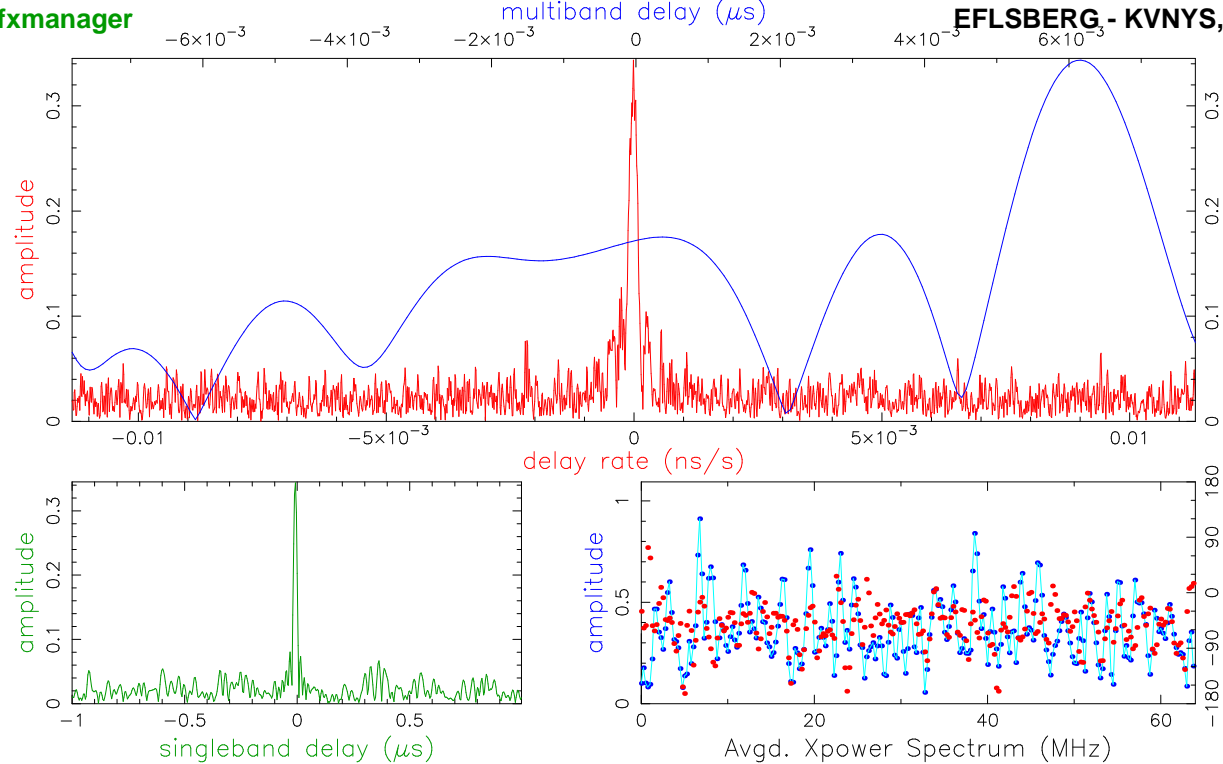


Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

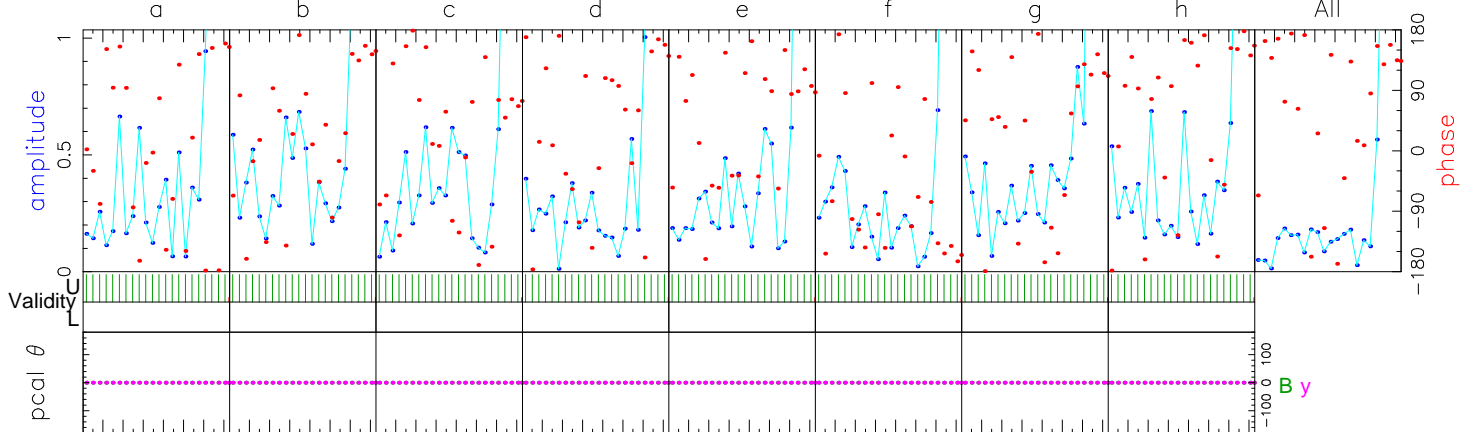
3C84.1W6A0V, No0212, By

EFLSBERG - KVNYS, fgroup W, pol RR



Fringe quality 8  
 SNR 19.3  
 Int time 419.817  
 Amp 0.345  
 Phase 140.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.008679  
 MBD 0.006130  
 Fringe rate (Hz)  
 -0.000936  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012659  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	6.63683451347E+03		Apriori delay (usec)		6.63684400805E+03		Resid mbdelay (usec)		6.13043E-03	+/- 5.6E-05
Sband delay (usec)	6.63683532905E+03		Apriori clock (usec)		-2.2770000E+01		Resid sbdelay (usec)		-8.67900E-03	+/- 4.5E-04
Phase delay (usec)	6.63684401258E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		4.53517E-06	+/- 1.9E-07
Delay rate (us/s)	1.40532435928E+00		Apriori rate (us/s)		1.40532437014E+00		Resid rate (us/s)		-1.08615E-08	+/- 7.9E-10
Total phase (deg)	87.7		Apriori accel (us/s/s)		-2.32497083982E-05		Resid phase (deg)		140.6	+/- 5.9

ph/seg (deg) 78.6 14.2 Search (2048X32) 0.337 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 201.6 24.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 46.5 8.4 Inc. seg. avg. 0.408 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 31.1 14.6 Inc. frq. avg. 0.428 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 B: az 88.7 el 58.2 pa -58.1 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -10805.984 -424.318 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/By..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/By.W.25.1W6A0V

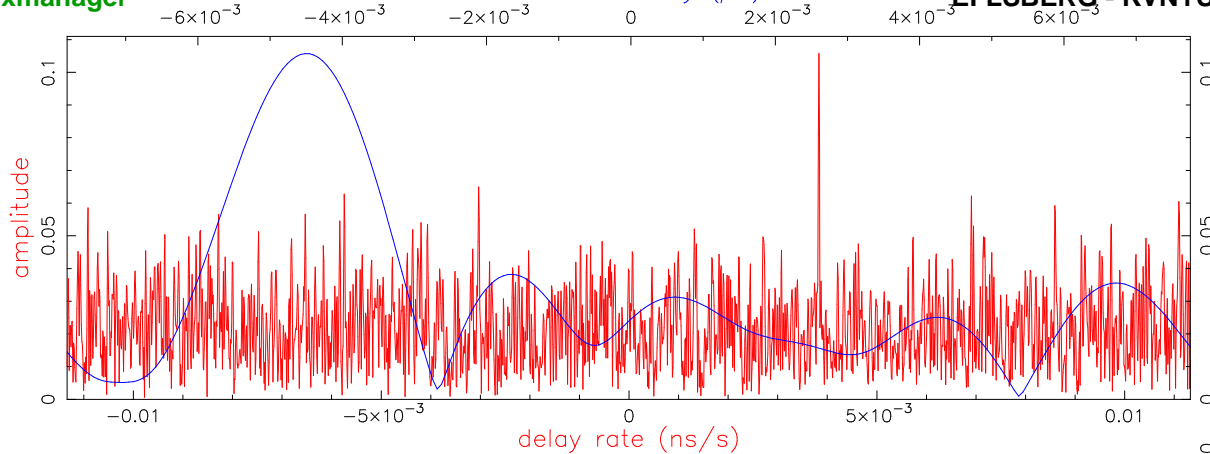
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, By

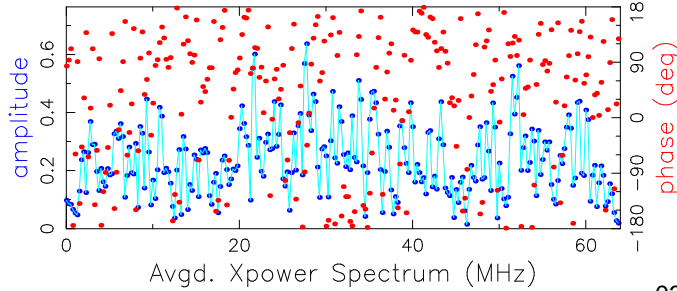
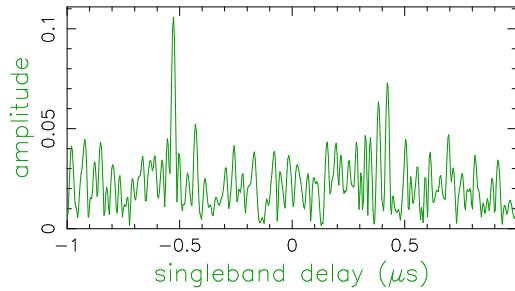
EFLSBERG - KVNYS, fgroup W, pol LR

multiband delay ( $\mu$ s)



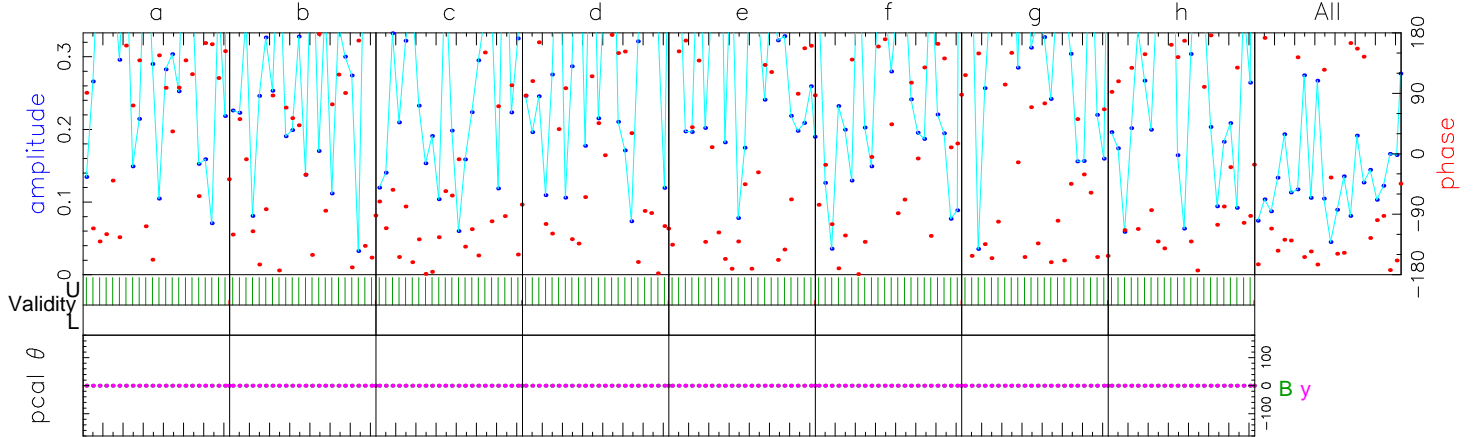
Fringe quality 0

SNR 5.9  
 Int time 419.817  
 Amp 0.111  
 Phase -156.6  
 PFD 5.4e-01  
 Delays (us)  
 SBD -0.527789  
 MBD -0.004512  
 Fringe rate (Hz)  
 0.330014  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012704  
 2021:252:122852  
 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



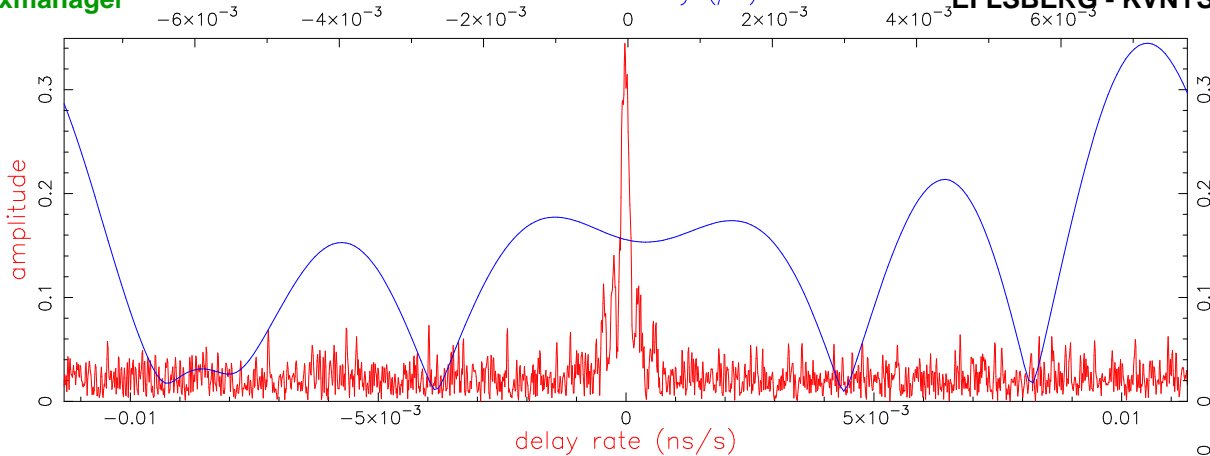
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	175.4	-162.6	-117.3	-161.5	-169.2	-155.1	-153.1	-160.1	Phase	-156.6
	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	511.3	270.6	120.4	424.4	433.0	79.0	365.4	320.9	Sbd box	121.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	6.63632387150E+03		Apriori delay (usec)		6.63684400805E+03		Resid mbdelay (usec)		-4.51155E-03	+/- 1.8E-04
Sband delay (usec)	6.63631621855E+03		Apriori clock (usec)		-2.2770000E+01		Resid sbdelay (usec)		-5.27789E-01	+/- 1.5E-03
Phase delay (usec)	6.63684400300E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.05021E-06	+/- 6.2E-07
Delay rate (us/s)	1.40532820128E+00		Apriori rate (us/s)		1.40532437014E+00		Resid rate (us/s)		3.83114E-06	+/- 2.6E-09
Total phase (deg)	150.5		Apriori accel (us/s/s)		-2.32497083982E-05		Resid phase (deg)		-156.6	+/- 19.3

	RMS	Theor.	Amplitude	0.111 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	46.3	46.3	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	60.6	80.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	20.7	27.3	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	28.6	47.7	Inc. frq. avg.	0.106	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 88.7 el 58.2 pa -58.1 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -10805.984 -424.318 simultaneous interpolator

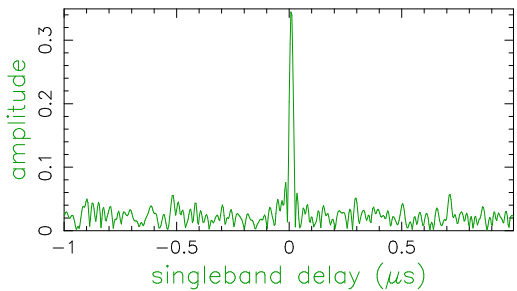
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/By..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/By.W.48.1W6A0V

multiband delay ( $\mu$ s)

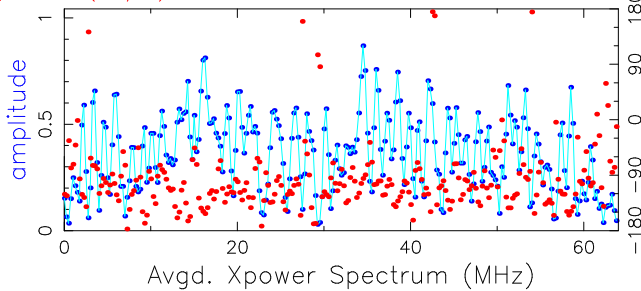


Fringe quality 8

SNR 19.6  
 Int time 419.817  
 Amp 0.349  
 Phase -87.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.009421  
 MBD 0.007237  
 Fringe rate (Hz)  
 -0.002143  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

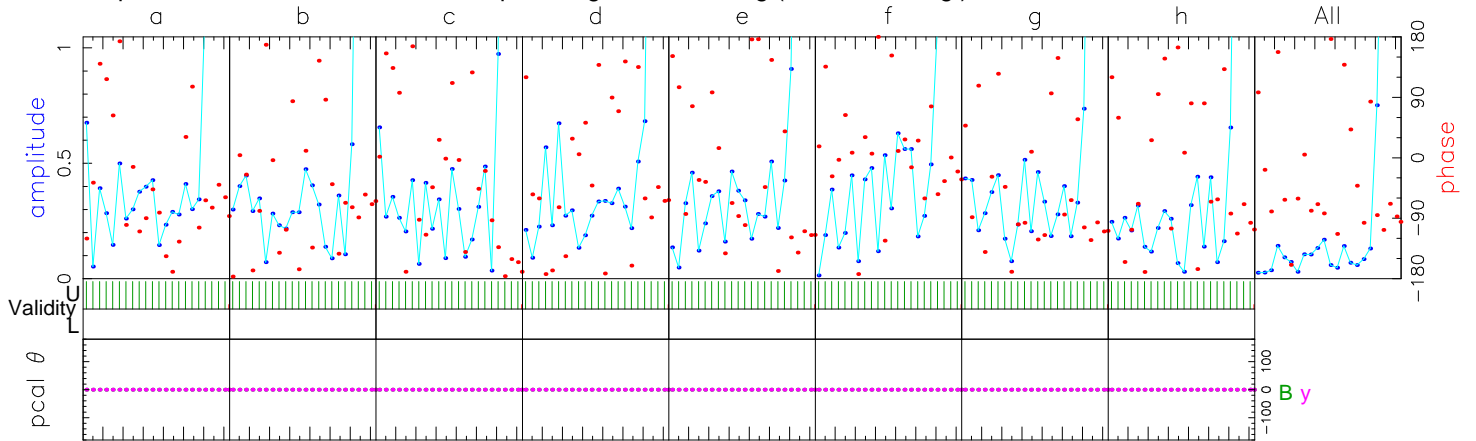


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012656  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.6	-72.7	-159.4	-71.3	-119.6	-12.9	-106.9	-100.5	Phase	-87.9
	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	Ampl.	0.4
	258.5	259.4	260.1	260.7	259.8	259.8	259.6	257.8	Sbd box	259.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.63685124471E+03		Apriori delay (usec)		6.63684400805E+03		Resid mbdelay (usec)		7.23667E-03	+/- 5.5E-05
Sband delay (usec)	6.63685342855E+03		Apriori clock (usec)		-2.2770000E+01		Resid sbdelay (usec)		9.42050E-03	+/- 4.4E-04
Phase delay (usec)	6.63684400521E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.83566E-06	+/- 1.9E-07
Delay rate (us/s)	1.40532434526E+00		Apriori rate (us/s)		1.40532437014E+00		Resid rate (us/s)		-2.48838E-08	+/- 7.8E-10
Total phase (deg)	219.2		Apriori accel (us/s/s)		-2.32497083982E-05		Resid phase (deg)		-87.9	+/- 5.9

	RMS	Theor.	Amplitude	0.349 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	79.8	14.0	Search (2048X32)	0.341	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	206.7	24.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	46.7	8.3	Inc. seg. avg.	0.395	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	34.3	14.4	Inc. frq. avg.	0.448	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 88.7 el 58.2 pa -58.1 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -10805.984 -424.318 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/By..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/By.W.5.1W6A0V

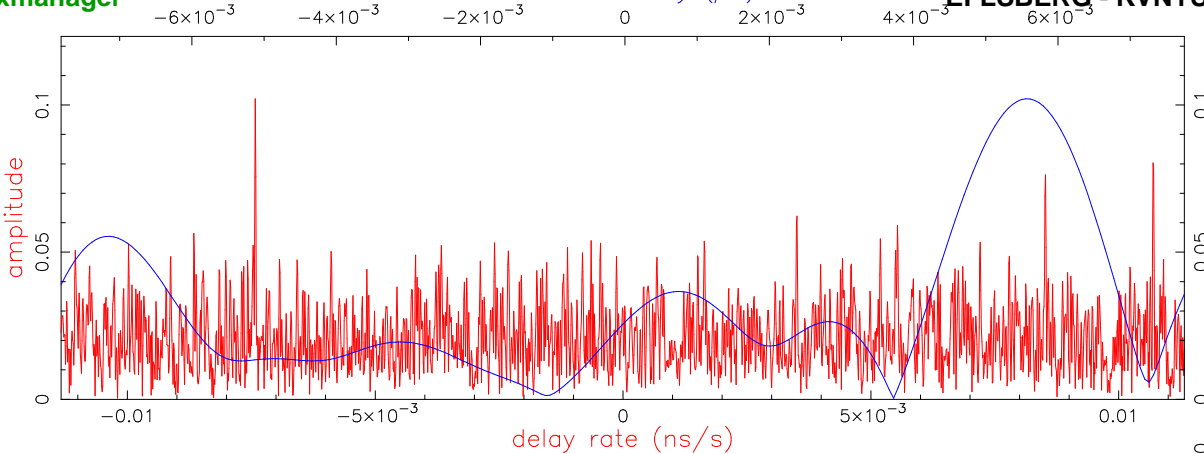
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, By

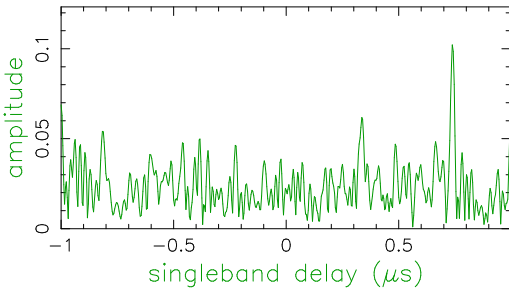
EFLSBERG - KVNYS, fgroup W, pol RL

multiband delay ( $\mu$ s)

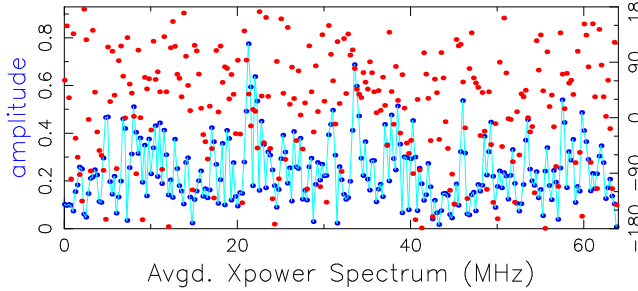


Fringe quality 0

SNR 5.8  
 Int time 419.817  
 Amp 0.123  
 Phase -143.4  
 PFD 8.9e-01  
 Delays (us)  
 SBD 0.739333  
 MBD 0.005589  
 Fringe rate (Hz)  
 -0.640129  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

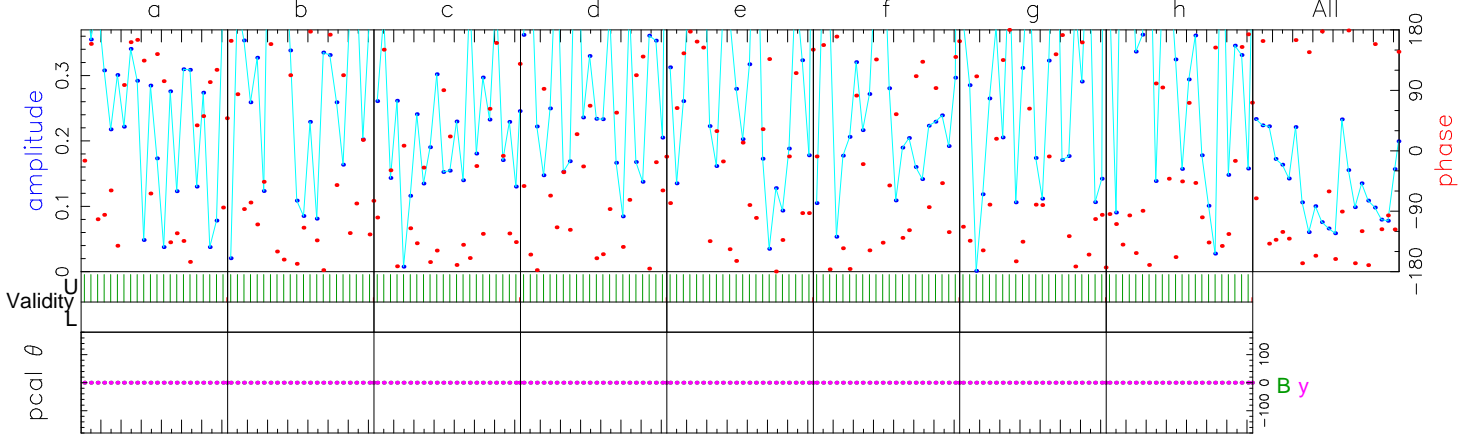


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012708  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-133.5	-148.4	-153.2	-85.4	-147.8	-174.7	-160.5	-125.1	Phase	-143.4
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	50.4	447.2	16.0	1.4	426.4	396.3	333.7	27.9	Sbd box	446.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.63758397156E+03	Apriori delay (usec)	6.63684400805E+03	Resid mbdelay (usec)	5.58851E-03	+/-	1.9E-04
Sband delay (usec)	6.63758334130E+03	Apriori clock (usec)	-2.2770000E+01	Resid sbdelay (usec)	7.39333E-01	+/-	1.5E-03
Phase delay (usec)	6.63684400342E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.62409E-06	+/-	6.4E-07
Delay rate (us/s)	1.40531693887E+00	Apriori rate (us/s)	1.40532437014E+00	Resid rate (us/s)	-7.43127E-06	+/-	2.7E-09
Total phase (deg)	163.7	Apriori accel (us/s/s)	-2.32497083982E-05	Resid phase (deg)	-143.4	+/-	19.9

ph/seg (deg)	42.4	Theor.	47.8	Amplitude	0.123 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.3		83.4	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	29.5		28.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	27.6		49.2	Inc. seg. avg.	0.122	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.119	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 88.7 el 58.2 pa -58.1 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -10805.984 -424.318 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/By..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/By.W.66.1W6A0V

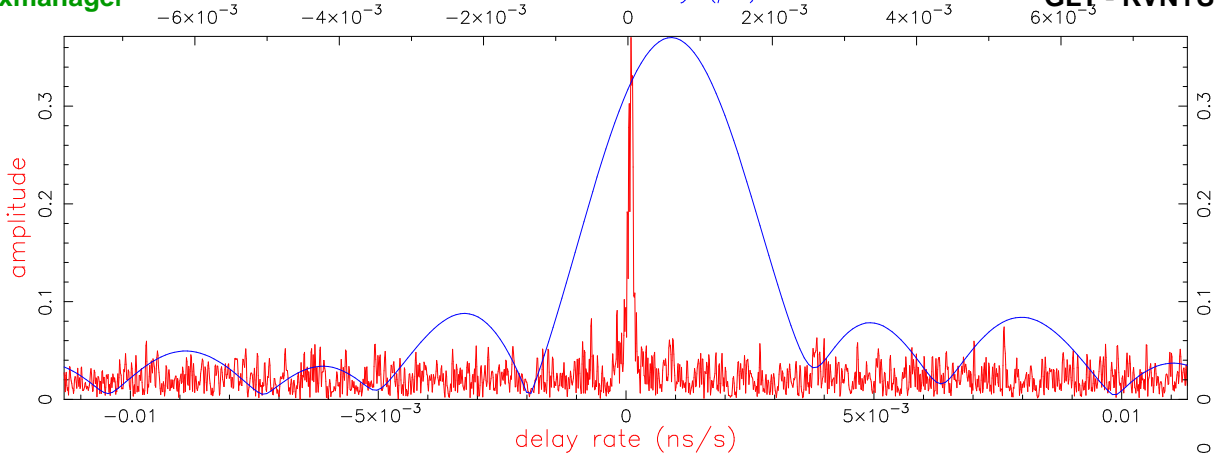
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, gy

