

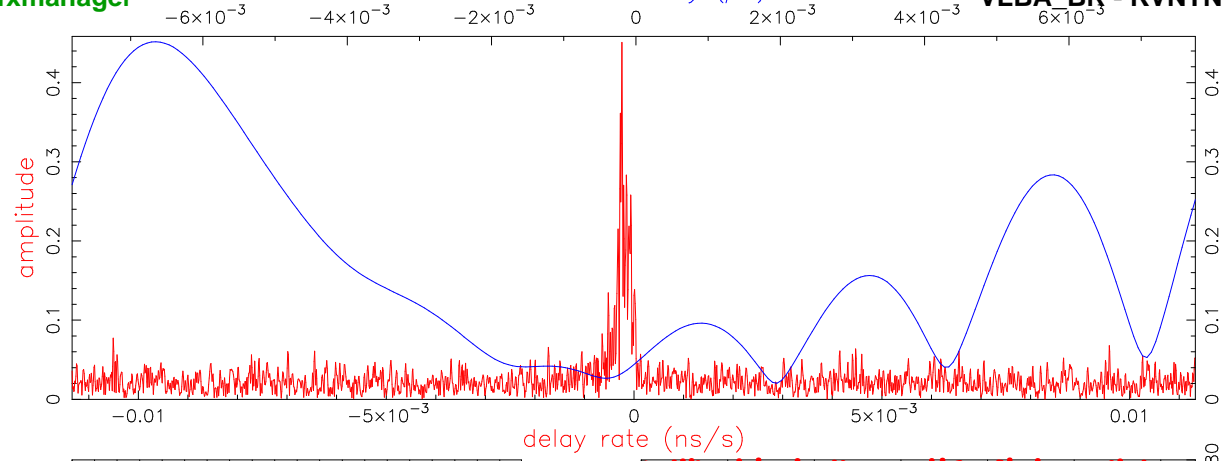
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bt

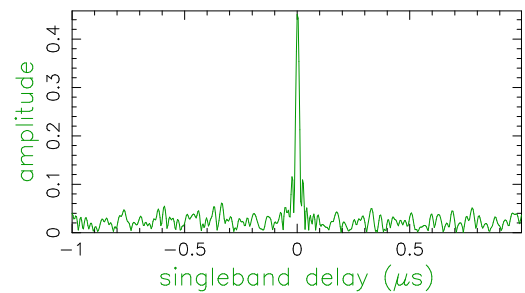
VLBA\_BR - KVNTN, fgroup W, pol LL

multiband delay ( $\mu$ s)

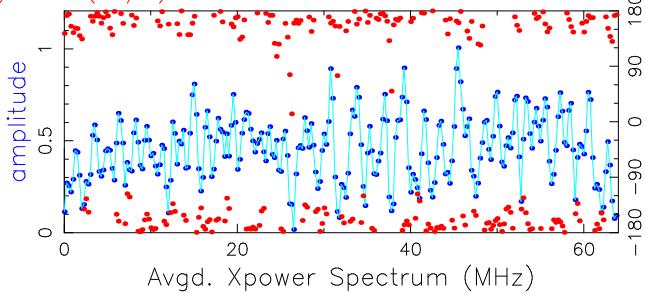


Fringe quality 6

SNR 25.7  
 Int time 419.832  
 Amp 0.458  
 Phase -86.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.001612  
 MBD -0.006574  
 Fringe rate (Hz)  
 -0.020985  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

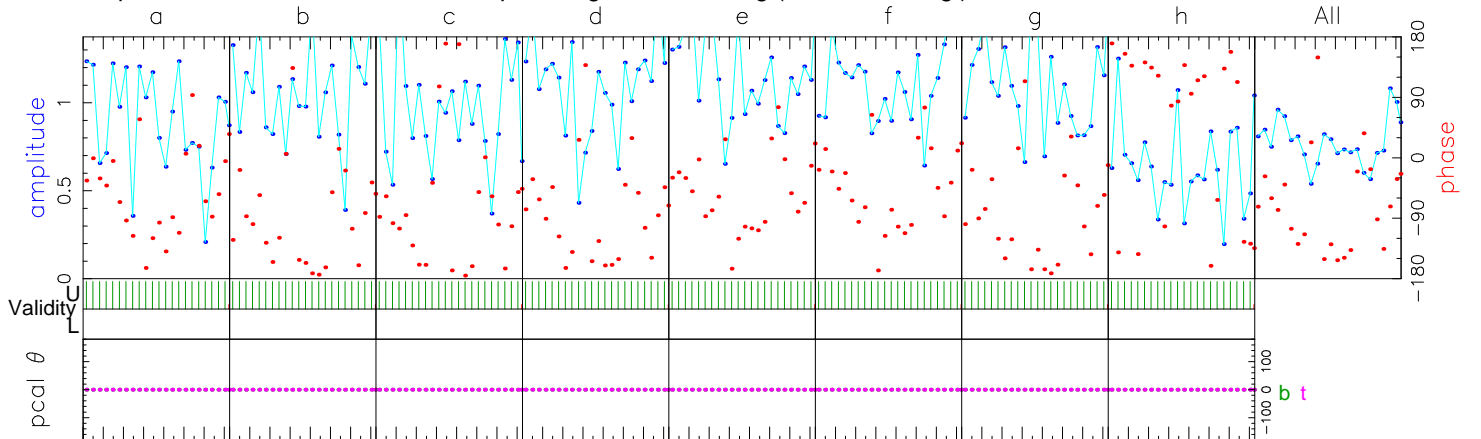


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012748  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:t	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 1.08555646408E+03 Apriori delay (usec) 1.08554741269E+03 Resid mbdelay (usec) -6.57362E-03 +/- 4.2E-05  
 Sband delay (usec) 1.08554902494E+03 Apriori clock (usec) -2.7039776E+00 Resid sbdelay (usec) 1.61225E-03 +/- 3.4E-04  
 Phase delay (usec) 1.08554740992E+03 Apriori clockrate (us/s) 9.999998E-08 Resid phdelay (usec) -2.77230E-06 +/- 1.4E-07  
 Delay rate (us/s) -1.94889440232E+00 Apriori rate (us/s) -1.94889415870E+00 Resid rate (us/s) -2.43619E-07 +/- 5.9E-10  
 Total phase (deg) -39.4 Apriori accel (us/s/s) -8.05913192590E-06 Resid phase (deg) -86.0 +/- 4.5

ph/seg (deg) 61.6 10.7 Theor. Amplitude 0.458 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 74.6 18.7 Search (2048X32) 0.443 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 56.8 6.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 36.6 11.0 Inc. seg. avg. 0.761 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 0.576 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 11211.008 1803.821 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bt.W.16.1W6AM6

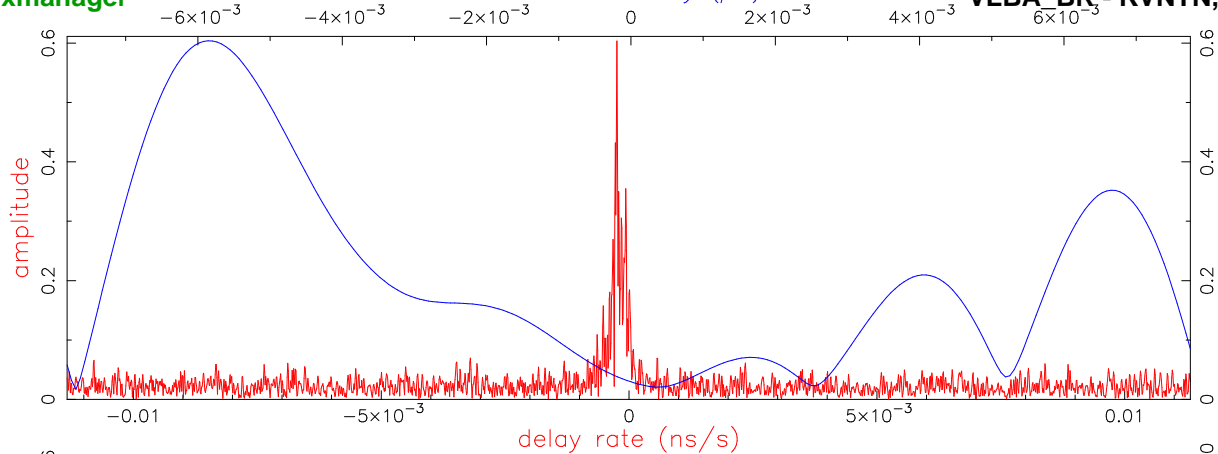
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bt

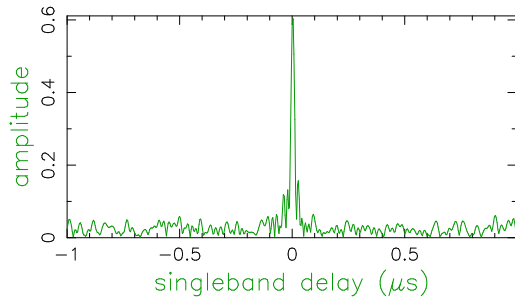
VLBA\_BR - KVNTN, fgroup W, pol RR

multiband delay ( $\mu$ s)



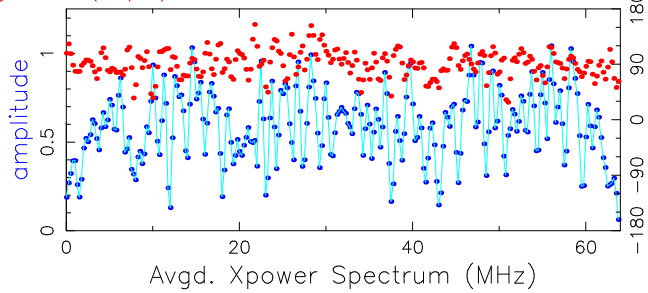
Fringe quality 4

SNR 34.2  
 Int time 419.832  
 Amp 0.611  
 Phase -171.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.002490  
 MBD -0.005903  
 Fringe rate (Hz)  
 -0.020989  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



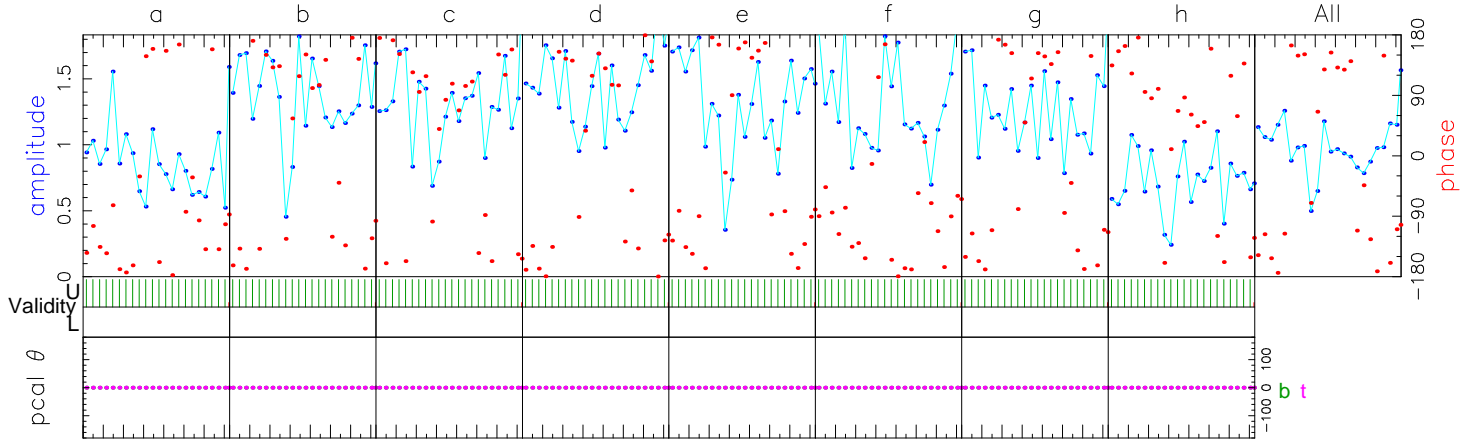
singleband delay ( $\mu$ s)

delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012752  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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
	-144.0	170.3	149.7	176.6	-145.1	-112.7	-168.1	119.4	Phase	-171.6
	0.6	0.8	0.8	0.9	0.8	0.8	0.7	0.4	Ampl.	0.7
	255.9	257.7	257.8	257.8	258.2	257.3	256.9	255.4	Sbd box	257.6
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	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.08555713429E+03		Apriori delay (usec)		1.08554741269E+03		Resid mbdelay (usec)		-5.90340E-03	+/- 3.2E-05
Sband delay (usec)	1.08554990269E+03		Apriori clock (usec)		-2.7039776E+00		Resid sbdelay (usec)		2.49000E-03	+/- 2.5E-04
Phase delay (usec)	1.08554740716E+03		Apriori clockrate (us/s)		9.9999998E-08		Resid phdelay (usec)		-5.53275E-06	+/- 1.1E-07
Delay rate (us/s)	-1.94889440236E+00		Apriori rate (us/s)		-1.94889415870E+00		Resid rate (us/s)		-2.43656E-07	+/- 4.5E-10
Total phase (deg)			Apriori accel (us/s/s)		-8.05913192590E-06		Resid phase (deg)		-171.6	+/- 3.3

ph/seg (deg) 59.5 8.0 Search (2048X32) 0.600 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 66.4 14.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 44.1 4.7 Inc. seg. avg. 0.965 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 31.2 8.3 Inc. frq. avg. 0.729 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 233.2 el 21.2 pa 32.5 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 11211.008 1803.821 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bt.W.36.1W6AM6

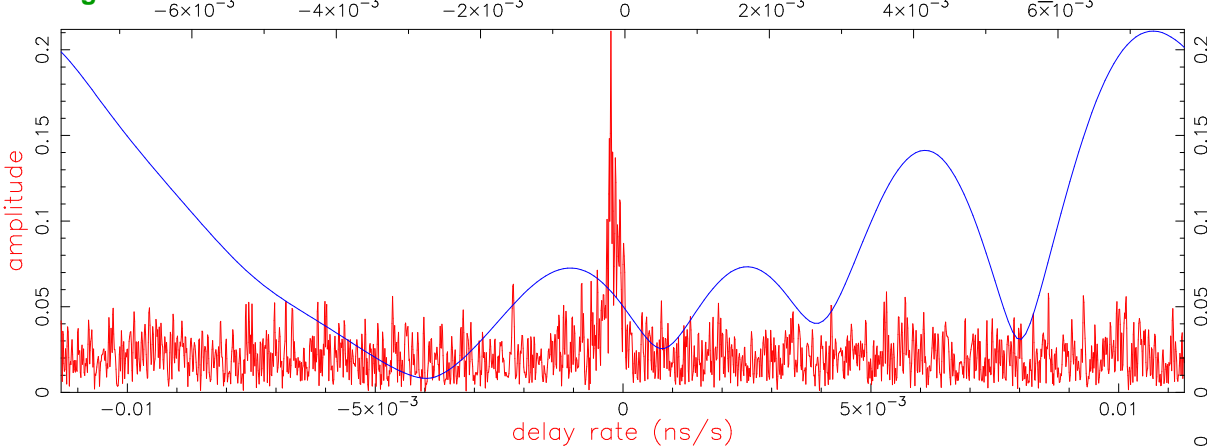
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bt

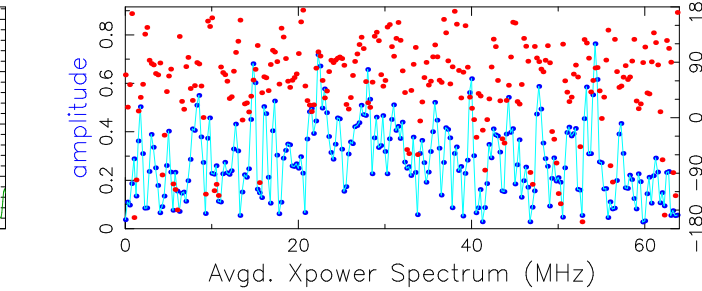
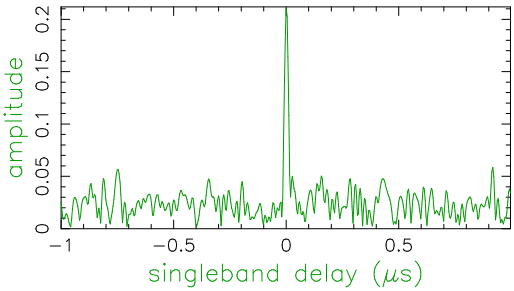
VLBA\_BR - KVNTN, fgroup W, pol LR

multiband delay ( $\mu$ s)



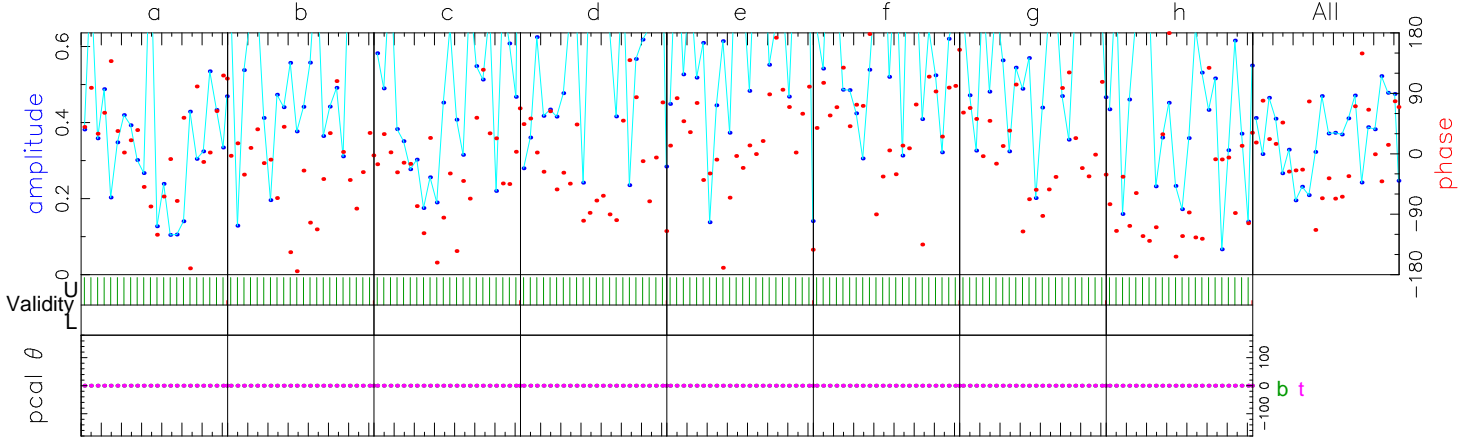
Fringe quality 9

SNR 11.9  
 Int time 419.832  
 Amp 0.212  
 Phase 1.5  
 PFD 8.2e-24  
 Delays (us)  
 SBD 0.000969  
 MBD 0.007349  
 Fringe rate (Hz)  
 -0.021002  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012757  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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			
t	1000	1000	1000	1000	1000	1000	1000	1000			
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:t	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			
t	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.08555476161E+03				1.08554741269E+03			Resid mbdelay (usec)	7.34891E-03	+/- 9.1E-05
Sband delay (usec)		1.08554838144E+03				-2.7039776E+00			Resid sbdelay (usec)	9.68750E-04	+/- 7.3E-04
Phase delay (usec)		1.08554741274E+03				9.9999998E-08			Resid phdelay (usec)	4.87204E-08	+/- 3.1E-07
Delay rate (us/s)		-1.94889440251E+00				-1.94889415870E+00			Resid rate (us/s)	-2.43815E-07	+/- 1.3E-09
Total phase (deg)			48.1			-8.05913192590E-06			Resid phase (deg)	1.5	+/- 9.7

	RMS	Theor.	Amplitude	0.212 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	62.1	23.1	Search (2048X32)	0.210	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	85.7	40.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	52.3	13.6	Inc. seg. avg.	0.340	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	43.0	23.8	Inc. frq. avg.	0.274	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 233.2 el 21.2 pa 32.5 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 11211.008 1803.821 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bt.W.61.1W6AM6



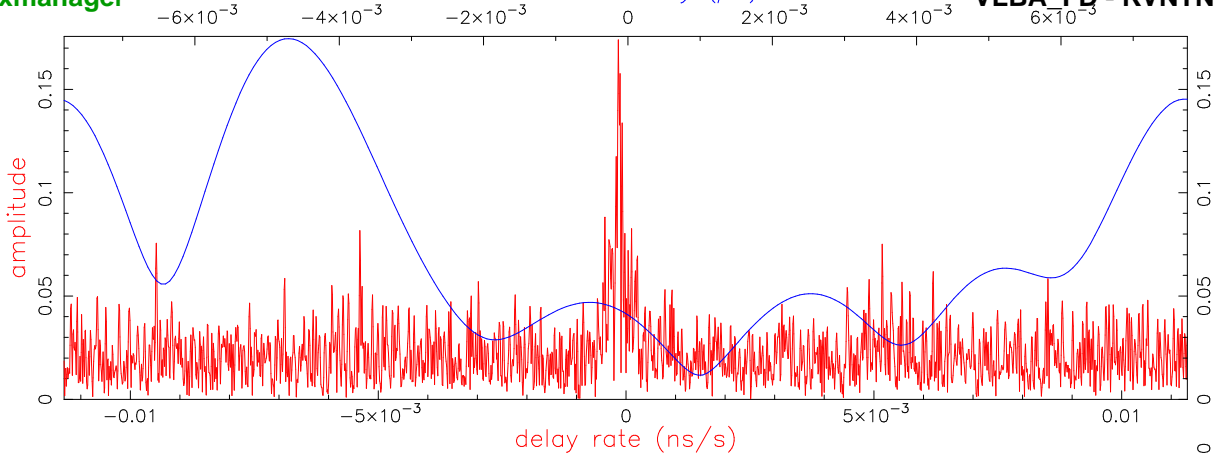
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, ft

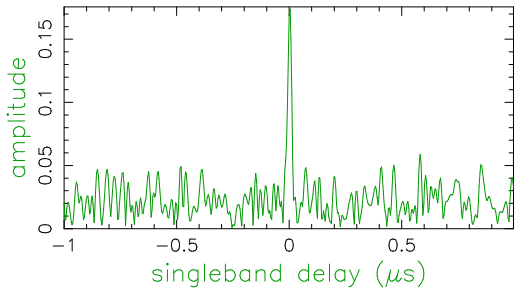
VLBA\_FD - KVNTN, fgroup W, pol LL

multiband delay ( $\mu$ s)

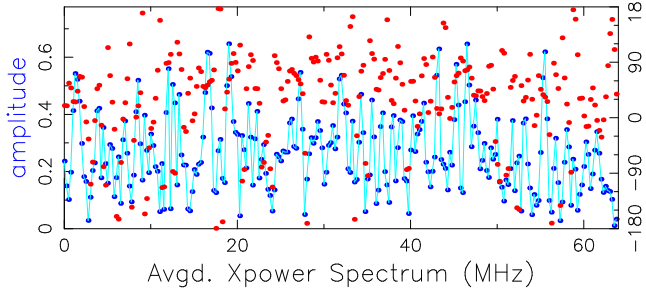


Fringe quality 9

SNR 9.7  
Int time 410.693  
Amp 0.176  
Phase 137.9  
PFD 9.0e-14  
Delays (us)  
SBD 0.002605  
MBD -0.004805  
Fringe rate (Hz)  
-0.012995  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

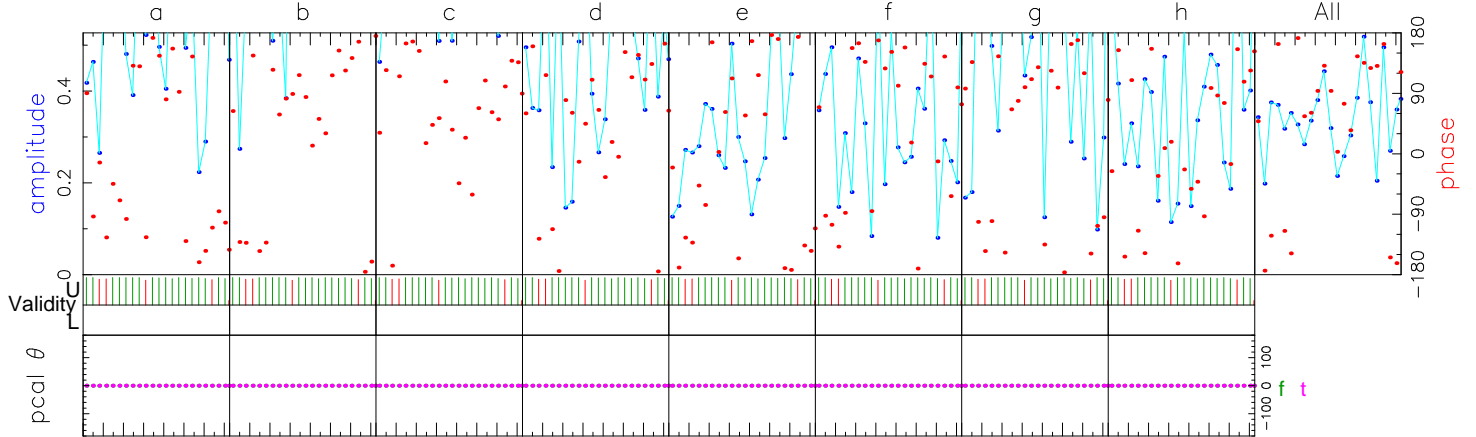


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012748  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
-5°47'21.525129"

