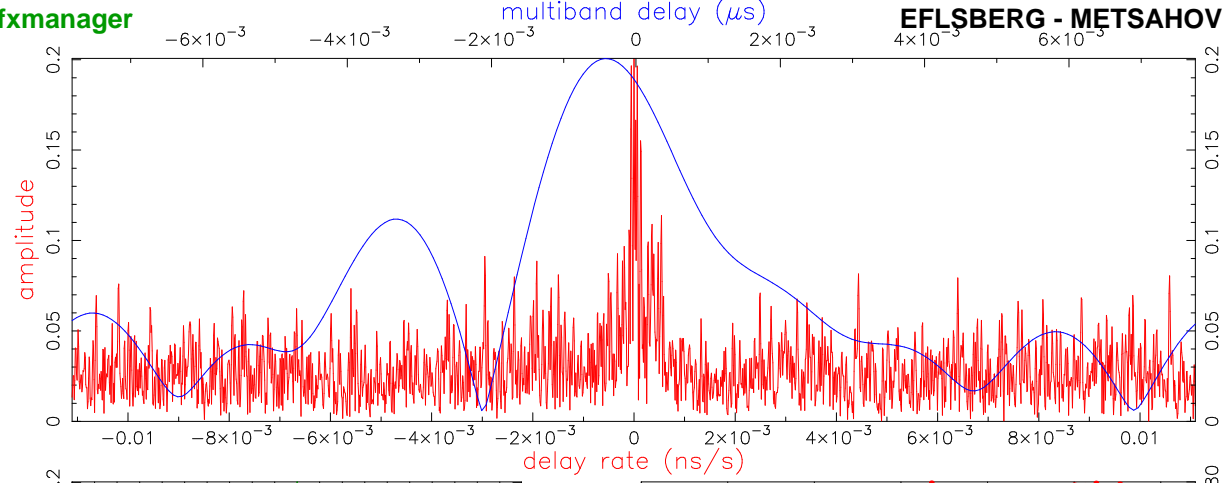


Mk4/DiFX fourfit 3.21 rev 2937

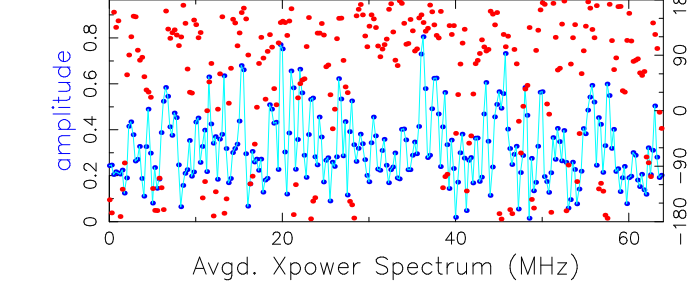
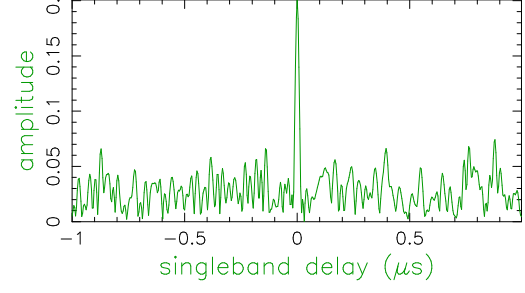
fxmanager

3C84.1JFPMR, No0057, BZ

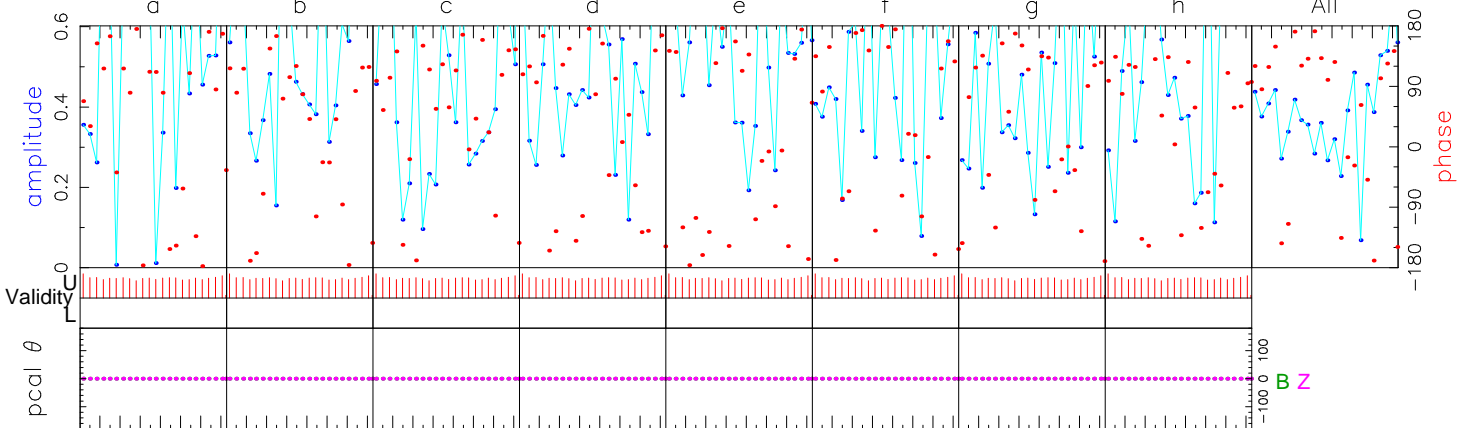
EFLSBERG - METSAHOV, fgroup W, pol LL



Fringe quality 9
 SNR 9.5
 Int time 302.272
 Amp 0.201
 Phase 137.5
 PFD 5.6e-13
 Delays (us)
 SBD -0.000107
 MBD -0.000417
 Fringe rate (Hz)
 -0.000292
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081805
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



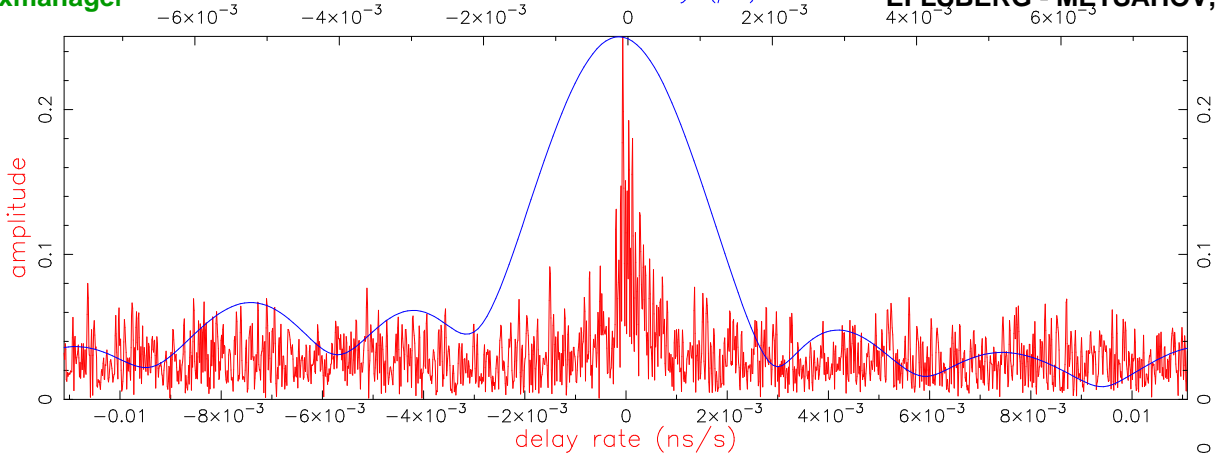
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd)	1.58327289232E+03	Apriori delay (usec)	1.58327330950E+03	Resid mbdelay (usec)	-4.17187E-04	+/-	1.1E-04
Sband delay (usec)	1.58327320225E+03	Apriori clock (usec)	9.9292984E+00	Resid sbdelay (usec)	-1.07250E-04	+/-	9.0E-04
Phase delay (usec)	1.58327331384E+03	Apriori clockrate (us/s)	-2.1600000E-07	Resid phdelay (usec)	4.34224E-06	+/-	3.8E-07
Delay rate (us/s)	-1.41506239964E-01	Apriori rate (us/s)	-1.41506236641E-01	Resid rate (us/s)	-3.32313E-09	+/-	1.6E-09
Total phase (deg)	79.0	Apriori accel (us/s/s)	-1.55736195573E-05	Resid phase (deg)	137.5	+/-	12.0

ph/seg (deg)	74.4	Theor.	28.7	Amplitude	0.201 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	114.2	Search (2048X32)	0.192	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	34.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	34.0	Inc. seg. avg.	0.346	Sample rate(MSamp/s): 128		dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.222	Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

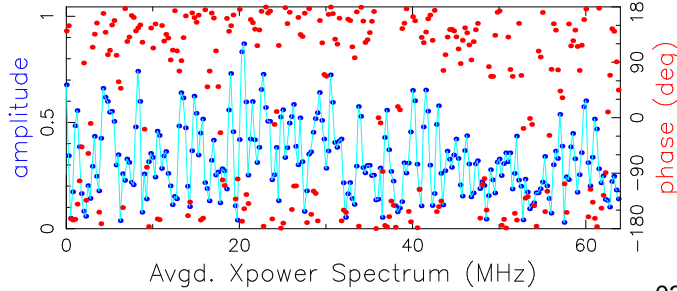
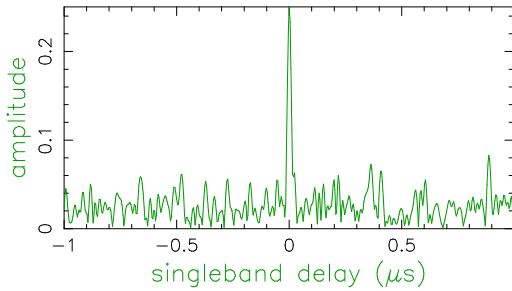
B: az 290.9 el 39.2 pa 52.6 Z: az 295.9 el 33.9 pa 36.5 u,v (fr/asec) 1084.056 -1768.059 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/BZ..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/BZ.W.12.1JFPMR

multiband delay (μ s)



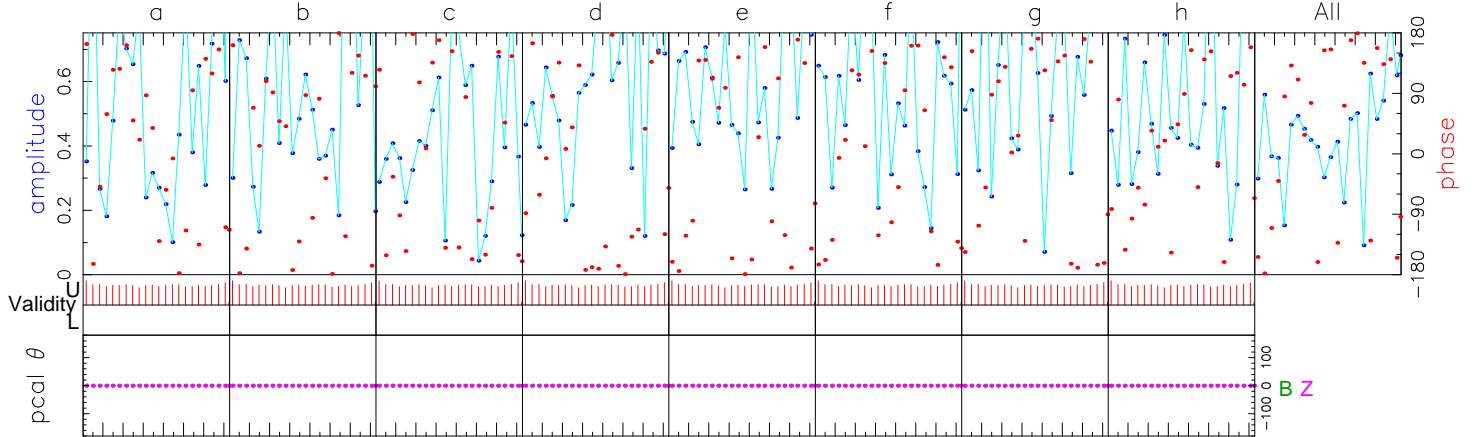
Fringe quality 9

SNR 11.9
Int time 302.272
Amp 0.250
Phase 167.2
PFD 5.4e-24
Delays (us)
SBD 0.000413
MBD -0.000112
Fringe rate (Hz)
-0.005362
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 063001.00
Stop 063700.84
FRT 063331.00
Corr/FF/build
2021:039:075018
2021:039:081809
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All		
	163.2	149.6	168.6	-168.6	176.4	153.4	169.1	141.2	Phase	167.2		
	0.2	0.3	0.2	0.3	0.4	0.2	0.3	0.1	Ampl.	0.3		
	242.2	257.8	256.9	257.2	257.7	256.4	256.1	254.3	Sbd box	257.1		
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used			
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC			
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
Z	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
									Tracks			
Group delay (usec)(sbd)	1.58327319798E+03		Apriori delay (usec)		1.58327330950E+03		Resid mbdelay (usec)		-1.11523E-04	+/- 9.1E-05		
Sband delay (usec)	1.58327372225E+03		Apriori clock (usec)		9.9292984E+00		Resid sbdelay (usec)		4.12750E-04	+/- 7.2E-04		
Phase delay (usec)	1.58327331478E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		5.28151E-06	+/- 3.0E-07		
Delay rate (us/s)	-1.41506297613E-01		Apriori rate (us/s)		-1.41506236641E-01		Resid rate (us/s)		-6.09720E-08	+/- 1.3E-09		
Total phase (deg)	108.8		Apriori accel (us/s/s)		-1.55736195573E-05		Resid phase (deg)		167.2	+/- 9.6		
RMS	Theor.		Amplitude		0.250 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	64.7	23.0	Search (2048X32)		0.239		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	96.6	40.2	Interp.		0.000		SampCntNorm: enabled		mb window (us)	-0.008 0.008		
ph/frq (deg)	17.6	13.6	Inc. seg. avg.		0.400		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011		
amp/frq (%)	28.5	23.8	Inc. frq. avg.		0.251		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite		
B: az 290.9 el 39.2 pa 52.6		Z: az 295.9 el 33.9 pa 36.5		u,v (fr/asec) 1084.056 -1768.059						ion window (TEC)		0.00 0.00
Control file: cf_1234_88GHz_gmva		Input file: /Exps/c202c/v1/1234/No0057/BZ..1JFPMR		Output file: /Exps/c202c/v1/1234/No0057/BZ.W.28.1JFPMR						simultaneous interpolator		

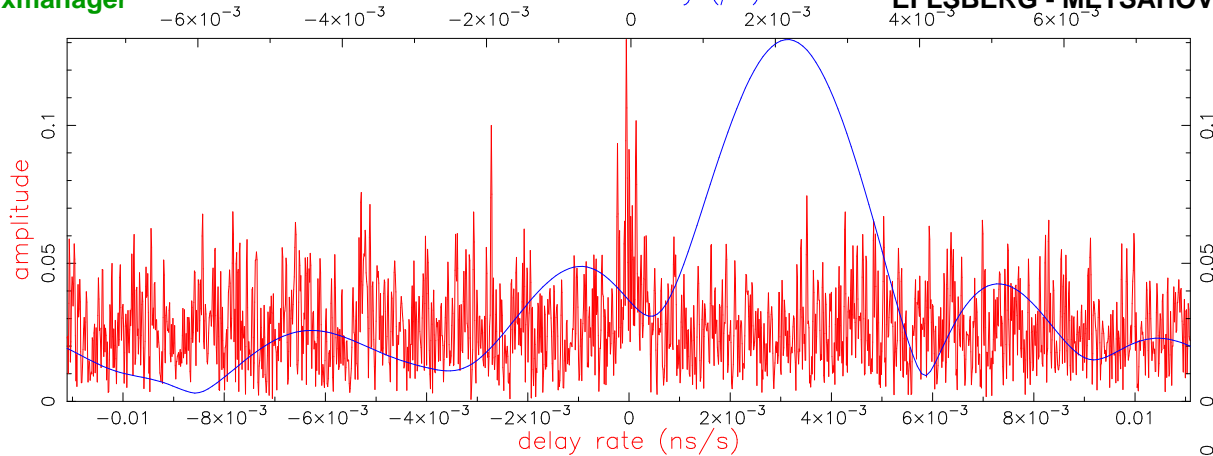
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, BZ

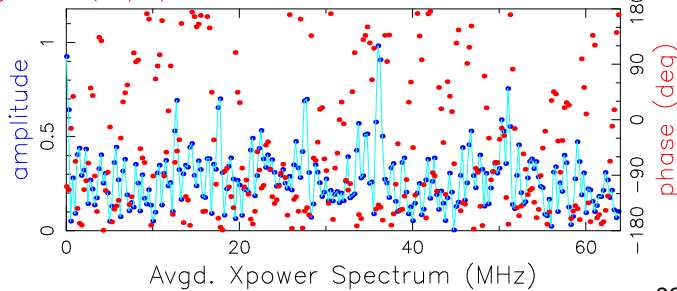
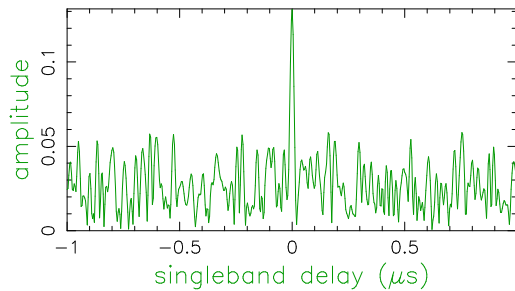
EFLSBERG - METSAHOV, fgroup W, pol LR

multiband delay (μ s)