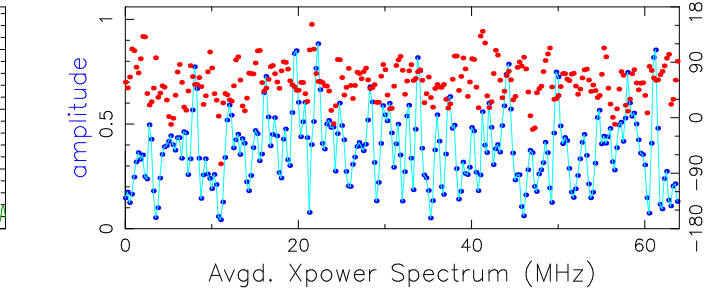
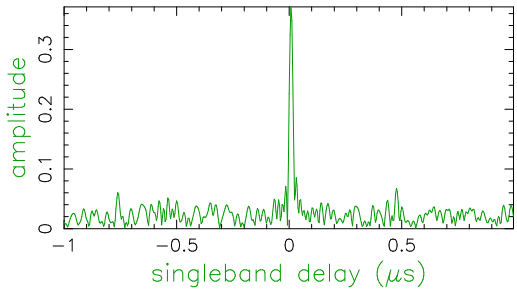
GLT - KVNYS, fgroup W, pol LL

multiband delay ( $\mu$ s)



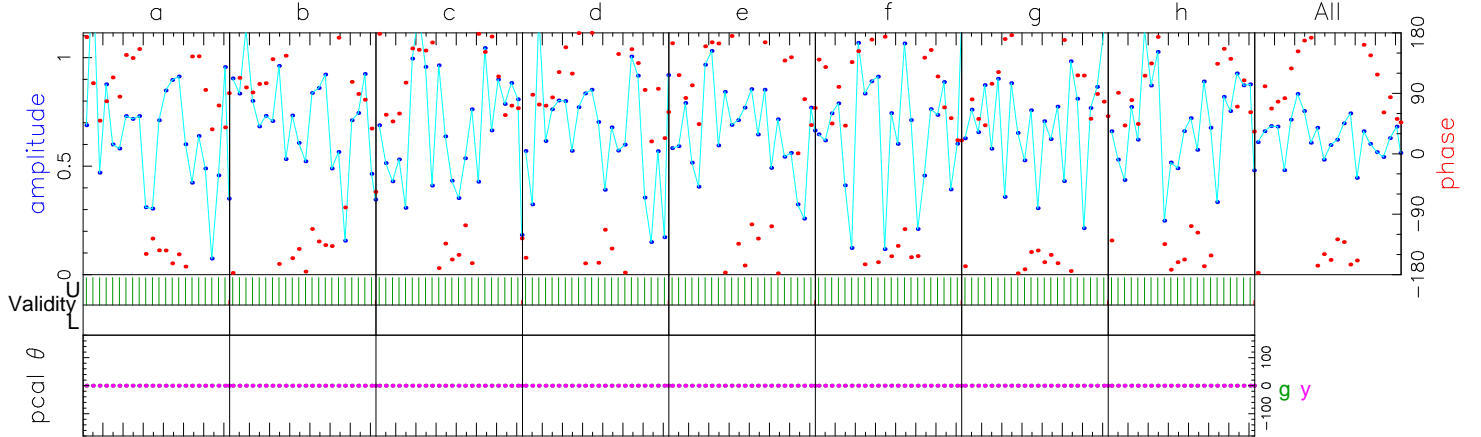
Fringe quality 9

SNR 20.8  
 Int time 419.828  
 Amp 0.371  
 Phase 148.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.008528  
 MBD 0.000603  
 Fringe rate (Hz) 0.008607  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012657  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	3.43872568923E+02		Apriori delay (usec)		3.43856341367E+02		Resid mbdelay (usec)		6.02555E-04	+/- 5.2E-05
Sband delay (usec)	3.43864869367E+02		Apriori clock (usec)		-2.7864265E-01		Resid sbdelay (usec)		8.52800E-03	+/- 4.1E-04
Phase delay (usec)	3.43856346156E+02		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		4.78878E-06	+/- 1.8E-07
Delay rate (us/s)	1.13182300703E+00		Apriori rate (us/s)		1.13182290711E+00		Resid rate (us/s)		9.99187E-08	+/- 7.3E-10
Total phase (deg)	236.8		Apriori accel (us/s/s)		2.54088927520E-05		Resid phase (deg)		148.5	+/- 5.5

	RMS	Theor.	Amplitude	0.371 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	57.0	13.2	Search (2048X32)	0.368	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	75.3	23.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	8.4	7.8	Inc. seg. avg.	0.620	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	7.5	13.6	Inc. frq. avg.	0.370	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 51.0 el 33.9 pa -14.2 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -8620.897 4277.753 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/gy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/gy.W.15.1W6A0V

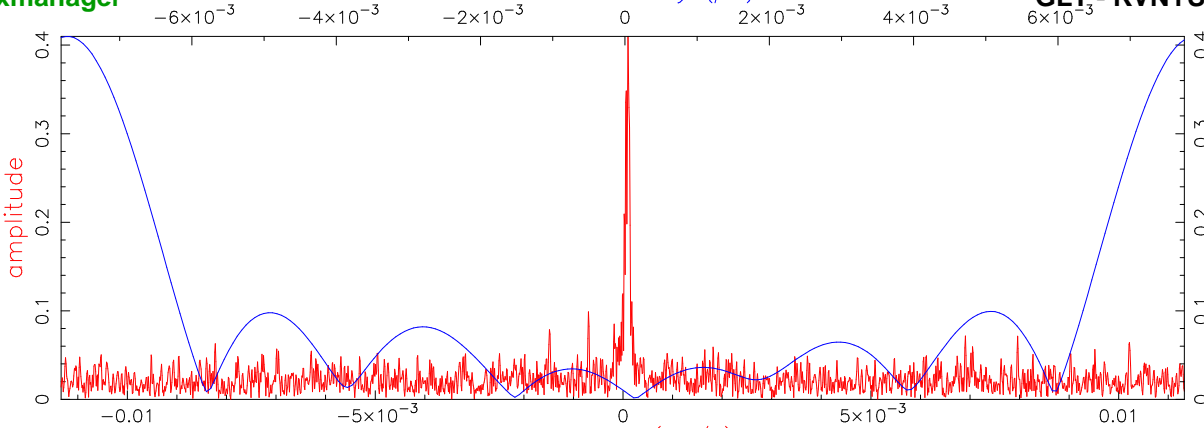
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, gy

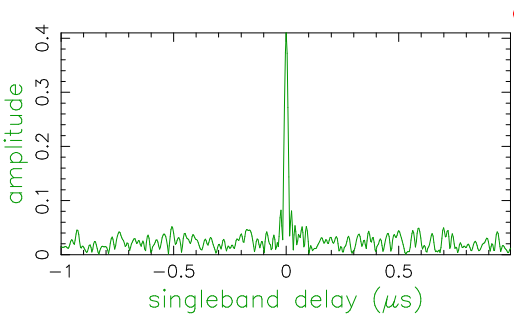
GLT - KVNYS, fgroup W, pol RR

multiband delay ( $\mu$ s)

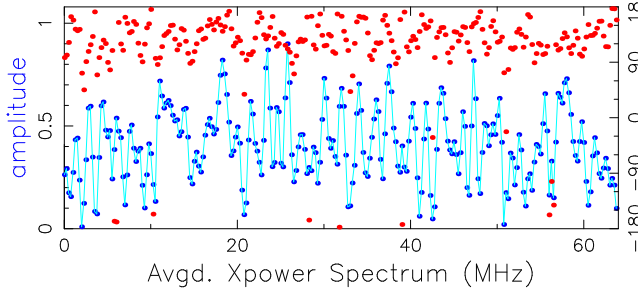


Fringe quality 9

SNR 23.0  
 Int time 419.825  
 Amp 0.410  
 Phase -140.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000033  
 MBD -0.007725  
 Fringe rate (Hz)  
 0.008609  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

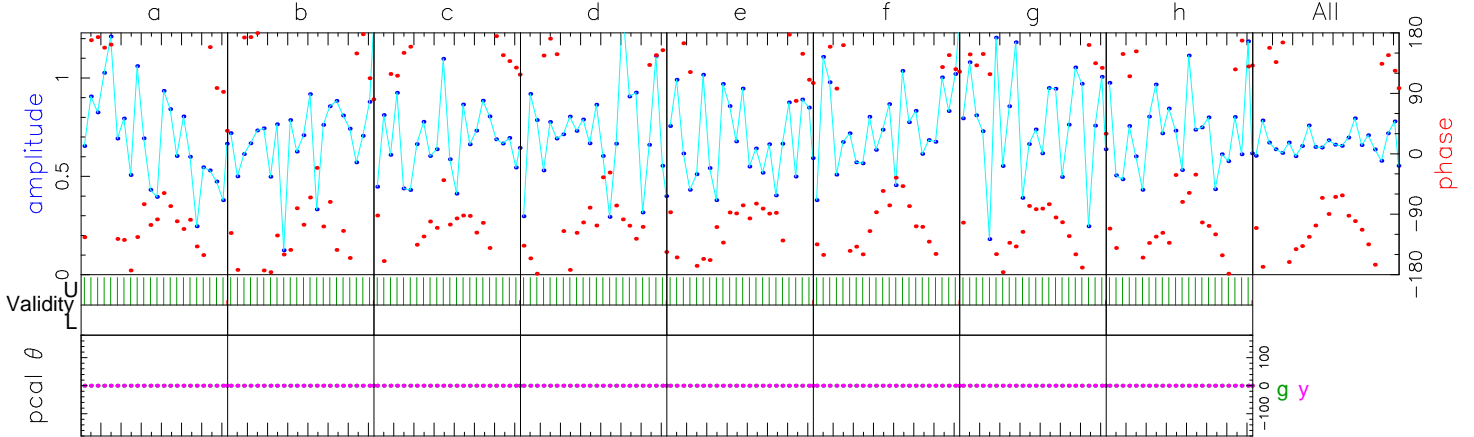


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012702  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-139.9	-142.9	-140.4	-138.8	-134.4	-139.3	-146.7	-137.5	Phase	-140.2
	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	Ampl.	0.4
	257.1	257.0	257.1	257.0	257.2	256.5	256.9	257.1	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		3.4384861642E+02				3.43856341367E+02			Resid mbdelay (usec)	-7.72523E-03 +/- 4.7E-05
Sband delay (usec)		3.43856308367E+02				-2.7864265E-01			Resid sbdelay (usec)	-3.30000E-05 +/- 3.8E-04
Phase delay (usec)		3.43856336847E+02				5.9999999E-08			Resid phdelay (usec)	-4.52061E-06 +/- 1.6E-07
Delay rate (us/s)		1.13182300705E+00				1.13182290711E+00			Resid rate (us/s)	9.99413E-08 +/- 6.6E-10
Total phase (deg)			-51.8			2.54088927520E-05			Resid phase (deg)	-140.2 +/- 5.0

ph/seg (deg) 55.0 12.0 Search (2048X32) 0.408 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 66.4 20.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 4.0 7.1 Inc. seg. avg. 0.661 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 9.3 12.3 Inc. frq. avg. 0.408 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 g: az 51.0 el 33.9 pa -14.2 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -8620.897 4277.753 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/gy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/gy.W.35.1W6A0V

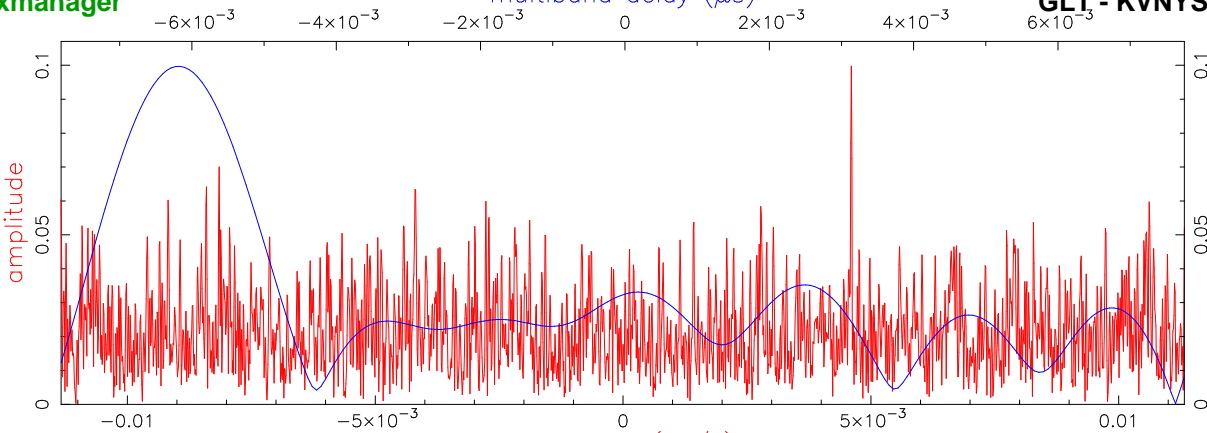
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, gy

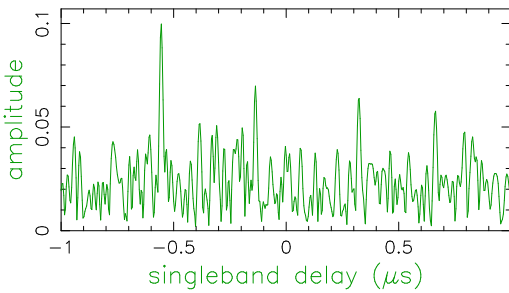
GLT - KVNYS, fgroup W, pol LR

multiband delay ( $\mu$ s)

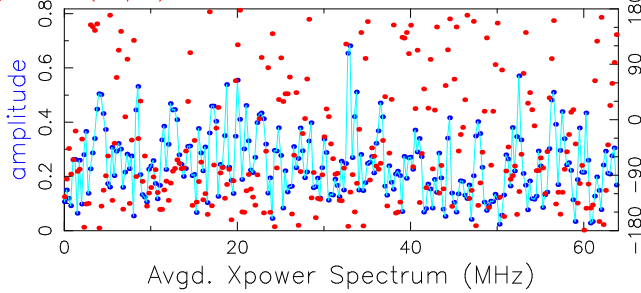


Fringe quality 0

SNR 5.6  
Int time 419.828  
Amp 0.107  
Phase 44.8  
PFD 9.9e-01  
Delays (us)  
SBD -0.555240  
MBD -0.006178  
Fringe rate (Hz)  
0.397652  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

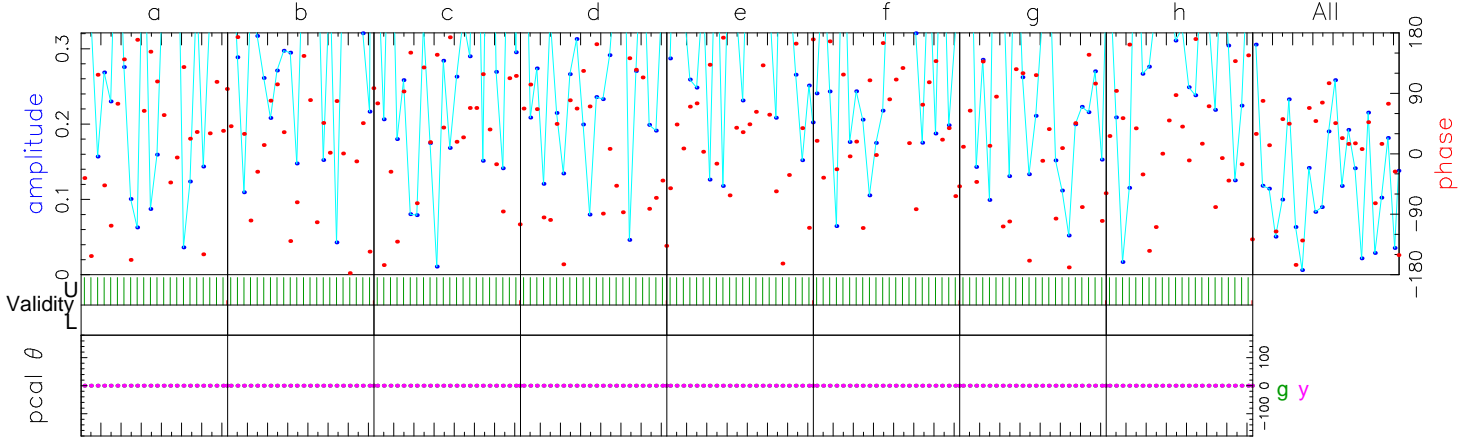


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012706  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	3.43303288035E+02		Apriori delay (usec)		3.43856341367E+02		Resid mbdelay (usec)		-6.17833E-03	+/- 1.9E-04
Sband delay (usec)	3.43301101117E+02		Apriori clock (usec)		-2.7864265E-01		Resid sbdelay (usec)		-5.55240E-01	+/- 1.5E-03
Phase delay (usec)	3.43856342813E+02		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		1.44528E-06	+/- 6.6E-07
Delay rate (us/s)	1.13182752345E+00		Apriori rate (us/s)		1.13182290711E+00		Resid rate (us/s)		4.61634E-06	+/- 2.7E-09
Total phase (deg)	133.2		Apriori accel (us/s/s)		2.54088927520E-05		Resid phase (deg)		44.8	+/- 20.5
ph/seg (deg)	RMS 72.0	Theor. 49.1	Amplitude 0.107 +/- 0.019		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	83.6	85.7	Search (2048X32) 0.097		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	19.9	29.0	Interp. 0.000		Bits/sample: 2x2		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
amp/frq (%)	35.2	50.5	Inc. seg. avg. 0.100		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
g: az 51.0 el 33.9 pa -14.2	y: az 299.6 el 33.7 pa 66.8		u, v (fr/asec) -8620.897 4277.753						simultaneous interpolator	

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/gy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/gy.W.56.1W6A0V

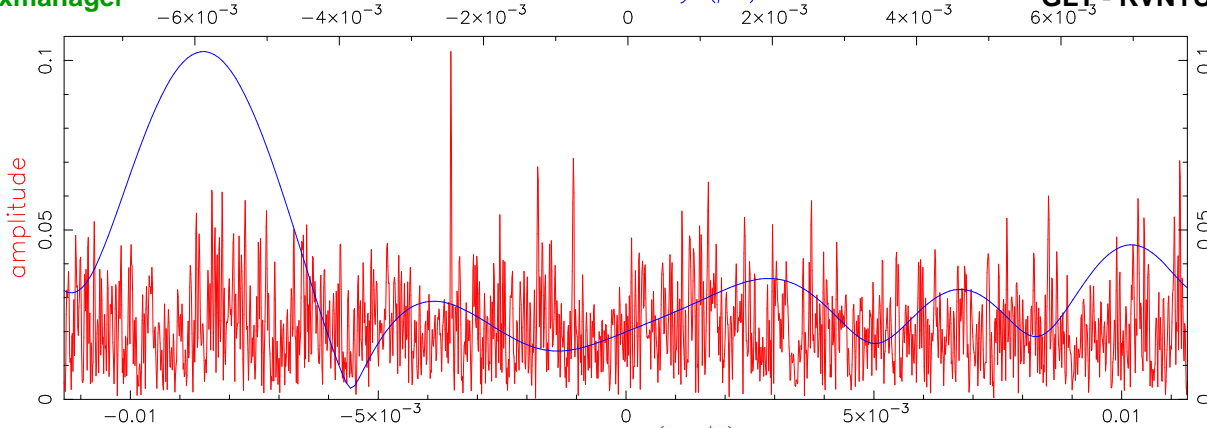
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

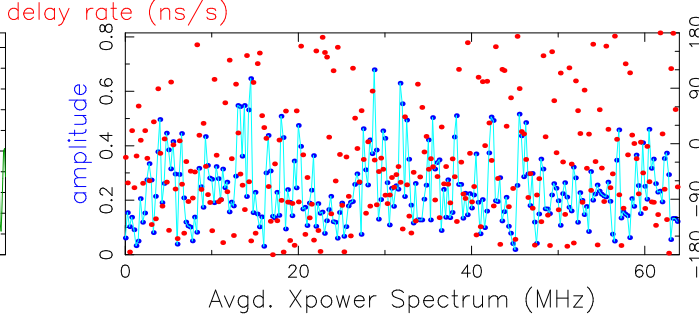
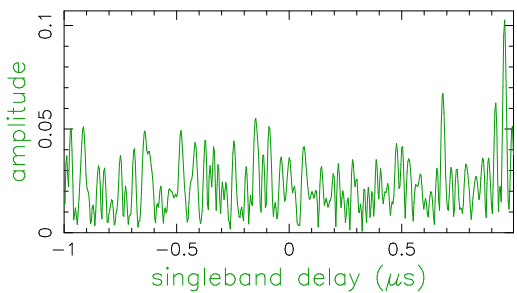
3C84.1W6A0V, No0212, gy

GLT - KVNYS, fgroup W, pol RL

multiband delay ( $\mu$ s)

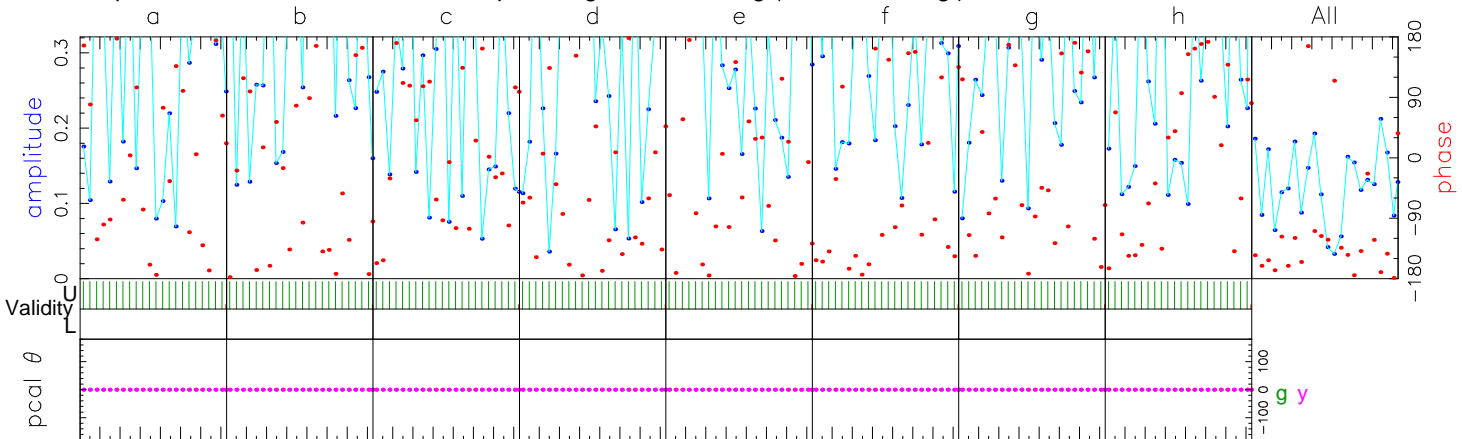


Fringe quality 0  
 SNR 5.8  
 Int time 419.825  
 Amp 0.107  
 Phase -144.1  
 PFD 8.7e-01  
 Delays (us)  
 SBD 0.956467  
 MBD -0.005879  
 Fringe rate (Hz)  
 -0.305121  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012710  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-137.3	-176.1	-113.8	-118.6	-110.6	-156.3	-131.0	-176.2	Phase	-144.1
	0.1	0.2	0.0	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	341.4	503.2	176.4	126.2	363.2	501.9	496.4	370.8	Sbd box	501.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.44819212664E+02		Apriori delay (usec)		3.43856341367E+02		Resid mbdelay (usec)		-5.87870E-03	+/- 1.9E-04
Sband delay (usec)	3.44812808617E+02		Apriori clock (usec)		-2.7864265E-01		Resid sbdelay (usec)		9.56467E-01	+/- 1.5E-03
Phase delay (usec)	3.43856336720E+02		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		-4.64773E-06	+/- 6.4E-07
Delay rate (us/s)	1.13181936496E+00		Apriori rate (us/s)		1.13182290711E+00		Resid rate (us/s)		-3.54215E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.54088927520E-05		Resid phase (deg)		-144.1	+/- 19.9

ph/seg (deg) 43.0 47.7 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 53.0 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 29.2 28.1 Inc. seg. avg. 0.097 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 46.2 49.1 Inc. frq. avg. 0.104 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 g: az 51.0 el 33.9 pa -14.2 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) -8620.897 4277.753 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/gy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/gy.W.74.1W6A0V



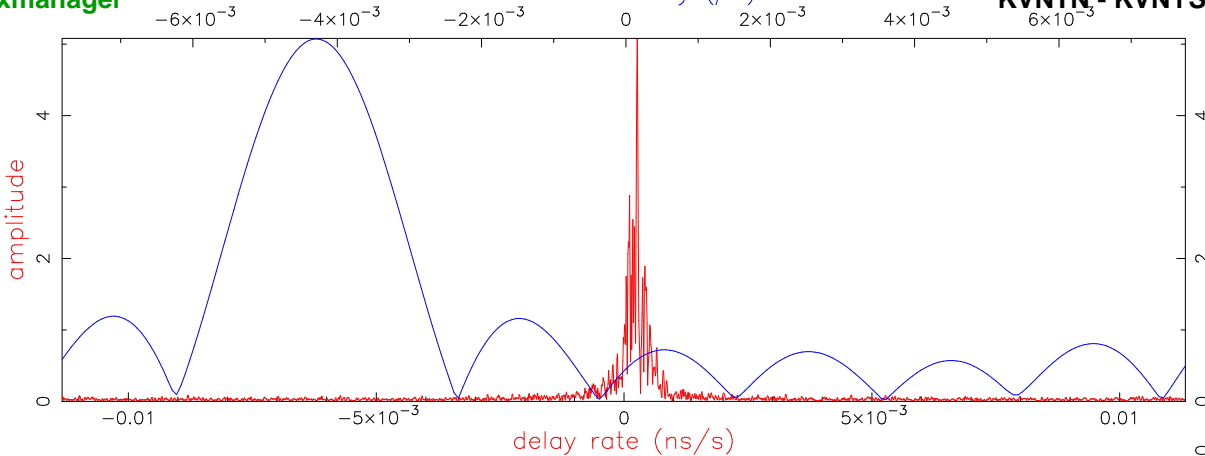
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, ty

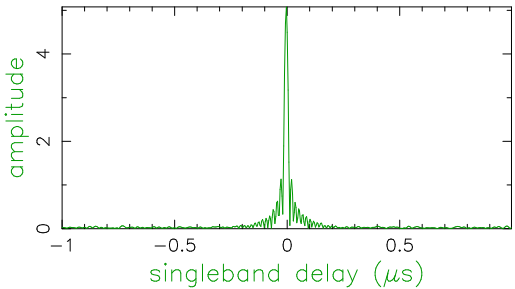
KVNTN - KVNYS, fgroup W, pol RR

multiband delay ( $\mu$ s)

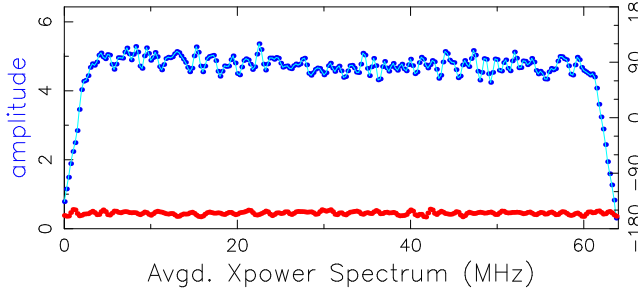


Fringe quality 5

SNR 284.6  
Int time 419.840  
Amp 5.080  
Phase -155.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.004343  
MBD -0.004291  
Fringe rate (Hz)  
0.022927  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

