

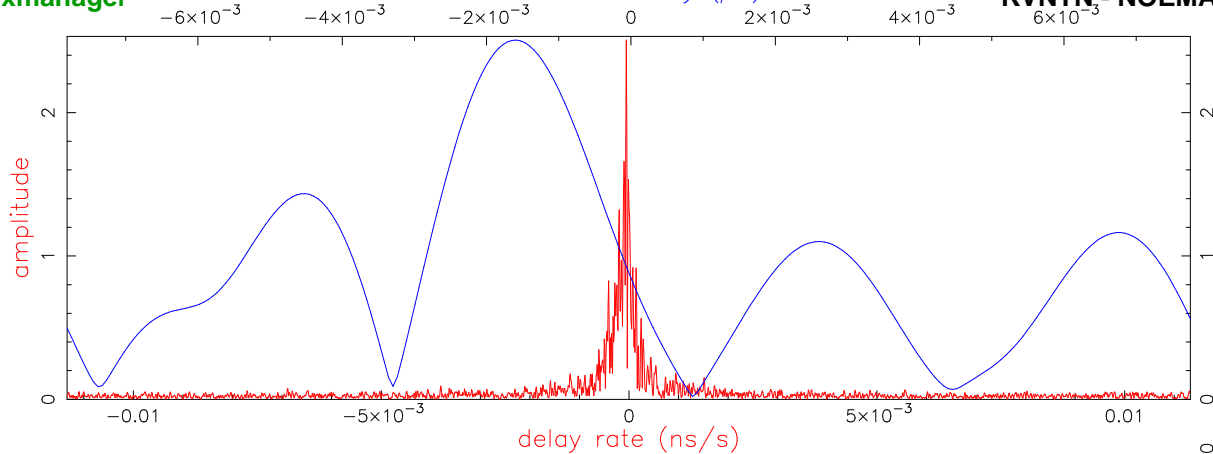
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, tN

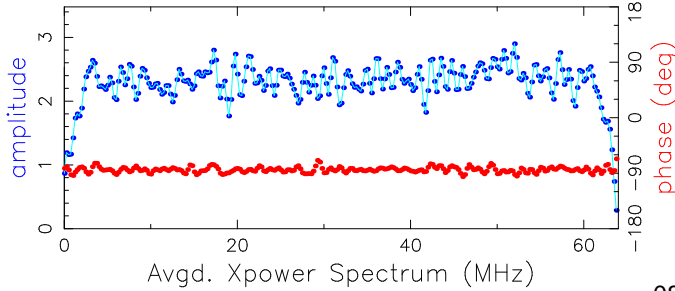
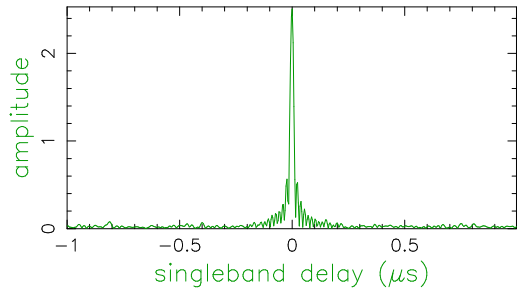
KVNTN- NOEMA, fgroup W, pol LL