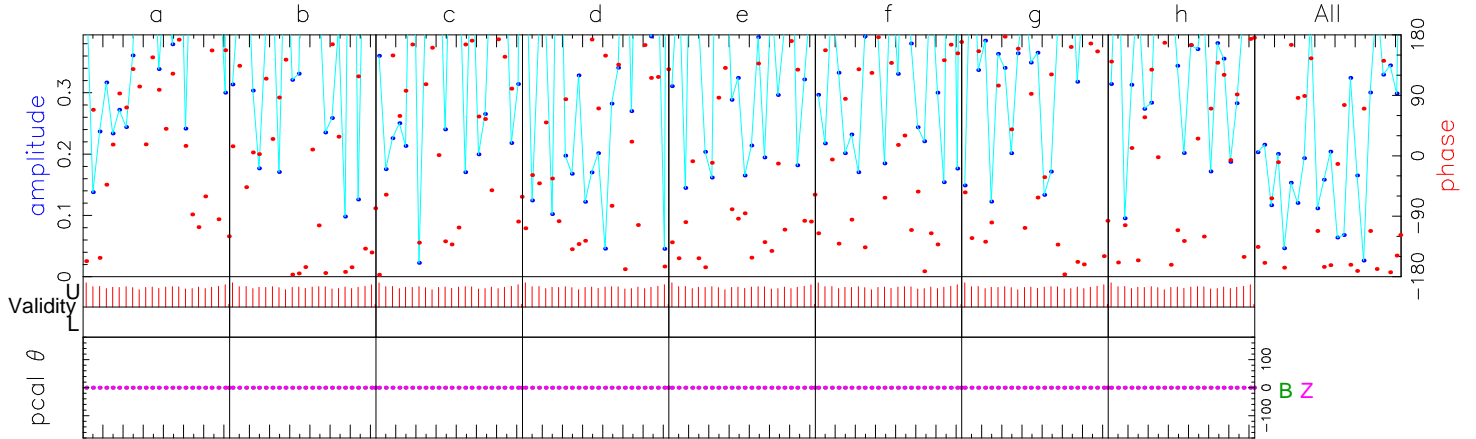
Fringe quality 0

SNR 6.3
 Int time 302.272
 Amp 0.132
 Phase -169.4
 PFD 1.0e-01
 Delays (us)
 SBD -0.000824
 MBD 0.002145
 Fringe rate (Hz)
 -0.005111
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081812
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	161.8	-165.9	178.5	-151.2	-138.8	-168.3	-168.3	173.5	Phase	-169.4
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	33.4	87.9	175.2	498.6	357.6	449.6	20.2	95.4	Sbd box	256.8
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.58327545460E+03		Apriori delay (usec)		1.58327330950E+03		Resid mbdelay (usec)		2.14510E-03	+/- 1.7E-04
Sband delay (usec)	1.58327248575E+03		Apriori clock (usec)		9.9292984E+00		Resid sbdelay (usec)		-8.23750E-04	+/- 1.4E-03
Phase delay (usec)	1.58327330415E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.34935E-06	+/- 5.8E-07
Delay rate (us/s)	-1.41506294758E-01		Apriori rate (us/s)		-1.41506236641E-01		Resid rate (us/s)		-5.81173E-08	+/- 2.4E-09
Total phase (deg)	132.2		Apriori accel (us/s/s)		-1.55736195573E-05		Resid phase (deg)		-169.4	+/- 18.3

	RMS	Theor.	Amplitude	0.132 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	74.5	43.8	Search (2048X32)	0.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	108.1	76.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	20.6	25.9	Inc. seg. avg.	0.160	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.5	45.2	Inc. frq. avg.	0.124	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 290.9 el 39.2 pa 52.6 Z: az 295.9 el 33.9 pa 36.5 u,v (fr/asec) 1084.056 -1768.059 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/BZ..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/BZ.W.43.1JFPMR

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

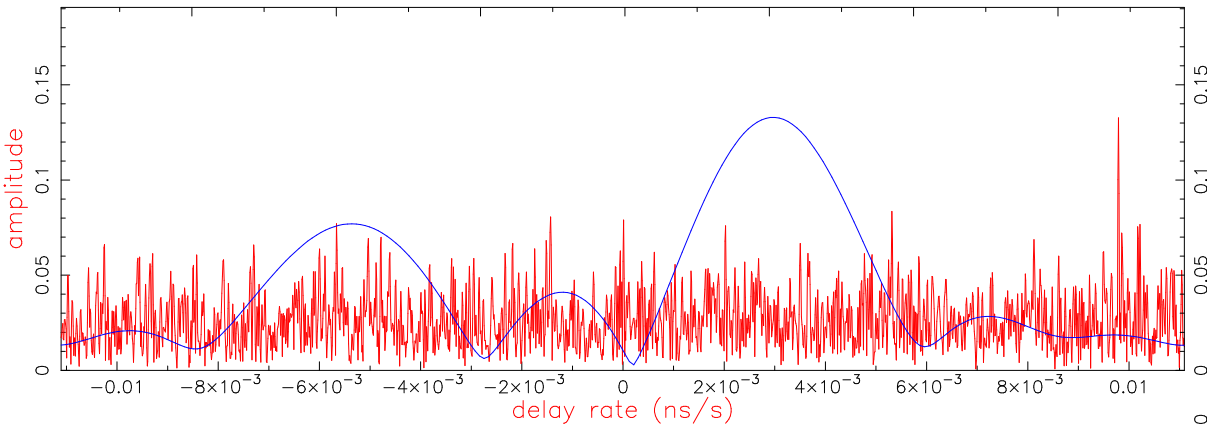
3C84.1JFPMR, No0057, BZ

EFLSBERG - METSAHOV, fgroup W, pol RL

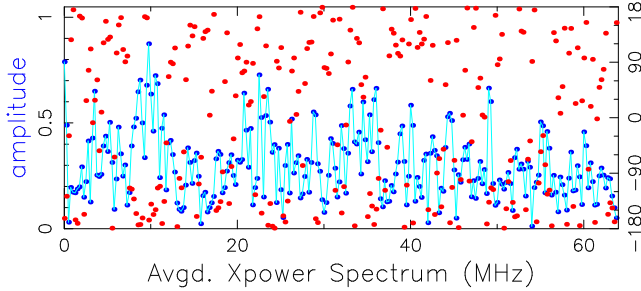
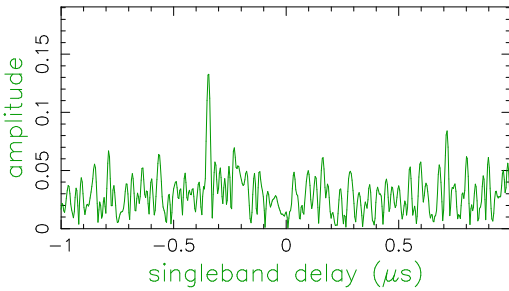
multiband delay (μs)

-6×10^{-3} -4×10^{-3} -2×10^{-3} 0 2×10^{-3} 4×10^{-3} 6×10^{-3}

Fringe quality 0

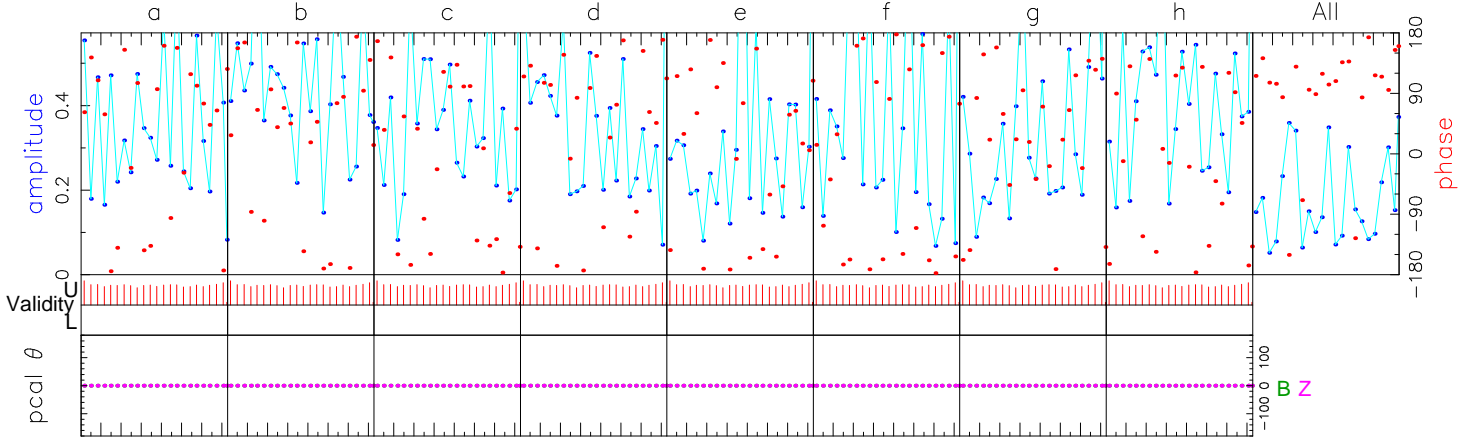


SNR 6.4
Int time 302.272
Amp 0.191
Phase 126.0
PFD 3.5e-02
Delays (us)
SBD -0.345601
MBD 0.001986
Fringe rate (Hz)
0.862156
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 063001.00
Stop 063700.84
FRT 063331.00
Corr/FF/build
2021:039:075018
2021:039:081815
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

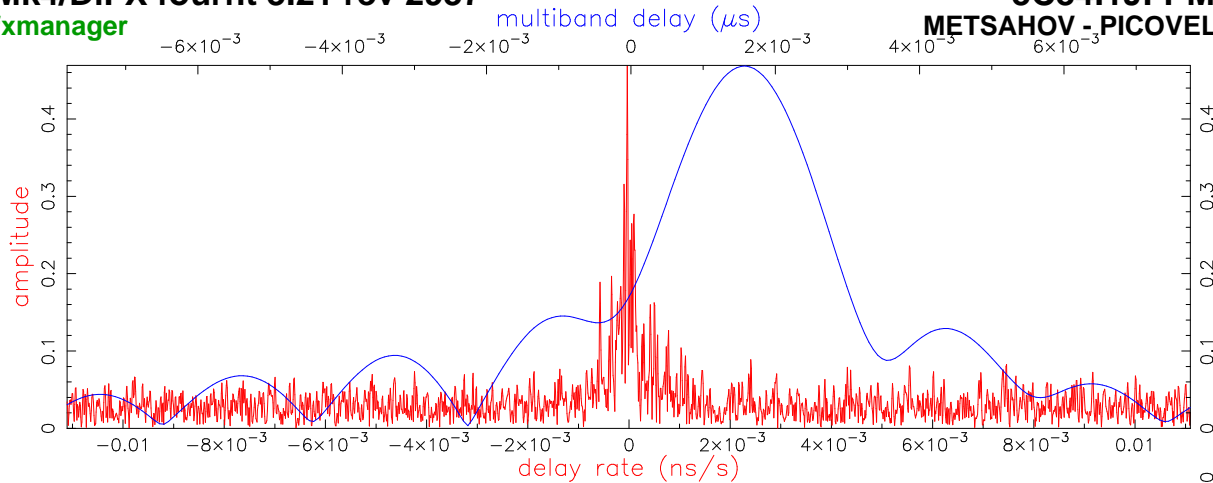


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	128.1	95.0	168.0	129.3	95.0	164.2	103.7	132.0	Phase	126.0
B	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.1	Ampl.	0.2
Z	298.8	171.5	47.9	169.0	129.7	175.0	281.9	203.2	Sbd box	168.5
B:Z	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
B:Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 1.58293154567E+03 Apriori delay (usec) 1.58327330950E+03 Resid mbdelay (usec) 1.98617E-03 +/- 1.7E-04
 Sband delay (usec) 1.58292770875E+03 Apriori clock (usec) 9.9292984E+00 Resid sbdelay (usec) -3.45601E-01 +/- 1.3E-03
 Phase delay (usec) 1.58327331348E+03 Apriori clockrate (us/s) -2.1600000E-07 Resid phdelay (usec) 3.98076E-06 +/- 5.6E-07
 Delay rate (us/s) -1.41496432729E-01 Apriori rate (us/s) -1.41506236641E-01 Resid rate (us/s) 9.80391E-06 +/- 2.3E-09
 Total phase (deg) 67.6 Apriori accel (us/s/s) -1.55736195573E-05 Resid phase (deg) 126.0 +/- 17.8

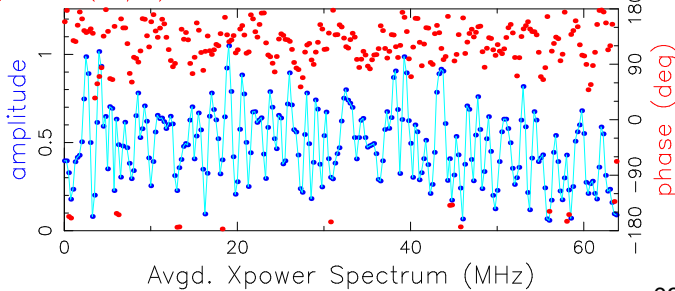
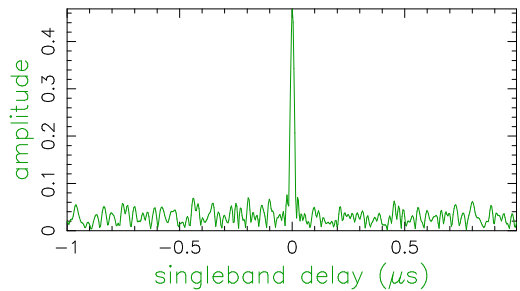
RMS Theor. Amplitude 0.191 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.6 42.6 Search (2048X32) 0.131 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 78.1 74.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 30.8 25.2 Inc. seg. avg. 0.192 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 39.2 44.0 Inc. frq. avg. 0.191 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 290.9 el 39.2 pa 52.6 Z: az 295.9 el 33.9 pa 36.5 u,v (fr/asec) 1084.056 -1768.059 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/BZ..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/BZ.W.59.1JFPMR



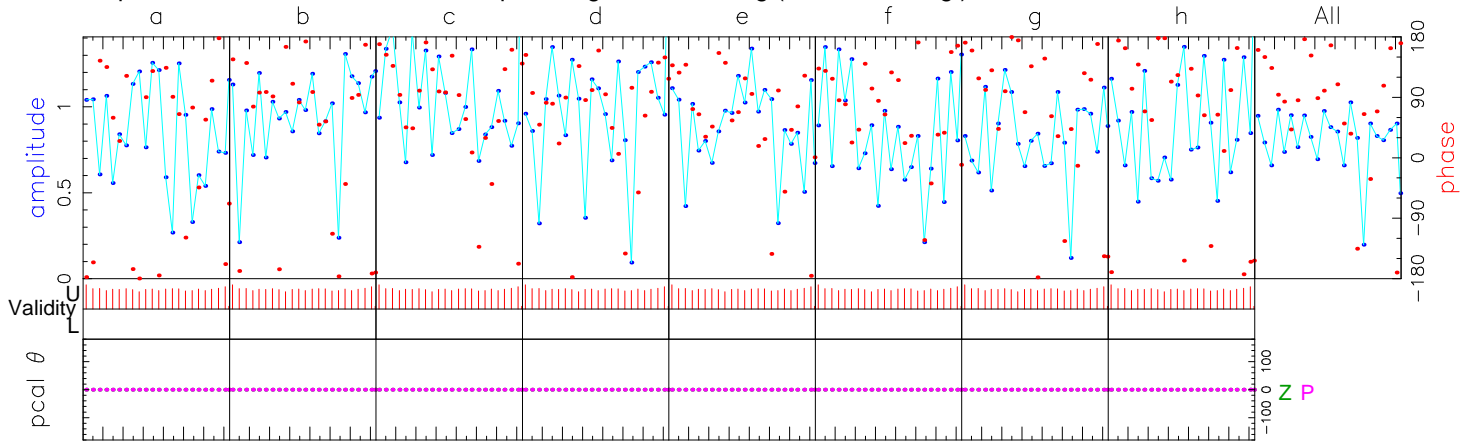
Fringe quality 8

SNR 22.3
Int time 301.954
Amp 0.469
Phase 116.3
PFD 0.0e+00
Delays (us)
SBD 0.000594
MBD 0.001590
Fringe rate (Hz)
-0.002678
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 063001.00
Stop 063700.84
FRT 063331.00
Corr/FF/build
2021:039:075018
2021:039:081805
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	147.4	121.6	109.5	101.5	91.5	94.4	131.6	142.1	Phase	116.3
	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	Ampl.	0.5
	256.6	256.9	257.0	257.0	256.7	257.1	258.0	257.6	Sbd box	257.2
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.96070723710E+03	Apriori delay (usec)	-1.96070882681E+03	Resid mbdelay (usec)	1.58971E-03	+/-	4.9E-05
Sband delay (usec)	-1.96070823306E+03	Apriori clock (usec)	3.9790344E-01	Resid sbdelay (usec)	5.93750E-04	+/-	3.9E-04
Phase delay (usec)	-1.96070882313E+03	Apriori clockrate (us/s)	4.1600000E-07	Resid phdelay (usec)	3.67287E-06	+/-	1.6E-07
Delay rate (us/s)	2.70620259050E-01	Apriori rate (us/s)	2.70620289501E-01	Resid rate (us/s)	-3.04516E-08	+/-	6.7E-10
Total phase (deg)		Apriori accel (us/s/s)	3.02961432076E-05	Resid phase (deg)	116.3	+/-	5.1

ph/seg (deg)	58.9	RMS	12.3	Theor.	12.3	Amplitude	0.469 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	82.9		21.5		21.5	Search (2048X32)	0.462	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	23.3		7.3		7.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	10.5		12.7		12.7	Inc. seg. avg.	0.802	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
						Inc. frq. avg.	0.494	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