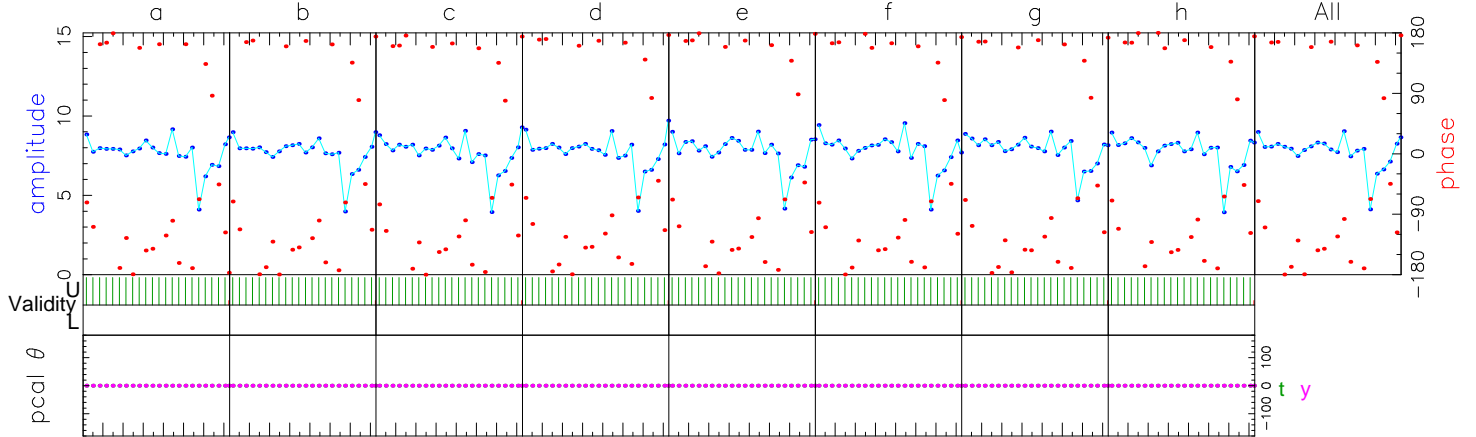


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012718  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.86506403173E+02	-5.86506455279E+02	-5.86502116788E+02	-5.8650211779E+02	-5.8650211779E+02	-5.8650211779E+02	-5.8650211779E+02	-5.8650211779E+02		
Sband delay (usec)	-5.86506455279E+02	-5.86506455279E+02	-5.86502116788E+02	-5.8650211779E+02	-5.8650211779E+02	-5.8650211779E+02	-5.8650211779E+02	-5.8650211779E+02		
Phase delay (usec)	-5.86502116788E+02	-5.86502116788E+02	-5.86502116788E+02	-5.86502116788E+02	-5.86502116788E+02	-5.86502116788E+02	-5.86502116788E+02	-5.86502116788E+02		
Delay rate (us/s)	-4.67240931439E-02	-4.67240931439E-02	-4.67240931439E-02	-4.67240931439E-02	-4.67240931439E-02	-4.67240931439E-02	-4.67240931439E-02	-4.67240931439E-02		
Total phase (deg)			-122.5							
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)										
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) 54.5 1.0 Search (2048X32) 5.038 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 55.6 1.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 2.2 0.6 Inc. seg. avg. 7.724 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 1.5 1.0 Inc. frq. avg. 5.077 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
t: az 301.8 el 31.9 pa 71.8 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 355.750 -506.506 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/ty..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/ty.W.110.1W6A0V

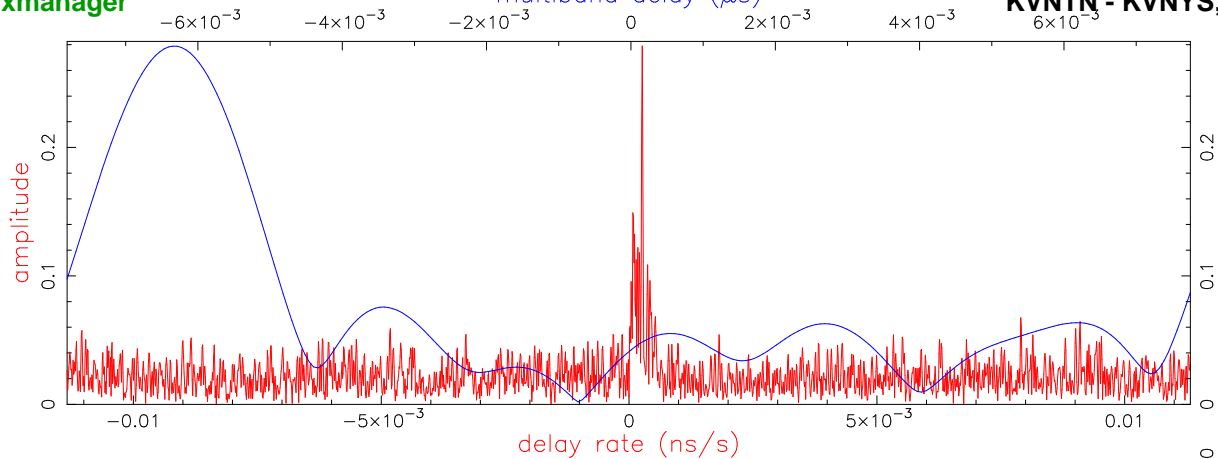
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, ty

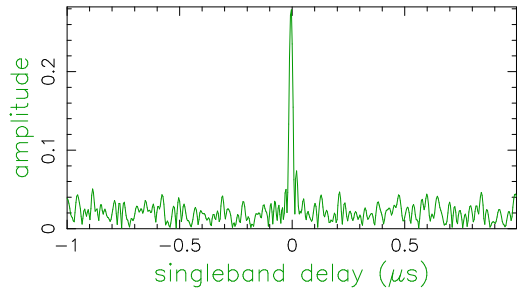
KVNTN - KVNYS, fgroup W, pol LR

multiband delay ( $\mu$ s)

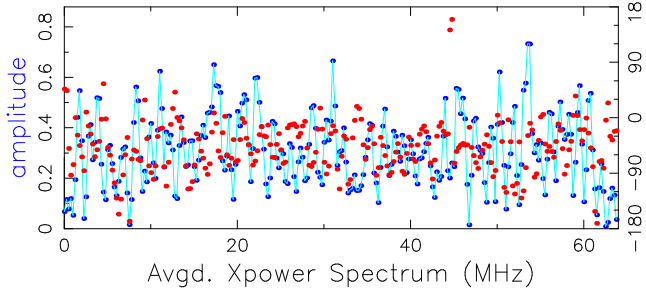


Fringe quality 9

SNR 15.8  
 Int time 419.840  
 Amp 0.283  
 Phase -36.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005343  
 MBD -0.006328  
 Fringe rate (Hz)  
 0.022962  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

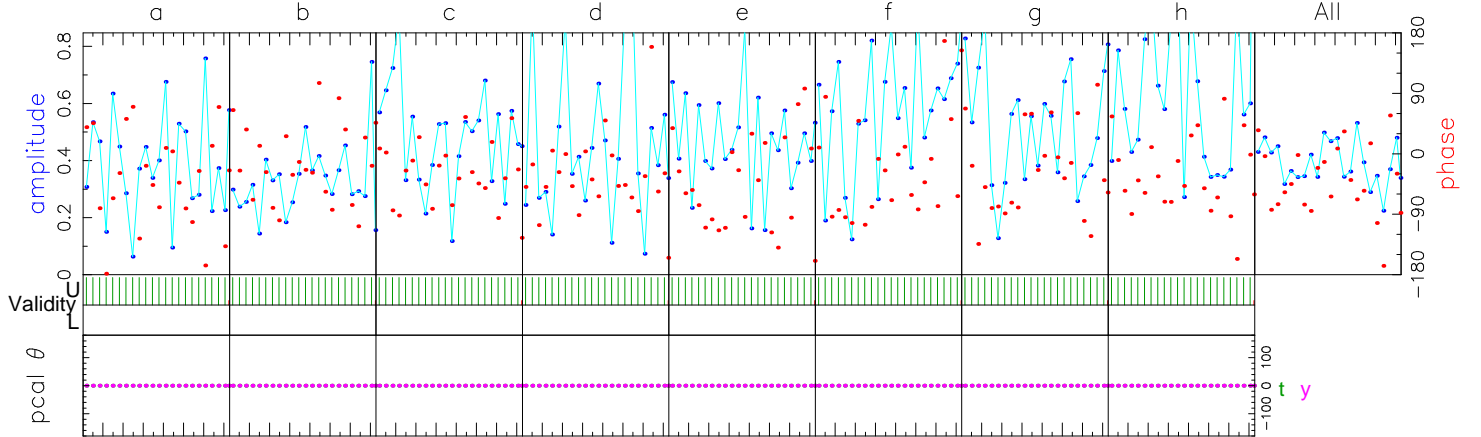


delay rate (ns/s)



Exp. c211a  
 Yr:day # 16383  
 Start 2021:286:231157  
 Stop 2021:287:012723  
 FRT 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
t	1000	1000	1000	1000	1000	1000	1000	1000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
t	1000	1000	1000	1000	1000	1000	1000	1000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-5.86508439798E+02				-5.86502111779E+02				Resid mbdelay (usec)	-6.32802E-03	+/- 6.9E-05
Sband delay (usec)	-5.86507454779E+02				-9.7686195E-01				Resid sbdelay (usec)	-5.34300E-03	+/- 5.4E-04
Phase delay (usec)	-5.86502112951E+02				-2.0000000E-07				Resid phdelay (usec)	-1.17192E-06	+/- 2.3E-07
Delay rate (us/s)	-4.67240927464E-02				-4.67243593079E-02				Resid rate (us/s)	2.66561E-07	+/- 9.6E-10
Total phase (deg)			-3.5		-1.43491404083E-06				Resid phase (deg)	-36.3	+/- 7.2
ph/seg (deg)	51.4	17.4			0.277				PCal mode: MANUAL, MANUAL		
amp/seg (%)	48.0	30.3			0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)		
ph/frq (deg)	13.0	10.2			0.378				Bits/sample: 2x2		
amp/frq (%)	27.0	17.9			0.279				SampCntNorm: enabled		
									Sample rate(MISamp/s): 128		
									Data rate(Mb/s): 2048		
									nlags: 256		
									t_cohere infinite		
t: az 301.8 el 31.9 pa 71.8									ion window (TEC)	0.00	0.00
Control file: cf_1234_gmva									simultaneous interpolator		

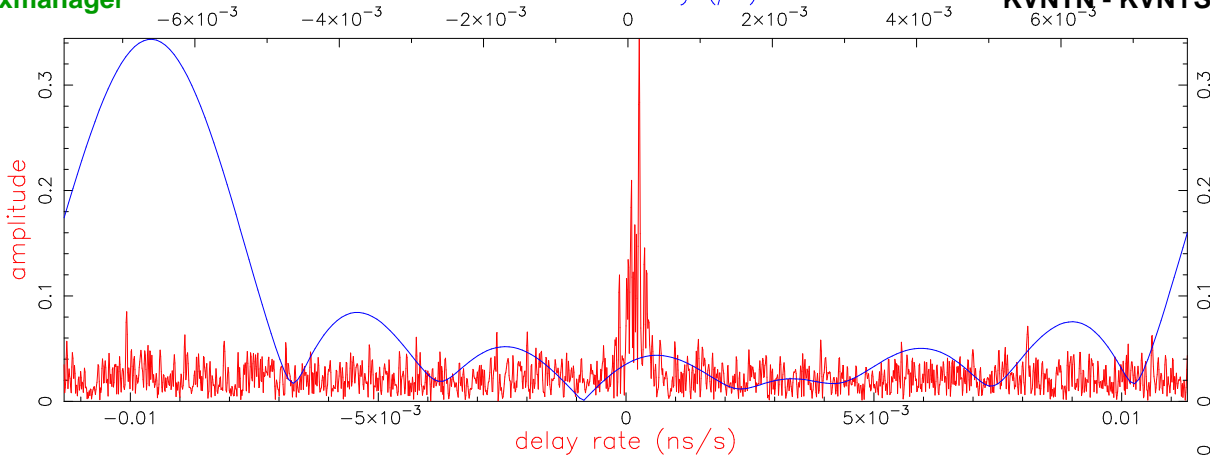
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, ty

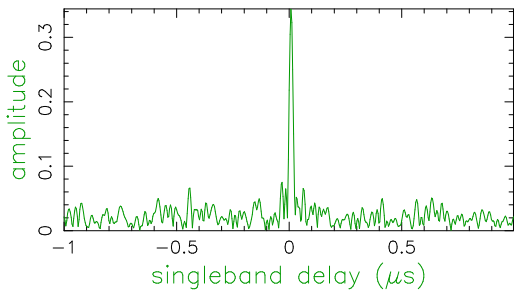
KVNTN - KVNYS, fgroup W, pol RL

multiband delay ( $\mu$ s)

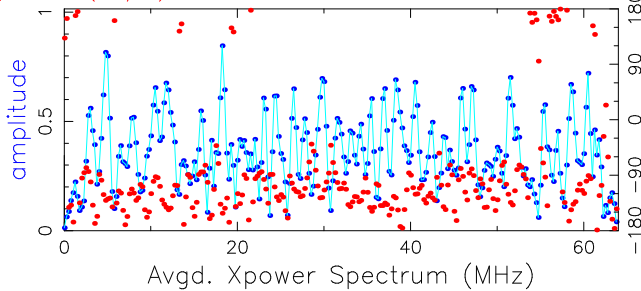


Fringe quality 9

SNR 19.3  
 Int time 419.840  
 Amp 0.344  
 Phase 50.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.008409  
 MBD -0.006613  
 Fringe rate (Hz) 0.022952  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

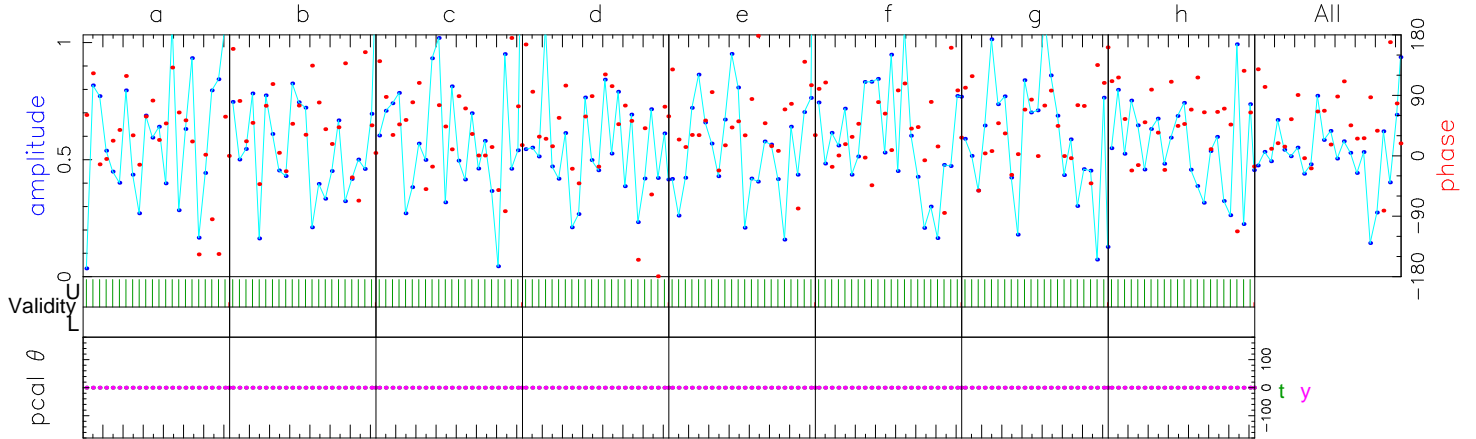


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012727  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

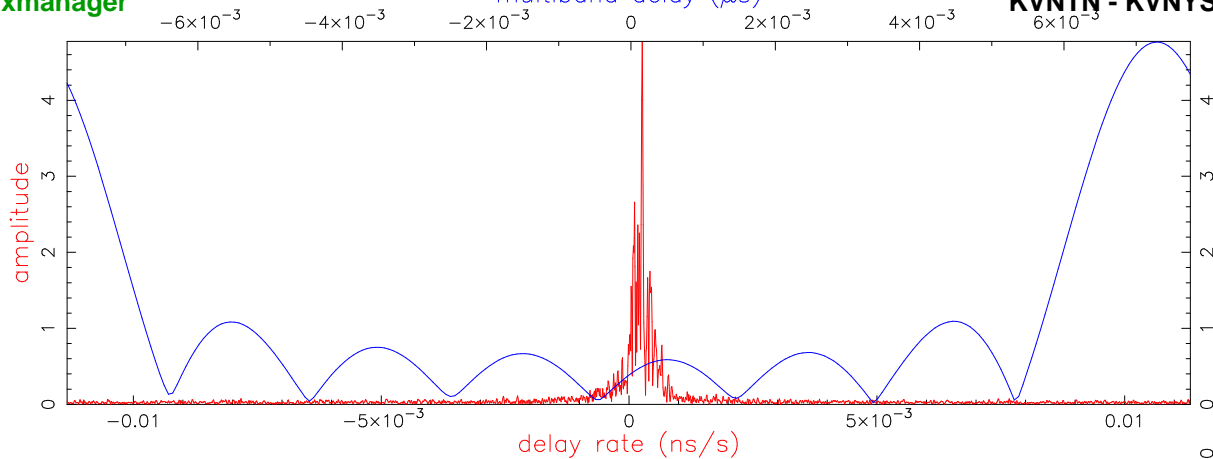
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.86493099673E+02									
Sband delay (usec)	-5.86493703029E+02									
Phase delay (usec)	-5.86502110151E+02									
Delay rate (us/s)	-4.67240928541E-02									
Total phase (deg)			-276.6							
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)									50.5	+/- 5.9
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										
nlags: 256										
t_cohere infinite										
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

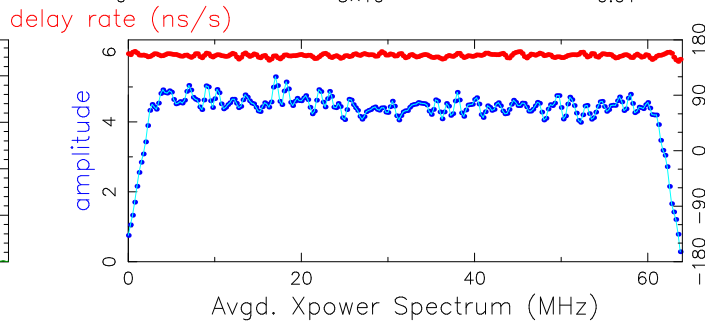
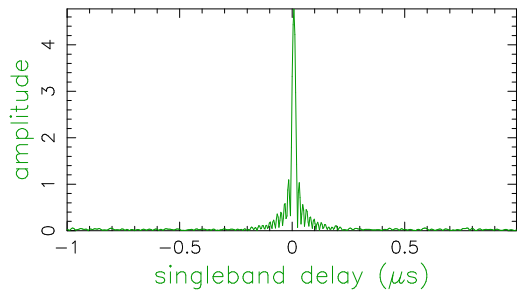
ph/seg (deg) 53.7 14.2 Search (2048X32) 0.337 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 64.7 24.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.6 8.4 Inc. seg. avg. 0.506 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 10.5 14.7 Inc. frq. avg. 0.342 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 t: az 301.8 el 31.9 pa 71.8 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 355.750 -506.506 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/c211a/v2/1234/No0212/ty..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/ty.W.149.1W6A0V simultaneous interpolator

multiband delay ( $\mu$ s)



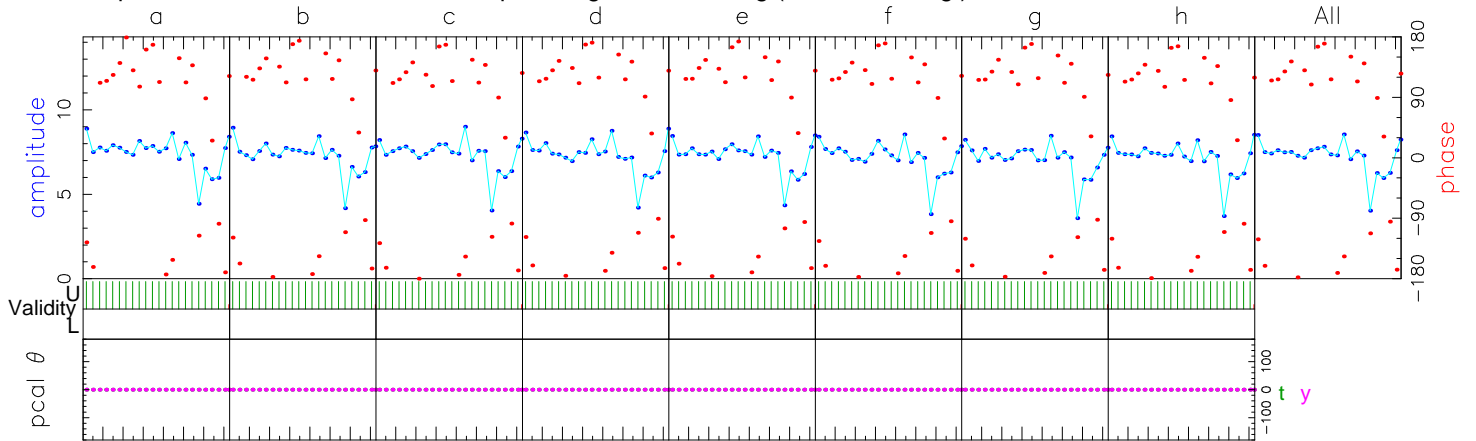
Fringe quality 5

SNR 267.5  
Int time 419.840  
Amp 4.775  
Phase 155.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.007325  
MBD 0.007287  
Fringe rate (Hz)  
0.022911  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012714  
2021:252:122852  
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



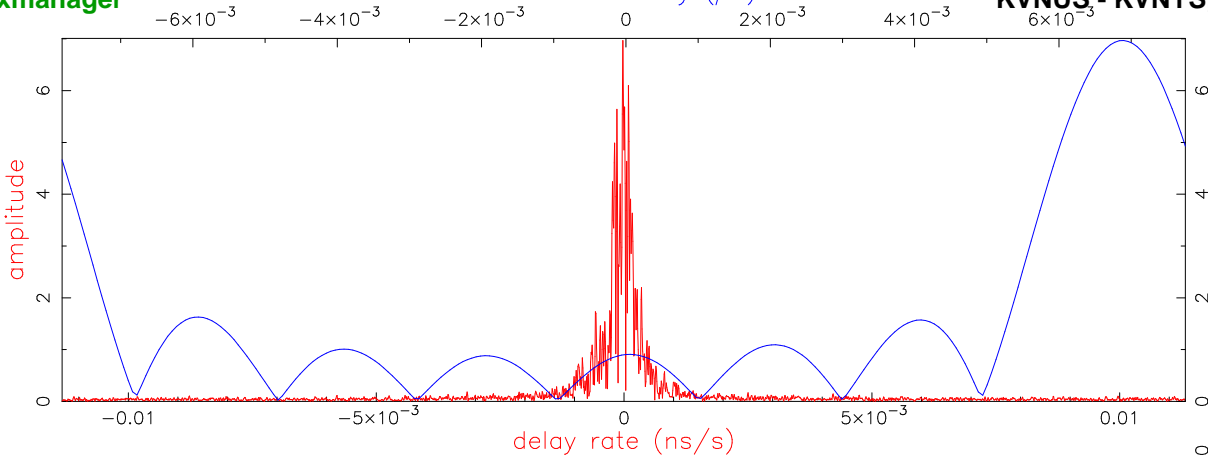
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.86494825142E+02								7.28664E-03	+/- 4.1E-06
Sband delay (usec)	-5.86494786779E+02								7.32500E-03	+/- 3.2E-05
Phase delay (usec)	-5.86502106776E+02								5.00273E-06	+/- 1.4E-08
Delay rate (us/s)	-4.67240933302E-02								2.65978E-07	+/- 5.7E-11
Total phase (deg)			-172.0						155.1	+/- 0.4
	RMS	Theor.	Amplitude	4.775 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	54.8	1.0	Search (2048X32)	4.722					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	54.9	1.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	2.5	0.6	Inc. seg. avg.	7.231					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	2.0	1.1	Inc. frq. avg.	4.771					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

t: az 301.8 el 31.9 pa 71.8 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 355.750 -506.506 simultaneous interpolator

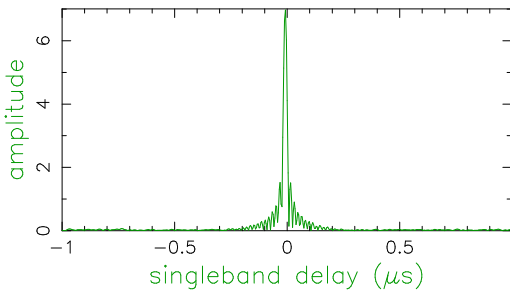
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/ty..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/ty.W.91.1W6A0V

multiband delay ( $\mu$ s)

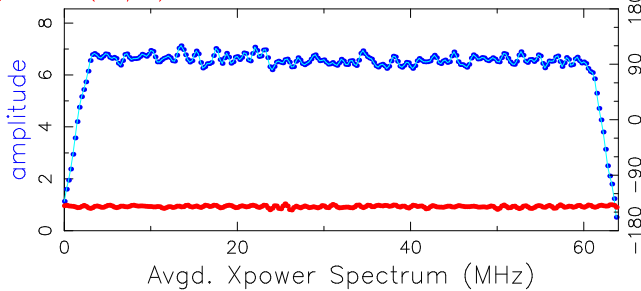
Fringe quality 5



SNR 392.7  
Int time 419.840  
Amp 7.009  
Phase 38.9  
PFD 0.0e+00  
Delays (us)  
SBD -0.008770  
MBD 0.006880  
Fringe rate (Hz)  
-0.002179  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

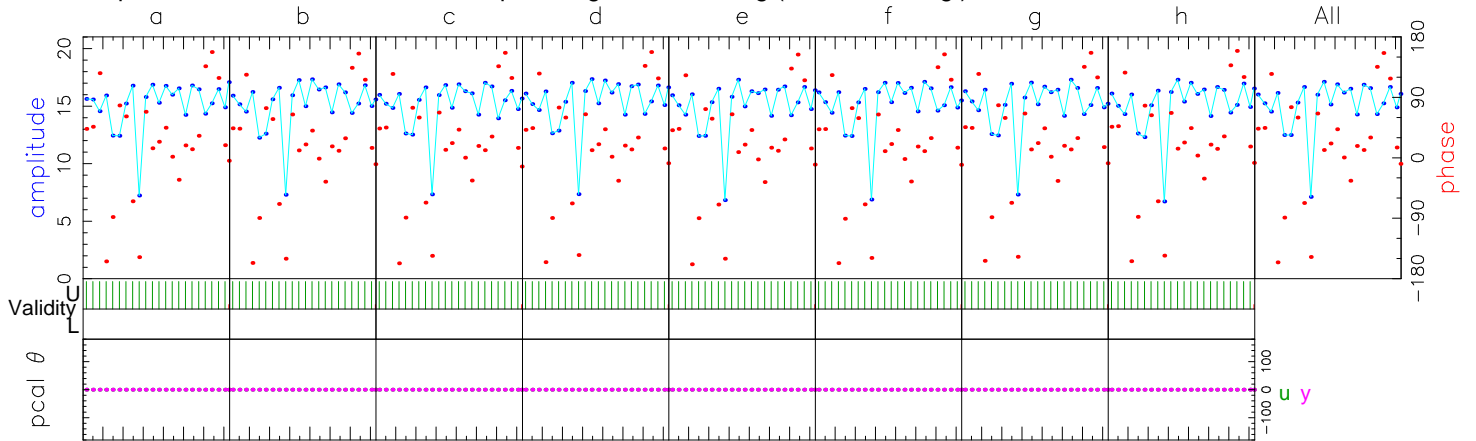


delay rate (ns/s)



Exp. c211a  
Yr:day 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012717  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

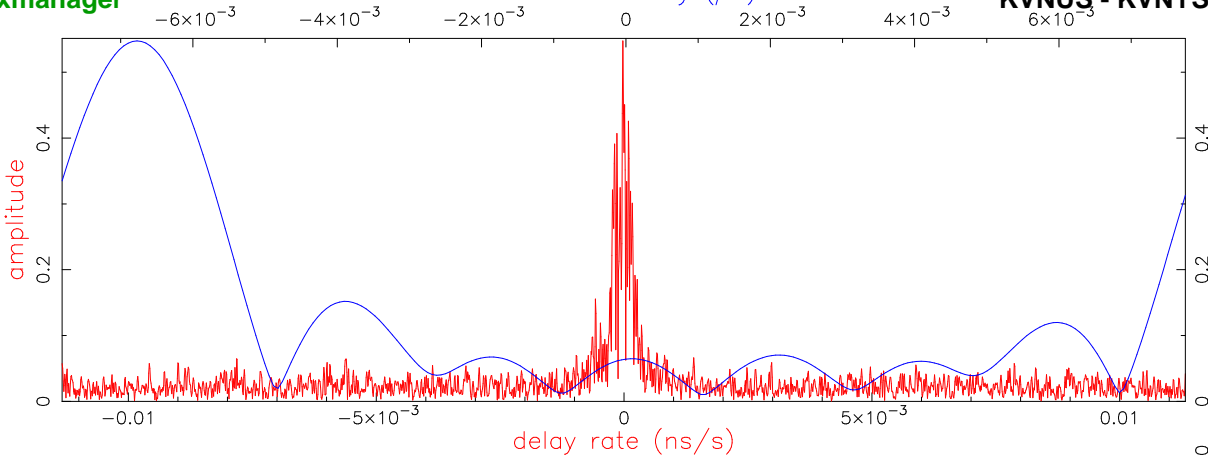
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



