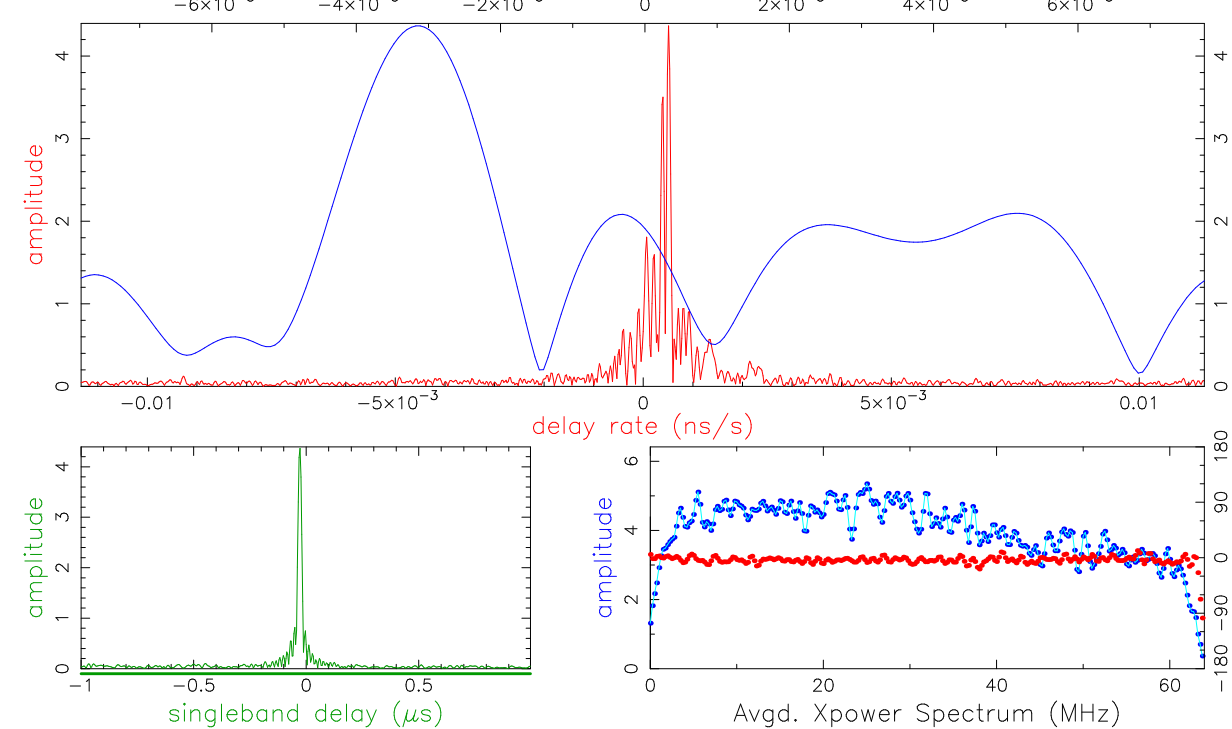


Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BX

EFLSBERG - ONSALA60, fgroup W, pol LL

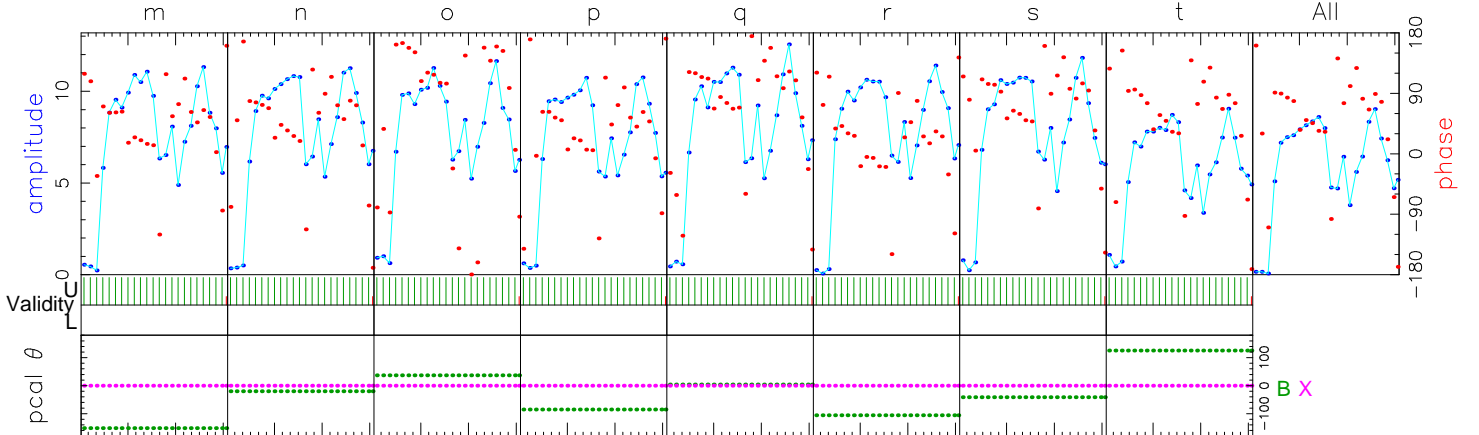


Fringe quality 2

SNR 160.6
 Int time 178.950
 Amp 4.395
 Phase 67.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.028364
 MBD -0.003168
 Fringe rate (Hz) 0.044662
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102640
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
B	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) -1.46970444779E+03 Apriori delay (usec) -1.46967002997E+03 Resid mbdelay (usec) -3.16782E-03 +/- 6.8E-06
 Sband delay (usec) -1.46969839422E+03 Apriori clock (usec) 4.144 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Phase delay (usec) -1.46967002780E+03 Apriori clockrate (us/s) -1.4061621E-06 Resid sbdelay (usec) -2.83643E-02 +/- 5.4E-05
 Delay rate (us/s) 1.32210801443E-01 Apriori rate (us/s) 1.32210282962E-01 Resid phdelay (usec) 2.16896E-06 +/- 2.3E-08
 Total phase (deg) -70.2 Apriori accel (us/s/s) 2.20151298426E-06 Resid rate (us/s) 5.18481E-07 +/- 2.2E-10
 Resid phase (deg) 67.3 +/- 0.7

ph/seg (deg) 68.5 1.7 Search (1024X32) 4.144 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.4 3.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.4 1.0 Inc. seg. avg. 5.918 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.3 1.8 Inc. frq. avg. 5.405 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

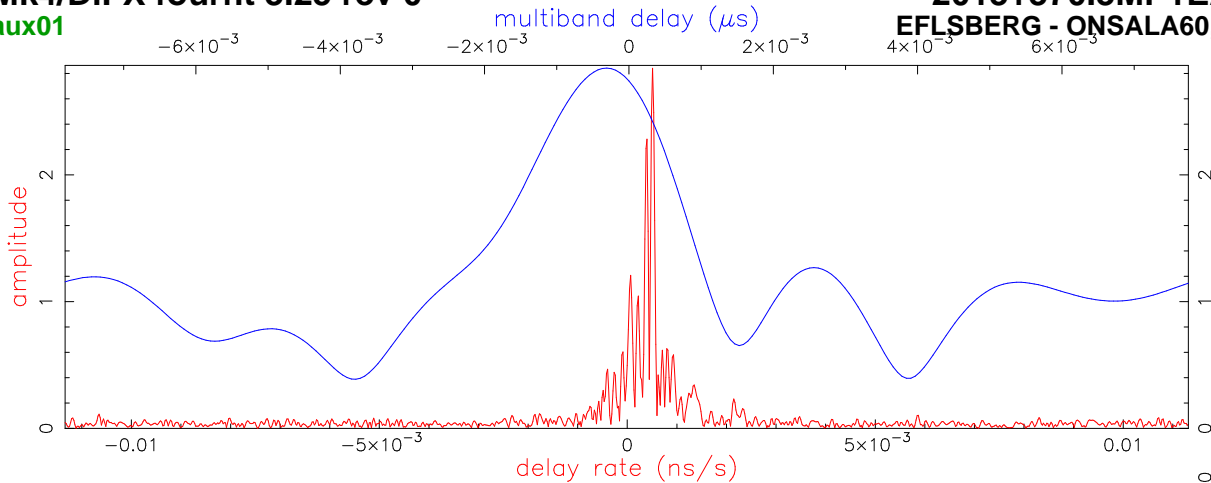
B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.17.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BX

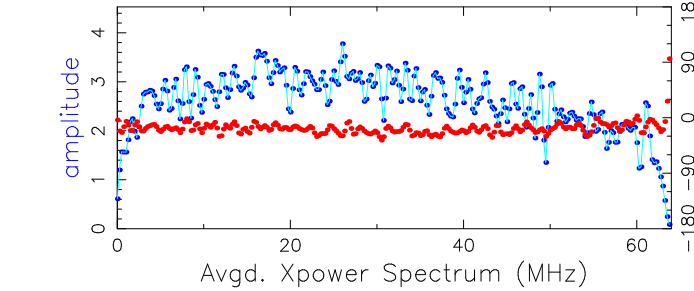
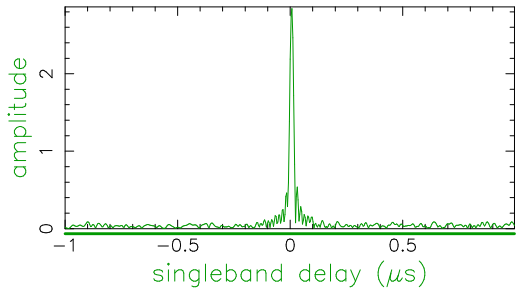
EFLSBERG - ONSALA60, fgroup W, pol RR



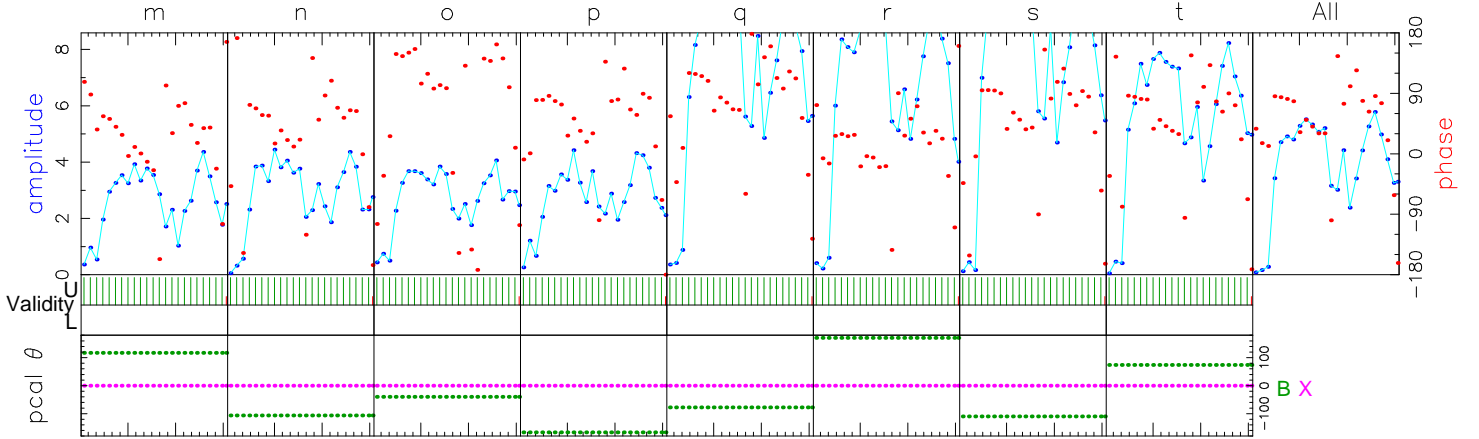
Fringe quality 1

SNR 104.7
 Int time 178.950
 Amp 2.864
 Phase 63.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.006697
 MBD -0.000345
 Fringe rate (Hz) 0.044626
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102647
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
B	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-1.46967037466E+03	Apriori delay (usec)	-1.46967002997E+03	Resid mbdelay (usec)	-3.44692E-04	+/-	1.0E-05
Sband delay (usec)	-1.46966333272E+03	Apriori clock (usec)	-1.4825607E+02	Resid sbdelay (usec)	6.69725E-03	+/-	8.2E-05
Phase delay (usec)	-1.46967002791E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	2.05964E-06	+/-	3.5E-08
Delay rate (us/s)	1.32210801028E-01	Apriori rate (us/s)	1.32210282962E-01	Resid rate (us/s)	5.18066E-07	+/-	3.4E-10
Total phase (deg)	-73.5	Apriori accel (us/s/s)	2.20151298426E-06	Resid phase (deg)	63.9	+/-	1.1

ph/seg (deg) 56.1 2.7 Search (1024X32) 2.743 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.2 4.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.6 1.5 Inc. seg. avg. 3.864 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.7 2.7 Inc. frq. avg. 3.395 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.34.3MP1EA

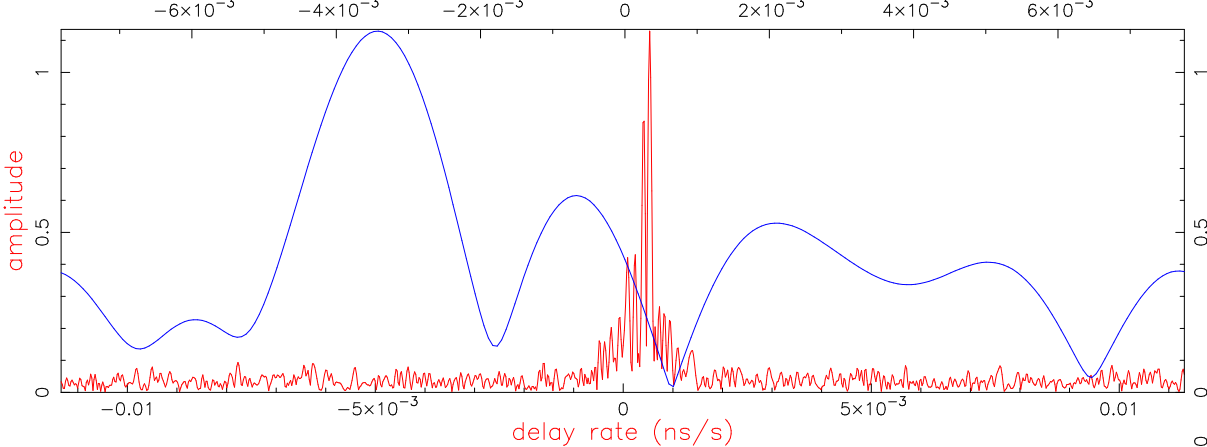
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BX

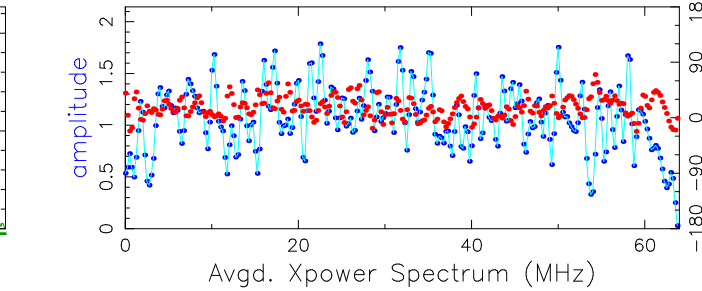
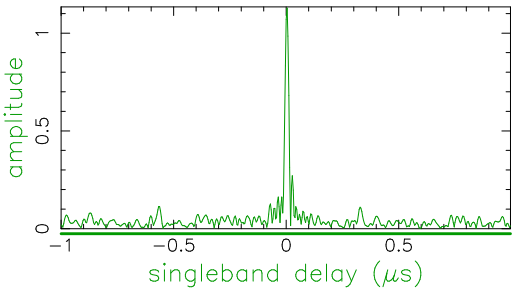
EFLSBERG - ONSALA60, fgroup W, pol LR

multiband delay (μ s)



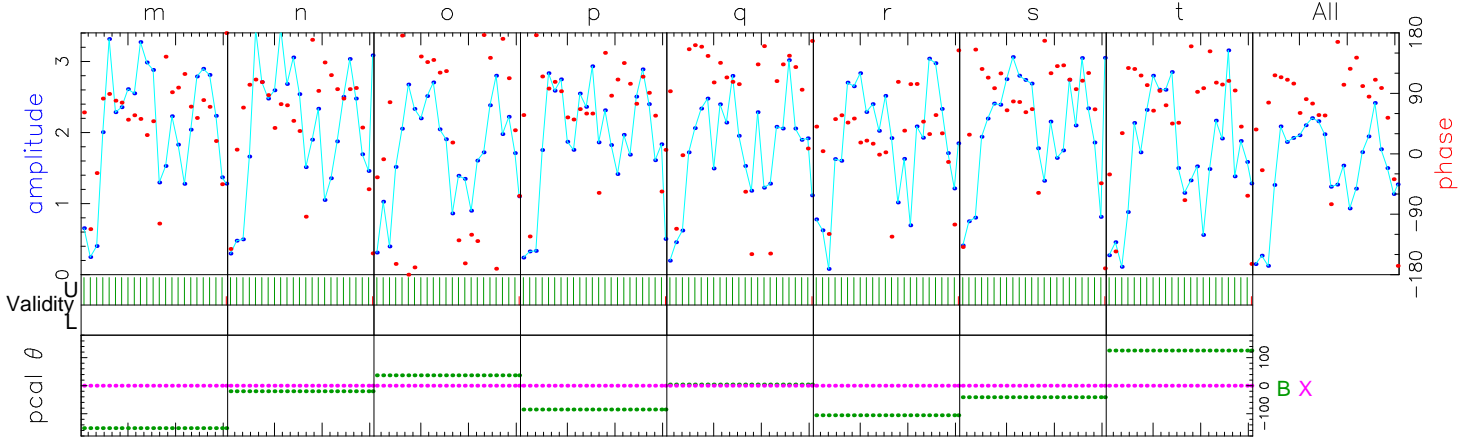
Fringe quality 4

SNR 41.5
 Int time 178.950
 Amp 1.134
 Phase 91.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.003076
 MBD -0.003456
 Fringe rate (Hz)
 0.044902
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102652
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	65.7	84.1	161.8	86.9	132.9	34.3	99.1	91.7	Phase	91.3
	1.6	1.5	1.1	1.4	1.3	1.4	1.5	1.1	Ampl.	1.4
	257.6	257.4	257.3	257.7	257.6	257.3	257.6	256.7	Sbd box	257.8
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -1.46967348639E+03 Apriori delay (usec) -1.46967002997E+03 Resid mbdelay (usec) -3.45642E-03 +/- 2.6E-05
 Sband delay (usec) -1.46966695397E+03 Apriori clock (usec) -1.4825607E+02 Resid sbdelay (usec) 3.07600E-03 +/- 2.1E-04
 Phase delay (usec) -1.46967002703E+03 Apriori clockrate (us/s) -1.4061621E-02 Resid phdelay (usec) 2.94561E-06 +/- 8.9E-08
 Delay rate (us/s) 1.32210804235E-01 Apriori rate (us/s) 1.32210282962E-01 Resid rate (us/s) 5.21273E-07 +/- 8.6E-10
 Total phase (deg) -46.1 Apriori accel (us/s/s) 2.20151298426E-06 Resid phase (deg) 91.3 +/- 2.8

RMS Theor. Amplitude 1.134 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.0 6.8 Search (1024X32) 1.088 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 65.3 11.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 42.3 3.9 Inc. seg. avg. 1.499 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.9 6.8 Inc. frq. avg. 1.362 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

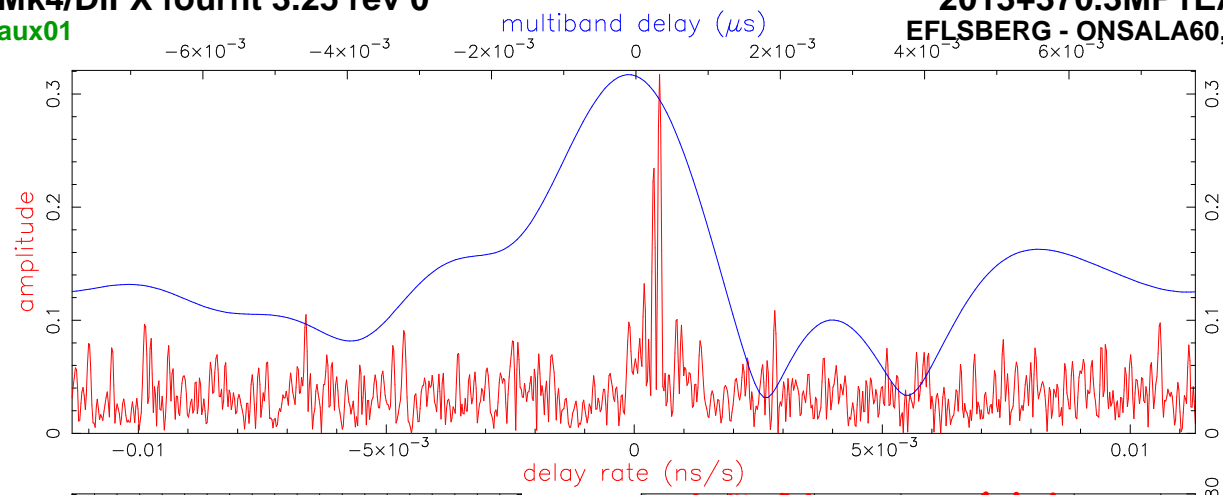
B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.46.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BX