Z: az 295.9 el 33.9 pa 36.5 P: az 296.6 el 40.6 pa 72.2 u,v (fr/asec) -2073.568 3967.459 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZP..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZP.W.13.1JFPMR

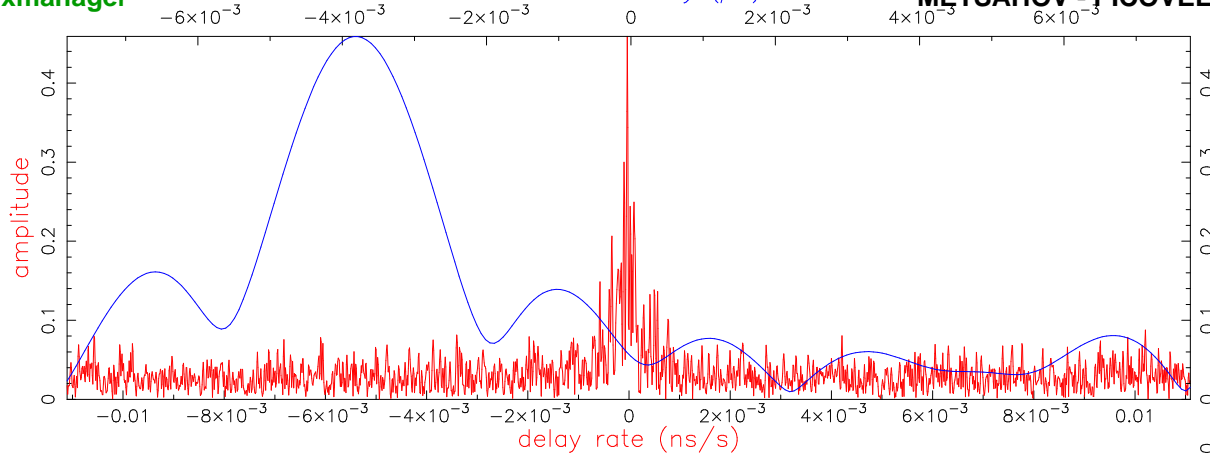
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, ZP

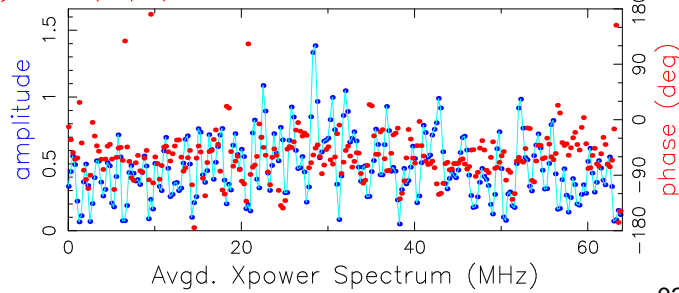
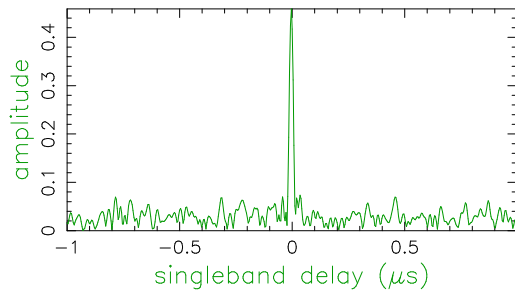
METSAHOV - PICOVEL, fgroup W, pol RR

multiband delay (μ s)



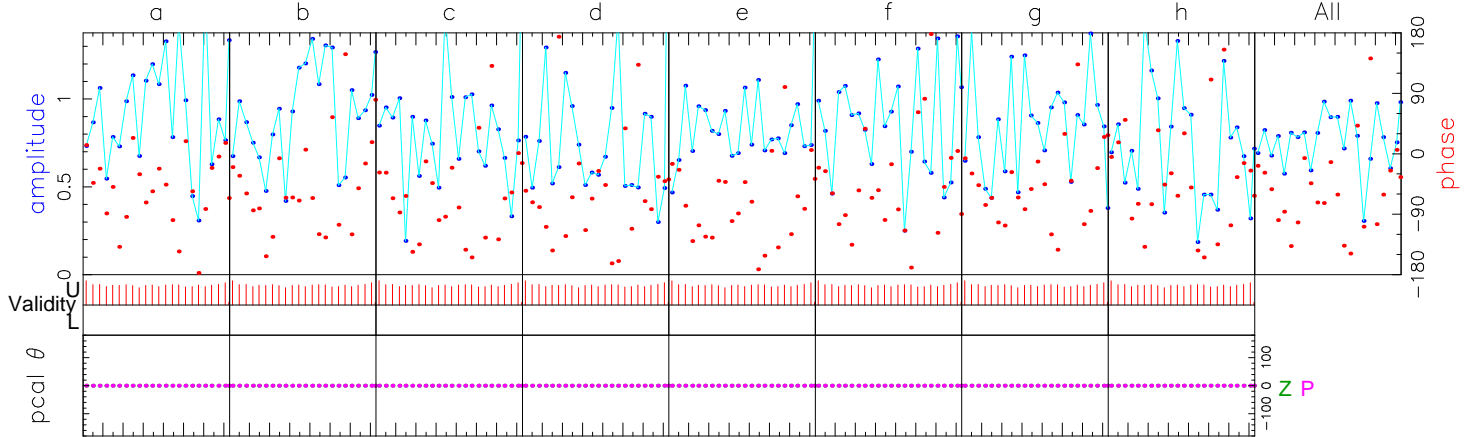
Fringe quality 9

SNR 21.8
 Int time 301.954
 Amp 0.459
 Phase -65.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.004091
 MBD -0.003817
 Fringe rate (Hz)
 -0.002708
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



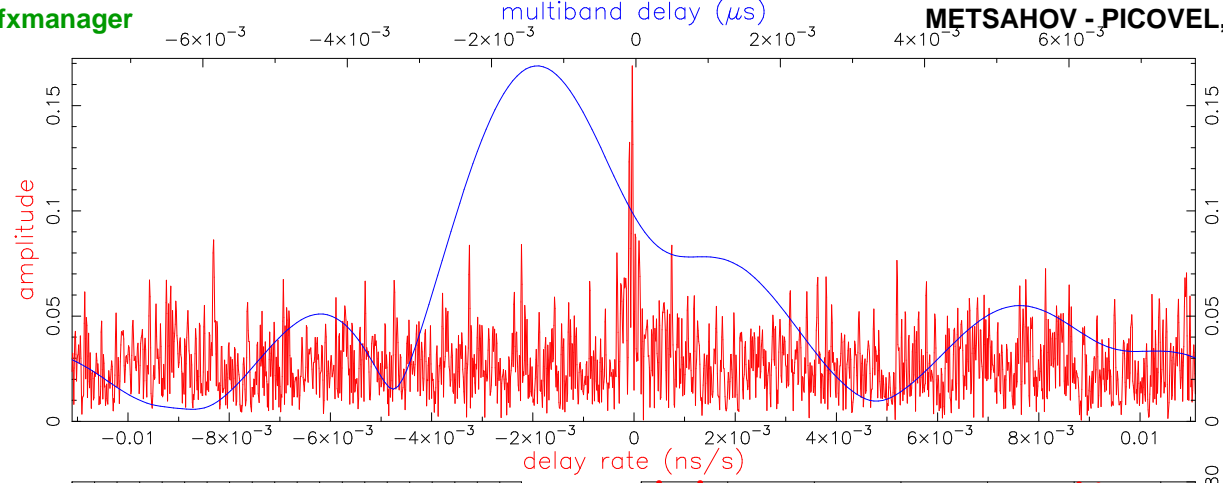
Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081808
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

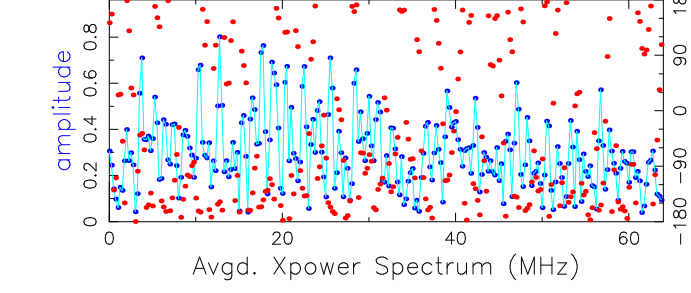
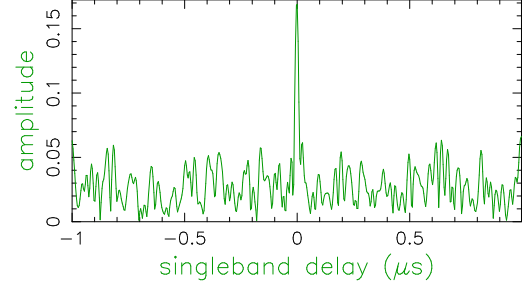


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-48.4	-59.3	-77.1	-91.7	-83.4	-56.8	-55.9	-49.8	Phase	-65.0
	0.6	0.5	0.4	0.5	0.5	0.4	0.5	0.3	Ampl.	0.5
	256.2	255.6	255.6	255.4	256.4	255.9	256.5	255.3	Sbd box	256.0
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.96071264369E+03		Apriori delay (usec)		-1.96070882681E+03		Resid mbdelay (usec)		-3.81689E-03	+/- 5.0E-05
Sband delay (usec)	-1.96071291731E+03		Apriori clock (usec)		3.9790344E-01		Resid sbdelay (usec)		-4.09050E-03	+/- 3.9E-04
Phase delay (usec)	-1.96070882886E+03		Apriori clockrate (us/s)		4.1600000E-07		Resid phdelay (usec)		-2.05219E-06	+/- 1.7E-07
Delay rate (us/s)	2.70620258705E-01		Apriori rate (us/s)		2.70620289501E-01		Resid rate (us/s)		-3.07959E-08	+/- 6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		3.02961432076E-05		Resid phase (deg)		-65.0	+/- 5.3

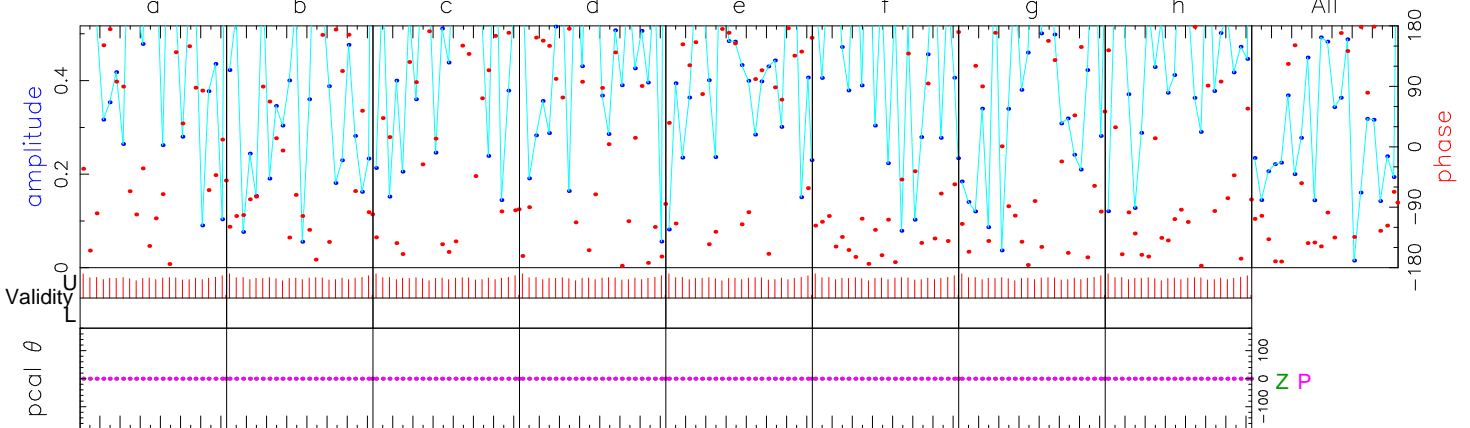
ph/seg (deg) 58.5 12.6 Search (2048X32) 0.454 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.8 21.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.7 7.4 Inc. seg. avg. 0.744 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.2 13.0 Inc. frq. avg. 0.472 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 295.9 el 33.9 pa 36.5 P: az 296.6 el 40.6 pa 72.2 u,v (fr/asec) -2073.568 3967.459 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZP..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZP.W.27.1JFPMR



Fringe quality 9
SNR 8.2
Int time 301.954
Amp 0.172
Phase -153.1
PFD 8.9e-08
Delays (us)
SBD -0.001849
MBD -0.001374
Fringe rate (Hz)
-0.002853
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512
Exp. c202c
Yr:day 2020:286
Start 063001.00
Stop 063700.84
FRT 063331.00
Corr/FF/build
2021:039:075018
2021:039:081811
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

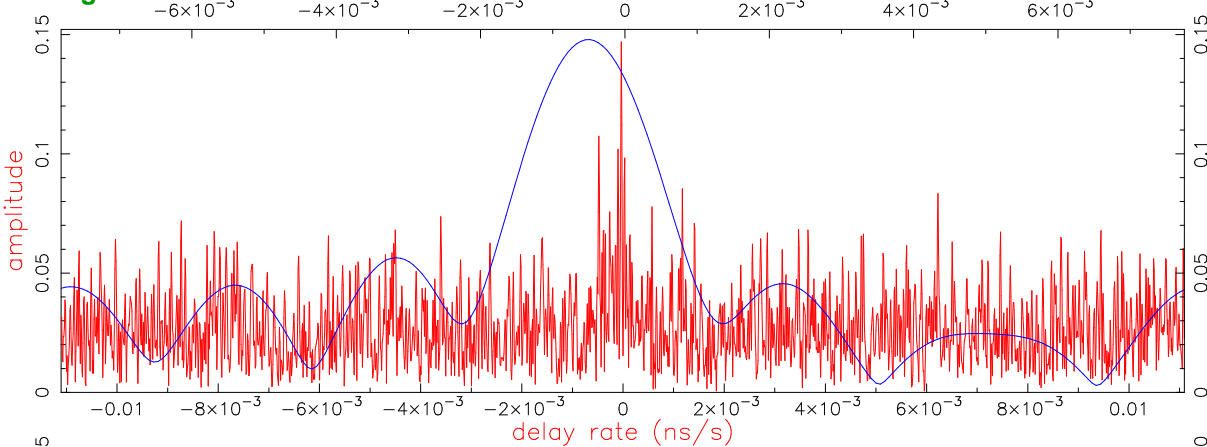


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



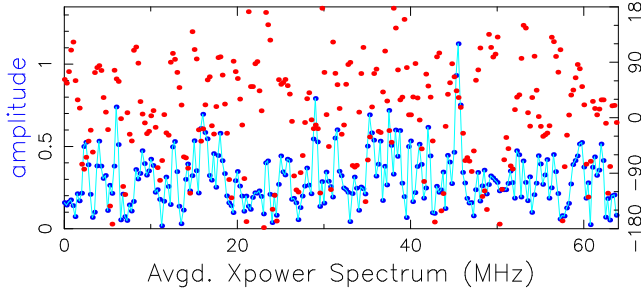
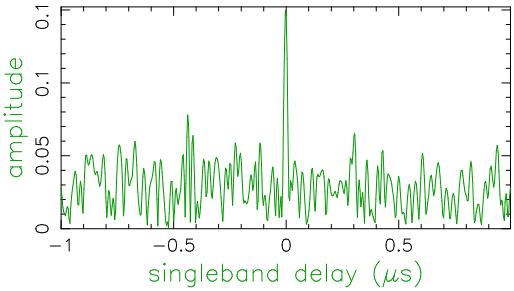
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All		
	-117.4	-134.2	179.8	-174.7	161.8	-140.9	-143.8	-131.6	Phase	-153.1		
	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.2	Ampl.	0.2		
	27.7	389.9	199.0	231.9	256.0	257.2	159.4	254.7	Sbd box	256.5		
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
P	1000	1000	1000	1000	1000	1000	1000	1000				
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
									Tracks			
Group delay (usec)(sbd)	-1.96071020098E+03		Apriori delay (usec)		-1.96070882681E+03		Resid mbdelay (usec)		-1.37417E-03	+/- 1.3E-04		
Sband delay (usec)	-1.96071067556E+03		Apriori clock (usec)		3.9790344E-01		Resid sbdelay (usec)		-1.84875E-03	+/- 1.1E-03		
Phase delay (usec)	-1.96070883164E+03		Apriori clockrate (us/s)		4.1600000E-07		Resid phdelay (usec)		-4.83653E-06	+/- 4.4E-07		
Delay rate (us/s)	2.70620257057E-01		Apriori rate (us/s)		2.70620289501E-01		Resid rate (us/s)		-3.24443E-08	+/- 1.8E-09		
Total phase (deg)			Apriori accel (us/s/s)		3.02961432076E-05		Resid phase (deg)		-153.1	+/- 14.0		
	RMS	Theor.	Amplitude	0.172 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	53.6	33.5	Search (2048X32)	0.168		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	97.3	58.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	30.5	19.8	Inc. seg. avg.	0.236		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011	
amp/frq (%)	40.3	34.5	Inc. frq. avg.	0.177		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
Z: az 295.9 el 33.9 pa 36.5	P: az 296.6 el 40.6 pa 72.2		u,v (fr/asec) -2073.568 3967.459						simultaneous interpolator			

multiband delay (μ s)