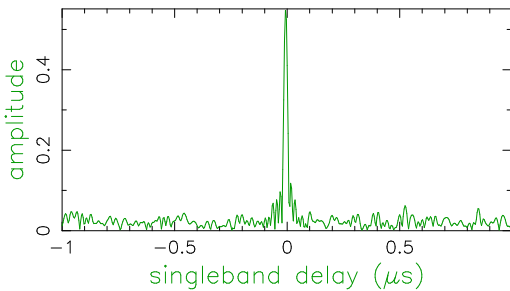
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
u	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.16586736901E+02								6.88011E-03	+/- 2.8E-06
Sband delay (usec)	-8.16586762007E+02								-8.77000E-03	+/- 2.2E-05
Phase delay (usec)	-8.16577990753E+02								1.25349E-06	+/- 9.4E-09
Delay rate (us/s)	-3.18025243774E-02								-2.52948E-08	+/- 3.9E-11
Total phase (deg)			-44.4						38.9	+/- 0.3
				Apriori delay (usec)	-8.16577992007E+02				Resid mbdelay (usec)	
				Apriori clock (usec)	1.3812653E+01				Resid sbdelay (usec)	
				Apriori clockrate (us/s)	1.1270000E-06				Resid phdelay (usec)	
				Apriori rate (us/s)	-3.18024990826E-02				Resid rate (us/s)	
				Apriori accel (us/s/s)	2.29644046101E-06				Resid phase (deg)	
ph/seg (deg)	77.9	0.7		Search (2048X32)	6.831				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	119.8	1.2		Interp.	0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	1.6	0.4		Inc. seg. avg.	15.128				Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	0.8	0.7		Inc. frq. avg.	6.971				Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
									Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite
u: az 301.4 el 31.1 pa 67.7				y: az 299.6 el 33.7 pa 66.8						
				u, v (fr/asec) 248.287 -30.198						
Control file: cf_1234_gmva				Input file: /Exps/c211a/v2/1234/No0212/uy..1W6A0V						simultaneous interpolator
				Output file: /Exps/c211a/v2/1234/No0212/uy.W.103.1W6A0V						

multiband delay ( $\mu$ s)

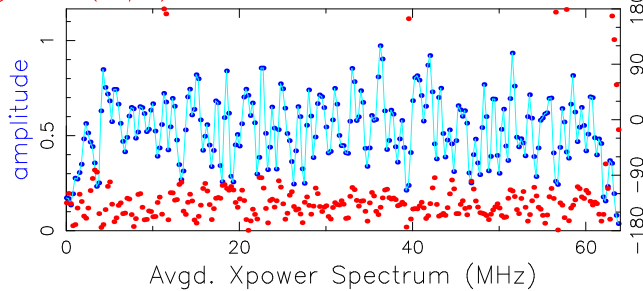
Fringe quality 7



SNR 30.9  
Int time 419.840  
Amp 0.551  
Phase -138.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.006755  
MBD -0.006770  
Fringe rate (Hz)  
-0.002224  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

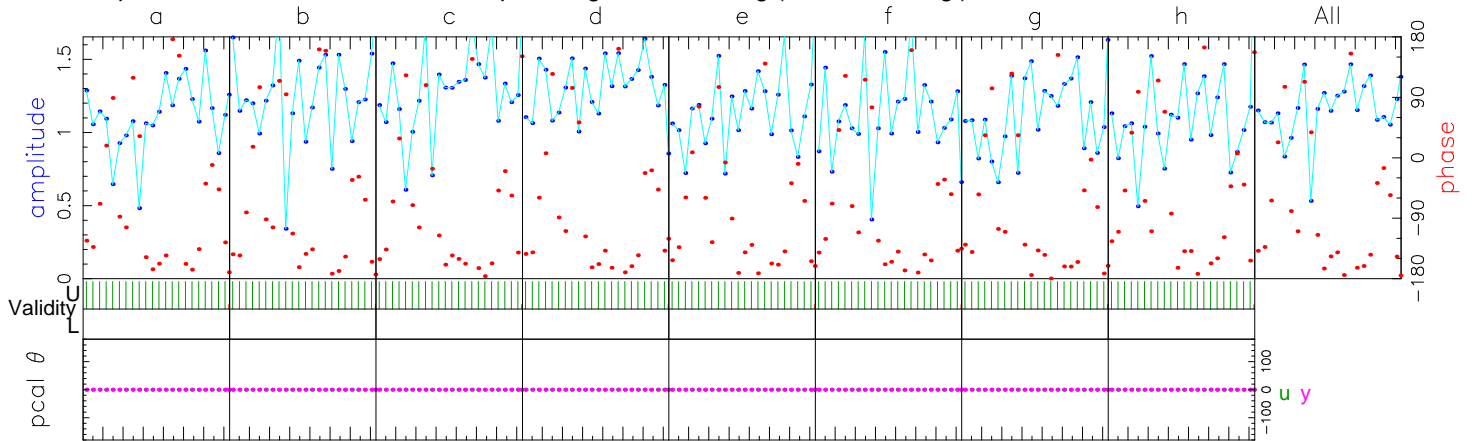


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012721  
2021:252:122852  
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



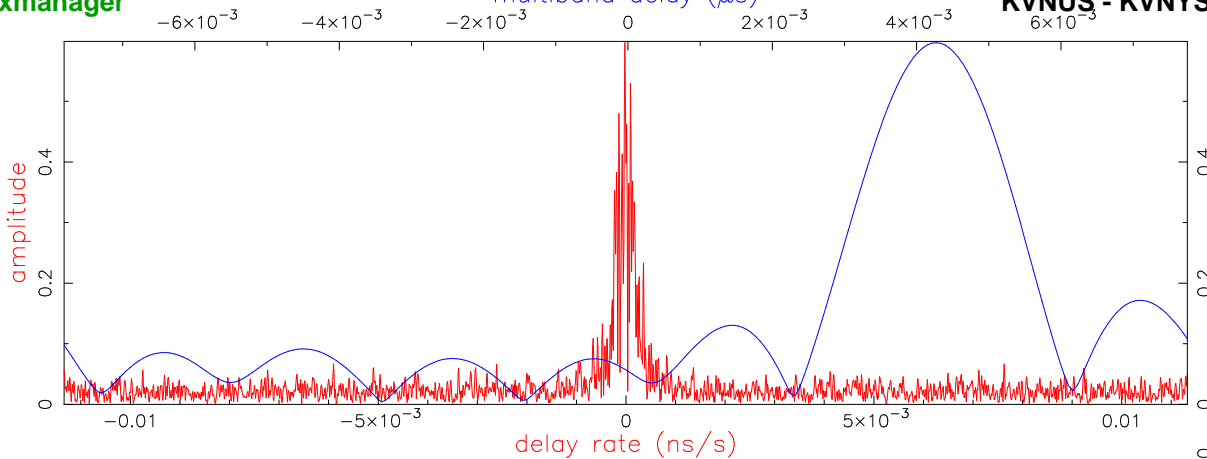
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-133.9	-145.1	-138.0	-132.1	-134.5	-143.9	-149.7	-128.4	Phase	-138.6
	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.5	Ampl.	0.5
	254.9	255.6	255.0	255.2	255.7	255.2	255.2	255.5	Sbd box	255.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.16584761963E+02			Apriori delay (usec)	-8.16577992007E+02			Resid mbdelay (usec)	-6.76996E-03	+/- 3.5E-05
Sband delay (usec)	-8.16584747007E+02			Apriori clock (usec)	1.3812653E+01			Resid sbdelay (usec)	-6.75500E-03	+/- 2.8E-04
Phase delay (usec)	-8.16577996474E+02			Apriori clockrate (us/s)	1.1270000E-06			Resid phdelay (usec)	-4.46788E-06	+/- 1.2E-07
Delay rate (us/s)	-3.18025249046E-02			Apriori rate (us/s)	-3.18024990826E-02			Resid rate (us/s)	-2.58220E-08	+/- 4.9E-10
Total phase (deg)		-221.9		Apriori accel (us/s/s)	2.29644046101E-06			Resid phase (deg)	-138.6	+/- 3.7

	RMS	Theor.	Amplitude	0.551 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	77.5	8.9	Search (2048X32)	0.533	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	114.7	15.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	8.0	5.2	Inc. seg. avg.	1.138	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	8.2	9.2	Inc. frq. avg.	0.549	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	

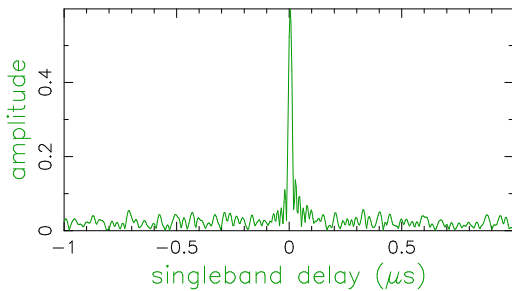
u: az 301.4 el 31.1 pa 67.7 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 248.287 -30.198 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/uy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/uy.W.121.1W6A0V

multiband delay ( $\mu$ s)

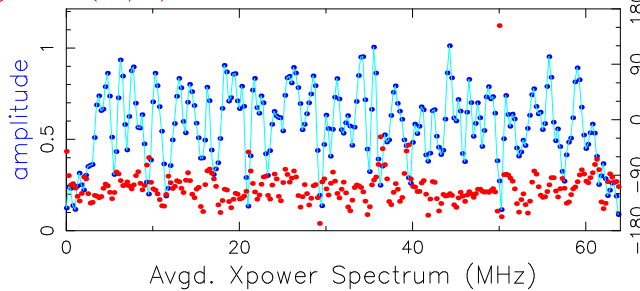
Fringe quality 7



SNR 33.6  
Int time 419.840  
Amp 0.599  
Phase -107.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.004669  
MBD 0.004275  
Fringe rate (Hz)  
-0.002202  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

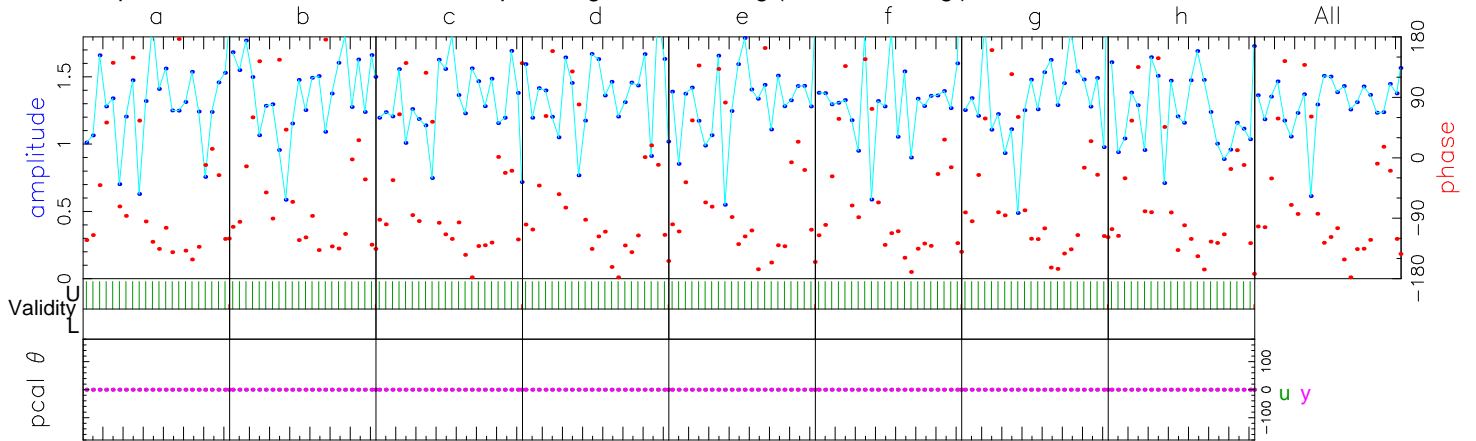


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012725  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-116.9	-96.9	-104.5	-106.1	-111.7	-110.6	-103.6	-110.1	Phase	-107.4
	0.6	0.6	0.7	0.6	0.5	0.6	0.6	0.6	Ampl.	0.6
	258.4	258.0	258.5	258.2	258.1	258.1	258.0	258.2	Sbd box	258.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.16573717307E+02		Apriori delay (usec)		-8.16577992007E+02		Resid mbdelay (usec)		4.27470E-03	+/- 3.2E-05
Sband delay (usec)	-8.16573323007E+02		Apriori clock (usec)		1.3812653E+01		Resid sbdelay (usec)		4.66900E-03	+/- 2.6E-04
Phase delay (usec)	-8.16577995468E+02		Apriori clockrate (us/s)		1.1270000E-06		Resid phdelay (usec)		-3.46176E-06	+/- 1.1E-07
Delay rate (us/s)	-3.18025246438E-02		Apriori rate (us/s)		-3.18024990826E-02		Resid rate (us/s)		-2.55612E-08	+/- 4.5E-10
Total phase (deg)			Apriori accel (us/s/s)		2.29644046101E-06		Resid phase (deg)		-107.4	+/- 3.4

ph/seg (deg) 77.1 8.2 Search (2048X32) 0.581 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 121.4 14.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 6.6 4.8 Inc. seg. avg. 1.288 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 7.2 8.4 Inc. frq. avg. 0.598 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
u: az 301.4 el 31.1 pa 67.7 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 248.287 -30.198 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/uy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/uy.W.143.1W6A0V

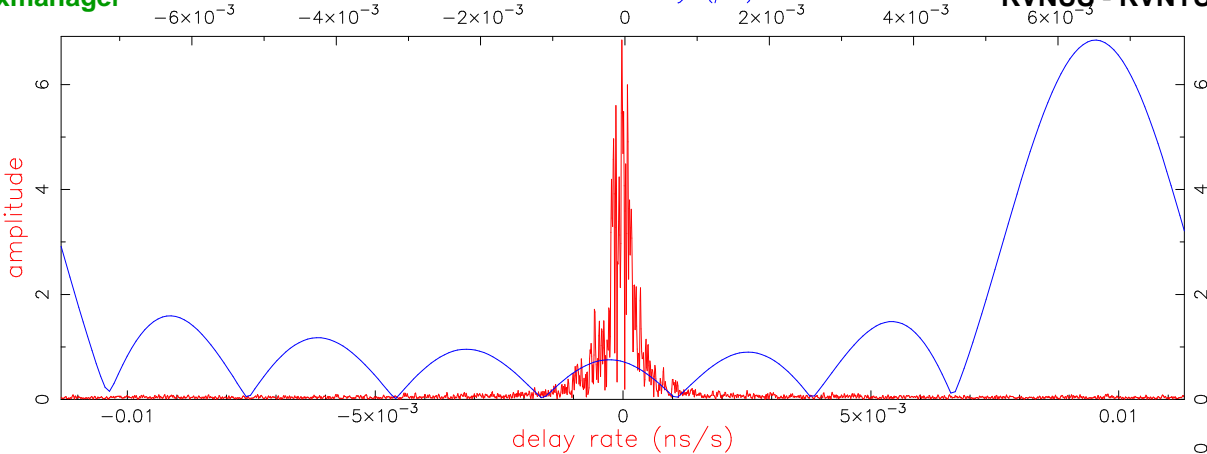
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, uy

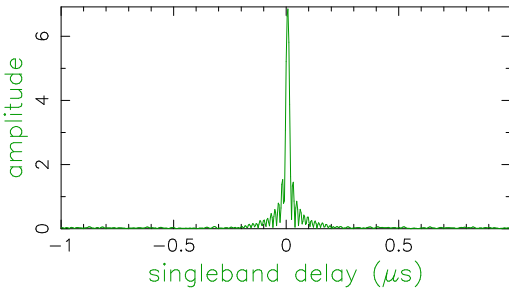
KVNU\$ - KVNYS, fgroup W, pol LL

multiband delay ( $\mu$ s)

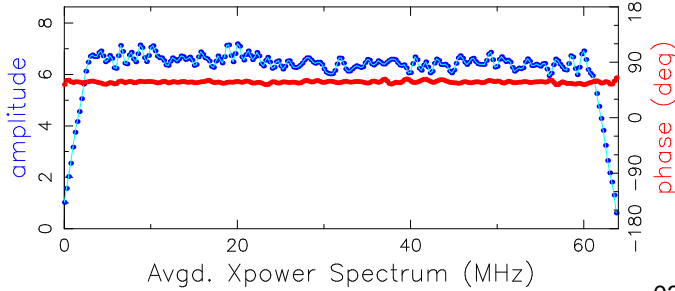


Fringe quality 5

SNR 387.7  
 Int time 419.840  
 Amp 6.919  
 Phase 58.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.006539  
 MBD 0.006520  
 Fringe rate (Hz)  
 -0.002177  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

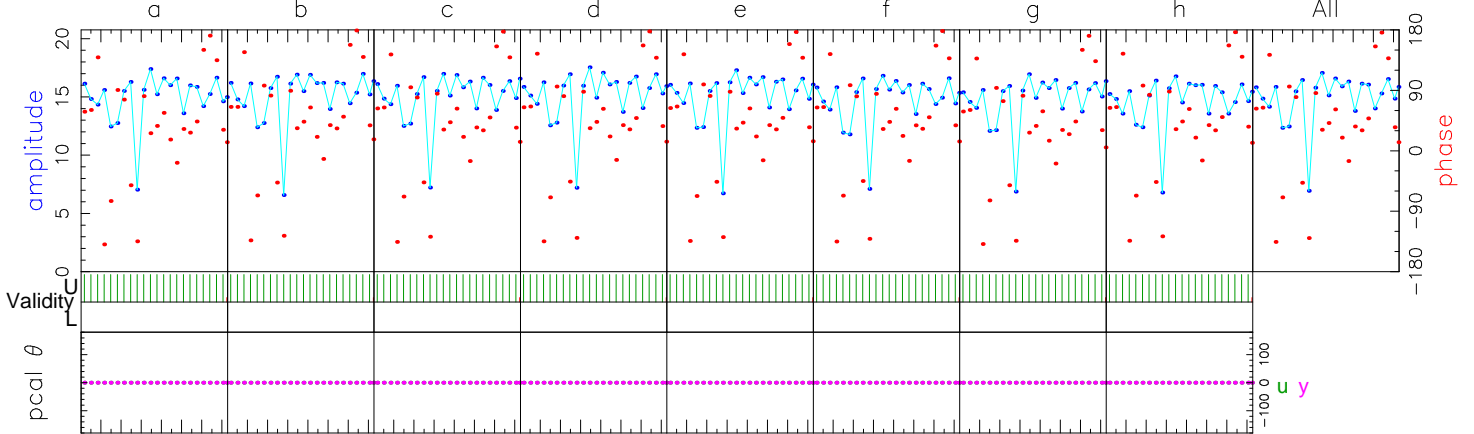


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012713  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-8.16571472151E+02	Apriori delay (usec)	-8.16577992007E+02	Resid mbdelay (usec)	6.51986E-03	+/-	2.8E-06
Sband delay (usec)	-8.16571453507E+02	Apriori clock (usec)	1.3812653E+01	Resid sbdelay (usec)	6.53850E-03	+/-	2.2E-05
Phase delay (usec)	-8.16577990126E+02	Apriori clockrate (us/s)	1.1270000E-06	Resid phdelay (usec)	1.88085E-06	+/-	9.5E-09
Delay rate (us/s)	-3.18025243540E-02	Apriori rate (us/s)	-3.18024990826E-02	Resid rate (us/s)	-2.52714E-08	+/-	3.9E-11
Total phase (deg)	-25.0	Apriori accel (us/s/s)	2.29644046101E-06	Resid phase (deg)	58.3	+/-	0.3

ph/seg (deg)	77.8	RMS	77.8	Theor.	0.7	Amplitude	6.919 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	119.5		119.5		1.2	Search (2048X32)	6.632	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	2.9		2.9		0.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	1.6		1.6		0.7	Inc. seg. avg.	14.907	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	6.855	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

u: az 301.4 el 31.1 pa 67.7 y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 248.287 -30.198 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/uy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/uy.W.87.1W6A0V



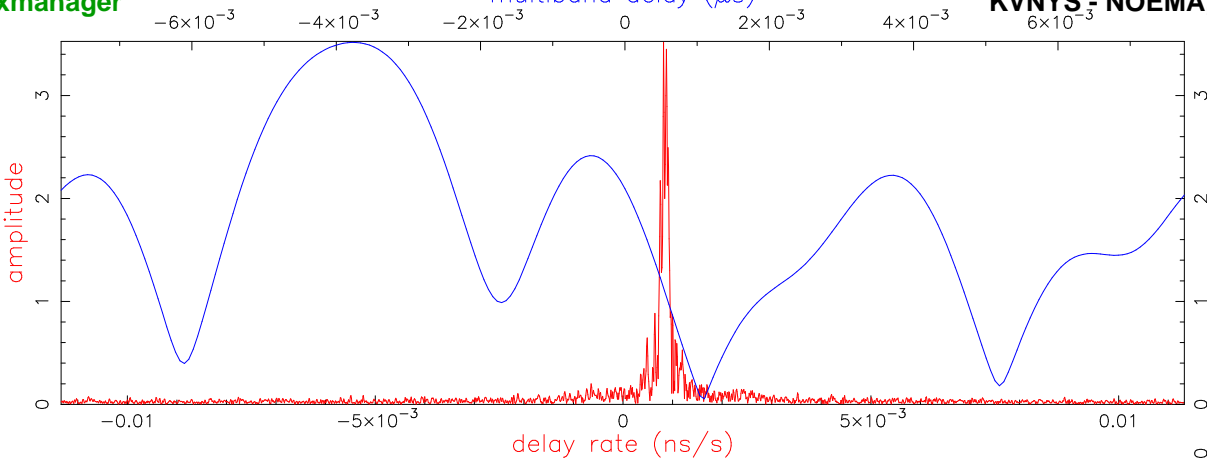
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yN

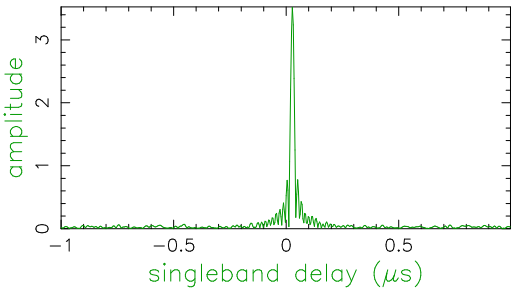
KVNYS - NOEMA, fgroup W, pol RR

multiband delay ( $\mu$ s)

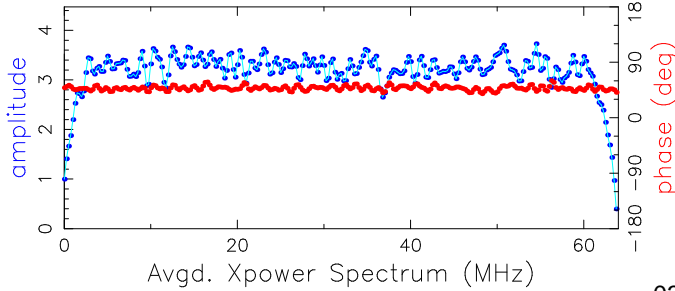


Fringe quality 1

SNR 197.1  
Int time 419.822  
Amp 3.526  
Phase 50.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.027656  
MBD -0.003760  
Fringe rate (Hz)  
0.070461  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

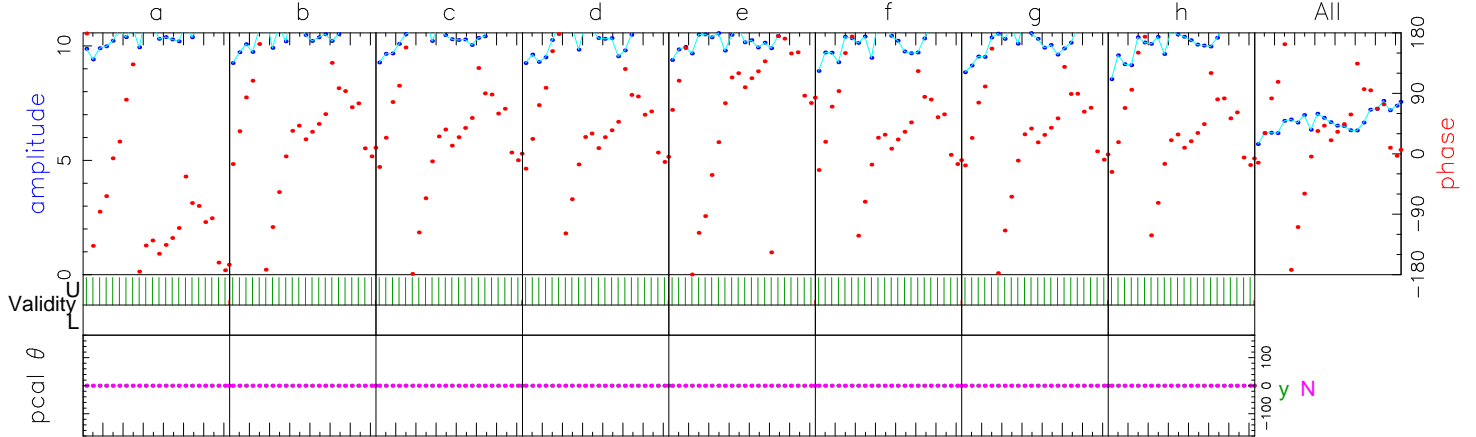


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012721  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-119.6	51.0	43.4	40.3	128.5	37.9	44.3	36.5	Phase	50.0
	5.6	5.6	5.5	5.5	5.5	5.5	5.4	5.4	Ampl.	5.5
	263.9	264.0	264.1	263.9	264.2	264.0	264.1	264.0	Sbd box	264.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -6.41204567839E+03 Apriori delay (usec) -6.41207316810E+03 Resid mbdelay (usec) -3.76029E-03 +/- 5.5E-06  
 Sband delay (usec) -6.41204551185E+03 Apriori clock (usec) 1.4009432E+01 Resid sbdelay (usec) 2.76562E-02 +/- 4.4E-05  
 Phase delay (usec) -6.41207316649E+03 Apriori clockrate (us/s) 5.7600001E-06 Resid phdelay (usec) 1.61196E-06 +/- 1.9E-08  
 Delay rate (us/s) -1.47632217404E+00 Apriori rate (us/s) -1.47632299203E+00 Resid rate (us/s) 8.17988E-07 +/- 7.7E-11  
 Total phase (deg) -202.0 Apriori accel (us/s/s) 2.71894835081E-05 Resid phase (deg) 50.0 +/- 0.6

RMS Theor. Amplitude 3.526 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 66.8 1.4 Search (2048X32) 3.469 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 91.4 2.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 76.8 0.8 Inc. seg. avg. 6.715 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 56.6 1.4 Inc. frq. avg. 5.520 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

y: az 299.6 el 33.7 pa 66.8 N: az 78.8 el 56.9 pa -69.1 u,v (fr/asec) 11356.269 1151.412 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yN..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yN.W.117.1W6A0V

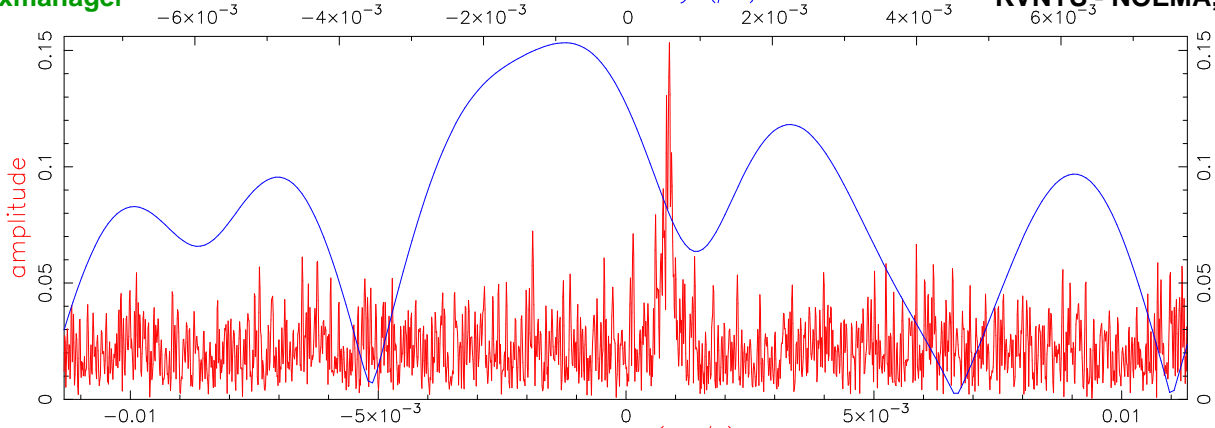
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yN

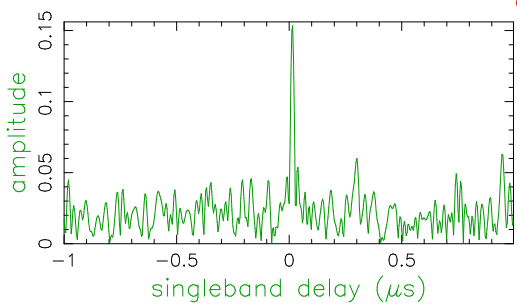
KVNSY- NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