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



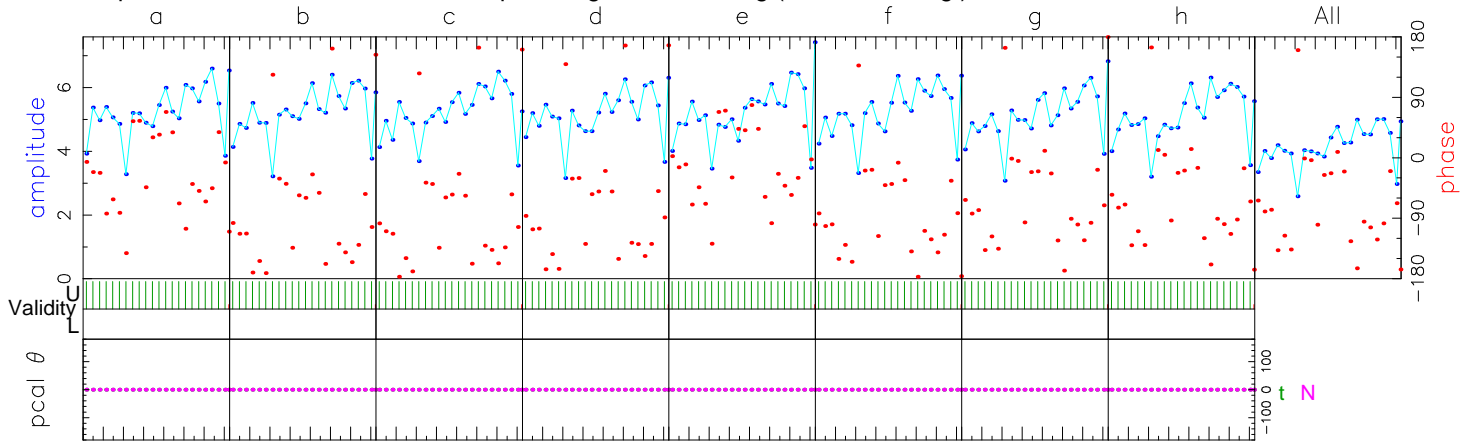
Fringe quality 2

SNR 141.8  
 Int time 419.771  
 Amp 2.531  
 Phase -80.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.001257  
 MBD -0.001605  
 Fringe rate (Hz)  
 -0.005239  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 140000.00  
 Stop 140659.84  
 FRT 140330.00  
 Corr/FF/build  
 2022:005:180117  
 2022:006:101652  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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
	-24.4	-113.7	-115.6	-108.5	-14.8	-96.1	-79.0	-74.5	Phase	-80.5
	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	Ampl.	3.1
	256.6	256.5	256.8	256.8	256.5	256.8	256.8	256.7	Sbd box	256.7
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	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.59299584399E+03		Apriori delay (usec)		1.59299744938E+03		Resid mbdelay (usec)		-1.60539E-03	+/- 7.7E-06
Sband delay (usec)	1.59299619238E+03		Apriori clock (usec)		1.3082477E+01		Resid sbdelay (usec)		-1.25700E-03	+/- 6.1E-05
Phase delay (usec)	1.59299744679E+03		Apriori clockrate (us/s)		1.2500000E-07		Resid phdelay (usec)		-2.59441E-06	+/- 2.6E-08
Delay rate (us/s)	-1.95401872086E+00		Apriori rate (us/s)		-1.95401866004E+00		Resid rate (us/s)		-6.08198E-08	+/- 1.1E-10
Total phase (deg)	23.9		Apriori accel (us/s/s)		-1.43506996696E-05		Resid phase (deg)		-80.5	+/- 0.8

	RMS	Theor.	Amplitude	2.531 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.0	1.9	Search (2048X32)	2.290	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	68.1	3.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	42.5	1.1	Inc. seg. avg.	4.142	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	22.6	2.0	Inc. frq. avg.	3.103	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

t: az 270.0 el 38.6 pa 62.9 N: az 92.9 el 32.0 pa -49.1 u,v (fr/asec) 11895.194 -1736.420 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/tN..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/tN.W.20.20HFN2

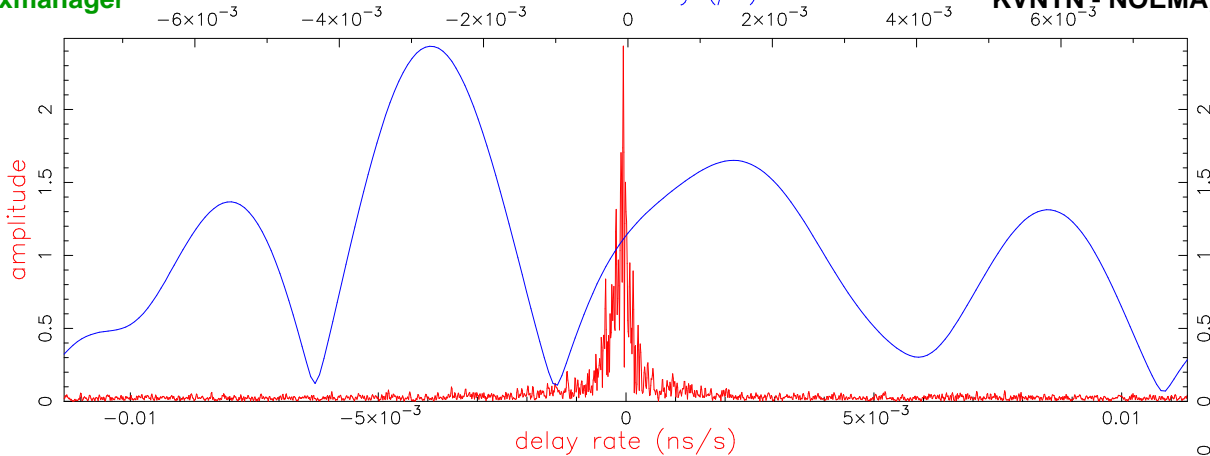
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, tN

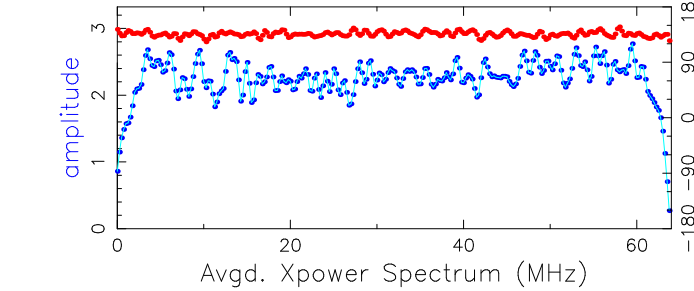
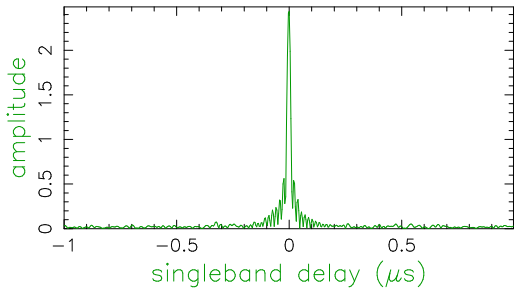
KVNTN - NOEMA, fgroup W, pol RR

multiband delay ( $\mu$ s)