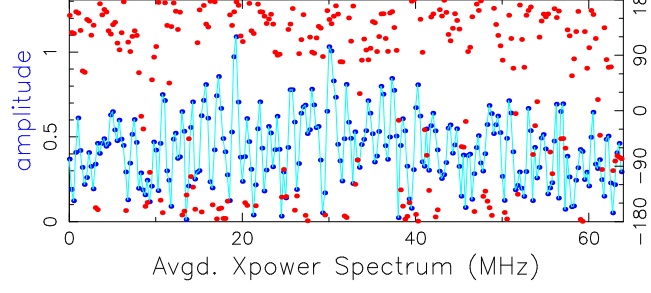
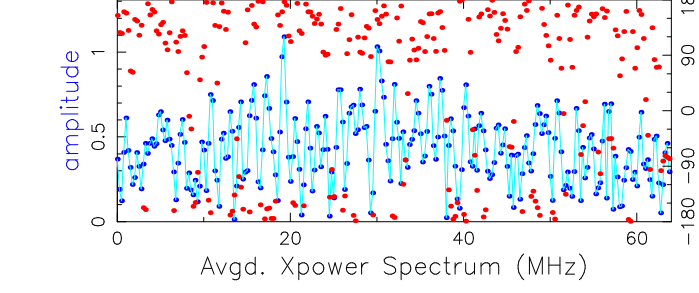
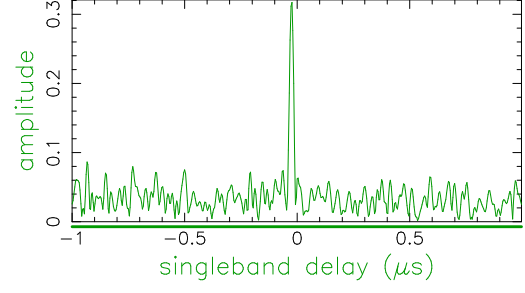
EFLSBERG - ONSALA60, fgroup W, pol RL



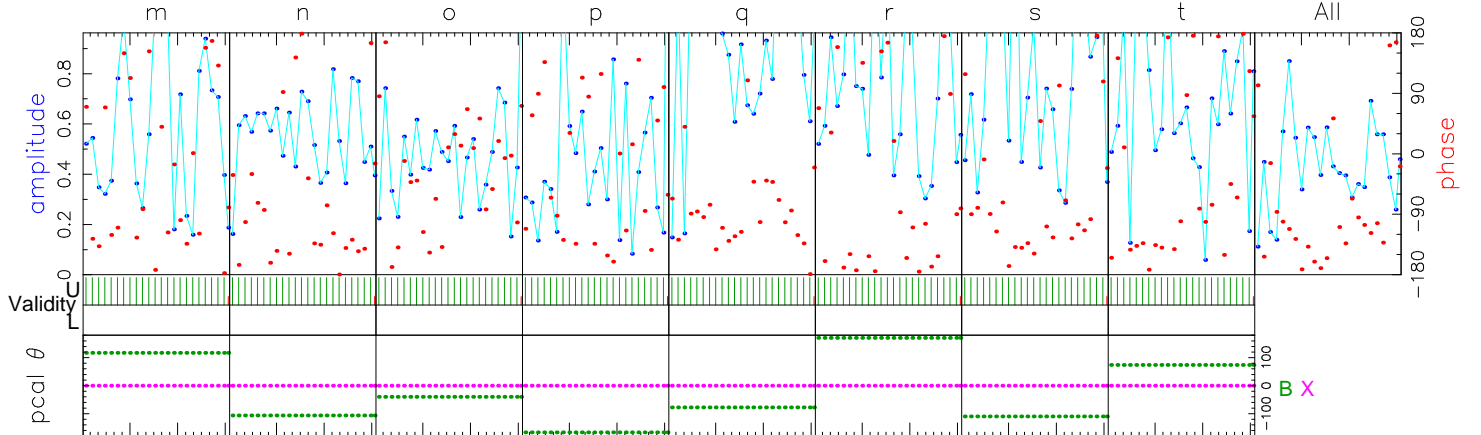
Fringe quality 9

SNR 11.7
 Int time 178.950
 Amp 0.321
 Phase -129.2
 PFD 2.2e-23
 Delays (us)
 SBD -0.024924
 MBD -0.000102
 Fringe rate (Hz) 0.044734
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build 2024:351:093049
 2025:041:102654
 2024:113:095956
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All				
	-169.3	-131.9	-25.1	-145.5	-97.3	-174.5	-120.0	-145.1	Phase	-129.2				
	0.3	0.4	0.2	0.2	0.8	0.5	0.5	0.4	Ampl.	0.4				
	249.3	250.1	144.0	127.9	250.5	250.6	250.1	249.3	Sbd box	250.6				
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used					
B	0	0	0	0	0	0	0	0	PC freqs					
X	0	0	0	0	0	0	0	0	PC freqs					
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B:X	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	ManI PC					
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000						
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids					
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks					
									Tracks					
Group delay (usec) (SBD)	-1.46970138238E+03								Apriori delay (usec)	-1.46967002997E+03	Resid mbdelay (usec)	-1.02411E-04	+/-	9.3E-05
Sband delay (usec)	-1.46969495397E+03								Apriori clock (usec)	-1.4825607E+02	Resid sbdelay (usec)	-2.49240E-02	+/-	7.3E-04
Phase delay (usec)	-1.46967003414E+03								Apriori clockrate (us/s)	-1.4061621E-06	Resid phdelay (usec)	-4.16555E-06	+/-	3.2E-07
Delay rate (us/s)	1.32210802285E-01								Apriori rate (us/s)	1.32210282962E-01	Resid rate (us/s)	5.19323E-07	+/-	3.0E-09
Total phase (deg)			-266.6						Apriori accel (us/s/s)	2.20151298426E-06	Resid phase (deg)	-129.2	+/-	9.8

ph/seg (deg) 62.2 23.9 Search (1024X32) 0.302 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.6 41.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.8 13.8 Inc. seg. avg. 0.401 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 65.5 24.1 Inc. frq. avg. 0.375 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.60.3MP1EA

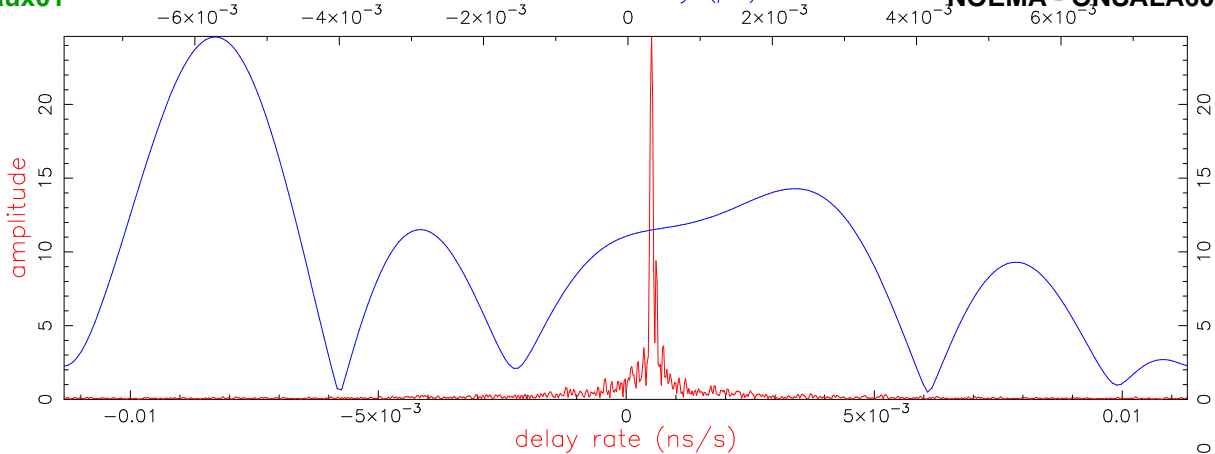
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, NX

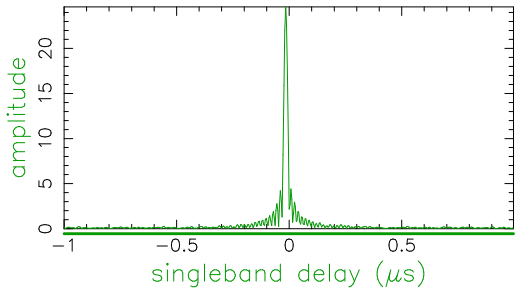
NOEMA - ONSALA60, fgroup W, pol LL

multiband delay (μ s)

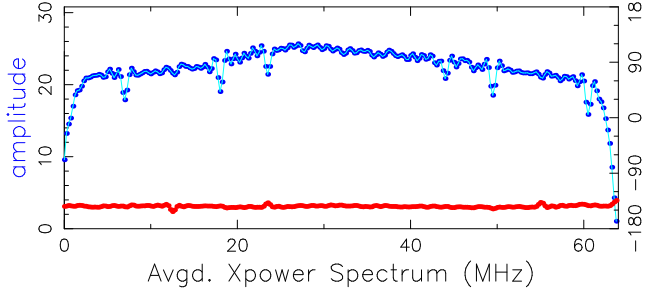


Fringe quality 5

SNR 899.8
Int time 178.950
Amp 24.618
Phase 105.6
PFD 0.0e+00
Delays (us)
SBD -0.015305
MBD -0.005712
Fringe rate (Hz)
0.043951
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

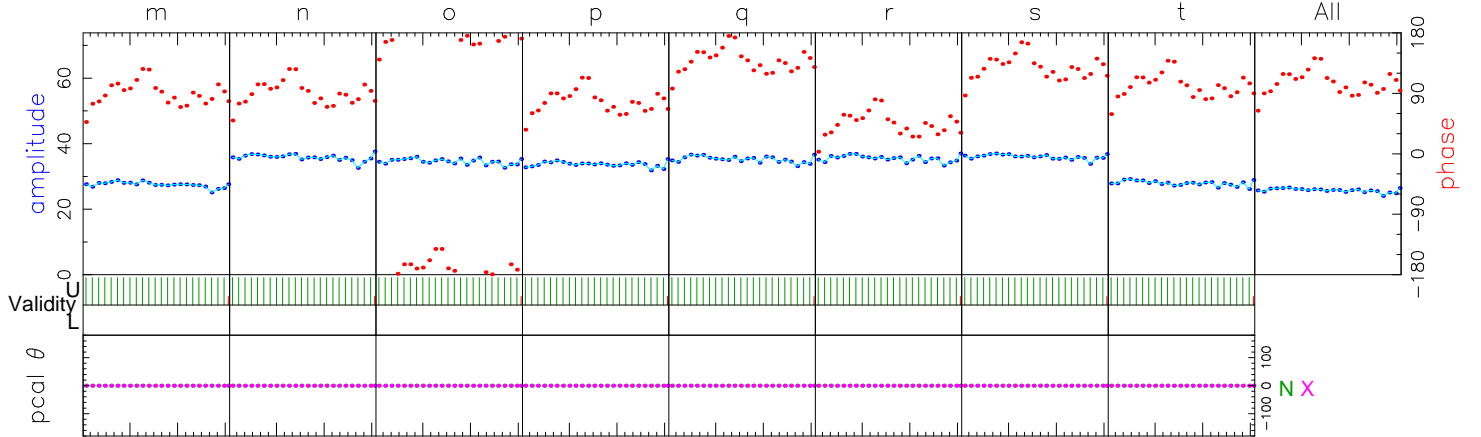


delay rate (ns/s)



Exp. c241c
Exper # 1234
Yr:day 2024:112
Start 004001.02
Stop 004300.22
FRT 004130.00
Corr/FF/build
2024:351:093049
2025:041:102644
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	89.9	90.2	-177.3	77.2	138.1	44.3	128.3	100.6	Phase	105.6
	26.3	34.2	33.0	32.2	33.7	33.9	34.3	26.7	Ampl.	31.8
	254.5	252.9	252.8	252.2	252.4	252.6	252.9	253.4	Sbd box	253.1
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-2.25324094243E+03	Apriori delay (usec)	-2.25321960568E+03	Resid mbdelay (usec)	-5.71175E-03	+/-	1.2E-06
Sband delay (usec)	-2.25323491018E+03	Apriori clock (usec)	-1.2621696E+02	Resid sbdelay (usec)	-1.53045E-02	+/-	9.6E-06
Phase delay (usec)	-2.25321960227E+03	Apriori clockrate (us/s)	-1.2023240E-02	Resid phdelay (usec)	3.40525E-06	+/-	4.1E-09
Delay rate (us/s)	2.26958103673E-01	Apriori rate (us/s)	2.26957593445E-01	Resid rate (us/s)	5.10228E-07	+/-	4.0E-11
Total phase (deg)	-194.4	Apriori accel (us/s/s)	1.76051565536E-06	Resid phase (deg)	105.6	+/-	0.1

ph/seg (deg)	17.4	0.3	Search (1024X32)	24.326	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	5.2	0.5	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)	45.8	0.2	Inc. seg. avg.	25.771	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.7	0.3	Inc. frq. avg.	31.773	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 67.7 el 32.5 pa -55.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -1633.846 -870.475 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/NX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/NX.W.26.3MP1EA

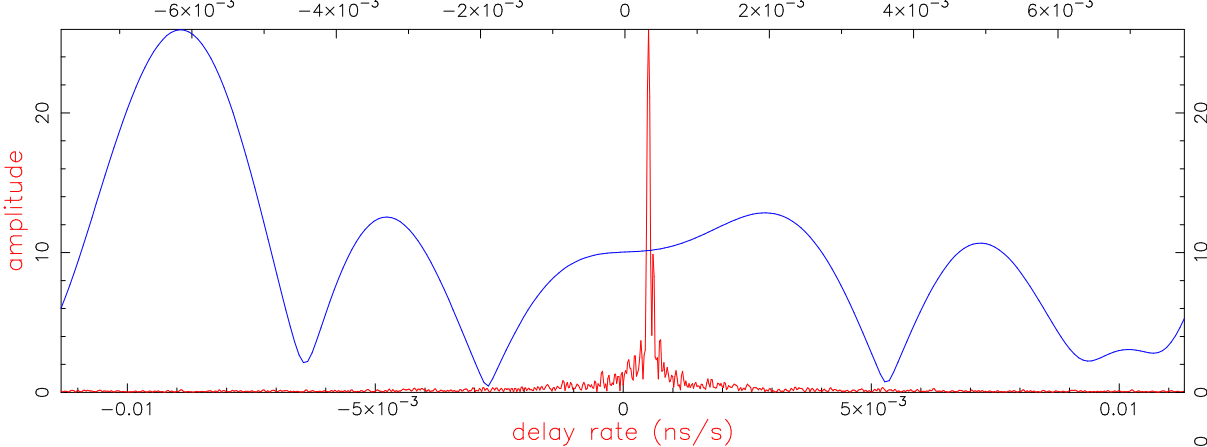
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, NX

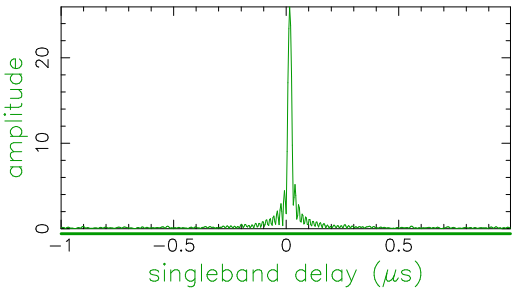
NOEMA - ONSALA60, fgroup W, pol RR

multiband delay (μ s)

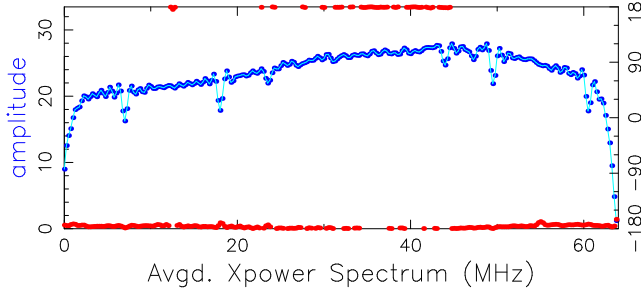


Fringe quality 5

SNR 949.3
 Int time 178.950
 Amp 25.972
 Phase 75.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.015807
 MBD -0.006152
 Fringe rate (Hz)
 0.043964
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

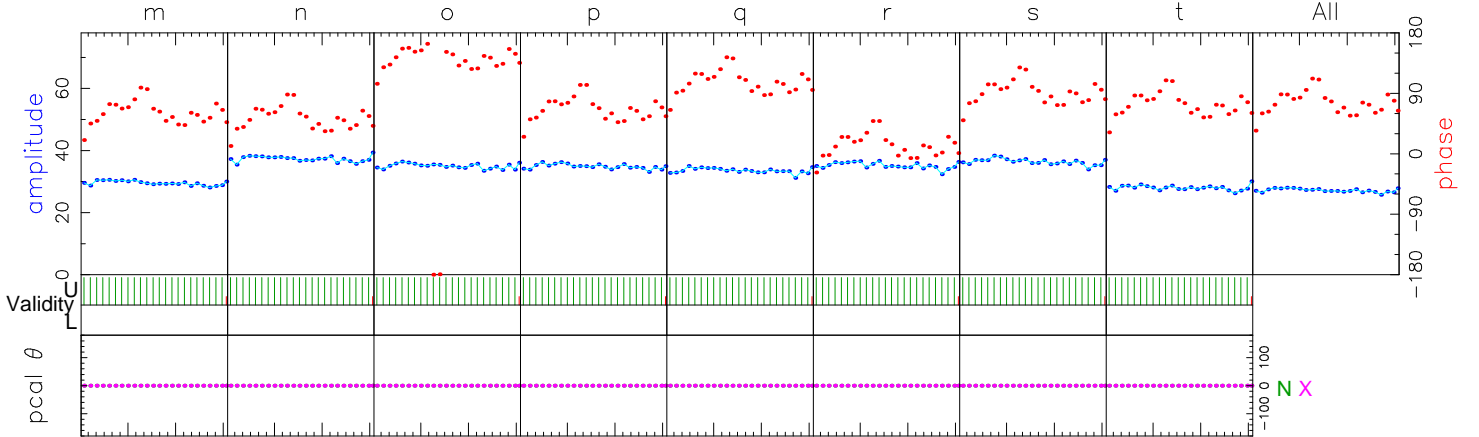


delay rate (ns/s)



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102648
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	61.3	52.5	144.9	66.3	106.5	12.3	91.1	73.3	Phase	75.5
	28.3	35.6	33.5	33.4	32.1	33.6	34.8	26.7	Ampl.	32.2
	262.0	261.0	260.5	260.3	260.1	260.5	260.8	261.8	Sbd box	261.0
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -2.25321013234E+03 Apriori delay (usec) -2.25321960568E+03 Resid mbdelay (usec) -6.15166E-03 +/- 1.1E-06
 Sband delay (usec) -2.25320379843E+03 Apriori clock (usec) -1.2621696E+02 Resid sbdelay (usec) 1.58073E-02 +/- 9.1E-06
 Phase delay (usec) -2.25321960324E+03 Apriori clockrate (us/s) -1.2023240E-02 Resid phdelay (usec) 2.43503E-06 +/- 3.9E-09
 Delay rate (us/s) 2.26958103827E-01 Apriori rate (us/s) 2.26957593445E-01 Resid rate (us/s) 5.10383E-07 +/- 3.8E-11
 Total phase (deg) -224.5 Apriori accel (us/s/s) 1.76051565536E-06 Resid phase (deg) 75.5 +/- 0.1