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
	-145.3	121.2	91.0	112.5	-171.8	156.1	155.7	122.7	Phase	137.9
	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	255.2	257.1	258.2	258.2	259.0	259.1	257.7	142.8	Sbd box	257.7
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ft	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.40416368876E+01		Apriori delay (usec)		5.40464419285E+01		Resid mbdelay (usec)		-4.80504E-03	+/- 1.1E-04
Sband delay (usec)	5.40490469285E+01		Apriori clock (usec)		1.0499454E+01		Resid sbdelay (usec)		2.60500E-03	+/- 8.9E-04
Phase delay (usec)	5.40464463758E+01		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		4.44733E-06	+/- 3.8E-07
Delay rate (us/s)	-2.37124740001E+00		Apriori rate (us/s)		-2.37124724915E+00		Resid rate (us/s)		-1.50860E-07	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.22798213158E-07		Resid phase (deg)		137.9	+/- 11.8

ph/seg (deg) 66.7 28.1 Search (2048X32) 0.166 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 102.9 49.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 45.5 16.6 Inc. seg. avg. 0.301 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 63.8 29.1 Inc. frq. avg. 0.215 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
f: az 251.1 el 18.5 pa 55.2 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13651.425 -332.186 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ft..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ft.W.18.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

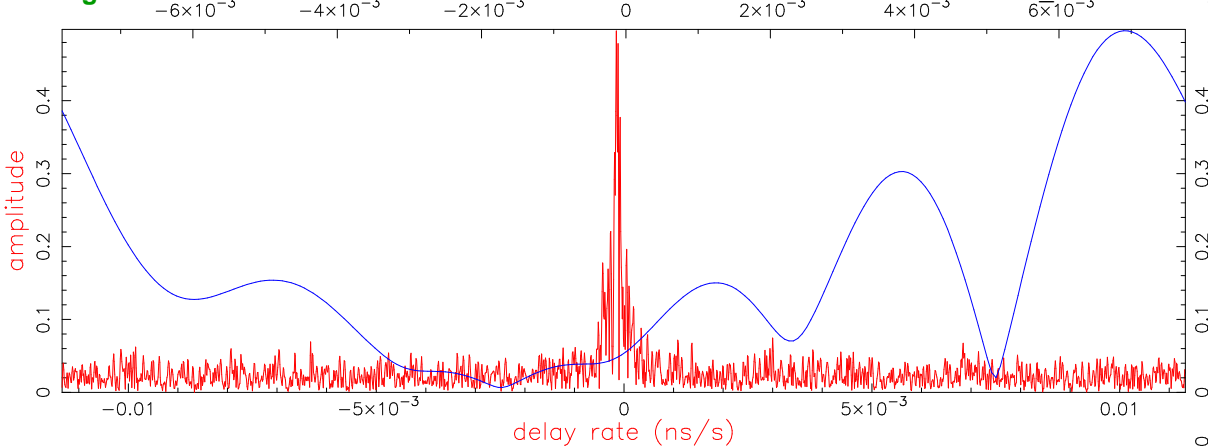
fxmanager

3C279.1W6AM6, No0213, ft

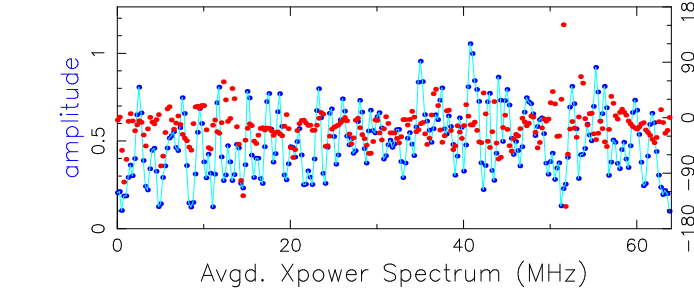
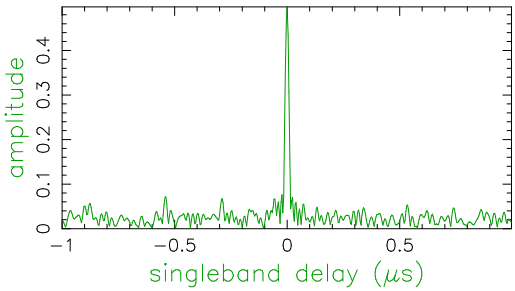
VLBA\_FD - KVNTN, fgroup W, pol RR

multiband delay ( $\mu$ s)

Fringe quality 6

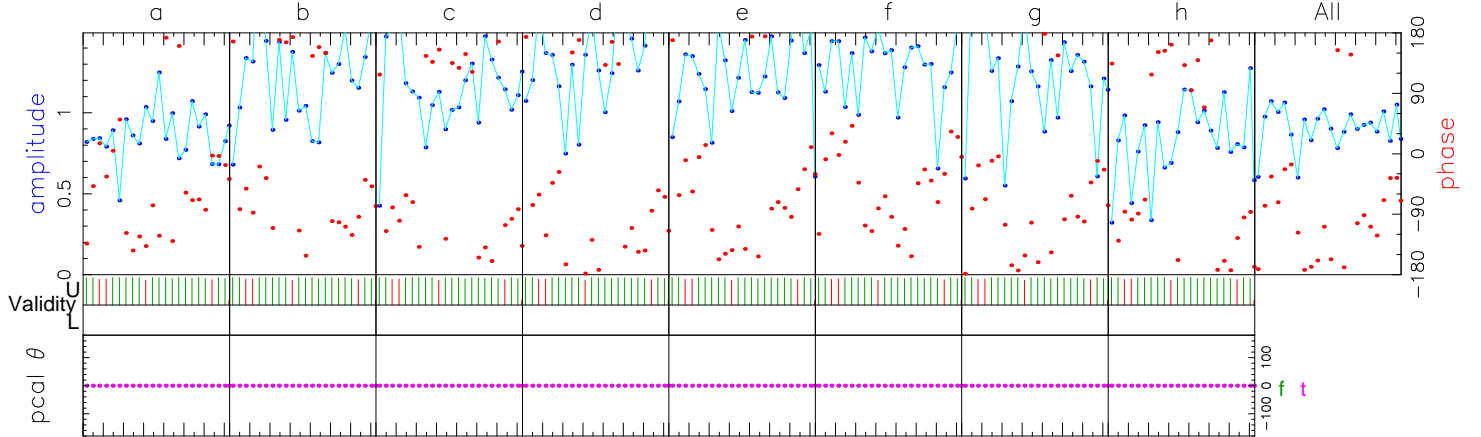


SNR 27.6  
 Int time 410.693  
 Amp 0.498  
 Phase -105.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000853  
 MBD 0.006875  
 Fringe rate (Hz)  
 -0.013088  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012753  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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
	-83.2	-106.8	-147.0	-129.5	-90.1	-48.0	-93.5	-166.7	Phase	-105.6
	0.5	0.6	0.6	0.7	0.6	0.7	0.6	0.4	Ampl.	0.6
	255.0	257.0	257.3	256.9	257.0	256.9	256.2	254.5	Sbd box	256.8
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ft	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.40533172938E+01		Apriori delay (usec)		5.40464419285E+01		Resid mbdelay (usec)		6.87537E-03	+/- 3.9E-05
Sband delay (usec)	5.40455886785E+01		Apriori clock (usec)		1.0499454E+01		Resid sbdelay (usec)		-8.53250E-04	+/- 3.1E-04
Phase delay (usec)	5.40464385224E+01		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-3.40611E-06	+/- 1.3E-07
Delay rate (us/s)	-2.37124740109E+00		Apriori rate (us/s)		-2.37124724915E+00		Resid rate (us/s)		-1.51944E-07	+/- 5.6E-10
Total phase (deg)	77.2		Apriori accel (us/s/s)		2.22798213158E-07		Resid phase (deg)		-105.6	+/- 4.2

	RMS	Theor.	Amplitude	0.498 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	59.3	9.9	Search (2048X32)	0.482	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	86.3	17.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.3	5.9	Inc. seg. avg.	0.896	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	29.3	10.3	Inc. frq. avg.	0.595	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

f: az 251.1 el 18.5 pa 55.2 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13651.425 -332.186 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ft..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ft.W.39.1W6AM6

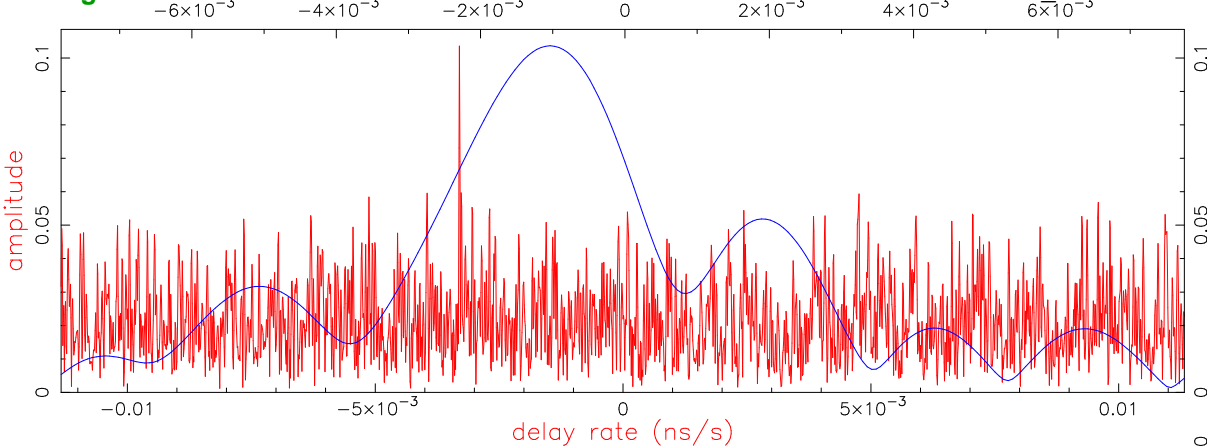
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, ft

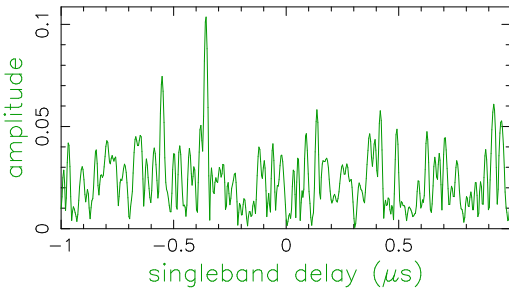
VLBA\_FD - KVNTN, fgroup W, pol LR

multiband delay ( $\mu$ s)

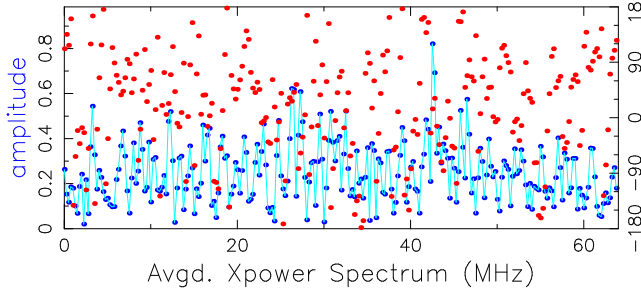


Fringe quality 0

SNR 5.8  
 Int time 410.693  
 Amp 0.109  
 Phase -100.7  
 PFD 7.9e-01  
 Delays (us)  
 SBD -0.356899  
 MBD -0.001087  
 Fringe rate (Hz)  
 -0.284338  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

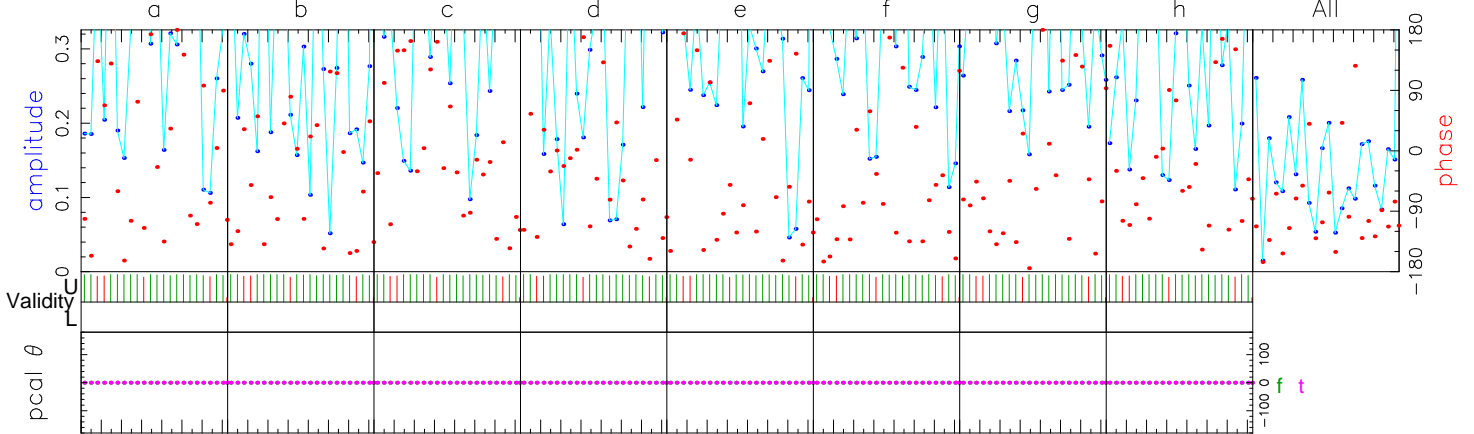


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012757  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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
	-162.4	-53.1	-62.4	-91.7	-130.3	-118.7	-103.1	-78.1	Phase	-100.7
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	336.2	250.3	290.8	315.8	302.4	160.9	70.2	369.8	Sbd box	165.6
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ft	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.36859798116E+01		Apriori delay (usec)		5.40464419285E+01		Resid mbdelay (usec)		-1.08712E-03	+/- 1.9E-04
Sband delay (usec)	5.36895429285E+01		Apriori clock (usec)		1.0499454E+01		Resid sbdelay (usec)		-3.56899E-01	+/- 1.5E-03
Phase delay (usec)	5.40464386816E+01		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-3.24695E-06	+/- 6.4E-07
Delay rate (us/s)	-2.37125055004E+00		Apriori rate (us/s)		-2.37124724915E+00		Resid rate (us/s)		-3.30089E-06	+/- 2.6E-09
Total phase (deg)	82.1		Apriori accel (us/s/s)		2.22798213158E-07		Resid phase (deg)		-100.7	+/- 19.7

	RMS	Theor.	Amplitude	0.109 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	59.4	47.1	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	81.0	82.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	39.5	27.9	Inc. seg. avg.	0.109	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	36.1	48.7	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

f: az 251.1 el 18.5 pa 55.2 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13651.425 -332.186 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ft..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ft.W.59.1W6AM6

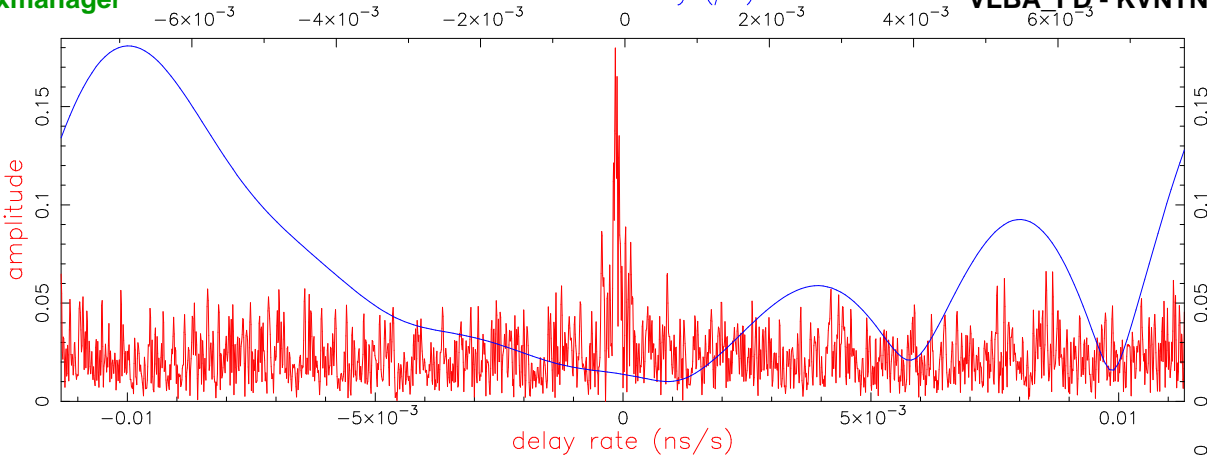
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, ft

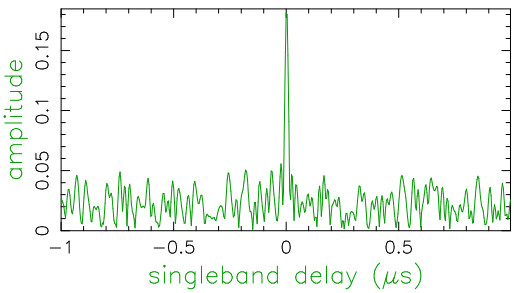
VLBA\_FD - KVNTN, fgroup W, pol RL

multiband delay ( $\mu$ s)

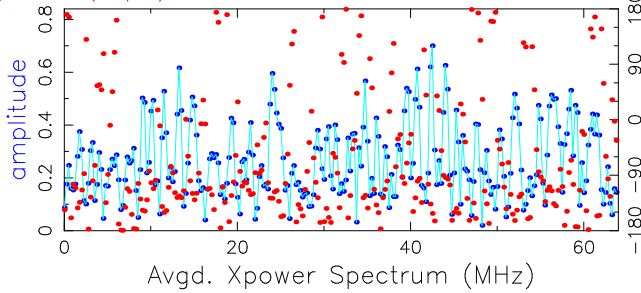


Fringe quality 9

SNR 10.2  
 Int time 410.693  
 Amp 0.185  
 Phase -22.2  
 PFD 6.0e-16  
 Delays (us)  
 SBD 0.001847  
 MBD -0.007023  
 Fringe rate (Hz)  
 -0.013232  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

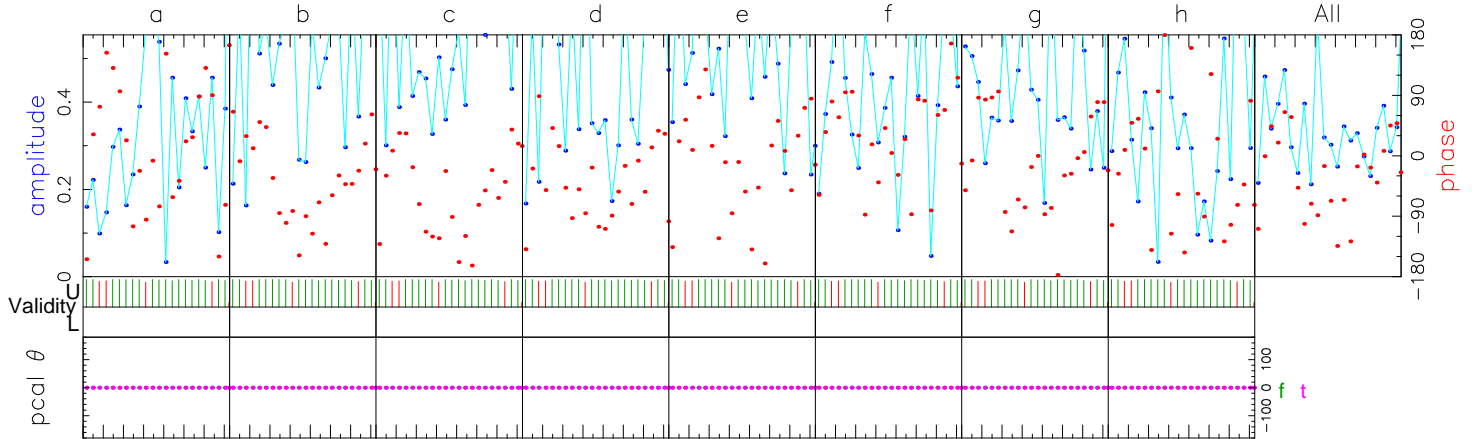


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012801  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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



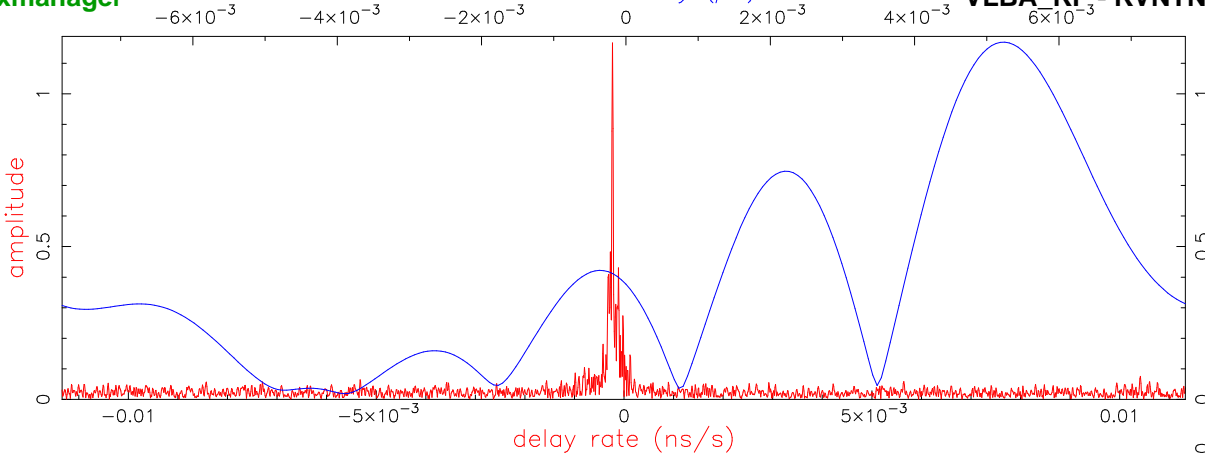
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-6.7	-32.3	-54.1	-26.4	7.7	50.8	-22.6	-76.9	Phase	-22.2
	0.1	0.3	0.3	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
	254.8	256.8	257.6	257.8	257.7	257.5	257.5	255.3	Sbd box	257.5
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ft	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.40550434813E+01		Apriori delay (usec)		5.40464419285E+01		Resid mbdelay (usec)		-7.02345E-03	+/- 1.1E-04
Sband delay (usec)	5.40482894285E+01		Apriori clock (usec)		1.0499454E+01		Resid sbdelay (usec)		1.84750E-03	+/- 8.4E-04
Phase delay (usec)	5.40464412122E+01		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-7.16334E-07	+/- 3.6E-07
Delay rate (us/s)	-2.37124740276E+00		Apriori rate (us/s)		-2.37124724915E+00		Resid rate (us/s)		-1.53609E-07	+/- 1.5E-09
Total phase (deg)	160.6		Apriori accel (us/s/s)		2.22798213158E-07		Resid phase (deg)		-22.2	+/- 11.2

ph/seg (deg) 60.4 26.7 Search (2048X32) 0.179 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 94.9 46.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 42.0 15.8 Inc. seg. avg. 0.301 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 47.2 27.6 Inc. frq. avg. 0.207 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 f: az 251.1 el 18.5 pa 55.2 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13651.425 -332.186 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ft..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ft.W.77.1W6AM6

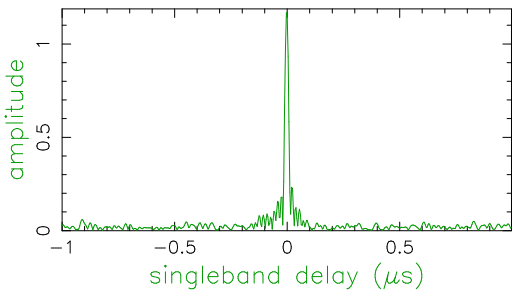


multiband delay ( $\mu$ s)

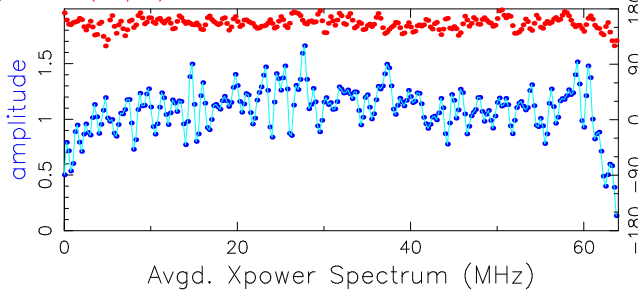
Fringe quality 3



SNR 66.5  
Int time 419.533  
Amp 1.188  
Phase 69.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.002194  
MBD 0.005310  
Fringe rate (Hz)  
-0.019617  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

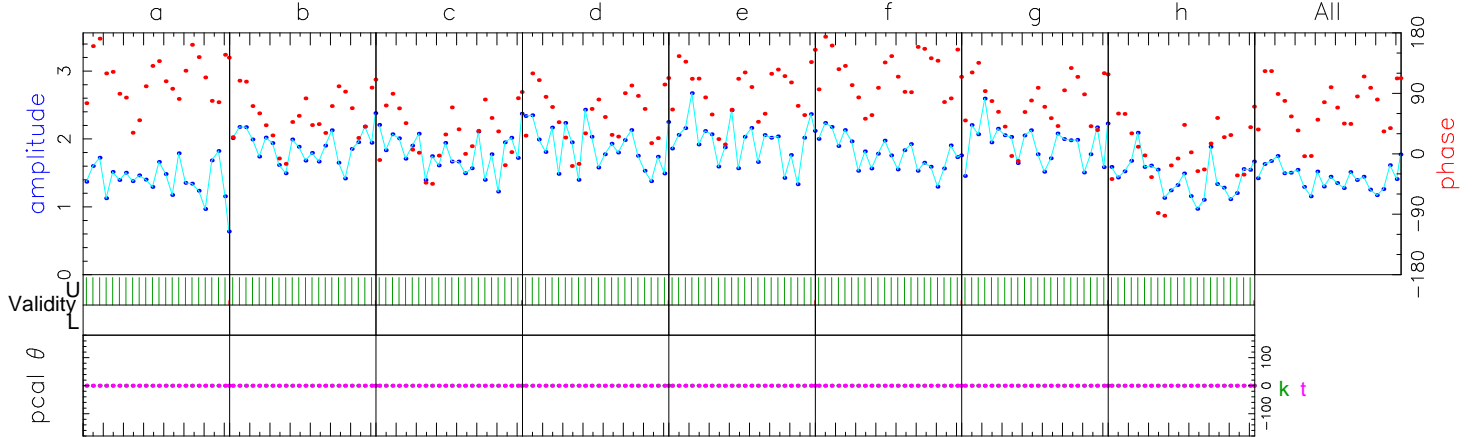


delay rate (ns/s)