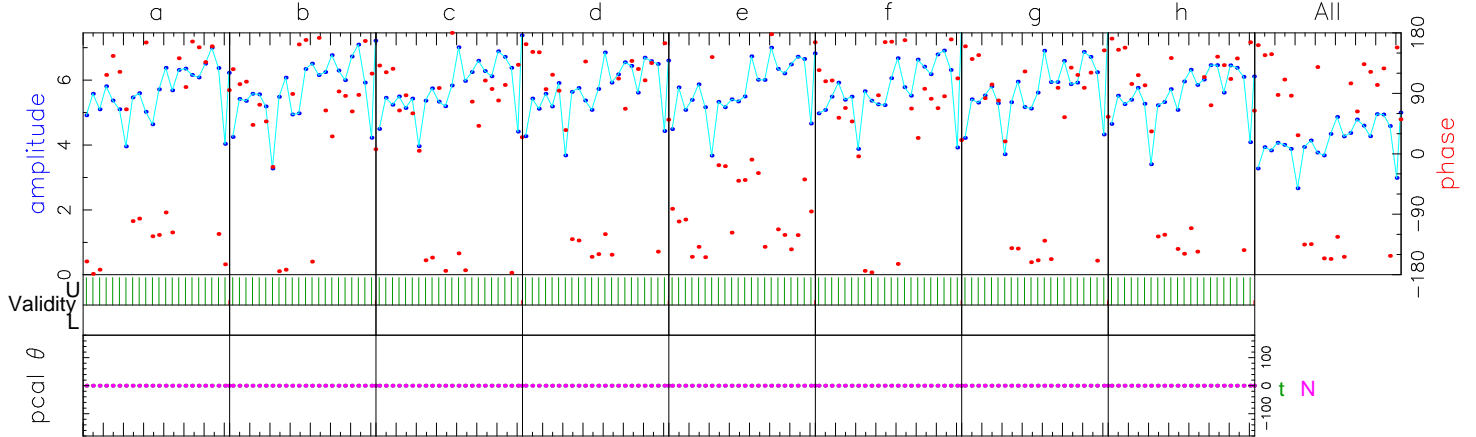
Fringe quality 2

SNR 139.3  
 Int time 419.771  
 Amp 2.486  
 Phase 146.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.001823  
 MBD -0.002735  
 Fringe rate (Hz)  
 -0.005234  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 140000.00  
 Stop 140659.84  
 FRT 140330.00  
 Corr/FF/build  
 2022:005:180117  
 2022:006:101655  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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
	-179.1	107.7	121.5	152.3	-98.7	106.9	141.3	156.8	Phase	146.3
	3.3	3.3	3.3	3.4	3.4	3.4	3.3	3.3	Ampl.	3.3
	256.4	256.5	256.5	256.6	256.5	256.7	256.6	256.5	Sbd box	256.5
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	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.59299471412E+03		Apriori delay (usec)		1.59299744938E+03		Resid mbdelay (usec)		-2.73527E-03	+/- 7.8E-06
Sband delay (usec)	1.59299562613E+03		Apriori clock (usec)		1.3082477E+01		Resid sbdelay (usec)		-1.82325E-03	+/- 6.2E-05
Phase delay (usec)	1.59299745410E+03		Apriori clockrate (us/s)		1.2500000E-07		Resid phdelay (usec)		4.71661E-06	+/- 2.7E-08
Delay rate (us/s)	-1.95401872080E+00		Apriori rate (us/s)		-1.95401866004E+00		Resid rate (us/s)		-6.07616E-08	+/- 1.1E-10
Total phase (deg)	250.6		Apriori accel (us/s/s)		-1.43506996696E-05		Resid phase (deg)		146.3	+/- 0.8

ph/seg (deg) 56.6 2.0 Search (2048X32) 2.193 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 69.3 3.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 55.2 1.2 Inc. seg. avg. 4.102 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 34.4 2.0 Inc. frq. avg. 3.340 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 270.0 el 38.6 pa 62.9 N: az 92.9 el 32.0 pa -49.1 u,v (fr/asec) 11895.194 -1736.420 ion window (TEC) 0.00 0.00 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/tN..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/tN.W.36.20HFN2