RMS Theor. Amplitude 25.972 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 17.3 0.3 Search (1024X32) 25.536 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 5.1 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 42.5 0.2 Inc. seg. avg. 27.176 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 26.6 0.3 Inc. frq. avg. 32.240 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 67.7 el 32.5 pa -55.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -1633.846 -870.475 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/NX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/NX.W.42.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

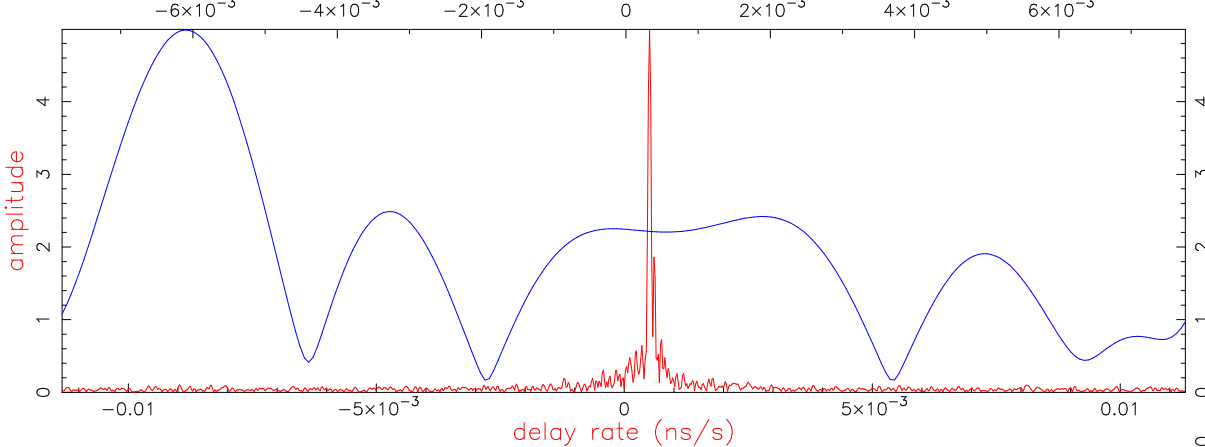
aux01

2013+370.3MP1EA, No0232, NX

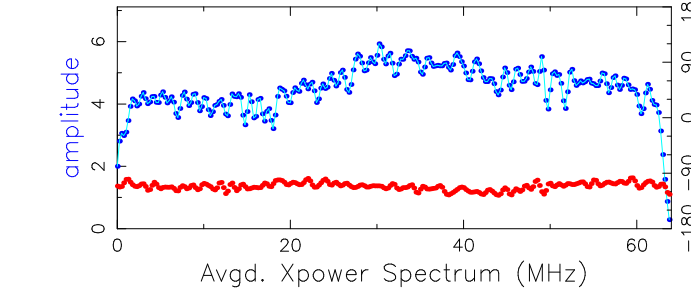
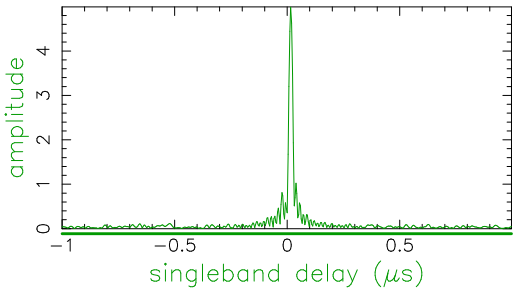
NOEMA - ONSALA60, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 5

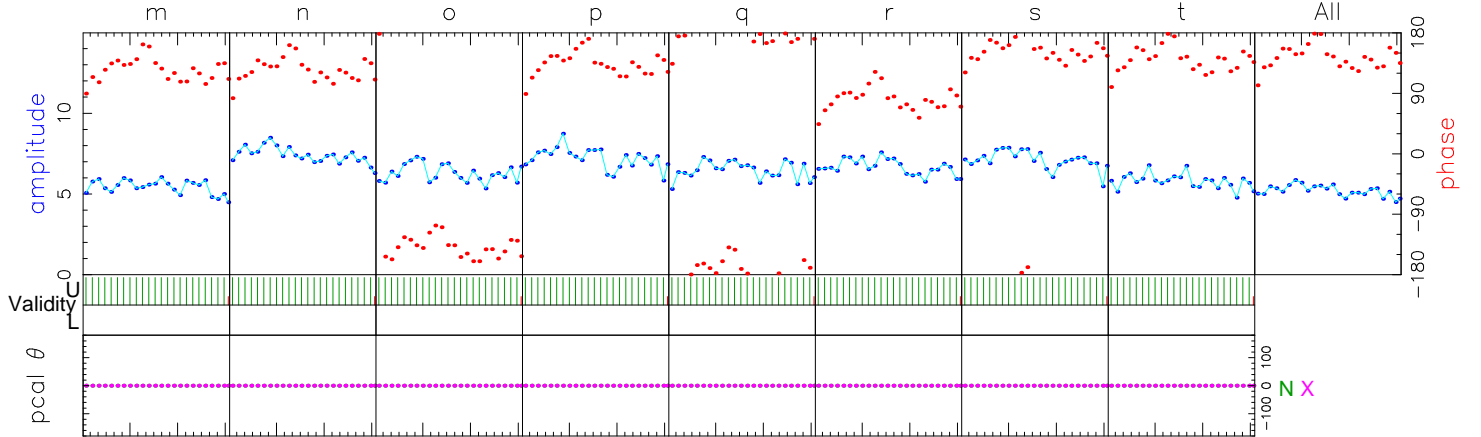


SNR 182.5
 Int time 178.950
 Amp 4.994
 Phase 143.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.016042
 MBD -0.006086
 Fringe rate (Hz) 0.043961
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102651
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	124.9	125.0	-140.1	133.9	-176.4	81.5	154.2	140.4	Phase	143.6
	5.2	7.1	6.0	6.9	6.2	6.4	6.8	5.5	Ampl.	6.3
	262.0	261.1	260.5	260.4	260.2	260.6	260.9	261.9	Sbd box	261.1
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-2.25321006625E+03	Apriori delay (usec)	-2.25321960568E+03	Resid mbdelay (usec)	-6.08557E-03	+/-	5.9E-06
Sband delay (usec)	-2.25320356368E+03	Apriori clock (usec)	-1.2621696E+02	Resid sbdelay (usec)	1.60420E-02	+/-	4.7E-05
Phase delay (usec)	-2.25321960105E+03	Apriori clockrate (us/s)	-1.2023240E-02	Resid phdelay (usec)	4.63093E-06	+/-	2.0E-08
Delay rate (us/s)	2.26958103787E-01	Apriori rate (us/s)	2.26957593445E-01	Resid rate (us/s)	5.10343E-07	+/-	2.0E-10
Total phase (deg)	-156.4	Apriori accel (us/s/s)	1.76051565536E-06	Resid phase (deg)	143.6	+/-	0.6

ph/seg (deg)	17.2	Theor.	1.5	Amplitude	4.994 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	8.0		2.7	Search (1024X32)	4.860	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	45.1		0.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	28.6		1.5	Inc. seg. avg.	5.218	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	6.278	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

N: az 67.7 el 32.5 pa -55.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -1633.846 -870.475 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/NX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/NX.W.45.3MP1EA

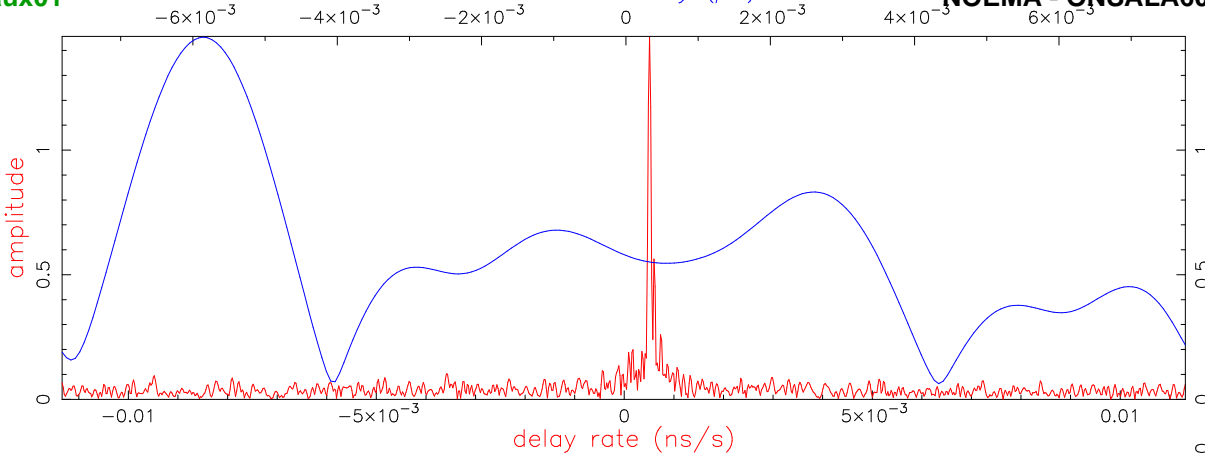
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, NX

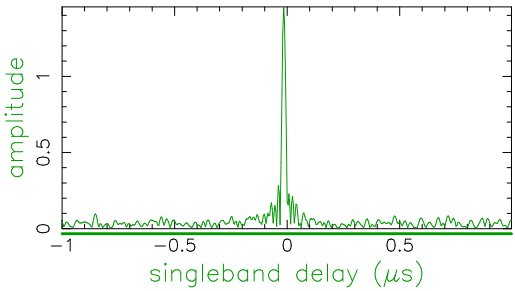
NOEMA - ONSALA60, fgroup W, pol RL

multiband delay (μ s)

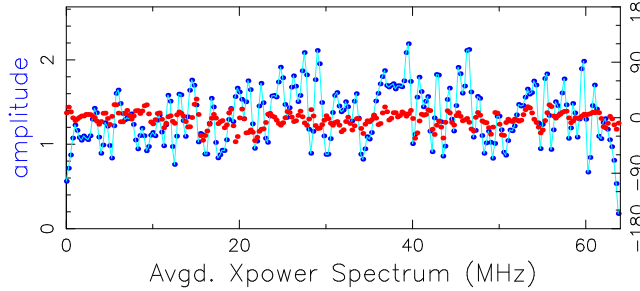


Fringe quality 4

SNR 53.2
 Int time 178.950
 Amp 1.456
 Phase -109.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.015108
 MBD -0.005843
 Fringe rate (Hz)
 0.043943
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

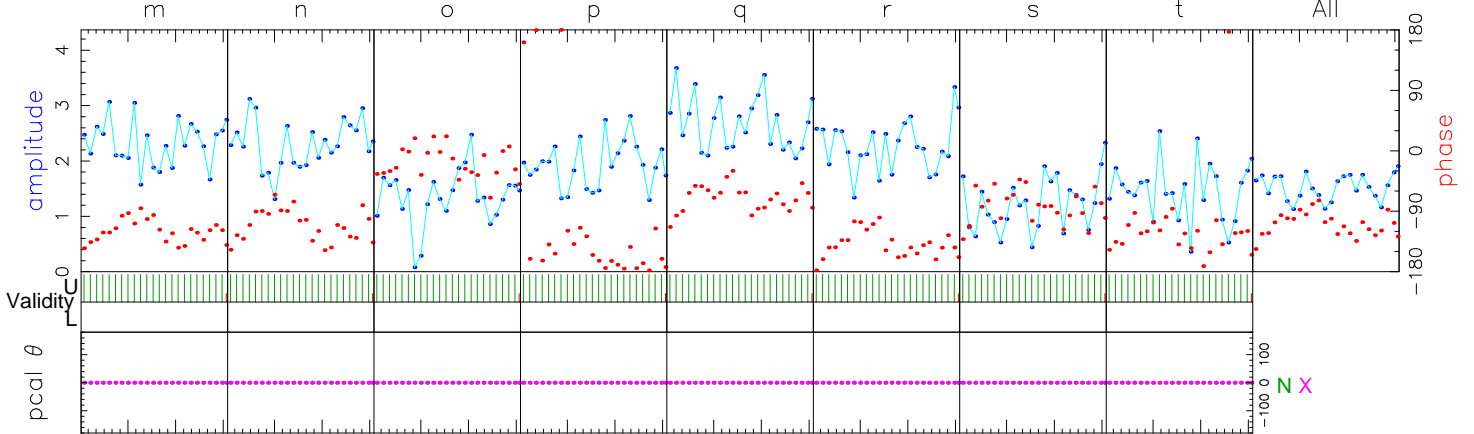


delay rate (ns/s)



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102654
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



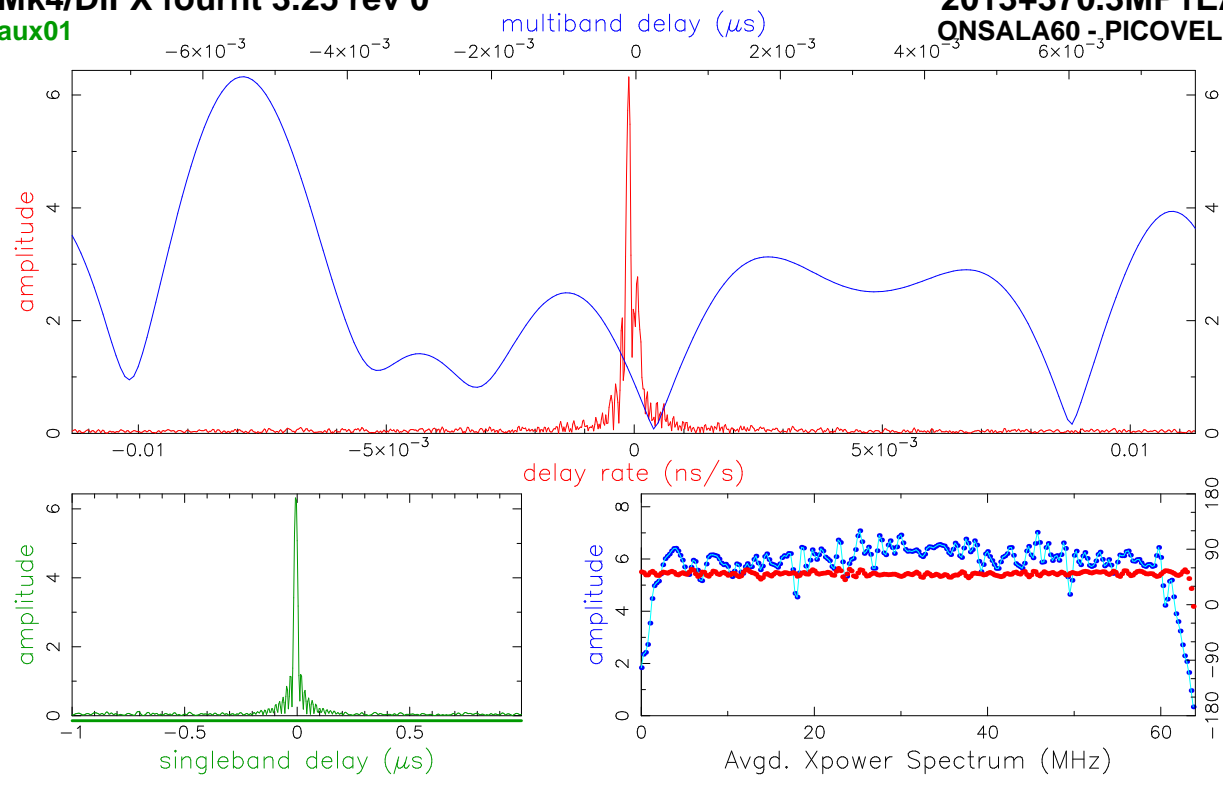
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.0	-111.4	-18.2	-157.8	-71.4	-140.1	-81.9	-124.4	Phase	-109.1
	2.2	2.1	1.3	1.8	2.5	2.1	1.1	1.4	Ampl.	1.8
	254.8	253.1	252.2	252.3	252.7	252.7	252.8	253.3	Sbd box	253.1
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-2.25324107372E+03	Apriori delay (usec)	-2.25321960568E+03	Resid mbdelay (usec)	-5.84304E-03	+/-	2.0E-05
Sband delay (usec)	-2.25323471418E+03	Apriori clock (usec)	-1.2621696E+02	Resid sbdelay (usec)	-1.51085E-02	+/-	1.6E-04
Phase delay (usec)	-2.25321960920E+03	Apriori clockrate (us/s)	-1.2023240E-02	Resid phdelay (usec)	-3.51841E-06	+/-	6.9E-08
Delay rate (us/s)	2.26958103585E-01	Apriori rate (us/s)	2.26957593445E-01	Resid rate (us/s)	5.10140E-07	+/-	6.7E-10
Total phase (deg)	-49.1	Apriori accel (us/s/s)	1.76051565536E-06	Resid phase (deg)	-109.1	+/-	2.2

ph/seg (deg)	17.3	Theor.	5.3	Amplitude	1.456 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	15.9		9.2	Search (1024X32)	1.442	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	48.5		3.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.9		5.3	Inc. seg. avg.	1.516	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1.819	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

N: az 67.7 el 32.5 pa -55.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -1633.846 -870.475 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/NX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/NX.W.59.3MP1EA

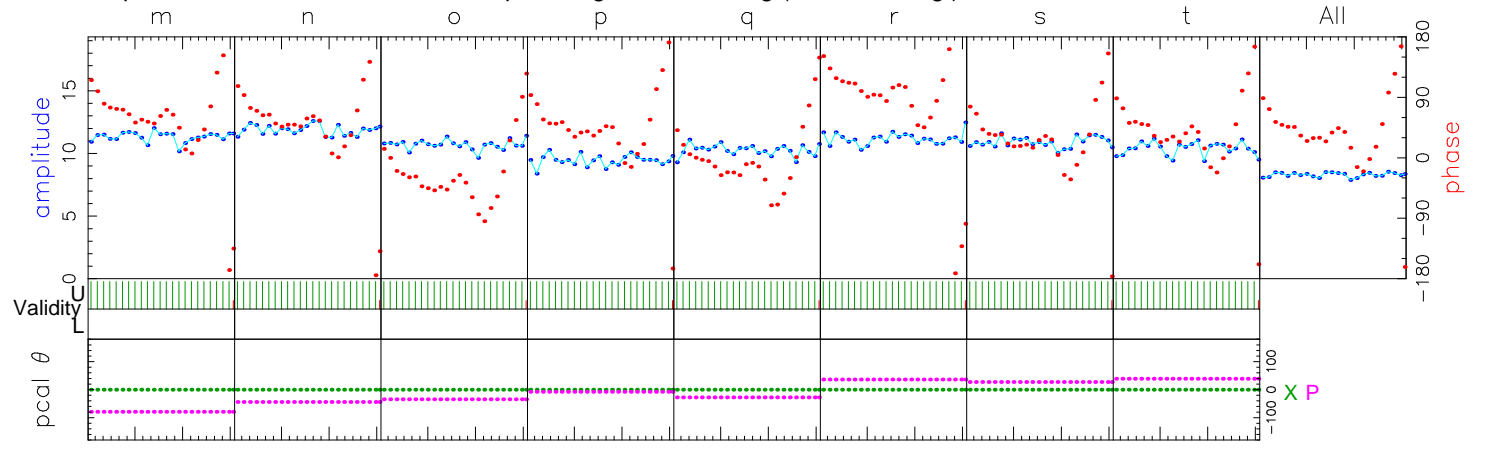


Fringe quality 3

SNR 235.5
Int time 178.950
Amp 6.438
Phase 42.2
PFD 0.0e+00
Delays (us)
SBD -0.006087
MBD -0.005406
Fringe rate (Hz)
-0.009676
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c241c
Exper # 1234
Yr:day 2024:112
Start 004001.02
Stop 004300.22
FRT 004130.00
Corr/FF/build
2024:351:093049
2025:041:102648
2024:113:095956
RA & Dec (J2000)
20h15m28.729786s
+37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	69.2	61.5	-30.6	47.6	-8.1	106.8	31.6	42.4	Phase	42.2
	8.6	9.1	8.1	7.2	7.8	8.5	8.4	7.9	Ampl.	8.2
	254.5	255.9	255.9	256.4	256.6	256.3	256.3	255.7	Sbd box	255.4
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	5.40325425841E+03		Apriori delay (usec)		5.40325966449E+03		Resid mbdelay (usec)		-5.40607E-03	+/- 4.6E-06
Sband delay (usec)	5.40325357774E+03		Apriori clock (usec)		1.1377654E+02		Resid sbdelay (usec)		-6.08675E-03	+/- 3.7E-05
Phase delay (usec)	5.40325966585E+03		Apriori clockrate (us/s)		6.1838598E-07		Resid phdelay (usec)		1.36160E-06	+/- 1.6E-08
Delay rate (us/s)	-3.51019272763E-01		Apriori rate (us/s)		-3.51019160431E-01		Resid rate (us/s)		-1.12332E-07	+/- 1.5E-10
Total phase (deg)	221.8		Apriori accel (us/s/s)		-1.17550173465E-05		Resid phase (deg)		42.2	+/- 0.5
ph/seg (deg)	RMS 45.1	Theor. 1.2	Amplitude 6.438 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	29.1	2.1	Search (1024X32) 6.302		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	47.0	0.7	Inc. seg. avg. 8.298		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		nlags: 256 t_cohere infinite		dr window (ns/s)	-0.011 0.011
amp/frq (%)	28.5	1.2	Inc. frq. avg. 8.197		Data rate(Mb/s): 2048		ion window (TEC)		0.00 0.00	
X: az 80.6 el 39.7 pa -41.9	P: az 59.7 el 22.8 pa -60.1		u, v (fr/asec) 2520.219 972.249		simultaneous interpolator					
Control file: cf_1234_gmva	Input file: /Exps/c241c/v2/3mm/1234/No0232//XP..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232//XP.W.38.3MP1EA							