Exp. c211a  
Yr:day 16383  
Xr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012809  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
-5°47'21.525129"

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



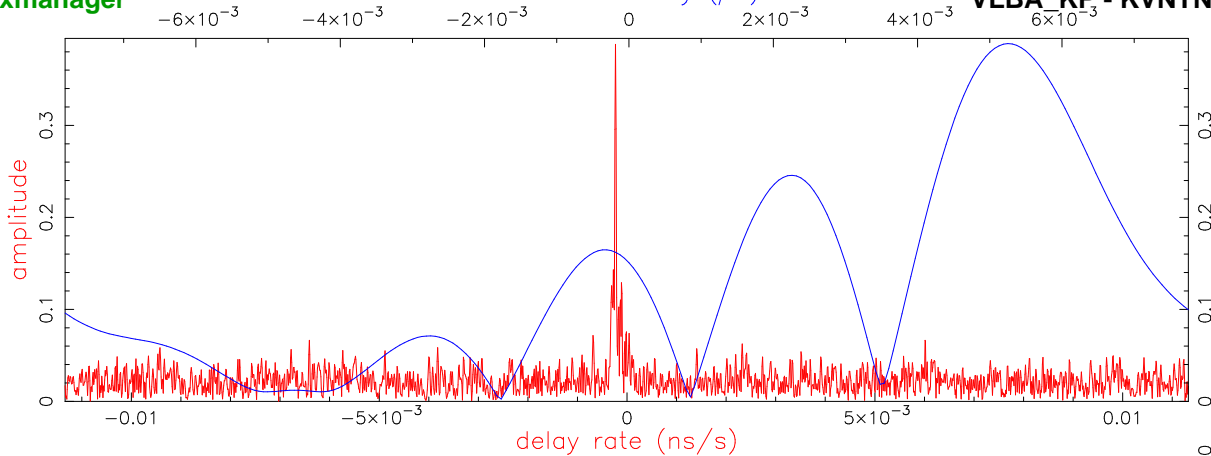
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.00705693769E+03		Apriori delay (usec)		2.00705162745E+03		Resid mbdelay (usec)		5.31024E-03	+/- 1.6E-05
Sband delay (usec)	2.00704943395E+03		Apriori clock (usec)		5.8904266E-01		Resid sbdelay (usec)		-2.19350E-03	+/- 1.3E-04
Phase delay (usec)	2.00705162970E+03		Apriori clockrate (us/s)		2.0000000E-07		Resid phdelay (usec)		2.25098E-06	+/- 5.6E-08
Delay rate (us/s)	-2.27073321252E+00		Apriori rate (us/s)		-2.27073298479E+00		Resid rate (us/s)		-2.27733E-07	+/- 2.3E-10
Total phase (deg)	137.7		Apriori accel (us/s/s)		-1.04428504527E-05		Resid phase (deg)		69.8	+/- 1.7

	RMS	Theor.	Amplitude	1.188 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	36.5	4.1	Search (2048X32)	1.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	24.5	7.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	42.7	2.4	Inc. seg. avg.	1.428	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	24.3	4.3	Inc. frq. avg.	1.414	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

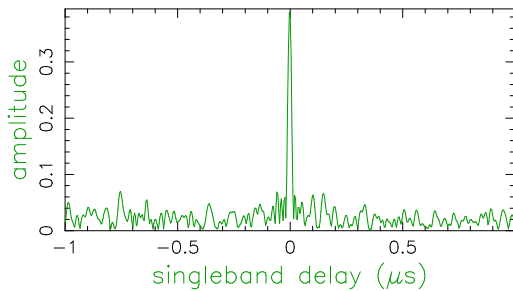
k: az 245.7 el 24.1 pa 51.4 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13060.045 -72.498 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/kt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/kt.W.104.1W6AM6

multiband delay ( $\mu$ s)

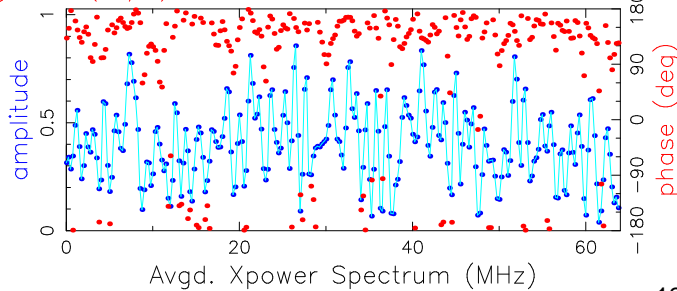
Fringe quality 8



SNR 22.1  
Int time 419.533  
Amp 0.395  
Phase 60.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.002287  
MBD 0.005326  
Fringe rate (Hz)  
-0.019588  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

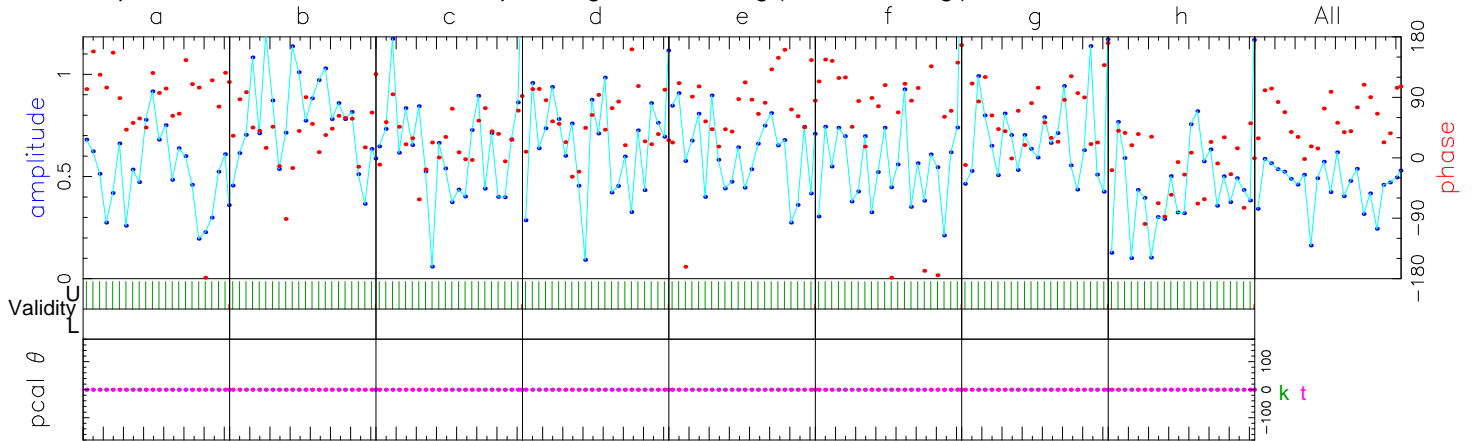


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012813  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
--5°47'21.525129"

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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		2.00705695384E+03		Apriori delay (usec)	2.00705162745E+03		Resid mbdelay (usec)	5.32639E-03	+/-	4.9E-05
Sband delay (usec)		2.00704934095E+03		Apriori clock (usec)	5.8904266E-01		Resid sbdelay (usec)	-2.28650E-03	+/-	3.9E-04
Phase delay (usec)		2.00705162941E+03		Apriori clockrate (us/s)	2.0000000E-07		Resid phdelay (usec)	1.95673E-06	+/-	1.7E-07
Delay rate (us/s)		-2.27073321219E+00		Apriori rate (us/s)	-2.27073298479E+00		Resid rate (us/s)	-2.27396E-07	+/-	6.9E-10
Total phase (deg)		128.6		Apriori accel (us/s/s)	-1.04428504527E-05		Resid phase (deg)	60.7	+/-	5.2

	RMS	Theor.	Amplitude	0.395 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	33.3	12.4	Search (2048X32)	0.366	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	32.2	21.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	43.5	7.3	Inc. seg. avg.	0.450	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.5	12.8	Inc. frq. avg.	0.462	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 245.7 el 24.1 pa 51.4 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13060.045 -72.498 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/kt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/kt.W.125.1W6AM6

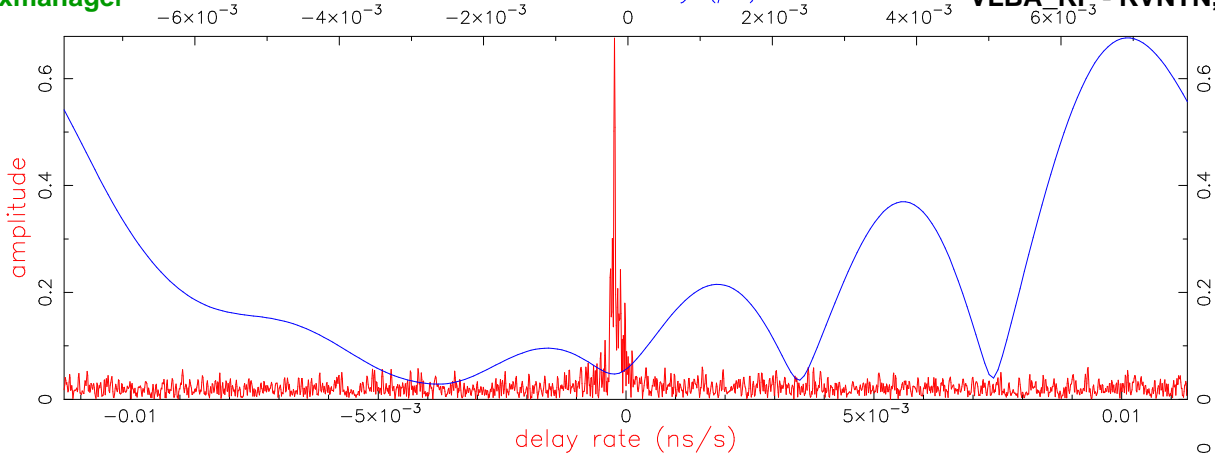
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, kt

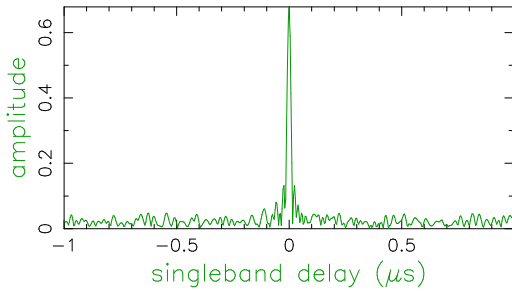
VLBA\_KP - KVNTN, fgroup W, pol RL

multiband delay ( $\mu$ s)

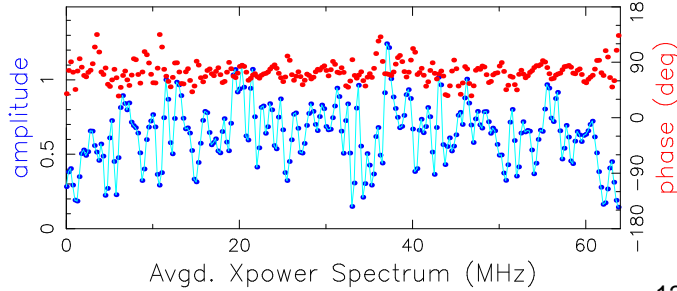


Fringe quality 5

SNR 38.0  
 Int time 419.533  
 Amp 0.679  
 Phase -16.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000884  
 MBD 0.006877  
 Fringe rate (Hz)  
 -0.019591  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

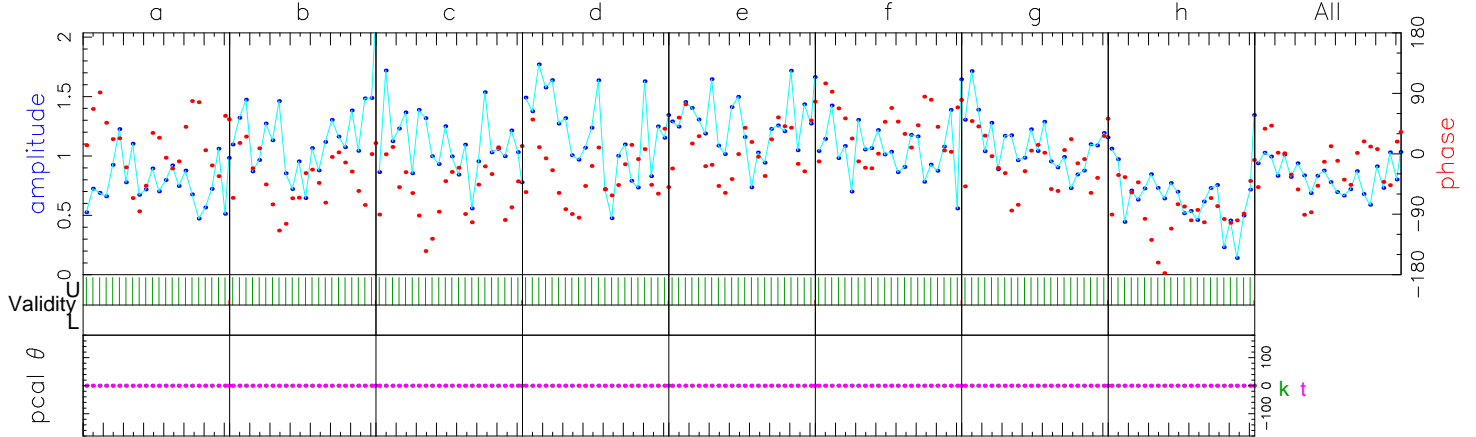


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012817  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		2.00705850494E+03				2.00705162745E+03			Resid mbdelay (usec)	6.87749E-03 +/- 2.9E-05
Sband delay (usec)		2.00705074370E+03				5.8904266E-01			Resid sbdelay (usec)	-8.83750E-04 +/- 2.3E-04
Phase delay (usec)		2.00705162692E+03				2.0000000E-07			Resid phdelay (usec)	-5.29624E-07 +/- 9.7E-08
Delay rate (us/s)		-2.27073321222E+00				Apriori rate (us/s)			Resid rate (us/s)	-2.27431E-07 +/- 4.0E-10
Total phase (deg)			51.5			Apriori accel (us/s/s)			Resid phase (deg)	-16.4 +/- 3.0

ph/seg (deg) 36.2 7.2 Search (2048X32) 0.631 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 29.3 12.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 41.6 4.3 Inc. seg. avg. 0.826 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 30.3 7.4 Inc. frq. avg. 0.799 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 k: az 245.7 el 24.1 pa 51.4 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13060.045 -72.498 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/kt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/kt.W.147.1W6AM6

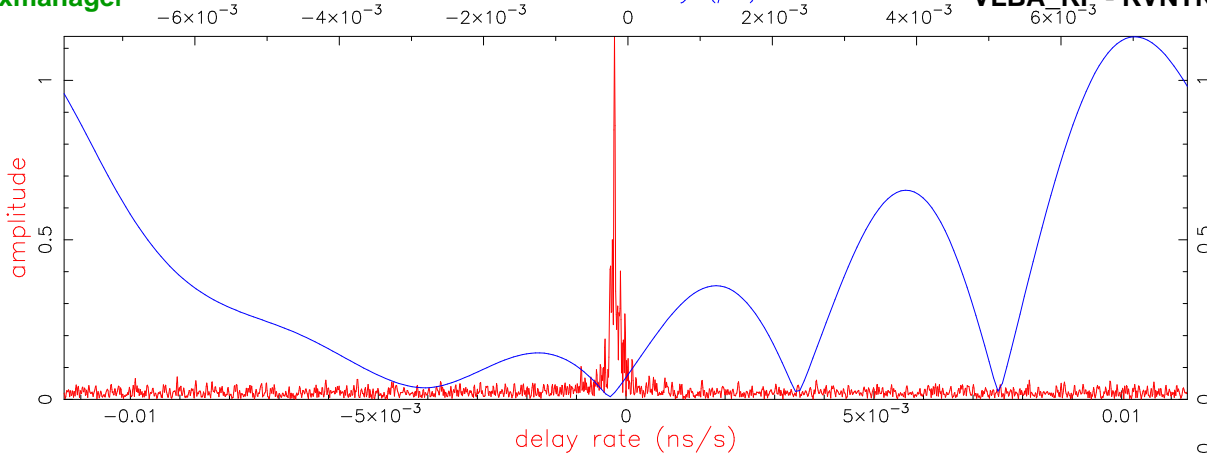
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, kt

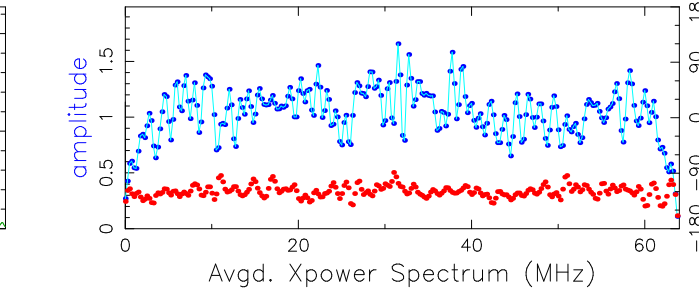
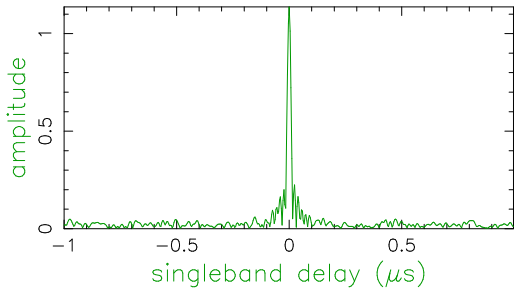
VLBA\_KP - KVNTN, fgroup W, pol LL

multiband delay ( $\mu$ s)



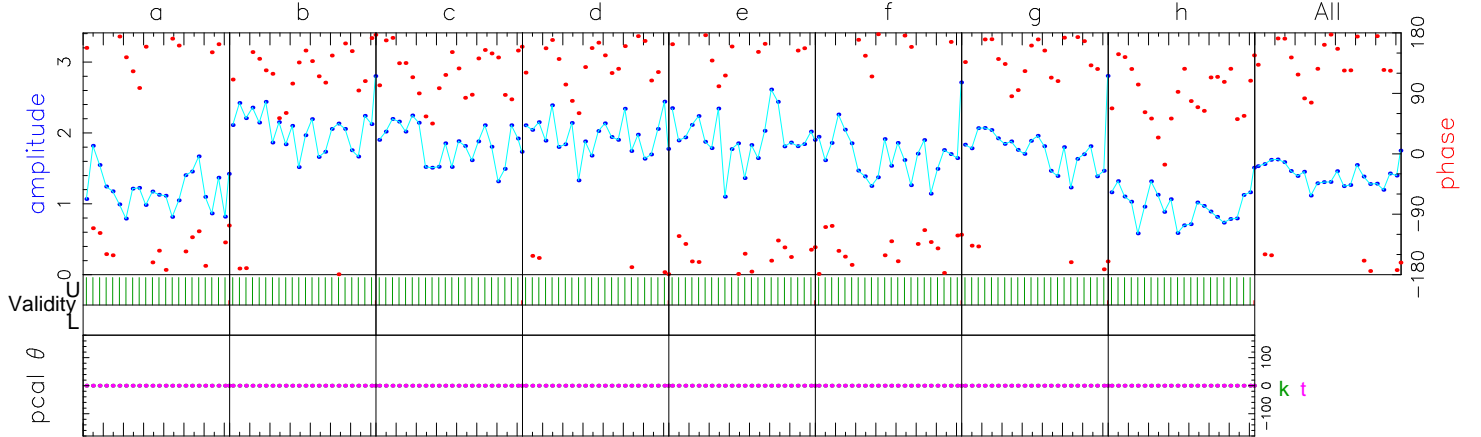
Fringe quality 3

SNR 63.7  
 Int time 419.533  
 Amp 1.138  
 Phase 155.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000385  
 MBD 0.007003  
 Fringe rate (Hz)  
 -0.019587  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Yr:day 16383  
 Start 2021:114  
 Stop 2021:114  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012805  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.00705863041E+03				2.00705162745E+03				7.00295E-03	+/- 1.7E-05
Sband delay (usec)	2.00705124195E+03				5.8904266E-01				-3.85500E-04	+/- 1.4E-04
Phase delay (usec)	2.00705163247E+03				2.0000000E-07				5.01835E-06	+/- 5.8E-08
Delay rate (us/s)	-2.27073321217E+00				-2.27073298479E+00				-2.27383E-07	+/- 2.4E-10
Total phase (deg)			223.6		-1.04428504527E-05				155.6	+/- 1.8
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-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) 37.0 4.3 Search (2048X32) 1.047 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 26.4 7.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 43.2 2.5 Inc. seg. avg. 1.397 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 34.2 4.4 Inc. frq. avg. 1.351 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 k: az 245.7 el 24.1 pa 51.4 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 13060.045 -72.498 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/kt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/kt.W.86.1W6AM6 simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

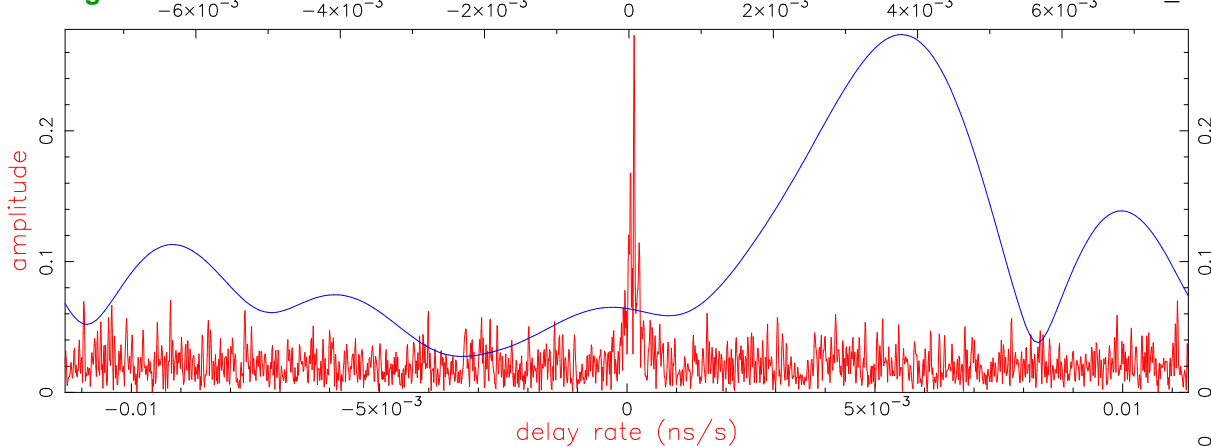
fxmanager

3C279.1W6AM6, No0213, tl

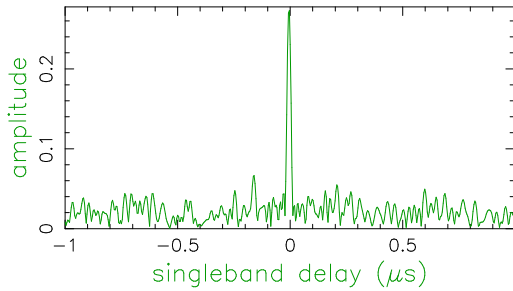
KVNTN - VLBA\_LA, fgroup W, pol LL

multiband delay ( $\mu$ s)

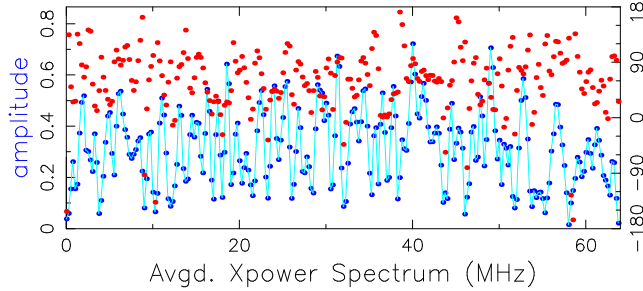
Fringe quality 8



SNR 15.6  
 Int time 419.833  
 Amp 0.278  
 Phase -39.8  
 PFD 1.4e-45  
 Delays (us)  
 SBD -0.005595  
 MBD 0.003691  
 Fringe rate (Hz)  
 0.012635  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

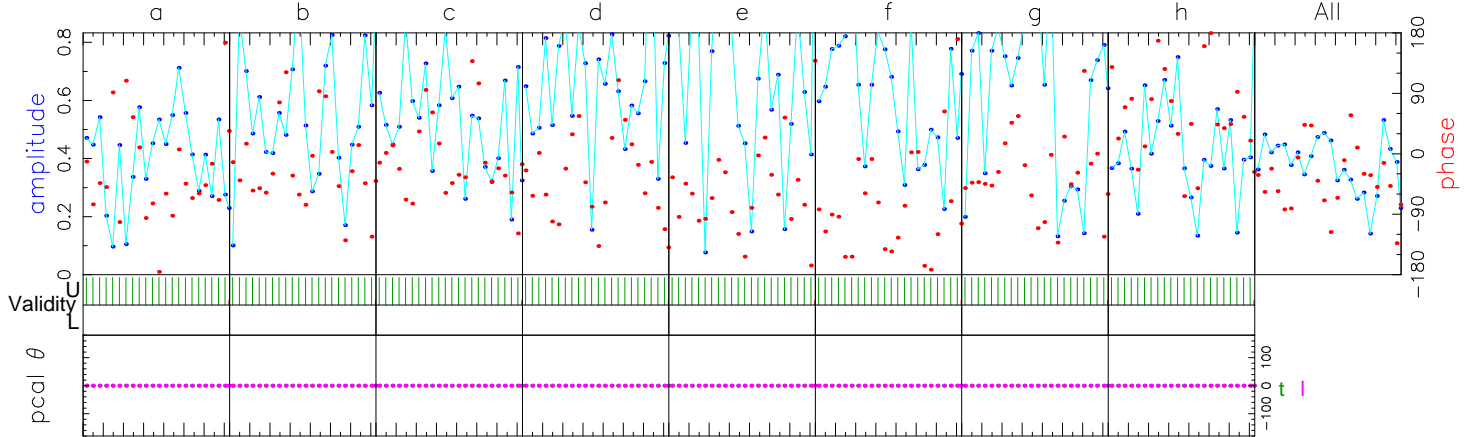


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012807  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.55804240820E+01	Apriori delay (usec)	-6.55684902071E+01	Resid mbdelay (usec)	3.69112E-03	+/-	7.0E-05
Sband delay (usec)	-6.55740849571E+01	Apriori clock (usec)	2.3247566E+00	Resid sbdelay (usec)	-5.59475E-03	+/-	5.5E-04
Phase delay (usec)	-6.55684914898E+01	Apriori clockrate (us/s)	8.6000014E-08	Resid phdelay (usec)	-1.28274E-06	+/-	2.4E-07
Delay rate (us/s)	2.28072981313E+00	Apriori rate (us/s)	2.28072966645E+00	Resid rate (us/s)	1.46683E-07	+/-	9.8E-10
Total phase (deg)	-308.5	Apriori accel (us/s/s)	7.77064295206E-07	Resid phase (deg)	-39.8	+/-	7.4

ph/seg (deg)	47.2	Theor.	17.7	Amplitude	0.278 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	50.1		30.8	Search (2048X32)	0.265	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	50.0		10.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	34.0		18.2	Inc. seg. avg.	0.366	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.333	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

t: az 109.2 el 17.0 pa -52.6 l: az 248.0 el 18.5 pa 49.1 u, v (fr/asec) -13129.439 -336.566 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tl.W.101.1W6AM6



