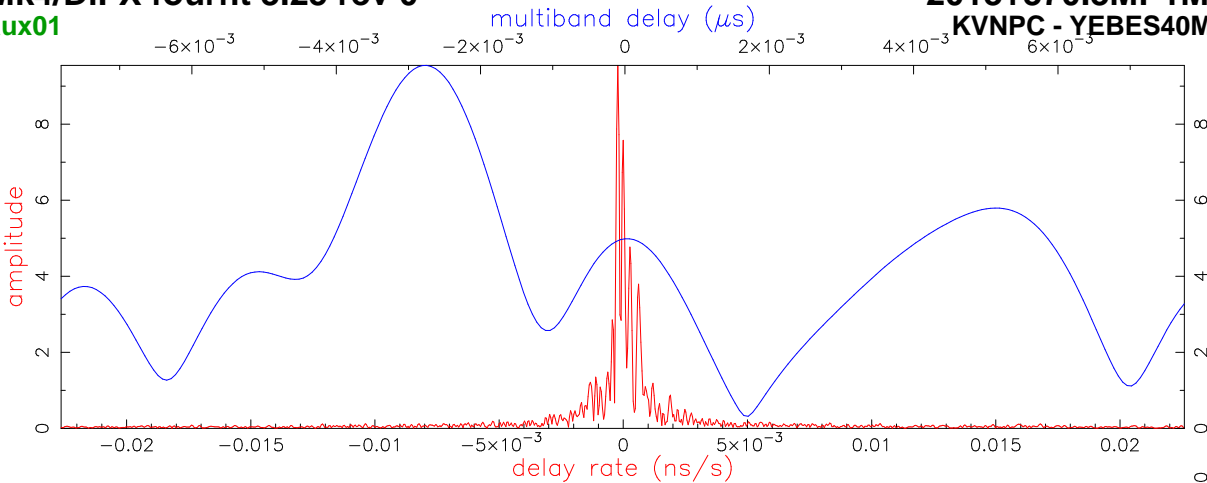
L: az 281.9 el 58.5 pa 76.9 Y: az 59.2 el 22.1 pa -55.2 u,v (fr/asec) 5648.555 -1856.006 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LY...3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LY.Q.49.3MP1MR

Mk4/DiFX fourfit 3.25 rev 0

aux01

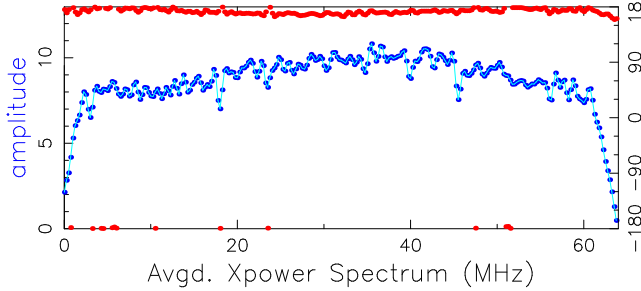
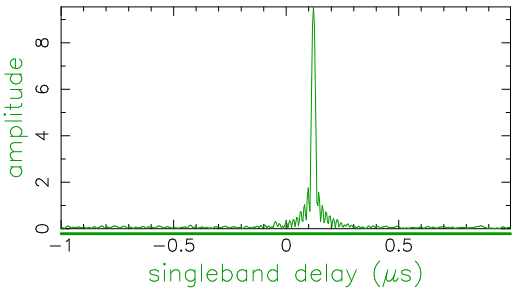
2013+370.3MP1MR, No0413, LY

