

Mk4/DiFX fourfit 3.25 rev 0

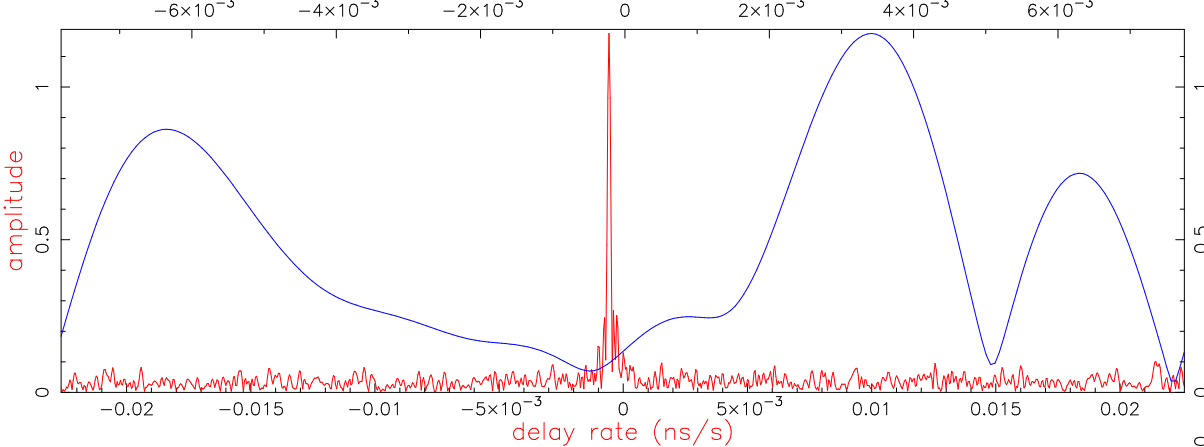
aux01

3C345.3MP1HX, No0399, Bu

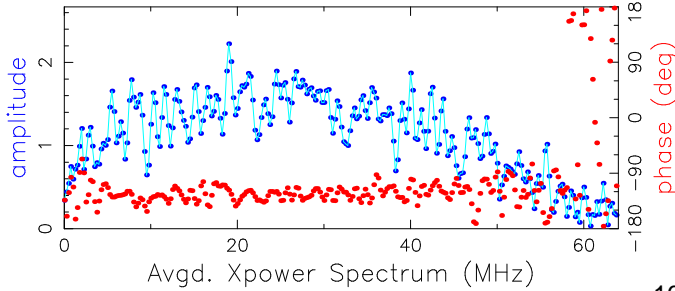
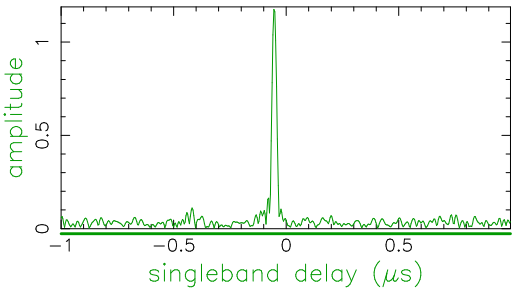
EFLSBERG - KVNUS, fgroup Q, pol LL

multiband delay (μ s)

Fringe quality 5

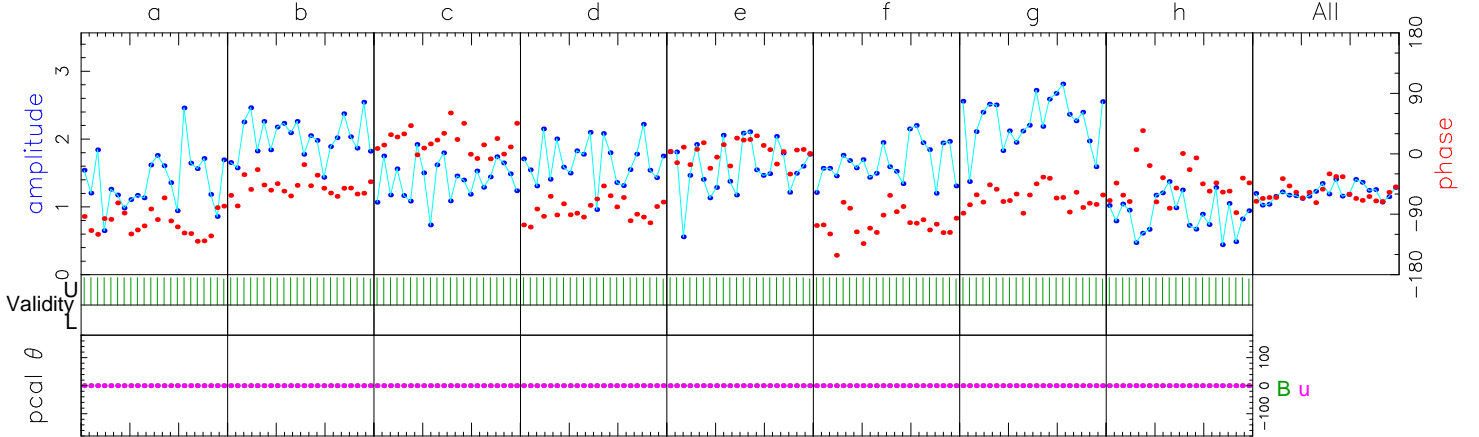


SNR 43.6
 Int time 179.805
 Amp 1.189
 Phase -147.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.053082
 MBD 0.003414
 Fringe rate (Hz)
 -0.024883
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145506
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-103.6	-49.5	17.8	-83.5	3.4	-103.8	-64.2	-45.2	Phase	-57.3
	1.3	2.0	1.3	1.6	1.5	1.6	2.2	0.8	Ampl.	1.5
	240.2	243.4	245.0	244.6	245.0	244.4	242.8	237.9	Sbd box	243.4
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	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD) 4.08008712314E+02 Apriori delay (usec) 4.08067798084E+02 Resid mbdelay (usec) 3.41423E-03 +/- 2.5E-05
 Sband delay (usec) 4.08014716084E+02 Apriori clock (usec) -3.6673389E+01 Resid sbdelay (usec) -5.30820E-02 +/- 2.0E-04
 Phase delay (usec) 4.08067794395E+02 Apriori clockrate (us/s) -2.6931994E-07 Resid phdelay (usec) -3.68898E-06 +/- 1.7E-07
 Delay rate (us/s) 1.51224414153E+00 Apriori rate (us/s) 1.51224471833E+00 Resid rate (us/s) -5.76803E-07 +/- 1.6E-09
 Total phase (deg) -215.9 Apriori accel (us/s/s) 1.13965314198E-05 Resid phase (deg) -147.3 +/- 2.6

RMS Theor. Amplitude 1.189 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 13.0 6.2 Search (1024X32) 1.167 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 8.8 10.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 49.3 3.7 Inc. seg. avg. 1.200 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 44.3 6.5 Inc. frq. avg. 1.533 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

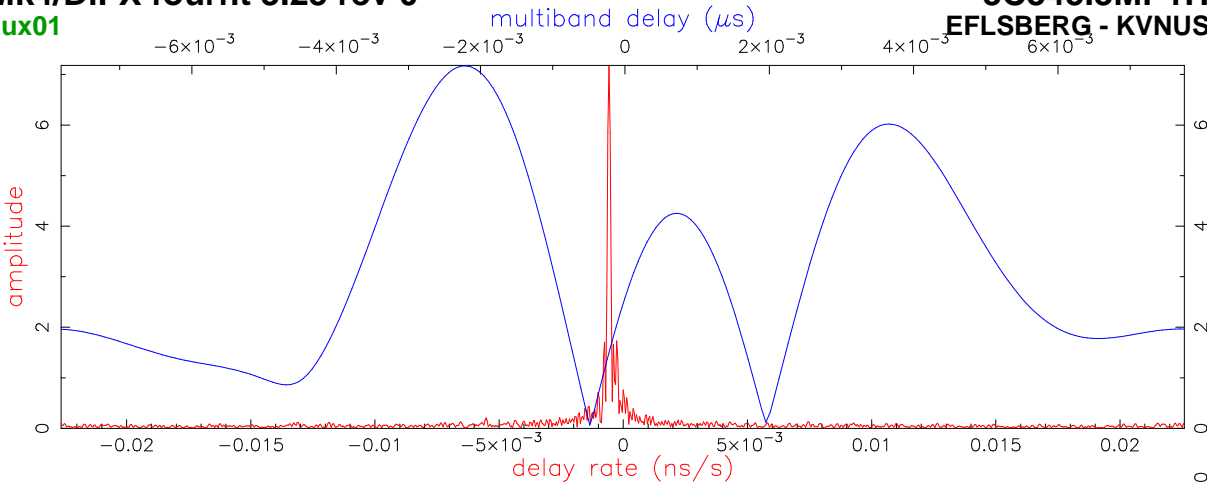
B: az 78.3 el 45.3 pa -54.2 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -5635.229 1062.982 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.14.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

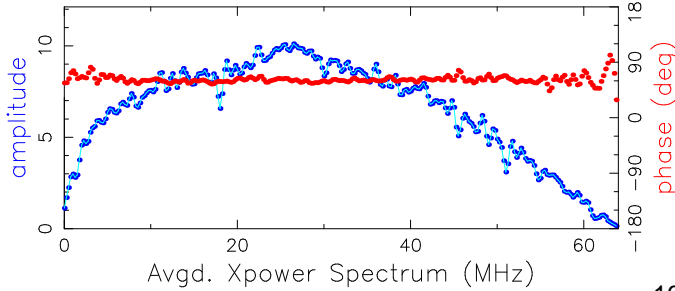
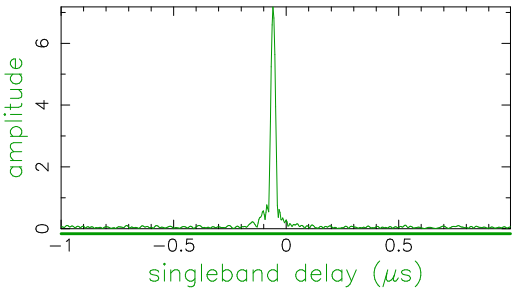
3C345.3MP1HX, No0399, Bu

EFLSBERG - KVNUS, fgroup Q, pol RR



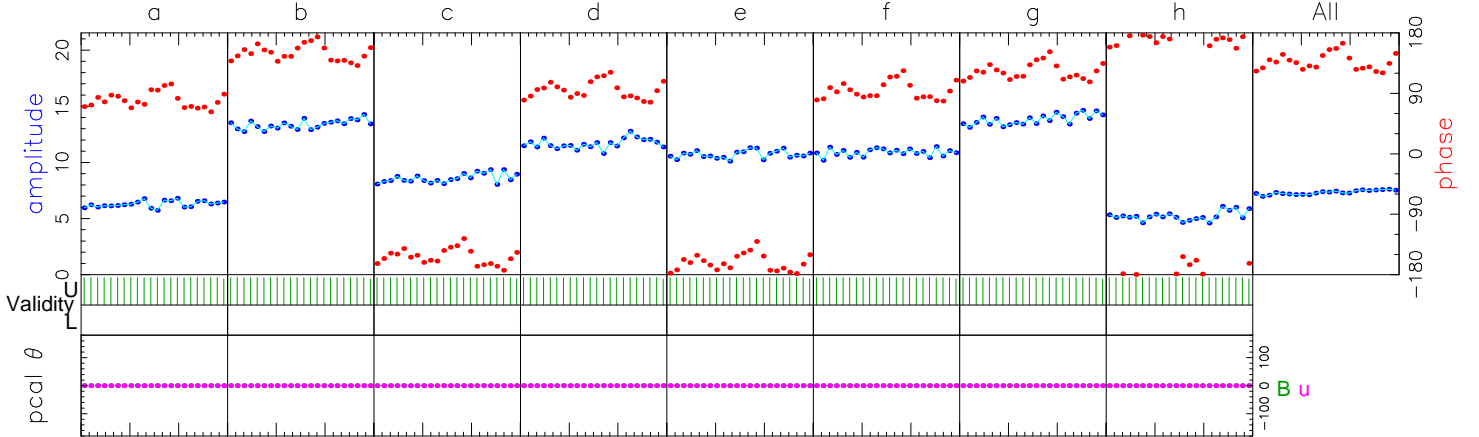
Fringe quality 4

SNR 263.2
 Int time 179.805
 Amp 7.180
 Phase -313.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.058119
 MBD -0.002216
 Fringe rate (Hz)
 -0.024800
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145508
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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		
u	0	24000	0	0	32000	0	0	40000		
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD)	4.08003082095E+02	Apriori delay (usec)	4.08067798084E+02	Resid mbdelay (usec)	-2.21599E-03	+/-	4.1E-06
Sband delay (usec)	4.08009679084E+02	Apriori clock (usec)	-3.6673389E+01	Resid sbdelay (usec)	-5.81190E-02	+/-	3.3E-05
Phase delay (usec)	4.08067806884E+02	Apriori clockrate (us/s)	-2.6931994E-07	Resid phdelay (usec)	8.80084E-06	+/-	2.8E-08
Delay rate (us/s)	1.51224414346E+00	Apriori rate (us/s)	1.51224471833E+00	Resid rate (us/s)	-5.74865E-07	+/-	2.7E-10
Total phase (deg)	-22.0	Apriori accel (us/s/s)	1.13965314198E-05	Resid phase (deg)	-313.3	+/-	0.4

ph/seg (deg)	12.0	Theor.	Amplitude	7.180 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	3.3	1.0	Search (1024X32)	6.997	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	53.9	0.6	Inc. seg. avg.	7.331	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	54.6	1.1	Inc. frq. avg.	9.854	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 78.3 el 45.3 pa -54.2 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -5635.229 1062.982 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.31.3MP1HX

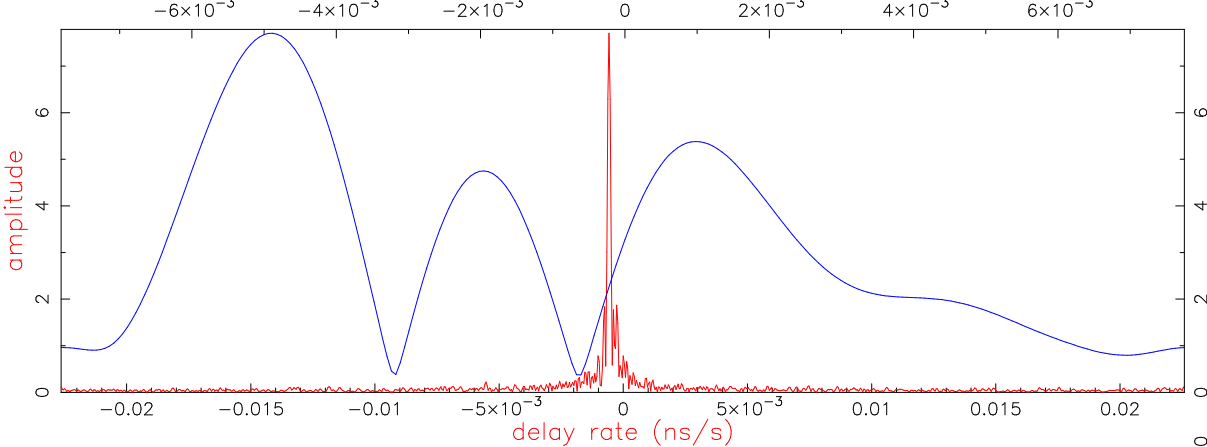
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, Bu

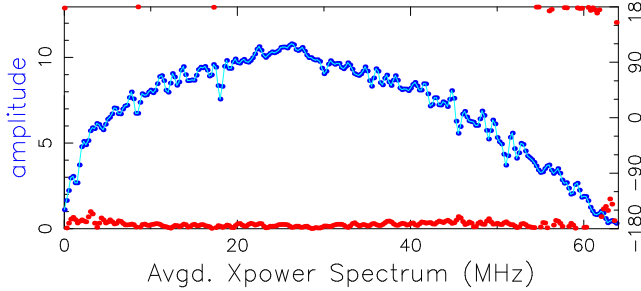
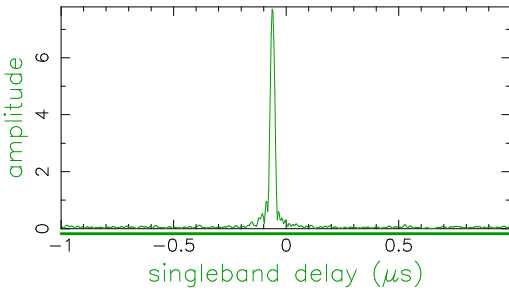
EFLSBERG - KVNUS, fgroup Q, pol LR

multiband delay (μ s)