Mk4/DiFX fourfit 3.21 rev 2937

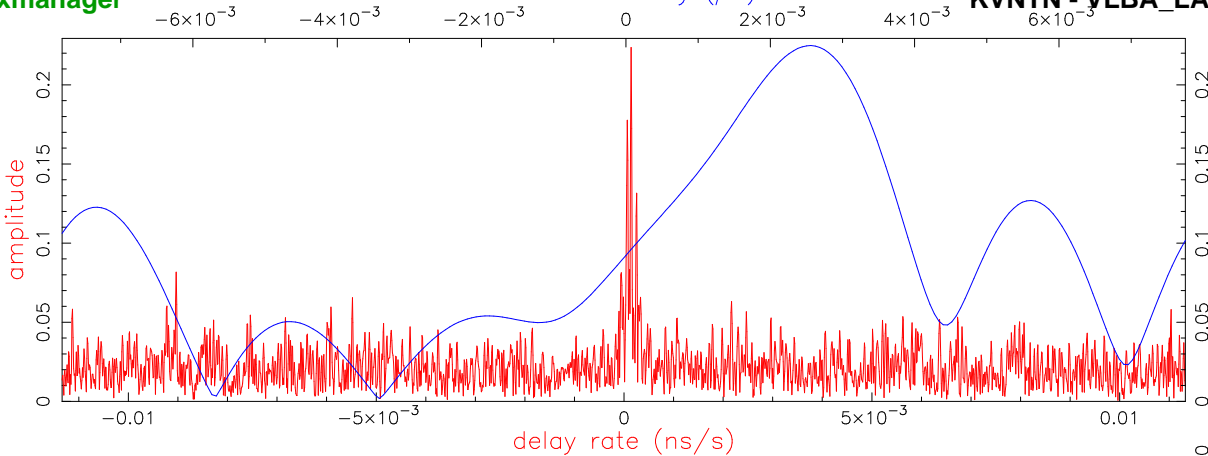
fxmanager

3C279.1W6AM6, No0213, tl

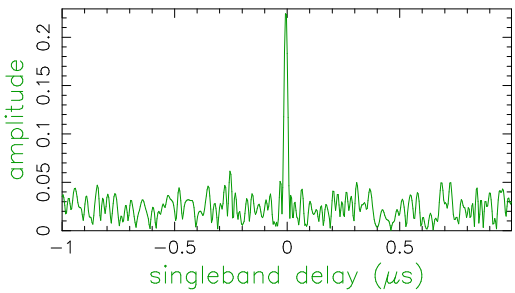
KVNTN - VLBA\_LA, fgroup W, pol LR

multiband delay ( $\mu$ s)

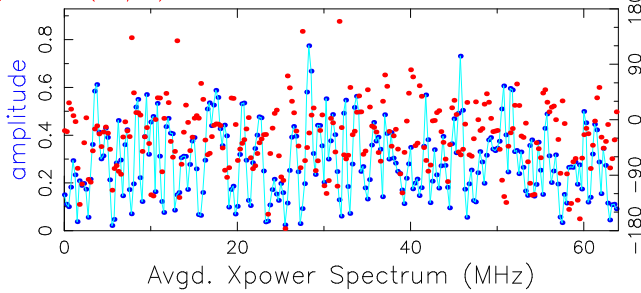
Fringe quality 9



SNR 12.9  
 Int time 419.833  
 Amp 0.229  
 Phase -120.8  
 PFD 4.7e-29  
 Delays (us)  
 SBD -0.005931  
 MBD 0.002415  
 Fringe rate (Hz)  
 0.012461  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

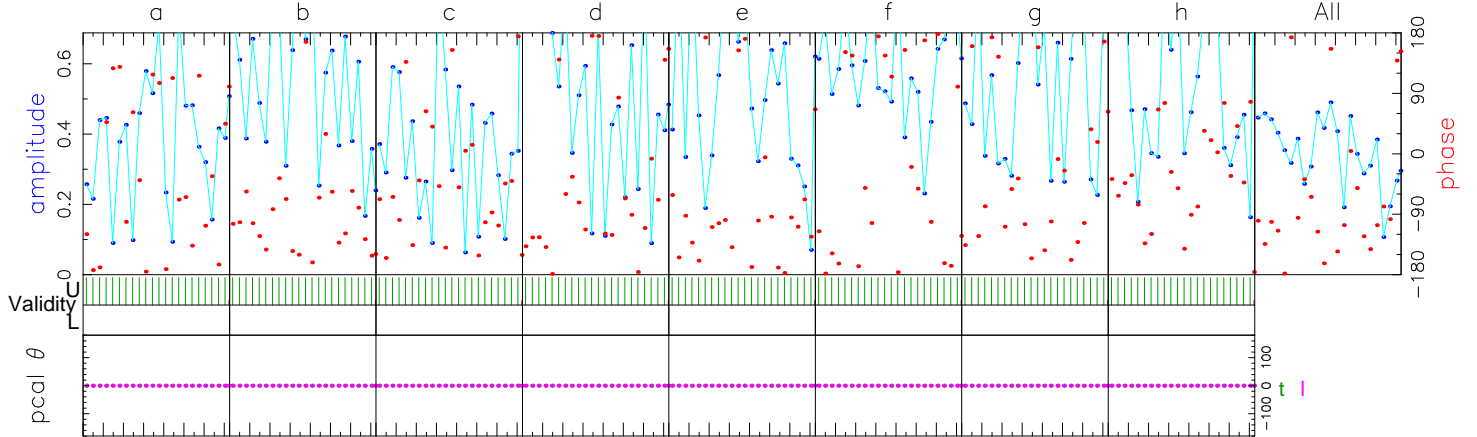


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012816  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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
	-167.7	-107.9	-87.8	-126.1	-133.5	-168.8	-131.8	-28.2	Phase	-120.8
	0.1	0.4	0.2	0.3	0.4	0.3	0.3	0.3	Ampl.	0.3
	479.1	255.1	256.5	255.9	255.3	254.8	256.5	257.0	Sbd box	255.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.55817006133E+01		Apriori delay (usec)		-6.55684902071E+01		Resid mbdelay (usec)		2.41459E-03	+/- 8.4E-05
Sband delay (usec)	-6.55744209571E+01		Apriori clock (usec)		2.3247566E+00		Resid sbdelay (usec)		-5.93075E-03	+/- 6.7E-04
Phase delay (usec)	-6.55684941038E+01		Apriori clockrate (us/s)		8.6000014E-08		Resid phdelay (usec)		-3.89666E-06	+/- 2.9E-07
Delay rate (us/s)	2.28072981111E+00		Apriori rate (us/s)		2.28072966645E+00		Resid rate (us/s)		1.44659E-07	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		7.77064295206E-07		Resid phase (deg)		-120.8	+/- 8.9

	RMS	Theor.	Amplitude	0.229 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	53.7	21.4	Search (2048X32)	0.224	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	67.8	37.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	49.4	12.6	Inc. seg. avg.	0.327	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	48.2	22.0	Inc. frq. avg.	0.281	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

t: az 109.2 el 17.0 pa -52.6 l: az 248.0 el 18.5 pa 49.1 u,v (fr/asec) -13129.439 -336.566 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tl.W.143.1W6AM6

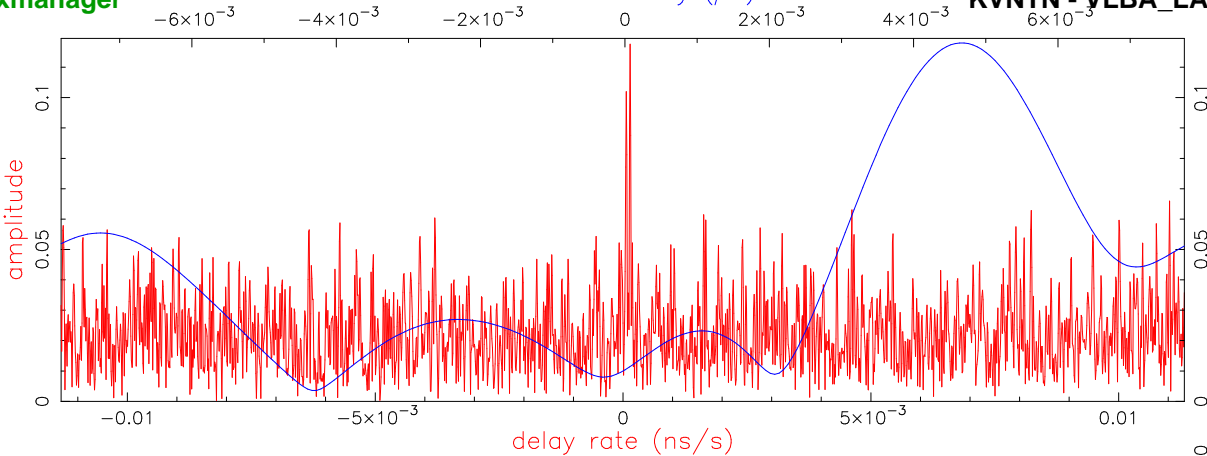
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tl

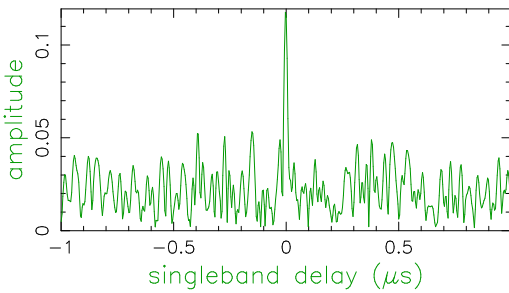
KVNTN - VLBA\_LA, fgroup W, pol RL

multiband delay ( $\mu$ s)

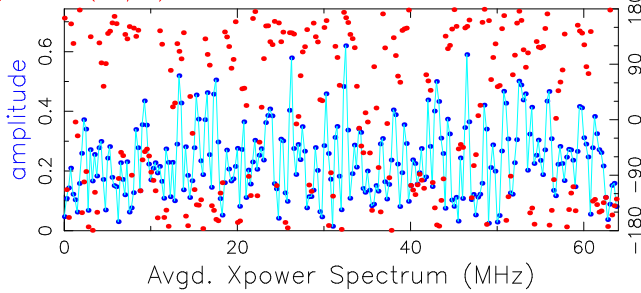


Fringe quality 0

SNR 6.7  
 Int time 419.833  
 Amp 0.119  
 Phase 83.0  
 PFD 6.2e-03  
 Delays (us)  
 SBD -0.002329  
 MBD 0.004792  
 Fringe rate (Hz)  
 0.012822  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

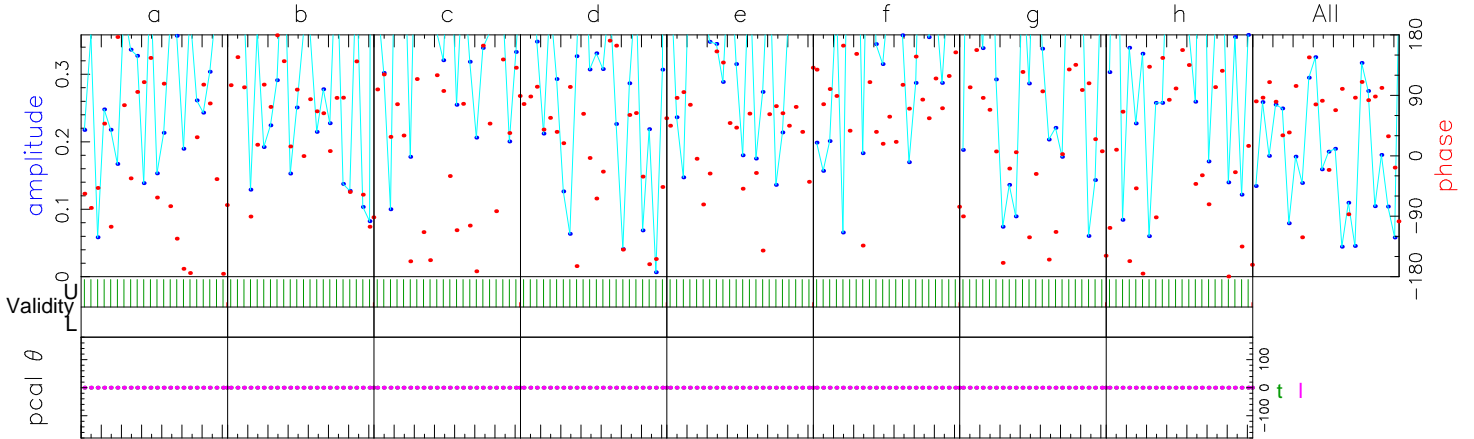


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012820  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.55636985195E+01									
Sband delay (usec)	-6.55708192071E+01									
Phase delay (usec)	-6.55684875313E+01									
Delay rate (us/s)	2.28072981531E+00									
Total phase (deg)			-185.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									83.0	+/- 17.1
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
PC period (AP's)	5	5								
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) 65.2 41.0 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 87.3 71.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 56.7 24.2 Inc. seg. avg. 0.141 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 61.3 42.2 Inc. frq. avg. 0.120 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 109.2 el 17.0 pa -52.6 l: az 248.0 el 18.5 pa 49.1 u,v (fr/asec) -13129.439 -336.566 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tl.W.161.1W6AM6



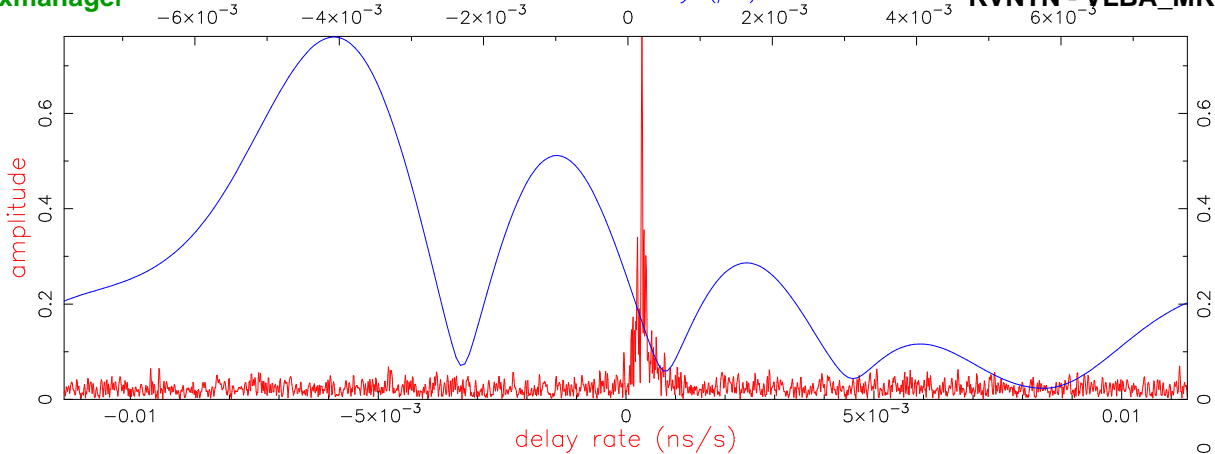
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tm

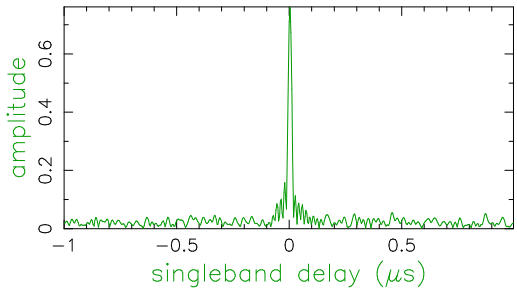
KVNTN - VLBA\_MK, fgroup W, pol LL

multiband delay ( $\mu$ s)

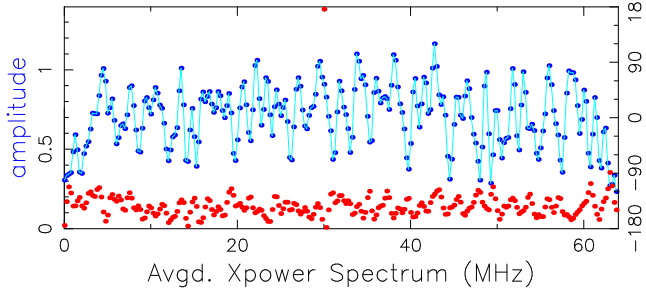


Fringe quality 5

SNR 42.7  
 Int time 419.821  
 Amp 0.762  
 Phase -58.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.003363  
 MBD -0.004105  
 Fringe rate (Hz)  
 0.027976  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

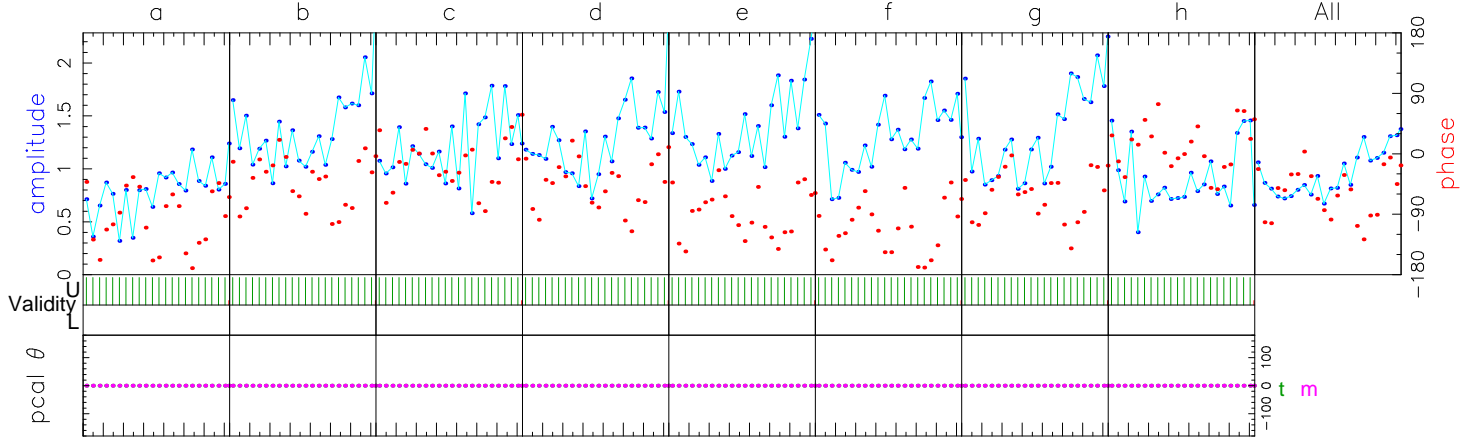


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012809  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) -1.21621752571E+04 Apriori delay (usec) -1.21621711522E+04 Resid mbdelay (usec) -4.10488E-03 +/- 2.5E-05  
 Sband delay (usec) -1.21621677892E+04 Apriori clock (usec) -1.5928730E+01 Resid sbdelay (usec) 3.36300E-03 +/- 2.0E-04  
 Phase delay (usec) -1.21621711541E+04 Apriori clockrate (us/s) -5.1799998E-07 Resid phdelay (usec) -1.88478E-06 +/- 8.7E-08  
 Delay rate (us/s) 1.50941307807E+00 Apriori rate (us/s) 1.50941275329E+00 Resid rate (us/s) 3.24777E-07 +/- 3.6E-10  
 Total phase (deg) -77.4 Apriori accel (us/s/s) 6.21541969378E-05 Resid phase (deg) -58.4 +/- 2.7

ph/seg (deg) 36.0 6.4 Search (2048X32) 0.716 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 36.4 11.2 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 3.8 Inc. seg. avg. 0.946 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 34.5 6.6 Inc. frq. avg. 0.956 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 109.2 el 17.0 pa -52.6 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) -8614.163 1332.750 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tm.W.106.1W6AM6

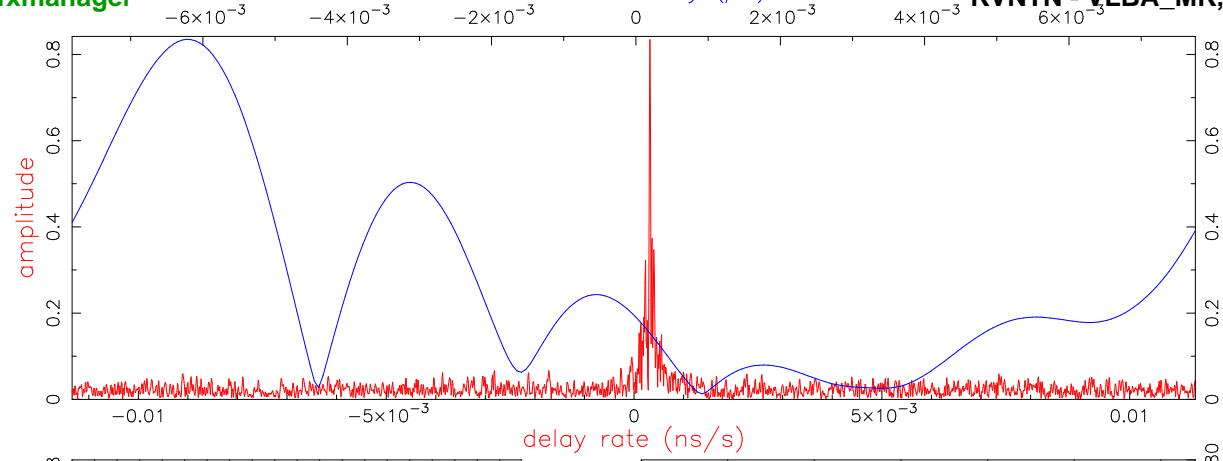
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tm

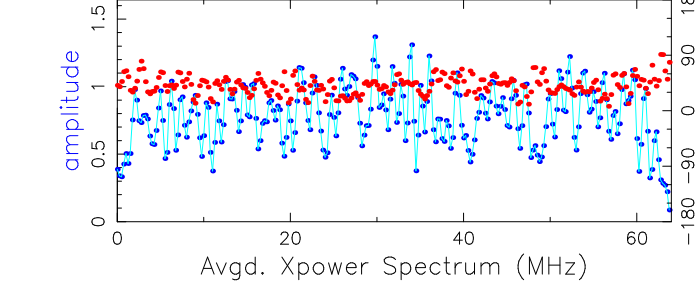
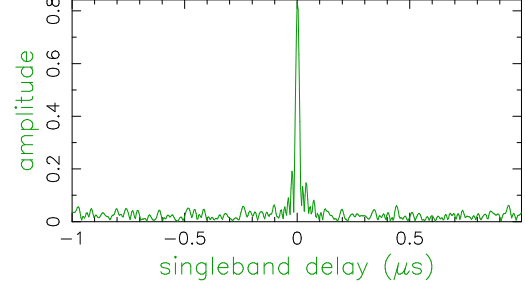
KVNTN - VLBA\_MK, fgroup W, pol RR

multiband delay ( $\mu$ s)



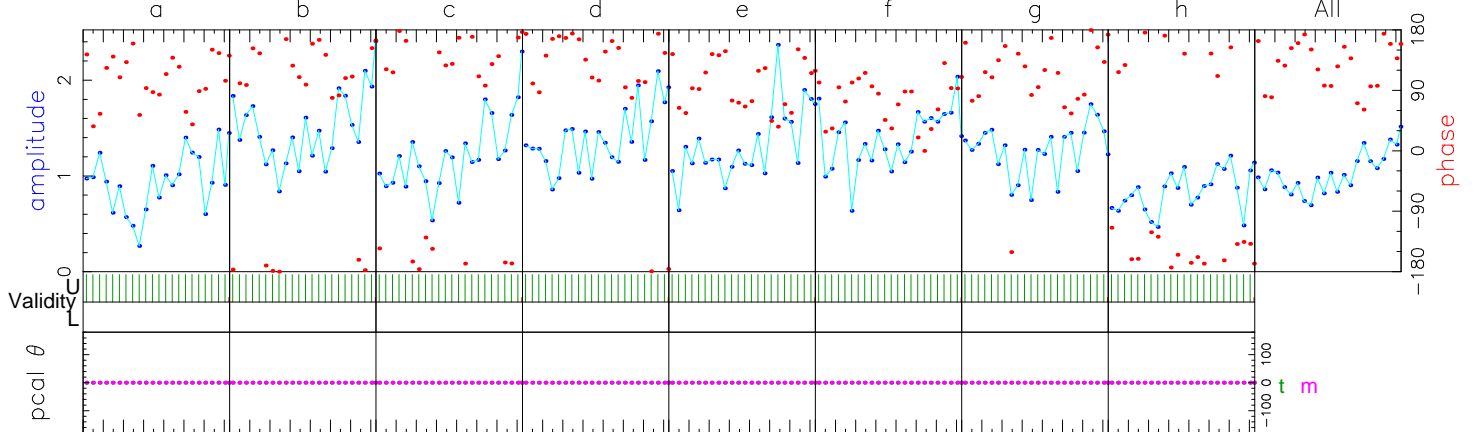
Fringe quality 5

SNR 47.2  
 Int time 419.821  
 Amp 0.842  
 Phase 124.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.001194  
 MBD -0.006157  
 Fringe rate (Hz) 0.028087  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012813  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd) -1.21621773094E+04 Apriori delay (usec) -1.21621711522E+04 Resid mbdelay (usec) -6.15713E-03 +/- 2.3E-05  
 Sband delay (usec) -1.21621699587E+04 Apriori clock (usec) -1.5928730E+01 Resid sbdelay (usec) 1.19350E-03 +/- 1.8E-04  
 Phase delay (usec) -1.21621711482E+04 Apriori clockrate (us/s) -5.1799998E-07 Resid phdelay (usec) 4.01514E-06 +/- 7.8E-08  
 Delay rate (us/s) 1.50941307935E+00 Apriori rate (us/s) 1.50941275329E+00 Resid rate (us/s) 3.26060E-07 +/- 3.2E-10  
 Total phase (deg) 105.5 Apriori accel (us/s/s) 6.21541969378E-05 Resid phase (deg) 124.5 +/- 2.4