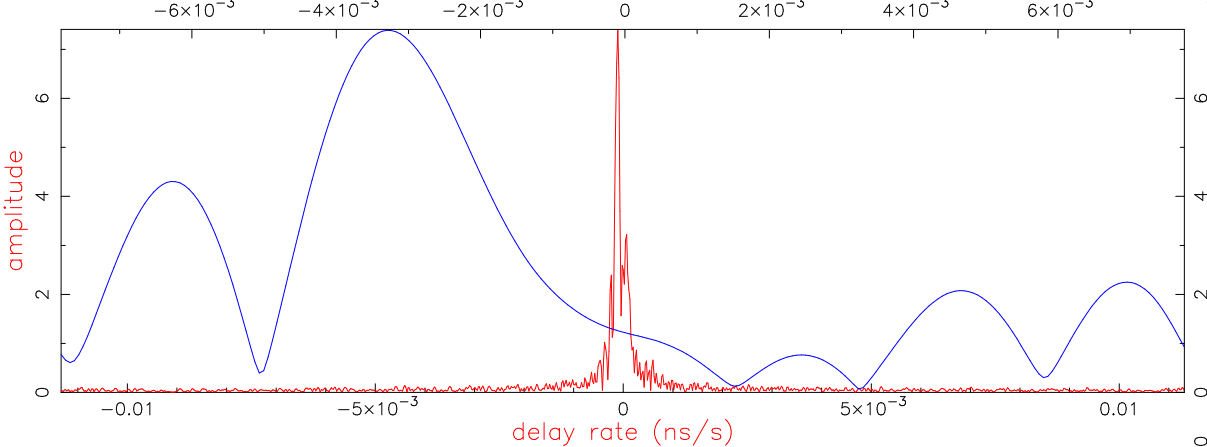
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, XP

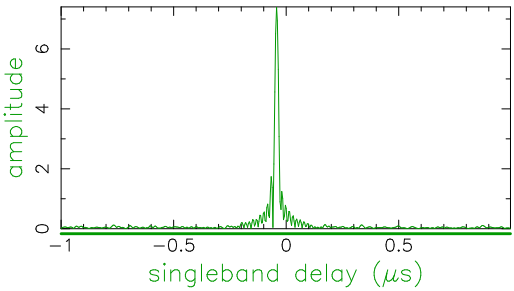
ONSALA60 - PICOVEL, fgroup W, pol RR

multiband delay (μ s)

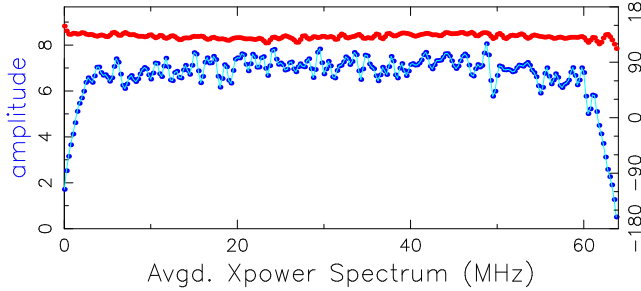


Fringe quality 3

SNR 271.0
 Int time 178.950
 Amp 7.409
 Phase 41.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.042340
 MBD -0.003261
 Fringe rate (Hz)
 -0.009730
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

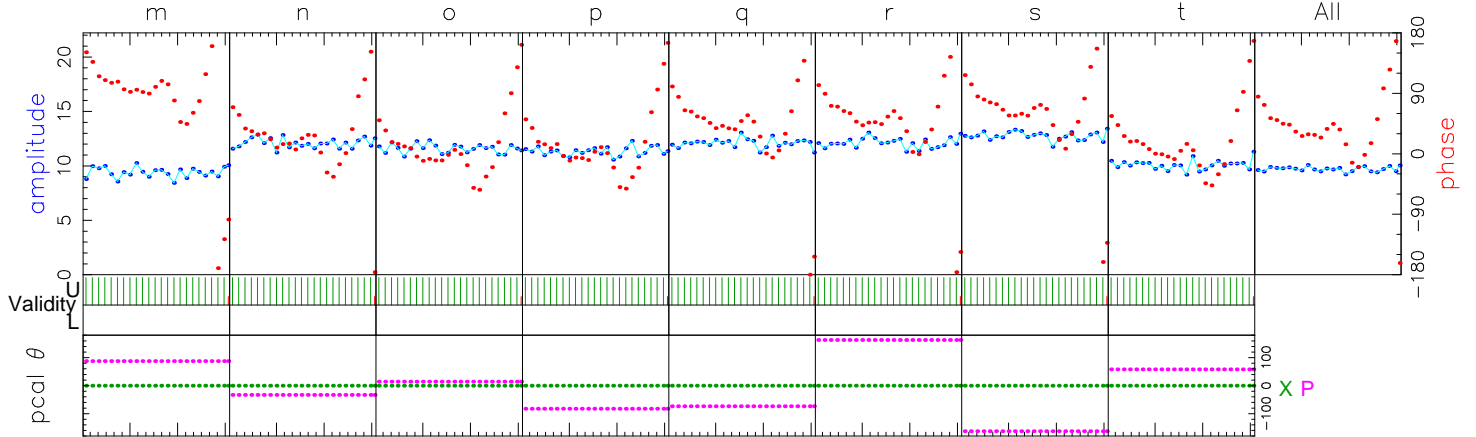


delay rate (ns/s)



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102652
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
X	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58		
X	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	5.40320952844E+03	Apriori delay (usec)		5.40325966449E+03	Resid mbdelay (usec)	-3.26104E-03	+/-	4.0E-06	
Sband delay (usec)	5.40321732449E+03	Apriori clock (usec)		1.1377654E+02	Resid sbdelay (usec)	-4.23400E-02	+/-	3.2E-05	
Phase delay (usec)	5.40325966583E+03	Apriori clockrate (us/s)		6.1838598E-07	Resid phdelay (usec)	1.34358E-06	+/-	1.4E-08	
Delay rate (us/s)	-3.51019273387E-01	Apriori rate (us/s)		-3.51019160431E-01	Resid rate (us/s)	-1.12955E-07	+/-	1.3E-10	
Total phase (deg)		221.2	Apriori accel (us/s/s)		-1.17550173465E-05	Resid phase (deg)	41.7	+/-	0.4

ph/seg (deg) 45.2 1.0 Theor. Amplitude 7.409 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 31.1 1.8 Search (1024X32) 7.314 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.9 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.7 1.0 Inc. seg. avg. 9.701 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 X: az 80.6 el 39.7 pa -41.9 P: az 59.7 el 22.8 pa -60.1 u,v (fr/asec) 2520.219 972.249 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XP.W.53.3MP1EA simultaneous interpolator

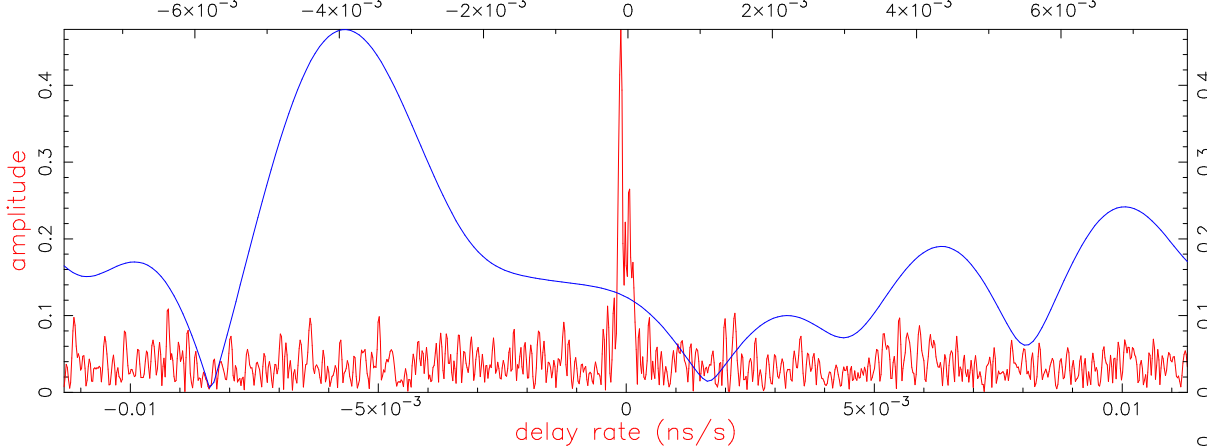
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, XP

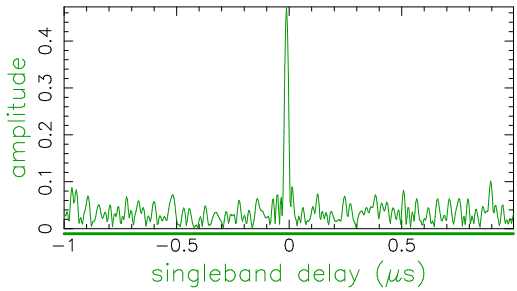
ONSALA60 - PICOVEL, fgroup W, pol LR

multiband delay (μ s)

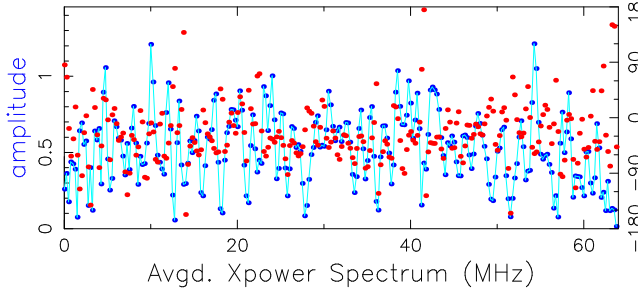


Fringe quality 7

SNR 17.3
 Int time 178.950
 Amp 0.473
 Phase -123.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.011990
 MBD -0.003933
 Fringe rate (Hz)
 -0.009492
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

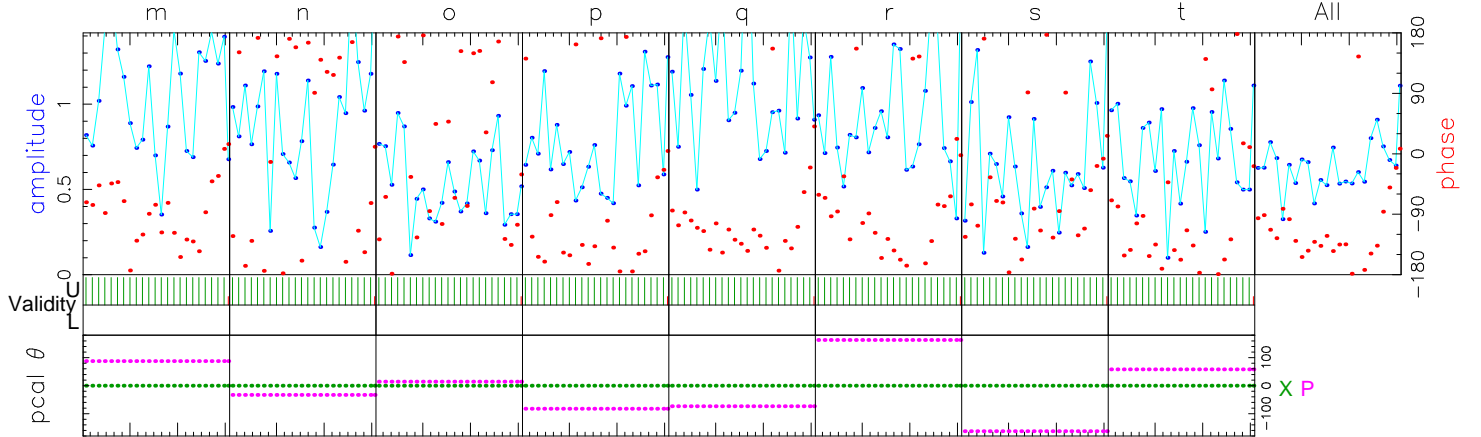


delay rate (ns/s)



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102655
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.3	-175.7	-169.8	-140.4	-119.1	-117.7	-85.7	-137.4	Phase	-123.8
	0.8	0.6	0.2	0.5	0.9	0.6	0.4	0.4	Ampl.	0.5
	252.5	253.3	250.7	254.0	254.1	253.1	254.5	254.1	Sbd box	253.9
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	5.40324010663E+03	Apriori delay (usec)		5.40325966449E+03	Resid mbdelay (usec)	-3.93285E-03	+/-	6.3E-05	
Sband delay (usec)	5.40324767449E+03	Apriori clock (usec)		1.1377654E+02	Resid sbdelay (usec)	-1.19900E-02	+/-	5.0E-04	
Phase delay (usec)	5.40325966049E+03	Apriori clockrate (us/s)		6.1838598E-07	Resid phdelay (usec)	-3.99302E-06	+/-	2.1E-07	
Delay rate (us/s)	-3.51019270626E-01	Apriori rate (us/s)		-3.51019160431E-01	Resid rate (us/s)	-1.10195E-07	+/-	2.1E-09	
Total phase (deg)		55.7	Apriori accel (us/s/s)		-1.17550173465E-05	Resid phase (deg)	-123.8	+/-	6.6

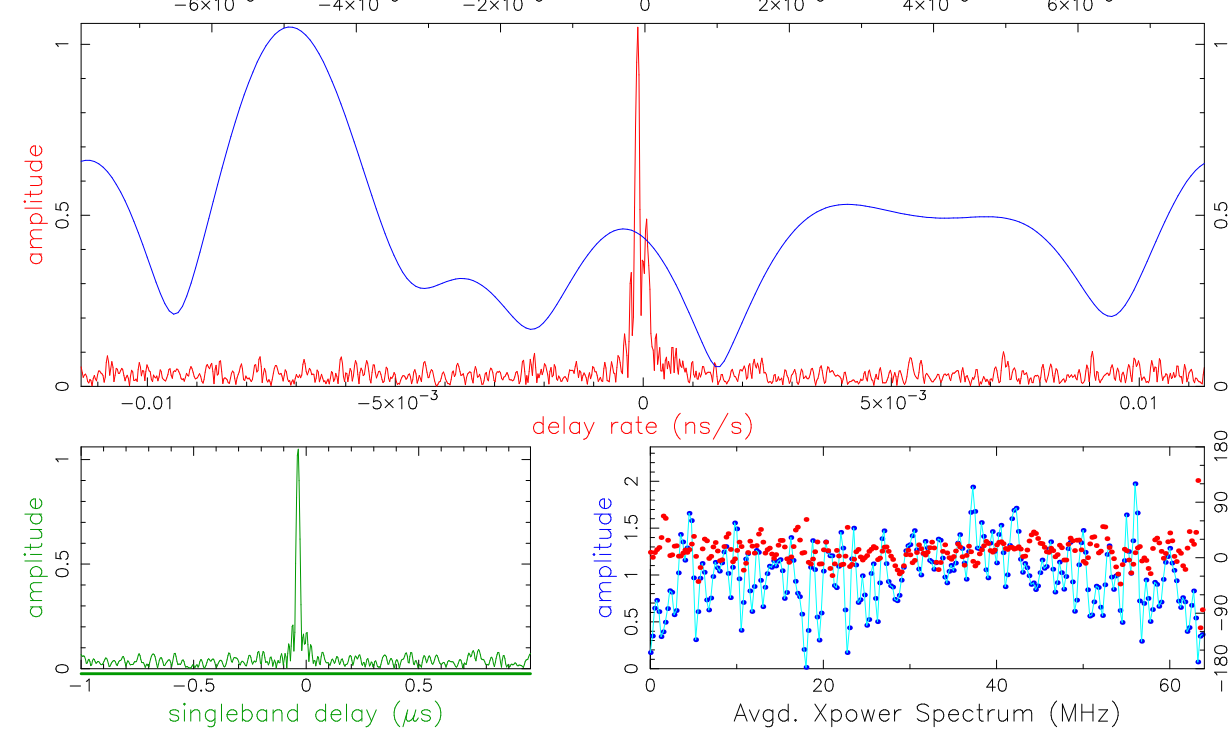
ph/seg (deg) 43.4 16.2 Search (1024X32) 0.472 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.9 28.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.6 9.4 Inc. seg. avg. 0.606 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.1 16.4 Inc. frq. avg. 0.541 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 X: az 80.6 el 39.7 pa -41.9 P: az 59.7 el 22.8 pa -60.1 u,v (fr/asec) 2520.219 972.249 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XP.W.70.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, XP

ONSALA60 - PICOVEL, fgroup W, pol RL

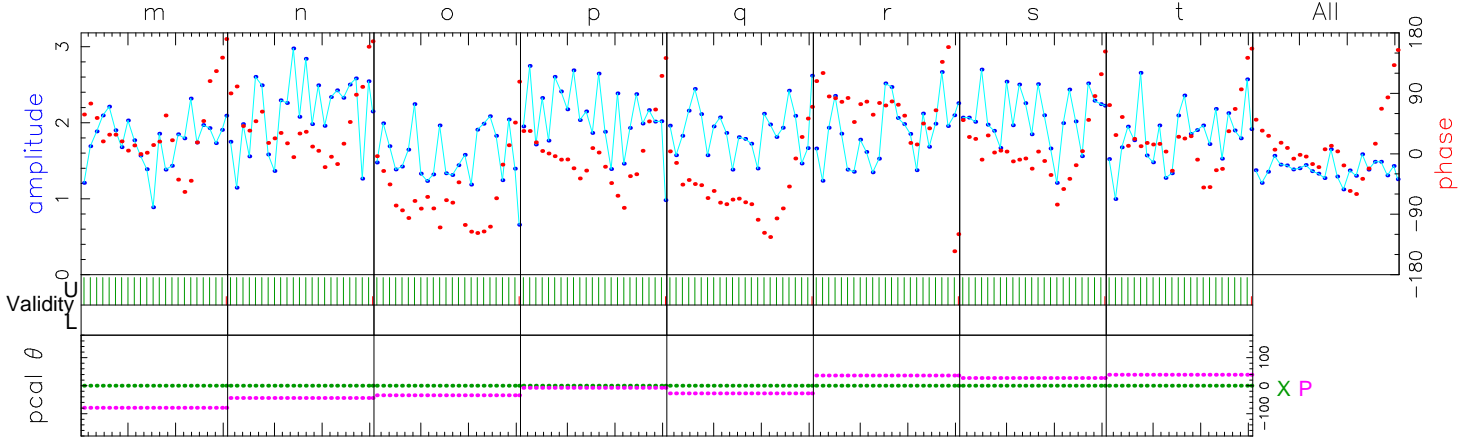


Fringe quality 5

SNR 38.8
 Int time 178.950
 Amp 1.061
 Phase 6.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.036499
 MBD -0.004959
 Fringe rate (Hz)
 -0.009596
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102702
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
X	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39		
X	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	5.40322345551E+03	Apriori delay (usec)	5.40325966449E+03	Resid mbdelay (usec)	-4.95898E-03	+/-	2.8E-05
Sband delay (usec)	5.40322316574E+03	Apriori clock (usec)	1.1377654E+02	Resid sbdelay (usec)	-3.64988E-02	+/-	2.2E-04
Phase delay (usec)	5.40325966470E+03	Apriori clockrate (us/s)	6.1838598E-07	Resid phdelay (usec)	2.11874E-07	+/-	9.5E-08
Delay rate (us/s)	-3.51019271828E-01	Apriori rate (us/s)	-3.51019160431E-01	Resid rate (us/s)	-1.11397E-07	+/-	9.2E-10
Total phase (deg)	186.1	Apriori accel (us/s/s)	-1.17550173465E-05	Resid phase (deg)	6.6	+/-	3.0

ph/seg (deg)	45.6	RMS	7.2	Theor.	1.061 +/- 0.027	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	32.9	Search (1024X32)	1.049	Amplitude	1.061 +/- 0.027	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	52.2	Interp.	0.000	Search	1.049	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	37.2	Inc. seg. avg.	1.379	Inc. frq. avg.	1.412	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	1.412			Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 80.6 el 39.7 pa -41.9 P: az 59.7 el 22.8 pa -60.1 u, v (fr/asec) 2520.219 972.249 simultaneous interpolator