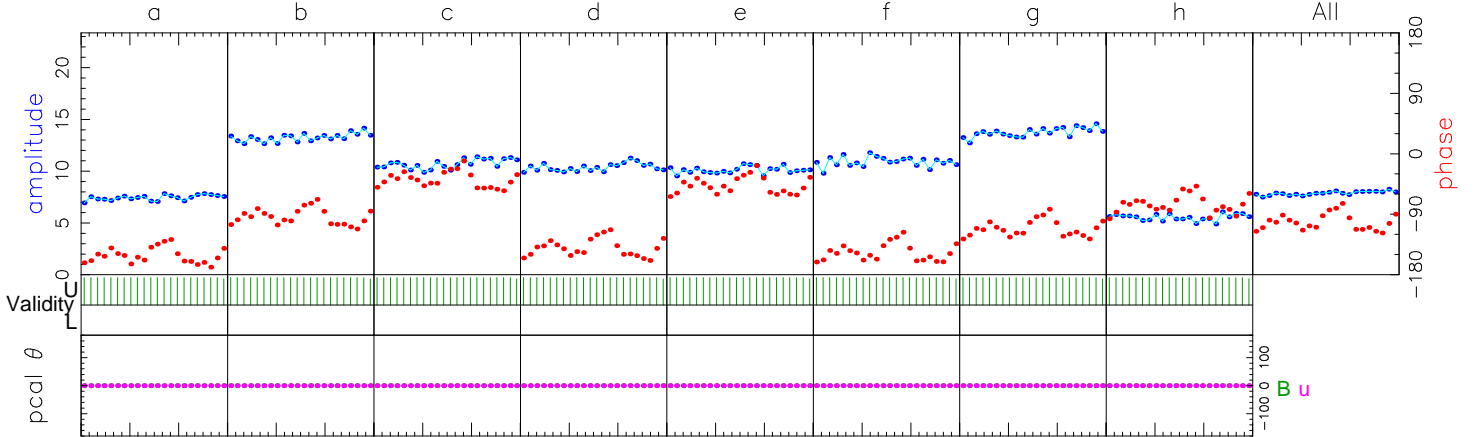
Fringe quality 4

SNR 285.5
 Int time 179.805
 Amp 7.788
 Phase -191.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.060970
 MBD -0.004900
 Fringe rate (Hz)
 -0.024806
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145510
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-151.4	-93.9	-38.5	-140.0	-47.0	-146.5	-111.1	-75.5	Phase	-101.7
	7.3	13.0	10.5	10.1	9.9	10.7	13.5	5.4	Ampl.	10.0
	237.9	241.1	242.6	242.7	242.8	242.4	240.9	236.3	Sbd box	241.4
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	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD) 4.08000398314E+02 Apriori delay (usec) 4.08067798084E+02 Resid mbdelay (usec) -4.89977E-03 +/- 3.8E-06
 Sband delay (usec) 4.08006828334E+02 Apriori clock (usec) -3.6673389E+01 Resid sbdelay (usec) -6.09698E-02 +/- 3.0E-05
 Phase delay (usec) 4.08067791537E+02 Apriori clockrate (us/s) -2.6931994E-07 Resid phdelay (usec) -6.54697E-06 +/- 2.6E-08
 Delay rate (us/s) 1.51224414331E+00 Apriori rate (us/s) 1.51224471833E+00 Resid rate (us/s) -5.75021E-07 +/- 2.5E-10
 Total phase (deg) -260.3 Apriori accel (us/s/s) 1.13965314198E-05 Resid phase (deg) -191.7 +/- 0.4

RMS Theor. Amplitude 7.788 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 12.0 0.9 Search (1024X32) 7.656 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.6 1.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 47.9 0.6 Inc. seg. avg. 7.879 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 43.2 1.0 Inc. frq. avg. 10.039 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 78.3 el 45.3 pa -54.2 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -5635.229 1062.982 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.45.3MP1HX

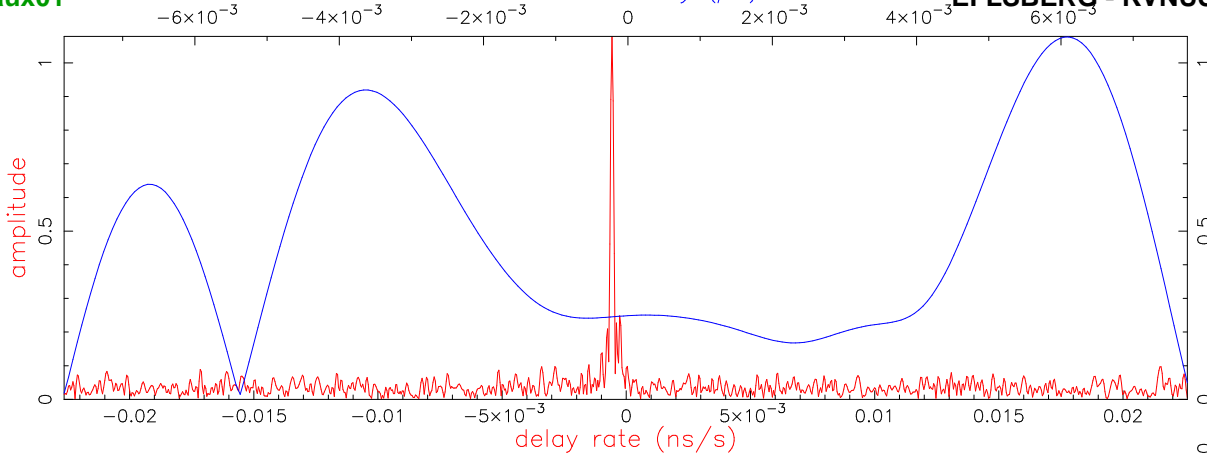
Mk4/DiFX fourfit 3.25 rev 0

aux01

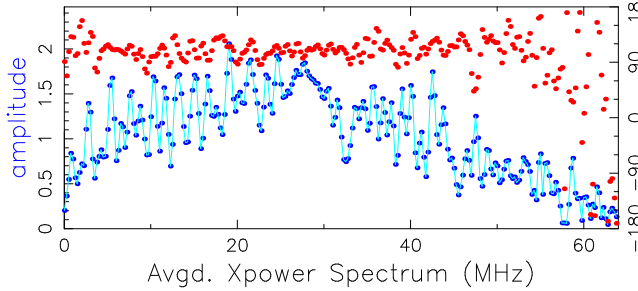
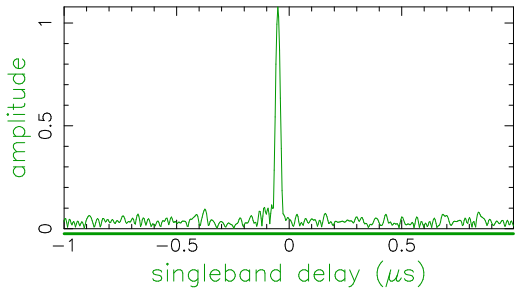
3C345.3MP1HX, No0399, Bu

EFLSBERG - KVNUS, fgroup Q, pol RL

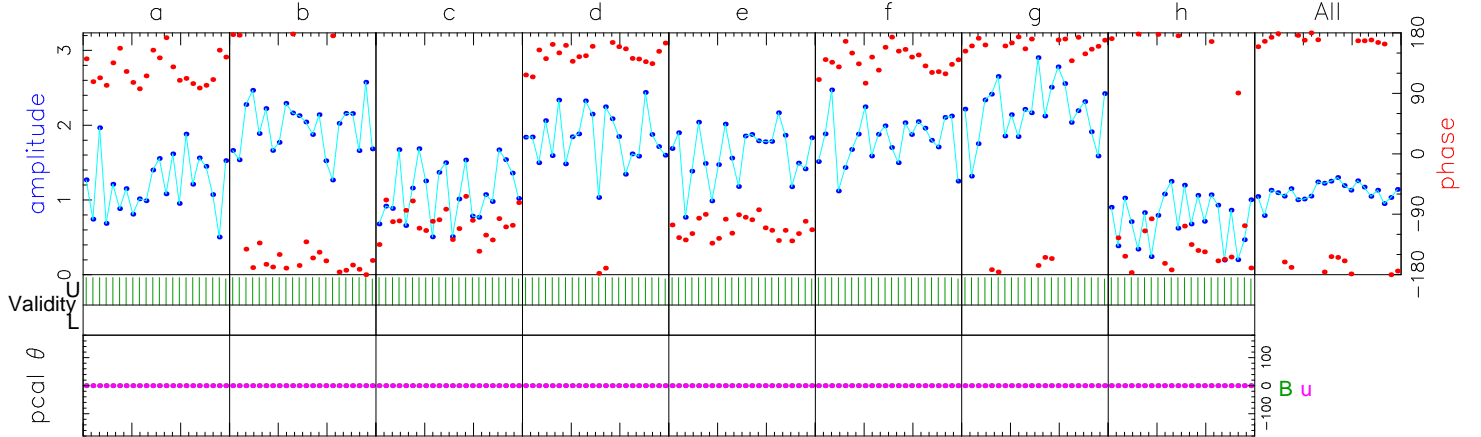
multiband delay (μ s)



Fringe quality 5
 Error code G
 SNR 39.5
 Int time 179.805
 Amp 1.079
 Phase -270.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.050247
 MBD 0.006089
 Fringe rate (Hz)
 -0.024822
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145511
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



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



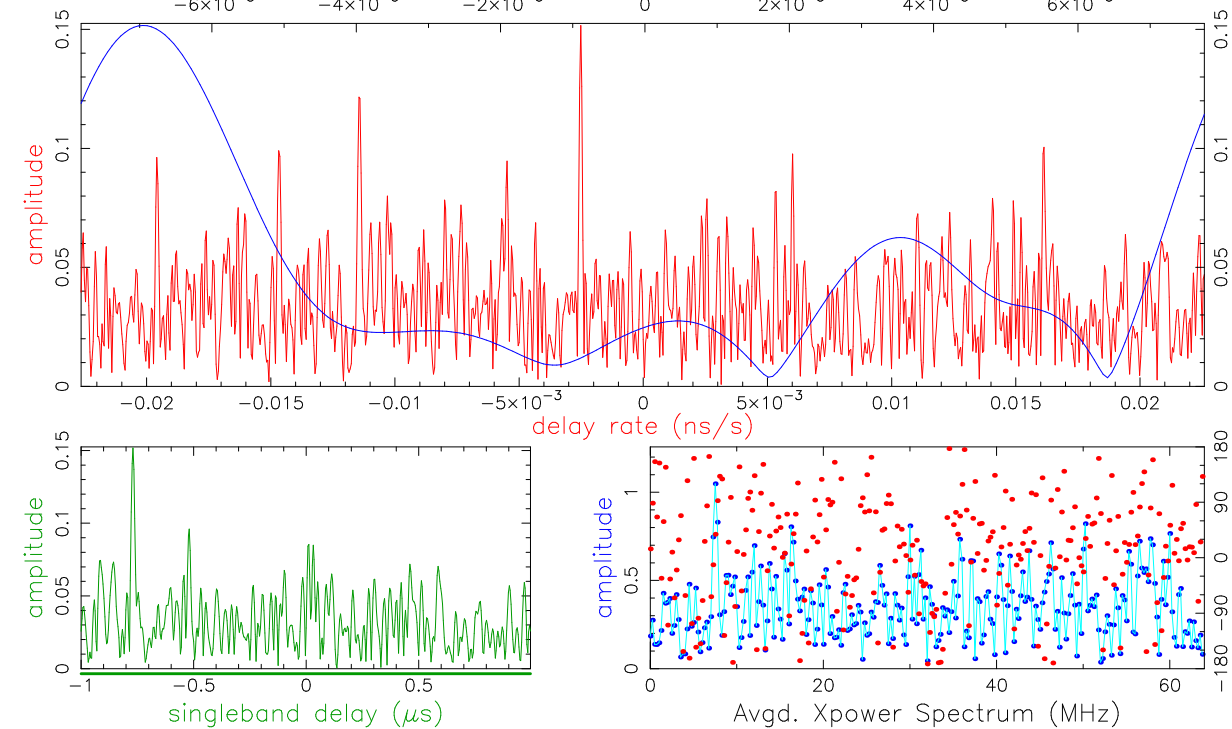
	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All		
	123.5	-164.0	-100.0	149.9	-109.5	137.5	170.8	-157.0	Phase	179.8		
	1.1	1.9	1.0	1.7	1.6	1.7	2.1	0.7	Ampl.	1.5		
	240.3	244.2	245.9	245.3	245.8	244.9	243.7	239.5	Sbd box	244.1		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used			
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
u	0	24000	0	0	32000	0	0	40000	PC freqs			
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
B:u	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			
u	1000	1000	1000	1000	1000	1000	1000	1000				
B	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids			
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks			
									Tracks			
Group delay (usec) (SBD)	4.08011386595E+02		Apriori delay (usec)		4.08067798084E+02		Resid mbdelay (usec)		6.08851E-03	+/- 2.7E-05		
Sband delay (usec)	4.08017550834E+02		Apriori clock (usec)		-3.6673389E+01		Resid sbdelay (usec)		-5.02472E-02	+/- 2.2E-04		
Phase delay (usec)	4.08067809659E+02		Apriori clockrate (us/s)		-2.6931994E-07		Resid phdelay (usec)		1.15757E-05	+/- 1.9E-07		
Delay rate (us/s)	1.51224414295E+00		Apriori rate (us/s)		1.51224471833E+00		Resid rate (us/s)		-5.75383E-07	+/- 1.8E-09		
Total phase (deg)			Apriori accel (us/s/s)		1.13965314198E-05		Resid phase (deg)		-270.2	+/- 2.9		
ph/seg (deg)	RMS 13.7	Theor. 6.8	Amplitude Search (1024X32)		1.079 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	11.1	11.9	Interp.		0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	55.0	4.1	Inc. seg. avg.		1.102		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	56.7	7.2	Inc. frq. avg.		1.481		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
B: az 78.3 el 45.3 pa -54.2	u: az 293.7 el 44.1 pa 75.7		u, v (fr/asec)		-5635.229 1062.982				simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/c241d/v1/7mm/1234/No0399/Bu...3MP1HX		Output file: /Exps/c241d/v1/7mm/1234/No0399/Bu.Q.59.3MP1HX									

Mk4/DiFX fourfit 3.25 rev 0

aux01

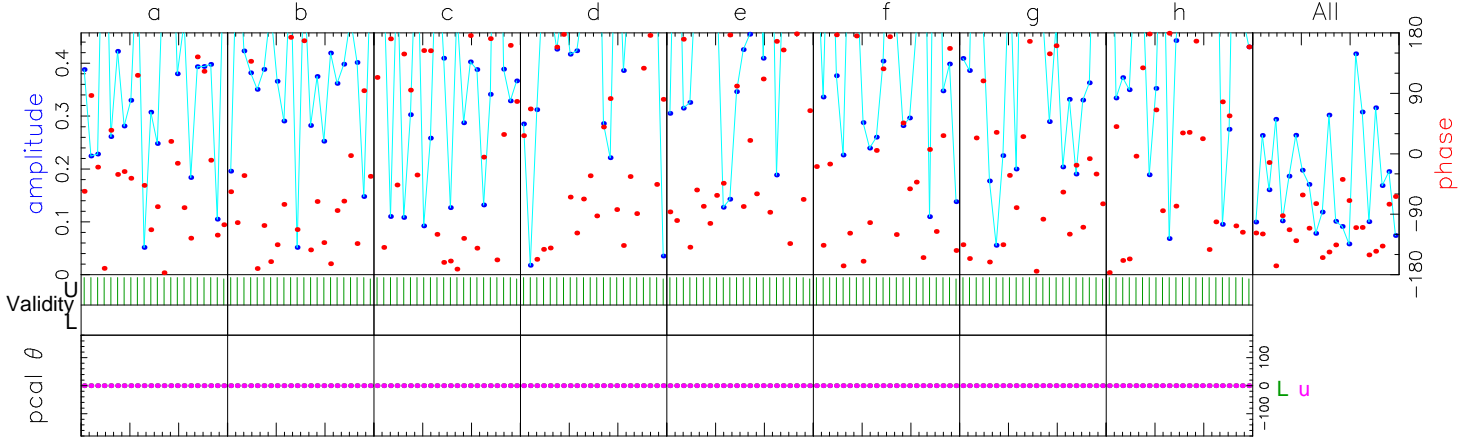
3C345.3MP1HX, No0399, Lu

KVNPC - KVNU, fgroup Q, pol RR



Fringe quality 0
 SNR 5.6
 Int time 179.833
 Amp 0.153
 Phase -318.6
 PFD 9.6e-01
 Delays (us)
 SBD -0.769889
 MBD -0.006959
 Fringe rate (Hz)
 -0.108406
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
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 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-73.8	-119.1	-162.5	-107.1	-99.2	-126.5	-91.4	-131.1	Phase	-116.1
	0.1	0.2	0.2	0.2	0.3	0.2	0.1	0.1	Ampl.	0.1
	315.9	190.3	140.6	196.7	59.5	133.8	425.2	261.2	Sbd box	59.9
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	
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	PC amp	
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) 3.31771502940E+02 Apriori delay (usec) 3.32544087045E+02 Resid mbdelay (usec) -6.95910E-03 +/- 2.0E-04
 Sband delay (usec) 3.31774197795E+02 Apriori clock (usec) -2.8895475E+01 Resid sbdelay (usec) -7.69889E-01 +/- 1.5E-03
 Phase delay (usec) 3.32544079569E+02 Apriori clockrate (us/s) -7.3949380E-06 Resid phdelay (usec) -7.47564E-06 +/- 1.3E-06
 Delay rate (us/s) 2.78899865710E-02 Apriori rate (us/s) 2.78924994678E-02 Resid rate (us/s) -2.51290E-06 +/- 1.3E-08
 Total phase (deg) -349.2 Apriori accel (us/s/s) 9.12356237390E-08 Resid phase (deg) -318.6 +/- 20.6

ph/seg (deg) RMS Theor. Amplitude 0.153 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 40.8 48.3 Search (1024X32) 0.149 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 67.6 84.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.6 29.1 Inc. seg. avg. 0.137 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 44.8 50.8 Inc. frq. avg. 0.146 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