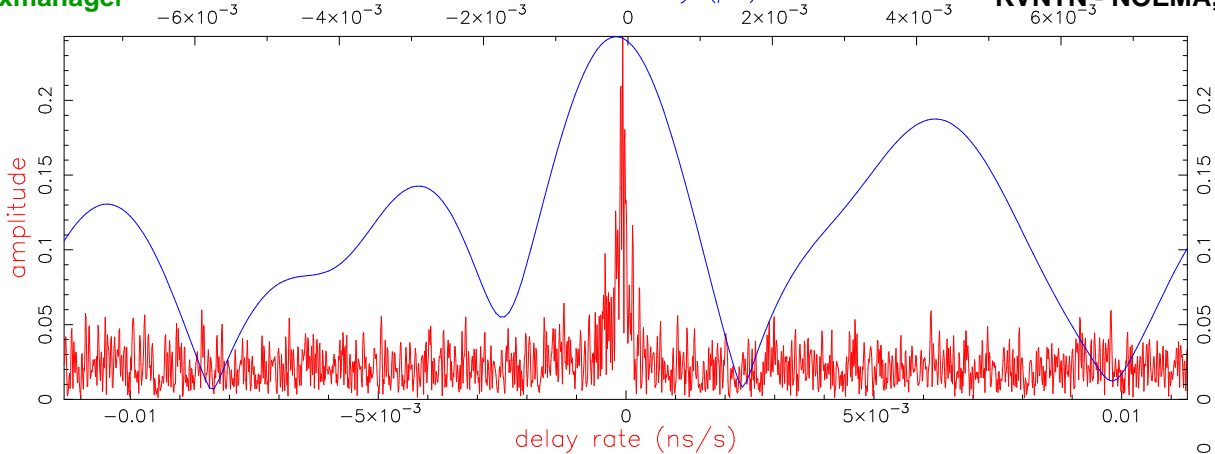
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, tN

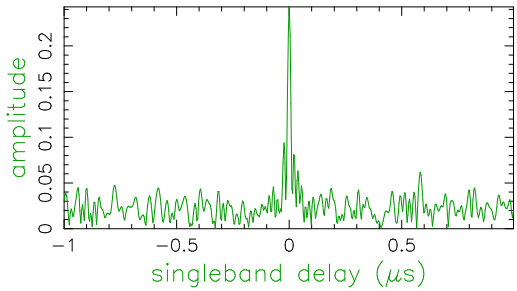
KVNTN- NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

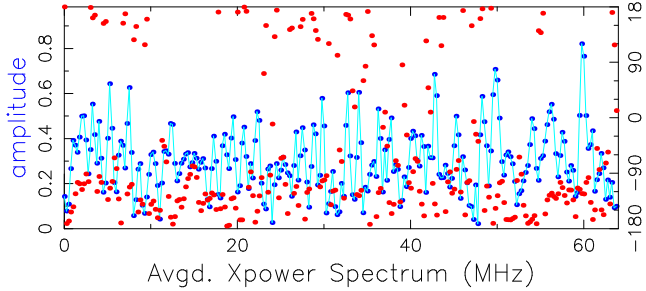


Fringe quality 9

SNR 13.6  
 Int time 419.771  
 Amp 0.243  
 Phase -137.9  
 PFD 2.2e-33  
 Delays (us)  
 SBD -0.000225  
 MBD -0.000163  
 Fringe rate (Hz)  
 -0.005346  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

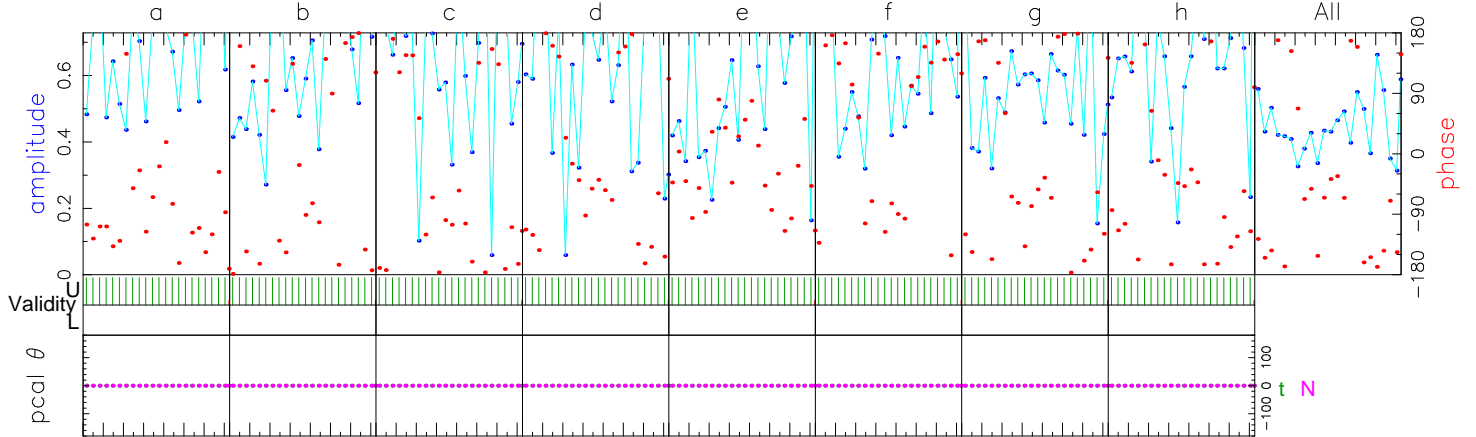


delay rate (ns/s)