KVNPC - YEBES40M, fgroup Q, pol RL



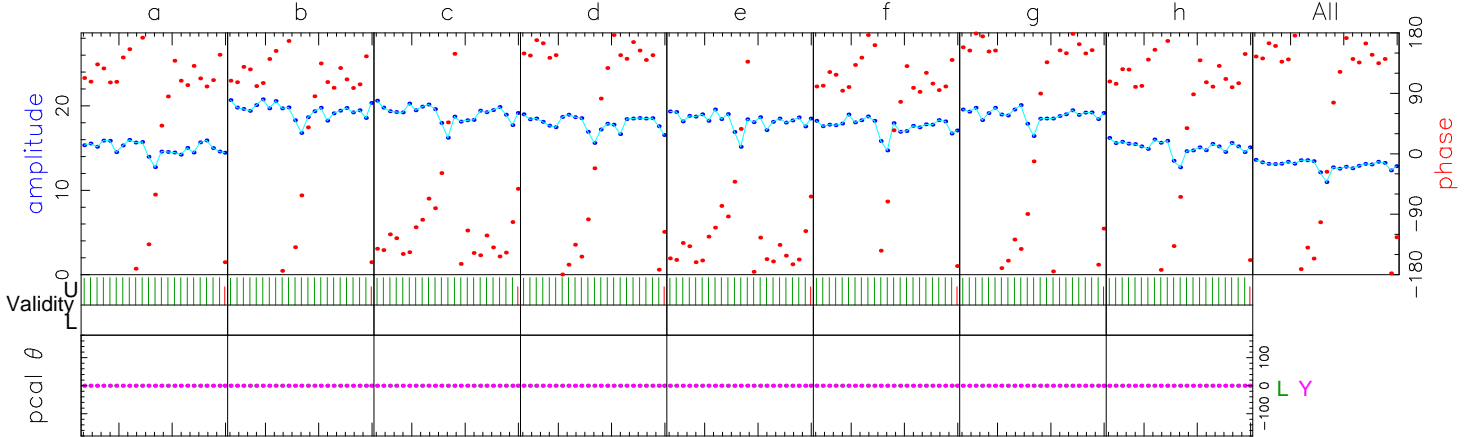
Fringe quality 3

SNR 332.5
 Int time 162.223
 Amp 9.546
 Phase 340.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.121175
 MBD -0.002766
 Fringe rate (Hz)
 -0.009002
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:113
 Start 002017.41
 Stop 002300.22
 FRT 002130.00
 Corr/FF/build
 2024:318:034634
 2025:042:145808
 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
	127.4	124.6	-125.6	165.6	-137.9	117.6	174.3	124.9	Phase	160.6
	11.0	14.3	14.0	13.3	13.5	13.1	13.9	11.0	Ampl.	13.0
	289.5	288.1	287.7	287.2	287.2	287.2	287.8	287.5	Sbd box	288.0
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
L	0	24000	0	0	32000	0	0	40000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
L:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
L	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	1.01000748732E+04	Apriori delay (usec)	1.00999526390E+04	Resid mbdelay (usec)	-2.76583E-03	+/-	3.3E-06
Sband delay (usec)	1.01000738140E+04	Apriori clock (usec)	8.3284378E+01	Resid sbdelay (usec)	1.21175E-01	+/-	2.6E-05
Phase delay (usec)	1.00999526493E+04	Apriori clockrate (us/s)	-6.3064658E-06	Resid phdelay (usec)	1.03411E-05	+/-	2.2E-08
Delay rate (us/s)	-1.57401254362E+00	Apriori rate (us/s)	-1.57401233494E+00	Resid rate (us/s)	-2.08677E-07	+/-	2.4E-10
Total phase (deg)	285.1	Apriori accel (us/s/s)	-5.60359351452E-05	Resid phase (deg)	340.6	+/-	0.3

ph/seg (deg)	52.6	0.8	Search (1024X32)	9.256	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	36.3	1.4	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)	49.9	0.5	Inc. seg. avg.	12.958	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
amp/frq (%)	38.4	0.9	Inc. frq. avg.	13.006	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

L: az 281.9 el 58.5 pa 76.9 Y: az 59.2 el 22.1 pa -55.2 u,v (fr/asec) 5648.555 -1856.006 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0413/LY..3MP1MR Output file: /Exps/c241d/v1/7mm/1234/No0413/LY.Q.54.3MP1MR