L: az 291.7 el 45.5 pa 73.5 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -103.783 98.880 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Lu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Lu.Q.23.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

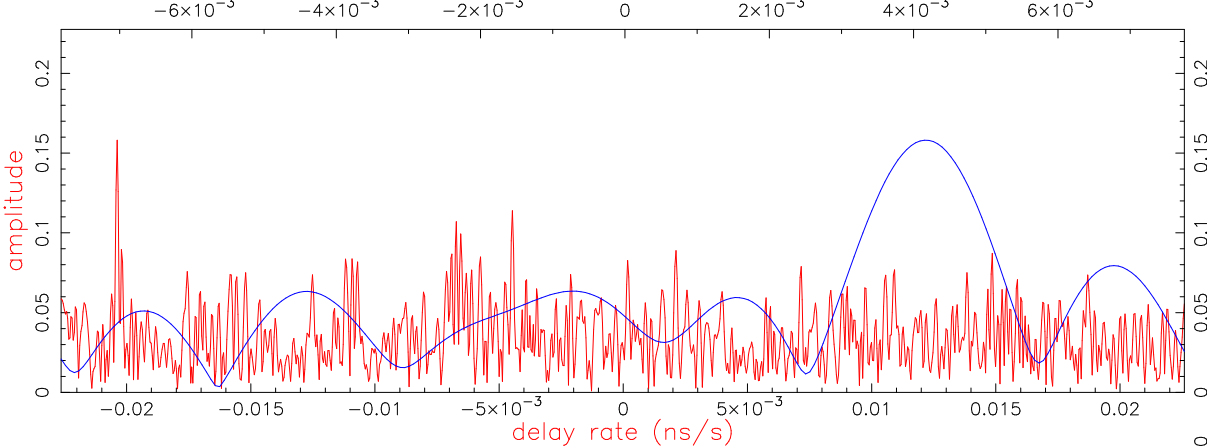
aux01

3C345.3MP1HX, No0399, Lu

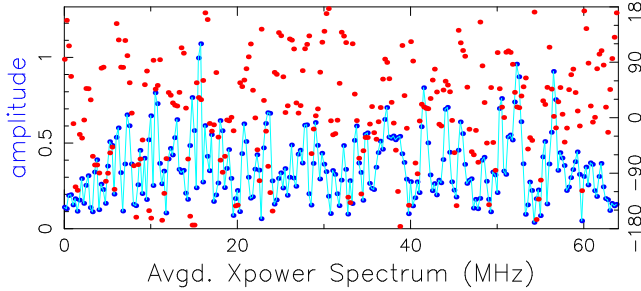
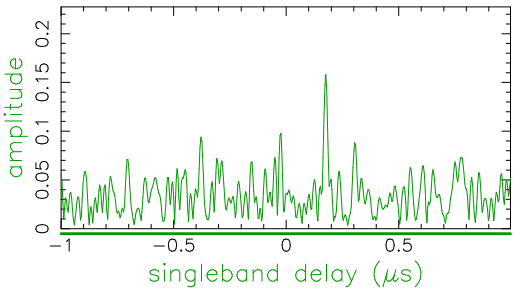
KVNPC - KVNUS, fgroup Q, pol LR

multiband delay (μ s)

Fringe quality 0

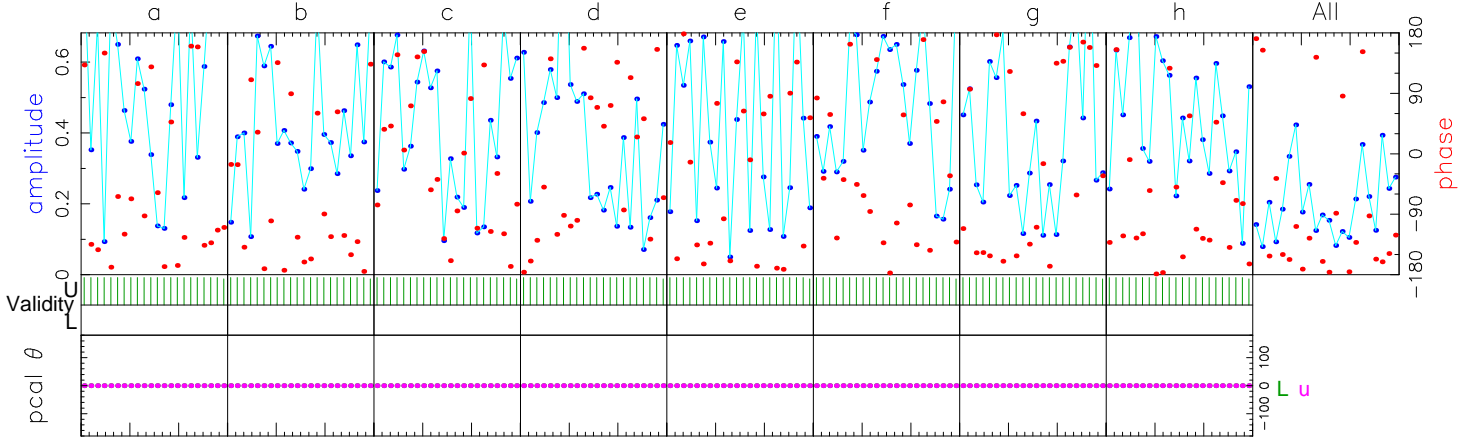


SNR 5.8
 Int time 179.833
 Amp 0.228
 Phase 275.9
 PFD 5.6e-01
 Delays (us)
 SBD 0.175470
 MBD 0.004162
 Fringe rate (Hz) -0.884428
 Ion TEC 0.000
 Ref freq (MHz) 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145509
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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		
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	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) 3.32720123775E+02 Apriori delay (usec) 3.32544087045E+02 Resid mbdelay (usec) 4.16173E-03 +/- 1.9E-04
 Sband delay (usec) 3.32719556795E+02 Apriori clock (usec) -2.8895475E+01 Resid sbdelay (usec) 1.75470E-01 +/- 1.5E-03
 Phase delay (usec) 3.32544077284E+02 Apriori clockrate (us/s) -7.3949380E-06 Resid phdelay (usec) -9.76052E-06 +/- 1.3E-06
 Delay rate (us/s) 2.78719981163E-02 Apriori rate (us/s) 2.78924994678E-02 Resid rate (us/s) -2.05014E-05 +/- 1.2E-08
 Total phase (deg) 245.4 Apriori accel (us/s/s) 9.12356237390E-08 Resid phase (deg) 275.9 +/- 19.7

ph/seg (deg) 49.2 46.3 Amplitude 0.228 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.2 80.8 Search (1024X32) 0.153 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.6 27.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.8 48.7 Inc. seg. avg. 0.221 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 Inc. frq. avg. 0.217 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

L: az 291.7 el 45.5 pa 73.5 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -103.783 98.880 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Lu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Lu.Q.38.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

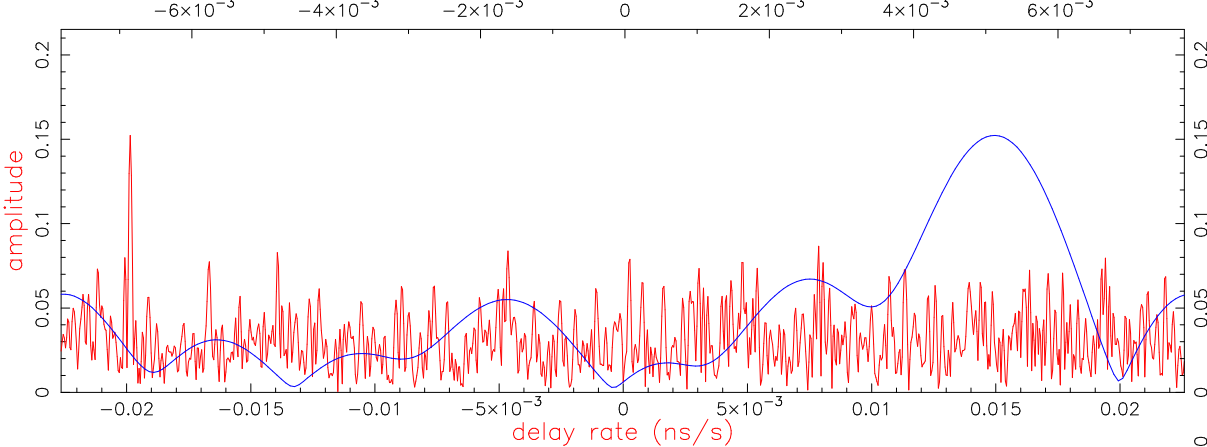
aux01

3C345.3MP1HX, No0399, Lu

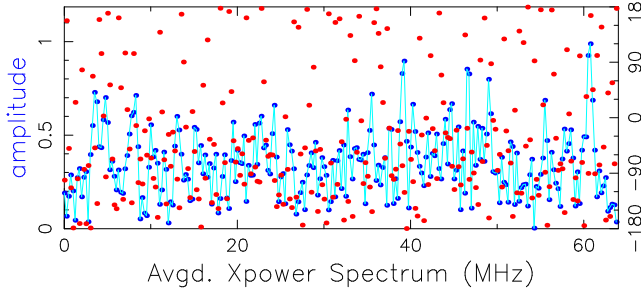
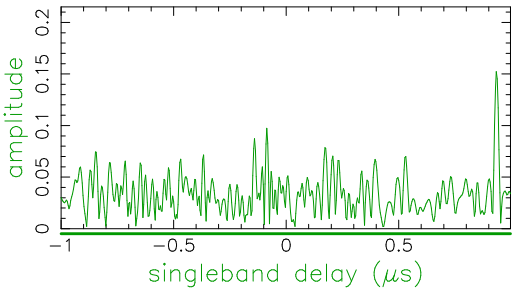
KVNPC - KVNUS, fgroup Q, pol RL

multiband delay (μ s)

Fringe quality 0

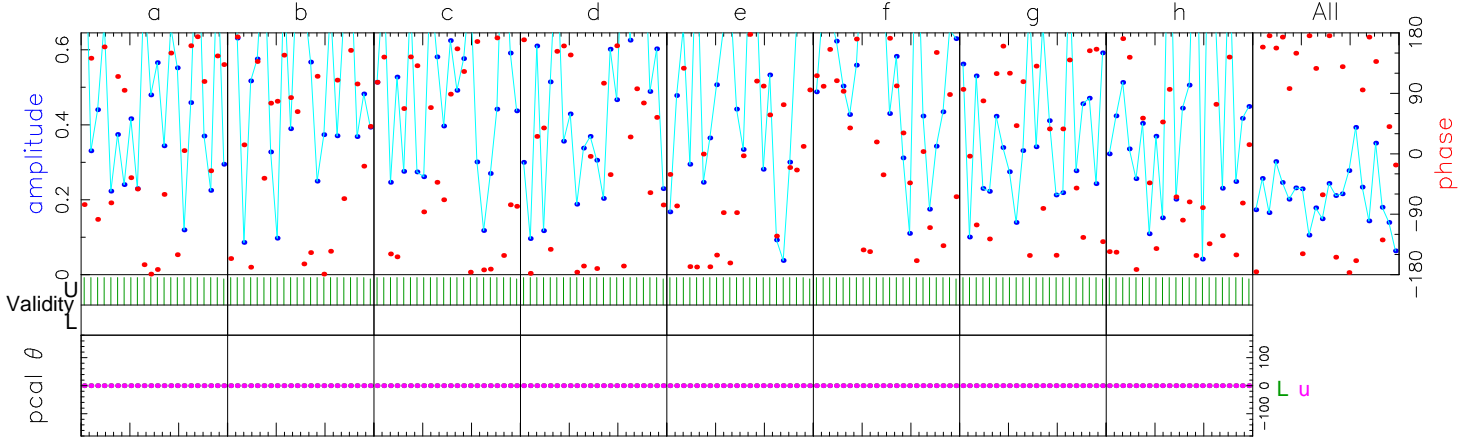


SNR 5.6
 Int time 179.833
 Amp 0.215
 Phase 233.5
 PFD 9.2e-01
 Delays (us)
 SBD 0.934368
 MBD 0.005108
 Fringe rate (Hz)
 -0.860179
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145511
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-175.6	161.8	167.2	120.8	174.6	143.0	169.2	-165.9	Phase	166.0
	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	22.2	498.4	494.8	230.0	448.9	16.0	450.4	339.5	Sbd box	496.2
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	
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	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	3.33471070325E+02	Apriori delay (usec)	3.32544087045E+02	Resid mbdelay (usec)	5.10828E-03	+/-	1.9E-04
Sband delay (usec)	3.33478454795E+02	Apriori clock (usec)	-2.8895475E+01	Resid sbdelay (usec)	9.34368E-01	+/-	1.5E-03
Phase delay (usec)	3.32544097733E+02	Apriori clockrate (us/s)	-7.3949380E-06	Resid phdelay (usec)	1.06881E-05	+/-	1.3E-06
Delay rate (us/s)	2.78725602227E-02	Apriori rate (us/s)	2.78924994678E-02	Resid rate (us/s)	-1.99392E-05	+/-	1.3E-08
Total phase (deg)	202.9	Apriori accel (us/s/s)	9.12356237390E-08	Resid phase (deg)	233.5	+/-	20.5

ph/seg (deg)	63.1	RMS	48.0	Theor.	Amplitude	0.215 +/- 0.038	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	63.0	Search (1024X32)	0.151	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	25.2	Inc. seg. avg.	0.223	Inc. frq. avg.	0.204	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	31.0	Inc. frq. avg.	0.204	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 291.7 el 45.5 pa 73.5 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -103.783 98.880 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Lu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Lu.Q.53.3MP1HX

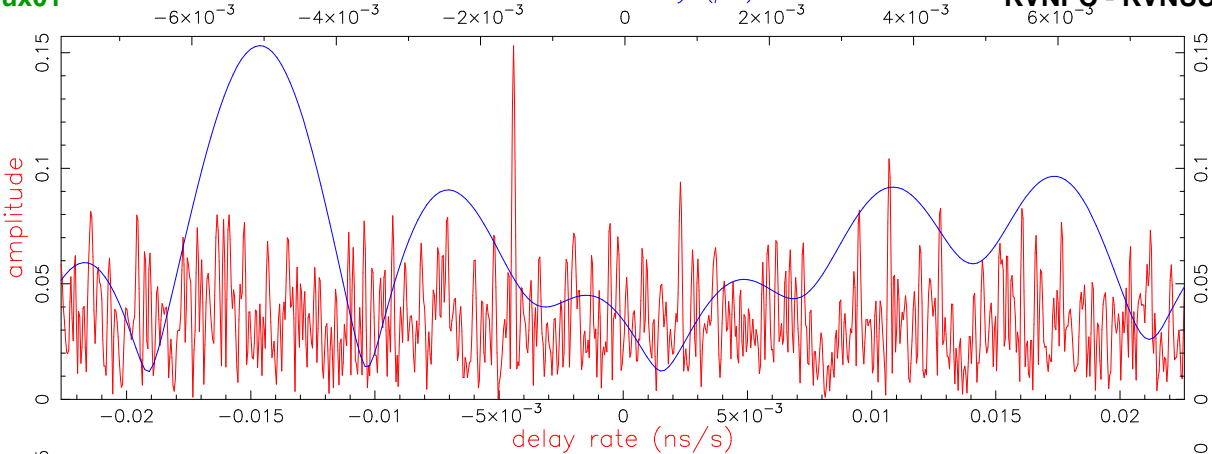
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, Lu

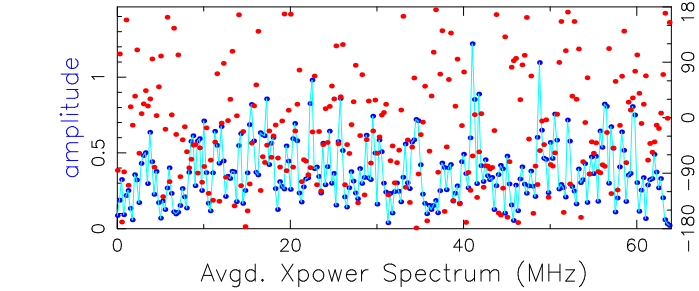
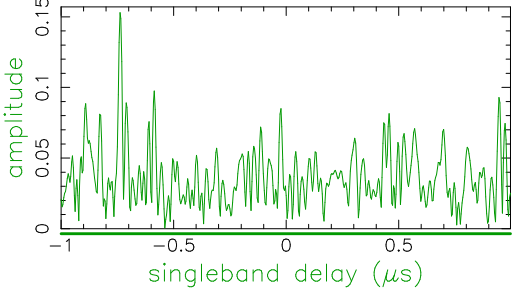
KVNPC - KVNUS, fgroup Q, pol LL

multiband delay (μ s)