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 140000.00  
 Stop 140659.84  
 FRT 140330.00  
 Corr/FF/build  
 2022:005:180117  
 2022:006:101659  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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
	-98.6	-179.0	-168.2	-127.0	-19.8	173.8	-135.1	-117.4	Phase	-137.9
	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	Ampl.	0.3
	256.8	257.2	257.2	257.1	257.9	257.3	257.2	256.6	Sbd box	256.9
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	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.59299728633E+03		Apriori delay (usec)		1.59299744938E+03		Resid mbdelay (usec)		-1.63058E-04	+/- 8.0E-05
Sband delay (usec)	1.59299722413E+03		Apriori clock (usec)		1.3082477E+01		Resid sbdelay (usec)		-2.25250E-04	+/- 6.3E-04
Phase delay (usec)	1.59299744494E+03		Apriori clockrate (us/s)		1.2500000E-07		Resid phdelay (usec)		-4.44532E-06	+/- 2.7E-07
Delay rate (us/s)	-1.95401872210E+00		Apriori rate (us/s)		-1.95401866004E+00		Resid rate (us/s)		-6.20597E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.43506996696E-05		Resid phase (deg)		-137.9	+/- 8.4

	RMS	Theor.	Amplitude	0.243 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	64.2	20.2	Search (2048X32)	0.225	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	89.8	35.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	59.1	11.9	Inc. seg. avg.	0.417	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	47.8	20.8	Inc. frq. avg.	0.340	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

t: az 270.0 el 38.6 pa 62.9 N: az 92.9 el 32.0 pa -49.1 u,v (fr/asec) 11895.194 -1736.420 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/tN..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/tN.W.55.20HFN2

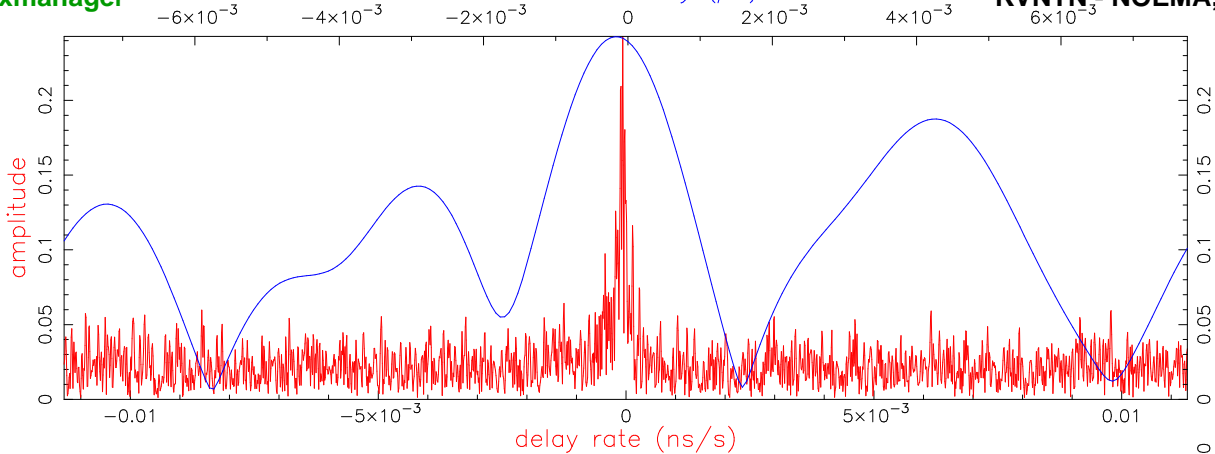
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, tN

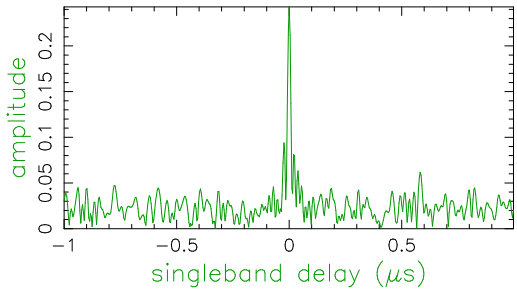
KVNTN- NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