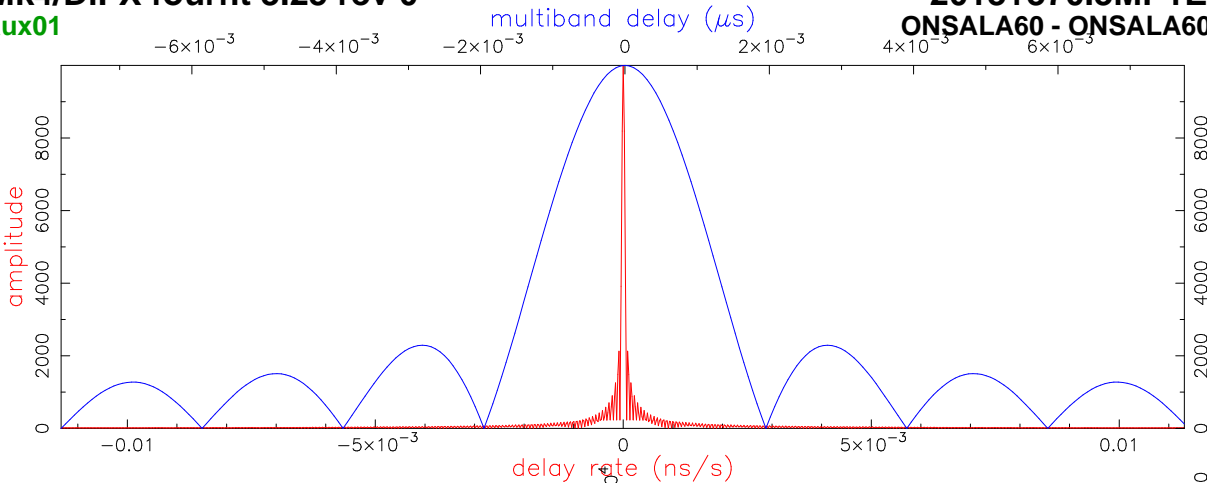
Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XP.W.82.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

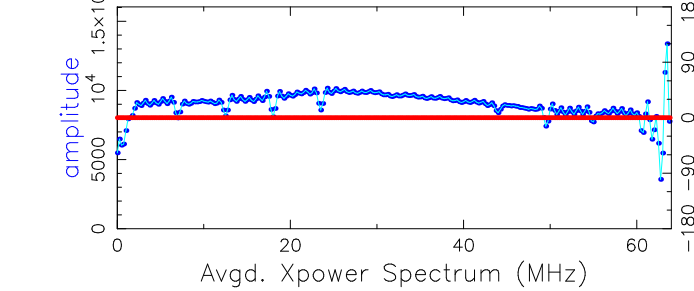
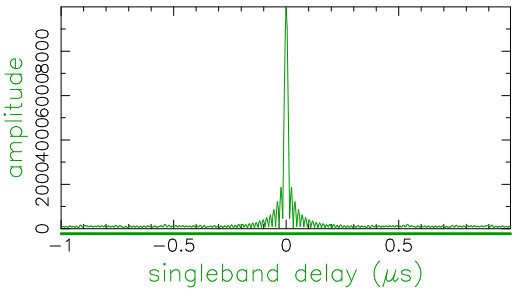
2013+370.3MP1EA, No0232, XX

ONSALA60 - ONSALA60, fgroup W, pol LL



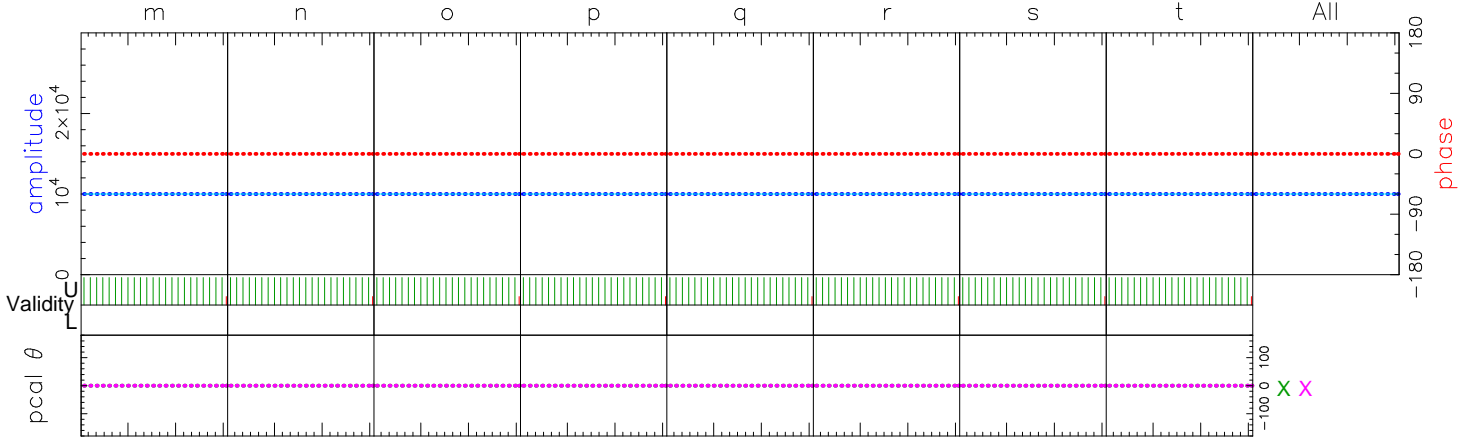
Fringe quality 9

SNR 365816.7
 Int time 178.950
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241c
 Yr:day 1234
 Start 2024:112
 Stop 2024:112
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102648
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
X	0	0	0	0	0	0	0	0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

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 +/- 2.4E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 1.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.8E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

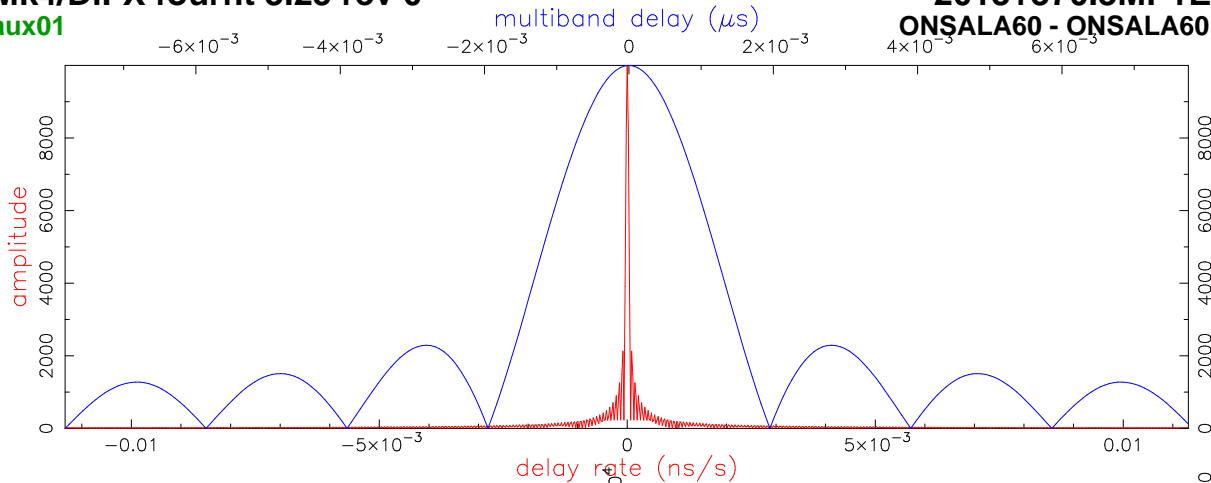
RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 X: az 80.6 el 39.7 pa -41.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/XX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/XX.W.37.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

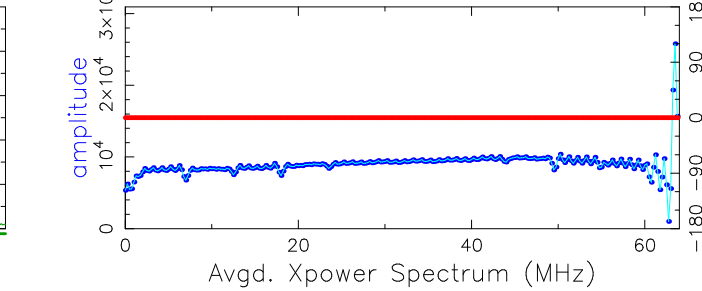
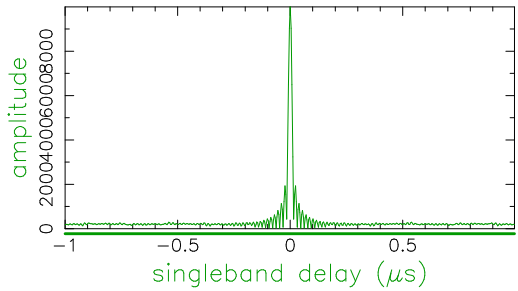
2013+370.3MP1EA, No0232, XX

ONSALA60 - ONSALA60, fgroup W, pol RR



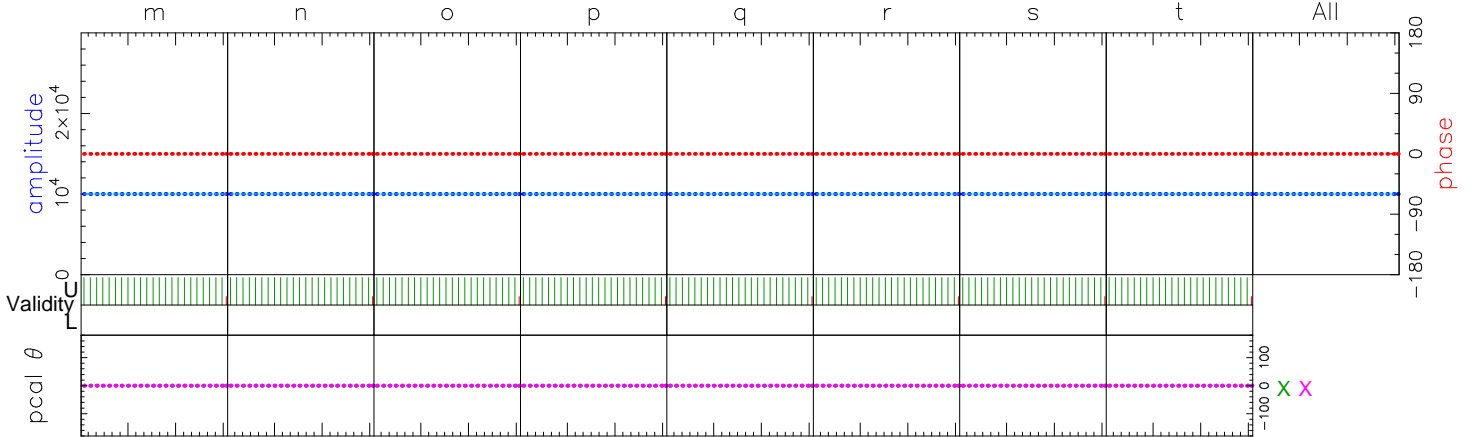
Fringe quality 9

SNR 365816.7
 Int time 178.950
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102653
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
X	0	0	0	0	0	0	0	0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

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 +/- 2.4E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 1.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.8E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

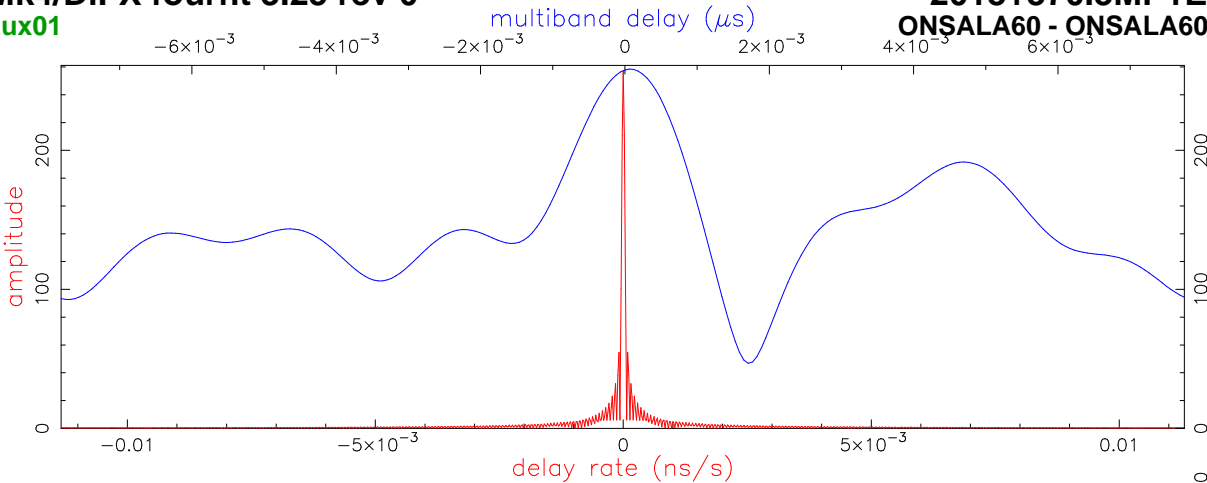
RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 X: az 80.6 el 39.7 pa -41.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XX.W.55.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

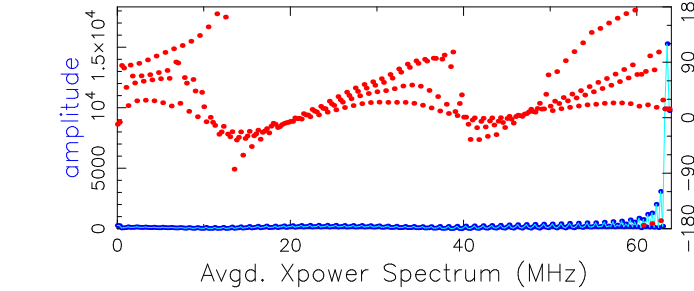
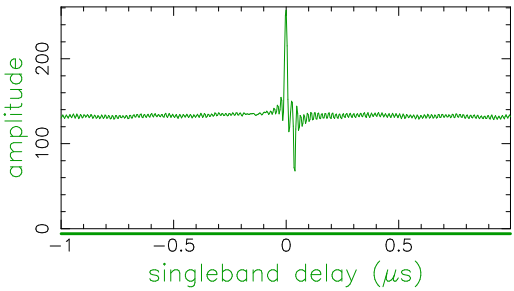
aux01

2013+370.3MP1EA, No0232, XX

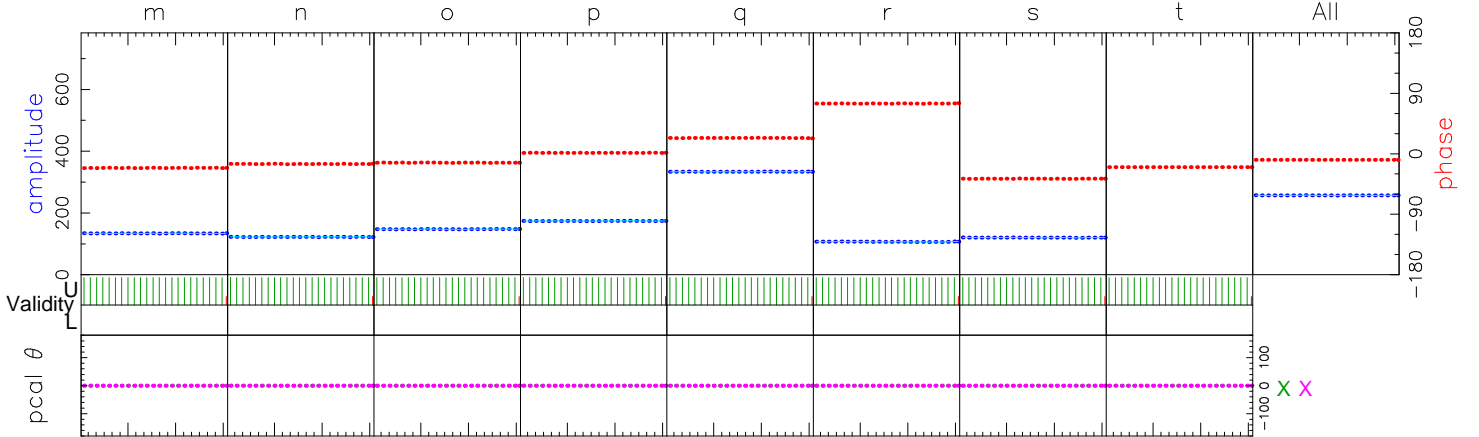
ONSALA60 - ONSALA60, fgroup W, pol LR



Fringe quality 5
 Error code G
 SNR 9552.9
 Int time 178.950
 Amp 261.139
 Phase -9.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.001504
 MBD 0.000176
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102654
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-21.0	-15.1	-13.3	1.4	23.5	74.8	-37.1	-19.9		-9.0
	134.1	122.4	147.6	174.1	333.7	106.9	120.3	1107.2		280.8
	257.4	266.2	265.2	257.4	258.1	255.5	264.6	264.7		256.6
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
X	0	0	0	0	0	0	0	0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) 1.76093750000E-04 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.76094E-04 +/- 1.1E-07
 Sband delay (usec) -1.50425000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -1.50425E-03 +/- 9.0E-07
 Phase delay (usec) -2.90441354676E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -2.90441E-07 +/- 3.9E-10
 Delay rate (us/s) 1.41711523917E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 1.41712E-12 +/- 3.7E-12
 Total phase (deg) -9.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -9.0 +/- 0.0

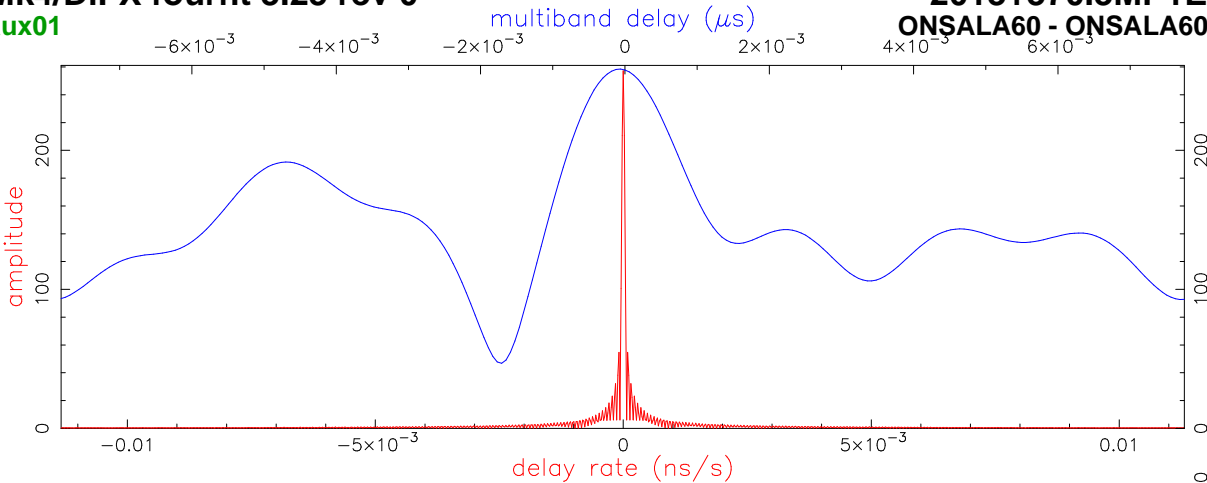
RMS Theor. Amplitude 261.139 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 257.867 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.5 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 39.4 0.0 Inc. seg. avg. 257.222 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 122.6 0.0 Inc. frq. avg. 280.797 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 X: az 80.6 el 39.7 pa -41.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/XX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/XX.W.64.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