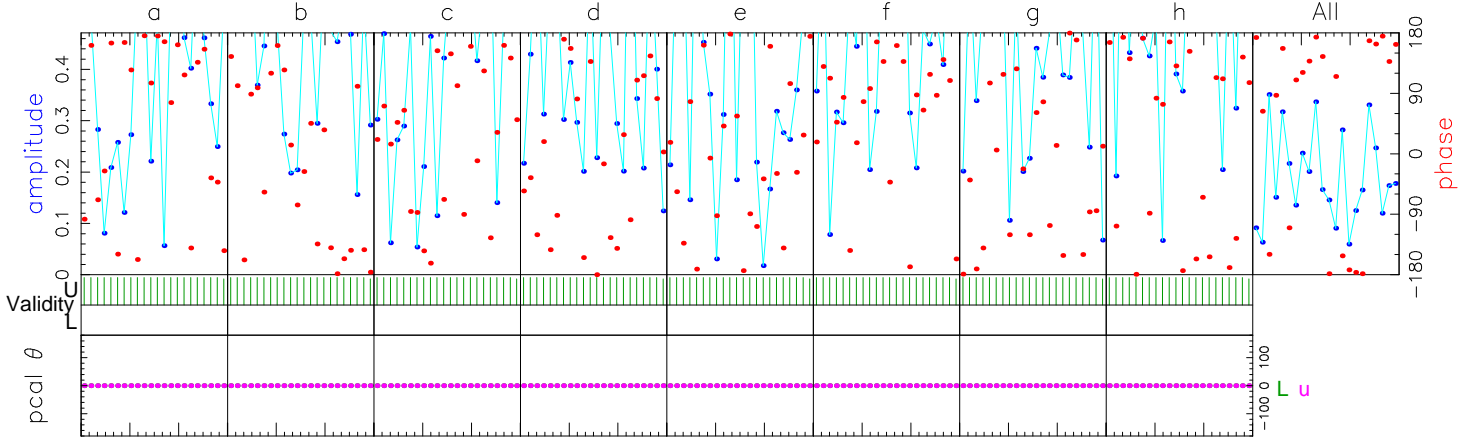
Fringe quality 0

SNR 5.7
 Int time 179.833
 Amp 0.157
 Phase -351.4
 PFD 8.3e-01
 Delays (us)
 SBD -0.736942
 MBD -0.005040
 Fringe rate (Hz)
 -0.190886
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145505
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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		
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	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	3.31804671729E+02	Apriori delay (usec)		3.32544087045E+02	Resid mbdelay (usec)		-5.04032E-03	+/-	1.9E-04	
Sband delay (usec)	3.31807145045E+02	Apriori clock (usec)		-2.8895475E+01	Resid sbdelay (usec)		-7.36942E-01	+/-	1.5E-03	
Phase delay (usec)	3.32544097743E+02	Apriori clockrate (us/s)		-7.3949380E-06	Resid phdelay (usec)		1.06980E-05	+/-	1.3E-06	
Delay rate (us/s)	2.78880746710E-02	Apriori rate (us/s)		2.78924994678E-02	Resid rate (us/s)		-4.42480E-06	+/-	1.3E-08	
Total phase (deg)		-21.9	Apriori accel (us/s/s)		9.12356237390E-08	Resid phase (deg)		-351.4	+/-	20.2

ph/seg (deg)	42.2	Theor. 47.4	Amplitude	0.157 +/- 0.028	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
amp/seg (%)	61.1	82.7	Search (1024X32)	0.147	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	39.2	28.6	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	66.0	49.9	Inc. seg. avg.	0.144	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.023 0.023	
			Inc. frq. avg.	0.161	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

L: az 291.7 el 45.5 pa 73.5 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) -103.783 98.880 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/Lu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/Lu.Q.7.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

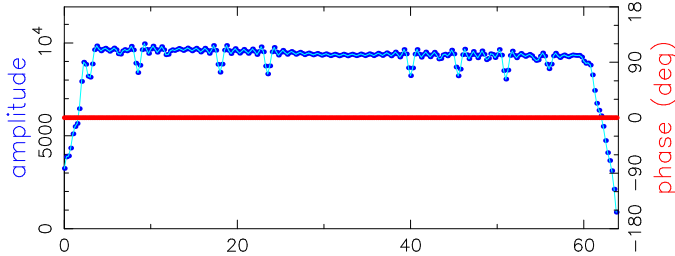
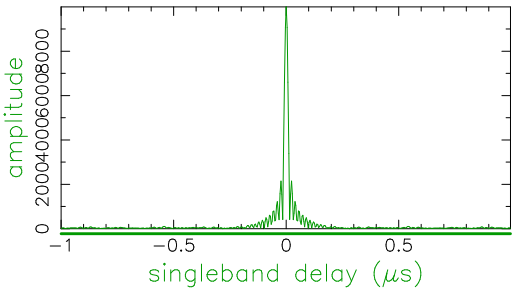
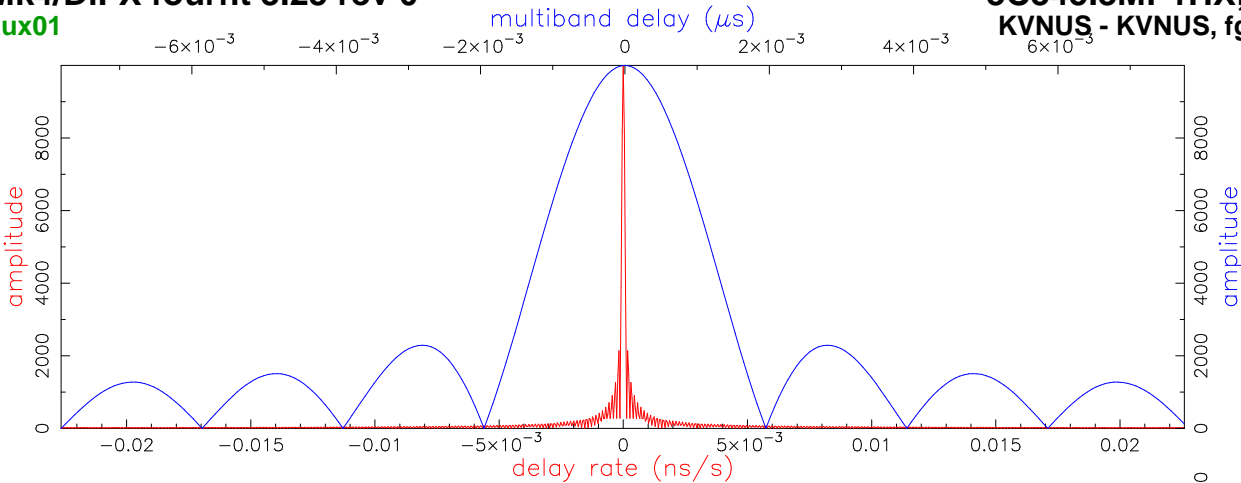
aux01

3C345.3MP1HX, No0399, uu

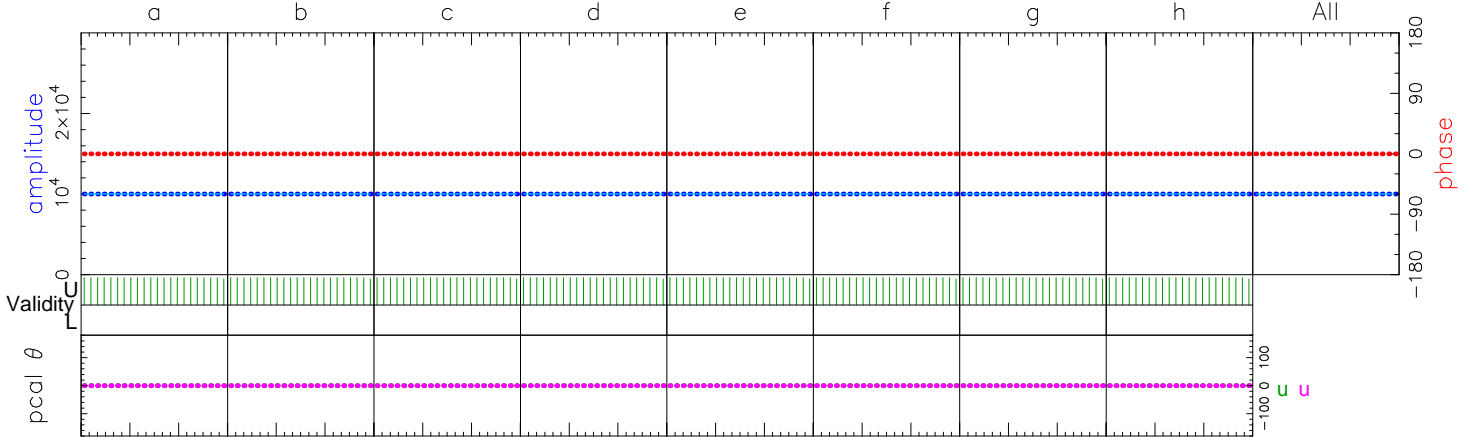
KVNU₃ - KVNU₅, fgroup Q, pol RR

Fringe quality 9

SNR 366718.4
 Int time 179.833
 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 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145507
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



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		
u	0	24000	0	0	32000	0	0	40000	Ampl.	10000.0
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	PC phase	
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									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

	RMS	Theor.	Amplitude	9999.999 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	0.0	0.0	Search (1024X32)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023	0.023	
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.999	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

u: az 293.7 el 44.1 pa 75.7 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

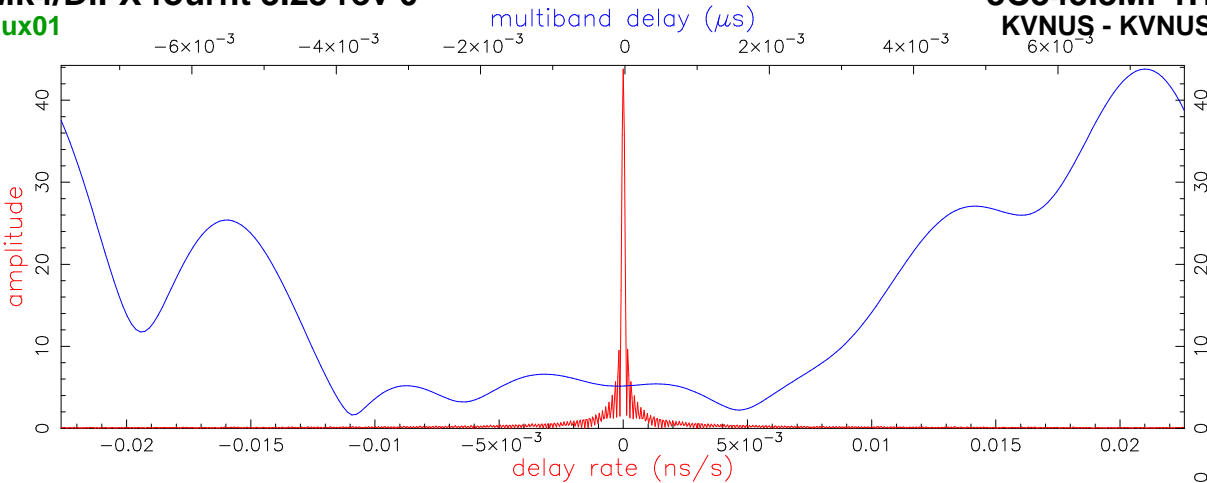
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uu...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uu.Q.22.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

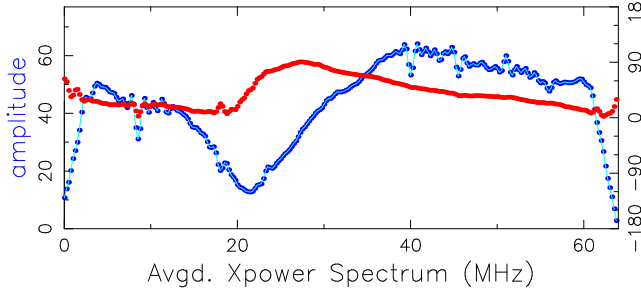
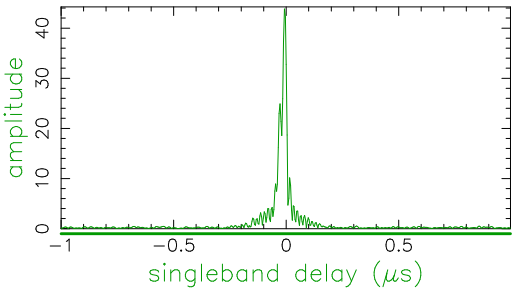
aux01

3C345.3MP1HX, No0399, uu

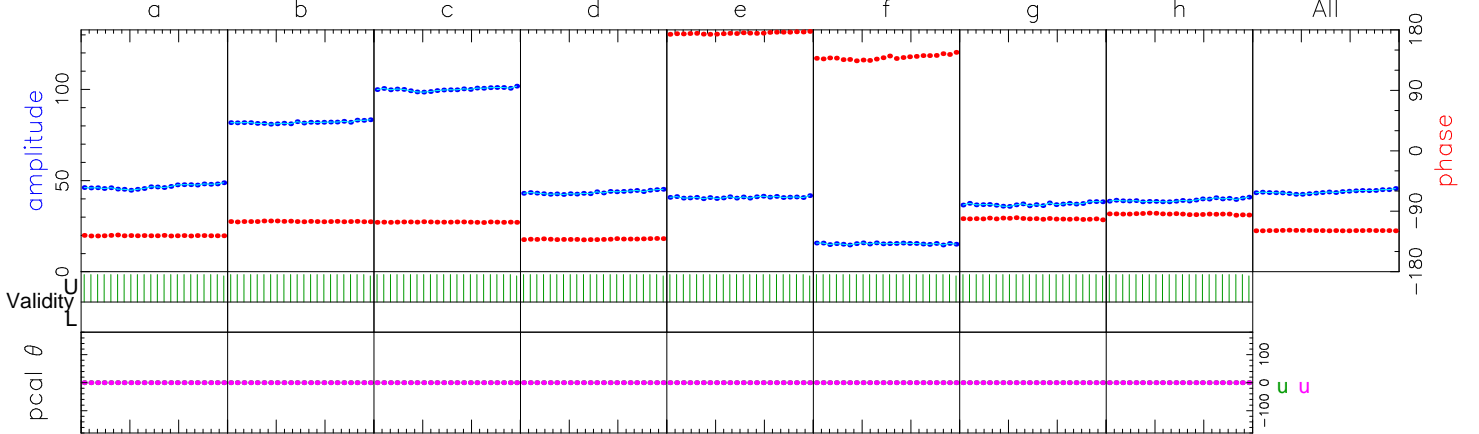
KVNU\$ - KVNU\$, fgroup Q, pol LR



Fringe quality 5
 Error code G
 SNR 1622.5
 Int time 179.833
 Amp 44.245
 Phase -321.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.006562
 MBD 0.007223
 Fringe rate (Hz)
 -0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145509
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



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
	-126.3	-105.2	-106.2	-131.5	175.1	138.9	-101.2	-94.2	Phase	-118.7
	46.6	82.0	100.1	43.6	40.8	15.3	37.1	39.3	Ampl.	50.6
	250.8	255.9	255.1	253.1	256.1	252.1	254.0	252.6	Sbd box	255.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Chan ids	
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	-8.402281250000E-03	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	7.22272E-03	+/-	6.7E-07
Sband delay (usec)	-6.562250000000E-03	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	-6.56225E-03	+/-	5.3E-06
Phase delay (usec)	-7.64193959850E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-7.64194E-06	+/-	4.5E-09
Delay rate (us/s)	-2.82963158790E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	-2.82963E-10	+/-	4.4E-11
Total phase (deg)		Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-321.2	+/-	0.1

ph/seg (deg)	0.2	Theor.	Amplitude	44.245 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	2.1	0.2	Search (1024X32)	43.567	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	52.2	0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	59.1	0.2	Inc. seg. avg.	43.796	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.023	0.023
u: az 293.7 el 44.1 pa 75.7		u: az 293.7 el 44.1 pa 75.7		u,v (fr/asec) 0.000	0.000	ion window (TEC)	0.00	0.00	simultaneous interpolator