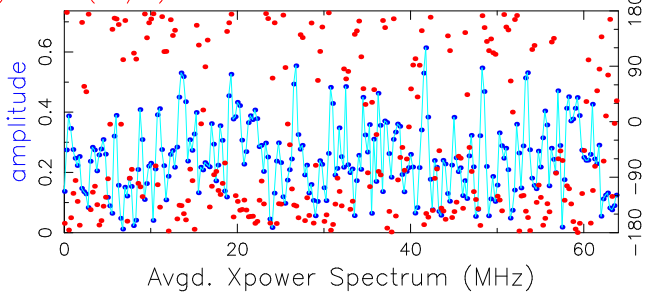


Fringe quality 9

SNR 8.7  
 Int time 419.822  
 Amp 0.156  
 Phase 22.6  
 PFD 1.0e-09  
 Delays (us)  
 SBD 0.014096  
 MBD -0.000912  
 Fringe rate (Hz)  
 0.074993  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

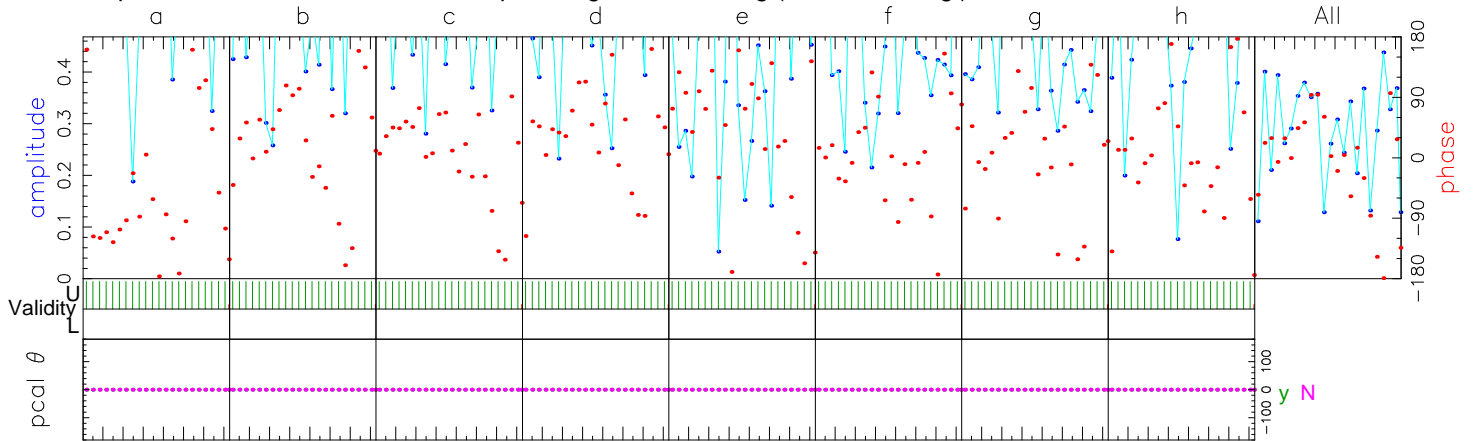


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012724  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.9	47.1	28.1	44.5	104.0	3.4	32.1	-9.5	Phase	22.6
	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	261.0	260.4	260.5	260.5	342.0	261.1	261.3	259.5	Sbd box	260.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.41205845512E+03	Apriori delay (usec)	-6.41207316810E+03	Resid mbdelay (usec)	-9.12021E-04	+/-	1.2E-04
Sband delay (usec)	-6.41205907210E+03	Apriori clock (usec)	1.4009432E+01	Resid sbdelay (usec)	1.40960E-02	+/-	9.9E-04
Phase delay (usec)	-6.41207316737E+03	Apriori clockrate (us/s)	5.7600001E-06	Resid phdelay (usec)	7.29052E-07	+/-	4.2E-07
Delay rate (us/s)	-1.47632212143E+00	Apriori rate (us/s)	-1.47632299203E+00	Resid rate (us/s)	8.70596E-07	+/-	1.7E-09
Total phase (deg)	-229.4	Apriori accel (us/s/s)	2.71894835081E-05	Resid phase (deg)	22.6	+/-	13.1

ph/seg (deg)	69.6	RMS	31.5	Theor.	Amplitude	0.156 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	107.3		55.0		Search (2048X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	68.2		18.6		Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	68.1		32.4		Inc. seg. avg.	0.257	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
					Inc. frq. avg.	0.235	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

y: az 299.6 el 33.7 pa 66.8 N: az 78.8 el 56.9 pa -69.1 u,v (fr/asec) 11356.269 1151.412 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yN..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yN.W.135.1W6A0V

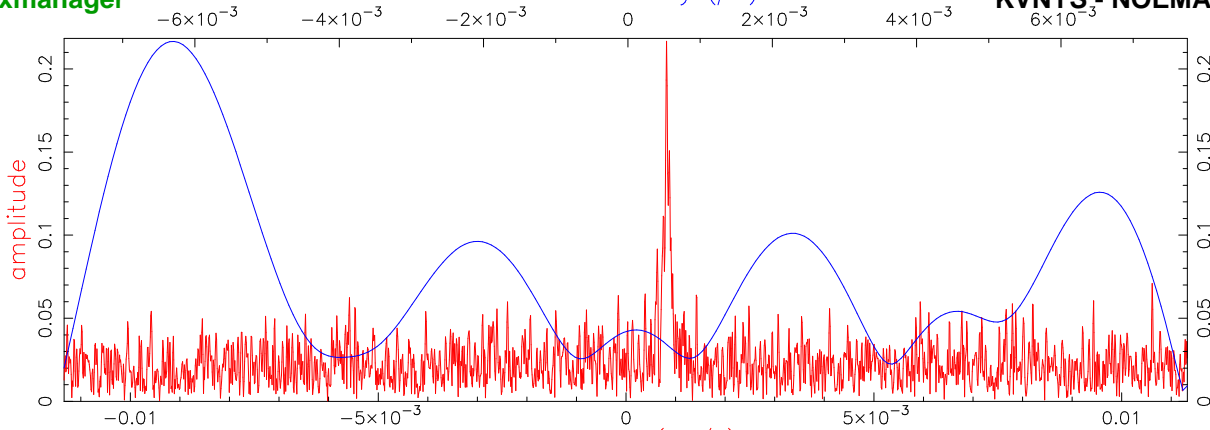
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yN

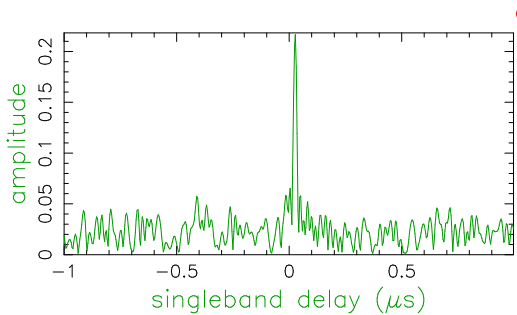
KVNS- NOEMA, fgroup W, pol RL

multiband delay ( $\mu$ s)

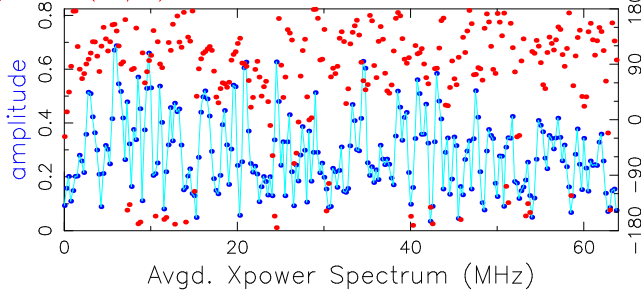


Fringe quality 9

SNR 12.2  
 Int time 419.822  
 Amp 0.218  
 Phase 131.0  
 PFD 1.4e-25  
 Delays (us)  
 SBD 0.026401  
 MBD -0.006309  
 Fringe rate (Hz)  
 0.070423  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

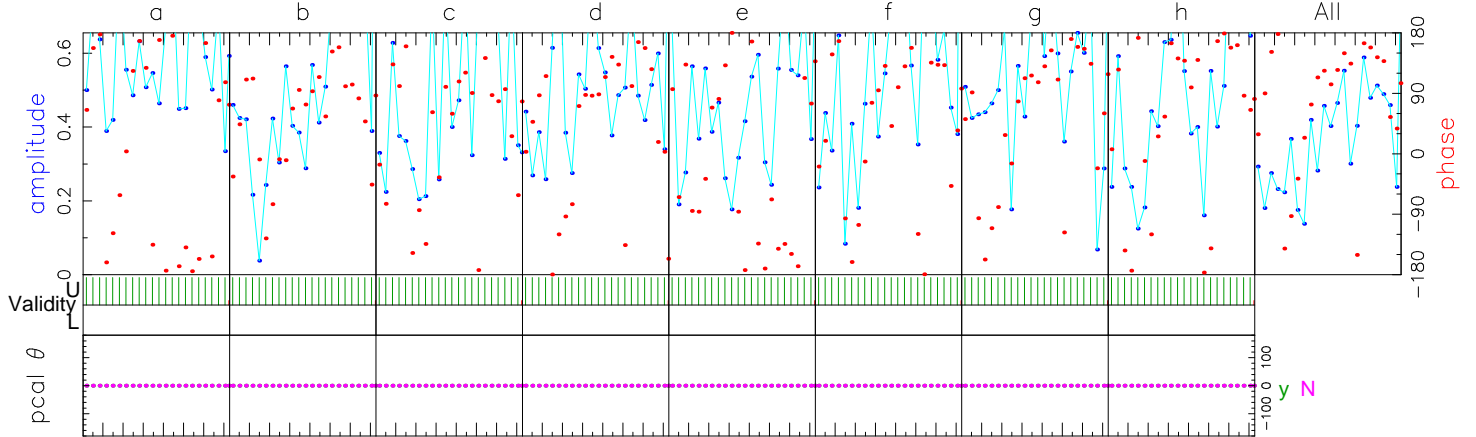


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012727  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.41204822711E+03	Apriori delay (usec)	-6.41207316810E+03	Resid mbdelay (usec)	-6.30901E-03	+/-	8.9E-05
Sband delay (usec)	-6.41204676660E+03	Apriori clock (usec)	1.4009432E+01	Resid sbdelay (usec)	2.64015E-02	+/-	7.1E-04
Phase delay (usec)	-6.41207316388E+03	Apriori clockrate (us/s)	5.7600001E-06	Resid phdelay (usec)	4.22325E-06	+/-	3.0E-07
Delay rate (us/s)	-1.47632217449E+00	Apriori rate (us/s)	-1.47632299203E+00	Resid rate (us/s)	8.17539E-07	+/-	1.2E-09
Total phase (deg)	-121.1	Apriori accel (us/s/s)	2.71894835081E-05	Resid phase (deg)	131.0	+/-	9.4

ph/seg (deg)	70.0	Theor.	22.5	Amplitude	0.218 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	90.5		39.3	Search (2048X32)	0.211	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	39.8		13.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	29.5		23.2	Inc. seg. avg.	0.338	Sample rate(MISamp/s):	128	Resid rate (us/s)	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.252	Data rate(Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00 0.00

y: az 299.6 el 33.7 pa 66.8 N: az 78.8 el 56.9 pa -69.1 u,v (fr/asec) 11356.269 1151.412 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yN..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yN.W.152.1W6A0V

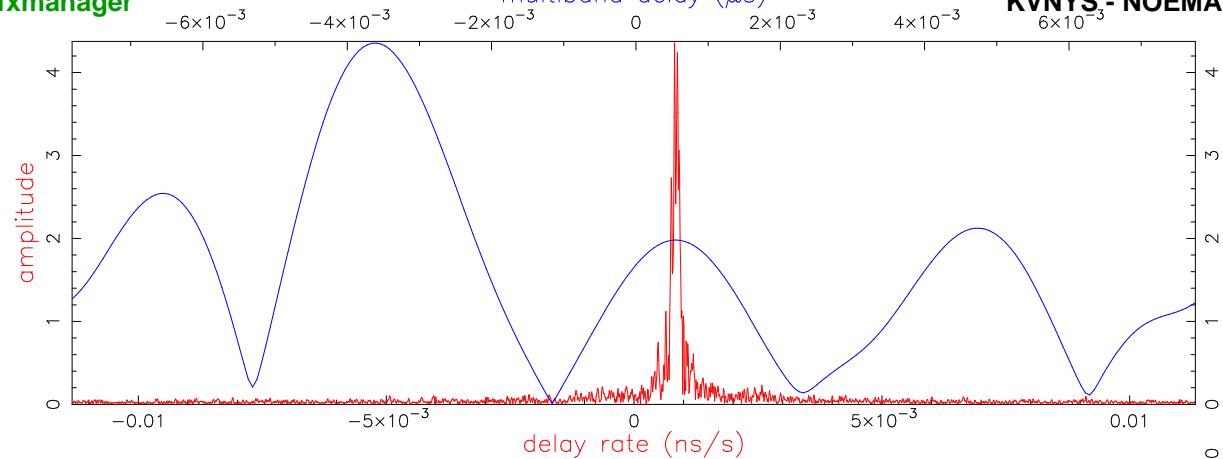
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yN

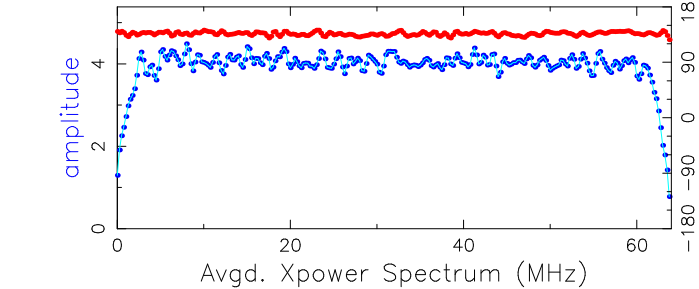
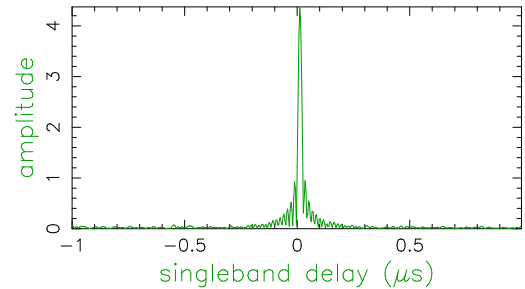
KVNSY- NOEMA, fgroup W, pol LL

multiband delay ( $\mu$ s)



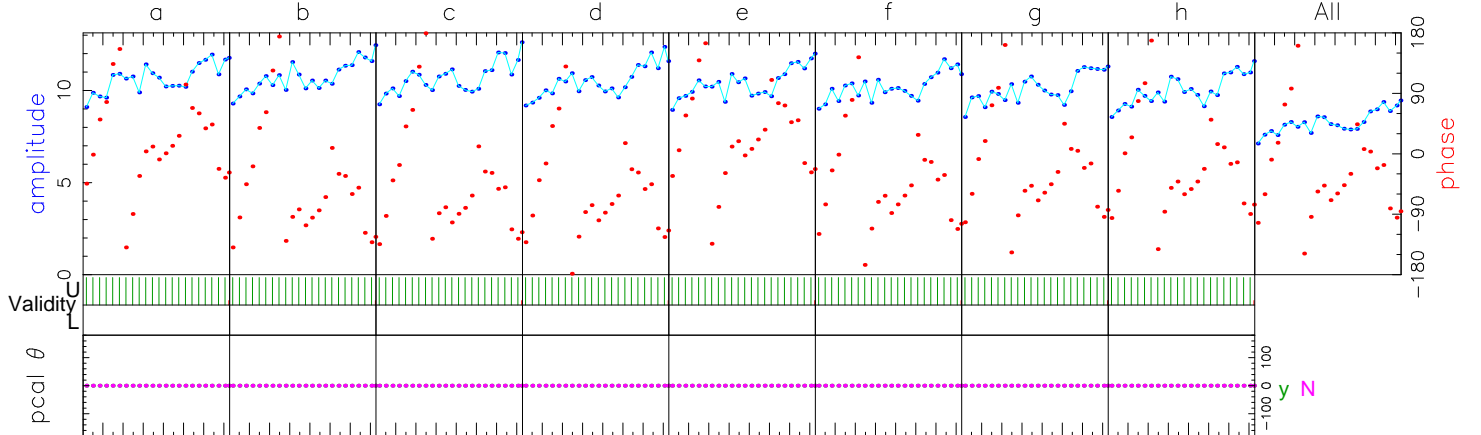
Fringe quality 2

SNR 244.7  
 Int time 419.822  
 Amp 4.376  
 Phase -40.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.012327  
 MBD -0.003616  
 Fringe rate (Hz)  
 0.070455  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012717  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.41206115870E+03	Apriori delay (usec)	-6.41207316810E+03	Resid mbdelay (usec)	-3.61560E-03	+/-	4.4E-06
Sband delay (usec)	-6.41206084085E+03	Apriori clock (usec)	1.4009432E+01	Resid sbdelay (usec)	1.23273E-02	+/-	3.5E-05
Phase delay (usec)	-6.41207316939E+03	Apriori clockrate (us/s)	5.7600001E-06	Resid phdelay (usec)	-1.28856E-06	+/-	1.5E-08
Delay rate (us/s)	-1.47632217411E+00	Apriori rate (us/s)	-1.47632299203E+00	Resid rate (us/s)	8.17915E-07	+/-	6.2E-11
Total phase (deg)	-292.0	Apriori accel (us/s/s)	2.71894835081E-05	Resid phase (deg)	-40.0	+/-	0.5

ph/seg (deg)	66.8	RMS	Theor.	Amplitude	4.376 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	89.8	66.8	1.1	Search (2048X32)	4.256	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	43.9	89.8	2.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	25.6	43.9	0.7	Inc. seg. avg.	8.263	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011	
		25.6	1.2	Inc. frq. avg.	5.492	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	

y: az 299.6 el 33.7 pa 66.8 N: az 78.8 el 56.9 pa -69.1 u,v (fr/asec) 11356.269 1151.412 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yN..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yN.W.99.1W6A0V

Mk4/DiFX fourfit 3.21 rev 2937

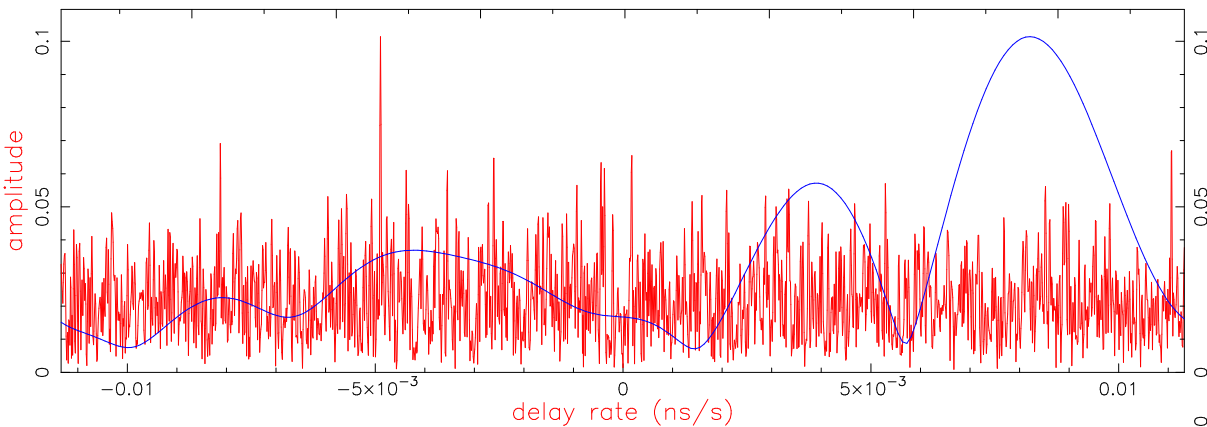
fxmanager

3C84.1W6A0V, No0212, yP

KVNYS - PICOVEL, fgroup W, pol LL

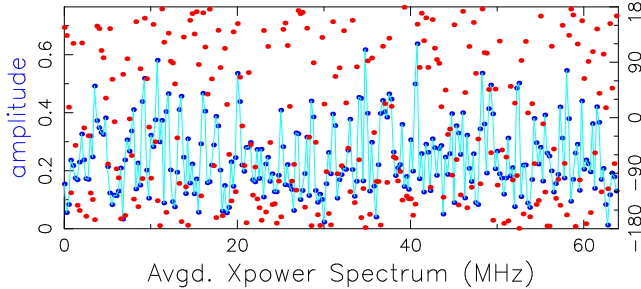
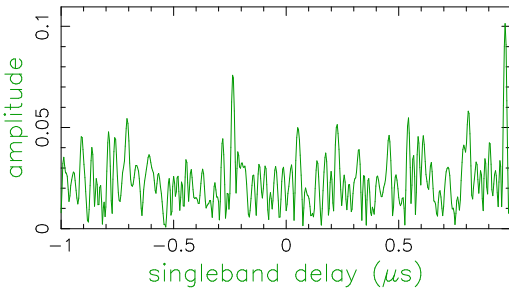
multiband delay ( $\mu$ s)

$-6 \times 10^{-3}$   $-4 \times 10^{-3}$   $-2 \times 10^{-3}$  0  $2 \times 10^{-3}$   $4 \times 10^{-3}$   $6 \times 10^{-3}$



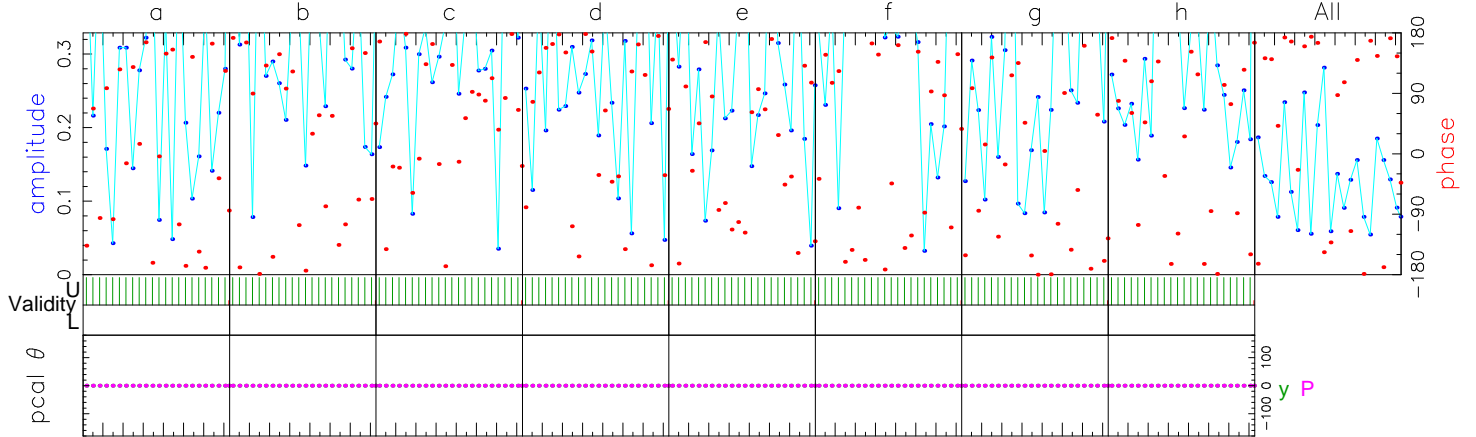
Fringe quality 0

SNR 5.7  
 Int time 419.824  
 Amp 0.110  
 Phase 167.4  
 PFD 9.6e-01  
 Delays (us)  
 SBD 0.972712  
 MBD 0.005613  
 Fringe rate (Hz)  
 -0.422425  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012717  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-165.2	171.5	95.7	165.0	-166.7	-173.1	165.9	154.5		167.4
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1		0.1
	488.1	158.3	197.0	395.6	367.7	506.6	271.4	68.6		506.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
										Chan ids
										Tracks
										Tracks
Group delay (usec)(sbd)	-4.43092293031E+03		Apriori delay (usec)		-4.43189729349E+03		Resid mbdelay (usec)		5.61318E-03	+/- 1.9E-04
Sband delay (usec)	-4.43092458124E+03		Apriori clock (usec)		1.6655865E+00		Resid sbdelay (usec)		9.72712E-01	+/- 1.5E-03
Phase delay (usec)	-4.43189728809E+03		Apriori clockrate (us/s)		5.9999998E-07		Resid phdelay (usec)		5.39973E-06	+/- 6.5E-07
Delay rate (us/s)	-1.64470569245E+00		Apriori rate (us/s)		-1.64470078851E+00		Resid rate (us/s)		-4.90394E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.40736980268E-05		Resid phase (deg)		167.4	+/- 20.2

RMS Theor. Amplitude 0.110 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 58.1 48.4 Search (2048X32) 0.099 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 71.3 84.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 34.5 28.5 Inc. seg. avg. 0.108 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 37.9 49.8 Inc. frq. avg. 0.110 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 y: az 299.6 el 33.7 pa 66.8 P: az 66.1 el 47.9 pa -77.7 u,v (fr/asec) 12637.979 1581.847 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yP..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yP.W.101.1W6A0V

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

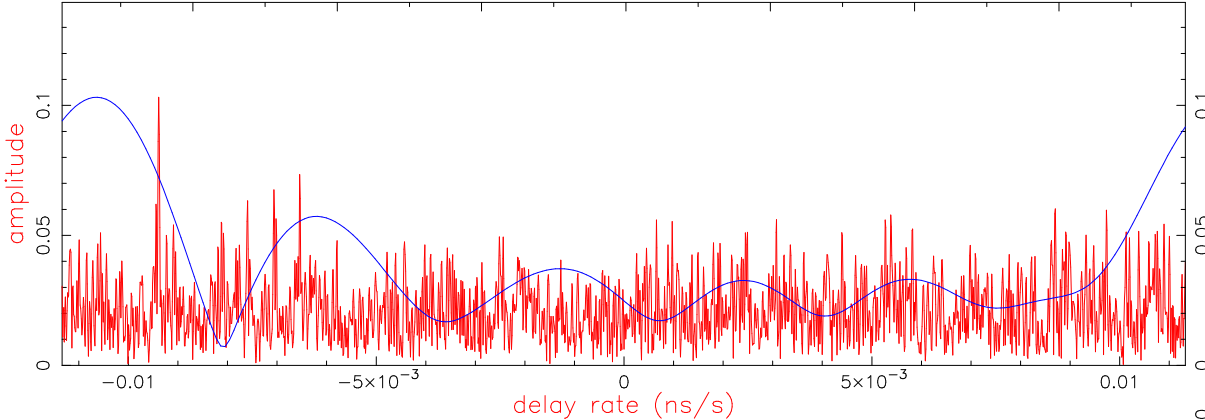
3C84.1W6A0V, No0212, yP

KVNYS - PICOVEL, fgroup W, pol RR

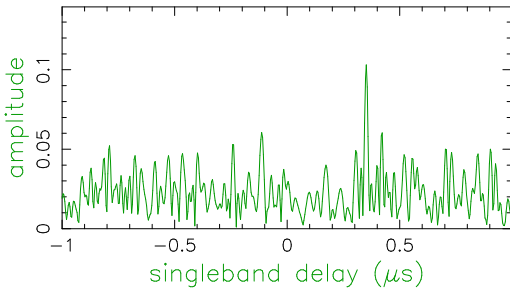
multiband delay ( $\mu$ s)

$-6 \times 10^{-3}$   $-4 \times 10^{-3}$   $-2 \times 10^{-3}$  0  $2 \times 10^{-3}$   $4 \times 10^{-3}$   $6 \times 10^{-3}$

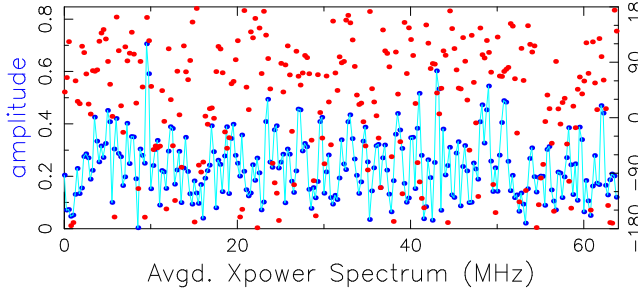
Fringe quality 0



SNR 5.8  
Int time 419.824  
Amp 0.140  
Phase -107.9  
PFD 8.3e-01  
Delays (us)  
SBD 0.351060  
MBD -0.007346  
Fringe rate (Hz)  
-0.810284  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