RMS Theor. Amplitude 0.842 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 34.1 5.8 Search (2048X32) 0.781 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 30.5 10.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 39.3 3.4 Inc. seg. avg. 1.008 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 27.1 6.0 Inc. frq. avg. 0.985 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

t: az 109.2 el 17.0 pa -52.6 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) -8614.163 1332.750 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tm.W.127.1W6AM6

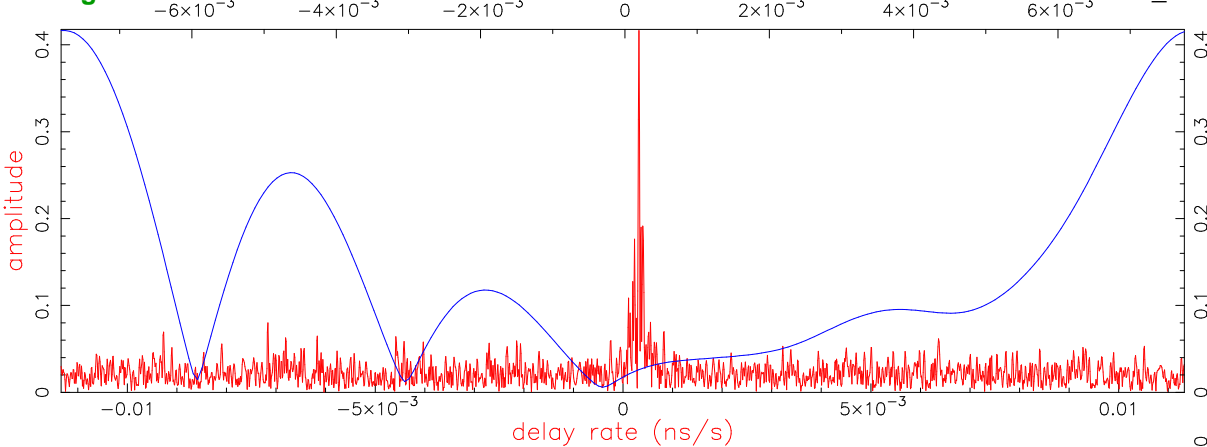
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tm

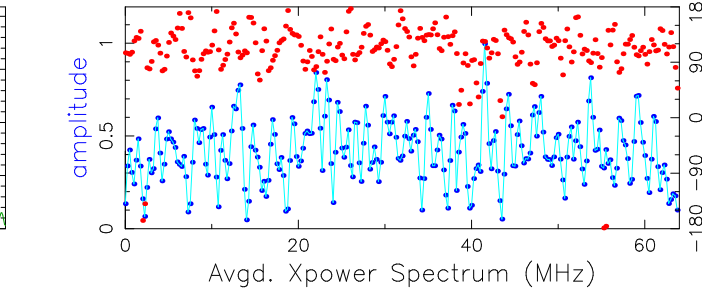
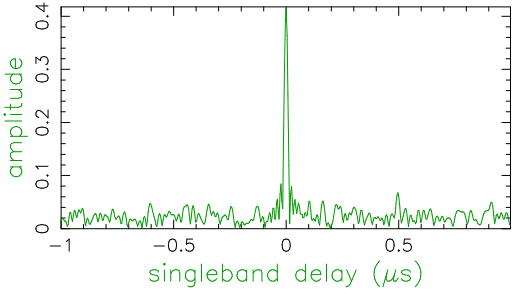
KVNTN - VLBA\_MK, fgroup W, pol LR

multiband delay ( $\mu$ s)



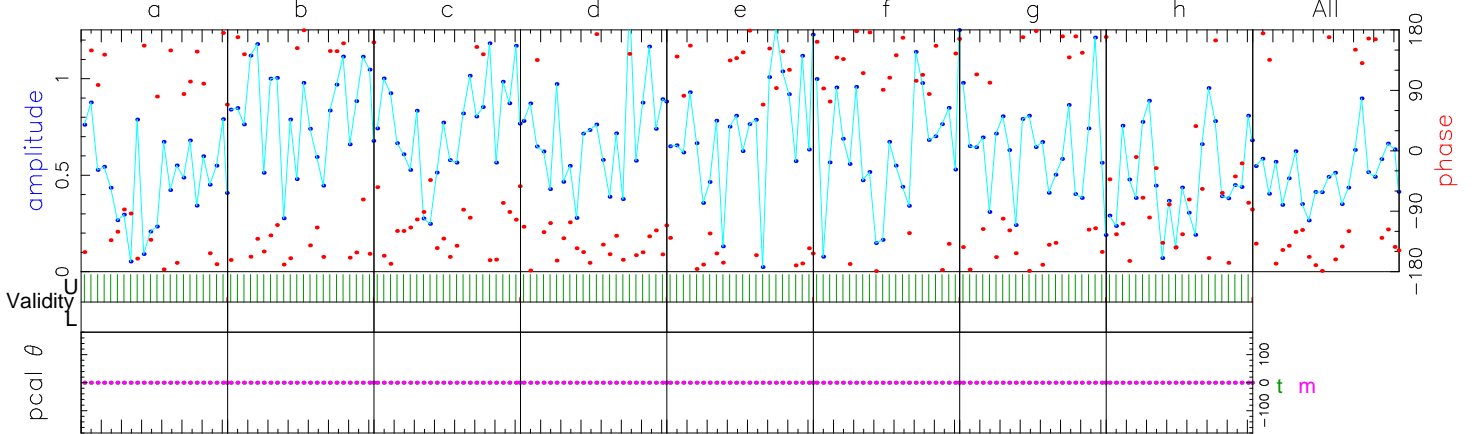
Fringe quality 8

SNR 23.4  
 Int time 419.821  
 Amp 0.418  
 Phase -164.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000709  
 MBD -0.007812  
 Fringe rate (Hz)  
 0.028083  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012816  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.21621789644E+04									
Sband delay (usec)	-1.21621718612E+04									
Phase delay (usec)	-1.21621711575E+04									
Delay rate (us/s)	1.50941307931E+00									
Total phase (deg)		-183.0								
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal $\theta$										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
RMS	33.6	11.7								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.418 +/- 0.018										
0.391										
0.000										
0.499										
0.493										
PC period (AP's) 5, 5										
pcal mode: MANUAL, MANUAL										
PC rate: 0.000E+00, 0.000E+00 (us/s)										
SampCntNorm: enabled										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										
simultaneous interpolator										

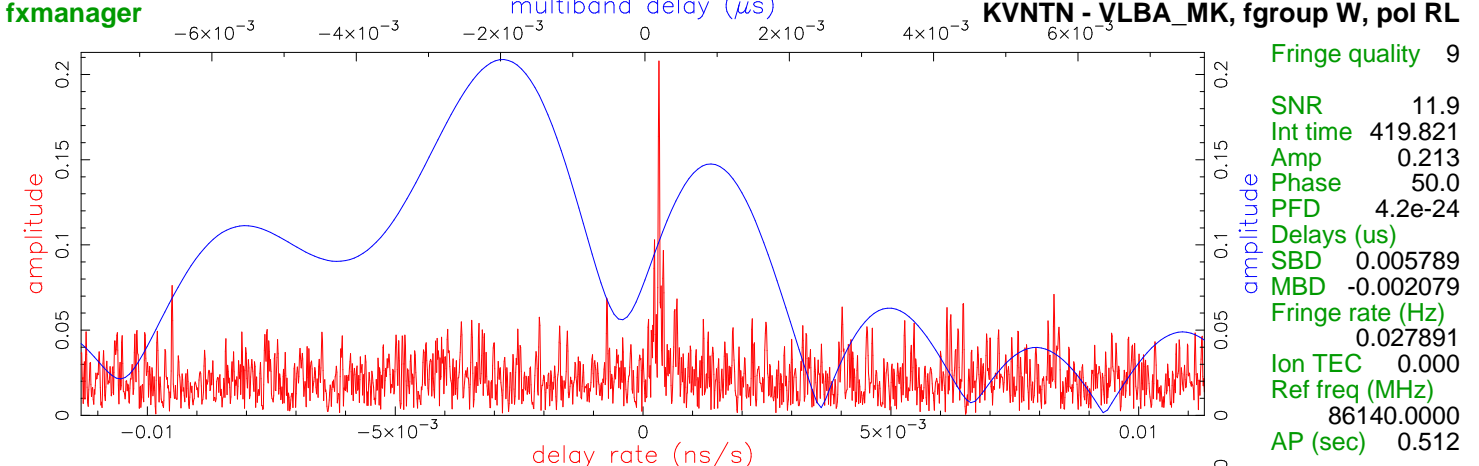
t: az 109.2 el 17.0 pa -52.6 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) -8614.163 1332.750 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tm.W.146.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tm

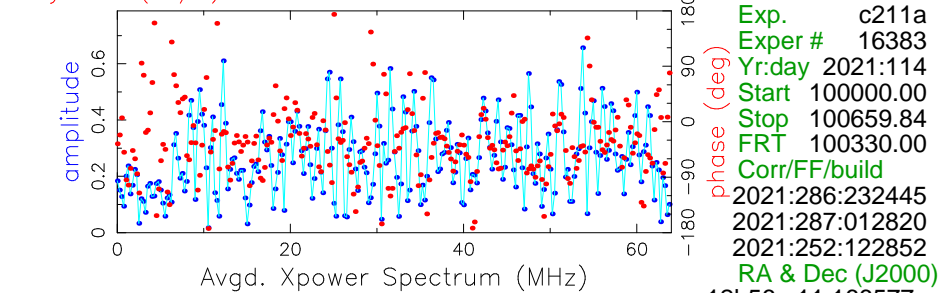
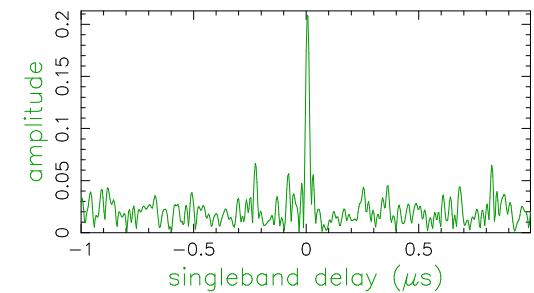
KVNTN - VLBA\_MK, fgroup W, pol RL



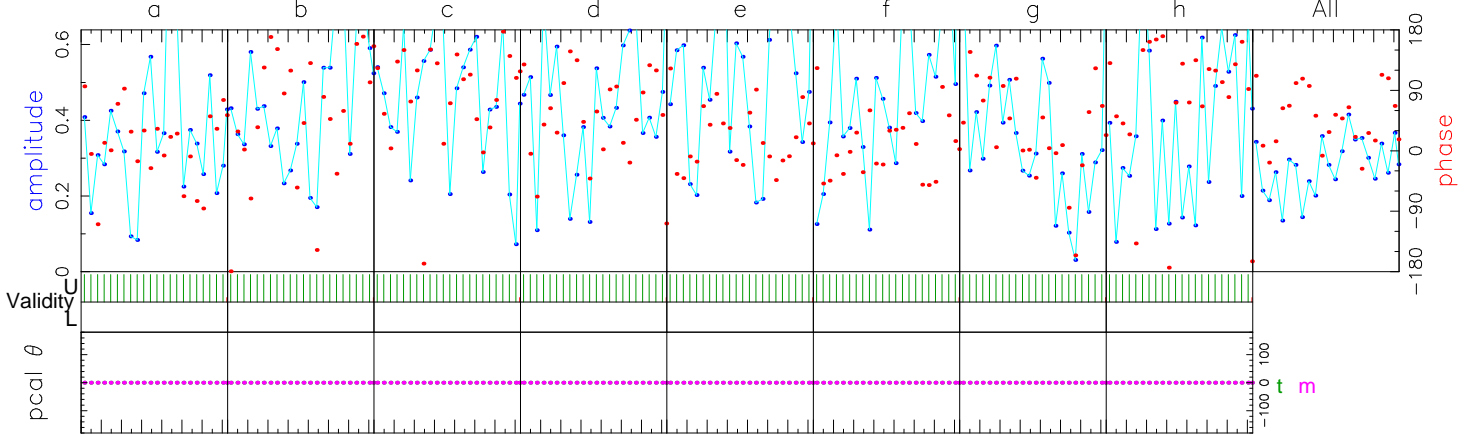
Fringe quality 9

SNR 11.9  
 Int time 419.821  
 Amp 0.213  
 Phase 50.0  
 PFD 4.2e-24  
 Delays (us)  
 SBD 0.005789  
 MBD -0.002079  
 Fringe rate (Hz) 0.027891  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012820  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"



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	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.21621576062E+04					-1.21621711522E+04			Resid mbdelay (usec)	-2.07894E-03 +/- 9.1E-05
Sband delay (usec)	-1.21621653632E+04					-1.5928730E+01			Resid sbdelay (usec)	5.78900E-03 +/- 7.2E-04
Phase delay (usec)	-1.21621711506E+04					-5.1799998E-07			Resid phdelay (usec)	1.61119E-06 +/- 3.1E-07
Delay rate (us/s)	1.50941307708E+00					1.50941275329E+00			Resid rate (us/s)	3.23788E-07 +/- 1.3E-09
Total phase (deg)			31.0			6.21541969378E-05			Resid phase (deg)	50.0 +/- 9.6

	RMS	Theor.	Amplitude	0.213 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	42.6	23.0	Search (2048X32)	0.203	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	45.9	40.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	46.9	13.6	Inc. seg. avg.	0.258	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.8	23.7	Inc. frq. avg.	0.266	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 109.2 el 17.0 pa -52.6 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) -8614.163 1332.750 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tm.W.162.1W6AM6



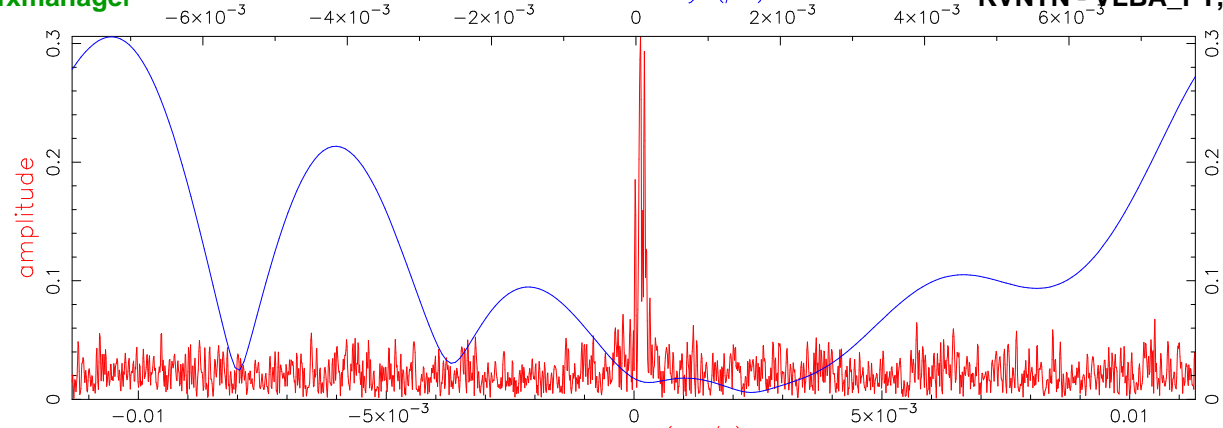
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tp

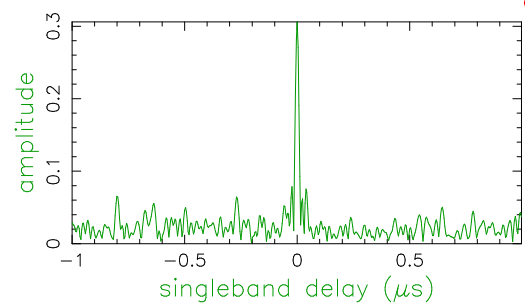
KVNTN - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)

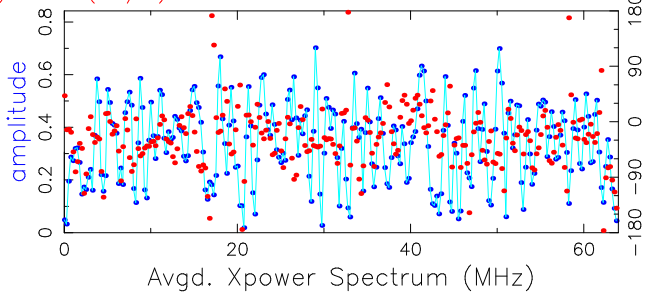


Fringe quality 8

SNR 17.1  
Int time 419.832  
Amp 0.306  
Phase 53.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.000422  
MBD -0.007286  
Fringe rate (Hz) 0.011418  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

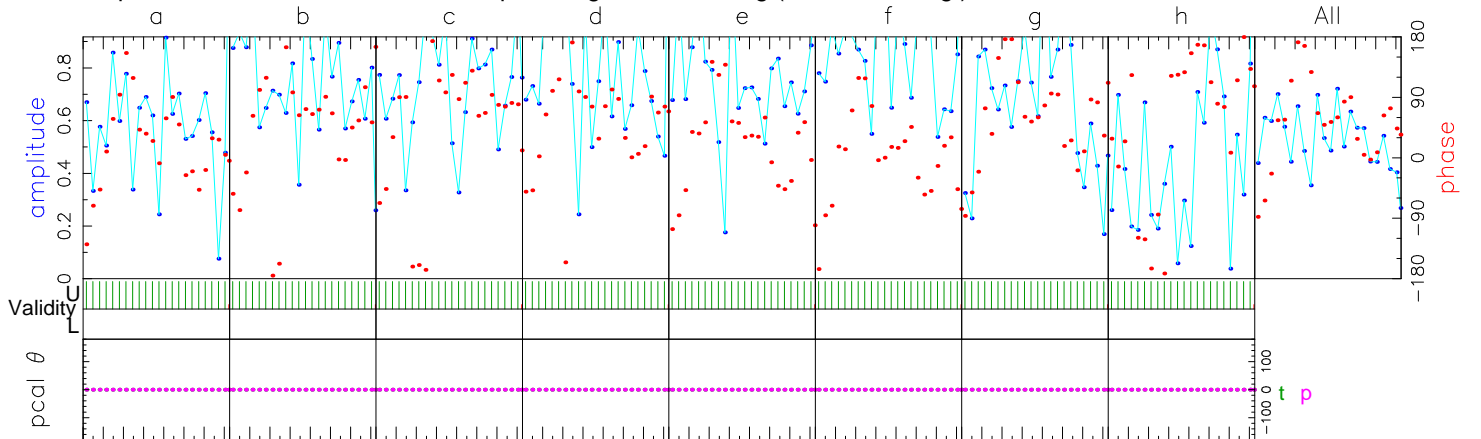


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012815  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
--5°47'21.525129"

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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
tp	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.67320016974E+02									
Sband delay (usec)	-7.67313152715E+02									
Phase delay (usec)	-7.67312729232E+02									
Delay rate (us/s)	2.28145793237E+00									
Total phase (deg)			-178.6							
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)										
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)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
RMS	62.7	16.0								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.306 +/- 0.018										
0.304										
0.000										
0.516										
0.379										
PCal period (AP's) 5, 5										
simultaneous interpolator										

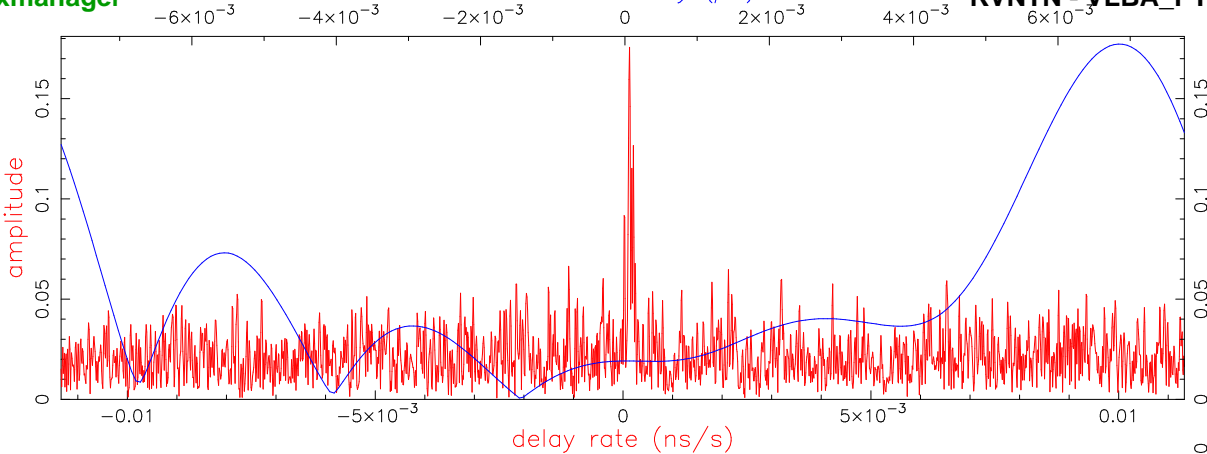
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tp

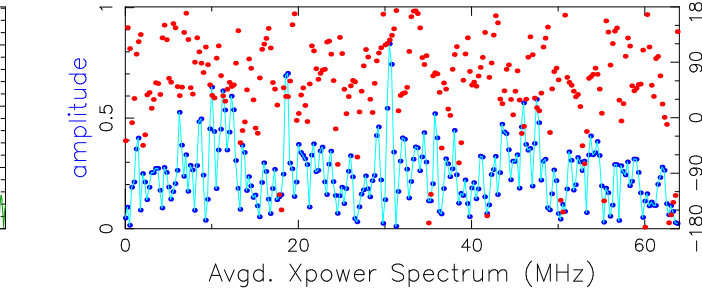
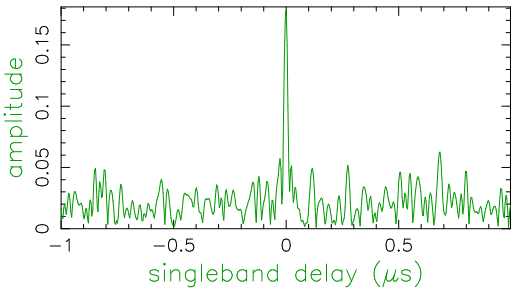
KVNTN - VLBA\_PT, fgroup W, pol LR

multiband delay ( $\mu$ s)



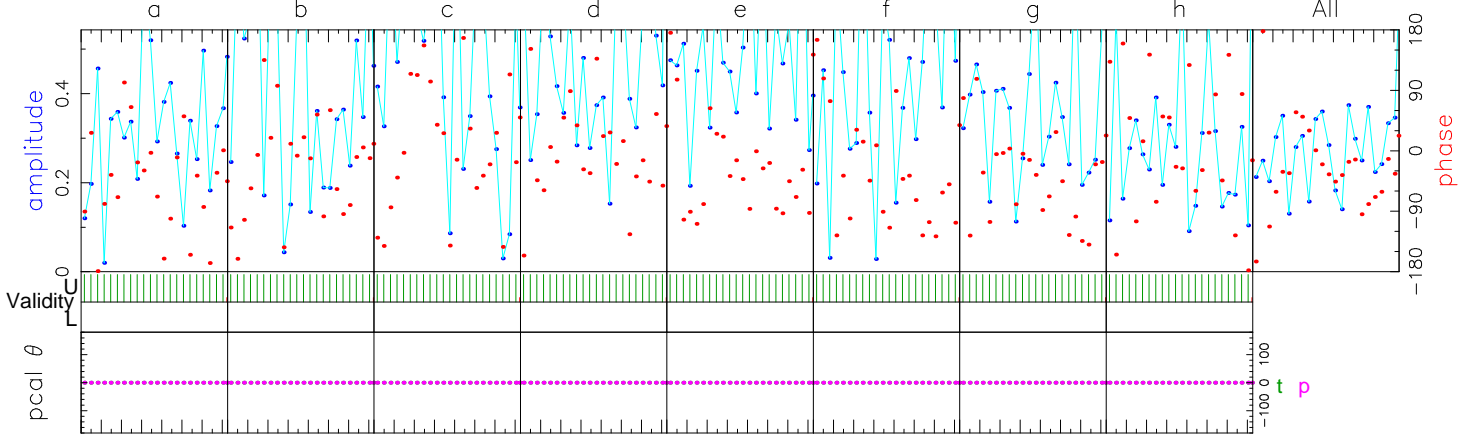
Fringe quality 9

SNR 10.1  
 Int time 419.832  
 Amp 0.181  
 Phase -33.2  
 PFD 1.5e-15  
 Delays (us)  
 SBD -0.001648  
 MBD 0.007023  
 Fringe rate (Hz)  
 0.011102  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012818  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
tp	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.67321333349E+02				-7.67312730965E+02				7.02262E-03	+/- 1.1E-04
Sband delay (usec)	-7.67314378965E+02				-5.8062172E+00				-1.64800E-03	+/- 8.5E-04
Phase delay (usec)	-7.67312732035E+02				-7.9999999E-08				-1.06997E-06	+/- 3.6E-07
Delay rate (us/s)	2.28145792870E+00				2.28145779981E+00				1.28888E-07	+/- 1.5E-09
Total phase (deg)			-265.5		4.22101805124E-06				-33.2	+/- 11.3
	RMS	Theor.	Amplitude	0.181 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	58.9	27.1	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	66.7	47.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	30.3	16.0	Inc. seg. avg.	0.245	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	37.5	27.9	Inc. frq. avg.	0.187	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 109.2 el 17.0 pa -52.6 p: az 247.2 el 20.5 pa 50.3 u,v (fr/asec) -13129.408 -179.250 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tp..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tp.W.154.1W6AM6