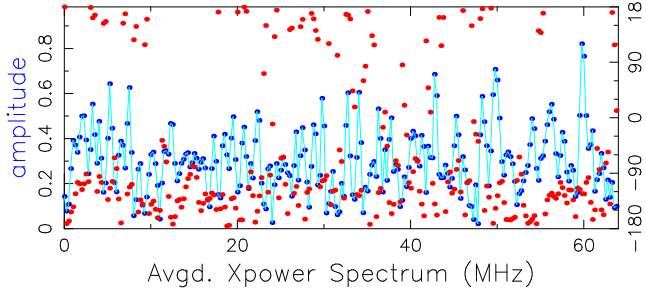


Fringe quality 9

SNR 13.6  
 Int time 419.771  
 Amp 0.243  
 Phase -137.9  
 PFD 2.2e-33  
 Delays (us)  
 SBD -0.000225  
 MBD -0.000163  
 Fringe rate (Hz)  
 -0.005346  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

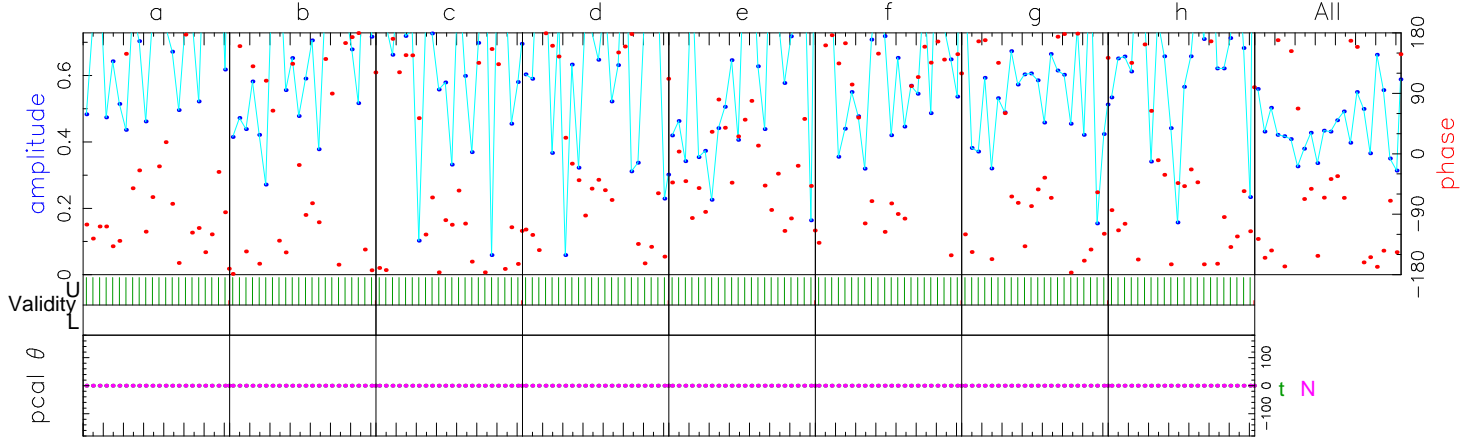


delay rate (ns/s)



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 140000.00  
 Stop 140659.84  
 FRT 140330.00  
 Corr/FF/build  
 2022:005:180117  
 2022:006:101659  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

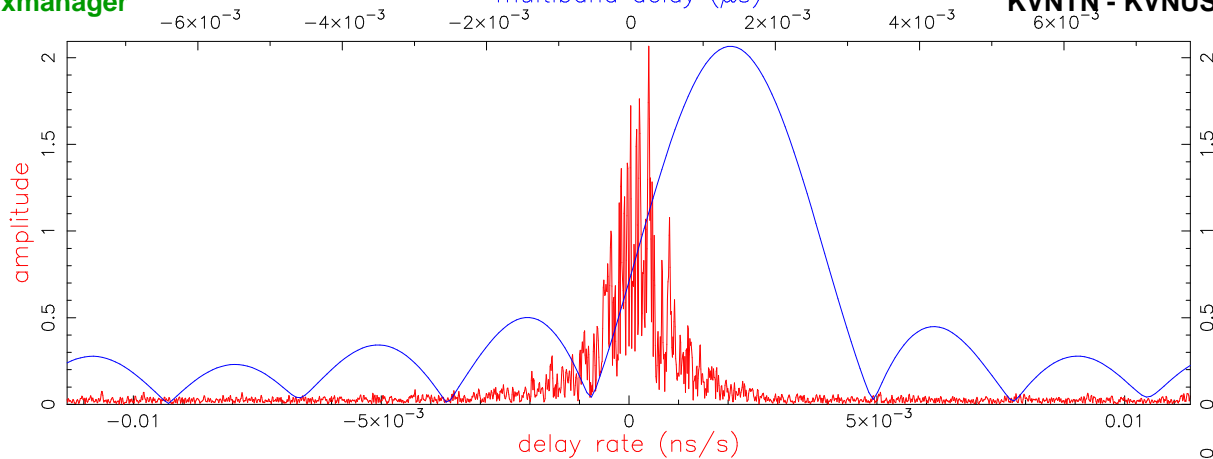
Group delay (usec)(sbd)	1.59299728633E+03	Apriori delay (usec)	1.59299744938E+03	Resid mbdelay (usec)	-1.63058E-04	+/-	8.0E-05
Sband delay (usec)	1.59299722413E+03	Apriori clock (usec)	1.3082477E+01	Resid sbdelay (usec)	-2.25250E-04	+/-	6.3E-04
Phase delay (usec)	1.59299744494E+03	Apriori clockrate (us/s)	1.2500000E-07	Resid phdelay (usec)	-4.44532E-06	+/-	2.7E-07
Delay rate (us/s)	-1.95401872210E+00	Apriori rate (us/s)	-1.95401866004E+00	Resid rate (us/s)	-6.20597E-08	+/-	1.1E-09
Total phase (deg)	-33.5	Apriori accel (us/s/s)	-1.43506996696E-05	Resid phase (deg)	-137.9	+/-	8.4