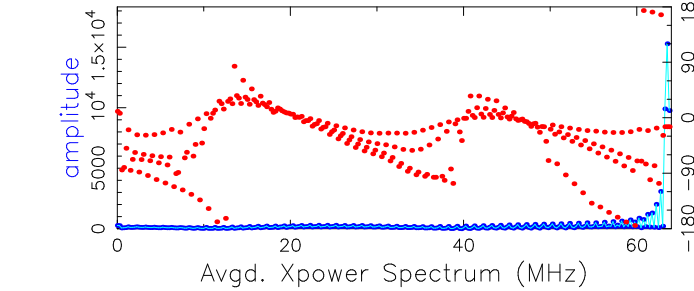
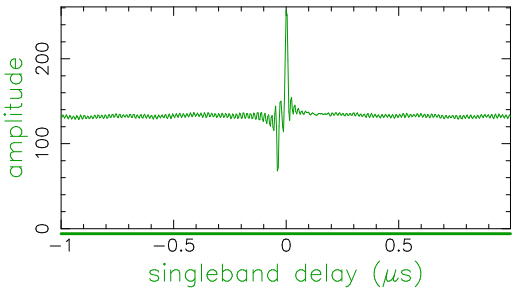
aux01

2013+370.3MP1EA, No0232, XX

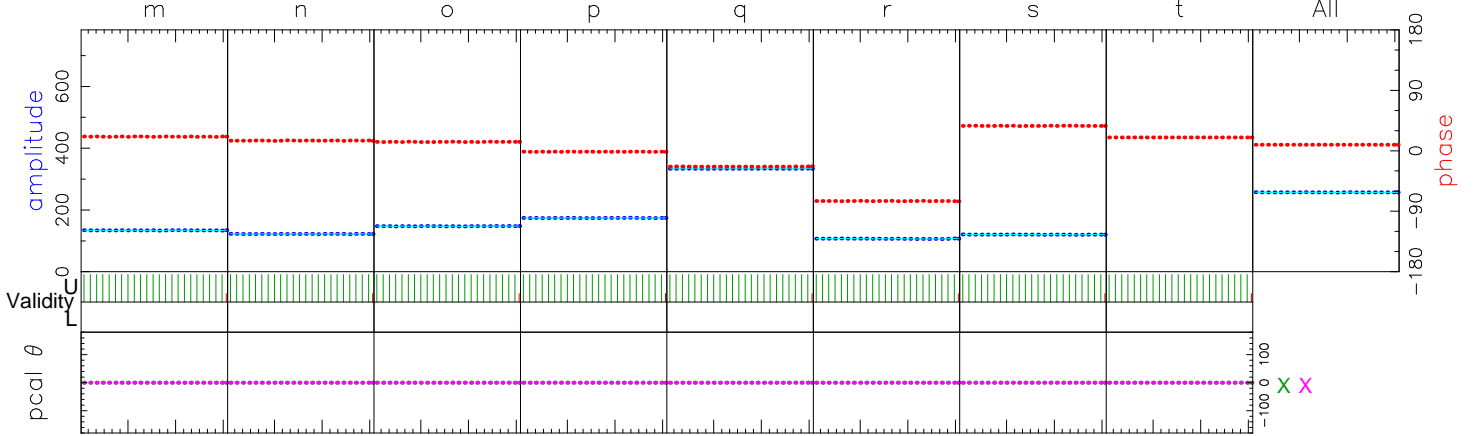
ONSALA60 - ONSALA60, fgroup W, pol RL



Fringe quality 5
 Error code G
 SNR 9552.9
 Int time 178.950
 Amp 261.139
 Phase 9.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.001504
 MBD -0.000176
 Fringe rate (Hz)
 -0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102656
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
X	0	0	0	0	0	0	0	0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) -1.76093750000E-04 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -1.76094E-04 +/- 1.1E-07
 Sband delay (usec) 1.50425000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 1.50425E-03 +/- 9.0E-07
 Phase delay (usec) 2.90441354796E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.90441E-07 +/- 3.9E-10
 Delay rate (us/s) -1.41711523917E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -1.41712E-12 +/- 3.7E-12
 Total phase (deg) 9.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 9.0 +/- 0.0

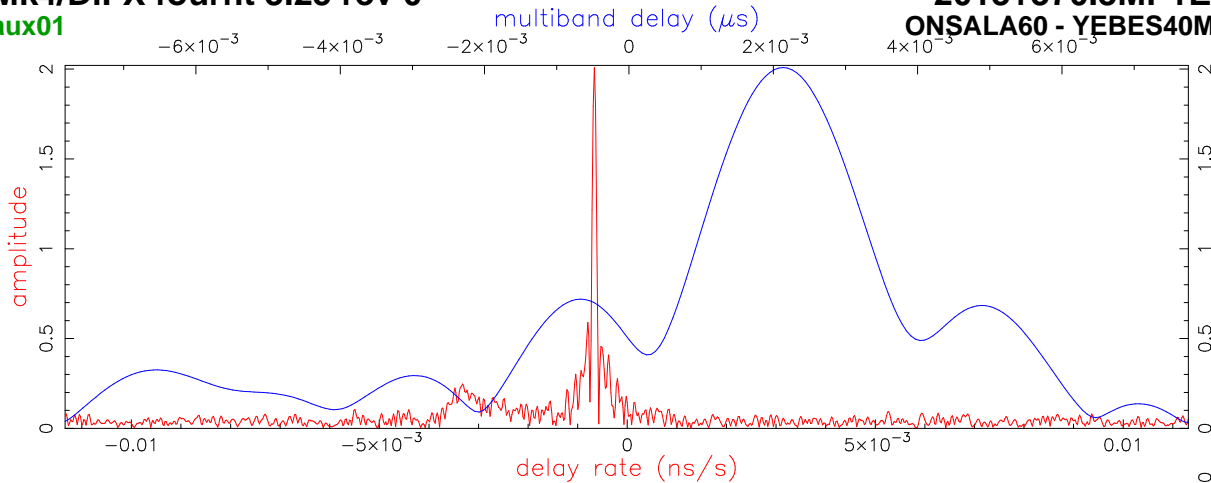
RMS Theor. Amplitude 261.139 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 257.867 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.5 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 39.4 0.0 Inc. seg. avg. 257.222 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 122.6 0.0 Inc. frq. avg. 280.797 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 X: az 80.6 el 39.7 pa -41.9 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/XX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/XX.W.73.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

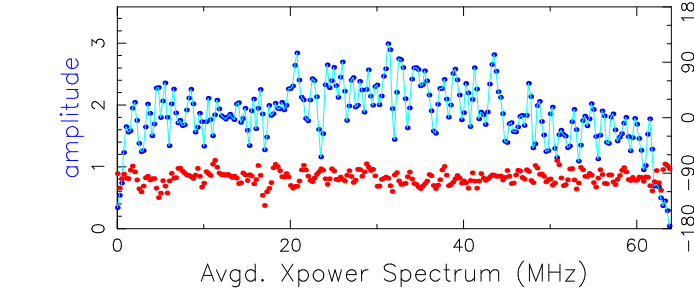
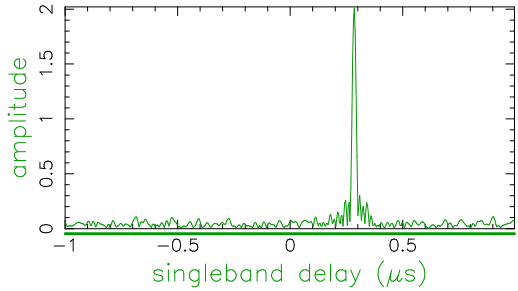
2013+370.3MP1EA, No0232, XY

ONŞALA60 - YEBES40M, fgroup W, pol LL



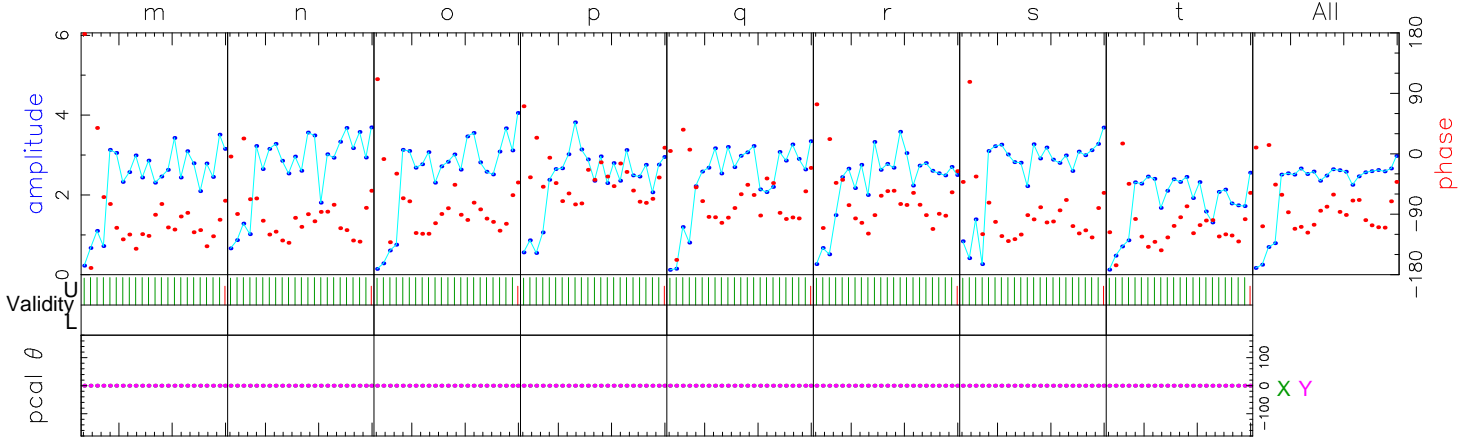
Fringe quality 3

SNR 70.3
 Int time 162.292
 Amp 2.021
 Phase -87.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.284247
 MBD 0.002114
 Fringe rate (Hz)
 -0.057220
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004017.41
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102648
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.5	-99.8	-87.7	-43.6	-72.3	-75.7	-98.8	-110.2	Phase	-87.1
	2.1	2.4	2.3	2.1	2.1	2.1	2.4	1.6	Ampl.	2.1
	329.8	329.9	329.8	330.2	329.7	329.2	329.7	329.0	Sbd box	329.8
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	4.87041982423E+03	Apriori delay (usec)	4.87013646062E+03	Resid mbdelay (usec)	2.11361E-03	+/-	1.5E-05
Sband delay (usec)	4.87042070762E+03	Apriori clock (usec)	2.2346887E+02	Resid sbdelay (usec)	2.84247E-01	+/-	1.2E-04
Phase delay (usec)	4.87013645781E+03	Apriori clockrate (us/s)	2.6723920E-02	Resid phdelay (usec)	-2.80734E-06	+/-	5.3E-08
Delay rate (us/s)	-3.03958517862E-01	Apriori rate (us/s)	-3.03957853599E-01	Resid rate (us/s)	-6.64263E-07	+/-	5.6E-10
Total phase (deg)	171.4	Apriori accel (us/s/s)	-1.15371779916E-05	Resid phase (deg)	-87.1	+/-	1.6

ph/seg (deg)	RMS 35.7	Theor. 3.9	Amplitude Search (1024X32)	2.021 +/- 0.029	1.953	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	41.0	6.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	24.1	2.3	Inc. seg. avg.	2.192	2.143	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	12.8	4.0	Inc. frq. avg.	2.143	2.143	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

X: az 80.6 el 39.7 pa -41.9 Y: az 61.1 el 24.8 pa -56.9 u,v (fr/asec) 2181.016 656.965 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XY..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XY.W.35.3MP1EA

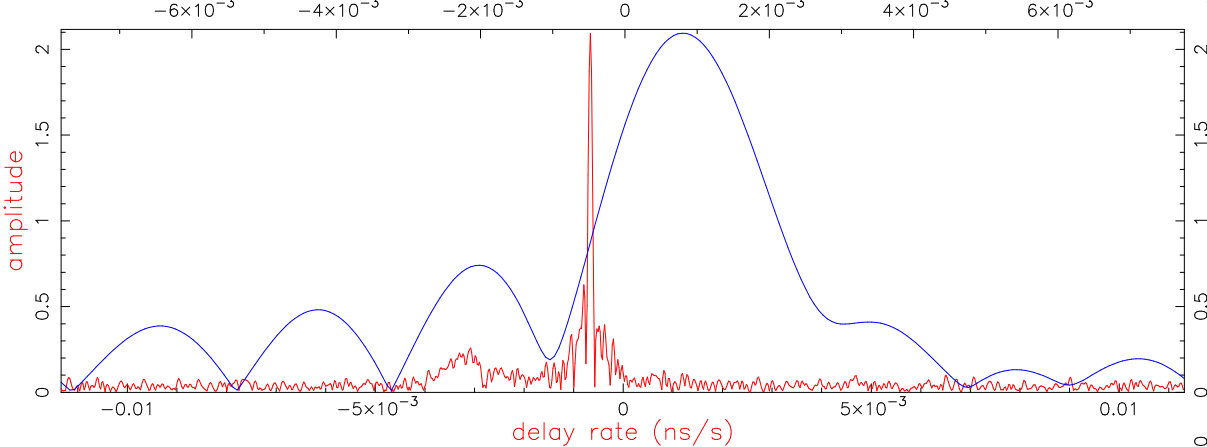
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, XY

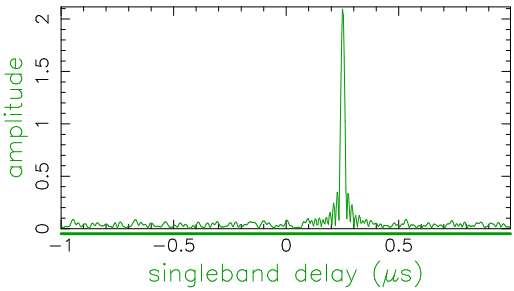
ONŞALA60 - YEŞES40M, fgroup W, pol RR

multiband delay (μ s)

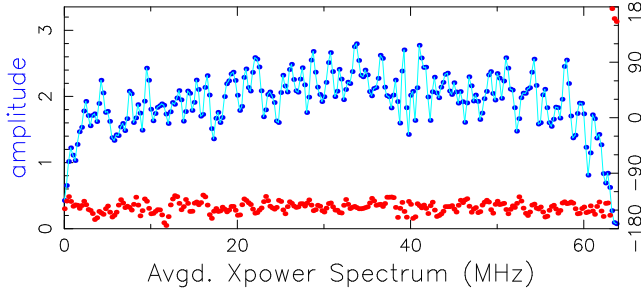


Fringe quality 4

SNR 73.6
 Int time 162.292
 Amp 2.117
 Phase -140.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.251295
 MBD 0.000848
 Fringe rate (Hz)
 -0.057261
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

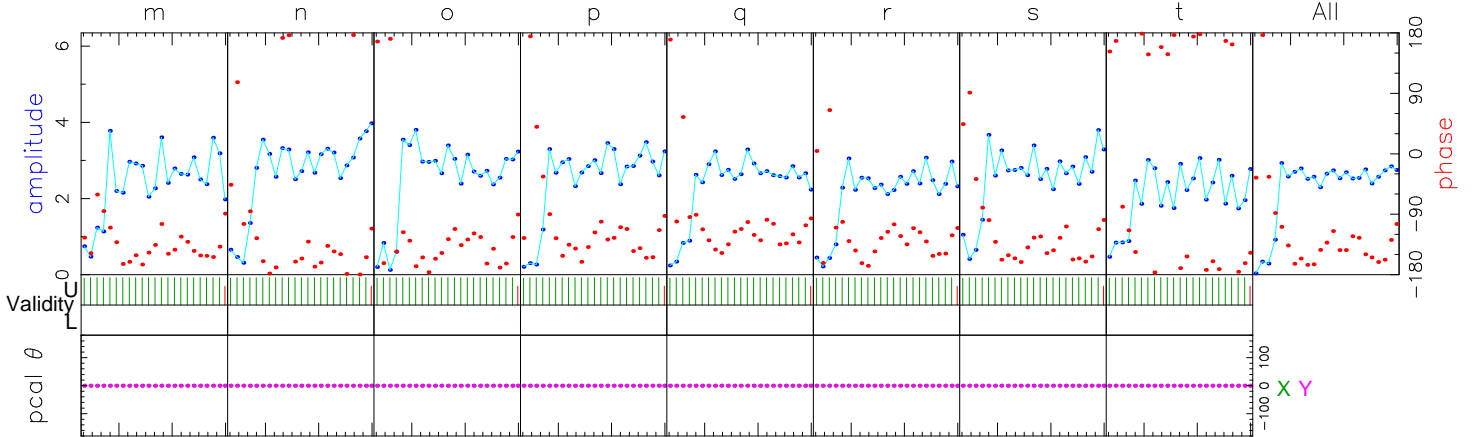


delay rate (ns/s)



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004017.41
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102653
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-137.1	-157.9	-140.3	-127.8	-119.2	-131.0	-134.8	-176.8	Phase	-140.1
	2.2	2.4	2.3	2.3	2.2	1.9	2.2	1.9	Ampl.	2.2
	321.4	320.9	321.7	321.6	321.3	320.8	321.3	320.3	Sbd box	321.3
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	4.87038730829E+03	Apriori delay (usec)	4.87013646062E+03	Resid mbdelay (usec)	8.47668E-04	+/-	1.5E-05
Sband delay (usec)	4.87038775587E+03	Apriori clock (usec)	2.2346887E+02	Resid sbdelay (usec)	2.51295E-01	+/-	1.2E-04
Phase delay (usec)	4.87013645610E+03	Apriori clockrate (us/s)	2.6723920E-02	Resid phdelay (usec)	-4.51850E-06	+/-	5.0E-08
Delay rate (us/s)	-3.03958518343E-01	Apriori rate (us/s)	-3.03957853599E-01	Resid rate (us/s)	-6.64743E-07	+/-	5.3E-10
Total phase (deg)	118.3	Apriori accel (us/s/s)	-1.15371779916E-05	Resid phase (deg)	-140.1	+/-	1.6

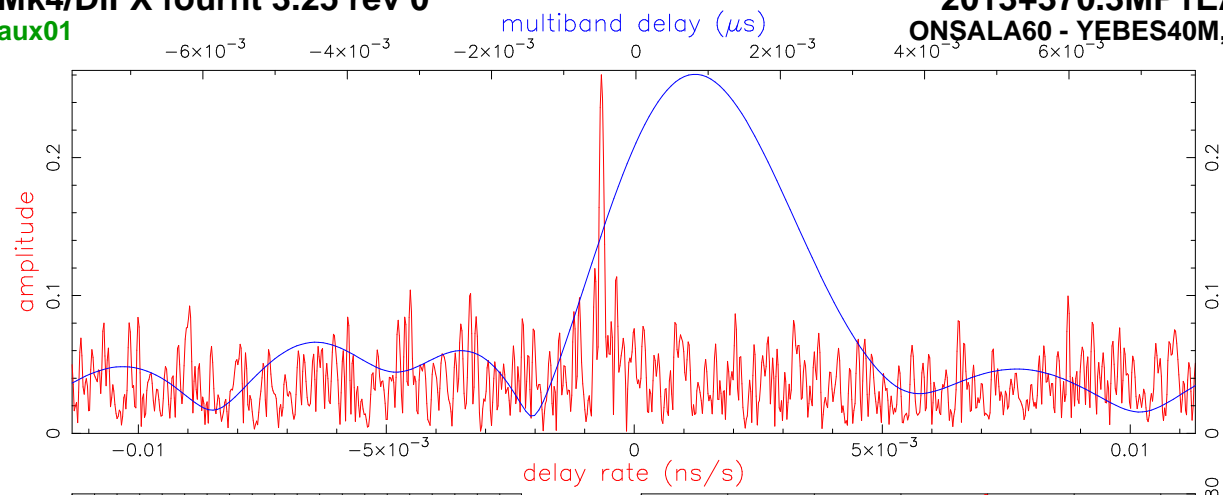
ph/seg (deg)	38.0	Theor.	3.7	Amplitude	2.117 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	41.7		6.5	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	19.9		2.2	Inc. seg. avg.	2.242	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	8.4		3.8	Inc. frq. avg.	2.186	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
X: az 80.6 el 39.7 pa -41.9		Y: az 61.1 el 24.8 pa -56.9		u, v (fr/asec)	2181.016 656.965	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/c241c/v2/3mm/1234/No0232//XY..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232//XY.W.56.3MP1EA					simultaneous interpolator	