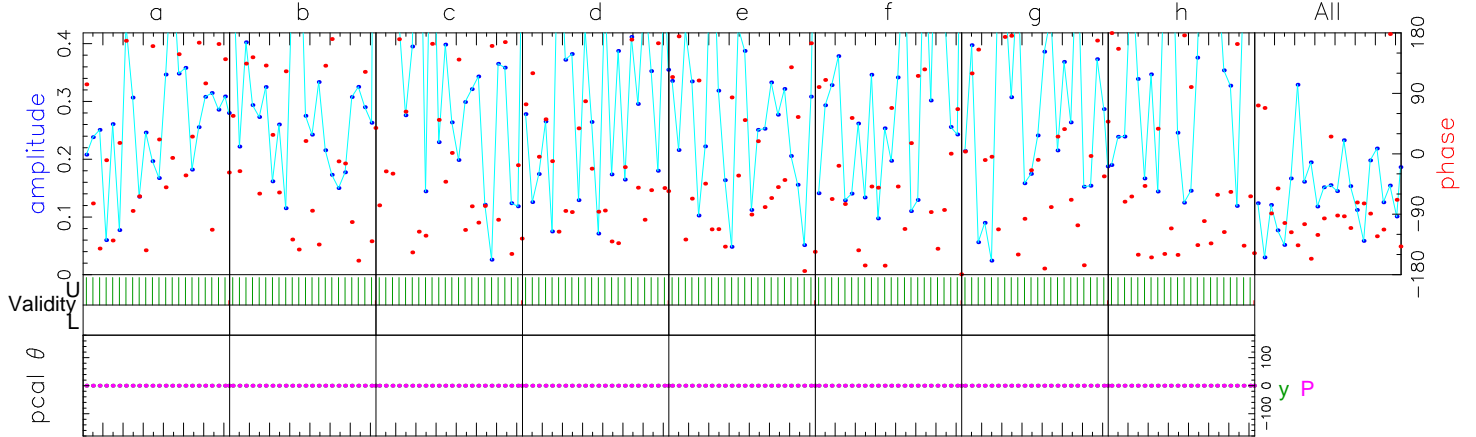


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012721  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
y	1000	1000	1000	1000	1000	1000	1000	1000			
P	1000	1000	1000	1000	1000	1000	1000	1000			
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
y	1000	1000	1000	1000	1000	1000	1000	1000			
P	1000	1000	1000	1000	1000	1000	1000	1000			
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-4.43154526463E+03	-4.43154623324E+03	-4.43189729697E+03	-1.64471019511E+00	-4.43189729349E+03	1.6655865E+00	5.9999998E-07	-1.64470078851E+00	-4.43189729349E+03	-7.34615E-03	+/- 1.9E-04
Sband delay (usec)	-4.43154623324E+03	-4.43189729697E+03	-1.64471019511E+00	-4.43189729349E+03	1.6655865E+00	5.9999998E-07	-1.64470078851E+00	-4.43189729349E+03	1.6655865E+00	3.51060E-01	+/- 1.5E-03
Phase delay (usec)	-4.43189729697E+03	-1.64471019511E+00	-4.43189729349E+03	1.6655865E+00	5.9999998E-07	-1.64470078851E+00	-4.43189729349E+03	1.6655865E+00	5.9999998E-07	-3.47944E-06	+/- 6.4E-07
Delay rate (us/s)	-1.64471019511E+00	-4.43189729349E+03	1.6655865E+00	5.9999998E-07	-1.64470078851E+00	-4.43189729697E+03	-1.64471019511E+00	-4.43189729349E+03	-1.64470078851E+00	-9.40660E-06	+/- 2.6E-09
Total phase (deg)			-57.9		2.40736980268E-05					-107.9	+/- 19.8
RMS	66.8	47.5	47.5	47.5	47.5	47.5	47.5	47.5			
amp/seg (%)	74.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8			
ph/seg (deg)	28.5	28.0	28.0	28.0	28.0	28.0	28.0	28.0			
amp/frq (%)	61.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9			
Search (2048X32)											
Inc. seg. avg.											
Inc. frq. avg.											
PCal mode:	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
PCal rate:	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Bits/sample:	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2
Sample rate (MSamp/s):	128	128	128	128	128	128	128	128	128	128	128
Data rate (Mb/s):	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048
sb window (us)	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	1.000
mb window (us)	-0.008	0.008	-0.008	0.008	-0.008	0.008	-0.008	0.008	-0.008	0.008	0.008
dr window (ns/s)	-0.011	0.011	-0.011	0.011	-0.011	0.011	-0.011	0.011	-0.011	0.011	0.011
ion window (TEC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCal period (AP's)	5	5	5	5	5	5	5	5	5	5	5
SampCntNorm:	enabled	enabled	enabled	enabled	enabled	enabled	enabled	enabled	enabled	enabled	enabled
nlags:	256	256	256	256	256	256	256	256	256	256	256
t_cohere	infinite	infinite	infinite	infinite	infinite	infinite	infinite	infinite	infinite	infinite	infinite

y: az 299.6 el 33.7 pa 66.8 P: az 66.1 el 47.9 pa -77.7 u,v (fr/asec) 12637.979 1581.847 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yP..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yP.W.122.1W6A0V

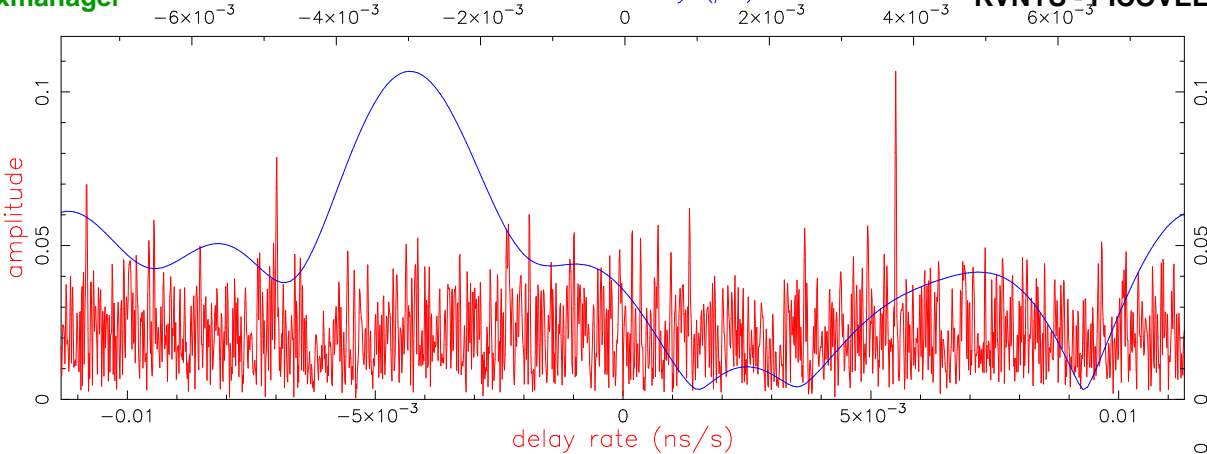
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yP

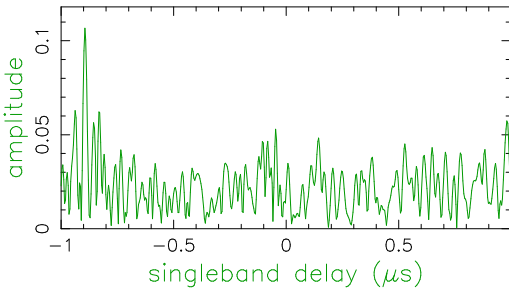
KVNYS - PICOVEL, fgroup W, pol LR

multiband delay ( $\mu$ s)

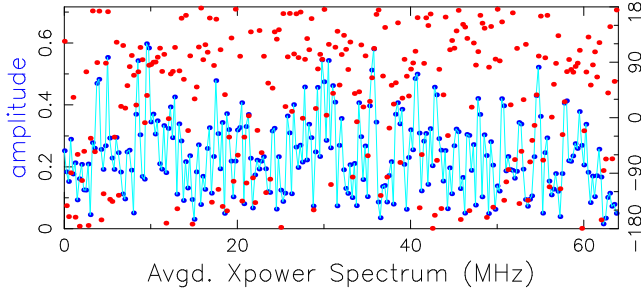


Fringe quality 0

SNR 6.0  
 Int time 419.824  
 Amp 0.118  
 Phase -70.3  
 PFD 4.2e-01  
 Delays (us)  
 SBD -0.893938  
 MBD -0.002975  
 Fringe rate (Hz)  
 0.474772  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

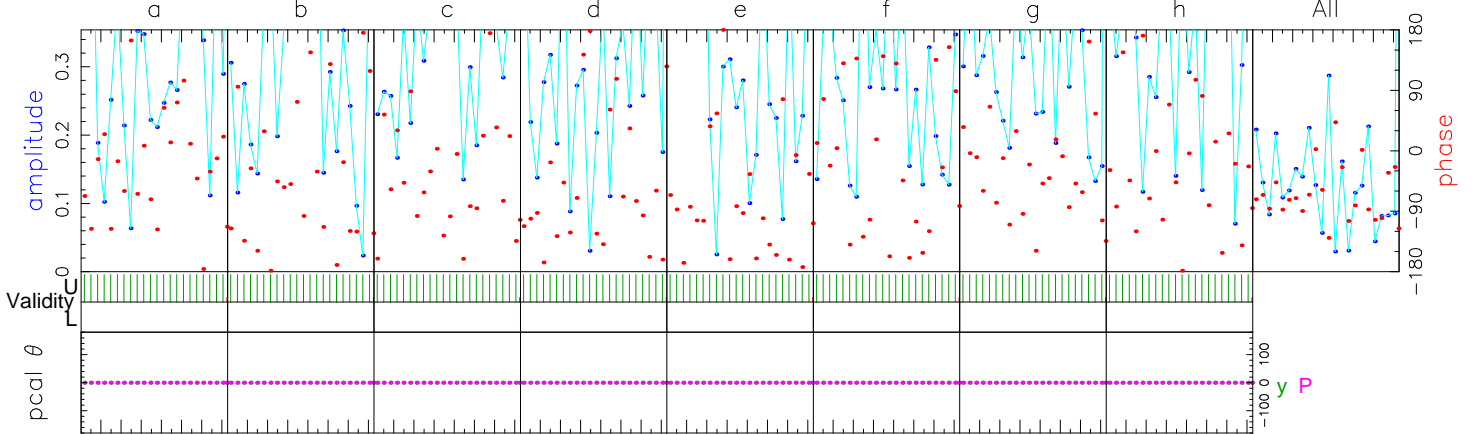


delay rate (ns/s)



Exp. c211a  
 Yr:day 16383  
 Start 2021:114  
 Stop 2021:114  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012726  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-31.2	-102.6	-50.8	-101.4	-109.0	-131.7	-32.7	-55.9	Phase	-70.3
	0.2	0.1	0.1	0.2	0.2	0.0	0.2	0.1	Ampl.	0.1
	203.1	7.7	27.2	125.7	28.7	287.7	28.8	448.1	Sbd box	28.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.43279089388E+03		Apriori delay (usec)		-4.43189729349E+03		Resid mbdelay (usec)		-2.97540E-03	+/- 1.8E-04
Sband delay (usec)	-4.43279123124E+03		Apriori clock (usec)		1.6655865E+00		Resid sbdelay (usec)		-8.93938E-01	+/- 1.4E-03
Phase delay (usec)	-4.43189729575E+03		Apriori clockrate (us/s)		5.9999998E-07		Resid phdelay (usec)		-2.26735E-06	+/- 6.2E-07
Delay rate (us/s)	-1.64469527687E+00		Apriori rate (us/s)		-1.64470078851E+00		Resid rate (us/s)		5.51164E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.40736980268E-05		Resid phase (deg)		-70.3	+/- 19.1

	RMS	Theor.	Amplitude	0.118 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	41.3	45.9	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	83.6	80.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	42.4	27.1	Inc. seg. avg.	0.110	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	54.5	47.2	Inc. frq. avg.	0.128	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

y: az 299.6 el 33.7 pa 66.8 P: az 66.1 el 47.9 pa -77.7 u,v (fr/asec) 12637.979 1581.847 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yP..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yP.W.146.1W6A0V

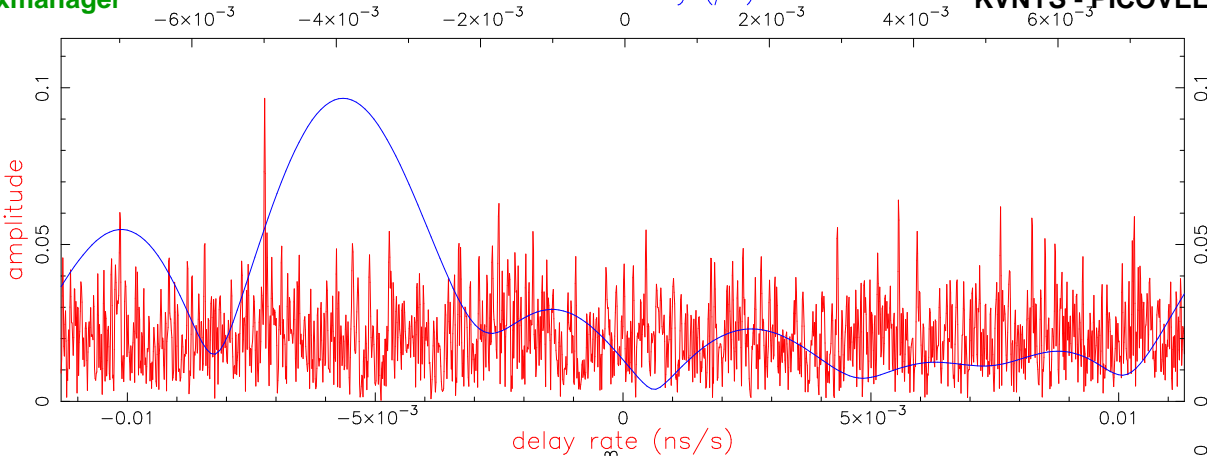
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yP

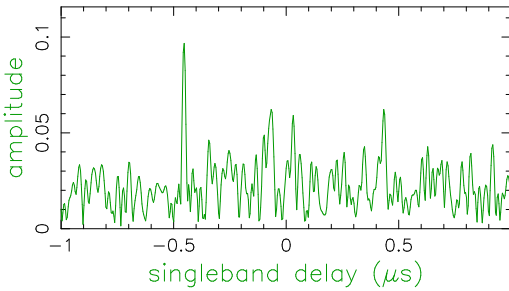
KVNYS - PICOVEL, fgroup W, pol RL

multiband delay ( $\mu$ s)

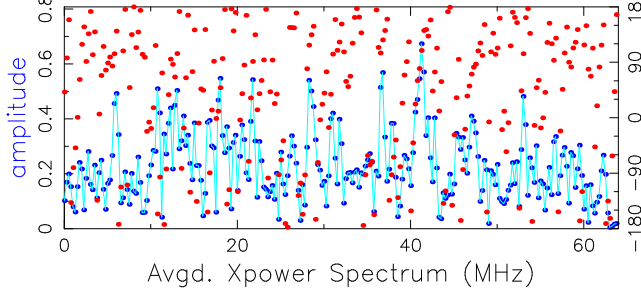


Fringe quality 0

SNR 5.4  
 Int time 419.824  
 Amp 0.116  
 Phase -33.5  
 PFD 1.0e+00  
 Delays (us)  
 SBD -0.454126  
 MBD -0.003924  
 Fringe rate (Hz)  
 -0.623758  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

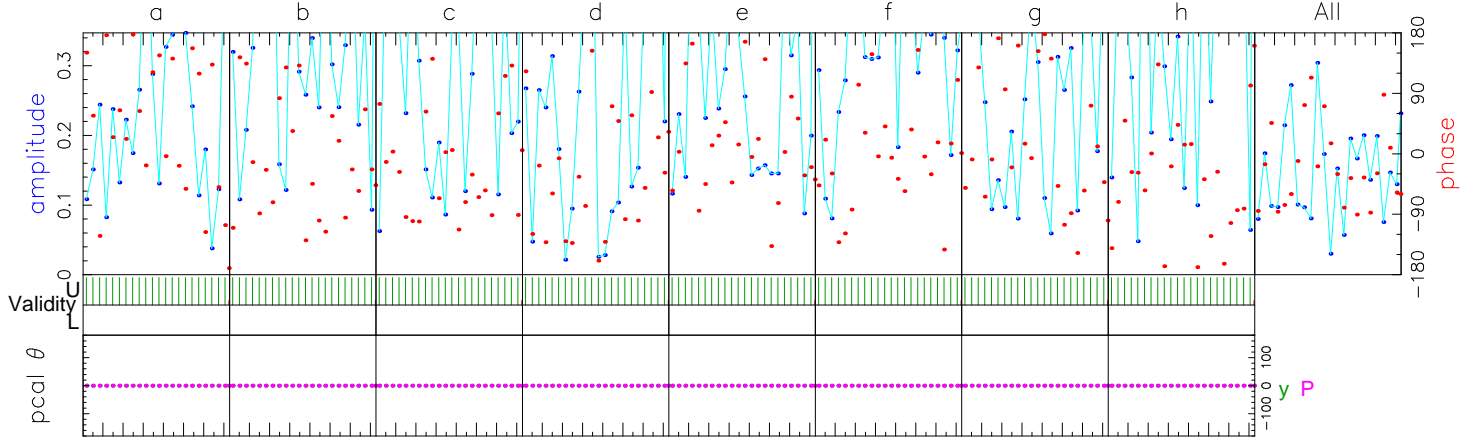


delay rate (ns/s)



Exp. c211a  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012729  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.7	-48.1	-49.6	-35.7	5.4	-3.9	-37.9	-55.5	Phase	-33.5
	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	462.3	235.7	448.2	56.2	21.6	306.0	307.1	431.7	Sbd box	140.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.43235434294E+03		Apriori delay (usec)		-4.43189729349E+03		Resid mbdelay (usec)		-3.92445E-03	+/- 2.0E-04
Sband delay (usec)	-4.43235141949E+03		Apriori clock (usec)		1.6655865E+00		Resid sbdelay (usec)		-4.54126E-01	+/- 1.6E-03
Phase delay (usec)	-4.43189729457E+03		Apriori clockrate (us/s)		5.9999998E-07		Resid phdelay (usec)		-1.07936E-06	+/- 6.8E-07
Delay rate (us/s)	-1.64470802972E+00		Apriori rate (us/s)		-1.64470078851E+00		Resid rate (us/s)		-7.24121E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		2.40736980268E-05		Resid phase (deg)		-33.5	+/- 21.0

	RMS	Theor.	Amplitude	0.116 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	62.6	50.4	Search (2048X32)	0.096	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	85.2	88.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	26.3	29.7	Inc. seg. avg.	0.125	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.5	51.9	Inc. frq. avg.	0.110	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

y: az 299.6 el 33.7 pa 66.8 P: az 66.1 el 47.9 pa -77.7 u,v (fr/asec) 12637.979 1581.847 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yP..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yP.W.157.1W6A0V





Mk4/DiFX fourfit 3.21 rev 2937

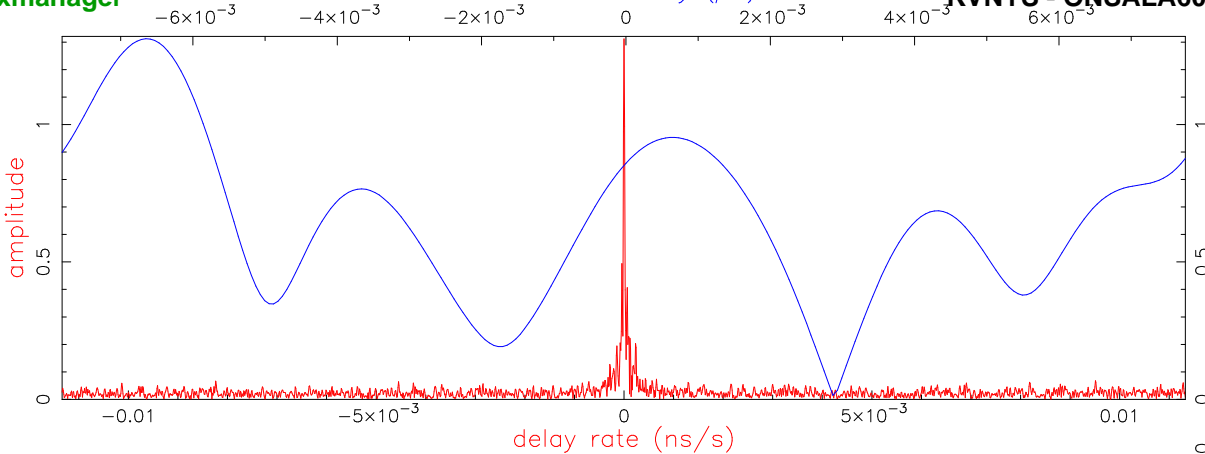
fxmanager

3C84.1W6A0V, No0212, yX

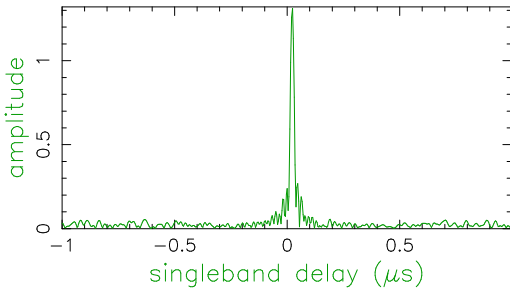
KVNYS - ONSALA60, fgroup W, pol RR

multiband delay ( $\mu$ s)

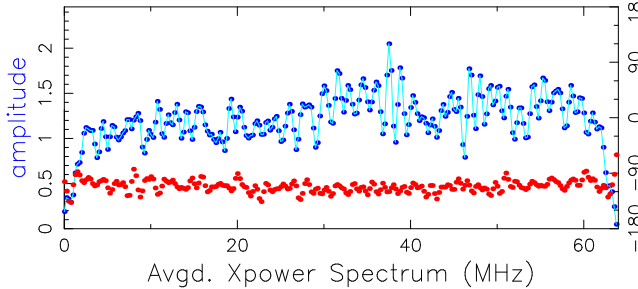
Fringe quality 3



SNR 74.0  
 Int time 419.793  
 Amp 1.321  
 Phase -137.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.022366  
 MBD -0.006677  
 Fringe rate (Hz)  
 0.000124  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

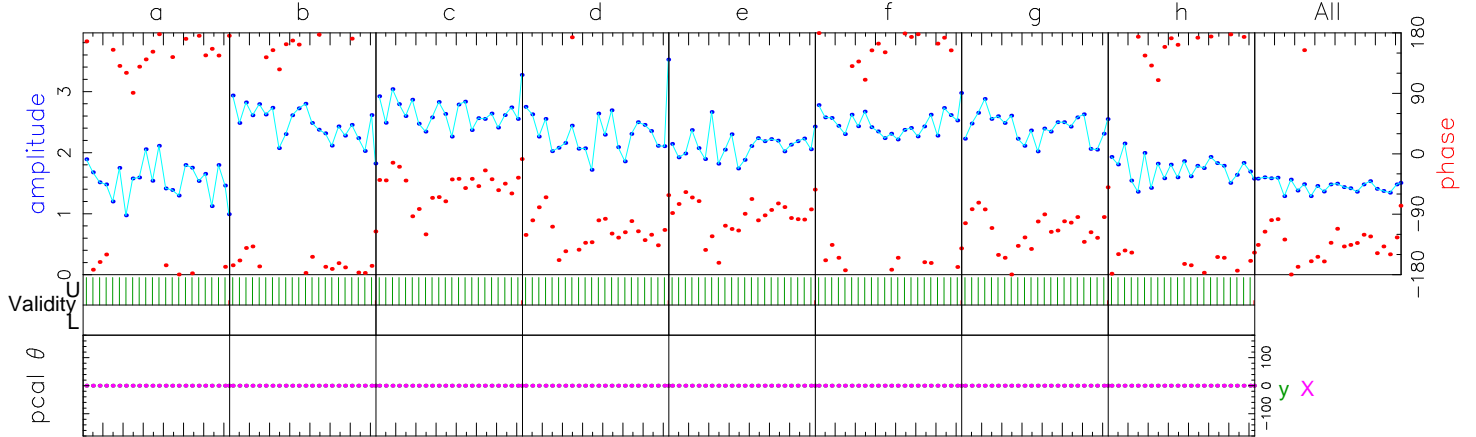


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012721  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Group delay (usec)(sbd)	162.2	-176.5	-49.1	-118.2	-92.9	175.5	-113.5	-179.1		Phase -137.3
Sband delay (usec)	1.4	2.3	2.4	2.1	1.9	2.2	2.2	1.6		Ampl. 2.0
Phase delay (usec)	264.3	263.2	262.8	262.1	262.0	262.3	262.4	262.5		Sbd box 262.7
Delay rate (us/s)	U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used 1000
	y 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs 1000
	X 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs 1000
y:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase 0:0
y:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC 0:0
y 1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp 1000
X 1000	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	-7.09109629159E+03		Apriori delay (usec)	-7.09112086509E+03		Resid mbdelay (usec)	-6.67650E-03	+/-	1.5E-05	
Sband delay (usec)	-7.09109849934E+03		Apriori clock (usec)	-5.5694149E+01		Resid sbdelay (usec)	2.23658E-02	+/-	1.2E-04	
Phase delay (usec)	-7.09112086952E+03		Apriori clockrate (us/s)	-5.2800001E-07		Resid phdelay (usec)	-4.42857E-06	+/-	5.0E-08	
Delay rate (us/s)	-1.28616027462E+00		Apriori rate (us/s)	-1.28616027607E+00		Resid rate (us/s)	1.44333E-09	+/-	2.1E-10	
Total phase (deg)		-252.1	Apriori accel (us/s/s)	1.99572640365E-05		Resid phase (deg)	-137.3	+/-	1.5	

ph/seg (deg) 25.6 3.7 Search (2048X32) 1.288 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 12.2 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) 57.5 2.2 Inc. seg. avg. 1.450 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 57.3 3.8 Inc. frq. avg. 1.999 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 y: az 299.6 el 33.7 pa 66.8 X: az 104.9 el 60.4 pa -43.8 u,v (fr/asec) 9888.258 -263.227 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yX..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yX.W.120.1W6A0V simultaneous interpolator

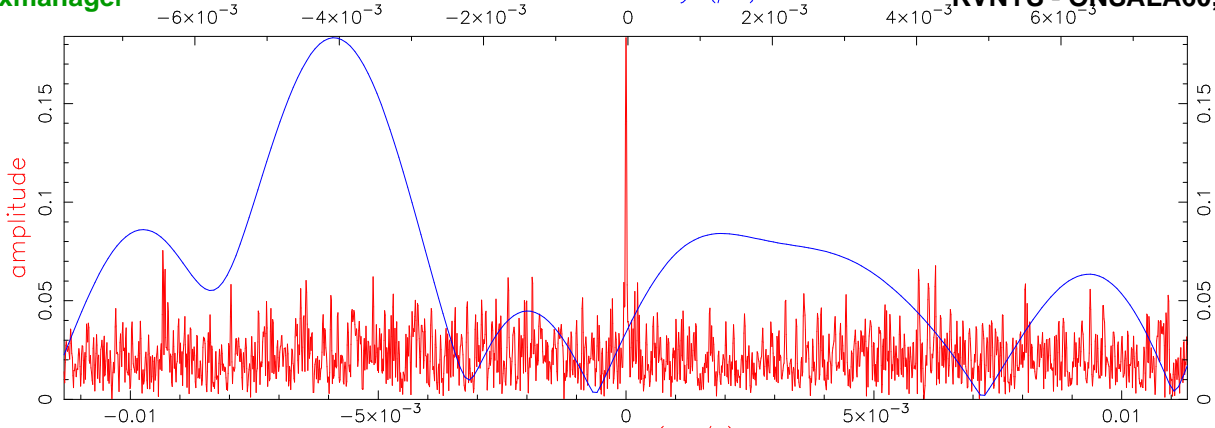
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yX

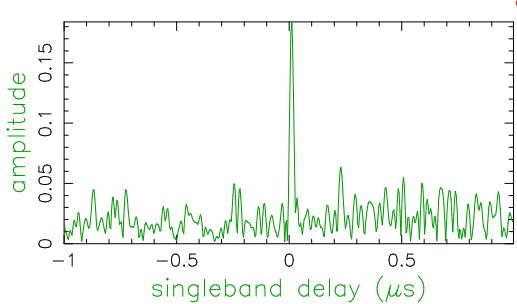
KVNYS - ONSALA60, fgroup W, pol LR

multiband delay ( $\mu$ s)

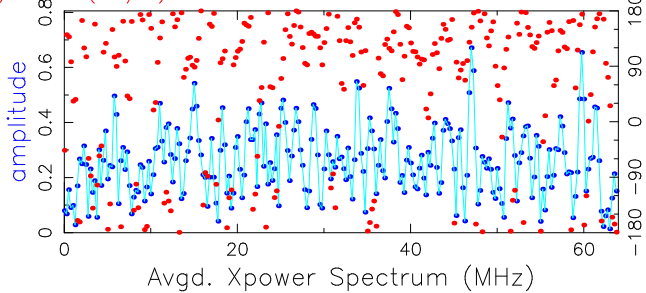


Fringe quality 9

SNR 10.3  
 Int time 419.793  
 Amp 0.184  
 Phase -45.1  
 PFD 2.7e-16  
 Delays (us)  
 SBD 0.010877  
 MBD -0.004093  
 Fringe rate (Hz)  
 -0.000025  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