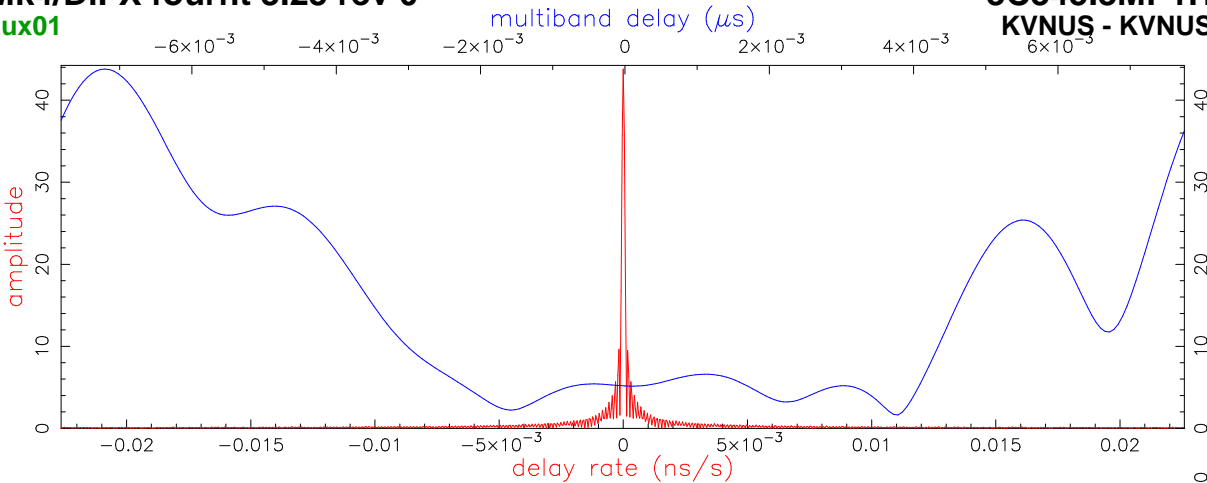
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uu.Q.37.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

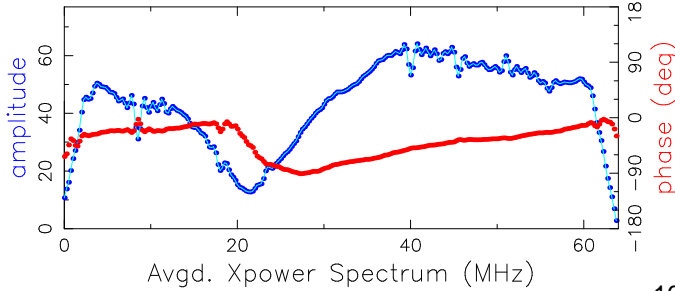
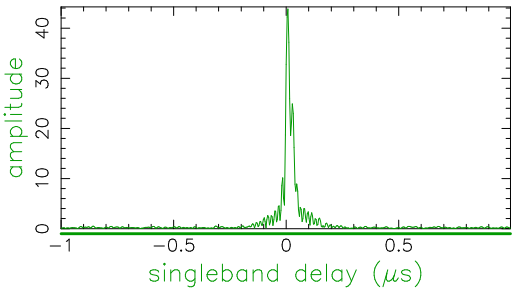
aux01

3C345.3MP1HX, No0399, uu

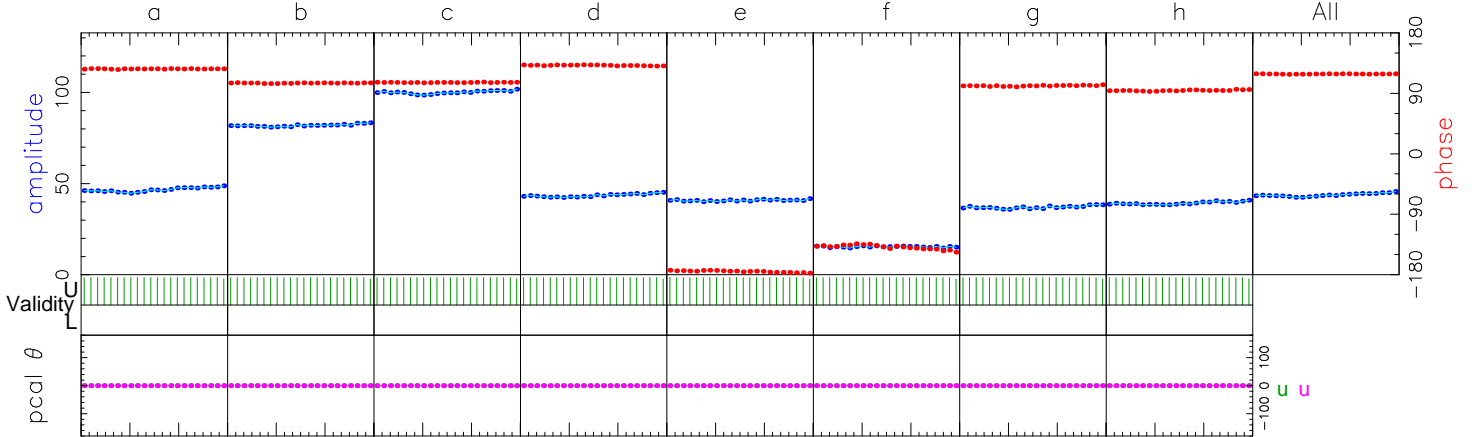
KVNU\$ - KVNU\$, fgroup Q, pol RL



Fringe quality 5
 Error code G
 SNR 1622.5
 Int time 179.833
 Amp 44.245
 Phase 321.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.006562
 MBD -0.007223
 Fringe rate (Hz)
 0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145510
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"



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		
u	0	24000	0	0	32000	0	0	40000	PC freqs	
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD)	8.40228125000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.22272E-03	+/-	6.7E-07
Sband delay (usec)	6.56225000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	6.56225E-03	+/-	5.3E-06
Phase delay (usec)	7.64193959850E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.64194E-06	+/-	4.5E-09
Delay rate (us/s)	2.82963158790E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.82963E-10	+/-	4.4E-11
Total phase (deg)	321.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	321.2	+/-	0.1

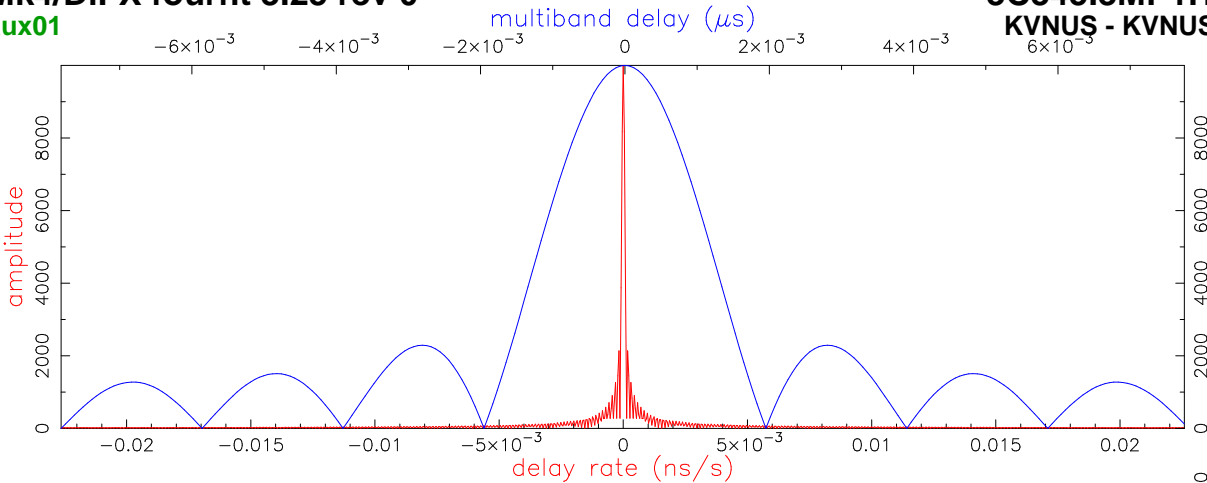
ph/seg (deg) 0.2 0.2 Search (1024X32) 43.567 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.1 0.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.2 0.1 Inc. seg. avg. 43.796 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 59.1 0.2 Inc. frq. avg. 50.594 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 u: az 293.7 el 44.1 pa 75.7 u: az 293.7 el 44.1 pa 75.7 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
 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uu...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uu.Q.51.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

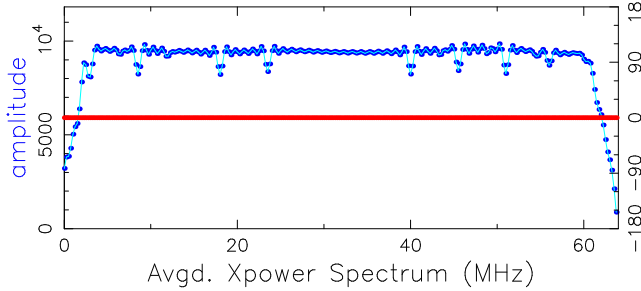
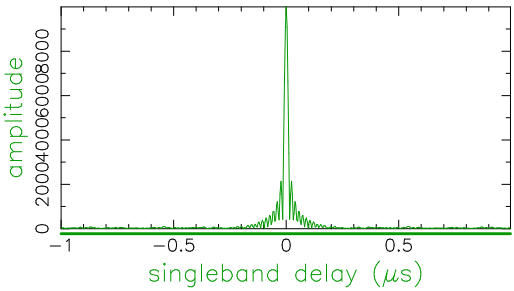
3C345.3MP1HX, No0399, uu

KVNUŞ - KVNUŞ, fgroup Q, pol LL



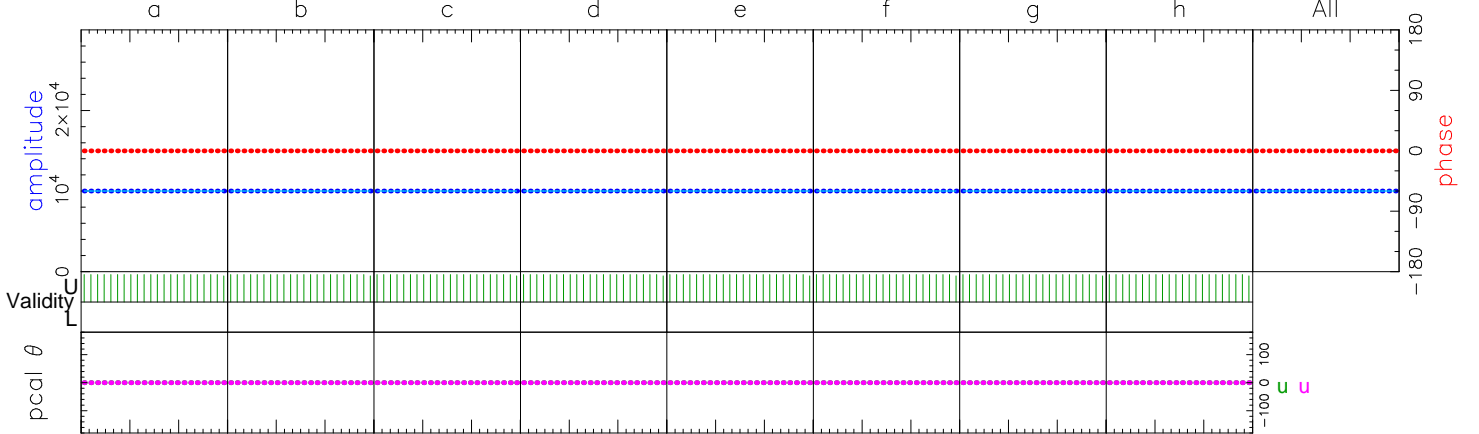
Fringe quality 9

SNR 366718.4
 Int time 179.833
 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 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145505
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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

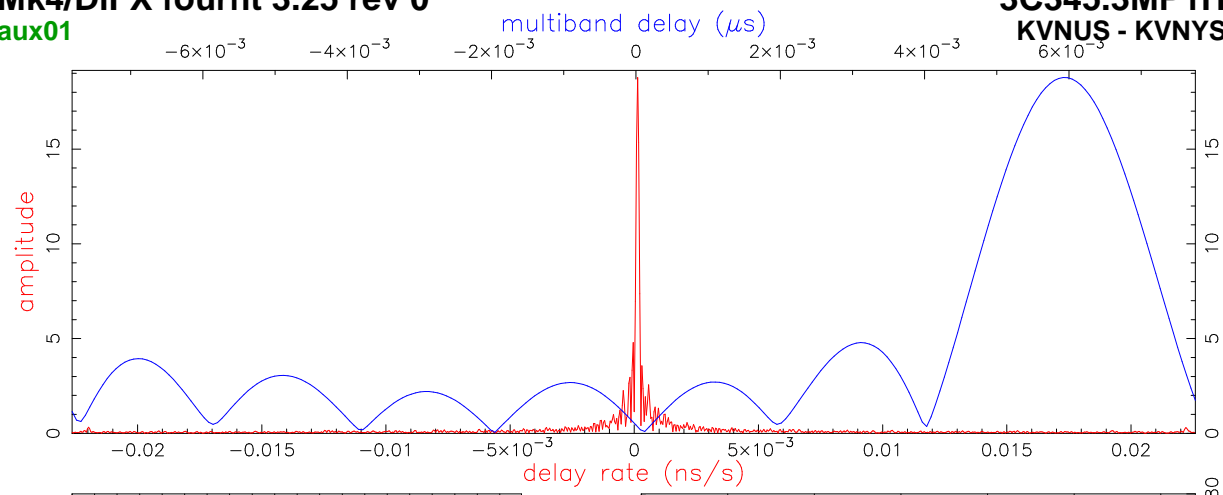


	42912.00	42976.00	43040.00	43104.00	43168.00	43232.00	43296.00	43360.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
u	0	24000	0	0	32000	0	0	40000	Ampl.	10000.0
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
u:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	PC phase	
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Tracks	

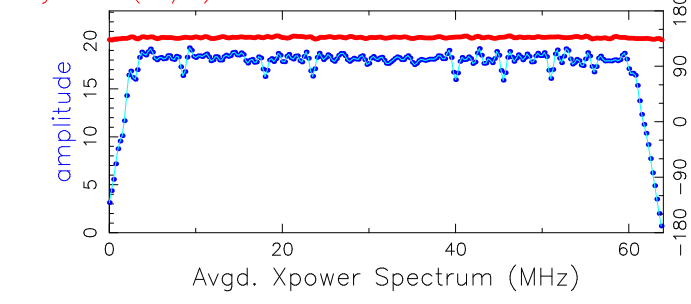
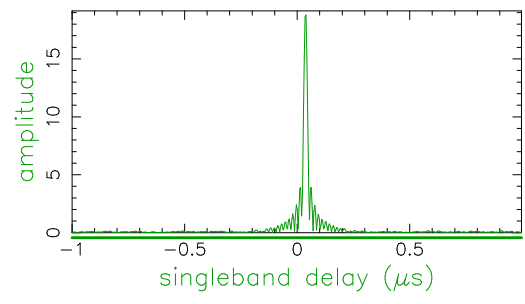
Group delay (usec) (SBD) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 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

RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 u: az 293.7 el 44.1 pa 75.7 u: az 293.7 el 44.1 pa 75.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

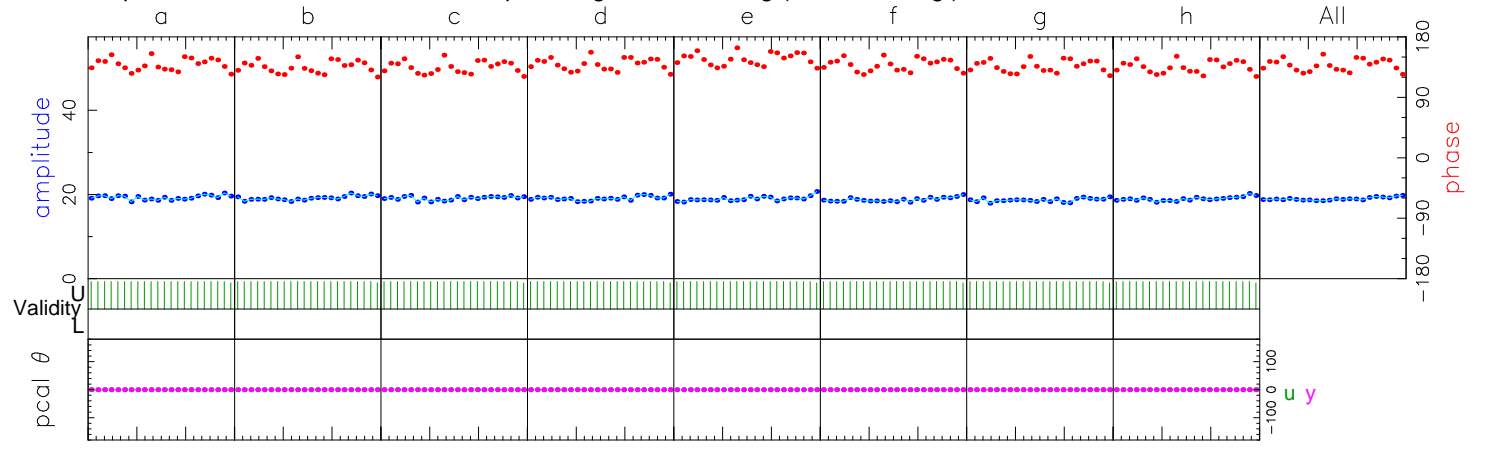
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uu..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uu.Q.8.3MP1HX