ph/seg (deg)	64.2	RMS	20.2	Theor.	20.2	Amplitude	0.243 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	89.8		35.3		35.3	Search (2048X32)	0.225	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	59.1		11.9		11.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.8		20.8		20.8	Inc. seg. avg.	0.417	Sample rate (MSamp/s):	128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.340	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	

t: az 270.0 el 38.6 pa 62.9 N: az 92.9 el 32.0 pa -49.1 u,v (fr/asec) 11895.194 -1736.420 simultaneous interpolator

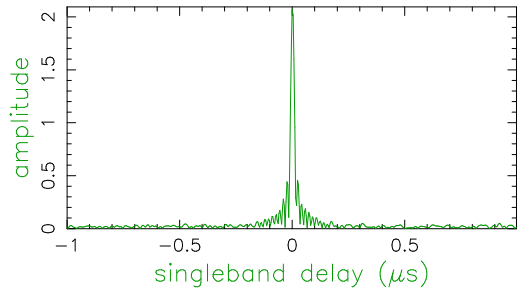
Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/tN..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/tN.W.55.20HFN2

multiband delay ( $\mu$ s)

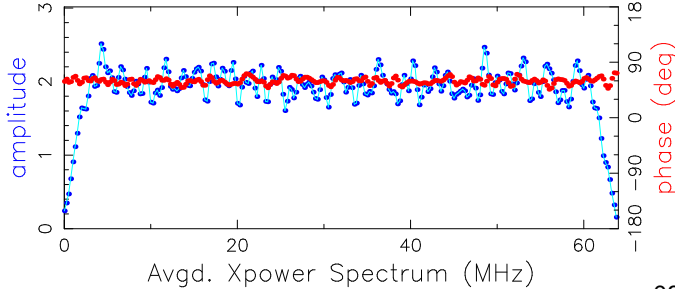


Fringe quality 5

SNR 117.3  
Int time 419.782  
Amp 2.094  
Phase 59.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.001433  
MBD 0.001382  
Fringe rate (Hz)  
0.034077  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

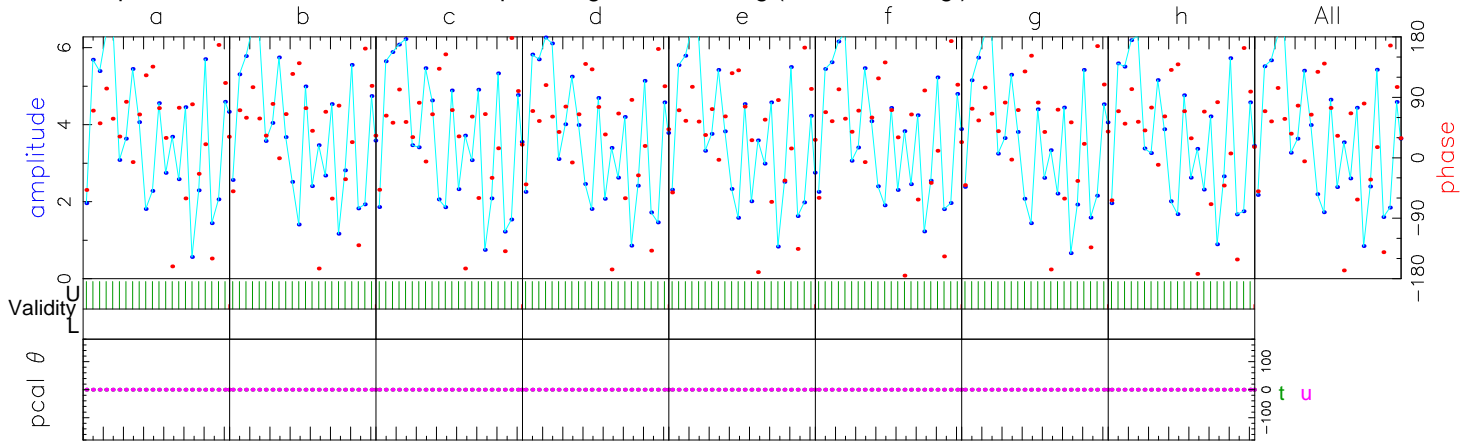


delay rate (ns/s)