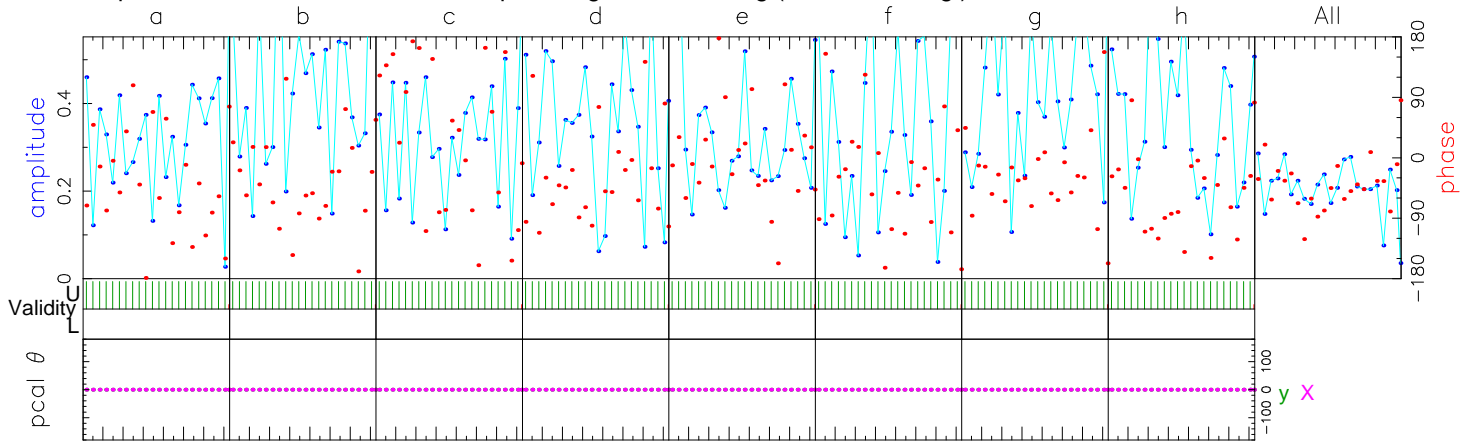


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012725  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-59.0	-45.7	158.5	-48.6	-0.3	-58.6	-36.2	-64.2		-45.1
	0.2	0.3	0.1	0.3	0.2	0.2	0.3	0.2		0.2
	228.9	260.6	216.2	259.5	258.7	259.1	259.5	259.3		259.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	-7.09110933300E+03		Apriori delay (usec)		-7.09112086509E+03		Resid mbdelay (usec)		-4.09291E-03	+/- 1.1E-04
Sband delay (usec)	-7.09110998784E+03		Apriori clock (usec)		-5.5694149E+01		Resid sbdelay (usec)		1.08772E-02	+/- 8.4E-04
Phase delay (usec)	-7.09112086654E+03		Apriori clockrate (us/s)		-5.2800001E-07		Resid phdelay (usec)		-1.45295E-06	+/- 3.6E-07
Delay rate (us/s)	-1.28616027636E+00		Apriori rate (us/s)		-1.28616027607E+00		Resid rate (us/s)		-2.95469E-10	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.99572640365E-05		Resid phase (deg)		-45.1	+/- 11.1

	RMS	Theor.	Amplitude	0.184 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	33.6	26.6	Search (2048X32)	0.181	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	30.6	46.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	67.5	15.7	Inc. seg. avg.	0.191	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	41.5	27.4	Inc. frq. avg.	0.204	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

y: az 299.6 el 33.7 pa 66.8 X: az 104.9 el 60.4 pa -43.8 u,v (fr/asec) 9888.258 -263.227 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yX..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yX.W.140.1W6A0V

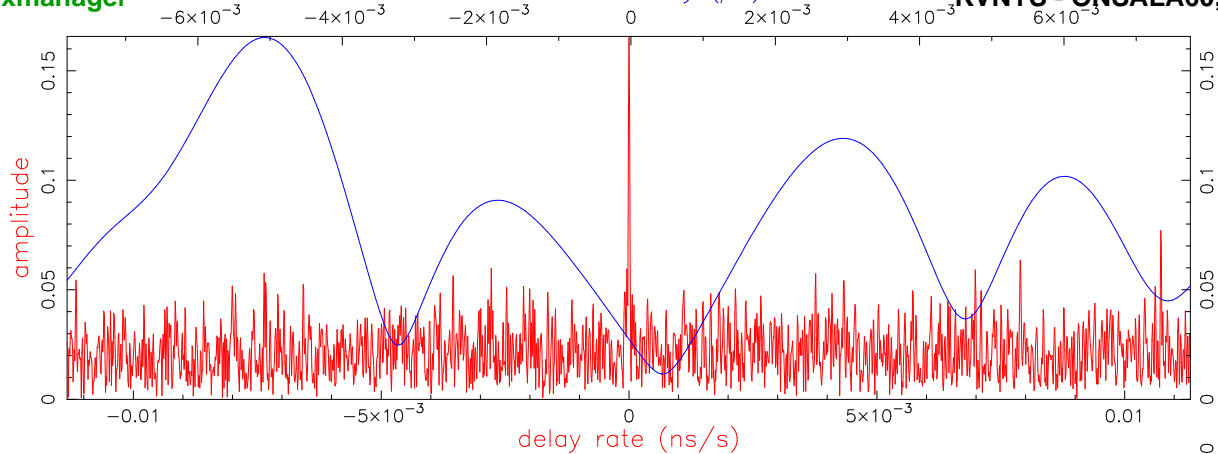
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yX

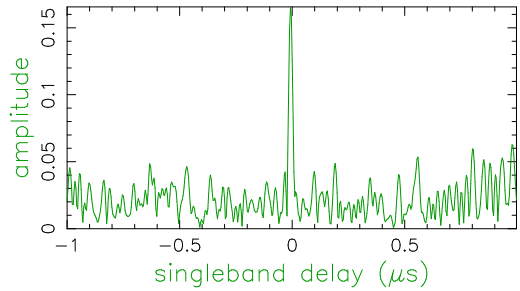
KVNYS - ONSALA60, fgroup W, pol RL

multiband delay ( $\mu$ s)

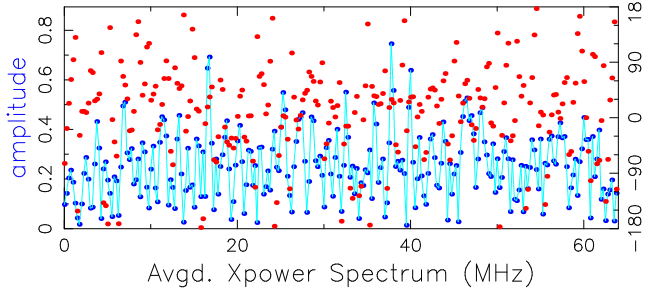


Fringe quality 9

SNR 9.3  
Int time 419.793  
Amp 0.166  
Phase 2.1  
PFD 6.6e-12  
Delays (us)  
SBD -0.007039  
MBD -0.005043  
Fringe rate (Hz) 0.000320  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

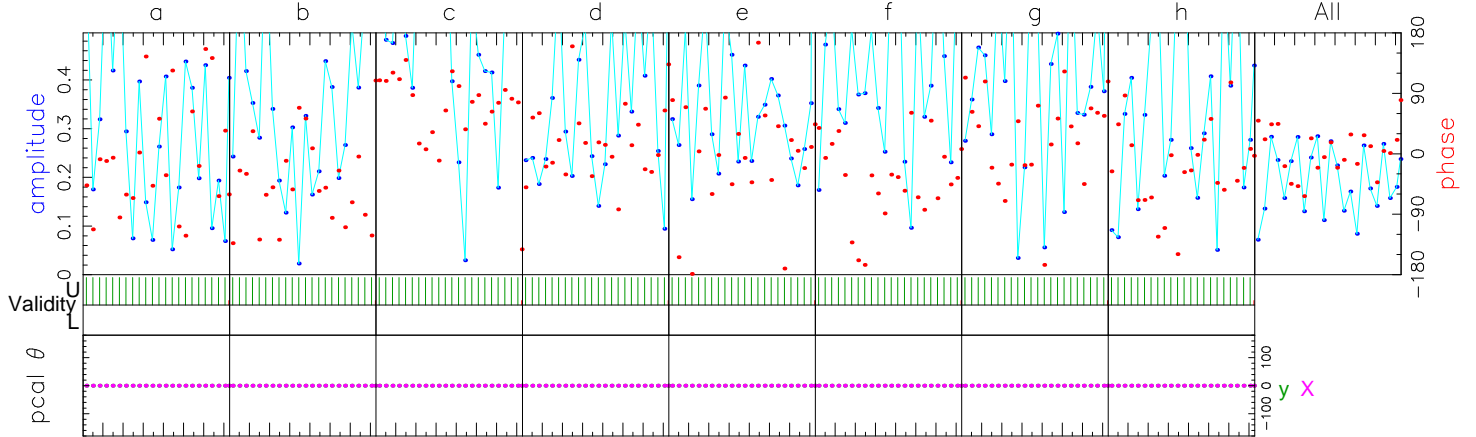


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012728  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.7	-59.5	76.1	9.9	26.4	-39.5	27.9	-35.5	Phase	2.1
	0.1	0.2	0.4	0.3	0.2	0.3	0.3	0.2	Ampl.	0.2
	257.9	255.3	255.6	254.1	253.2	254.7	254.7	254.7	Sbd box	255.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
y	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)	-7.09112590856E+03		Apriori delay (usec)		-7.09112086509E+03		Resid mbdelay (usec)		-5.04347E-03	+/- 1.2E-04
Sband delay (usec)	-7.09112790434E+03		Apriori clock (usec)		-5.5694149E-01		Resid sbdelay (usec)		-7.03925E-03	+/- 9.3E-04
Phase delay (usec)	-7.09112086502E+03		Apriori clockrate (us/s)		-5.2800001E-07		Resid phdelay (usec)		6.89746E-08	+/- 4.0E-07
Delay rate (us/s)	-1.28616027235E+00		Apriori rate (us/s)		-1.28616027607E+00		Resid rate (us/s)		3.71709E-09	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.99572640365E-05		Resid phase (deg)		2.1	+/- 12.3

ph/seg (deg) 31.8 29.6 Search (2048X32) 0.160 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 43.7 51.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 50.7 17.5 Inc. seg. avg. 0.171 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 63.8 30.5 Inc. frq. avg. 0.229 Data rate (M/Samp/s): 128 Sample rate (M/Samp/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
y: az 299.6 el 33.7 pa 66.8 X: az 104.9 el 60.4 pa -43.8 u,v (fr/asec) 9888.258 -263.227 ion window (TEC) 0.00 0.00  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yX..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yX.W.156.1W6A0V simultaneous interpolator

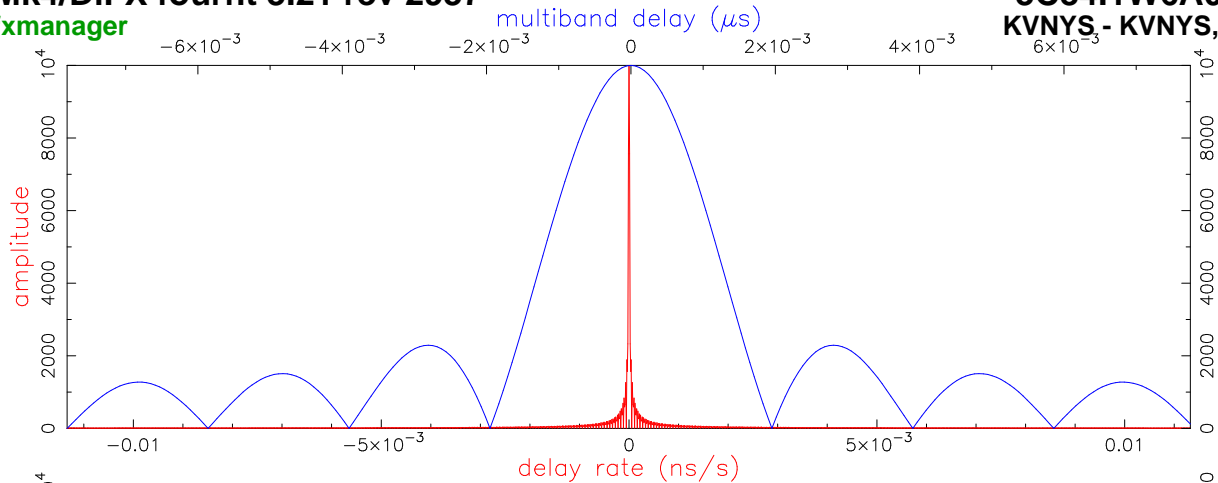


Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

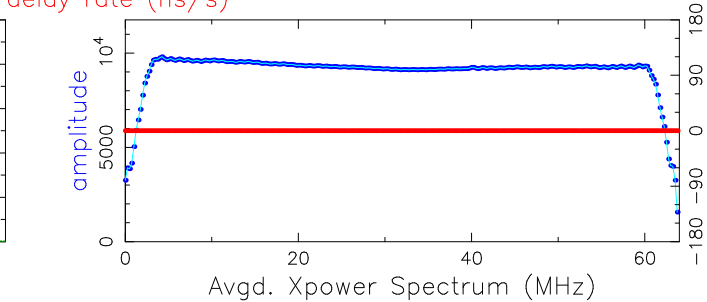
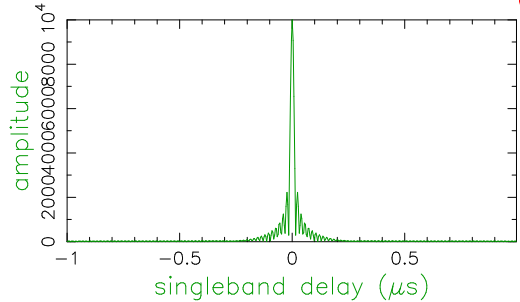
3C84.1W6A0V, No0212, yy

KVNS - KVNS, fgroup W, pol RR



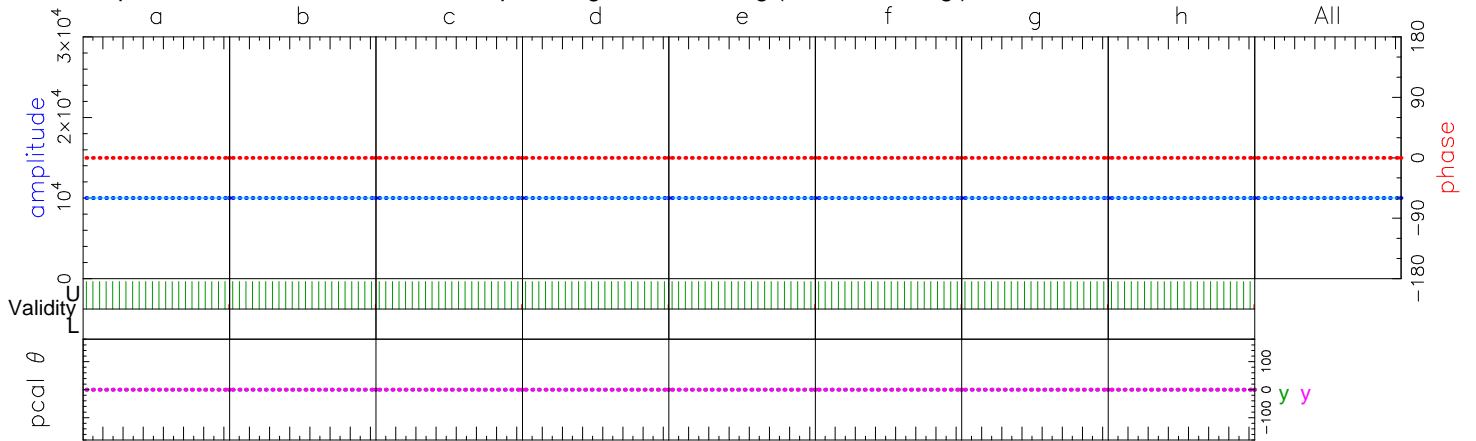
Fringe quality 9

SNR 560324.4  
 Int time 419.840  
 Amp 10000.000  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094501.00  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012721  
 2021:252:122852  
 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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
y	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
y	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
y	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

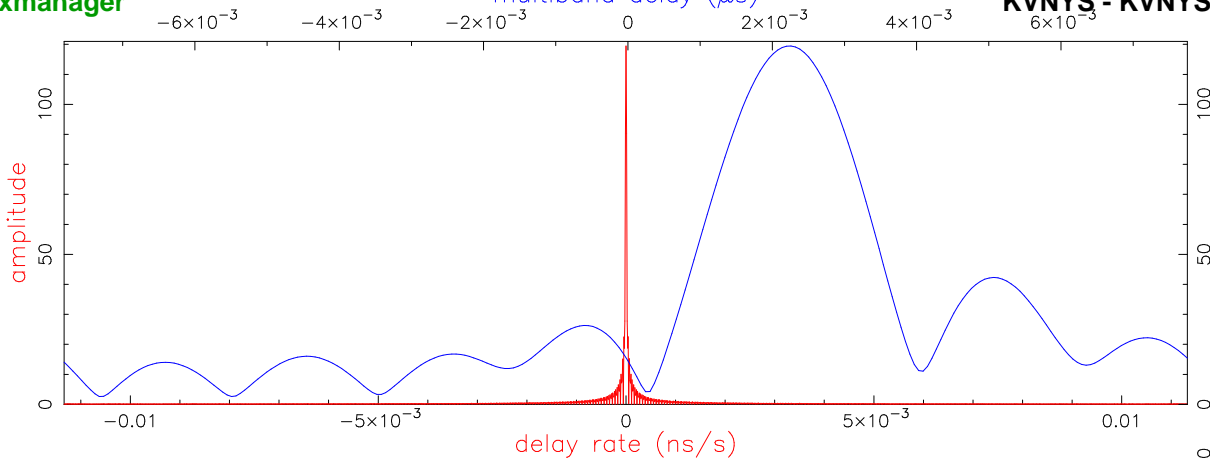
Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09  
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08  
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 6.6E-12  
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.7E-14  
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 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 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

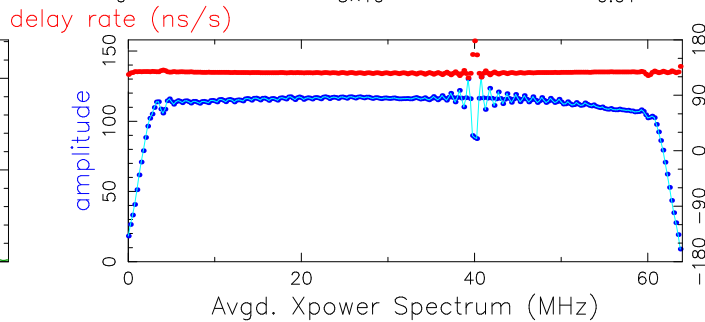
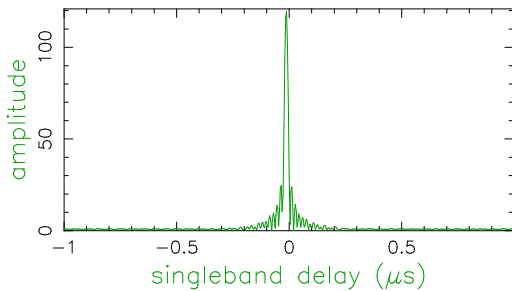
y: az 299.6 el 33.7 pa 66.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yy..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yy.W.119.1W6A0V

multiband delay ( $\mu$ s)

Fringe quality 8

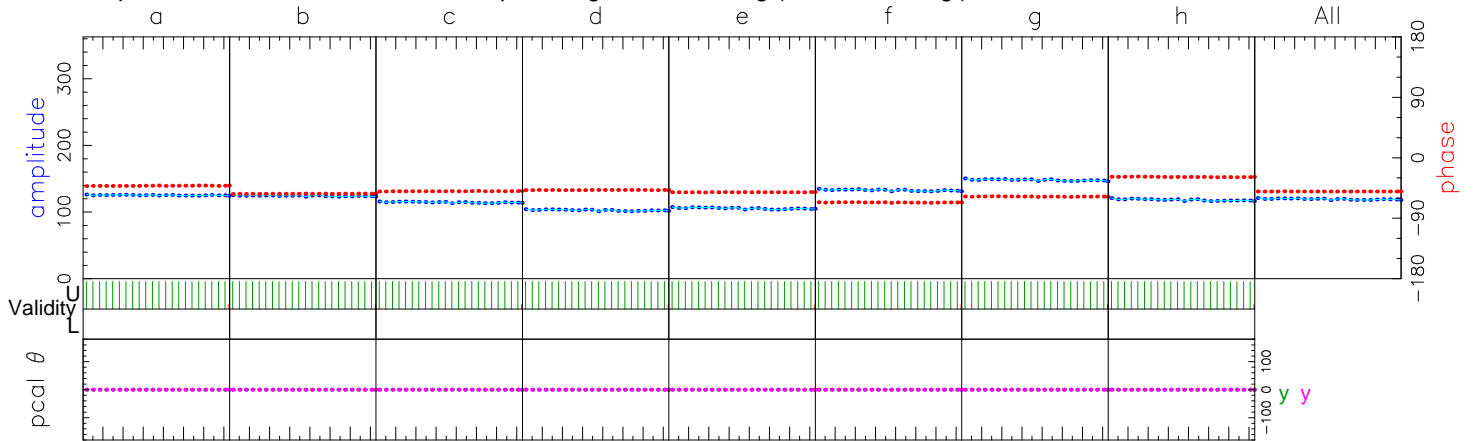


SNR 6779.6  
Int time 419.840  
Amp 120.994  
Phase -50.1  
PFD 0.0e+00  
Delays (us)  
SBD -0.013162  
MBD 0.002238  
Fringe rate (Hz)  
-0.000001  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012725  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-41.7	-53.5	-49.8	-48.0	-51.2	-66.5	-57.7	-28.5		Phase	-50.1
	125.4	124.3	114.7	102.9	105.7	132.9	148.3	118.4		Ampl.	121.6
	253.5	253.5	253.6	253.6	253.4	253.6	253.7	254.2		Sbd box	253.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Chan ids	
										Tracks	
Group delay (usec)(sbd)	-1.33870625000E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.23794E-03	+/-	1.6E-07
Sband delay (usec)	-1.31620000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.31620E-02	+/-	1.3E-06
Phase delay (usec)	-1.61603958786E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.61604E-06	+/-	5.5E-10
Delay rate (us/s)	-1.62968252504E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.62968E-11	+/-	2.2E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-50.1	+/-	0.0

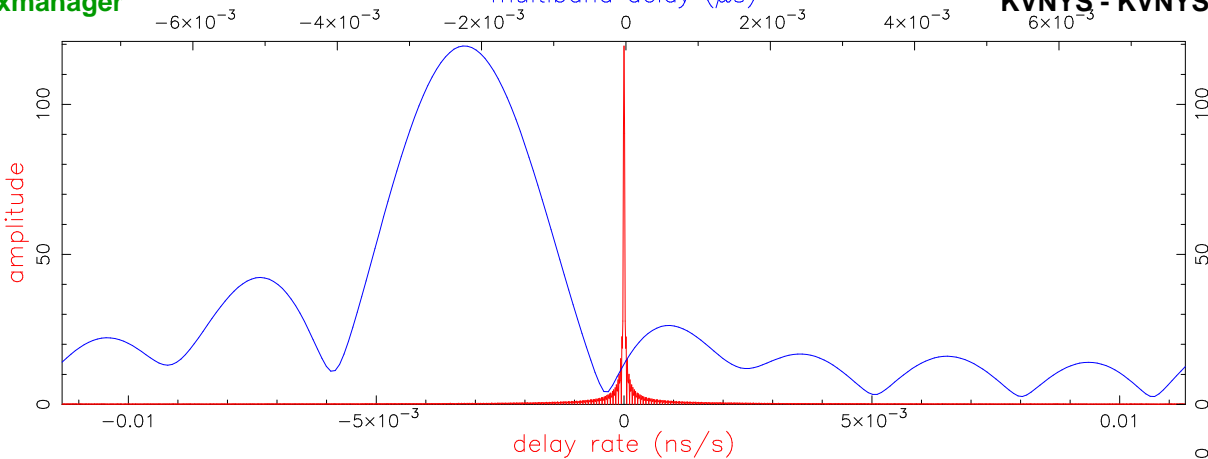
	RMS	Theor.	Amplitude	120.994 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	0.1	0.0	Search (2048X32)	117.296	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	1.5	0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	12.1	0.0	Inc. seg. avg.	119.472	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	11.4	0.0	Inc. frq. avg.	121.559	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

y: az 299.6 el 33.7 pa 66.8      y: az 299.6 el 33.7 pa 66.8      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

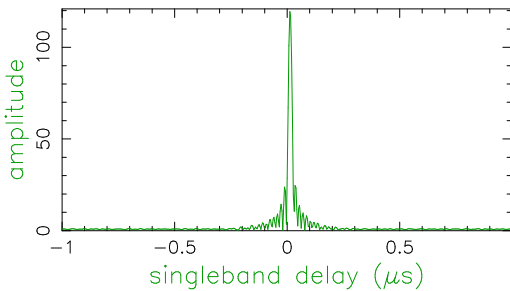
Control file: cf\_1234\_gmva    Input file: /Exps/c211a/v2/1234/No0212/yy..1W6A0V    Output file: /Exps/c211a/v2/1234/No0212/yy.W.138.1W6A0V

multiband delay ( $\mu\text{s}$ )

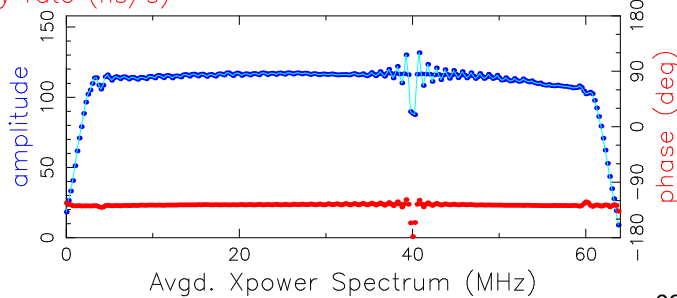
Fringe quality 8



SNR 6779.6  
Int time 419.840  
Amp 120.994  
Phase 50.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.013162  
MBD -0.002238  
Fringe rate (Hz)  
0.000001  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

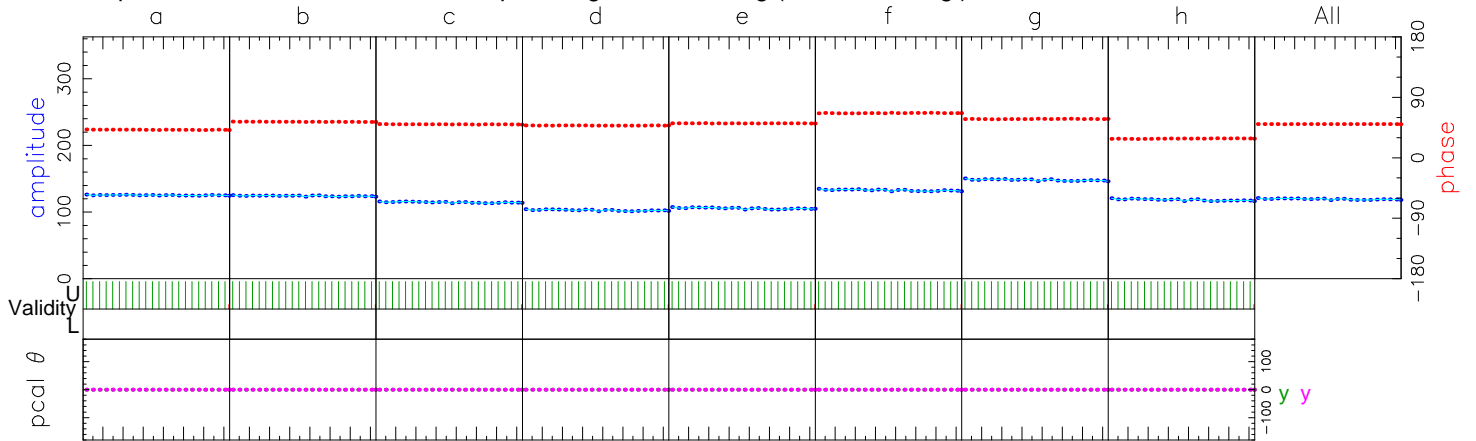


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 094501.00  
Stop 095200.84  
FRT 094831.00  
Corr/FF/build  
2021:286:231157  
2021:287:012728  
2021:252:122852  
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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	41.7	53.5	49.8	48.0	51.2	66.5	57.7	28.5		
Sband delay (usec)	125.4	124.3	114.7	102.9	105.7	132.9	148.3	118.4		
Phase delay (usec)	260.5	260.5	260.4	260.4	260.6	260.4	260.3	259.8		
Delay rate (us/s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total phase (deg)			50.1							
Apriori delay (usec)	1.33870625000E-02				0.00000000000E+00					
Apriori clock (usec)	1.31620000000E-02				0.0000000E+00					
Apriori clockrate (us/s)	1.61603958785E-06				0.0000000E+00					
Apriori rate (us/s)	1.62968252504E-11				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)										

ph/seg (deg) 0.1 0.0  
amp/seg (%) 1.5 0.1  
ph/frq (deg) 12.1 0.0  
amp/frq (%) 11.4 0.0