Fringe quality 9
SNR 702.3
Int time 179.821
Amp 19.151
Phase 183.1
PFD 0.0e+00
Delays (us)
SBD 0.037278
MBD 0.005941
Fringe rate (Hz) 0.005437
Ion TEC 0.000
Ref freq (MHz) 43140.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:112
Start 220000.00
Stop 220300.23
FRT 220130.00
Corr/FF/build
2024:316:155049
2025:042:145506
2024:113:095956
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"



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		
u	0	24000	0	0	32000	0	0	40000	PC freqs	
y	0	24000	0	0	32000	0	0	40000	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	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)	-6.56829759175E+02				-6.56866950141E+02				Resid mbdelay (usec)	5.94097E-03 +/- 1.5E-06
Sband delay (usec)	-6.56829672641E+02				-5.0831814E+00				Resid sbdelay (usec)	3.72775E-02 +/- 1.2E-05
Phase delay (usec)	-6.56866941251E+02				2.0599841E-08				Resid phdelay (usec)	8.88987E-06 +/- 1.1E-08
Delay rate (us/s)	-4.16506451781E-02				-4.16507712042E-02				Resid rate (us/s)	1.26026E-07 +/- 1.0E-10
Total phase (deg)		100.6			1.42392544301E-06				Resid phase (deg)	183.1 +/- 0.2

ph/seg (deg) 8.5 0.4 Search (1024X32) 18.631 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 2.0 0.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 4.3 0.2 Inc. seg. avg. 18.990 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 2.0 0.4 Inc. frq. avg. 18.819 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
u: az 293.7 el 44.1 pa 75.7 y: az 291.2 el 46.6 pa 74.1 u,v (fr/asec) 155.724 -51.017 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uy..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uy.Q.13.3MP1HX

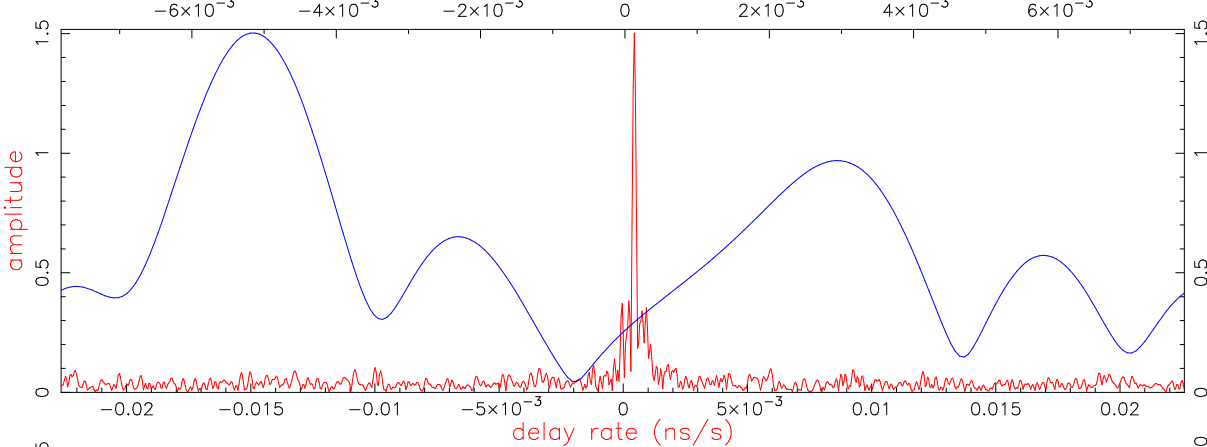
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, uY

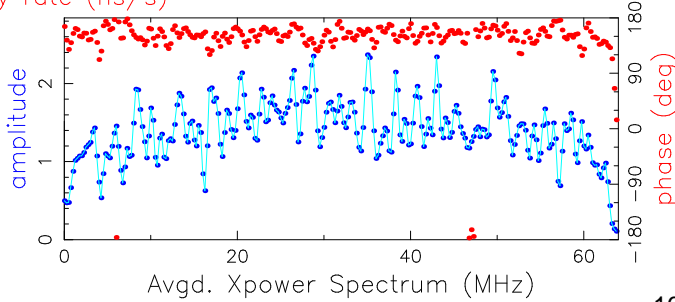
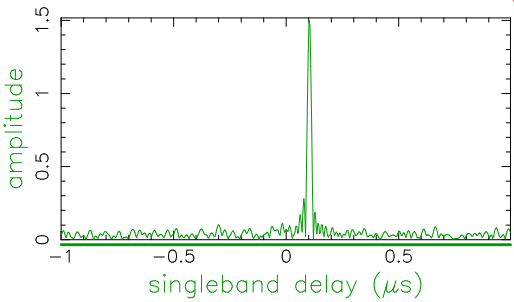
KVNUS - YEBES40M, fgroup Q, pol LL

multiband delay (μ s)



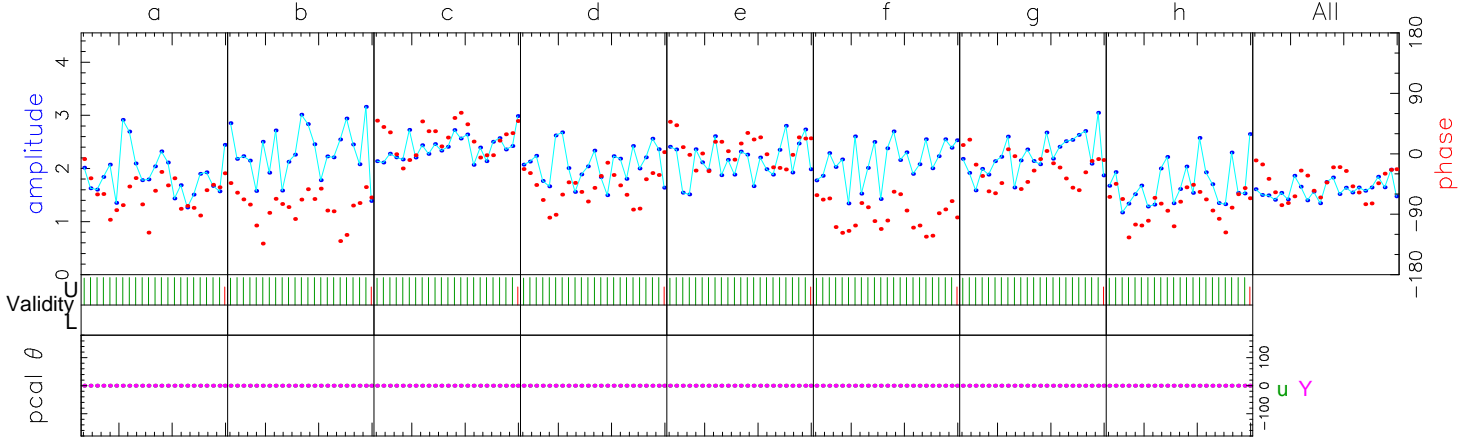
Fringe quality 5

SNR 52.8
 Int time 162.160
 Amp 1.518
 Phase 294.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.102896
 MBD -0.005118
 Fringe rate (Hz)
 0.019262
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220017.41
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145506
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-59.1	-78.2	23.5	-50.1	7.8	-91.2	-23.4	-75.7		-43.0
	1.7	2.1	2.2	1.9	2.0	2.0	2.1	1.6		1.9
	284.5	283.2	283.0	282.6	282.7	282.9	283.1	282.7		283.3
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0		
u	0	24000	0	0	32000	0	0	40000		
Y	0	0	0	0	0	0	0	0		
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	2.42025570879E+03	Apriori delay (usec)	2.42015145187E+03	Resid mbdelay (usec)	-5.11808E-03	+/-	2.1E-05
Sband delay (usec)	2.42025434837E+03	Apriori clock (usec)	1.1223283E+02	Resid sbdelay (usec)	1.02896E-01	+/-	1.6E-04
Phase delay (usec)	2.42015144910E+03	Apriori clockrate (us/s)	1.0884720E-06	Resid phdelay (usec)	-2.77129E-06	+/-	1.4E-07
Delay rate (us/s)	-1.70311601546E+00	Apriori rate (us/s)	-1.70311646197E+00	Resid rate (us/s)	4.46505E-07	+/-	1.5E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.72152771379E-05	Resid phase (deg)	294.5	+/-	2.2

ph/seg (deg)	20.9	RMS	20.9	Theor.	5.2	Amplitude	1.518 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	12.0		12.0		9.1	Search (1024X32)	1.471	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	45.3		45.3		3.1	Inc. seg. avg.	1.600	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	31.1		31.1		5.4	Inc. frq. avg.	1.946	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

u: az 293.7 el 44.1 pa 75.7 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 6346.038 -841.523 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uY..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uY.Q.15.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

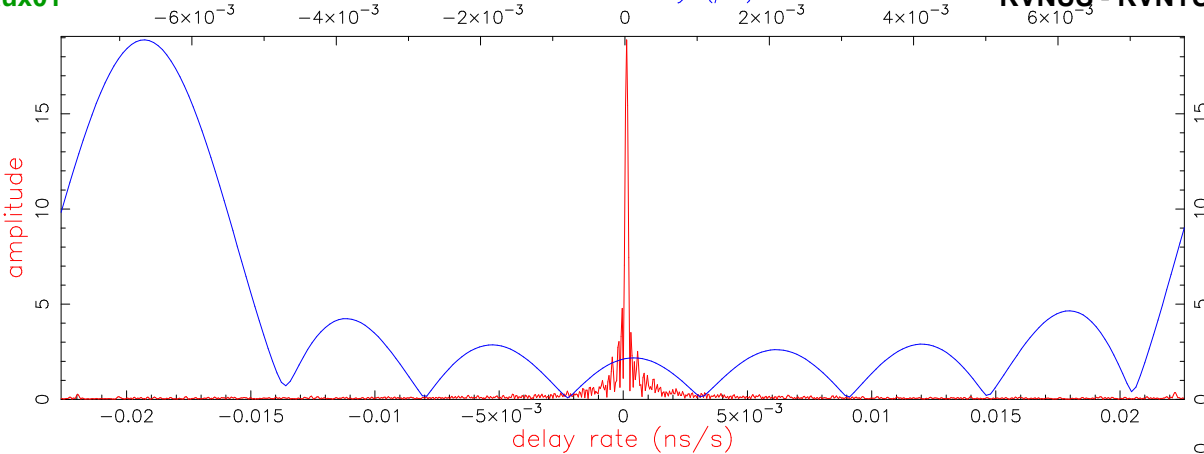
aux01

3C345.3MP1HX, No0399, uy

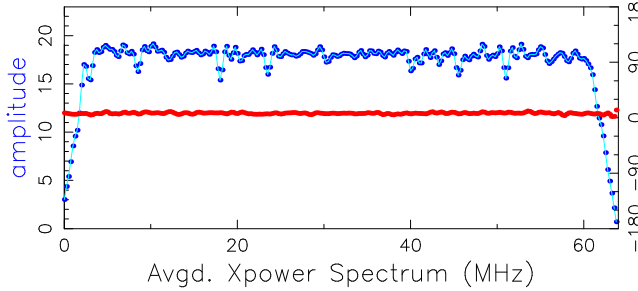
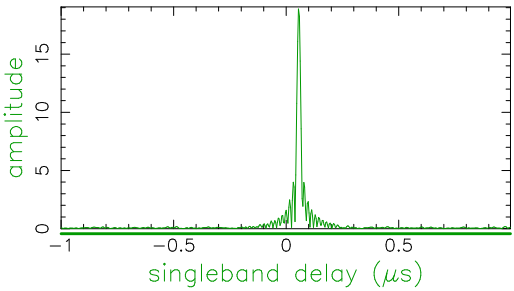
KVNUJ - KVNYS, fgroup Q, pol RR

multiband delay (μ s)

Fringe quality 9

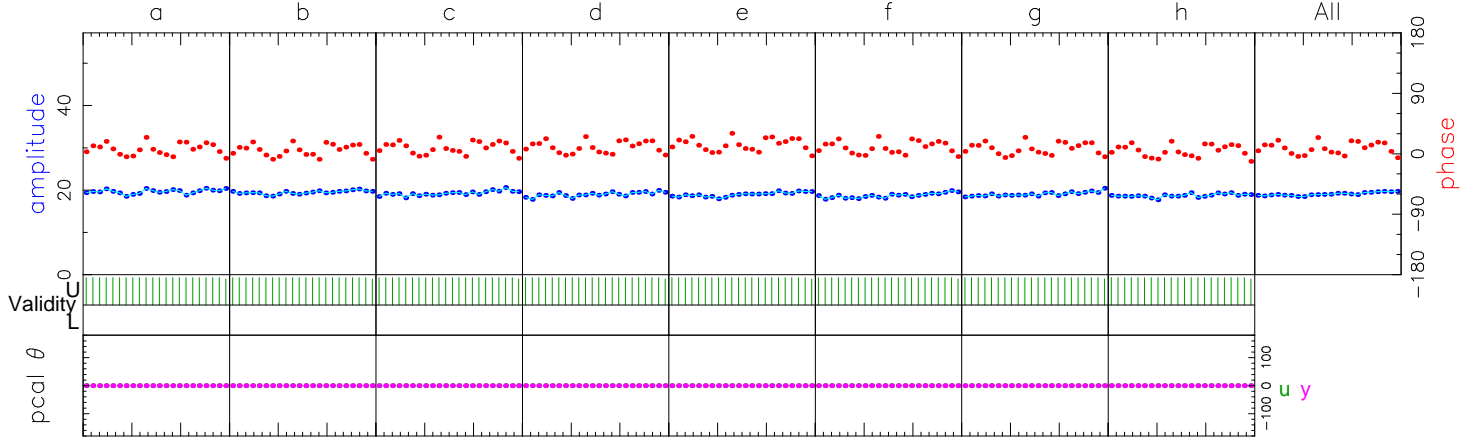


SNR 699.2
 Int time 179.821
 Amp 19.068
 Phase 98.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.055941
 MBD -0.006663
 Fringe rate (Hz)
 0.005433
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145507
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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		
u	0	24000	0	0	32000	0	0	40000	APs used	
y	0	24000	0	0	32000	0	0	40000	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	-6.5681113394E+02	Apriori delay (usec)	-6.56866950141E+02	Resid mbdelay (usec)	-6.66325E-03	+/-	1.6E-06
Sband delay (usec)	-6.56811008891E+02	Apriori clock (usec)	-5.0831814E+00	Resid sbdelay (usec)	5.59413E-02	+/-	1.2E-05
Phase delay (usec)	-6.56866949603E+02	Apriori clockrate (us/s)	2.0599841E-08	Resid phdelay (usec)	5.38118E-07	+/-	1.1E-08
Delay rate (us/s)	-4.16506452743E-02	Apriori rate (us/s)	-4.16507712042E-02	Resid rate (us/s)	1.25930E-07	+/-	1.0E-10
Total phase (deg)	15.9	Apriori accel (us/s/s)	1.42392544301E-06	Resid phase (deg)	98.4	+/-	0.2

ph/seg (deg)	8.5	Theor.	Amplitude	19.068 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	2.0	0.4	Search (1024X32)	18.563	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	3.2	0.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	1.9	0.4	Inc. seg. avg.	19.096	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
			Inc. frq. avg.	18.907	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

u: az 293.7 el 44.1 pa 75.7 y: az 291.2 el 46.6 pa 74.1 u,v (fr/asec) 155.724 -51.017 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uy..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uy.Q.26.3MP1HX

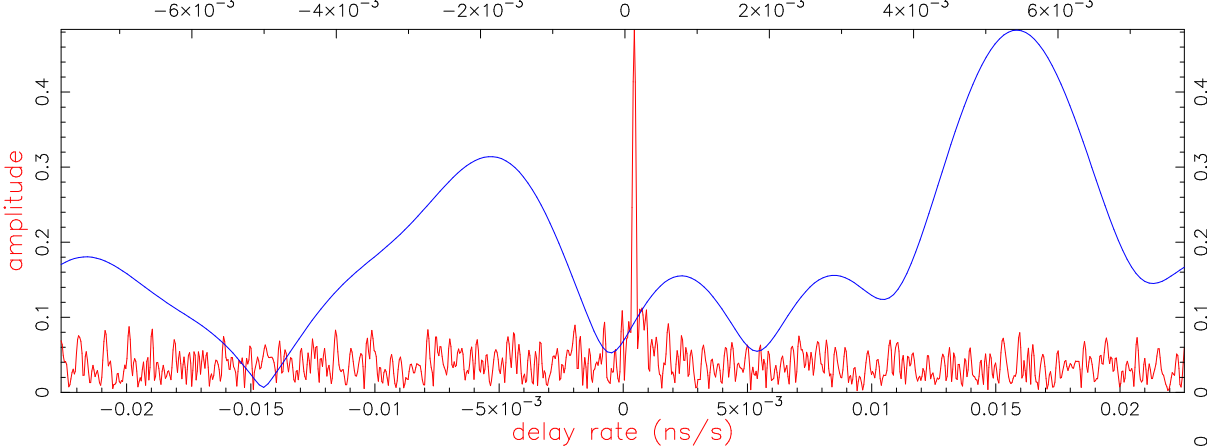
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, uY