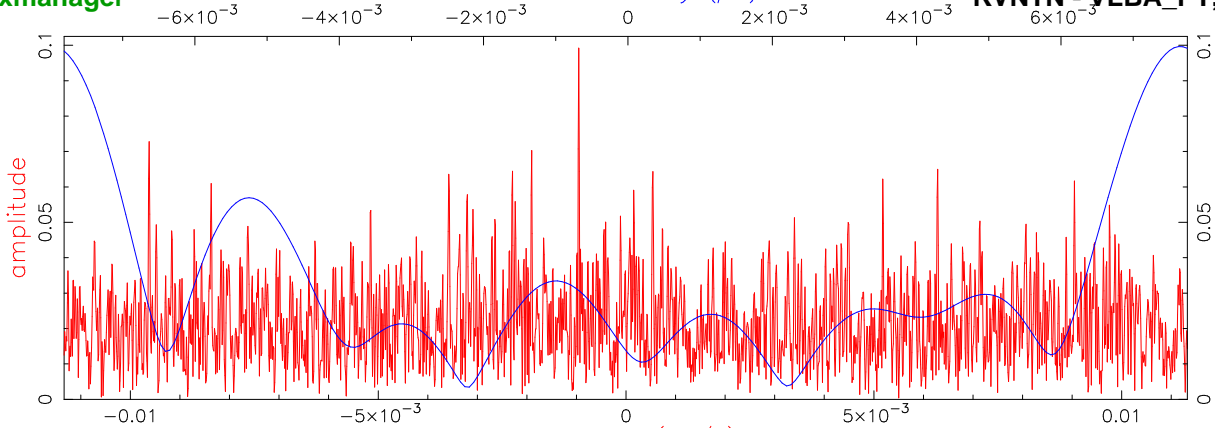
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

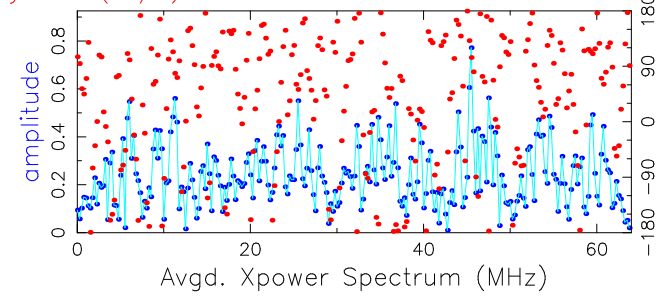
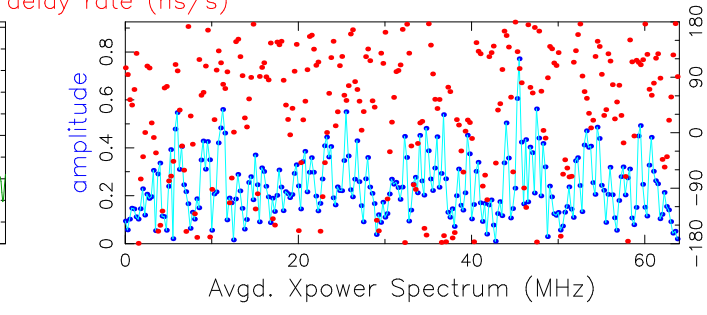
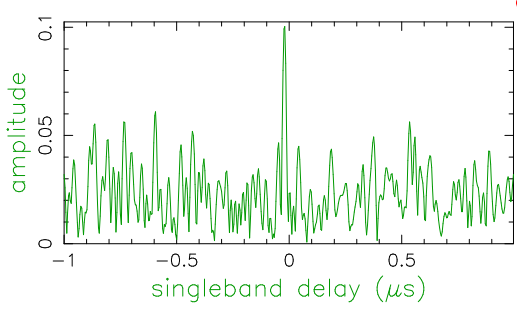
3C279.1W6AM6, No0213, tp

KVNTN - VLBA\_PT, fgroup W, pol RL

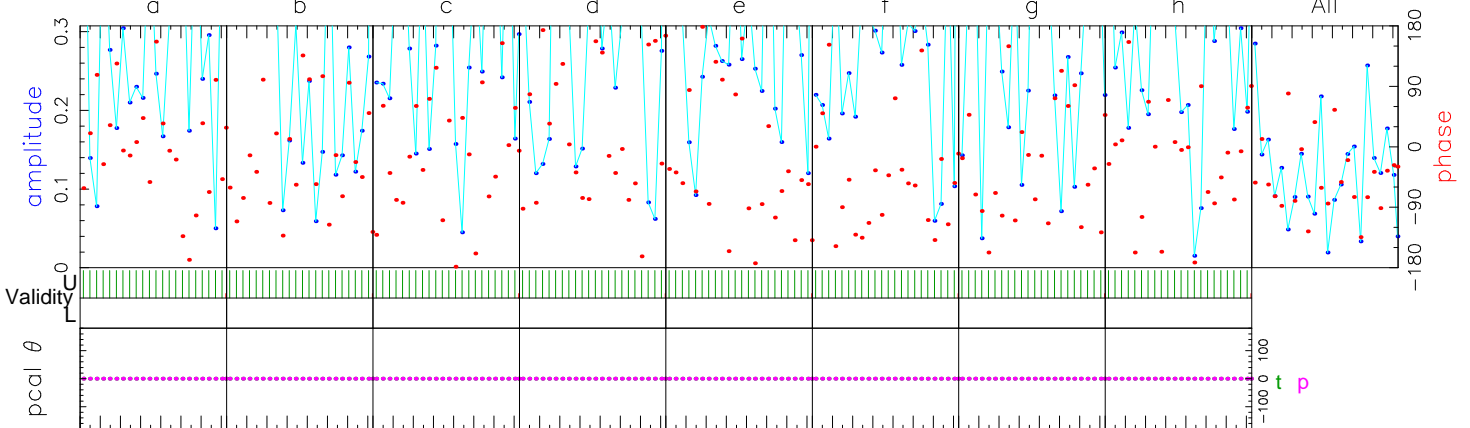
multiband delay ( $\mu$ s)



Fringe quality 0  
 SNR 5.7  
 Int time 419.832  
 Amp 0.103  
 Phase -50.2  
 PFD 9.2e-01  
 Delays (us)  
 SBD -0.021245  
 MBD -0.007879  
 Fringe rate (Hz)  
 -0.081916  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012822  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"



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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
tp	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.67336235215E+02									
Sband delay (usec)	-7.67333975715E+02									
Phase delay (usec)	-7.67312732584E+02									
Delay rate (us/s)	2.28145684885E+00									
Total phase (deg)			-282.5							
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)										
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								

t: az 109.2 el 17.0 pa -52.6 p: az 247.2 el 20.5 pa 50.3 u,v (fr/asec) -13129.408 -179.250 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tp..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tp.W.163.1W6AM6

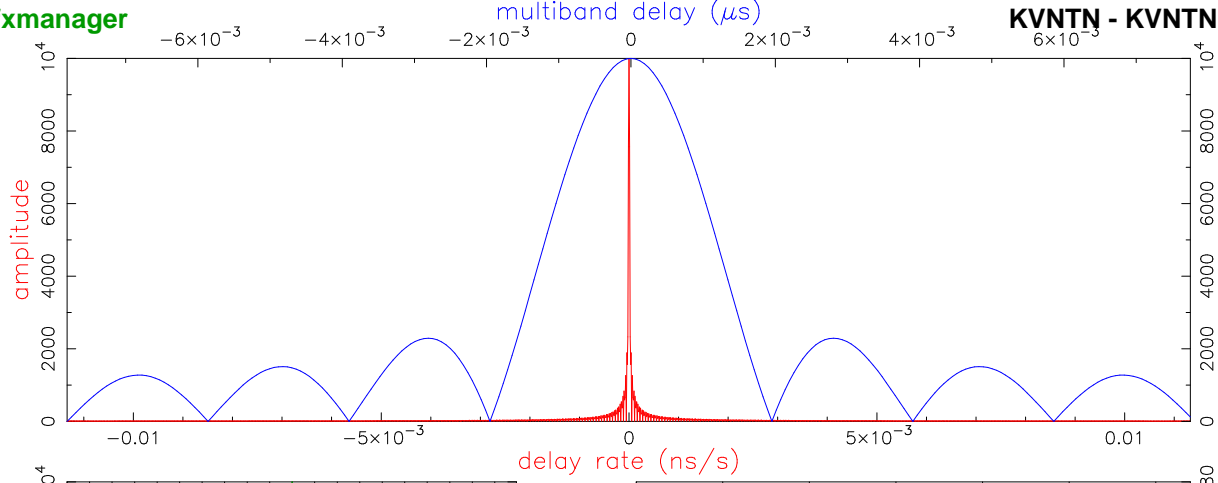


Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tt

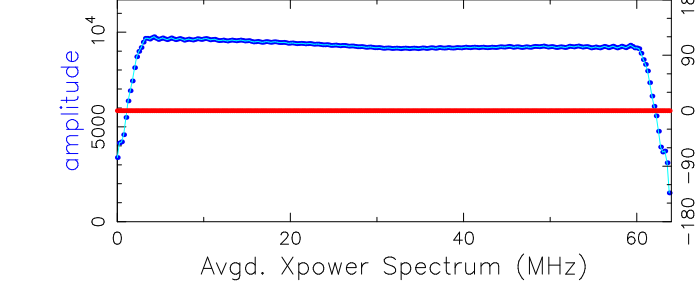
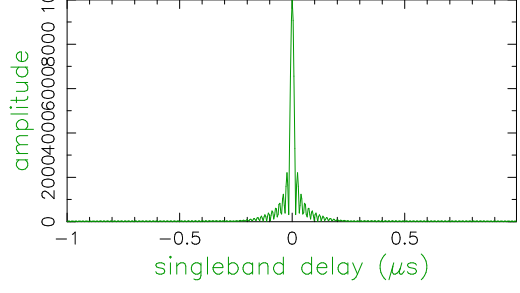
KVNTN - KVNTN, fgroup W, pol LL



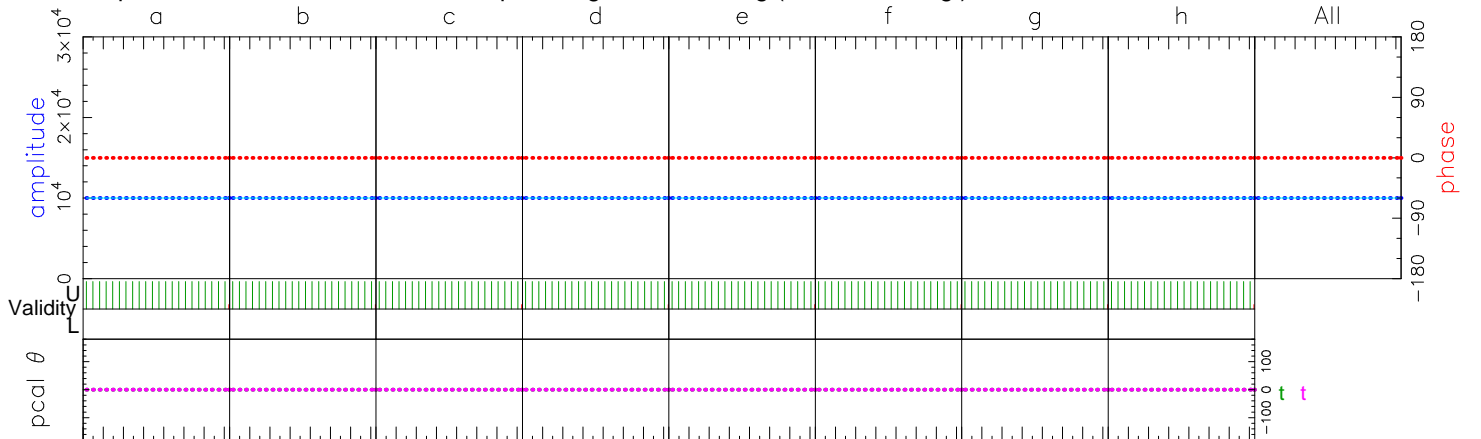
Fringe quality 9

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 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012819  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

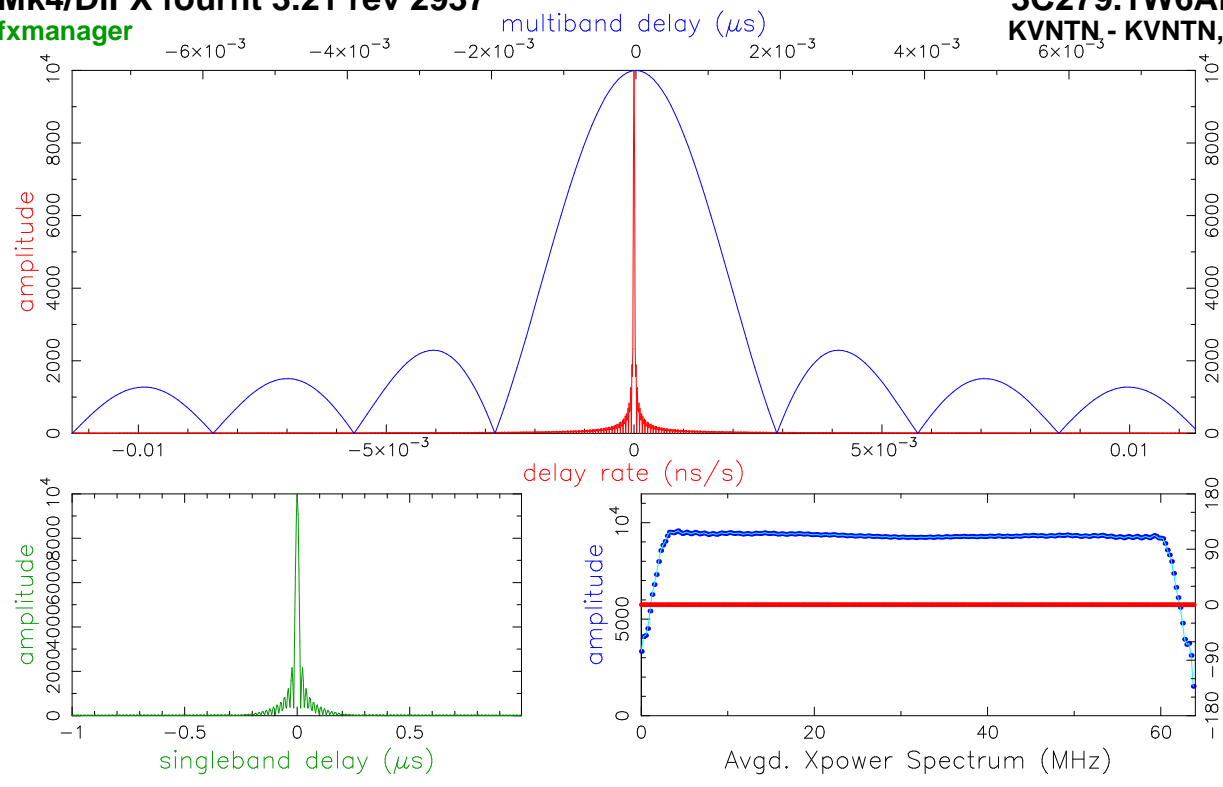


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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
t	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
t:t	0:0	0:0	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	10000.0	10000.0
t	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 1.5E-08
Phase delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 6.6E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 2.7E-14
Total phase (deg)			0.0						0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 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  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 t: az 109.2 el 17.0 pa -52.6 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tt.W.157.1W6AM6 simultaneous interpolator

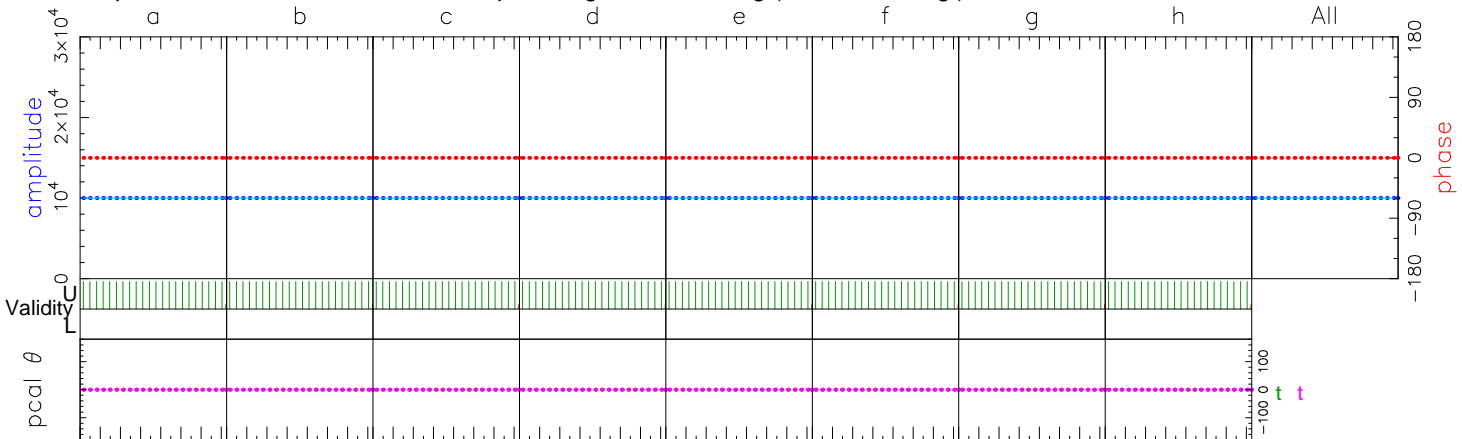


Fringe quality 9

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  
Yr:day 16383  
Start 2021:114  
Stop 2021:114  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012822  
2021:252:122852  
RA & Dec (J2000) 12h56m11.166577s --5°47'21.525129"

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
t	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
t:t	0:0	0:0	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	10000.0	10000.0
t	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.7E-14
Total phase (deg)			0.0						0.0	+/- 0.0

ph/seg (deg) 0.0 0.0  
amp/seg (%) 0.0 0.0  
ph/frq (deg) 0.0 0.0  
amp/frq (%) 0.0 0.0

t: az 109.2 el 17.0 pa -52.6  
Control file: cf\_1234\_gmva

u,v (fr/asec) 0.000 0.000  
simultaneous interpolator

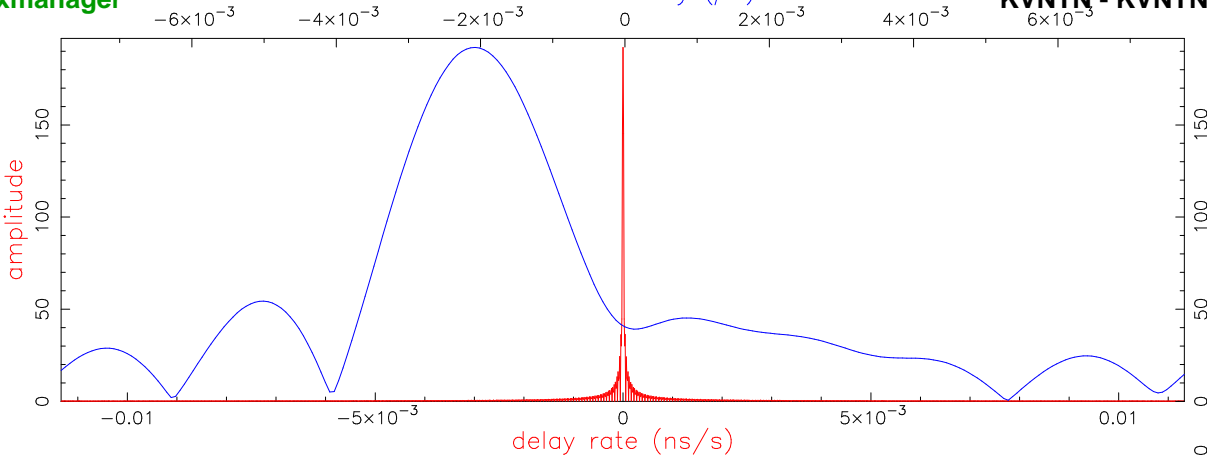
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, tt

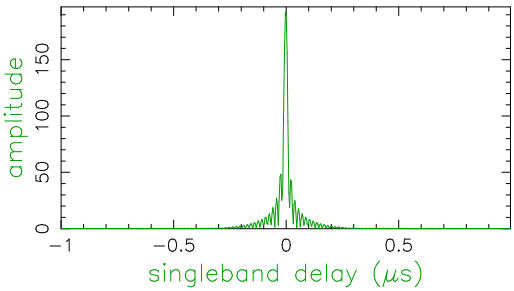
KVNTN - KVNTN, fgroup W, pol LR

multiband delay ( $\mu$ s)

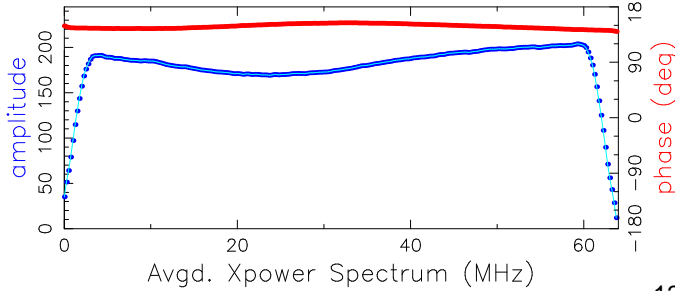


Fringe quality 7

SNR 11036.1  
 Int time 419.840  
 Amp 196.959  
 Phase 149.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.001989  
 MBD -0.002110  
 Fringe rate (Hz)  
 0.000011  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

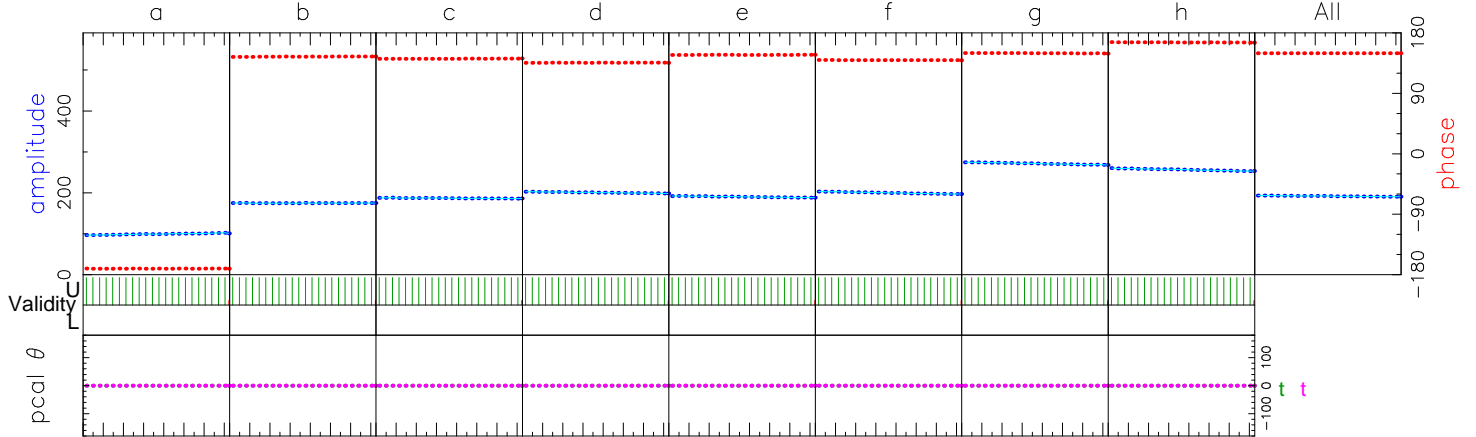


delay rate (ns/s)



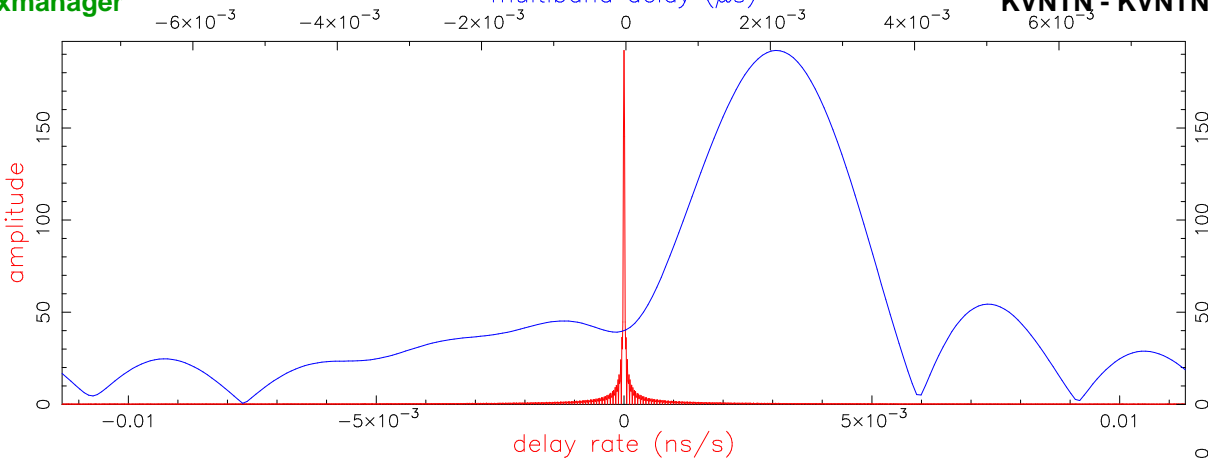
Exp. c211a  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012826  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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