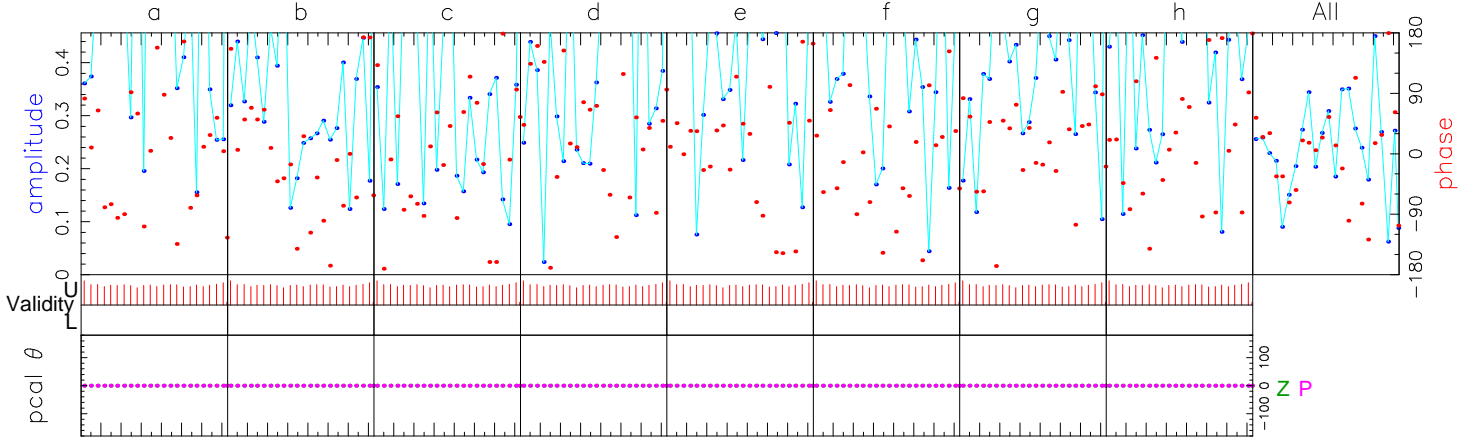
Fringe quality 0

SNR 7.2
 Int time 301.954
 Amp 0.152
 Phase 8.5
 PFD 1.5e-04
 Delays (us)
 SBD -0.002300
 MBD -0.000627
 Fringe rate (Hz)
 -0.002985
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081815
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

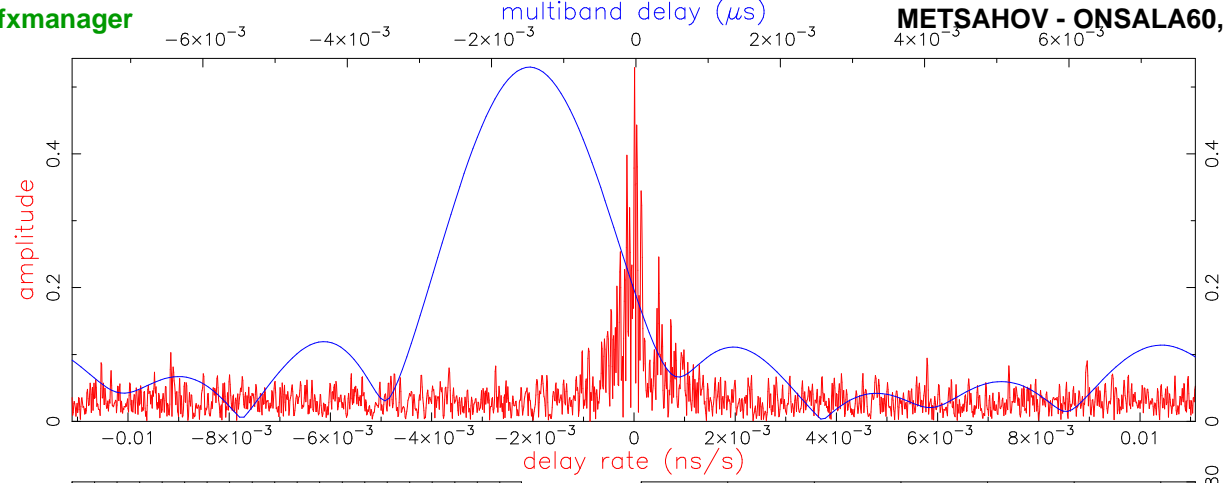
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.96070945351E+03	Apriori delay (usec)	-1.96070882681E+03	Resid mbdelay (usec)	-6.26699E-04	+/-	1.5E-04
Sband delay (usec)	-1.96071112706E+03	Apriori clock (usec)	3.9790344E-01	Resid sbdelay (usec)	-2.30025E-03	+/-	1.2E-03
Phase delay (usec)	-1.96070882654E+03	Apriori clockrate (us/s)	4.1600000E-07	Resid phdelay (usec)	2.67472E-07	+/-	5.0E-07
Delay rate (us/s)	2.70620255554E-01	Apriori rate (us/s)	2.70620289501E-01	Resid rate (us/s)	-3.39469E-08	+/-	2.1E-09
Total phase (deg)	-74.1	Apriori accel (us/s/s)	3.02961432076E-05	Resid phase (deg)	8.5	+/-	15.8

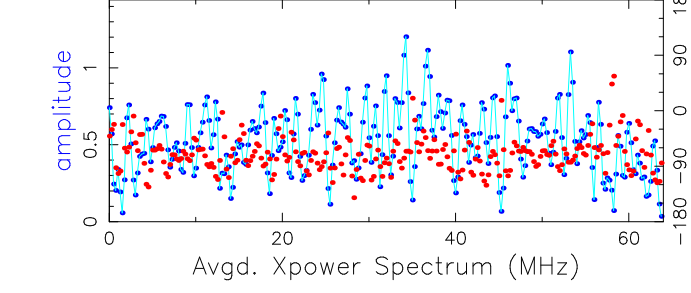
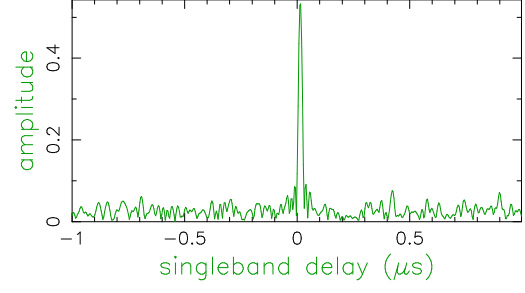
ph/seg (deg)	68.4	Theor.	37.9	Amplitude	0.152 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	82.9	Search (2048X32)	0.147	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	17.6	Inc. seg. avg.	0.201	Inc. frq. avg.	0.142	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	33.4	Inc. frq. avg.	0.142			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
Z: az 295.9 el 33.9 pa 36.5		P: az 296.6 el 40.6 pa 72.2		u,v (fr/asec)	-2073.568 3967.459	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00



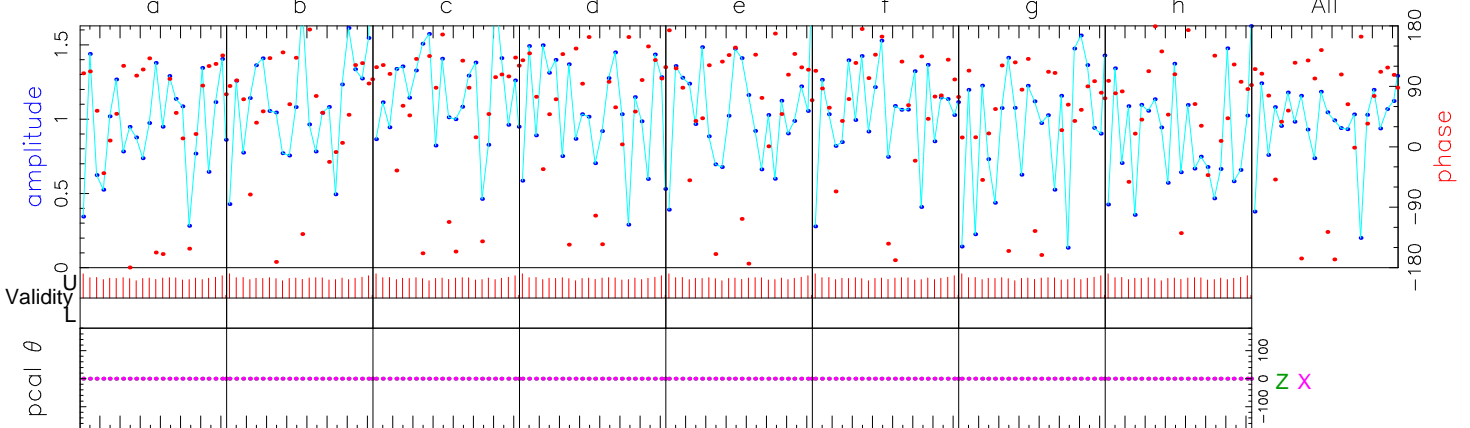
Fringe quality 7

SNR 25.8
Int time 302.272
Amp 0.543
Phase 101.7
PFD 0.0e+00
Delays (us)
SBD 0.013830
MBD -0.001411
Fringe rate (Hz) 0.001313
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512

Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 063001.00
Stop 063700.84
FRT 063331.00
Corr/FF/build
2021:039:075018
2021:039:081808
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	103.8	87.4	114.6	104.6	114.4	103.0	93.0	85.2	Phase	101.7
	0.5	0.5	0.7	0.5	0.5	0.6	0.5	0.5	Ampl.	0.5
	260.4	260.7	260.6	260.7	260.3	260.7	260.7	260.1	Sbd box	260.5
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	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	Mani 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	
									Tracks	
Group delay (usec)(sbd)	-1.50845589086E+03		Apriori delay (usec)		-1.50847010488E+03		Resid mbdelay (usec)		-1.41098E-03	+/- 4.2E-05
Sband delay (usec)	-1.50845627538E+03		Apriori clock (usec)		-4.8283699E+01		Resid sbdelay (usec)		1.38295E-02	+/- 3.3E-04
Phase delay (usec)	-1.50847010167E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		3.21116E-06	+/- 1.4E-07
Delay rate (us/s)	4.29642313462E-02		Apriori rate (us/s)		4.29642164199E-02		Resid rate (us/s)		1.49263E-08	+/- 5.8E-10
Total phase (deg)	93.3		Apriori accel (us/s/s)		9.68122832535E-06		Resid phase (deg)		101.7	+/- 4.4

ph/seg (deg) 61.8 10.6 Search (2048X32) 0.506 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 89.2 18.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 12.2 6.3 Inc. seg. avg. 0.940 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 11.8 11.0 Inc. frq. avg. 0.535 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
Z: az 295.9 el 33.9 pa 36.5 X: az 288.9 el 38.8 pa 42.8 u,v (fr/asec) -321.703 864.631 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZX..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZX.W.23.1JFPMR

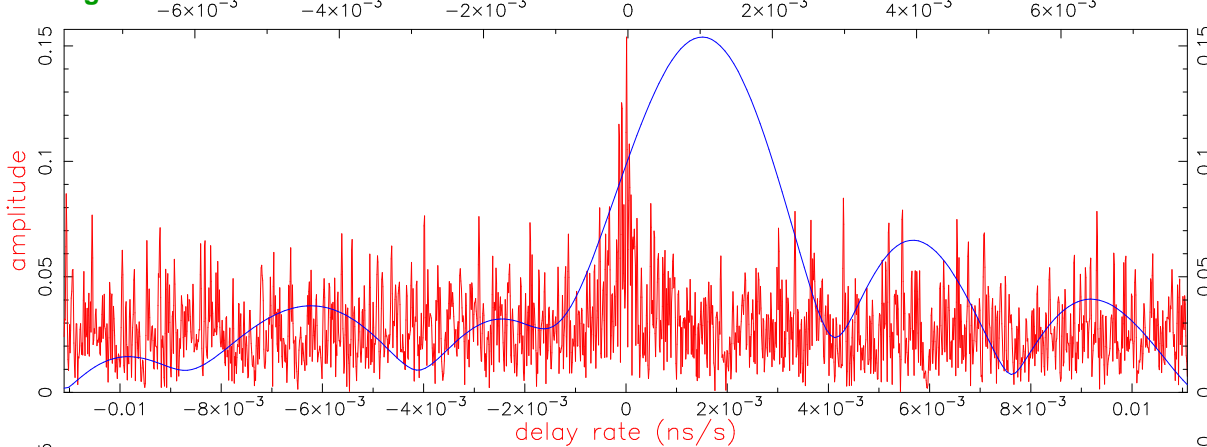
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, ZX

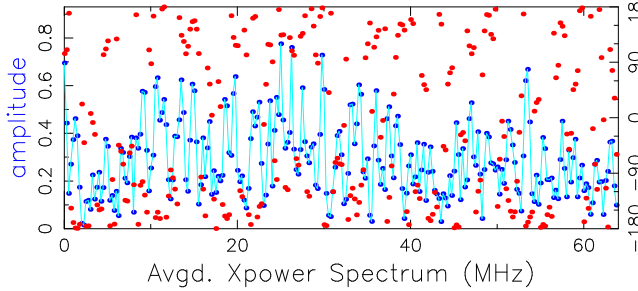
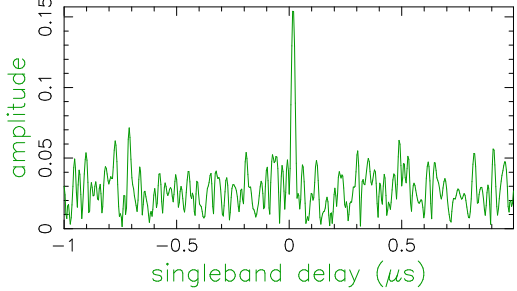
METSAHOV - ONSALA60, fgroup W, pol LR

multiband delay (μs)