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, XY

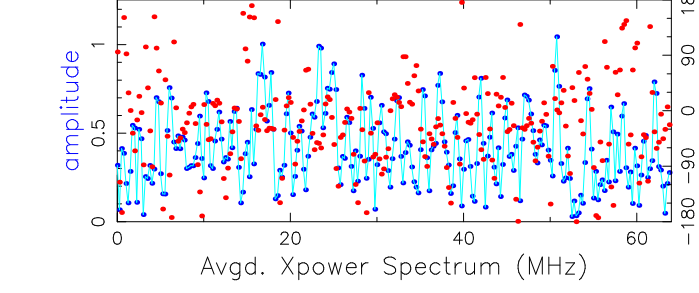
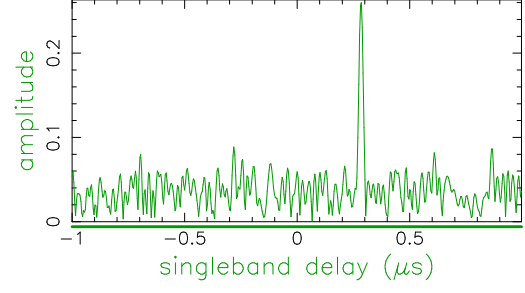
ONŞALA60 - YEŞES40M, fgroup W, pol LR



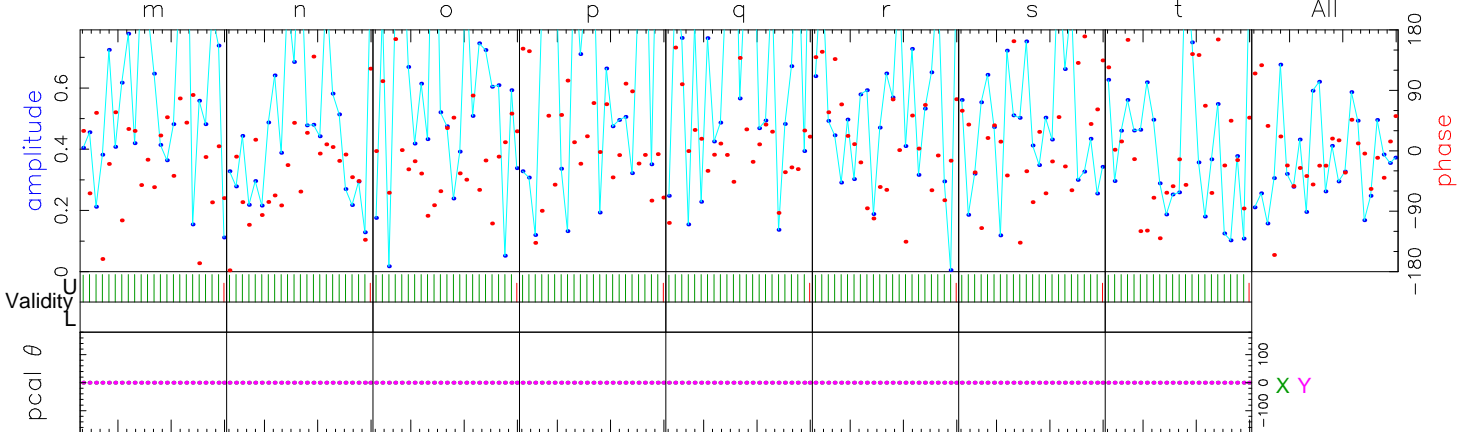
Fringe quality 9

SNR 9.2
 Int time 162.292
 Amp 0.263
 Phase -5.4
 PFD 1.0e-11
 Delays (us)
 SBD 0.283571
 MBD 0.000748
 Fringe rate (Hz) -0.058063
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004017.41
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102655
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-2.4	-24.9	-26.0	7.1	3.4	19.0	-8.1	-60.5		-5.4
	0.3	0.3	0.3	0.4	0.4	0.2	0.2	0.1		0.3
	331.4	328.9	330.3	329.3	329.4	327.0	201.5	206.7	Sbd box	329.6
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	4.87041845816E+03			Apriori delay (usec)	4.87013646062E+03			Resid mbdelay (usec)	7.47543E-04	+/- 1.2E-04
Sband delay (usec)	4.87042003137E+03			Apriori clock (usec)	2.2346887E+02			Resid sbdelay (usec)	2.83571E-01	+/- 9.4E-04
Phase delay (usec)	4.87013646045E+03			Apriori clockrate (us/s)	2.6723920E-06			Resid phdelay (usec)	-1.74037E-07	+/- 4.0E-07
Delay rate (us/s)	-3.03958527656E-01			Apriori rate (us/s)	-3.03957853599E-01			Resid rate (us/s)	-6.74057E-07	+/- 4.3E-09
Total phase (deg)		253.1		Apriori accel (us/s/s)	-1.15371779916E-05			Resid phase (deg)	-5.4	+/- 12.5

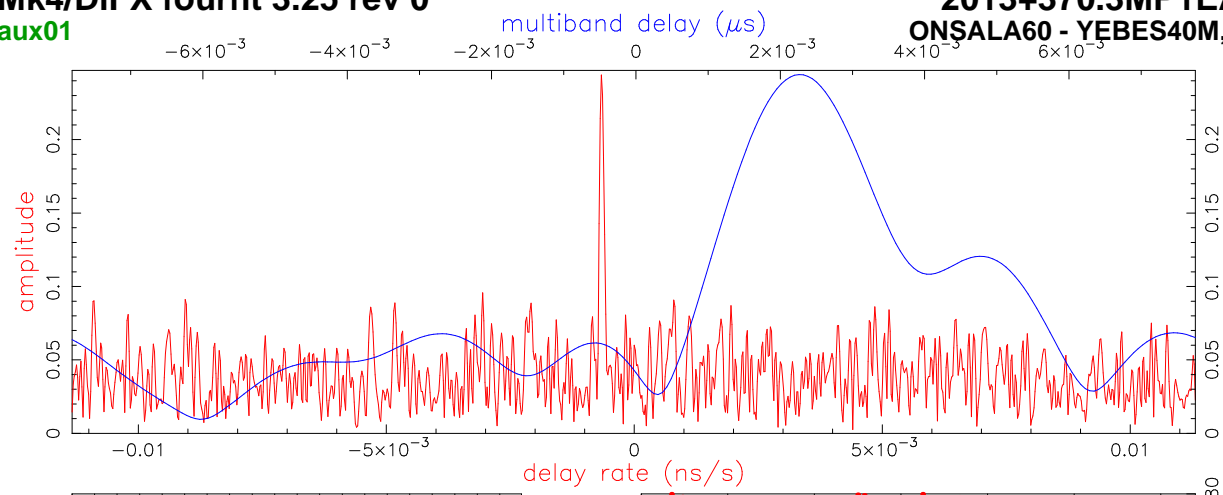
ph/seg (deg) 57.2 30.0 Search (1024X32) 0.253 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.6 52.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.9 17.7 Inc. seg. avg. 0.323 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.8 30.9 Inc. frq. avg. 0.260 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 X: az 80.6 el 39.7 pa -41.9 Y: az 61.1 el 24.8 pa -56.9 u,v (fr/asec) 2181.016 656.965 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XY..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XY.W.68.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, XY

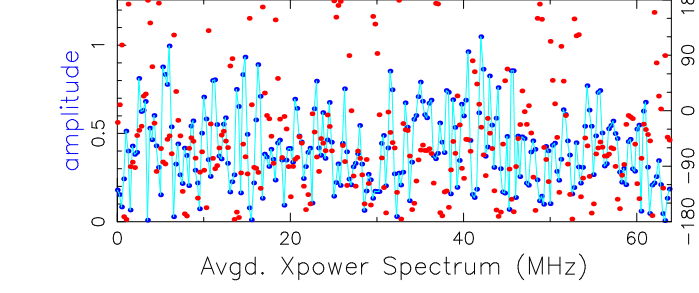
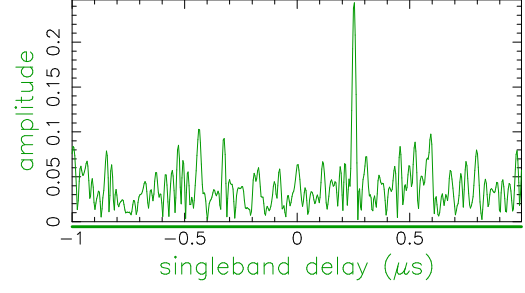
ONŞALA60 - YEŞES40M, fgroup W, pol RL



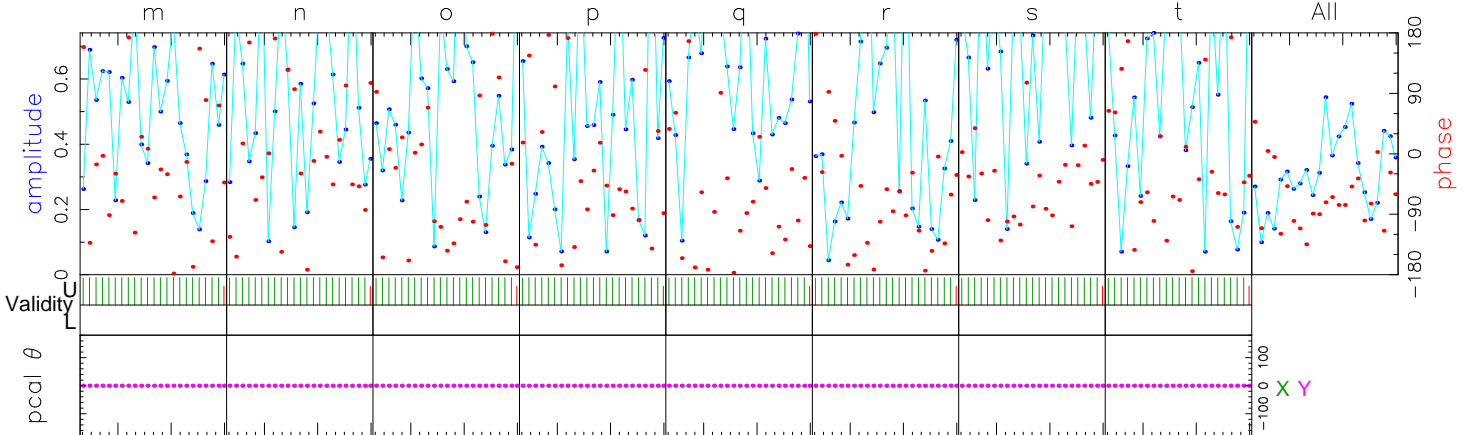
Fringe quality 9

SNR 8.6
 Int time 162.292
 Amp 0.247
 Phase -70.2
 PFD 1.5e-09
 Delays (us)
 SBD 0.252501
 MBD 0.002207
 Fringe rate (Hz)
 -0.058189
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004017.41
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102701
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-70.8	-35.4	-97.8	-73.6	-94.8	-96.6	-50.2	-60.5	Phase	-70.2
	0.2	0.2	0.1	0.2	0.3	0.3	0.5	0.3	Ampl.	0.2
	381.9	172.5	149.5	19.1	321.7	321.1	322.0	319.5	Sbd box	321.6
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	4.87038866785E+03	Apriori delay (usec)		4.87013646062E+03	Resid mbdelay (usec)		2.20723E-03	+/-	1.3E-04	
Sband delay (usec)	4.87038896212E+03	Apriori clock (usec)		2.2346887E+02	Resid sbdelay (usec)		2.52501E-01	+/-	1.0E-03	
Phase delay (usec)	4.87013645836E+03	Apriori clockrate (us/s)		2.6723920E-02	Resid phdelay (usec)		-2.26516E-06	+/-	4.3E-07	
Delay rate (us/s)	-3.03958529113E-01	Apriori rate (us/s)		-3.03957853599E-01	Resid rate (us/s)		-6.75513E-07	+/-	4.6E-09	
Total phase (deg)	188.2		Apriori accel (us/s/s)		-1.15371779916E-05	Resid phase (deg)		-70.2	+/-	13.3

ph/seg (deg)	45.6	Theor.	32.0	Amplitude	0.247 +/- 0.029	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
amp/seg (%)	53.9	45.6	32.0	Search (1024X32)	0.237	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	25.1	18.9	13.9	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	46.9	32.9	22.9	Inc. seg. avg.	0.273	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.248	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 80.6 el 39.7 pa -41.9 Y: az 61.1 el 24.8 pa -56.9 u,v (fr/asec) 2181.016 656.965 simultaneous interpolator

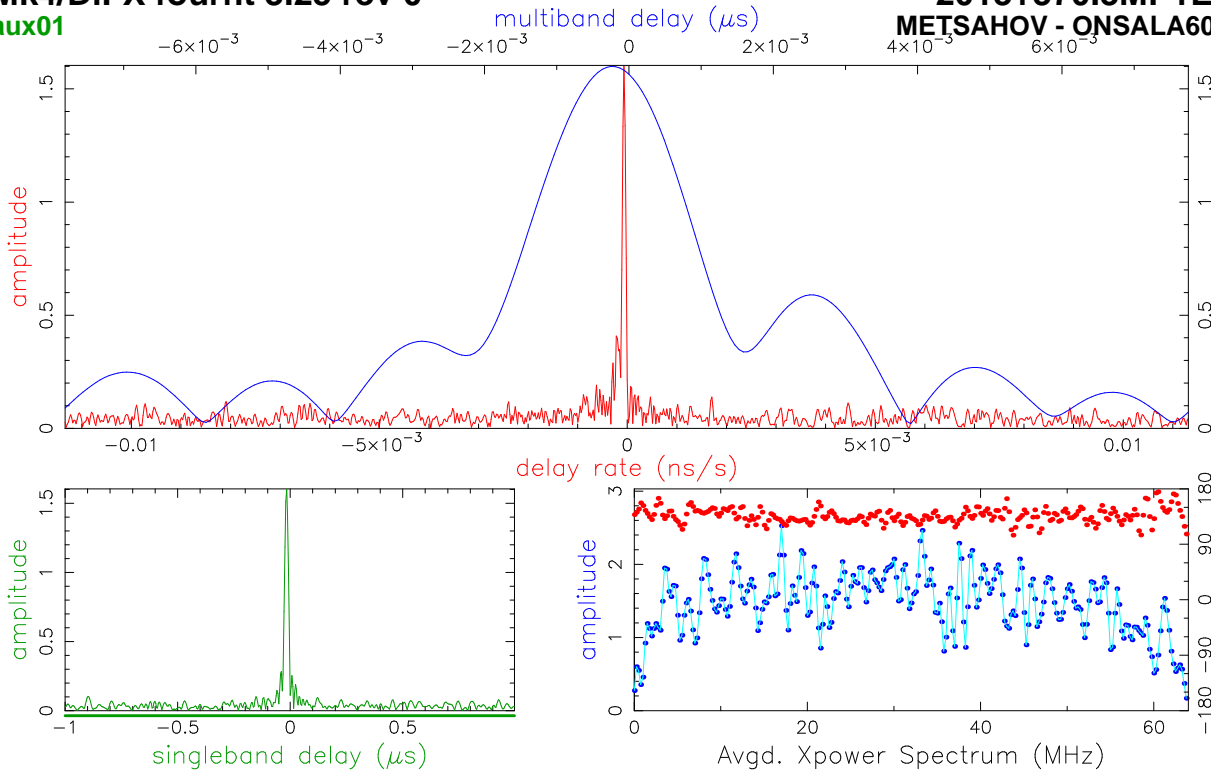
Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//XY..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//XY.W.78.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, ZX

METSAHOV - ONSALA60, fgroup W, pol LL

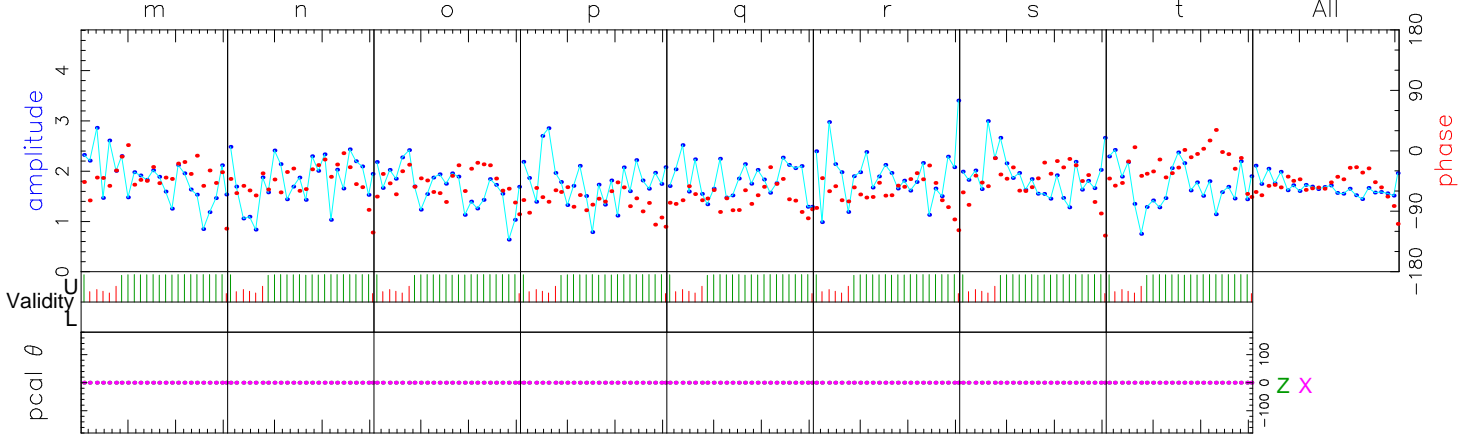


Fringe quality 7

SNR 54.8
 Int time 156.008
 Amp 1.604
 Phase -49.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.016315
 MBD -0.000240
 Fringe rate (Hz)
 -0.005973
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102645
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.3	-40.7	-46.3	-75.0	-69.9	-63.0	-43.4	-19.0	Phase	-49.4
	1.7	1.7	1.5	1.7	1.7	1.8	1.7	1.6	Ampl.	1.7
	252.7	252.5	252.9	252.8	253.1	253.1	253.1	252.8	Sbd box	252.8
U/L	326/0	326/0	326/0	326/0	326/0	326/0	326/0	326/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.67049744697E+03					1.67051331230E+03			Resid mbdelay (usec)	-2.40331E-04 +/- 2.0E-05
Sband delay (usec)	1.67049699755E+03					-1.1265385E+02			Resid sbdelay (usec)	-1.63148E-02 +/- 1.6E-04
Phase delay (usec)	1.67051331071E+03					-6.0676312E-07			Resid phdelay (usec)	-1.59267E-06 +/- 6.7E-08
Delay rate (us/s)	-1.03939744515E-01					-1.03939675180E-01			Resid rate (us/s)	-6.93352E-08 +/- 7.0E-10
Total phase (deg)			210.4			-7.73392245091E-06			Resid phase (deg)	-49.4 +/- 2.1

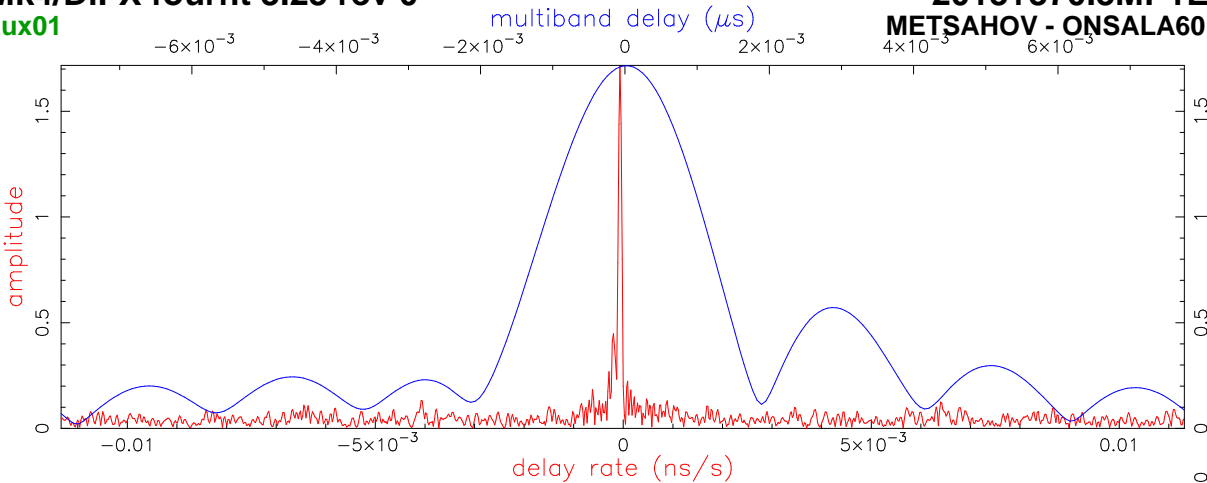
ph/seg (deg) 16.2 4.9 Search (1024X32) 1.560 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 10.3 8.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.5 3.0 Inc. seg. avg. 1.657 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.0 5.2 Inc. frq. avg. 1.676 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Z: az 93.6 el 46.2 pa -38.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) 742.101 -286.203 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/ZX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/ZX.W.30.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