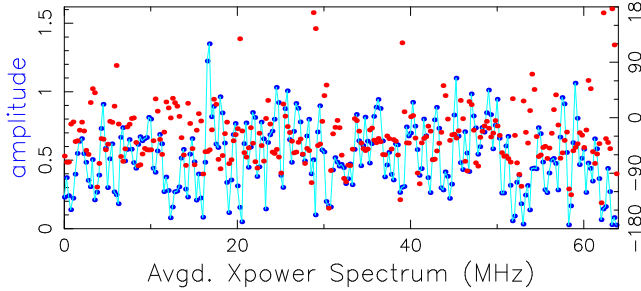
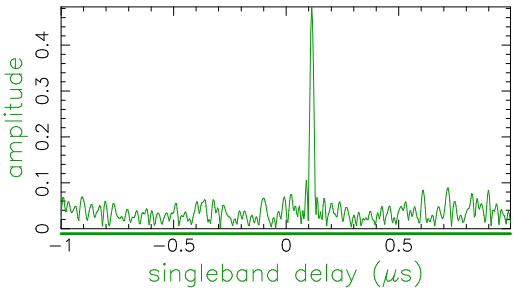
KVNUS - YEBES40M, fgroup Q, pol RR

multiband delay (μ s)



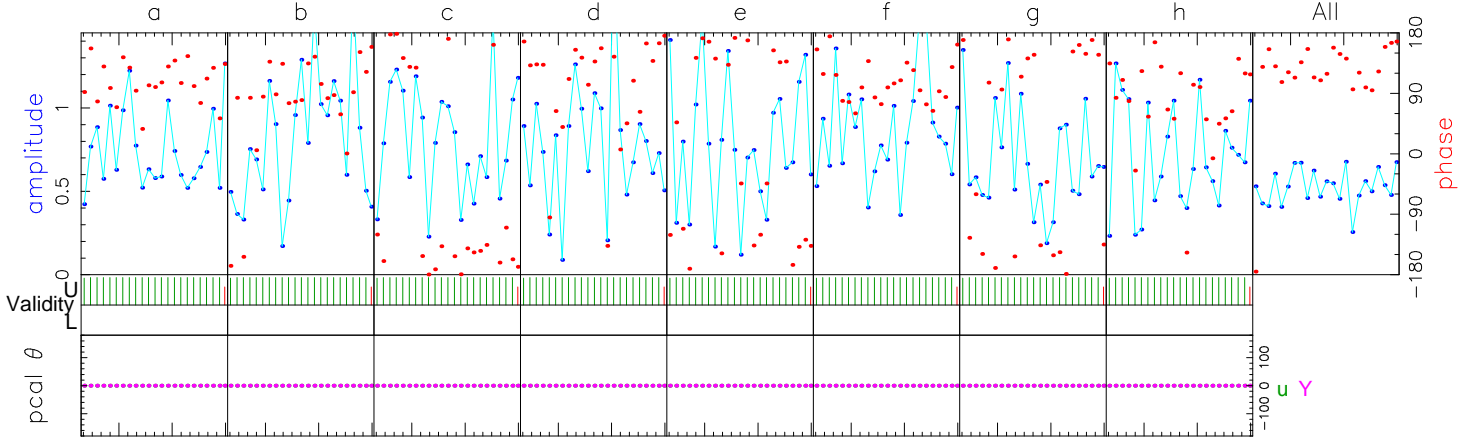
Fringe quality 8

SNR 16.8
 Int time 162.160
 Amp 0.484
 Phase 109.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.113839
 MBD 0.005440
 Fringe rate (Hz)
 0.018771
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220017.41
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145508
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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	110.9	99.8	-171.8	131.4	-172.1	101.5	172.2	87.0	Phase	132.3
u	0.7	0.6	0.7	0.6	0.6	0.8	0.5	0.5	Ampl.	0.6
Y	287.5	285.2	285.7	285.2	285.0	285.8	285.7	286.1	Sbd box	286.1
u	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
Y	0	24000	0	0	32000	0	0	40000	PC freqs	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
Y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Tracks	

Group delay (usec) (SBD)	2.42026626663E+03	Apriori delay (usec)	2.42015145187E+03	Resid mbdelay (usec)	5.43976E-03	+/-	6.4E-05
Sband delay (usec)	2.42026529062E+03	Apriori clock (usec)	1.1223283E+02	Resid sbdelay (usec)	1.13839E-01	+/-	5.1E-04
Phase delay (usec)	2.42015146039E+03	Apriori clockrate (us/s)	1.0884720E-06	Resid phdelay (usec)	8.51807E-06	+/-	4.4E-07
Delay rate (us/s)	-1.70311602684E+00	Apriori rate (us/s)	-1.70311646197E+00	Resid rate (us/s)	4.35124E-07	+/-	4.7E-09
Total phase (deg)	337.9	Apriori accel (us/s/s)	-1.72152771379E-05	Resid phase (deg)	109.8	+/-	6.8

ph/seg (deg)	24.6	RMS	24.6	Theor.	16.3	Amplitude	0.484 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	23.2	Search (1024X32)	0.479	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	45.3	Inc. seg. avg.	0.507	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
amp/frq (%)	32.5	Inc. frq. avg.	0.609									

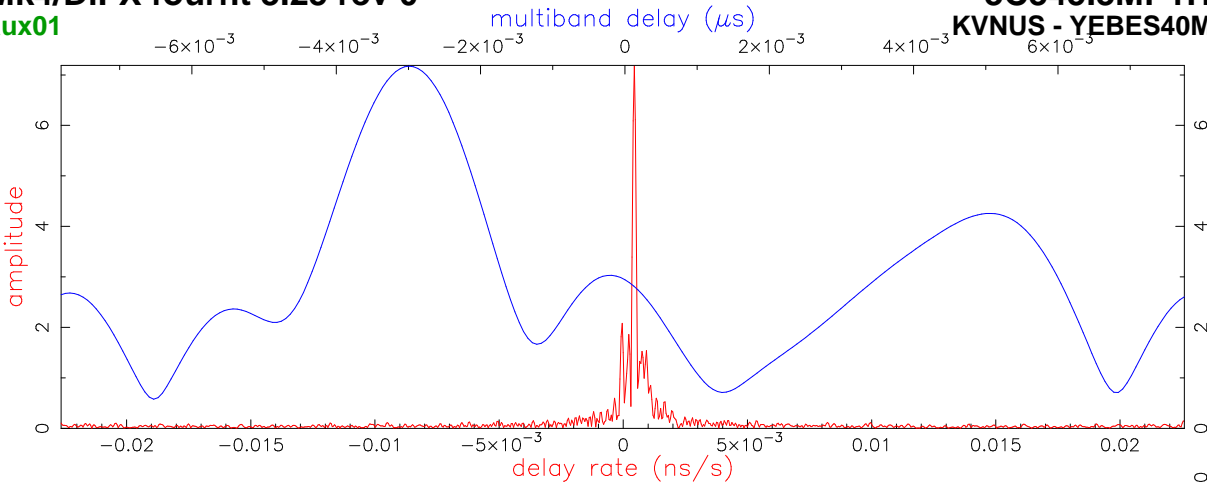
u: az 293.7 el 44.1 pa 75.7 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 6346.038 -841.523 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uY...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uY.Q.29.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

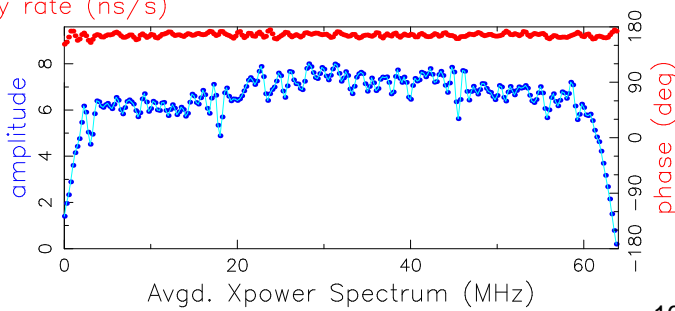
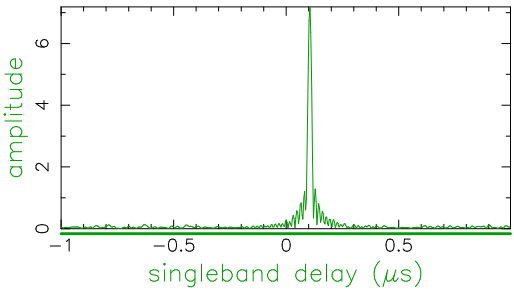
3C345.3MP1HX, No0399, uY

KVNUS - YEBES40M, fgroup Q, pol LR



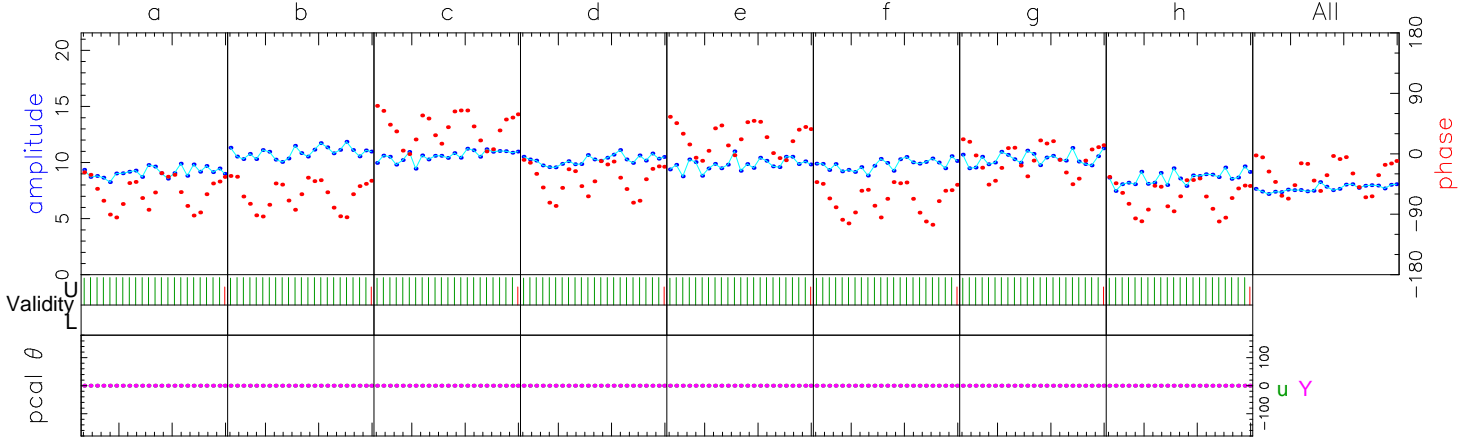
Fringe quality 5

SNR 250.3
 Int time 162.160
 Amp 7.189
 Phase 306.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.104863
 MBD -0.003003
 Fringe rate (Hz)
 0.019189
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Yr:day 1234
 Start 220017.41
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145509
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-57.7	-61.4	38.5	-37.7	22.7	-69.0	-8.2	-64.8	Phase	-30.9
	8.5	10.2	9.8	9.5	9.2	9.1	9.6	8.0	Ampl.	9.2
	285.1	283.7	283.5	283.3	283.1	283.4	283.5	283.7	Sbd box	283.8
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
u	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) 2.42025782382E+03 Apriori delay (usec) 2.42015145187E+03 Resid mbdelay (usec) -3.00305E-03 +/- 4.3E-06
 Sband delay (usec) 2.42025631487E+03 Apriori clock (usec) 1.1223283E+02 Resid sbdelay (usec) 1.04863E-01 +/- 3.4E-05
 Phase delay (usec) 2.42015144988E+03 Apriori clockrate (us/s) 1.0884720E-02 Resid phdelay (usec) -1.98659E-06 +/- 2.9E-08
 Delay rate (us/s) -1.70311601716E+00 Apriori rate (us/s) -1.70311646197E+00 Resid rate (us/s) 4.44810E-07 +/- 3.1E-10
 Total phase (deg) 174.8 Apriori accel (us/s/s) -1.72152771379E-05 Resid phase (deg) 306.6 +/- 0.5

RMS Theor. Amplitude 7.189 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 21.6 1.1 Search (1024X32) 7.114 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 8.2 1.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.7 0.6 Inc. seg. avg. 7.710 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 30.0 1.1 Inc. frq. avg. 9.243 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

u: az 293.7 el 44.1 pa 75.7 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 6346.038 -841.523 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uY...3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uY.Q.42.3MP1HX

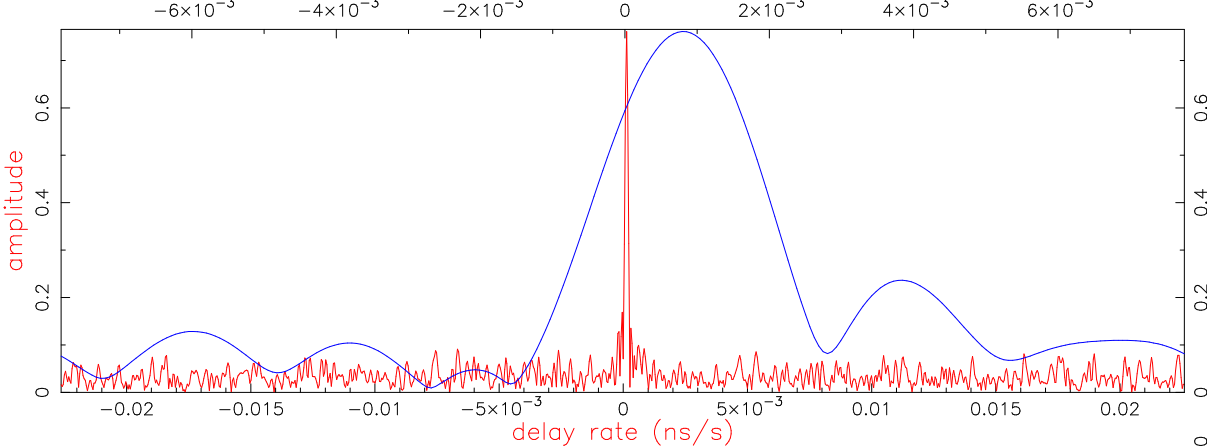
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, uy

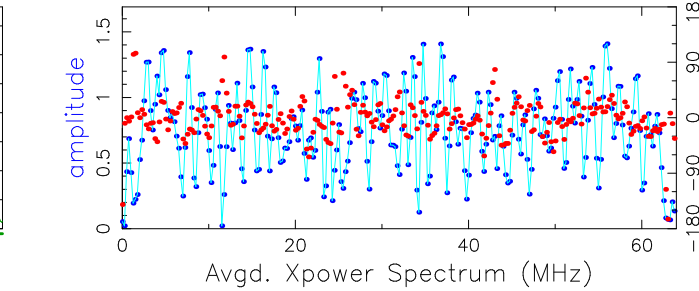
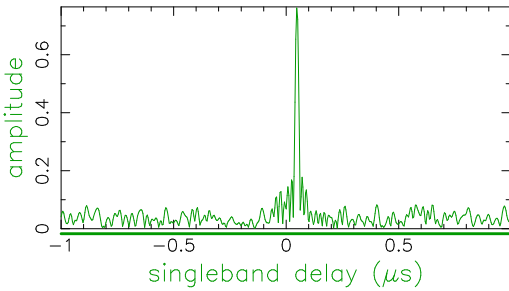
KVNUŞ - KVNYS, fgroup Q, pol LR

multiband delay (μ s)



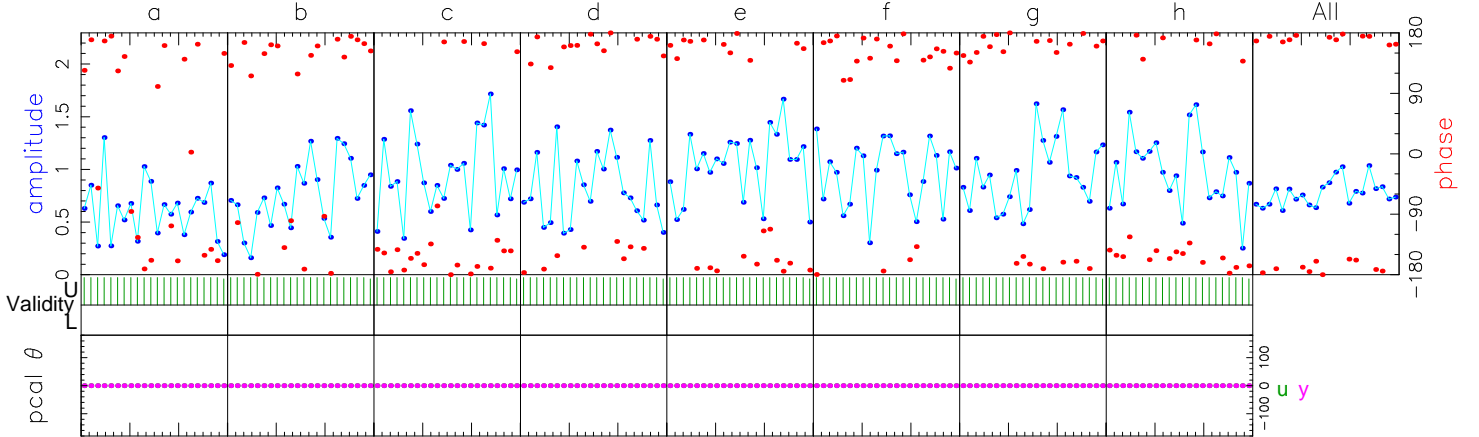
Fringe quality 9

SNR 28.1
 Int time 179.821
 Amp 0.766
 Phase 67.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.047819
 MBD 0.000804
 Fringe rate (Hz)
 0.005352
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220000.00
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145509
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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		
u	0	24000	0	0	32000	0	0	40000		
y	0	24000	0	0	32000	0	0	40000		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		
y	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		