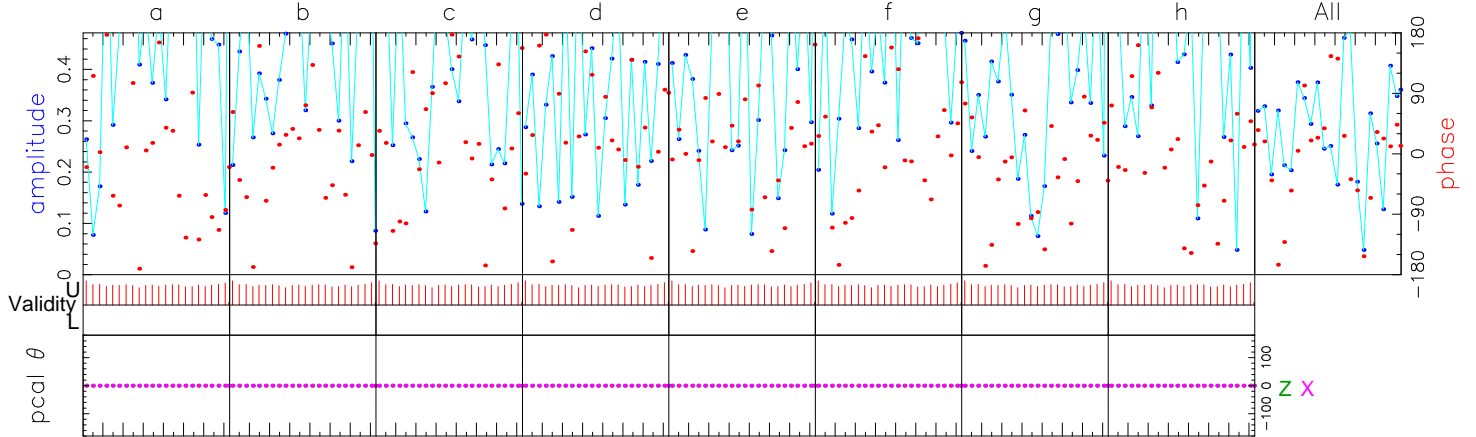
Fringe quality 9

SNR 7.5
 Int time 302.272
 Amp 0.157
 Phase 13.6
 PFD 2.5e-05
 Delays (us)
 SBD 0.017542
 MBD 0.001003
 Fringe rate (Hz) 0.001071
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081811
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-37.6	5.8	23.0	52.9	22.9	8.9	1.4	9.7	Phase	13.6
	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.2
	500.3	261.4	391.6	60.3	260.7	437.7	262.0	95.2	Sbd box	261.5
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	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	Mani 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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.50845347692E+03	Apriori delay (usec)	-1.50847010488E+03	Resid mbdelay (usec)	1.00296E-03	+/-	1.5E-04
Sband delay (usec)	-1.50845256263E+03	Apriori clock (usec)	-4.8283699E+01	Resid sbdelay (usec)	1.75423E-02	+/-	1.2E-03
Phase delay (usec)	-1.50847010445E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	4.31074E-07	+/-	4.8E-07
Delay rate (us/s)	4.29642285943E-02	Apriori rate (us/s)	4.29642164199E-02	Resid rate (us/s)	1.21744E-08	+/-	2.0E-09
Total phase (deg)	5.3	Apriori accel (us/s/s)	9.68122832535E-06	Resid phase (deg)	13.6	+/-	15.3

ph/seg (deg)	RMS 79.6	Theor. 36.7	Amplitude Search (2048X32)	0.153	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	105.9	64.0	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)	27.7	21.7	Inc. seg. avg.	0.238	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	29.3	37.9	Inc. frq. avg.	0.152	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 295.9 el 33.9 pa 36.5 X: az 288.9 el 38.8 pa 42.8 u,v (fr/asec) -321.703 864.631 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZX..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZX.W.37.1JFPMR

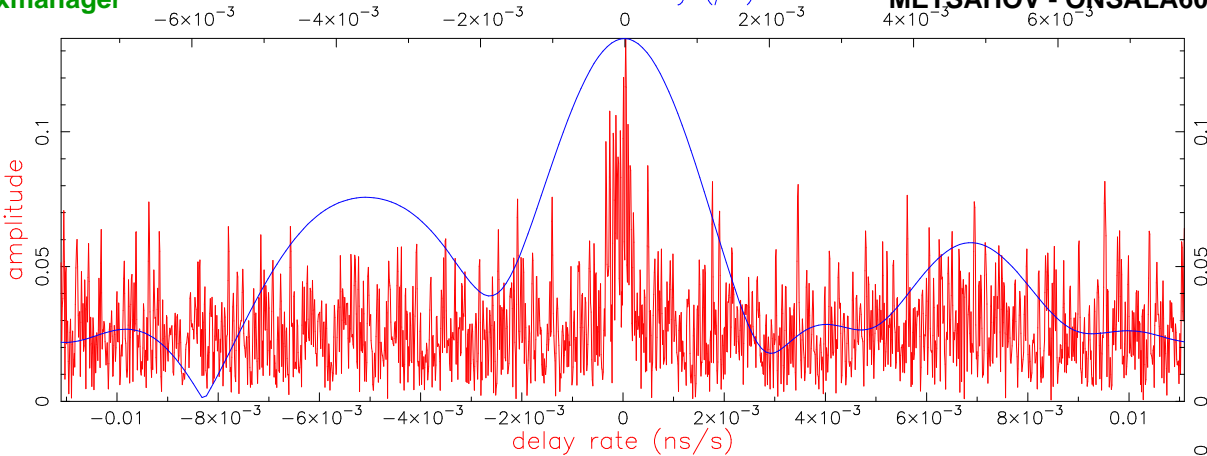
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, ZX

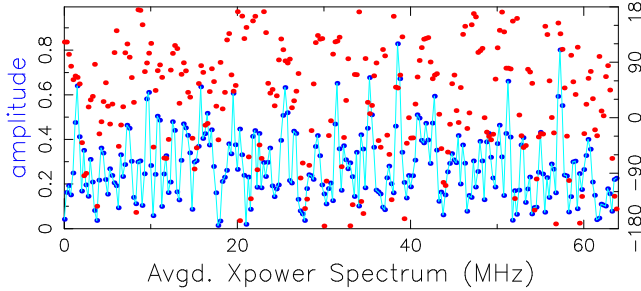
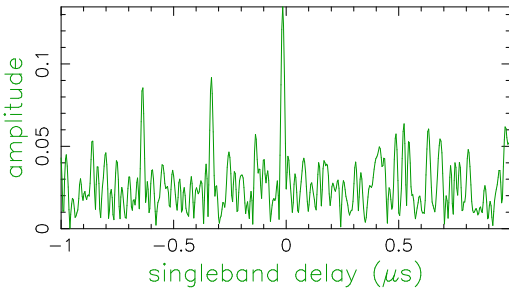
METSAHOV - ONSALA60, fgroup W, pol RL

multiband delay (μ s)



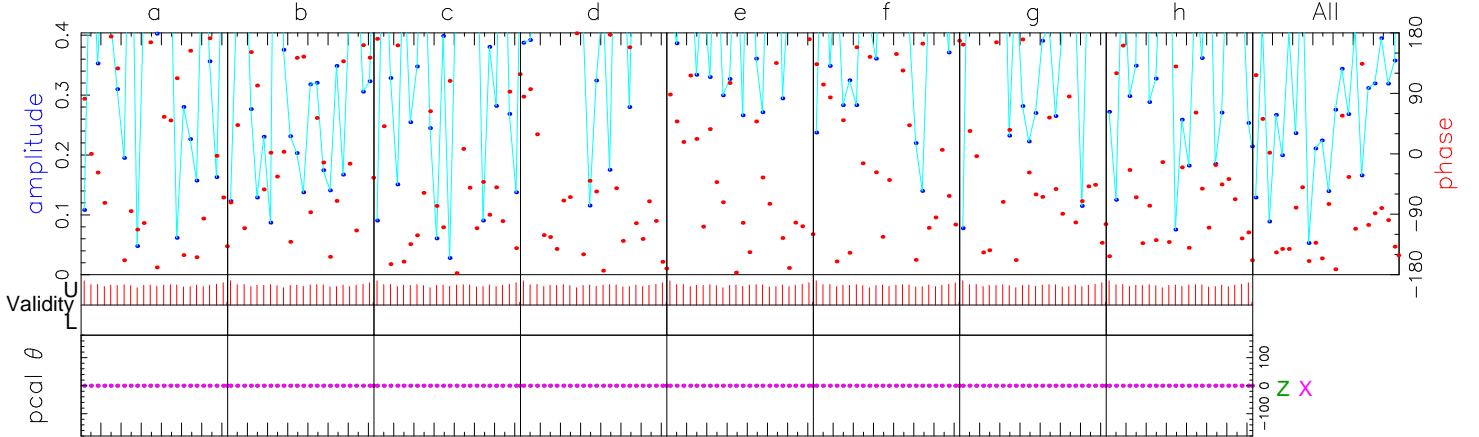
Fringe quality 0

SNR 6.4
 Int time 302.272
 Amp 0.135
 Phase -108.0
 PFD 4.1e-02
 Delays (us)
 SBD -0.015384
 MBD -0.000000
 Fringe rate (Hz)
 0.005212
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081814
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



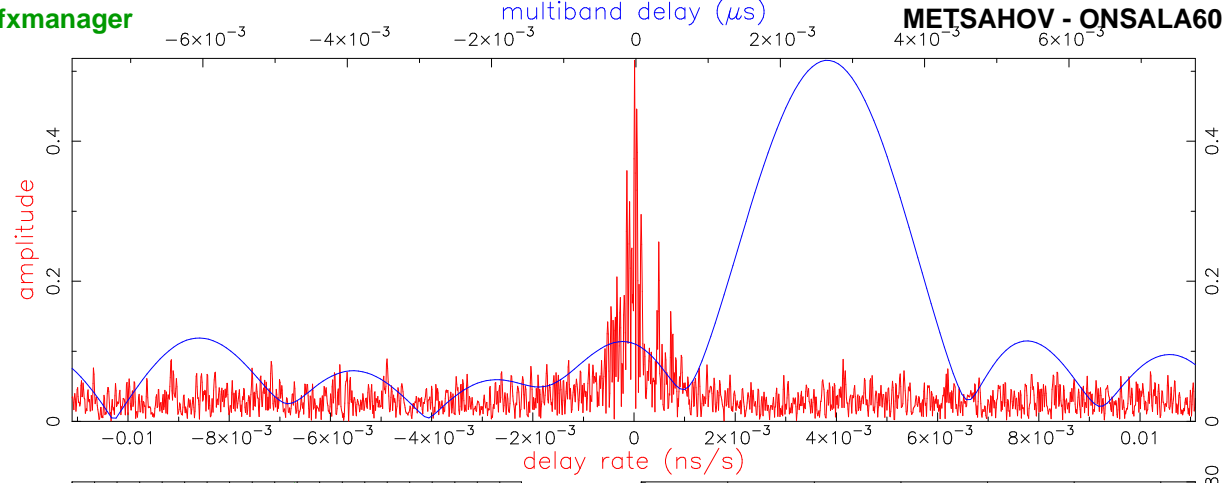
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-110.4	-59.9	-97.7	-118.5	-141.5	-177.7	-86.0	-96.8	Phase	-108.0
	0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.2	Ampl.	0.1
	316.2	237.3	170.8	253.1	173.2	159.7	463.3	253.3	Sbd box	253.1
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	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	Mani 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) -1.50848573035E+03 Apriori delay (usec) -1.50847010488E+03 Resid mbdelay (usec) -4.70799E-07 +/- 1.7E-04
 Sband delay (usec) -1.50848548863E+03 Apriori clock (usec) -4.8283699E+01 Resid sbdelay (usec) -1.53838E-02 +/- 1.3E-03
 Phase delay (usec) -1.50847010829E+03 Apriori clockrate (us/s) -5.1200000E-07 Resid phdelay (usec) -3.41134E-06 +/- 5.7E-07
 Delay rate (us/s) 4.29642756880E-02 Apriori rate (us/s) 4.29642164199E-02 Resid rate (us/s) 5.92681E-08 +/- 2.3E-09
 Total phase (deg) -116.4 Apriori accel (us/s/s) 9.68122832535E-06 Resid phase (deg) -108.0 +/- 17.9

RMS Theor. Amplitude 0.135 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 76.0 42.8 Search (2048X32) 0.131 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 141.6 74.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 39.0 25.3 Inc. seg. avg. 0.219 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 59.5 44.2 Inc. frq. avg. 0.137 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 295.9 el 33.9 pa 36.5 X: az 288.9 el 38.8 pa 42.8 u,v (fr/asec) -321.703 864.631 simultaneous interpolator

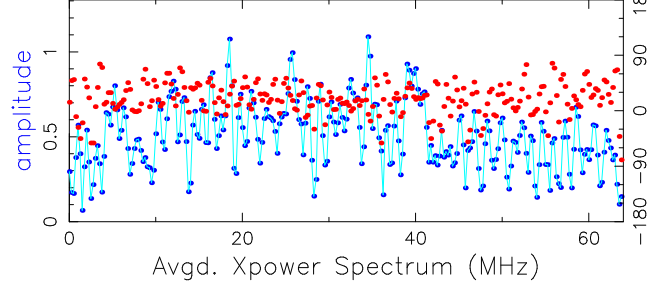
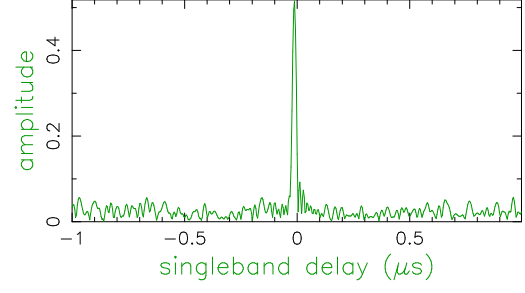
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZX..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZX.W.51.1JFPMR



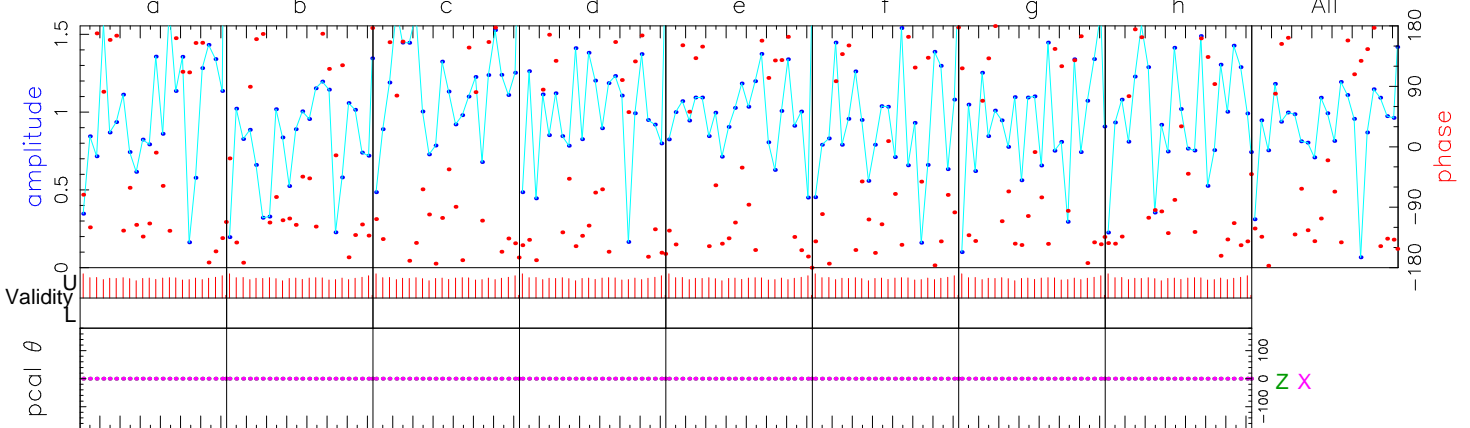
Fringe quality 7

SNR 24.6
Int time 302.272
Amp 0.518
Phase -154.6
PFD 0.0e+00
Delays (us)
SBD -0.012706
MBD 0.002622
Fringe rate (Hz) 0.001345
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512

Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 063001.00
Stop 063700.84
FRT 063331.00
Corr/FF/build
2021:039:075018
2021:039:081805
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



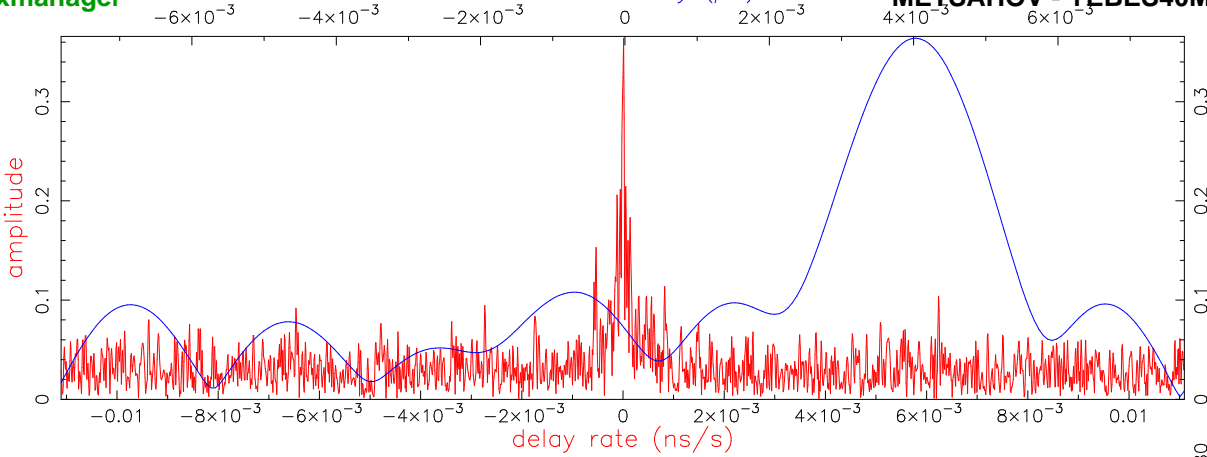
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
Group delay (usec)(sbd)	-156.6	-137.9	-159.8	-160.5	-167.0	-151.9	-155.5	-143.4		-154.6
Sband delay (usec)	0.5	0.4	0.7	0.5	0.5	0.5	0.5	0.6		0.5
Phase delay (usec)	254.1	253.1	254.0	253.8	253.7	254.1	253.9	253.7		253.7
Delay rate (us/s)	U/L 816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0		
	Z 1000	1000	1000	1000	1000	1000	1000	1000		APs used
	X 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z:X 0:0	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	0:0		Mani PC
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X 1000	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)	-1.50848310745E+03		Apriori delay (usec)		-1.50847010488E+03		Resid mbdelay (usec)		2.62243E-03	+/- 4.4E-05
Sband delay (usec)	-1.50848281038E+03		Apriori clock (usec)		-4.8283699E+01		Resid sbdelay (usec)		-1.27055E-02	+/- 3.5E-04
Phase delay (usec)	-1.50847010977E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-4.88474E-06	+/- 1.5E-07
Delay rate (us/s)	4.29642317134E-02		Apriori rate (us/s)		4.29642164199E-02		Resid rate (us/s)		1.52935E-08	+/- 6.1E-10
Total phase (deg)	-163.0		Apriori accel (us/s/s)		9.68122832535E-06		Resid phase (deg)		-154.6	+/- 4.7