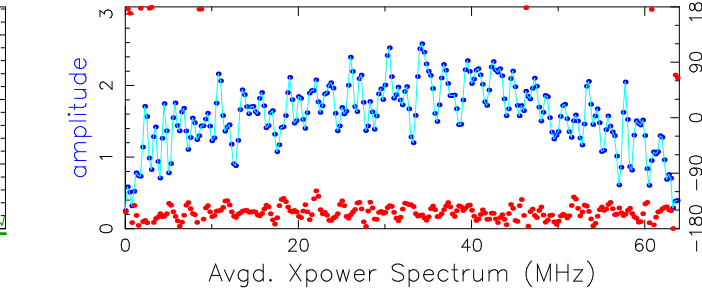
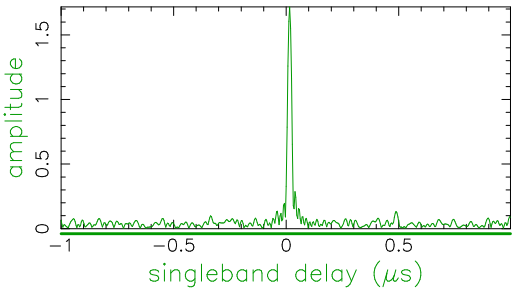
2013+370.3MP1EA, No0232, ZX

METSAHOV - ONSALA60, fgroup W, pol RR



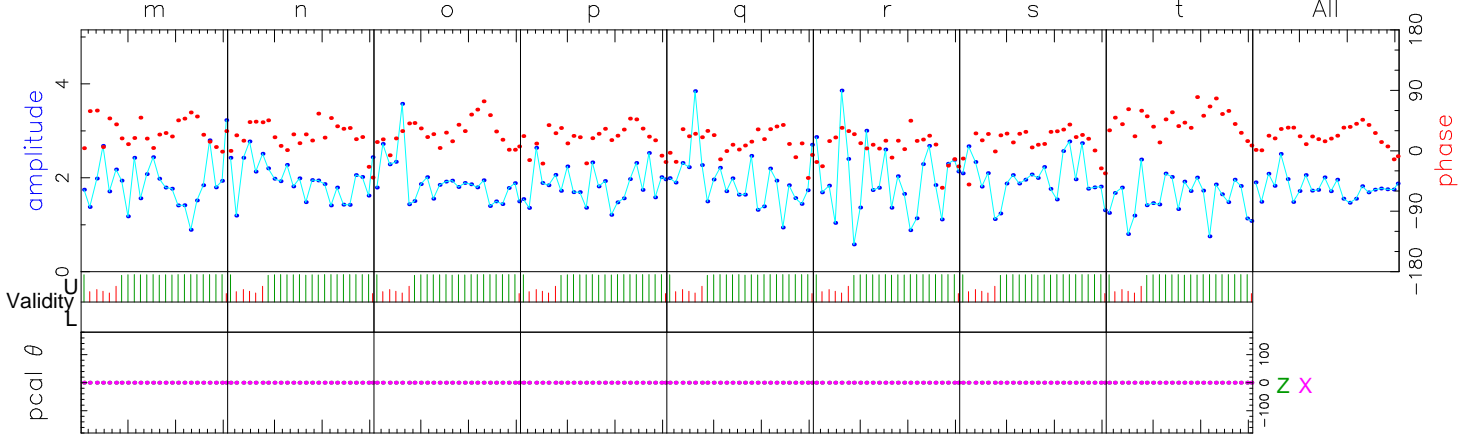
Fringe quality 7

SNR 58.7
 Int time 156.008
 Amp 1.717
 Phase 20.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.015239
 MBD 0.000012
 Fringe rate (Hz)
 -0.005917
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102648
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	23.8	21.6	27.7	20.8	11.1	4.9	15.2	46.3	Phase	20.8
	1.8	1.8	1.7	1.8	1.7	1.8	1.9	1.5	Ampl.	1.7
	260.5	260.6	260.7	261.0	260.8	261.2	261.2	261.4	Sbd box	260.9
U/L	326/0	326/0	326/0	326/0	326/0	326/0	326/0	326/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.67052894897E+03	Apriori delay (usec)	1.67051331230E+03	Resid mbdelay (usec)	1.16691E-05	+/-	1.9E-05
Sband delay (usec)	1.67052855130E+03	Apriori clock (usec)	-1.1265385E+02	Resid sbdelay (usec)	1.52390E-02	+/-	1.5E-04
Phase delay (usec)	1.67051331297E+03	Apriori clockrate (us/s)	-6.0676312E-07	Resid phdelay (usec)	6.72012E-07	+/-	6.3E-08
Delay rate (us/s)	-1.03939743865E-01	Apriori rate (us/s)	-1.03939675180E-01	Resid rate (us/s)	-6.86847E-08	+/-	6.5E-10
Total phase (deg)	280.6	Apriori accel (us/s/s)	-7.73392245091E-06	Resid phase (deg)	20.8	+/-	2.0

ph/seg (deg)	14.8	Theor.	4.6	Amplitude	1.711 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	11.7		8.1	Search (1024X32)	1.711	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	13.5		2.8	Inc. seg. avg.	1.767	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	5.9		4.8	Inc. frq. avg.	1.747	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		

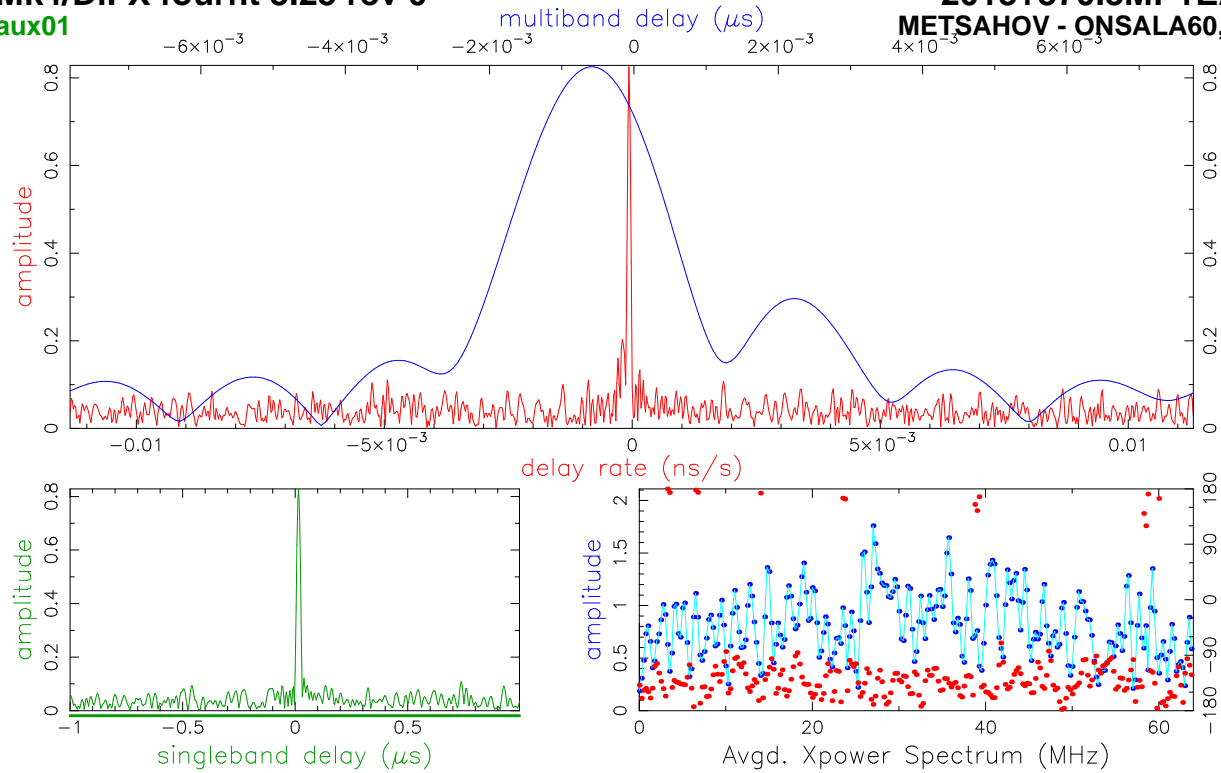
Z: az 93.6 el 46.2 pa -38.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) 742.101 -286.203 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232//ZX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232//ZX.W.39.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, ZX

METSAHOV - ONSALA60, fgroup W, pol LR

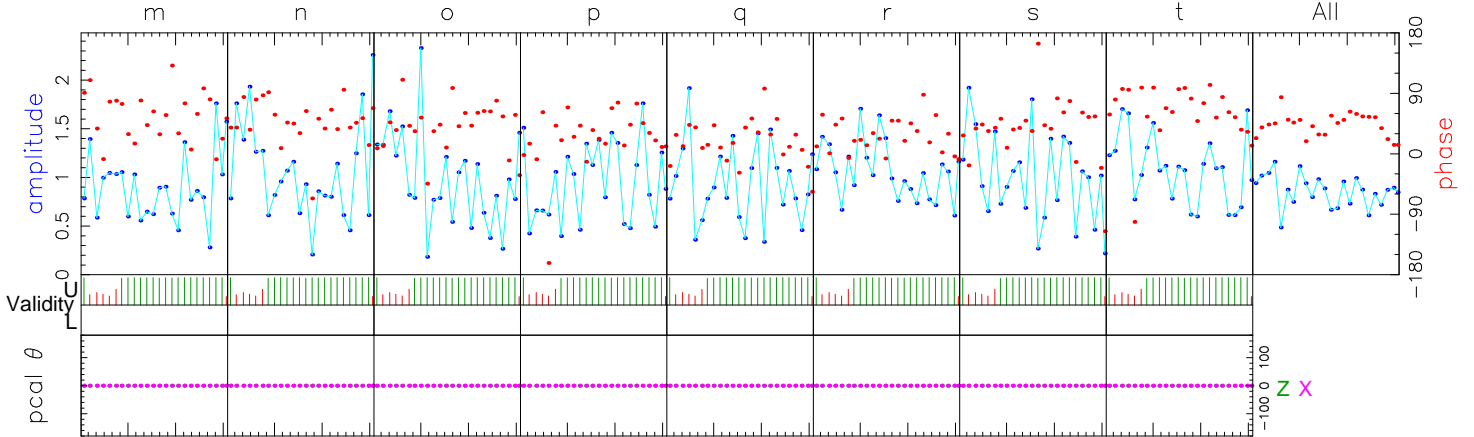


Fringe quality 8

SNR 28.3
 Int time 156.008
 Amp 0.829
 Phase 41.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.014803
 MBD -0.000605
 Fringe rate (Hz)
 -0.005854
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102651
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	326/0	326/0	326/0	326/0	326/0	326/0	326/0	326/0		
Z	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	1.67052833259E+03	Apriori delay (usec)	1.67051331230E+03	Resid mbdelay (usec)	-6.04706E-04	+/-	3.8E-05
Sband delay (usec)	1.67052811580E+03	Apriori clock (usec)	-1.1265385E+02	Resid sbdelay (usec)	1.48035E-02	+/-	3.0E-04
Phase delay (usec)	1.67051331364E+03	Apriori clockrate (us/s)	-6.0676312E-07	Resid phdelay (usec)	1.33602E-06	+/-	1.3E-07
Delay rate (us/s)	-1.03939743136E-01	Apriori rate (us/s)	-1.03939675180E-01	Resid rate (us/s)	-6.79563E-08	+/-	1.4E-09
Total phase (deg)	301.2	Apriori accel (us/s/s)	-7.73392245091E-06	Resid phase (deg)	41.4	+/-	4.0

ph/seg (deg)	15.7	Theor.	9.6	Amplitude	0.829 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	17.5		9.6	Search (1024X32)	0.821	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	17.6		5.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	10.2		10.0	Inc. seg. avg.	0.843	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.852	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
							ion window (TEC) 0.00 0.00

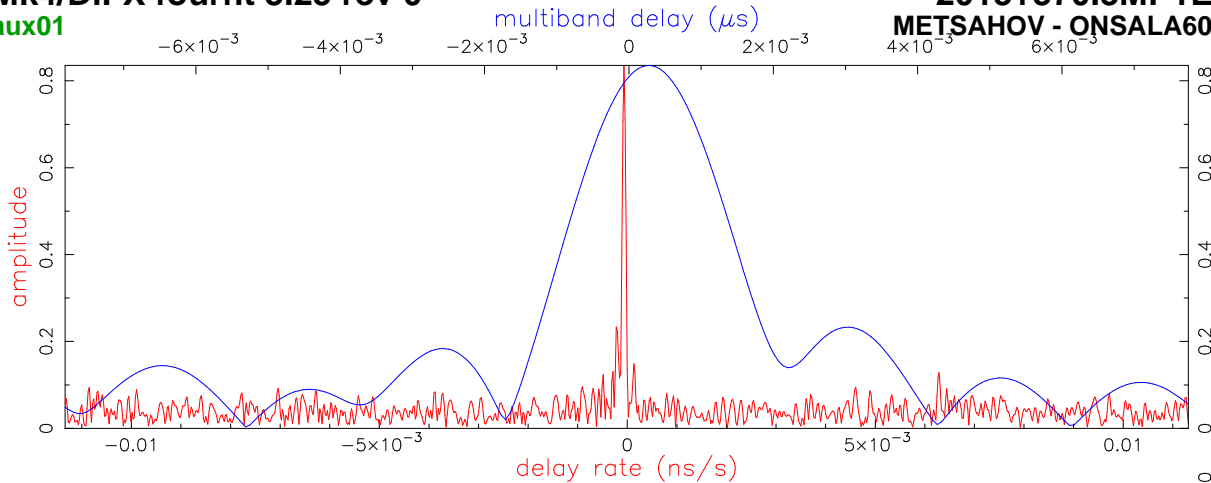
Z: az 93.6 el 46.2 pa -38.5 X: az 80.6 el 39.7 pa -41.9 u, v (fr/asec) 742.101 -286.203 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/ZX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/ZX.W.45.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

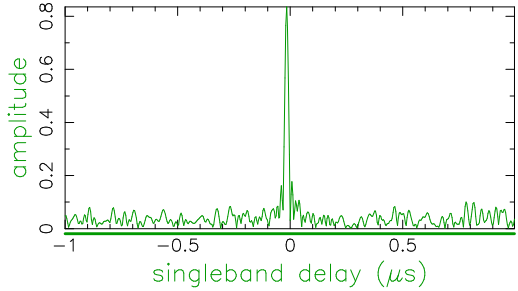
2013+370.3MP1EA, No0232, ZX

METSAHOV - ONSALA60, fgroup W, pol RL

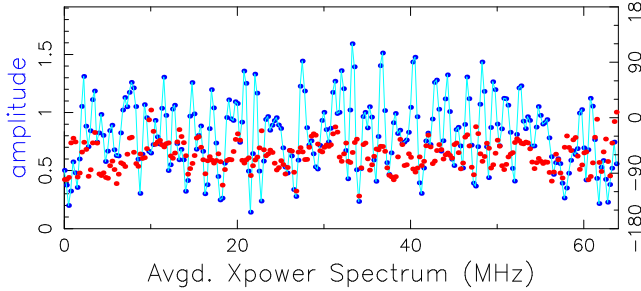


Fringe quality 9

SNR 28.5
 Int time 156.008
 Amp 0.836
 Phase 115.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.015757
 MBD 0.000272
 Fringe rate (Hz)
 -0.006019
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

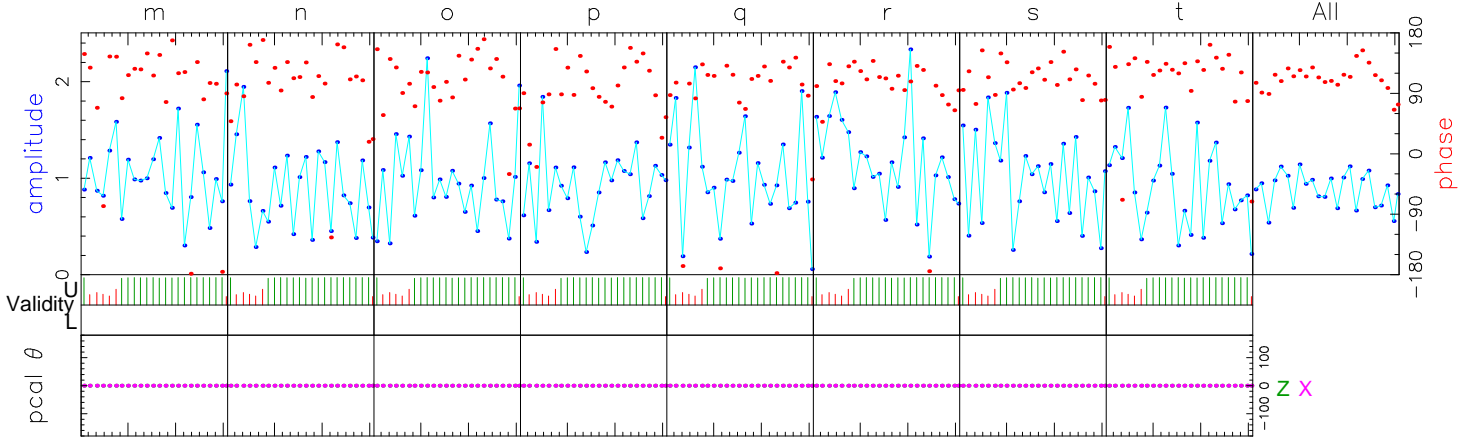


delay rate (ns/s)



Exp. c241c
 Exper # 1234
 Yr:day 2024:112
 Start 004001.02
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2024:351:093049
 2025:041:102654
 2024:113:095956
 RA & Dec (J2000)
 20h15m28.729786s
 +37°10'59.514736"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	126.7	117.1	113.2	101.4	112.0	108.3	116.3	130.9	Phase	115.6
	0.9	0.7	0.8	0.7	0.9	1.1	0.9	0.8	Ampl.	0.8
	252.6	252.5	253.0	252.6	253.0	253.0	253.1	253.5	Sbd box	253.0
U/L	326/0	326/0	326/0	326/0	326/0	326/0	326/0	326/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.67049795888E+03	Apriori delay (usec)	1.67051331230E+03	Resid mbdelay (usec)	2.71575E-04	+/-	3.8E-05
Sband delay (usec)	1.67049755480E+03	Apriori clock (usec)	-1.1265385E+02	Resid sbdelay (usec)	-1.57575E-02	+/-	3.0E-04
Phase delay (usec)	1.67051331603E+03	Apriori clockrate (us/s)	-6.0676312E-07	Resid phdelay (usec)	3.72840E-06	+/-	1.3E-07
Delay rate (us/s)	-1.03939745059E-01	Apriori rate (us/s)	-1.03939675180E-01	Resid rate (us/s)	-6.98794E-08	+/-	1.3E-09
Total phase (deg)	15.4	Apriori accel (us/s/s)	-7.73392245091E-06	Resid phase (deg)	115.6	+/-	4.0

ph/seg (deg)	19.2	Theor.	9.5	Amplitude	0.836 +/- 0.029	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
amp/seg (%)	21.3		16.6	Search (1024X32)	0.817	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	10.3		5.7	Inc. seg. avg.	0.864	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	13.0		9.9	Inc. frq. avg.	0.841	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	

Z: az 93.6 el 46.2 pa -38.5 X: az 80.6 el 39.7 pa -41.9 u, v (fr/asec) 742.101 -286.203 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/ZX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/ZX.W.67.3MP1EA