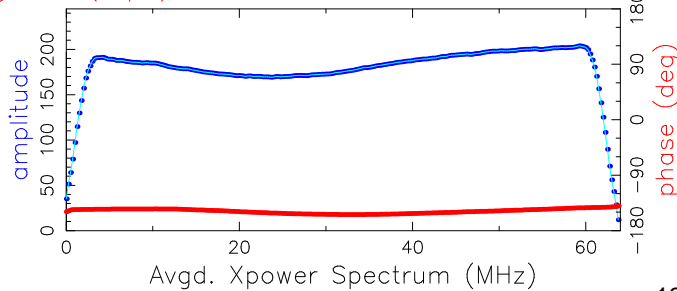
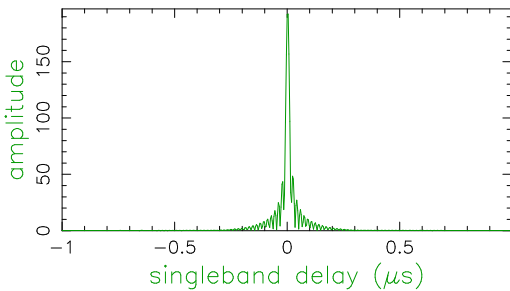
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-2.11003125000E-03								Resid mbdelay (usec)	-2.11003E-03 +/- 9.8E-08
Sband delay (usec)	-1.98925000000E-03								Resid sbdelay (usec)	-1.98925E-03 +/- 7.8E-07
Phase delay (usec)	4.82395193348E-06								Resid phdelay (usec)	4.82395E-06 +/- 3.3E-10
Delay rate (us/s)	1.24706141047E-10								Resid rate (us/s)	1.24706E-10 +/- 1.4E-12
Total phase (deg)			149.6						Resid phase (deg)	149.6 +/- 0.0
ph/seg (deg)	0.1	0.0							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	2.5	0.0							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	19.3	0.0							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	24.9	0.0							Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
t: az 109.2 el 17.0 pa -52.6									Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva									nlags: 256 t_cohere infinite	simultaneous interpolator

multiband delay ( $\mu$ s)



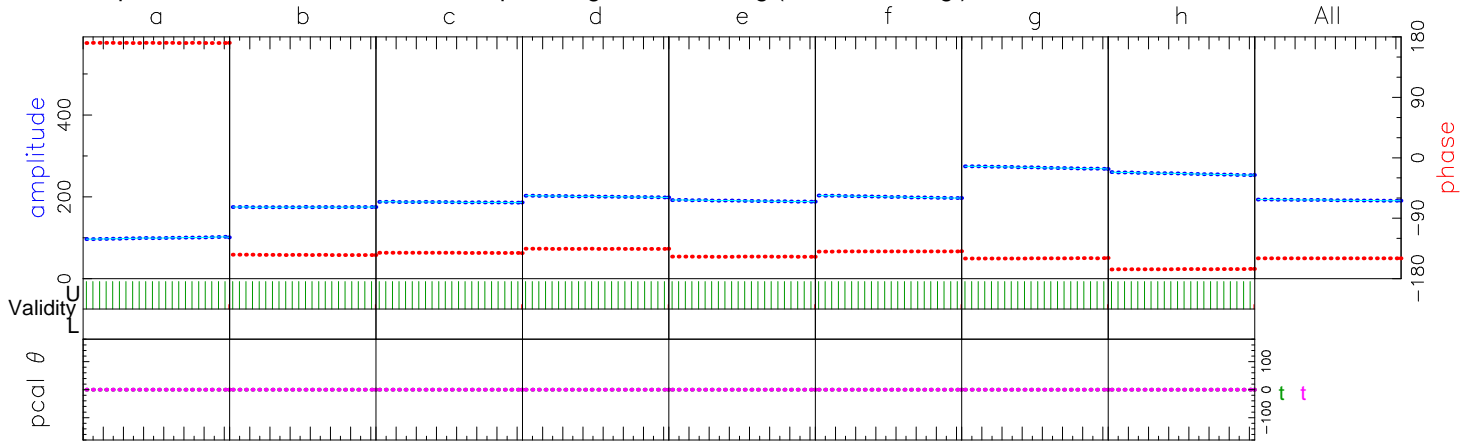
Fringe quality 7

SNR 11036.1  
Int time 419.840  
Amp 196.959  
Phase -149.6  
PFD 0.0e+00  
Delays (us)  
SBD 0.001989  
MBD 0.002110  
Fringe rate (Hz)  
-0.000011  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



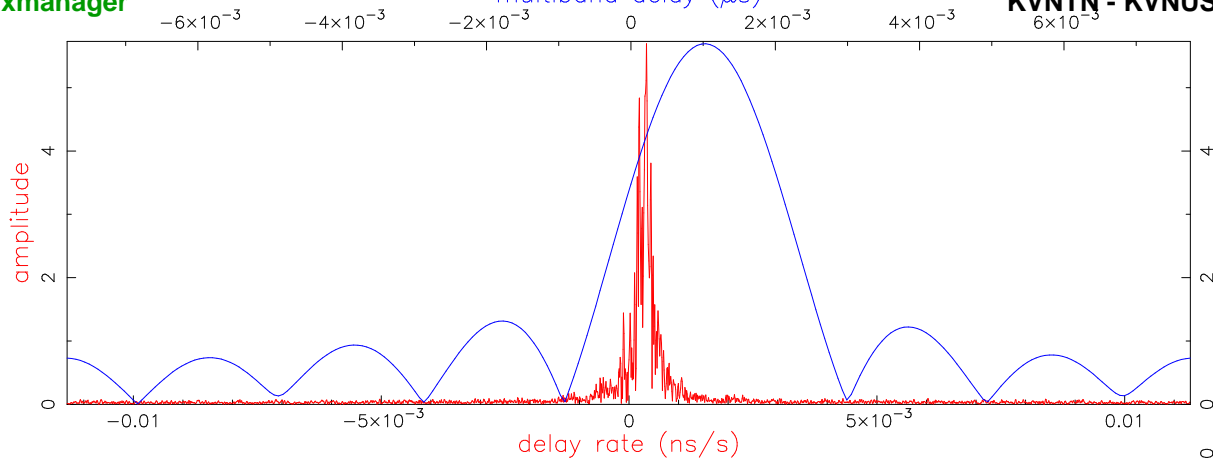
Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012829  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
--5°47'21.525129"

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



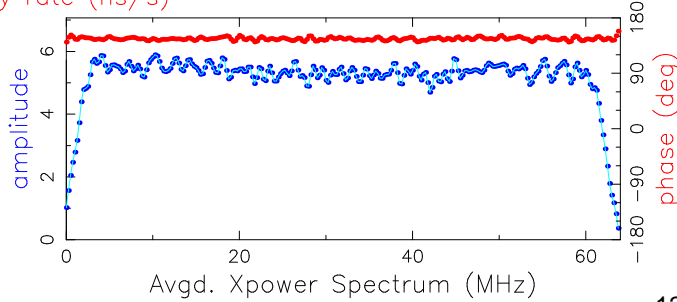
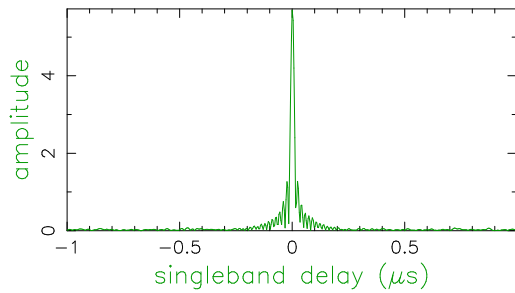
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.11003125000E-03								2.11003E-03	+/- 9.8E-08
Sband delay (usec)	1.98925000000E-03								1.98925E-03	+/- 7.8E-07
Phase delay (usec)	-4.82395193351E-06								-4.82395E-06	+/- 3.3E-10
Delay rate (us/s)	-1.24706141047E-10								-1.24706E-10	+/- 1.4E-12
Total phase (deg)			-149.6						-149.6	+/- 0.0
	RMS	Theor.	Amplitude	196.959 +/- 0.018					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.1	0.0	Search (2048X32)	190.832					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	2.5	0.0	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	19.3	0.0	Inc. seg. avg.	192.035					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	24.9	0.0	Inc. frq. avg.	197.655					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
t: az 109.2 el 17.0 pa -52.6			t: az 109.2 el 17.0 pa -52.6						u, v (fr/asec) 0.000 0.000	simultaneous interpolator

multiband delay ( $\mu$ s)



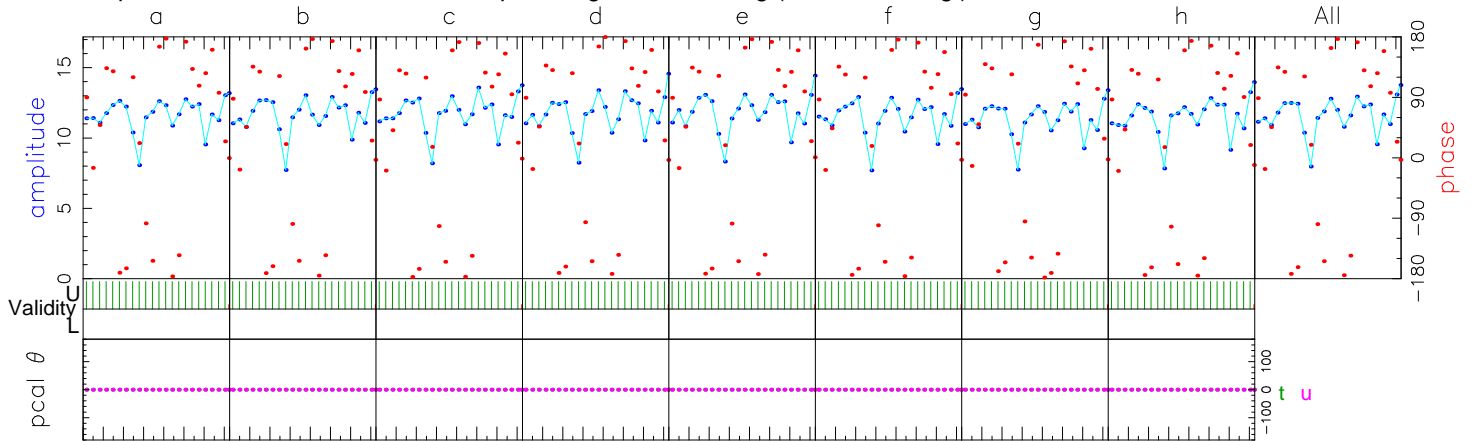
Fringe quality 5

SNR 321.0  
Int time 419.840  
Amp 5.730  
Phase 145.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.000992  
MBD 0.001025  
Fringe rate (Hz)  
0.030955  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012820  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
--5°47'21.525129"

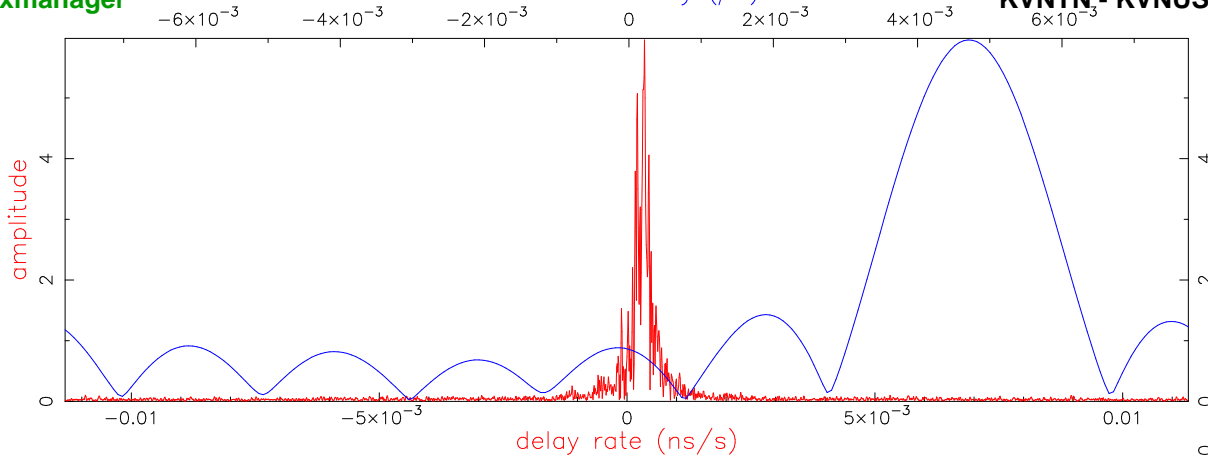
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



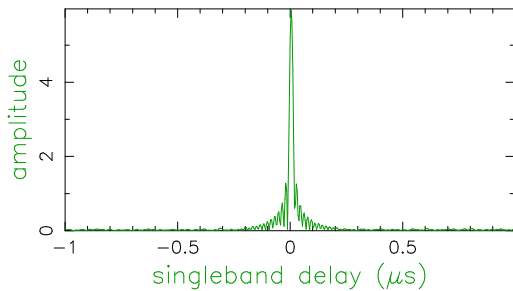
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	145.5	145.9	142.6	147.7	146.2	143.7	149.7	142.3	Phase	145.4
	5.8	5.7	5.7	5.7	5.8	5.7	5.6	5.6	Ampl.	5.7
	257.3	257.2	257.3	257.3	257.2	257.3	257.3	257.2	Sbd box	257.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.87827457735E+02					-4.87828482261E+02			Resid mbdelay (usec)	1.02453E-03 +/- 3.4E-06
Sband delay (usec)	-4.87827489761E+02					-1.4790710E+01			Resid sbdelay (usec)	9.92500E-04 +/- 2.7E-05
Phase delay (usec)	-4.87828477571E+02					-1.3269999E-06			Resid phdelay (usec)	4.69019E-06 +/- 1.2E-08
Delay rate (us/s)	5.87515701847E-02					5.87512108270E-02			Resid rate (us/s)	3.59358E-07 +/- 4.7E-11
Total phase (deg)			-20.9			2.89152218680E-06			Resid phase (deg)	145.4 +/- 0.4
	RMS	Theor.	Amplitude	5.730 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	70.3	0.9	Search (2048X32)	5.460					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	104.2	1.5	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	2.7	0.5	Inc. seg. avg.	11.584					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	1.6	0.9	Inc. frq. avg.	5.700					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
t: az 109.2 el 17.0 pa -52.6			u: az 111.7 el 18.4 pa -49.2			u,v (fr/asec) -334.906 -309.767			nlags: 256 t_cohere infinite	simultaneous interpolator

multiband delay ( $\mu$ s)

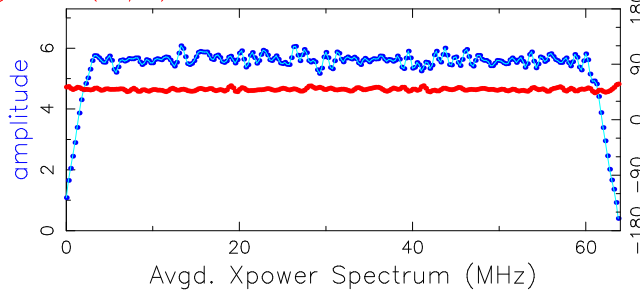
Fringe quality 5



SNR 335.0  
Int time 419.840  
Amp 5.982  
Phase 48.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.004690  
MBD 0.004714  
Fringe rate (Hz)  
0.030980  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

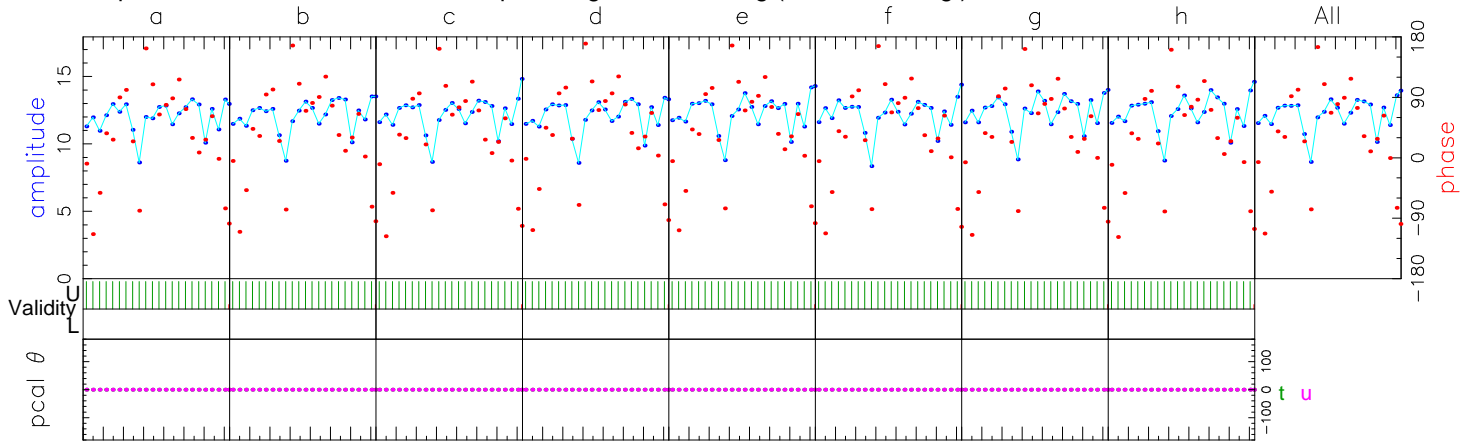


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012823  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
--5°47'21.525129"

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

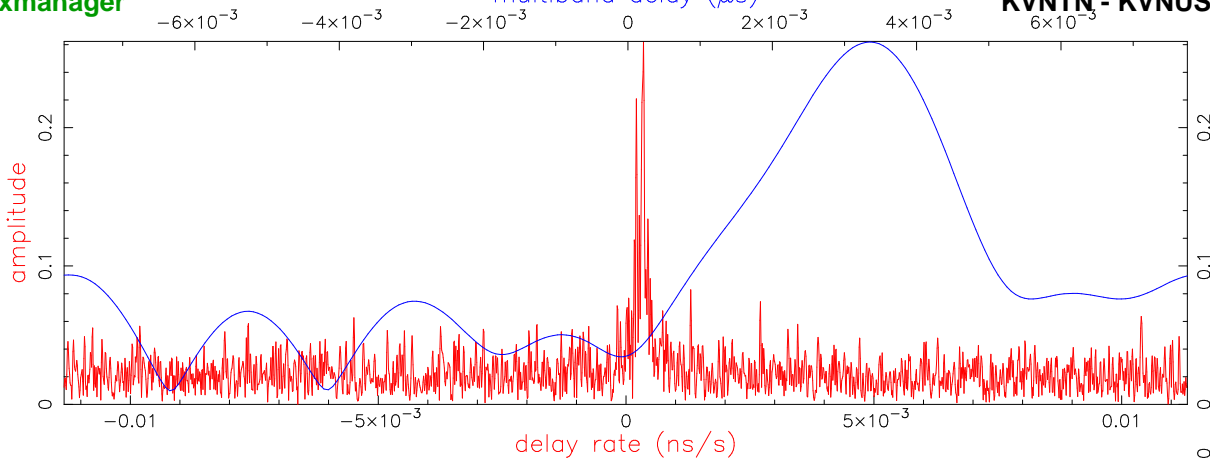


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.87823768016E+02				-4.87828482261E+02				4.71425E-03	+/- 3.2E-06
Sband delay (usec)	-4.87823792261E+02				-1.4790710E+01				4.69000E-03	+/- 2.6E-05
Phase delay (usec)	-4.87828480687E+02				-1.3269999E-06				1.57379E-06	+/- 1.1E-08
Delay rate (us/s)	5.87515704752E-02				5.87512108270E-02				3.59648E-07	+/- 4.6E-11
Total phase (deg)			-117.5		2.89152218680E-06				48.8	+/- 0.3
ph/seg (deg)	70.2	0.8			5.553				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	105.0	1.4			0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	3.2	0.5			12.157				Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	1.0	0.8			5.966				Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
									Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

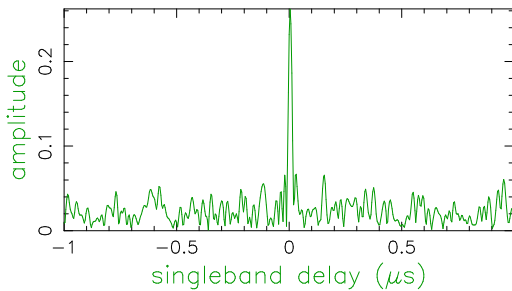
t: az 109.2 el 17.0 pa -52.6 u: az 111.7 el 18.4 pa -49.2 u,v (fr/asec) -334.906 -309.767 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/tu..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tu.W.173.1W6AM6

multiband delay ( $\mu$ s)

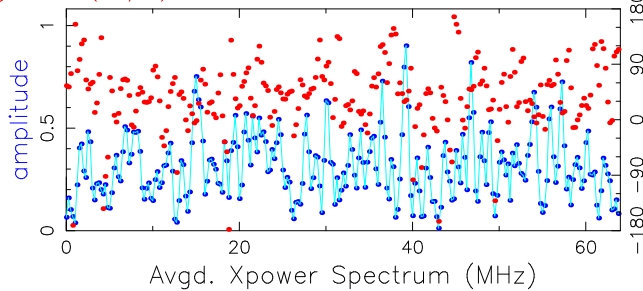
Fringe quality 7



SNR 14.7  
Int time 419.840  
Amp 0.262  
Phase 55.7  
PFD 4.3e-40  
Delays (us)  
SBD 0.004425  
MBD 0.003355  
Fringe rate (Hz)  
0.030722  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

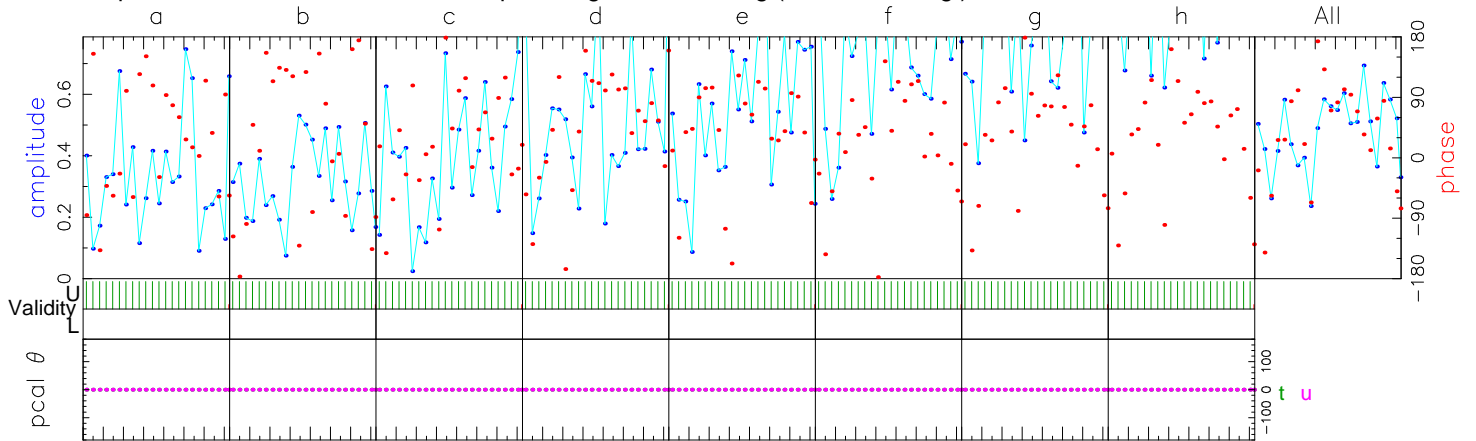


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012827  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
-5°47'21.525129"

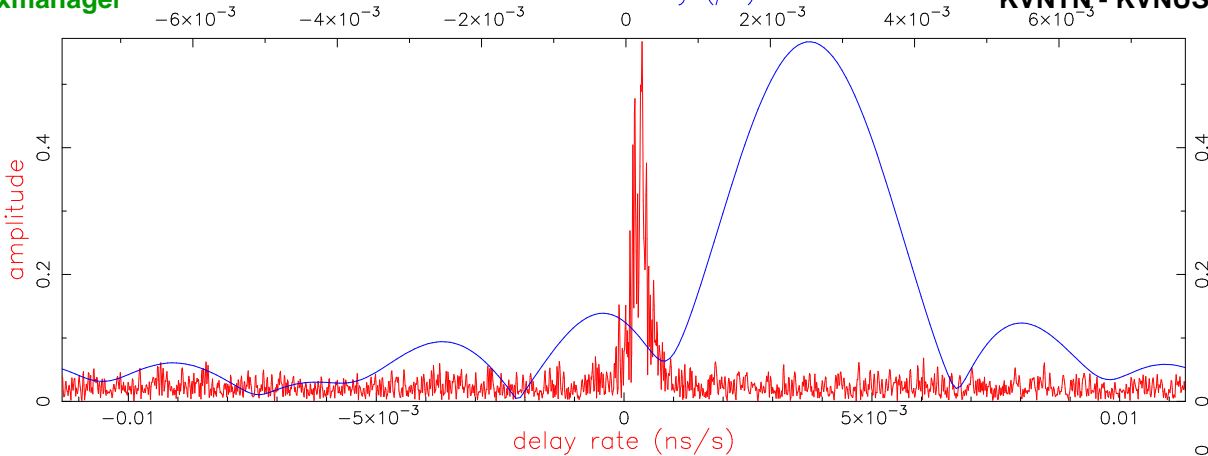
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