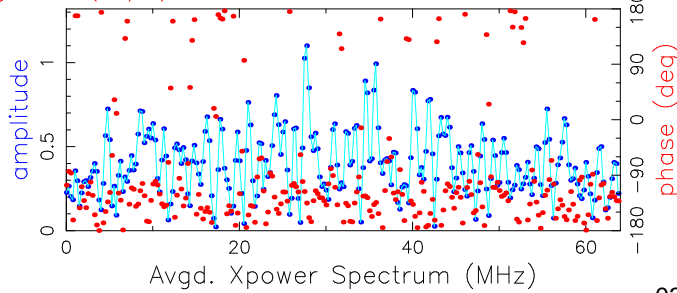
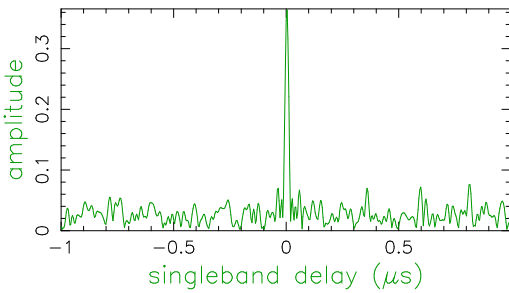
ph/seg (deg) 60.2 11.1 Search (2048X32) 0.481 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 89.1 19.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 10.3 6.6 Inc. seg. avg. 0.879 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 13.3 11.5 Inc. frq. avg. 0.518 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
Z: az 295.9 el 33.9 pa 36.5 X: az 288.9 el 38.8 pa 42.8 u,v (fr/asec) -321.703 864.631 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZX..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZX.W.8.1JFPMR

multiband delay (μ s)



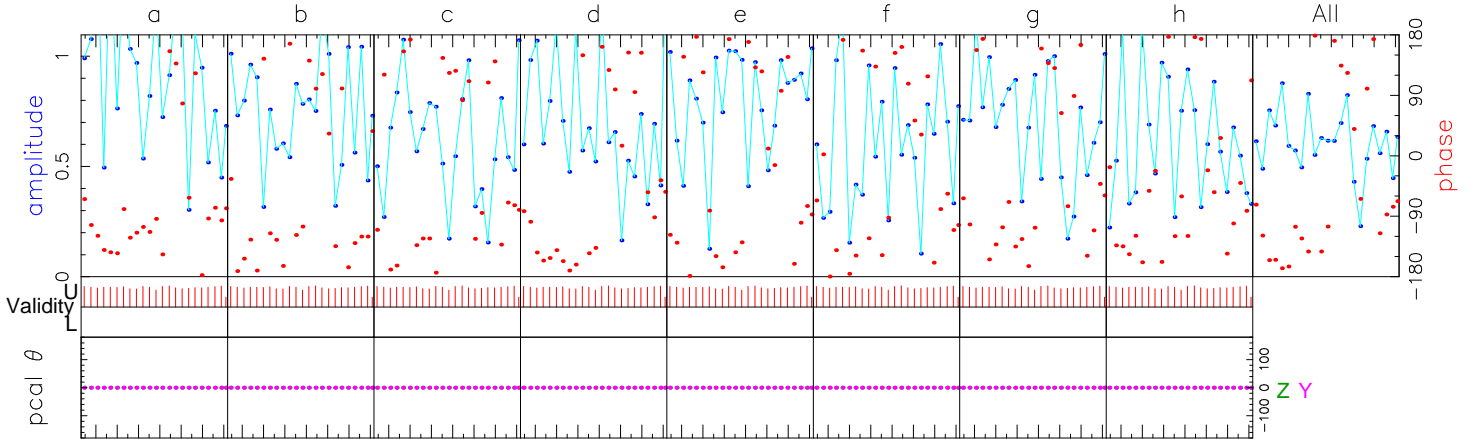
Fringe quality 9

SNR 16.9
 Int time 286.193
 Amp 0.366
 Phase -148.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.002980
 MBD 0.004001
 Fringe rate (Hz)
 0.000517
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063018.41
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081805
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-126.5	-157.0	-169.1	-155.4	-166.2	-158.8	-145.9	-115.6	Phase	-148.3
	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.3	Ampl.	0.4
	257.6	256.8	257.1	258.4	257.6	259.1	258.1	257.3	Sbd box	257.8
U/L	782/0	782/0	782/0	782/0	782/0	782/0	782/0	782/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -2.32965416665E+03 Apriori delay (usec) -2.32965816743E+03 Resid mbdelay (usec) 4.00078E-03 +/- 6.4E-05
 Sband delay (usec) -2.32965518768E+03 Apriori clock (usec) -1.3561485E+01 Resid sbdelay (usec) 2.97975E-03 +/- 5.1E-04
 Phase delay (usec) -2.32965817211E+03 Apriori clockrate (us/s) -1.0399999E-07 Resid phdelay (usec) -4.68453E-06 +/- 2.1E-07
 Delay rate (us/s) 2.32293066843E-01 Apriori rate (us/s) 2.32293060967E-01 Resid rate (us/s) 5.87656E-09 +/- 9.3E-10
 Total phase (deg) -236.0 Apriori accel (us/s/s) 2.86746775157E-05 Resid phase (deg) -148.3 +/- 6.8

RMS Theor. Amplitude 0.366 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.6 16.2 Search (2048X32) 0.348 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 76.9 28.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 20.6 9.6 Inc. seg. avg. 0.586 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 21.1 16.7 Inc. frq. avg. 0.377 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 295.9 el 33.9 pa 36.5 Y: az 294.0 el 41.9 pa 67.9 u,v (fr/asec) -1775.781 3532.641 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZY..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZY.W.10.1JFPMR

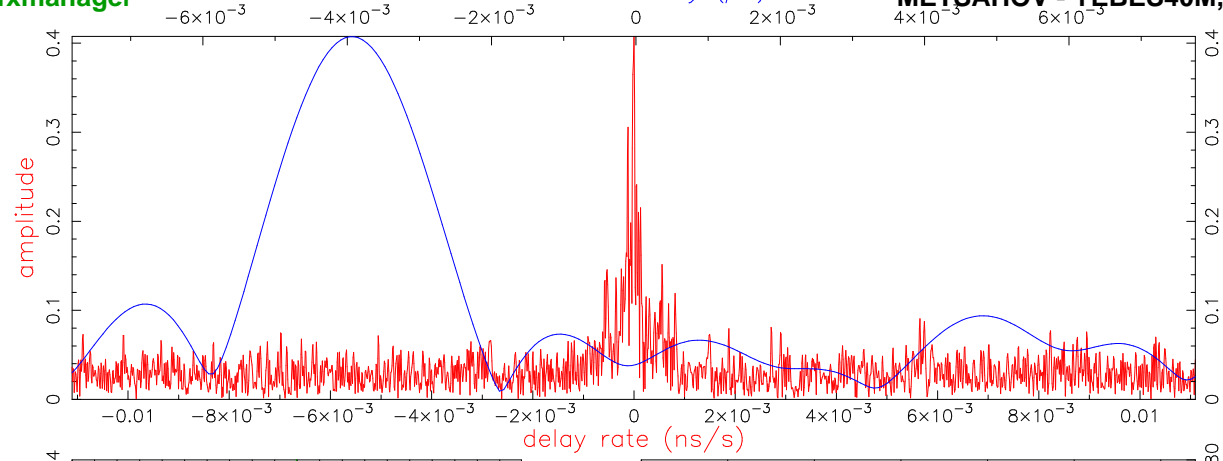
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

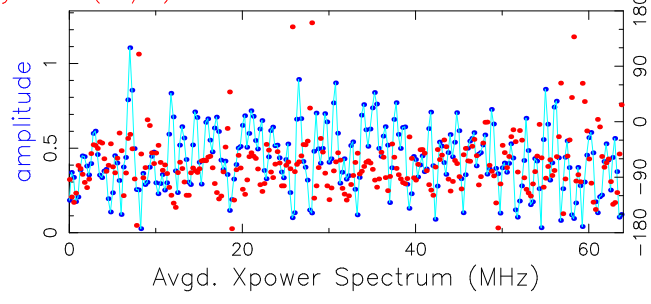
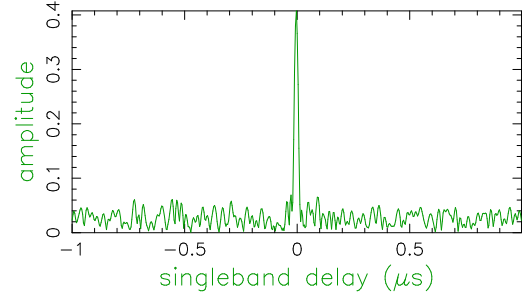
3C84.1JFPMR, No0057, ZY

METSÁHOV - YEBES40M, fgroup W, pol RR

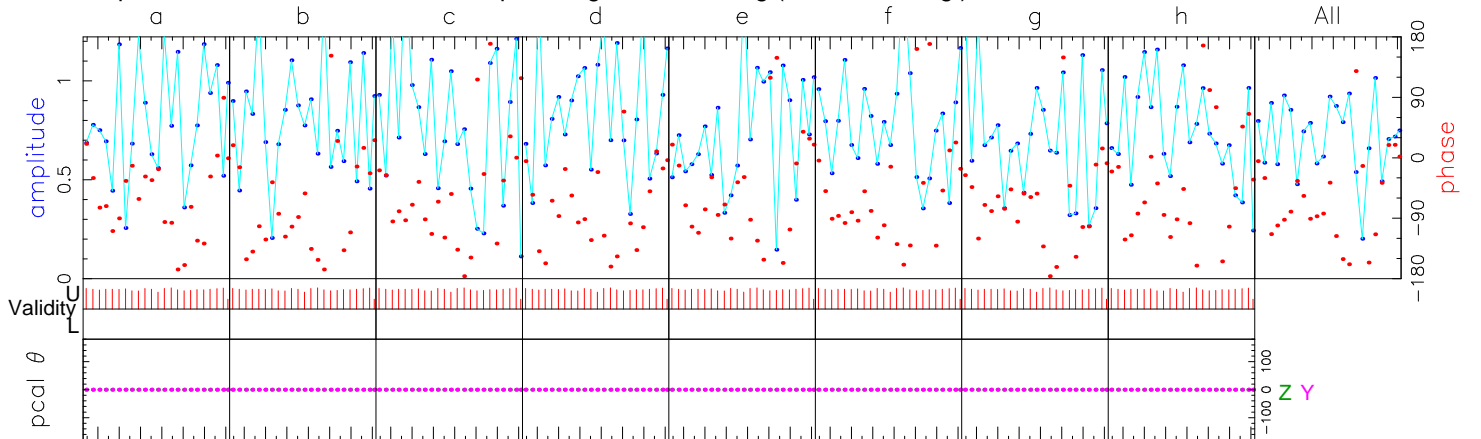
multiband delay (μ s)



Fringe quality 9
 SNR 18.9
 Int time 286.193
 Amp 0.408
 Phase -80.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.004324
 MBD -0.003947
 Fringe rate (Hz) 0.000275
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063018.41
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081808
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	782/0	782/0	782/0	782/0	782/0	782/0	782/0	782/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.32966211408E+03	-2.32966249143E+03	-2.32965816996E+03	-2.32965816743E+03	-2.32965816743E+03	-2.32965816743E+03	-2.32965816743E+03	-2.32965816743E+03		
Sband delay (usec)	-2.32966249143E+03	-2.32966249143E+03	-2.32965816996E+03	-2.32965816743E+03	-2.32965816743E+03	-2.32965816743E+03	-2.32965816743E+03	-2.32965816743E+03		
Phase delay (usec)	-2.32965816996E+03	-2.32965816996E+03	-2.32965816996E+03	-2.32965816996E+03	-2.32965816996E+03	-2.32965816996E+03	-2.32965816996E+03	-2.32965816996E+03		
Delay rate (us/s)	2.32293064098E-01	2.32293064098E-01	2.32293064098E-01	2.32293064098E-01	2.32293064098E-01	2.32293064098E-01	2.32293064098E-01	2.32293064098E-01		
Total phase (deg)			-167.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 61.8 14.5
 amp/seg (%) 87.7 25.4
 ph/frq (deg) 11.9 8.6
 amp/frq (%) 17.7 15.0

Z: az 295.9 el 33.9 pa 36.5 Y: az 294.0 el 41.9 pa 67.9 u,v (fr/asec) -1775.781 3532.641

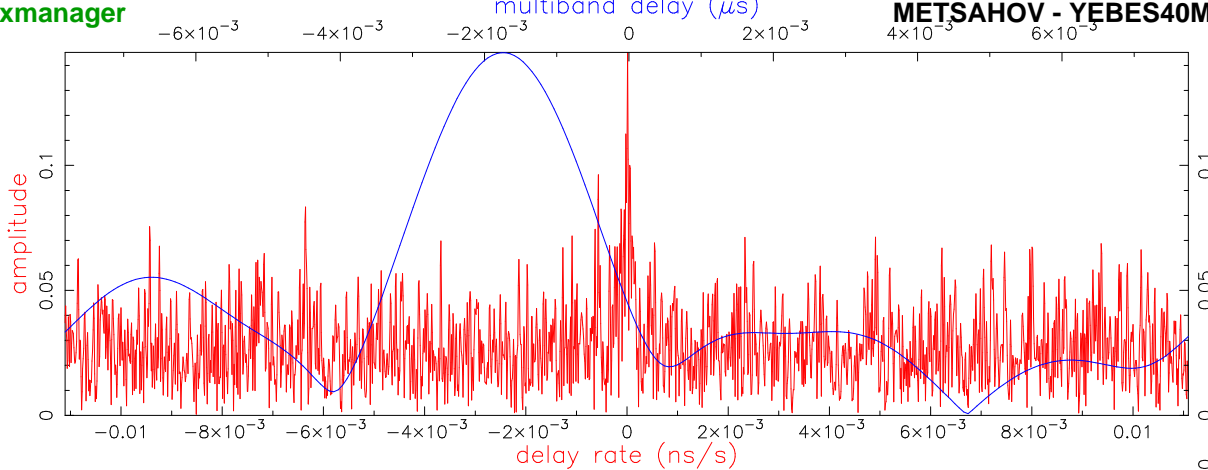
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZY..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZY.W.25.1JFPMR

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

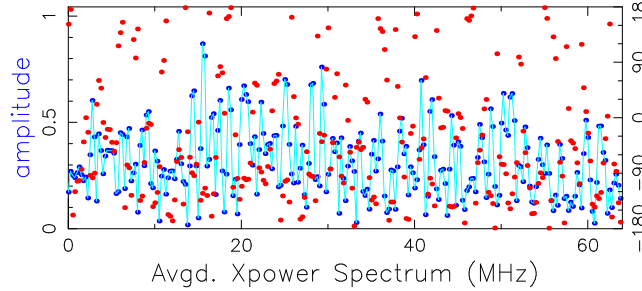
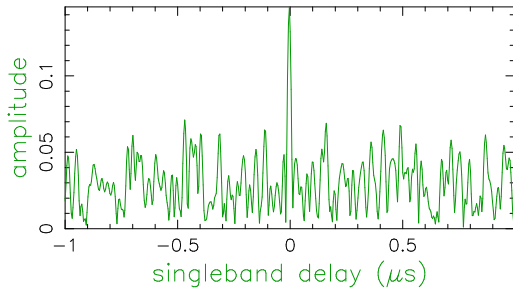
3C84.1JFPMR, No0057, ZY