RMS Theor. Amplitude 120.994 +/- 0.018  
Search (2048X32) 117.296  
Interp. 0.000  
Inc. seg. avg. 119.472  
Inc. frq. avg. 121.559

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
Pcal rate: 0.000E+00, 0.000E+00 (us/s)  
Bits/sample: 2x2 SampCntNorm: enabled  
Sample rate(MISamp/s): 128  
Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite

sb window (us) -1.000 1.000  
mb window (us) -0.008 0.008  
dr window (ns/s) -0.011 0.011  
ion window (TEC) 0.00 0.00

y: az 299.6 el 33.7 pa 66.8  
y: az 299.6 el 33.7 pa 66.8  
u,v (fr/asec) 0.000 0.000  
simultaneous interpolator



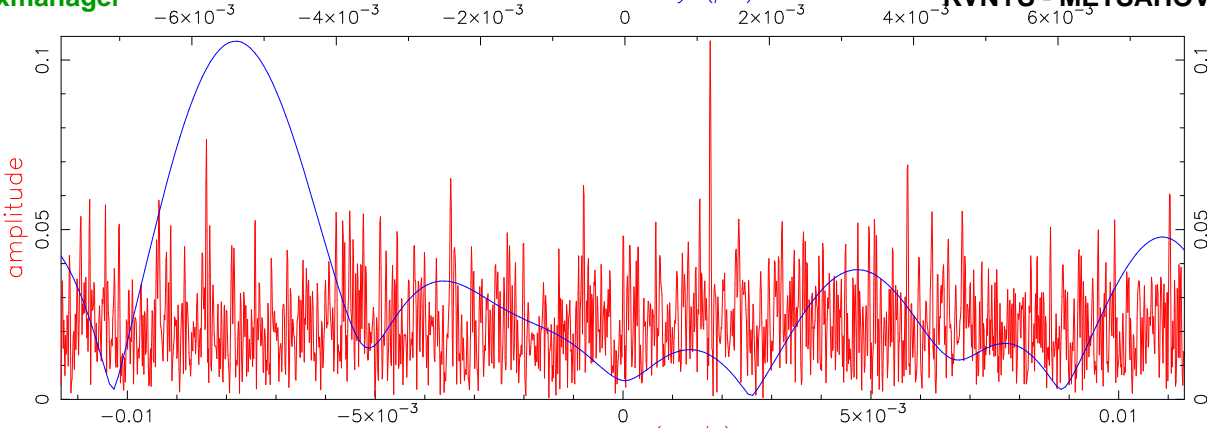
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yZ

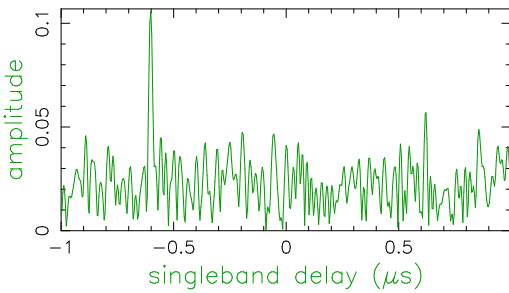
KVNS - METSAHOV, fgroup W, pol LL

multiband delay ( $\mu$ s)

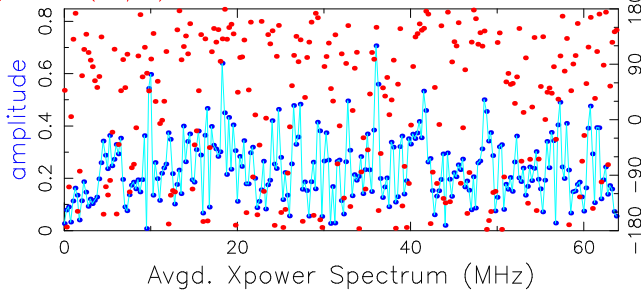


Fringe quality 0

SNR 5.8  
 Int time 405.565  
 Amp 0.107  
 Phase 101.0  
 PFD 7.5e-01  
 Delays (us)  
 SBD -0.602312  
 MBD -0.005391  
 Fringe rate (Hz)  
 0.151890  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

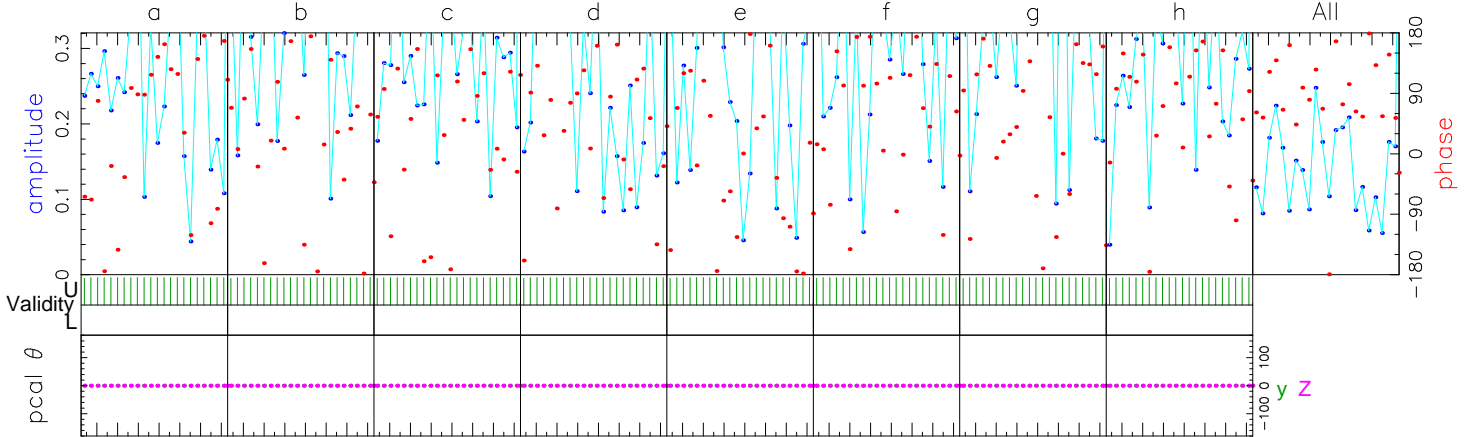


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094514.31  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012722  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd)	-7.79173363880E+03	Apriori delay (usec)	-7.79113449818E+03	Resid mbdelay (usec)	-5.39062E-03	+/-	1.9E-04
Sband delay (usec)	-7.79173680993E+03	Apriori clock (usec)	1.4225712E+00	Resid sbdelay (usec)	-6.02312E-01	+/-	1.5E-03
Phase delay (usec)	-7.79113449492E+03	Apriori clockrate (us/s)	-1.6000000E-08	Resid phdelay (usec)	3.25649E-06	+/-	6.3E-07
Delay rate (us/s)	-1.14965104532E+00	Apriori rate (us/s)	-1.14965280862E+00	Resid rate (us/s)	1.76330E-06	+/-	2.7E-09
Total phase (deg)	-141.3	Apriori accel (us/s/s)	2.20665496478E-05	Resid phase (deg)	101.0	+/-	19.7

ph/seg (deg)	45.4	Theor.	47.1	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	64.6		82.2	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	21.1		27.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	34.0		48.5	Inc. seg. avg.	0.108	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.100	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

y: az 299.6 el 33.7 pa 66.8

Z: az 125.8 el 65.0 pa -32.6

u,v (fr/asec) 8847.585 -274.233

simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yZ..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yZ.W.126.1W6A0V

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

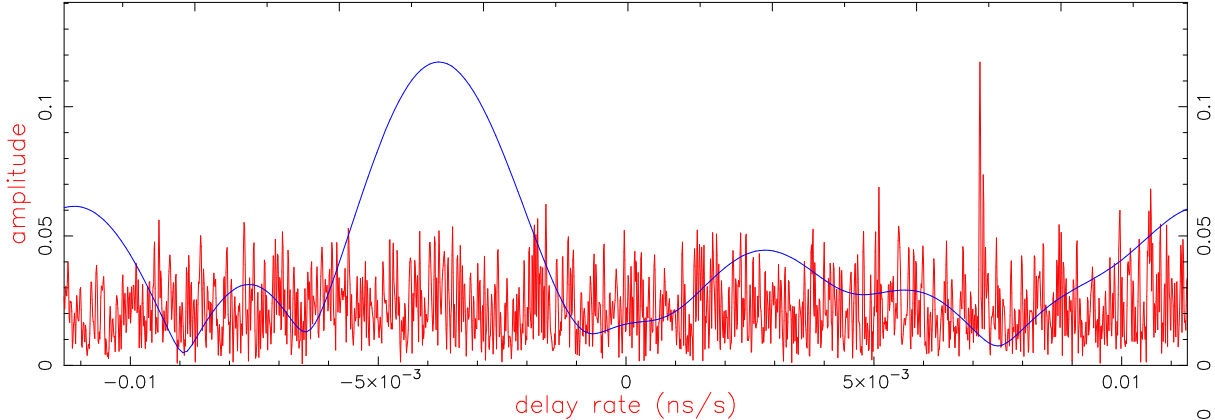
3C84.1W6A0V, No0212, yZ

KVNYS - METSAHOV, fgroup W, pol RR

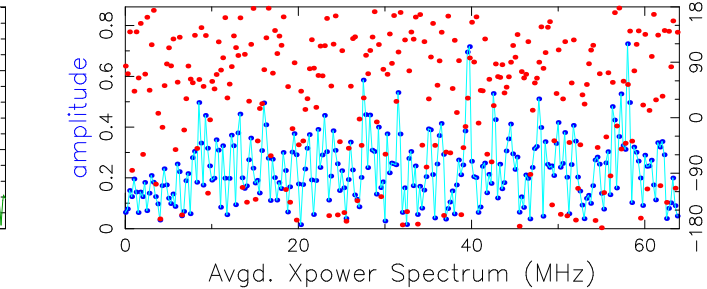
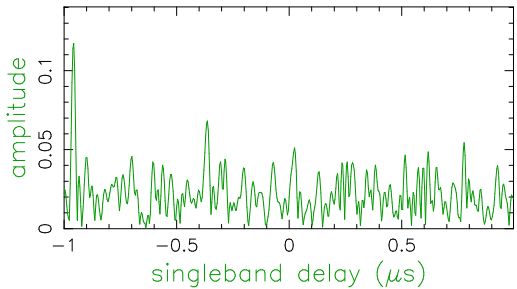
multiband delay ( $\mu\text{s}$ )

$-6 \times 10^{-3}$   $-4 \times 10^{-3}$   $-2 \times 10^{-3}$  0  $2 \times 10^{-3}$   $4 \times 10^{-3}$   $6 \times 10^{-3}$

Fringe quality 0

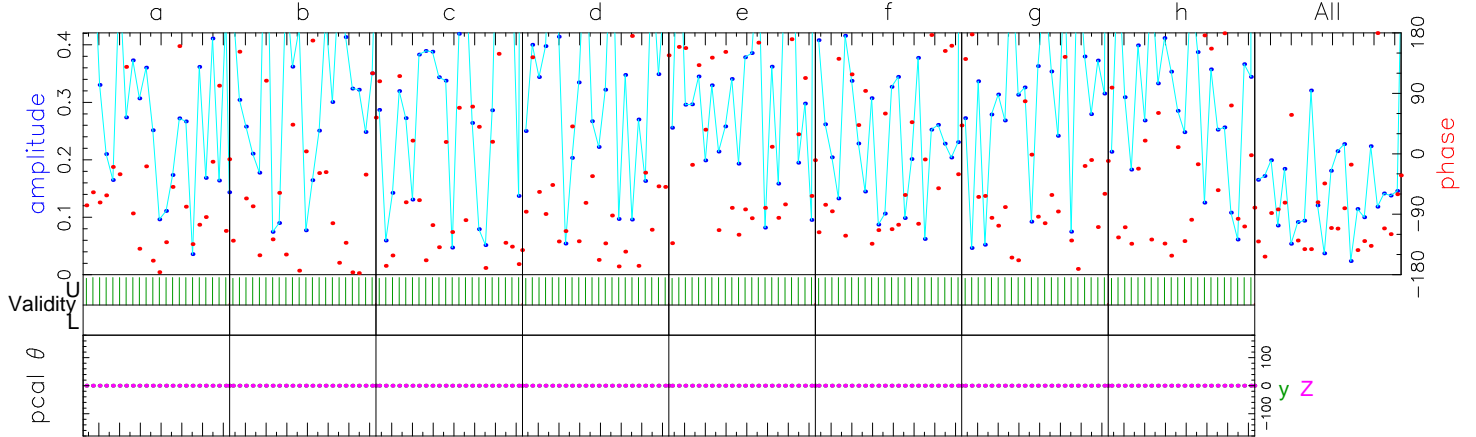


SNR 6.5  
 Int time 405.565  
 Amp 0.140  
 Phase -113.3  
 PFD 1.9e-02  
 Delays (us)  
 SBD -0.958351  
 MBD -0.002604  
 Fringe rate (Hz)  
 0.616392  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094514.31  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012726  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-78.5	-154.1	-146.5	-93.9	-157.1	-117.5	-108.5	-102.3	Phase	-113.3
	0.2	0.1	0.1	0.3	0.1	0.1	0.2	0.1	Ampl.	0.1
	12.9	494.9	130.4	11.3	61.2	357.9	10.5	335.1	Sbd box	11.7
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-7.79209022689E+03	Apriori delay (usec)	-7.79113449818E+03	Resid mbdelay (usec)	-2.60371E-03	+/-	1.7E-04
Sband delay (usec)	-7.79209284918E+03	Apriori clock (usec)	1.4225712E+00	Resid sbdelay (usec)	-9.58351E-01	+/-	1.3E-03
Phase delay (usec)	-7.79113450183E+03	Apriori clockrate (us/s)	-1.6000000E-08	Resid phdelay (usec)	-3.65346E-06	+/-	5.7E-07
Delay rate (us/s)	-1.14964565292E+00	Apriori rate (us/s)	-1.14965280862E+00	Resid rate (us/s)	7.15570E-06	+/-	2.4E-09
Total phase (deg)	-355.6	Apriori accel (us/s/s)	2.20665496478E-05	Resid phase (deg)	-113.3	+/-	17.6

ph/seg (deg)	53.3	Theor.	42.1	Amplitude	0.140 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.3	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	32.8	Inc. seg. avg.	0.134	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	37.0	Inc. frq. avg.	0.143	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
				Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

y: az 299.6 el 33.7 pa 66.8      Z: az 125.8 el 65.0 pa -32.6      u,v (fr/asec) 8847.585 -274.233      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/c211a/v2/1234/No0212/yZ..1W6A0V    Output file: /Exps/c211a/v2/1234/No0212/yZ.W.147.1W6A0V

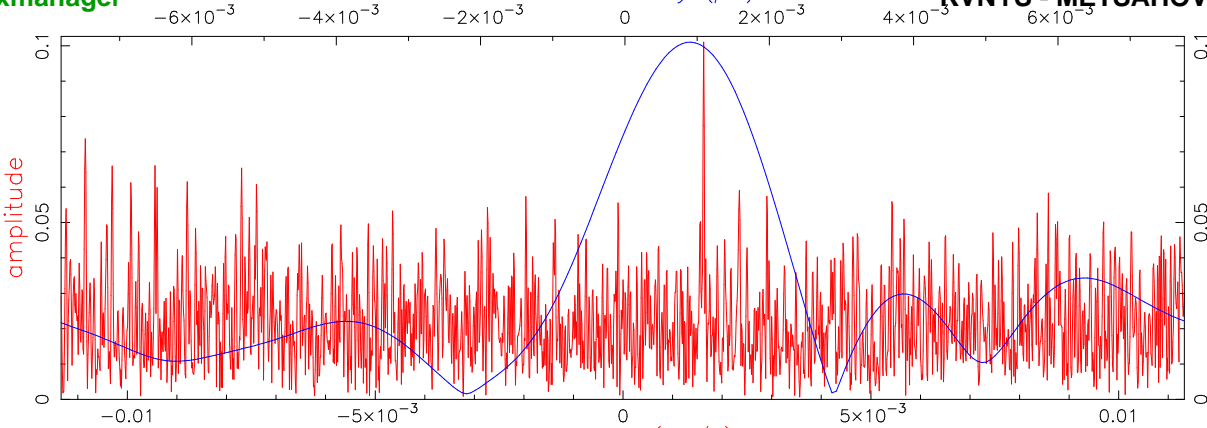
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W6A0V, No0212, yZ

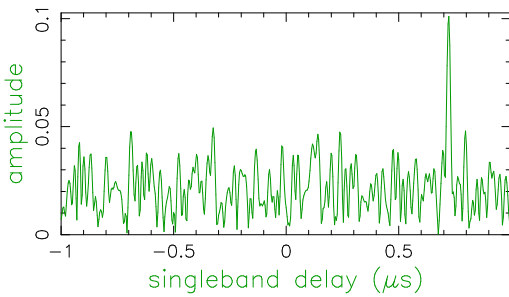
KVNYS - METSAHOV, fgroup W, pol LR

multiband delay ( $\mu$ s)

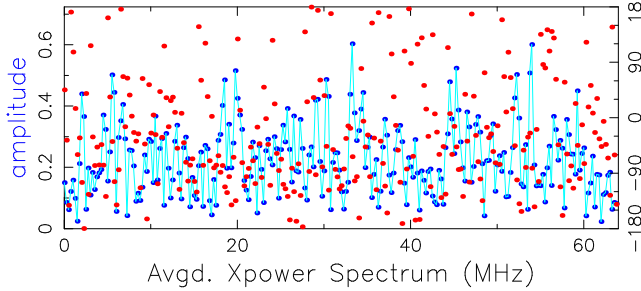


Fringe quality 0

SNR 5.6  
 Int time 405.565  
 Amp 0.103  
 Phase -47.1  
 PFD 9.9e-01  
 Delays (us)  
 SBD 0.721503  
 MBD 0.000894  
 Fringe rate (Hz)  
 0.140194  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

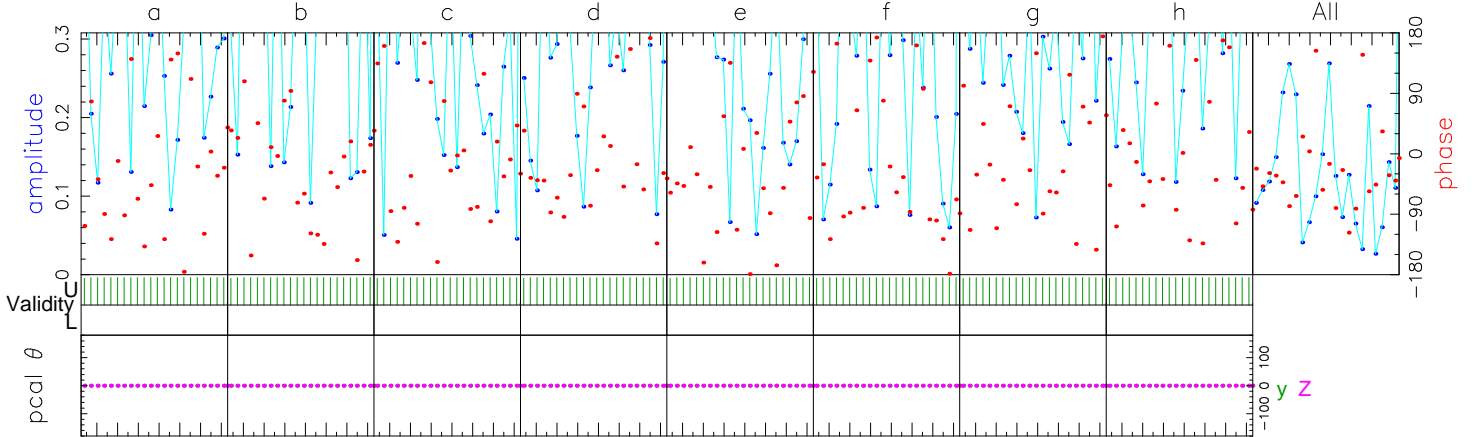


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094514.31  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012729  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.9	-22.0	-70.4	-39.9	-53.8	-79.6	-34.1	-18.9	Phase	-47.1
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	289.8	81.4	227.5	479.6	503.3	169.0	79.1	70.9	Sbd box	441.7
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -7.79041485446E+03 Apriori delay (usec) -7.79113449818E+03 Resid mbdelay (usec) 8.93718E-04 +/- 1.9E-04  
 Sband delay (usec) -7.79041299543E+03 Apriori clock (usec) 1.4225712E+00 Resid sbdelay (usec) 7.21503E-01 +/- 1.5E-03  
 Phase delay (usec) -7.79113449970E+03 Apriori clockrate (us/s) -1.6000000E-08 Resid phdelay (usec) -1.51806E-06 +/- 6.6E-07  
 Delay rate (us/s) -1.14965118111E+00 Apriori rate (us/s) -1.14965280862E+00 Resid rate (us/s) 1.62751E-06 +/- 2.8E-09  
 Total phase (deg) -289.4 Apriori accel (us/s/s) 2.20665496478E-05 Resid phase (deg) -47.1 +/- 20.4

RMS Theor. Amplitude 0.103 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 59.9 49.0 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 77.7 85.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 24.2 28.9 Inc. seg. avg. 0.095 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 33.7 50.5 Inc. frq. avg. 0.096 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

y: az 299.6 el 33.7 pa 66.8 Z: az 125.8 el 65.0 pa -32.6 u,v (fr/asec) 8847.585 -274.233 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yZ..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yZ.W.158.1W6A0V

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

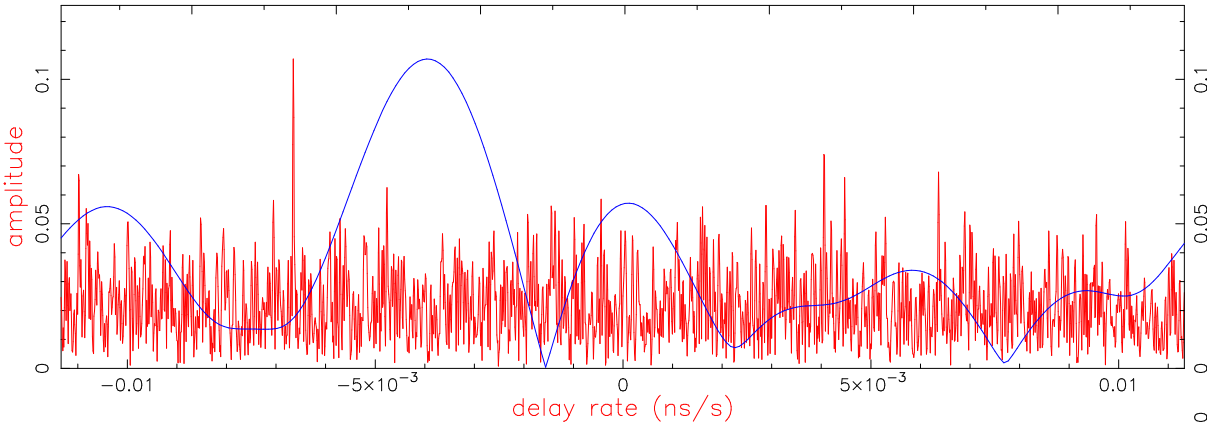
3C84.1W6A0V, No0212, yZ

KVNYS - METSAHOV, fgroup W, pol RL

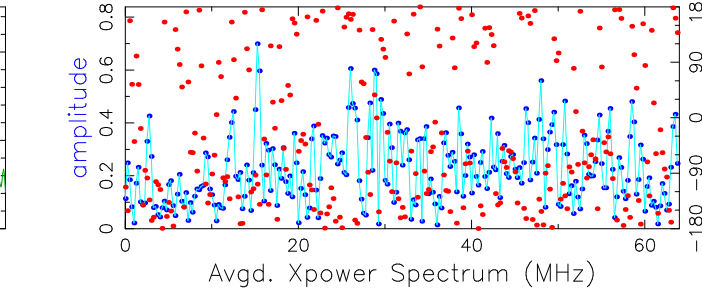
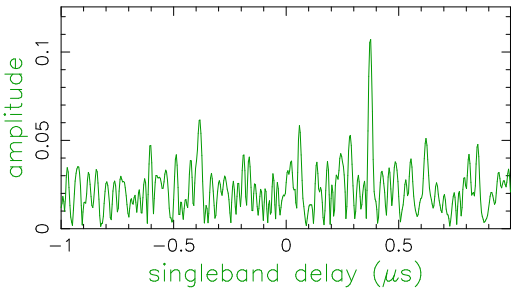
multiband delay ( $\mu$ s)

$-6 \times 10^{-3}$   $-4 \times 10^{-3}$   $-2 \times 10^{-3}$  0  $2 \times 10^{-3}$   $4 \times 10^{-3}$   $6 \times 10^{-3}$

Fringe quality 0

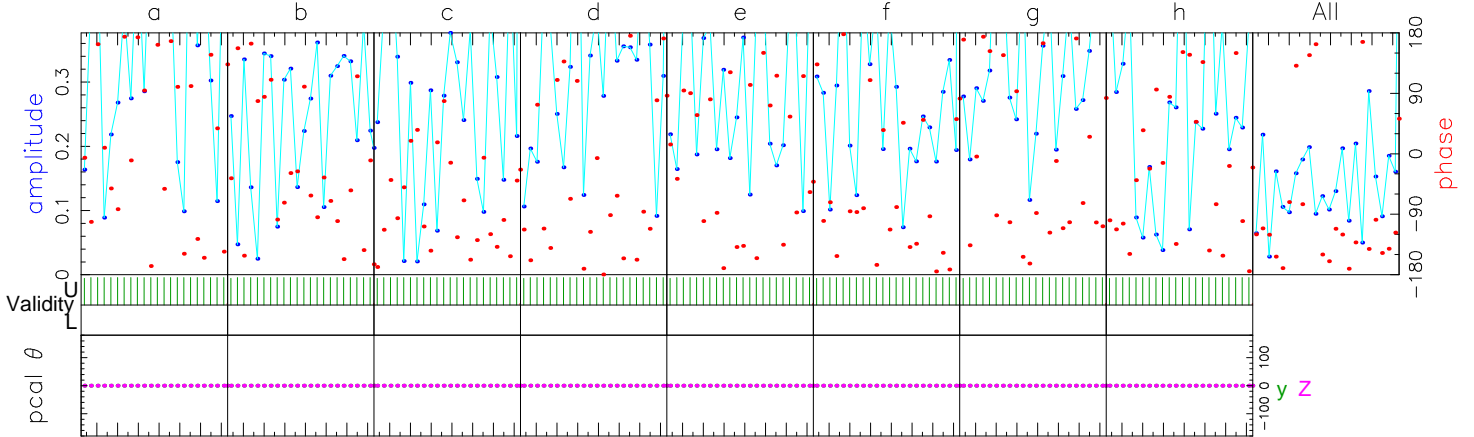


SNR 6.0  
 Int time 405.565  
 Amp 0.126  
 Phase -139.5  
 PFD 4.5e-01  
 Delays (us)  
 SBD 0.373439  
 MBD -0.002739  
 Fringe rate (Hz)  
 -0.574279  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 094514.31  
 Stop 095200.84  
 FRT 094831.00  
 Corr/FF/build  
 2021:286:231157  
 2021:287:012732  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-172.9	-89.7	-101.0	-140.3	150.4	-142.5	-132.1	-147.8	Phase	-139.5
	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	Ampl.	0.1
	8.2	327.4	160.2	162.1	157.8	231.2	352.2	364.9	Sbd box	352.6
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.79076223743E+03		Apriori delay (usec)		-7.79113449818E+03		Resid mbdelay (usec)		-2.73926E-03	+/- 1.8E-04
Sband delay (usec)	-7.79076105943E+03		Apriori clock (usec)		1.4225712E+08		Resid sbdelay (usec)		3.73439E-01	+/- 1.4E-03
Phase delay (usec)	-7.79113450267E+03		Apriori clockrate (us/s)		-1.6000000E-08		Resid phdelay (usec)		-4.49710E-06	+/- 6.2E-07
Delay rate (us/s)	-1.14965947543E+00		Apriori rate (us/s)		-1.14965280862E+00		Resid rate (us/s)		-6.66681E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.20665496478E-05		Resid phase (deg)		-139.5	+/- 19.2

ph/seg (deg) 41.3 46.0 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 68.4 80.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 41.1 27.1 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 37.2 47.4 Inc. frq. avg. 0.127 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 y: az 299.6 el 33.7 pa 66.8 Z: az 125.8 el 65.0 pa -32.6 u,v (fr/asec) 8847.585 -274.233 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0212/yZ..1W6A0V Output file: /Exps/c211a/v2/1234/No0212/yZ.W.163.1W6A0V simultaneous interpolator