Group delay (usec) (SBD) -6.56819271331E+02 Apriori delay (usec) -6.56866950141E+02 Resid mbdelay (usec) 8.03810E-04 +/- 3.9E-05
 Sband delay (usec) -6.56819131641E+02 Apriori clock (usec) -5.0831814E+00 Resid sbdelay (usec) 4.78185E-02 +/- 3.1E-04
 Phase delay (usec) -6.56866938573E+02 Apriori clockrate (us/s) 2.0599841E-08 Resid phdelay (usec) 1.15677E-05 +/- 2.6E-07
 Delay rate (us/s) -4.16506471419E-02 Apriori rate (us/s) -4.16507712042E-02 Resid rate (us/s) 1.24062E-07 +/- 2.5E-09
 Total phase (deg) 344.7 Apriori accel (us/s/s) 1.42392544301E-06 Resid phase (deg) 67.2 +/- 4.1

ph/seg (deg) 11.8 9.6 Search (1024X32) 0.746 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 15.6 16.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.1 5.8 Inc. seg. avg. 0.766 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.4 10.1 Inc. frq. avg. 0.776 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

u: az 293.7 el 44.1 pa 75.7 y: az 291.2 el 46.6 pa 74.1 u,v (fr/asec) 155.724 -51.017 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uy..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uy.Q.44.3MP1HX

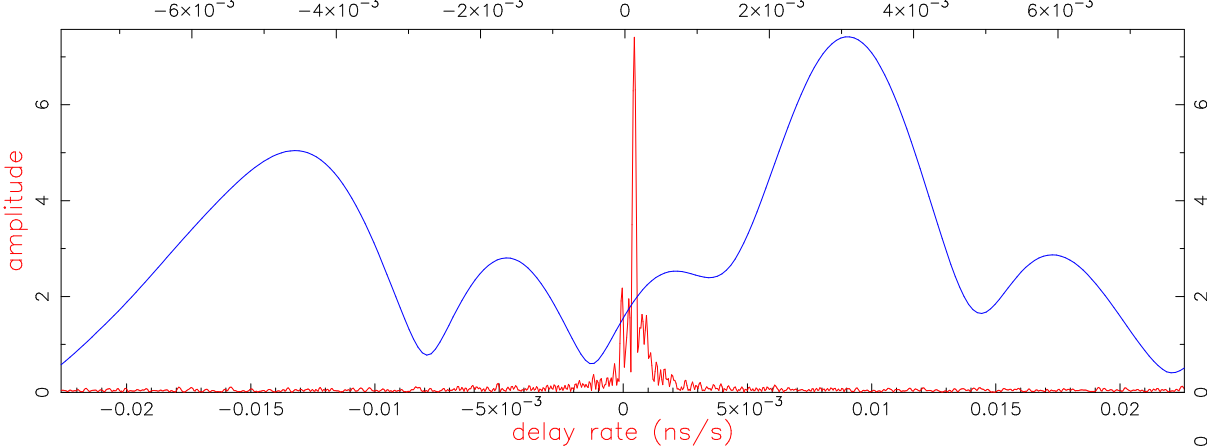
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C345.3MP1HX, No0399, uY

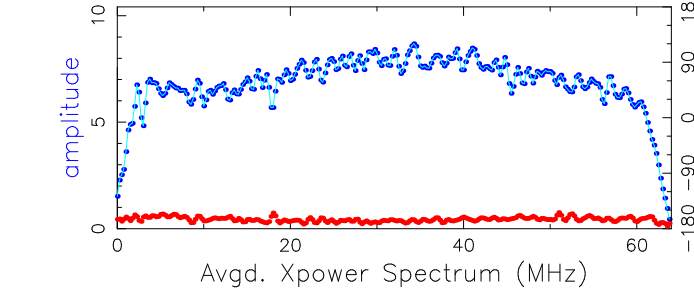
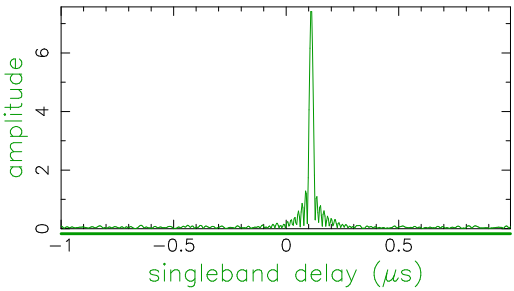
KVNUS - YEBES40M, fgroup Q, pol RL

multiband delay (μ s)



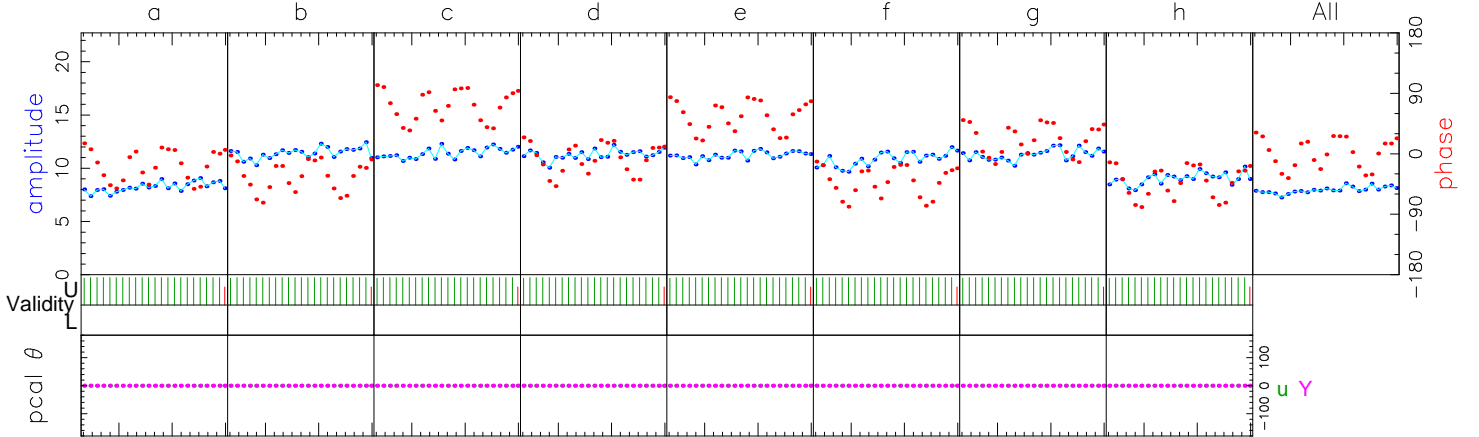
Fringe quality 5

SNR 263.7
 Int time 162.160
 Amp 7.573
 Phase 338.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.111312
 MBD 0.003147
 Fringe rate (Hz)
 0.019163
 Ion TEC 0.000
 Ref freq (MHz)
 43140.0000
 AP (sec) 0.512



Exp. c241d
 Exper # 1234
 Yr:day 2024:112
 Start 220017.41
 Stop 220300.23
 FRT 220130.00
 Corr/FF/build
 2024:316:155049
 2025:042:145511
 2024:113:095956
 RA & Dec (J2000)
 16h42m58.809971s
 +39°48'36.993958"

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
	-17.5	-33.5	71.7	-6.6	56.0	-41.4	21.8	-42.2	Phase	1.0
	7.6	10.6	10.6	10.5	10.5	10.1	10.5	8.3	Ampl.	9.8
	286.9	285.6	285.0	284.8	284.8	284.8	285.2	284.8	Sbd box	285.5
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
u	0	24000	0	0	32000	0	0	40000	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR	Chan ids	
Y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL	Tracks	

Group delay (usec) (SBD) 2.42026397379E+03 Apriori delay (usec) 2.42015145187E+03 Resid mbdelay (usec) 3.14692E-03 +/- 4.1E-06
 Sband delay (usec) 2.42026276337E+03 Apriori clock (usec) 1.1223283E+02 Resid sbdelay (usec) 1.11312E-01 +/- 3.3E-05
 Phase delay (usec) 2.42015145193E+03 Apriori clockrate (us/s) 1.0884720E-02 Resid phdelay (usec) 6.12106E-08 +/- 2.8E-08
 Delay rate (us/s) -1.70311601776E+00 Apriori rate (us/s) -1.70311646197E+00 Resid rate (us/s) 4.44204E-07 +/- 3.0E-10
 Total phase (deg) 206.6 Apriori accel (us/s/s) -1.72152771379E-05 Resid phase (deg) 338.5 +/- 0.4

RMS Theor. Amplitude 7.573 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 21.7 1.0 Search (1024X32) 7.339 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 6.6 1.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 47.8 0.6 Inc. seg. avg. 7.964 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.023 0.023
 amp/frq (%) 33.3 1.1 Inc. frq. avg. 9.845 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

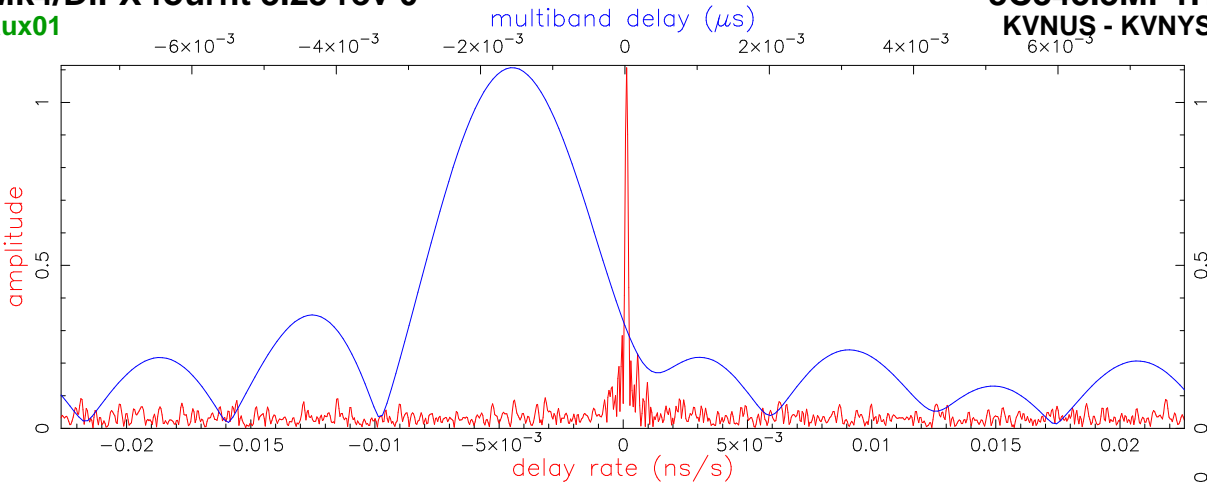
u: az 293.7 el 44.1 pa 75.7 Y: az 64.9 el 35.5 pa -63.8 u,v (fr/asec) 6346.038 -841.523 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uY..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uY.Q.55.3MP1HX

Mk4/DiFX fourfit 3.25 rev 0

aux01

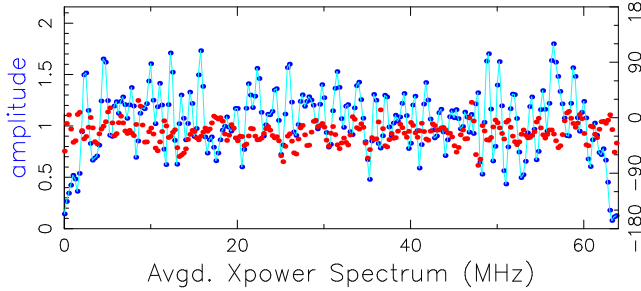
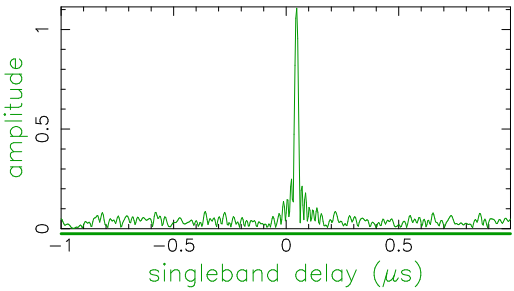
3C345.3MP1HX, No0399, uy

KVNUŞ - KVNYS, fgroup Q, pol RL



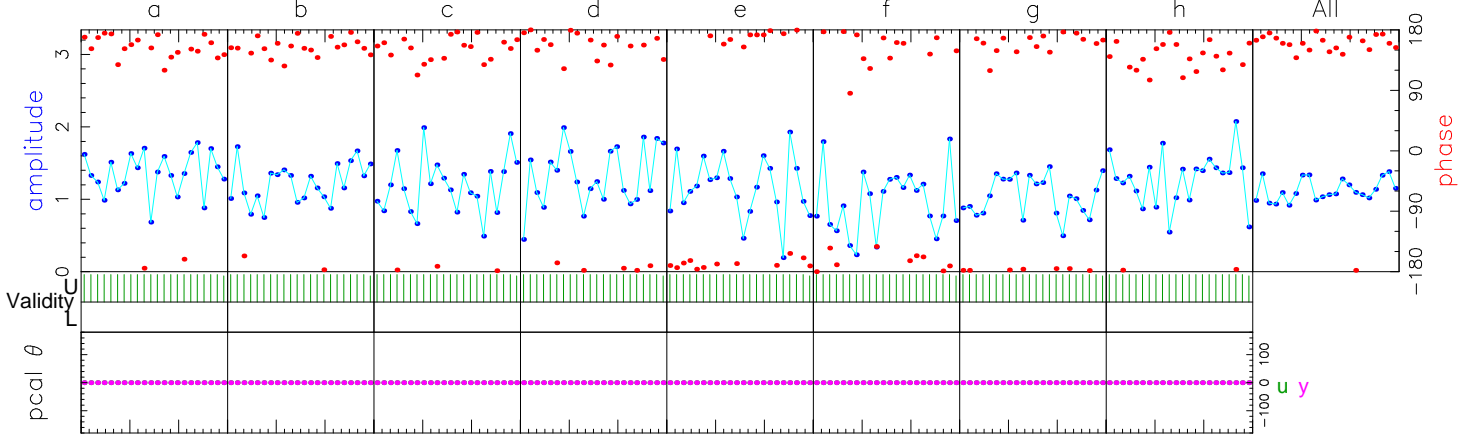
Fringe quality 8

SNR 40.8
Int time 179.821
Amp 1.114
Phase 48.9
PFD 0.0e+00
Delays (us)
SBD 0.045867
MBD -0.001560
Fringe rate (Hz)
0.005582
Ion TEC 0.000
Ref freq (MHz)
43140.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:112
Start 220000.00
Stop 220300.23
FRT 220130.00
Corr/FF/build
2024:316:155049
2025:042:145511
2024:113:095956
RA & Dec (J2000)
16h42m58.809971s
+39°48'36.993958"

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		
u	0	24000	0	0	32000	0	0	40000		
y	0	24000	0	0	32000	0	0	40000		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	Q00UR	Q01UR	Q02UR	Q03UR	Q04UR	Q05UR	Q06UR	Q07UR		
y	Q00UL	Q01UL	Q02UL	Q03UL	Q04UL	Q05UL	Q06UL	Q07UL		

Group delay (usec) (SBD)	-6.56821635456E+02	Apriori delay (usec)	-6.56866950141E+02	Resid mbdelay (usec)	-1.56032E-03	+/-	2.7E-05
Sband delay (usec)	-6.56821082891E+02	Apriori clock (usec)	-5.0831814E+00	Resid sbdelay (usec)	4.58672E-02	+/-	2.1E-04
Phase delay (usec)	-6.56866939747E+02	Apriori clockrate (us/s)	2.0599841E-08	Resid phdelay (usec)	1.03941E-05	+/-	1.8E-07
Delay rate (us/s)	-4.16506418137E-02	Apriori rate (us/s)	-4.16507712042E-02	Resid rate (us/s)	1.29391E-07	+/-	1.7E-09
Total phase (deg)	326.5	Apriori accel (us/s/s)	1.42392544301E-06	Resid phase (deg)	48.9	+/-	2.8

ph/seg (deg)	11.3	Theor.	6.6	Search (1024X32)	1.098	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	13.1		11.5	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	12.6		4.0	Inc. seg. avg.	1.121	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.023	0.023
amp/frq (%)	11.5		6.9	Inc. frq. avg.	1.124	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00

u: az 293.7 el 44.1 pa 75.7 y: az 291.2 el 46.6 pa 74.1 u,v (fr/asec) 155.724 -51.017 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241d/v1/7mm/1234/No0399/uy..3MP1HX Output file: /Exps/c241d/v1/7mm/1234/No0399/uy.Q.57.3MP1HX