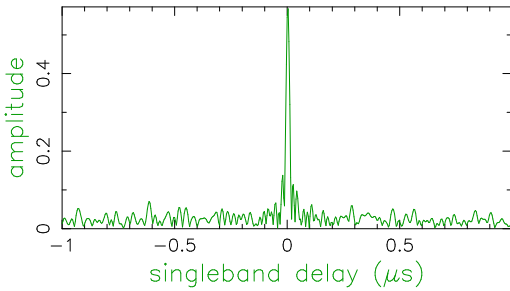
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-4.87825126891E+02								3.35537E-03	+/- 7.4E-05
Sband delay (usec)	-4.87824057511E+02								4.42475E-03	+/- 5.9E-04
Phase delay (usec)	-4.87828480466E+02								1.79481E-06	+/- 2.5E-07
Delay rate (us/s)	5.87515674830E-02								3.56656E-07	+/- 1.0E-09
Total phase (deg)			-110.7						55.7	+/- 7.8
	RMS	Theor.	Amplitude	0.262 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	70.0	18.7	Search (2048X32)	0.253					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	96.0	32.6	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	43.6	11.0	Inc. seg. avg.	0.462					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	64.5	19.2	Inc. frq. avg.	0.274					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
t: az 109.2 el 17.0 pa -52.6			u: az 111.7 el 18.4 pa -49.2						nlags: 256	t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0213/tu..1W6AM6							simultaneous interpolator
			Output file: /Exps/c211a/v2/1234/No0213/tu.W.188.1W6AM6							

multiband delay ( $\mu$ s)

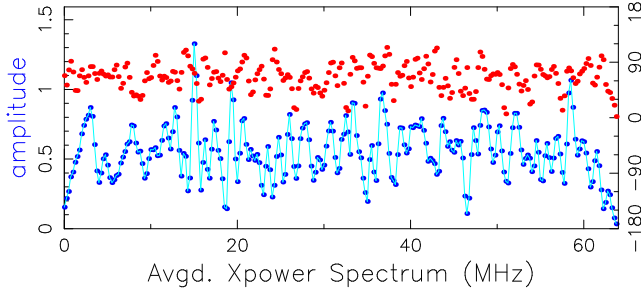
Fringe quality 7



SNR 32.1  
Int time 419.840  
Amp 0.572  
Phase 69.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.002728  
MBD 0.002541  
Fringe rate (Hz)  
0.031054  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

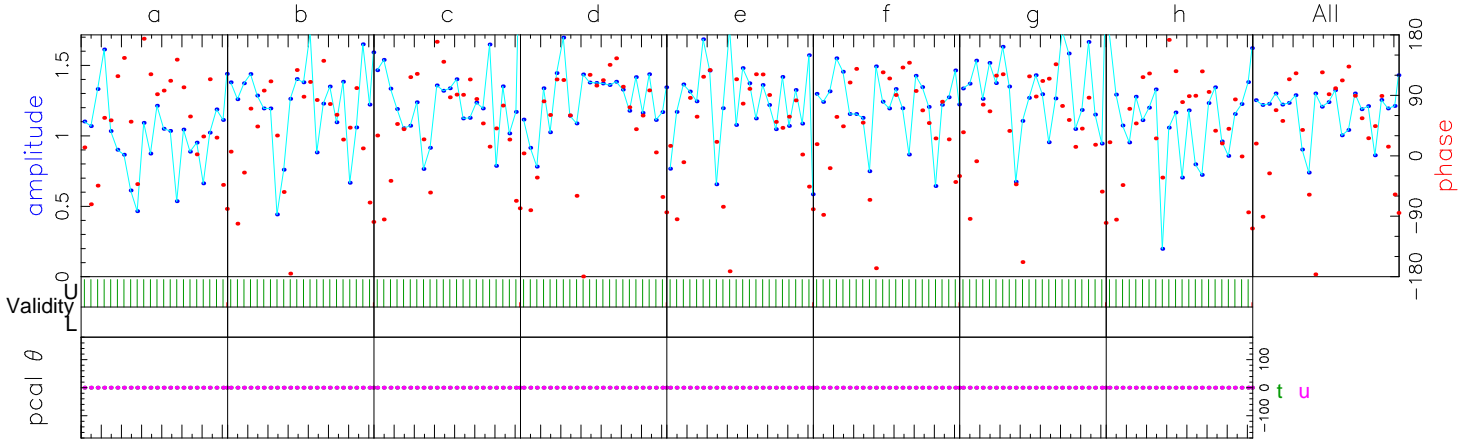


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 100000.00  
Stop 100659.84  
FRT 100330.00  
Corr/FF/build  
2021:286:232445  
2021:287:012830  
2021:252:122852  
RA & Dec (J2000)  
12h56m11.166577s  
-5°47'21.525129"

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	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-4.87825941725E+02								2.54054E-03	+/- 3.4E-05
Sband delay (usec)	-4.87825754261E+02								2.72800E-03	+/- 2.7E-04
Phase delay (usec)	-4.87828480009E+02								2.25226E-06	+/- 1.2E-07
Delay rate (us/s)	5.87515713382E-02								3.60511E-07	+/- 4.8E-10
Total phase (deg)			-96.5						69.8	+/- 3.6
Apriori delay (usec)					-4.87828482261E+02					
Apriori clock (usec)					-1.4790710E+01					
Apriori clockrate (us/s)					-1.3269999E-06					
Apriori rate (us/s)					5.87512108270E-02					
Apriori accel (us/s/s)					2.89152218680E-06					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
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) 70.4 8.6 Search (2048X32) 0.544 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 108.2 15.0 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 9.7 5.1 Inc. seg. avg. 1.159 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 12.8 8.8 Inc. frq. avg. 0.571 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 109.2 el 17.0 pa -52.6 u: az 111.7 el 18.4 pa -49.2 u,v (fr/asec) -334.906 -309.767 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/No0213/tu..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/tu.W.201.1W6AM6 simultaneous interpolator



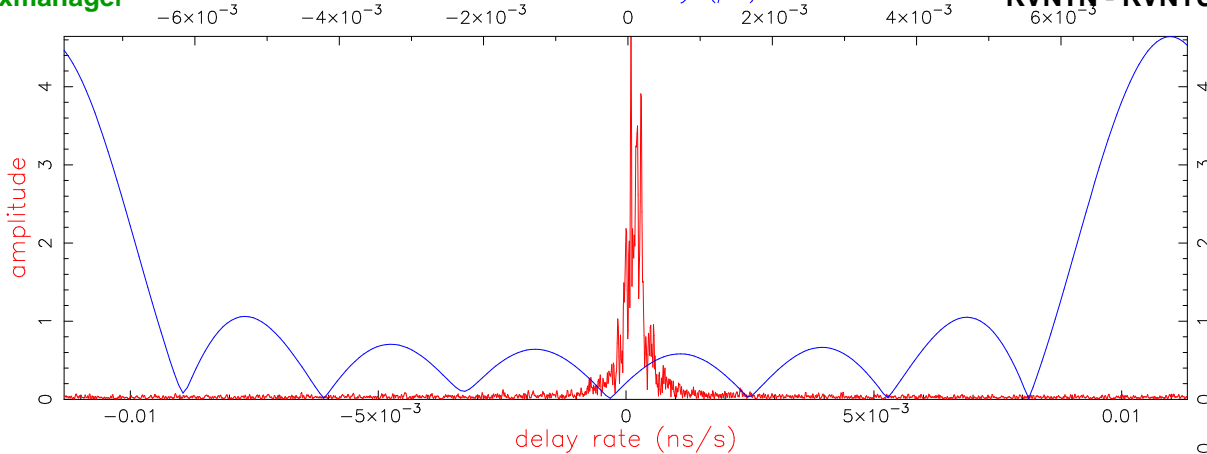
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, ty

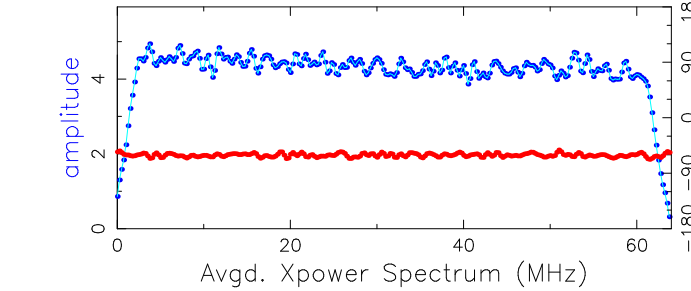
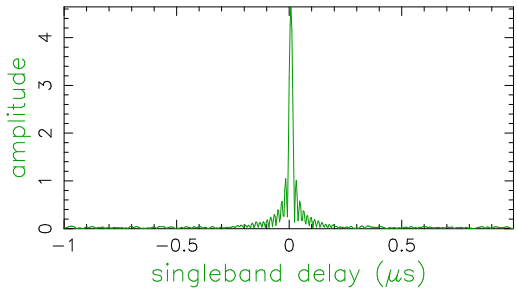
KVNTN - KVNYS, fgroup W, pol LL

multiband delay ( $\mu$ s)



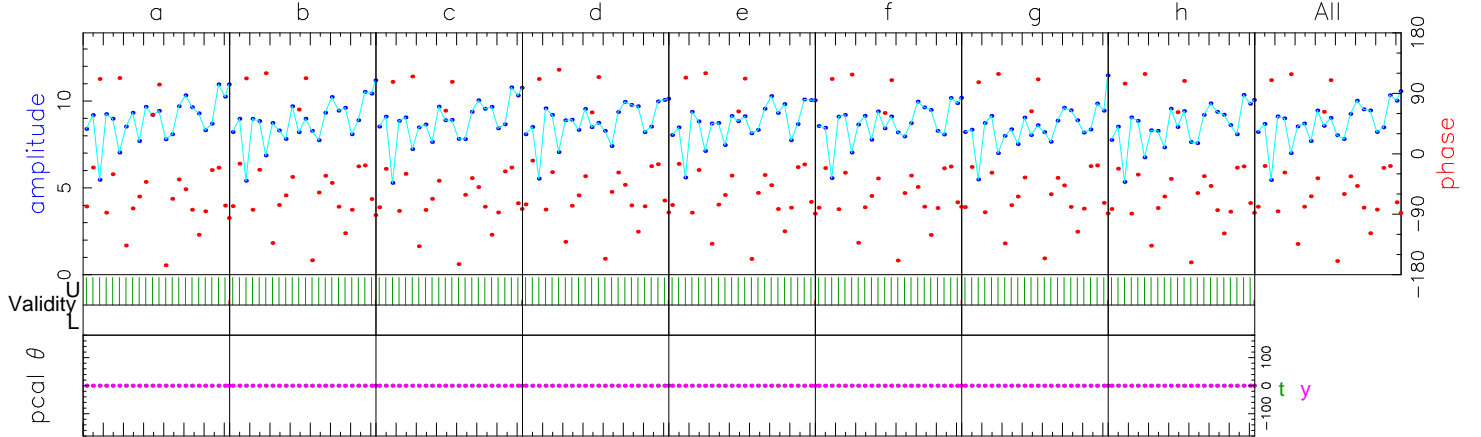
Fringe quality 5

SNR 260.2  
 Int time 419.840  
 Amp 4.644  
 Phase -60.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.007547  
 MBD 0.007511  
 Fringe rate (Hz)  
 0.008806  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012820  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 --5°47'21.525129"

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
	-62.3	-58.3	-61.9	-58.2	-58.9	-60.8	-60.2	-61.4	Phase	-60.3
	4.8	4.7	4.7	4.7	4.6	4.7	4.5	4.5	Ampl.	4.6
	259.0	259.0	258.9	259.1	258.8	258.9	259.0	258.8	Sbd box	258.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.00186657749E+02		Apriori delay (usec)		4.00179146256E+02		Resid mbdelay (usec)		7.51149E-03	+/- 4.2E-06
Sband delay (usec)	4.00186693006E+02		Apriori clock (usec)		-9.7704315E-01		Resid sbdelay (usec)		7.54675E-03	+/- 3.3E-05
Phase delay (usec)	4.00179144312E+02		Apriori clockrate (us/s)		-2.0000000E-07		Resid phdelay (usec)		-1.94324E-06	+/- 1.4E-08
Delay rate (us/s)	6.45150195774E-02		Apriori rate (us/s)		6.45149173481E-02		Resid rate (us/s)		1.02229E-07	+/- 5.9E-11
Total phase (deg)	176.8		Apriori accel (us/s/s)		-1.42796678066E-06		Resid phase (deg)		-60.3	+/- 0.4

ph/seg (deg) 77.6 1.1 Search (2048X32) 4.487 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 90.0 1.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 1.8 0.6 Inc. seg. avg. 8.680 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 1.8 1.1 Inc. frq. avg. 4.643 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 109.2 el 17.0 pa -52.6 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) -373.400 -524.145 ion window (TEC) 0.00 0.00  
 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ty..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ty.W.160.1W6AM6

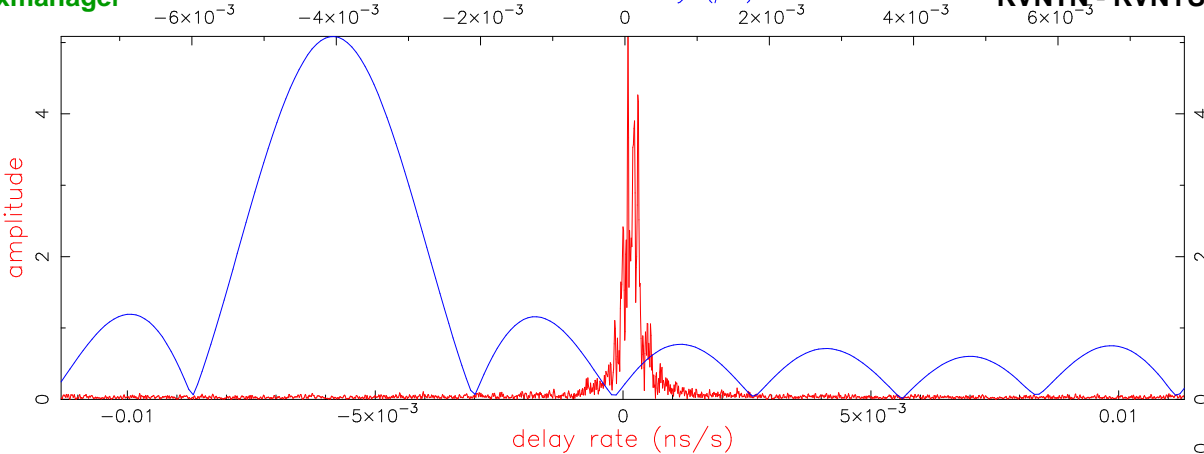
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, ty

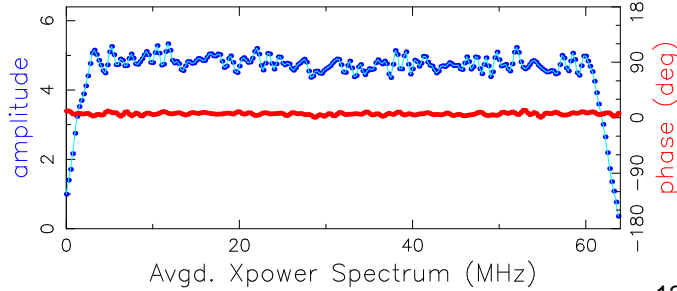
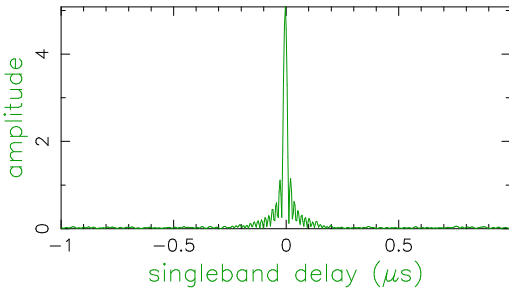
KVNTN - KVNYs, fgroup W, pol RR

multiband delay ( $\mu$ s)



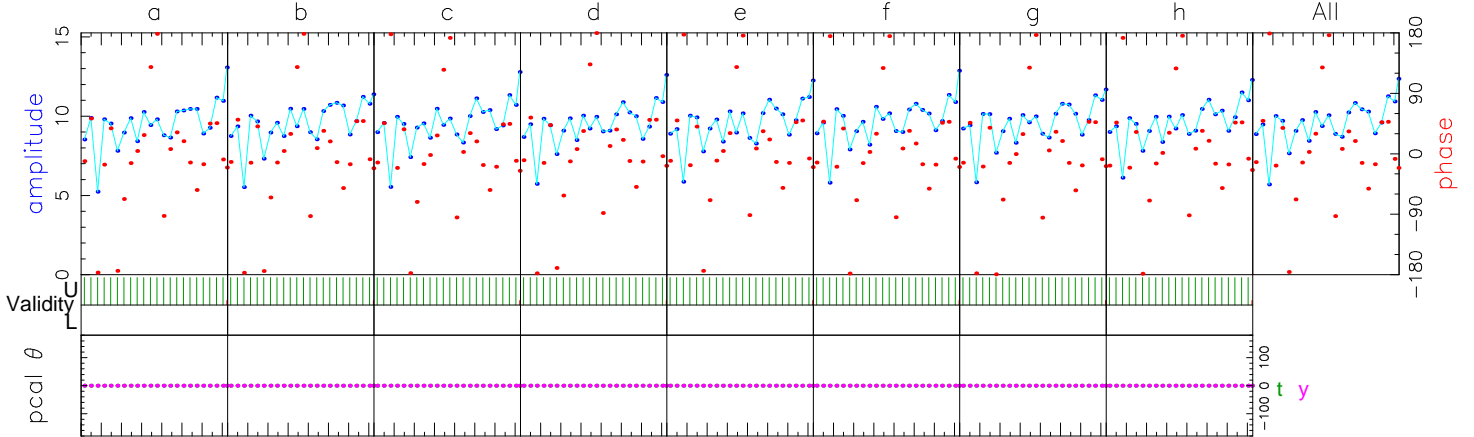
Fringe quality 5

SNR 285.0  
 Int time 419.840  
 Amp 5.086  
 Phase 6.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.004060  
 MBD -0.004047  
 Fringe rate (Hz)  
 0.008814  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012823  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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		256.0
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	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)	4.00175098967E+02				4.00179146256E+02				Resid mbdelay (usec)	-4.04729E-03 +/- 3.8E-06
Sband delay (usec)	4.00175086006E+02				-9.7704315E-01				Resid sbdelay (usec)	-4.06025E-03 +/- 3.0E-05
Phase delay (usec)	4.00179146456E+02				-2.0000000E-07				Resid phdelay (usec)	2.00727E-07 +/- 1.3E-08
Delay rate (us/s)	6.45150196738E-02				6.45149173481E-02				Resid rate (us/s)	1.02326E-07 +/- 5.3E-11
Total phase (deg)		243.3			-1.42796678066E-06				Resid phase (deg)	6.2 +/- 0.4
	RMS	Theor.	Amplitude	5.086 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	77.8	1.0	Search (2048X32)	4.913	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	89.9	1.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	2.0	0.6	Inc. seg. avg.	9.495	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.5	1.0	Inc. frq. avg.	5.087	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 109.2 el 17.0 pa -52.6 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) -373.400 -524.145 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ty..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ty.W.174.1W6AM6



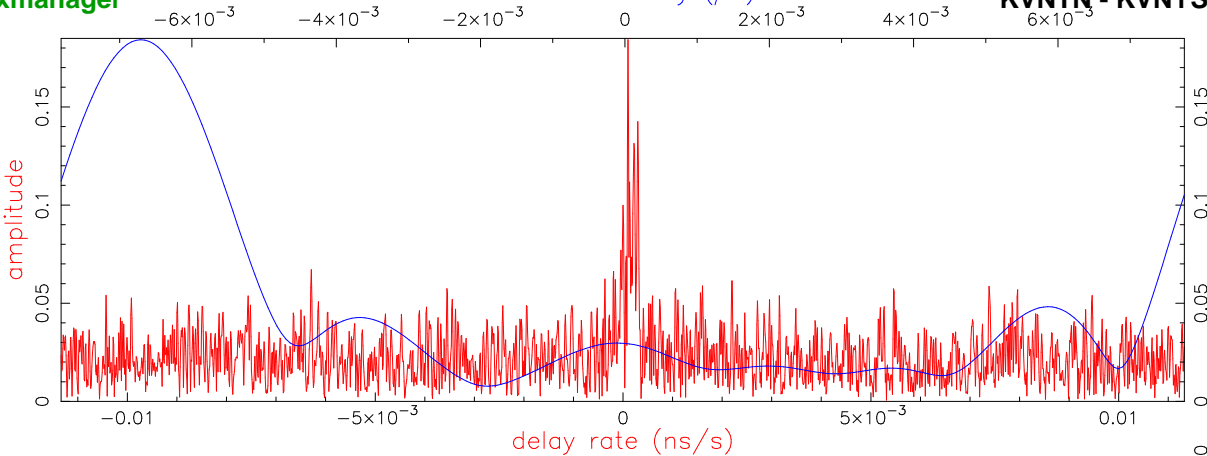
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, ty

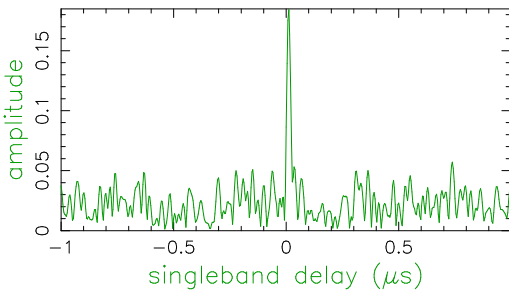
KVNTN - KVNYS, fgroup W, pol RL

multiband delay ( $\mu$ s)

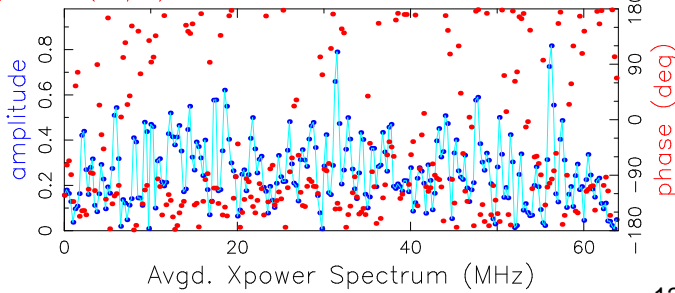


Fringe quality 9

SNR 10.4  
 Int time 419.840  
 Amp 0.185  
 Phase 65.8  
 PFD 1.7e-16  
 Delays (us)  
 SBD 0.010890  
 MBD -0.006702  
 Fringe rate (Hz)  
 0.008852  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

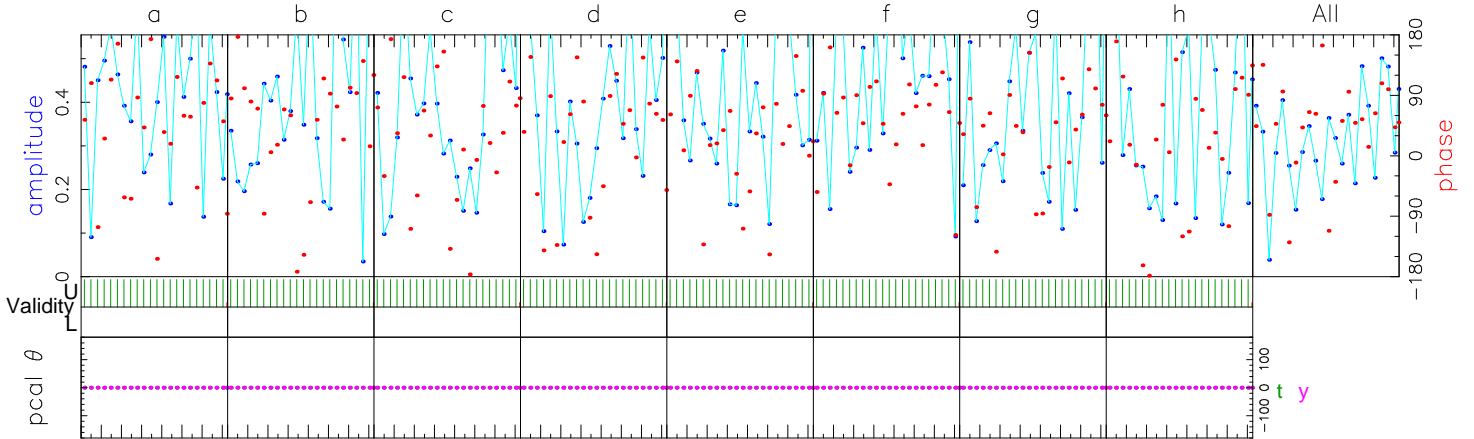


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 100000.00  
 Stop 100659.84  
 FRT 100330.00  
 Corr/FF/build  
 2021:286:232445  
 2021:287:012830  
 2021:252:122852  
 RA & Dec (J2000)  
 12h56m11.166577s  
 -5°47'21.525129"

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					
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0					
ty	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)		4.00188069124E+02			4.00179146256E+02				Resid mbdelay (usec)	-6.70213E-03	+/- 1.0E-04		
Sband delay (usec)		4.00190036006E+02			-9.7704315E-01				Resid sbdelay (usec)	1.08897E-02	+/- 8.3E-04		
Phase delay (usec)		4.00179148378E+02			-2.0000000E-07				Resid phdelay (usec)	2.12265E-06	+/- 3.6E-07		
Delay rate (us/s)		6.45150201102E-02			6.45149173481E-02				Resid rate (us/s)	1.02762E-07	+/- 1.5E-09		
Total phase (deg)			302.9		-1.42796678066E-06				Resid phase (deg)	65.8	+/- 11.1		
	RMS	Theor.	Amplitude	0.185 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's)	5, 5			
ph/seg (deg)	74.7	26.5	Search (2048X32)	0.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000	1.000		
amp/seg (%)	90.8	46.3	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	9.4	15.6	Inc. seg. avg.	0.281	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011	0.011		
amp/frq (%)	31.4	27.3	Inc. frq. avg.	0.179	Data rate(Mb/s): 2048				nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 109.2 el 17.0 pa -52.6 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) -373.400 -524.145 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0213/ty..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/ty.W.202.1W6AM6