METSAHOV - YEBES40M, fgroup W, pol LR



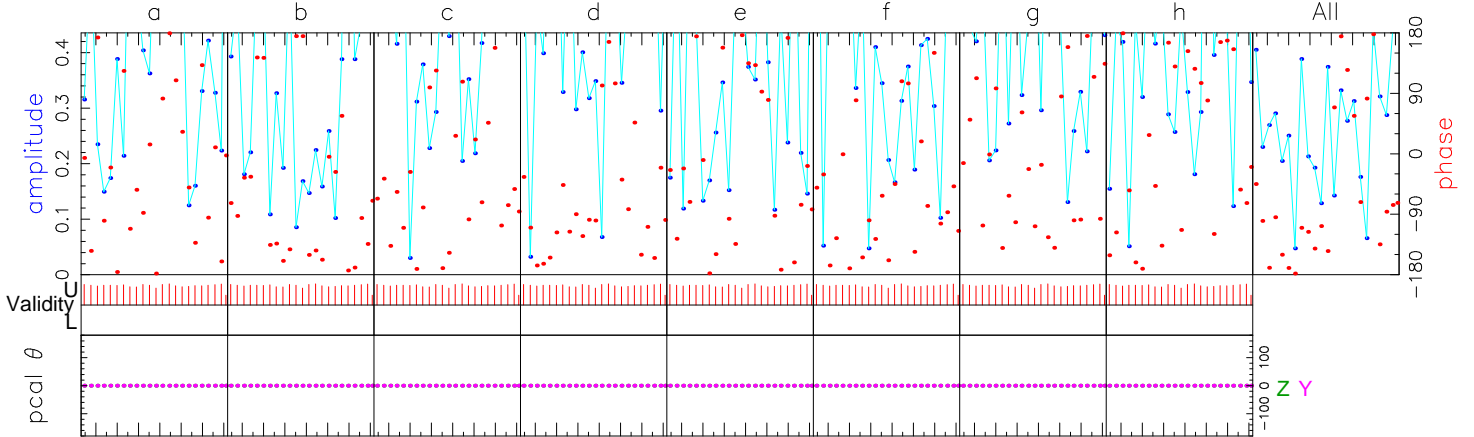
Fringe quality 0

SNR 6.7
 Int time 286.193
 Amp 0.145
 Phase -124.6
 PFD 5.3e-03
 Delays (us)
 SBD -0.004290
 MBD -0.001741
 Fringe rate (Hz) 0.000569
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063018.41
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081812
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-149.9	-140.0	-90.3	-121.4	-159.3	-102.7	-108.4	-154.1	Phase	-124.6
	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	66.9	255.3	30.9	256.0	178.6	348.0	288.9	396.6	Sbd box	255.9
U/L	782/0	782/0	782/0	782/0	782/0	782/0	782/0	782/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	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)	-2.32965990831E+03		Apriori delay (usec)		-2.32965816743E+03		Resid mbdelay (usec)		-1.74088E-03	+/- 1.6E-04
Sband delay (usec)	-2.32966245718E+03		Apriori clock (usec)		-1.3561485E+01		Resid sbdelay (usec)		-4.28975E-03	+/- 1.3E-03
Phase delay (usec)	-2.32965817136E+03		Apriori clockrate (us/s)		-1.0399999E-07		Resid phdelay (usec)		-3.93494E-06	+/- 5.4E-07
Delay rate (us/s)	2.32293067435E-01		Apriori rate (us/s)		2.32293060967E-01		Resid rate (us/s)		6.46859E-09	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		2.86746775157E-05		Resid phase (deg)		-124.6	+/- 17.1

ph/seg (deg) 75.2 40.8 Search (2048X32) 0.136 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 119.2 71.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.5 24.1 Inc. seg. avg. 0.216 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.8 42.1 Inc. frq. avg. 0.146 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 295.9 el 33.9 pa 36.5 Y: az 294.0 el 41.9 pa 67.9 u,v (fr/asec) -1775.781 3532.641 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZY..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZY.W.41.1JFPMR

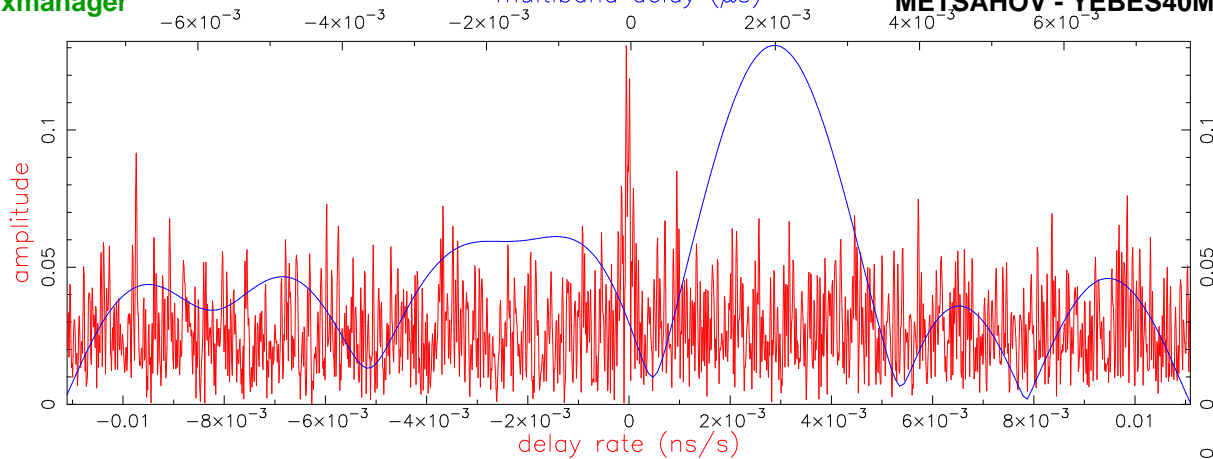
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, ZY

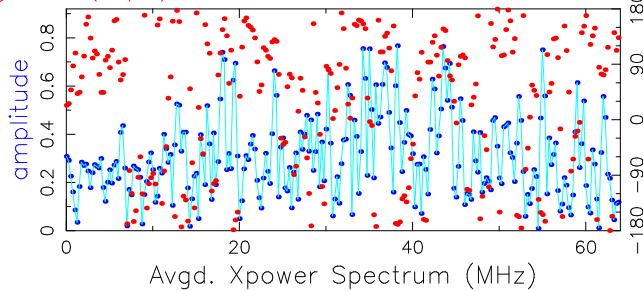
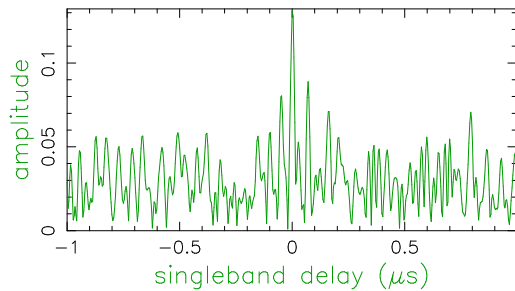
METSAHOV - YEBES40M, fgroup W, pol RL

multiband delay (μ s)



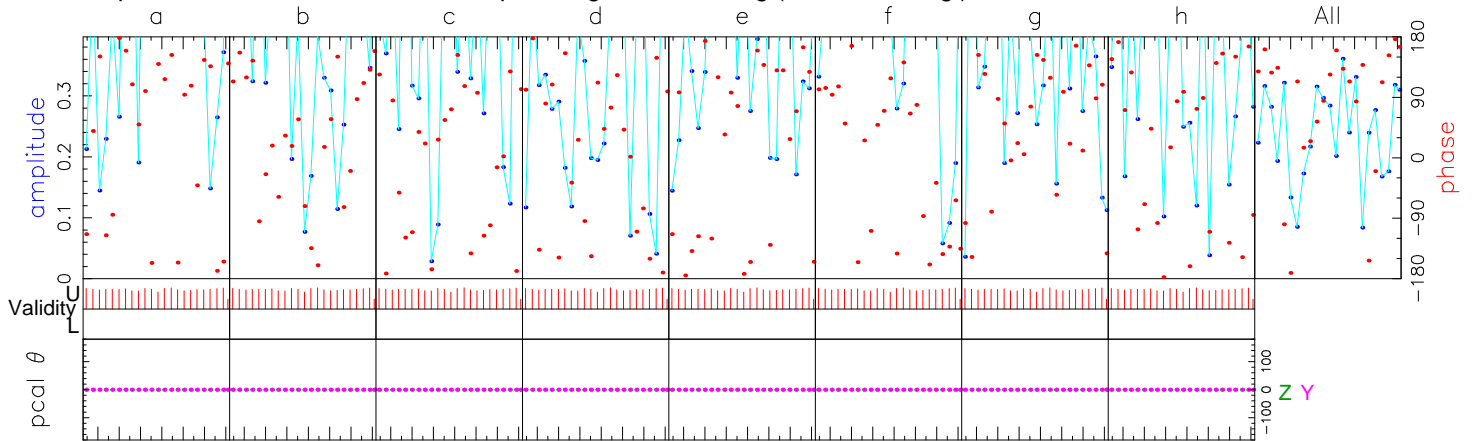
Fringe quality 0

SNR 6.1
 Int time 286.193
 Amp 0.132
 Phase 127.8
 PFD 2.2e-01
 Delays (us)
 SBD 0.001467
 MBD 0.002032
 Fringe rate (Hz)
 -0.005066
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063018.41
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081815
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	782/0	782/0	782/0	782/0	782/0	782/0	782/0	782/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.32965613554E+03	Apriori delay (usec)	-2.32965816743E+03	Resid mbdelay (usec)	2.03188E-03	+/-	1.8E-04
Sband delay (usec)	-2.32965670068E+03	Apriori clock (usec)	-1.3561485E+01	Resid sbdelay (usec)	1.46675E-03	+/-	1.4E-03
Phase delay (usec)	-2.32965816339E+03	Apriori clockrate (us/s)	-1.0399999E-07	Resid phdelay (usec)	4.03535E-06	+/-	5.9E-07
Delay rate (us/s)	2.32293003358E-01	Apriori rate (us/s)	2.32293060967E-01	Resid rate (us/s)	-5.76086E-08	+/-	2.6E-09
Total phase (deg)	40.1	Apriori accel (us/s/s)	2.86746775157E-05	Resid phase (deg)	127.8	+/-	18.7

ph/seg (deg)	62.3	Theor.	44.8	Amplitude	0.132 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	100.5	Search (2048X32)	0.129	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	27.8	Inc. seg. avg.	0.184	Inc. frq. avg.	0.128	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	46.6	Inc. frq. avg.	0.128			Sample rate (MSamp/s):	128	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

Z: az 295.9 el 33.9 pa 36.5 Y: az 294.0 el 41.9 pa 67.9 u,v (fr/asec) -1775.781 3532.641 simultaneous interpolator

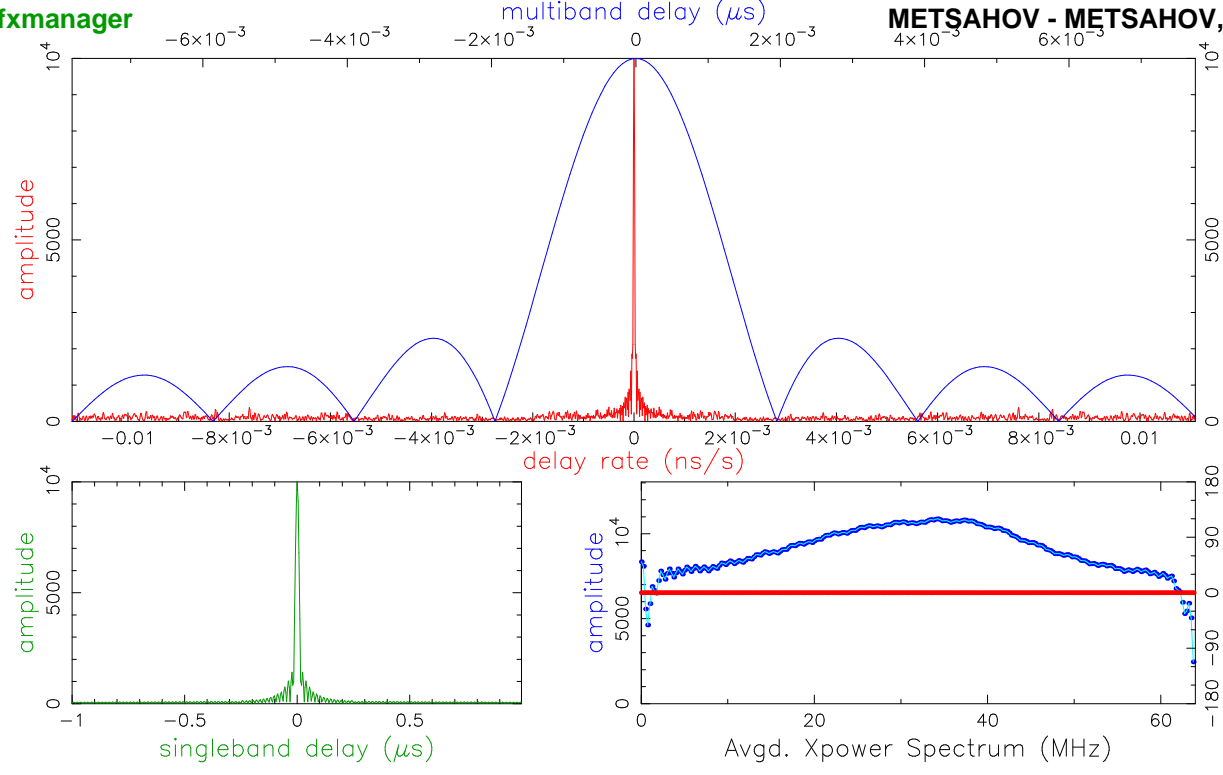
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZY..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZY.W.57.1JFPMR

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, ZZ

METŜAHOV - MET̂SAHOV, fgroup W, pol RR

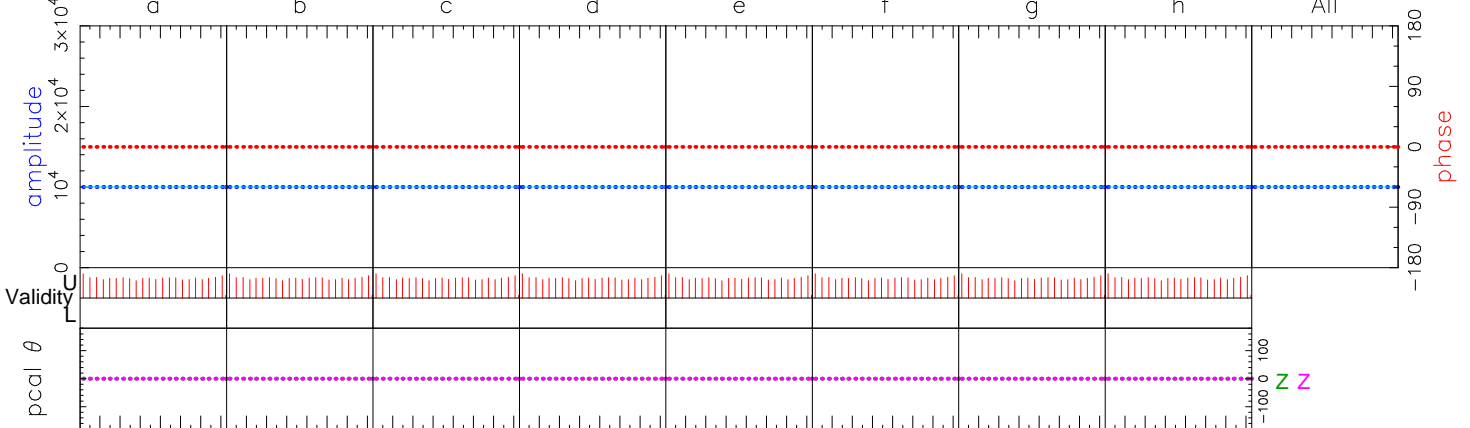


Fringe quality 9

SNR 475442.9
 Int time 302.272
 Amp 10000.038
 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)
 87940.0000
 AP (sec) 0.512

Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081808
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	Ampl.	10000.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.3E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.8E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 7.6E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.2E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.038 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.038 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.038 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

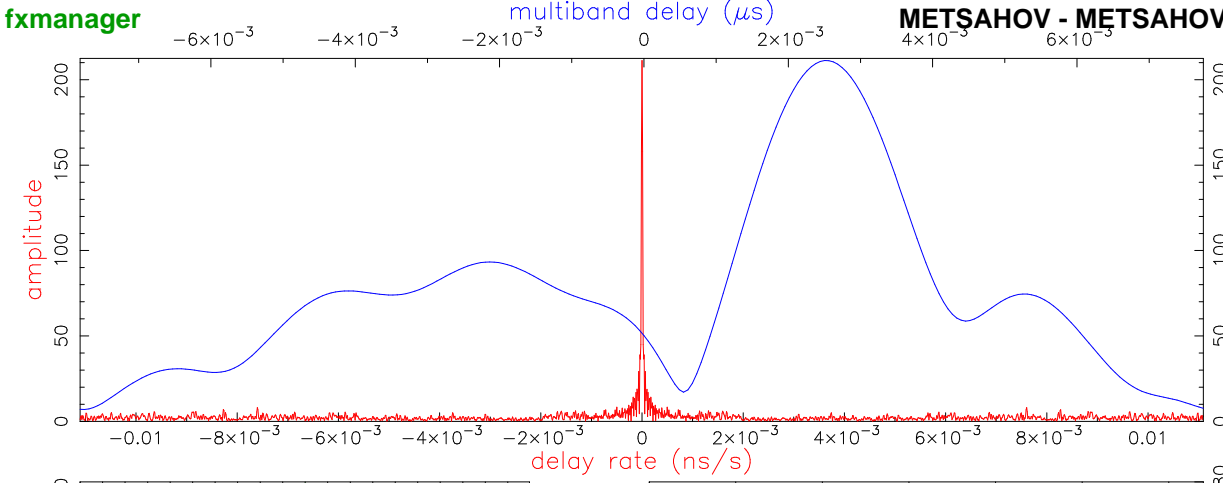
Z: az 295.9 el 33.9 pa 36.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZZ..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZZ.W.24.1JFPMR

Mk4/DiFX fourfit 3.21 rev 2937

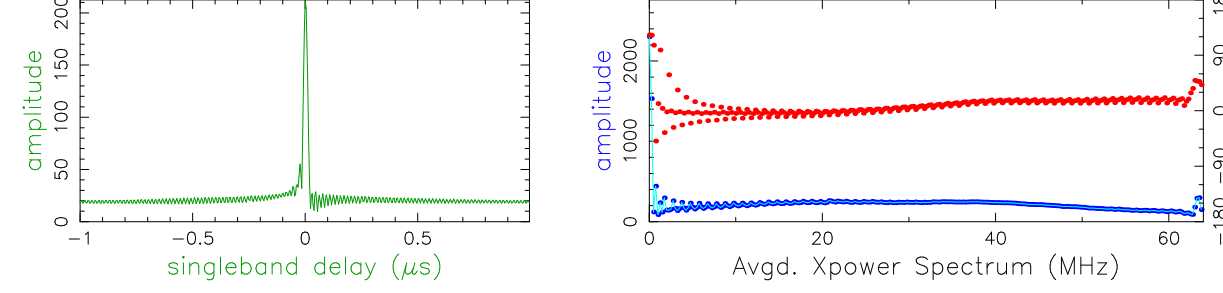
fxmanager

3C84.1JFPMR, No0057, ZZ

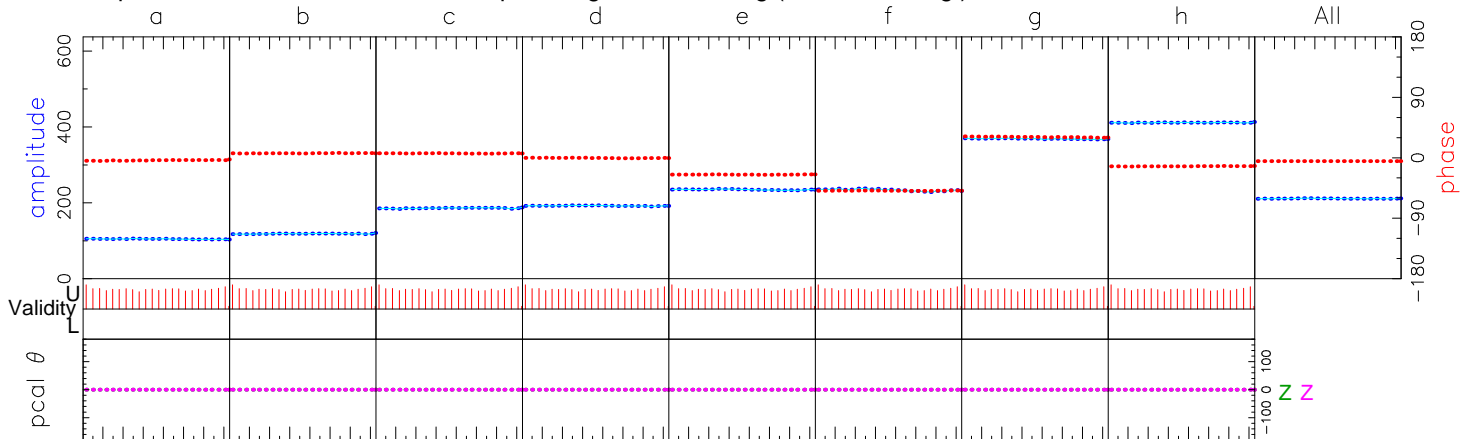
METŜAHOV - MET̂SAHOV, fgroup W, pol LR



Fringe quality 5
 SNR 10103.2
 Int time 302.272
 Amp 212.501
 Phase -5.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.001094
 MBD 0.002544
 Fringe rate (Hz) 0.000001
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081812
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-3.8	6.8	6.6	-0.3	-25.0	-49.0	30.9	-12.6	Phase	-5.0
	104.7	118.5	186.0	192.2	234.8	234.0	368.8	411.3	Ampl.	231.3
	258.6	257.3	257.0	257.9	257.0	258.5	256.4	257.2	Sbd box	257.3
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.54418750000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.54419E-03	+/- 1.1E-07
Sband delay (usec)	1.09375000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.09375E-03	+/- 8.5E-07
Phase delay (usec)	-1.59392386476E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.59392E-07	+/- 3.6E-10
Delay rate (us/s)	1.04108176059E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.04108E-11	+/- 1.5E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-5.0	+/- 0.0

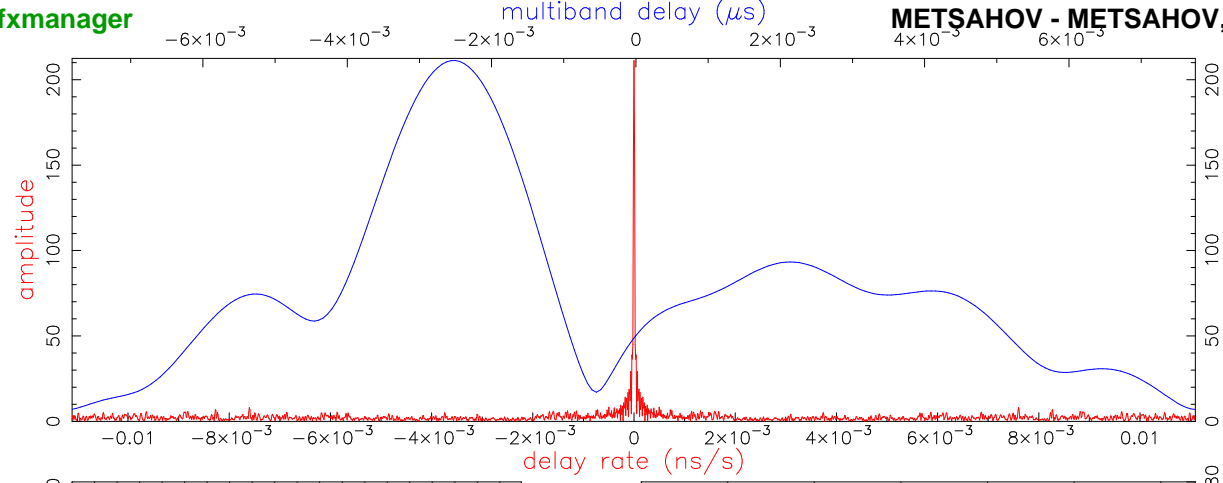
ph/seg (deg) 0.1 0.0 Theor. Amplitude 212.501 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.6 0.0 Search (2048X32) 210.657 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.9 0.0 Inc. seg. avg. 211.225 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 295.9 el 33.9 pa 36.5 Z: az 295.9 el 33.9 pa 36.5 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZZ..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZZ.W.42.1JFPMR simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFPMR, No0057, ZZ

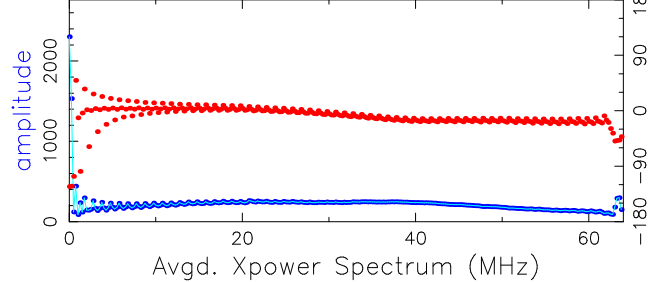
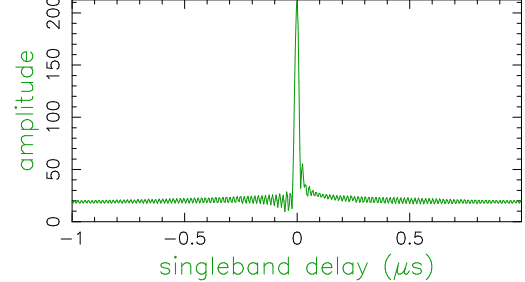
METŜAHOV - MET̂SAHOV, fgroup W, pol RL



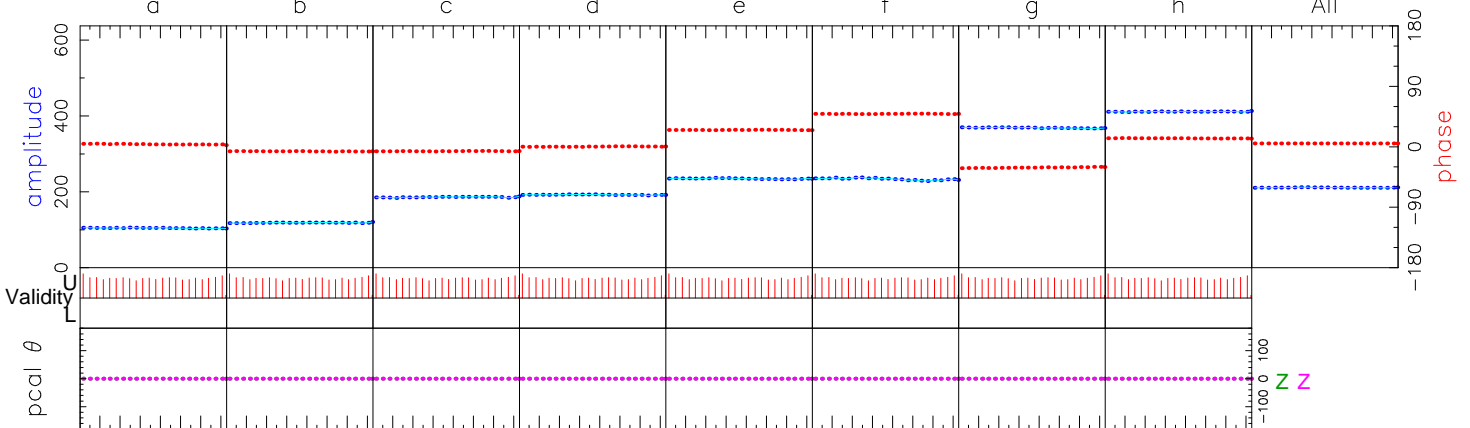
Fringe quality 5

SNR 10103.2
 Int time 302.272
 Amp 212.501
 Phase 5.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.001094
 MBD -0.002544
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512

Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081815
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



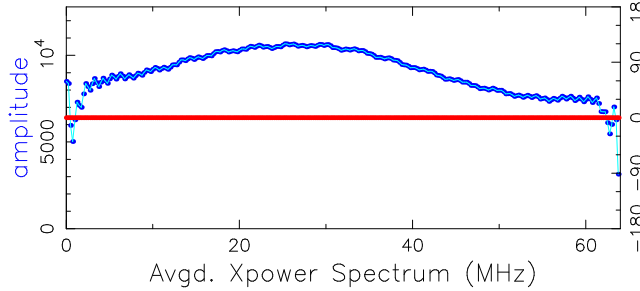
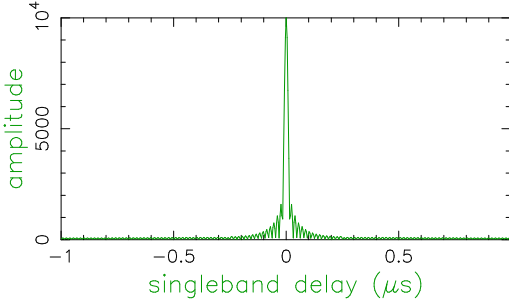
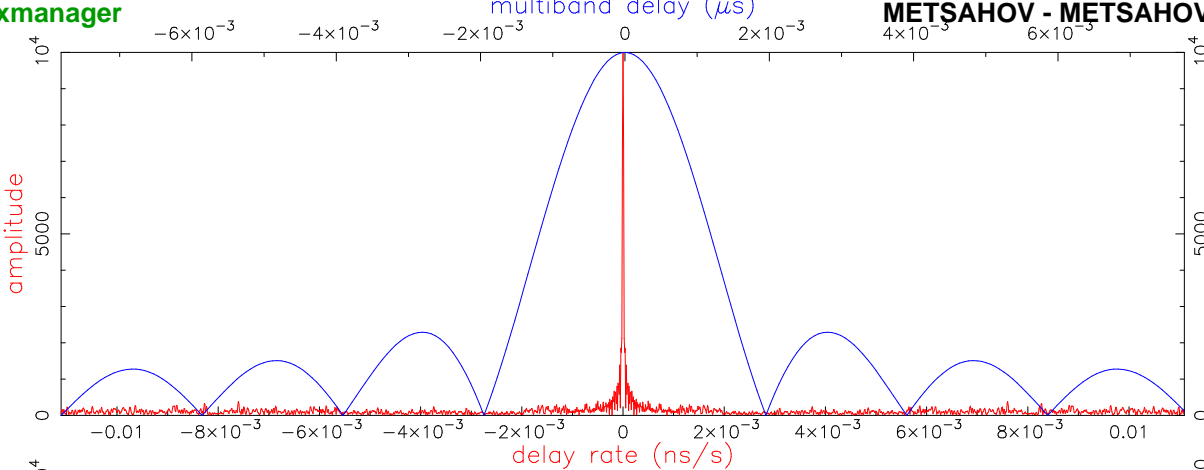
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.54418750000E-03									
Sband delay (usec)	-1.09375000000E-03									
Phase delay (usec)	1.59392386560E-07									
Delay rate (us/s)	-1.04108176059E-11									
Total phase (deg)			5.0							
Apriori delay (usec)					0.00000000000E+00					
Apriori clock (usec)					0.0000000E+00					
Apriori clockrate (us/s)					0.0000000E+00					
Apriori rate (us/s)					0.00000000000E+00					
Apriori accel (us/s/s)					0.00000000000E+00					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

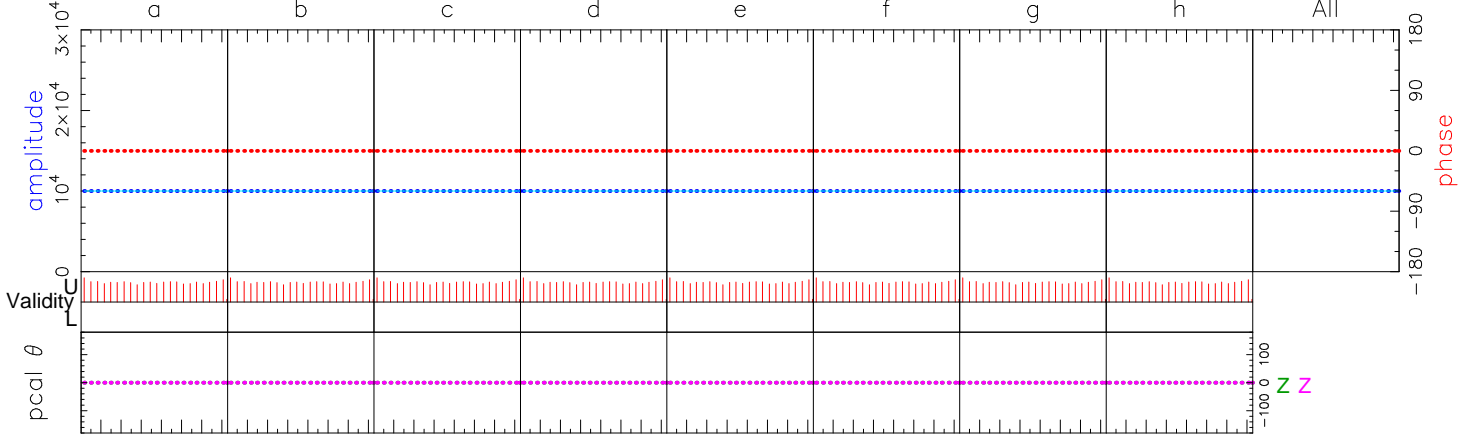
3C84.1JFPMR, No0057, ZZ

METŜAHOV - MET̂SAHOV, fgroup W, pol LL



Fringe quality 9
 SNR 475442.9
 Int time 302.272
 Amp 10000.038
 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) 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 063001.00
 Stop 063700.84
 FRT 063331.00
 Corr/FF/build
 2021:039:075018
 2021:039:081805
 2020:247:085004
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	816/0	816/0	816/0	816/0	816/0	816/0	816/0	816/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	2.3E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	1.8E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	7.6E-12
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	3.2E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	0.0	Theor.	0.0	Amplitude	10000.038 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.038	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Inc. frq. avg.	10000.038	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. frq. avg.	10000.038	u,v (fr/asec)	0.000 0.000	Sample rate (MSamp/s):	128	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
Z: az 295.9 el 33.9 pa 36.5	Z: az 295.9 el 33.9 pa 36.5			simultaneous interpolator									

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0057/ZZ..1JFPMR Output file: /Exps/c202c/v1/1234/No0057/ZZ.W.9.1JFPMR