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 140000.00  
Stop 140659.84  
FRT 140330.00  
Corr/FF/build  
2022:005:180117  
2022:006:101650  
2021:252:122852  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.66622019616E+02	Apriori delay (usec)		6.66620637989E+02	Resid mbdelay (usec)		1.38163E-03	+/-	9.3E-06	
Sband delay (usec)	6.66622071489E+02	Apriori clock (usec)		-1.4893646E+01	Resid sbdelay (usec)		1.43350E-03	+/-	7.3E-05	
Phase delay (usec)	6.66620639919E+02	Apriori clockrate (us/s)		-1.2190001E-06	Resid phdelay (usec)		1.93005E-06	+/-	3.2E-08	
Delay rate (us/s)	2.97875610840E-03	Apriori rate (us/s)		2.97836050297E-03	Resid rate (us/s)		3.95605E-07	+/-	1.3E-10	
Total phase (deg)	332.1		Apriori accel (us/s/s)		-4.87739754153E-06	Resid phase (deg)		59.9	+/-	1.0

ph/seg (deg)	RMS 71.7	Theor. 2.3	Amplitude	2.094 +/- 0.018	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	107.9	4.1	Search (2048X32)	2.001	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	2.9	1.4	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	2.8	2.4	Inc. seg. avg.	3.662	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	2.069	Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

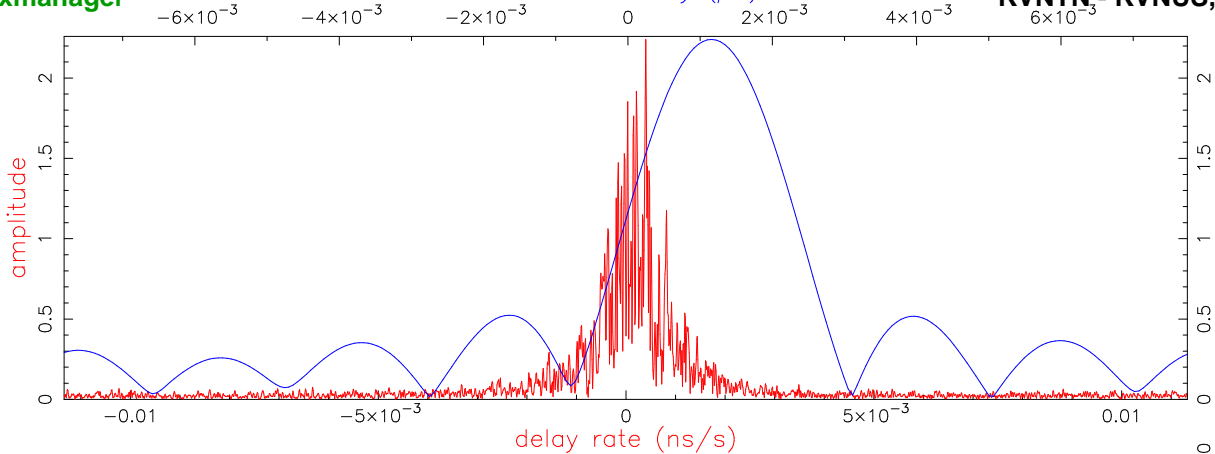
t: az 270.0 el 38.6 pa 62.9      u: az 269.8 el 36.3 pa 60.0      u,v (fr/asec) -23.736 -409.673      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/mg006b/v1/1234/No0005/tu..20HFN2      Output file: /Exps/mg006b/v1/1234/No0005/tu.W.10.20HFN2

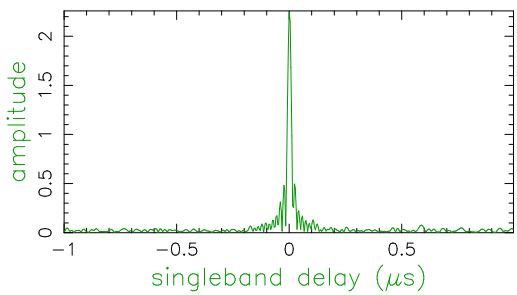


multiband delay ( $\mu$ s)

Fringe quality 5

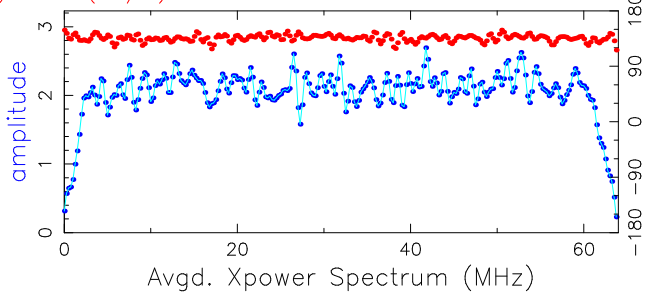


SNR 126.5  
Int time 419.782  
Amp 2.259  
Phase 135.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.001110  
MBD 0.001159  
Fringe rate (Hz) 0.034061  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512



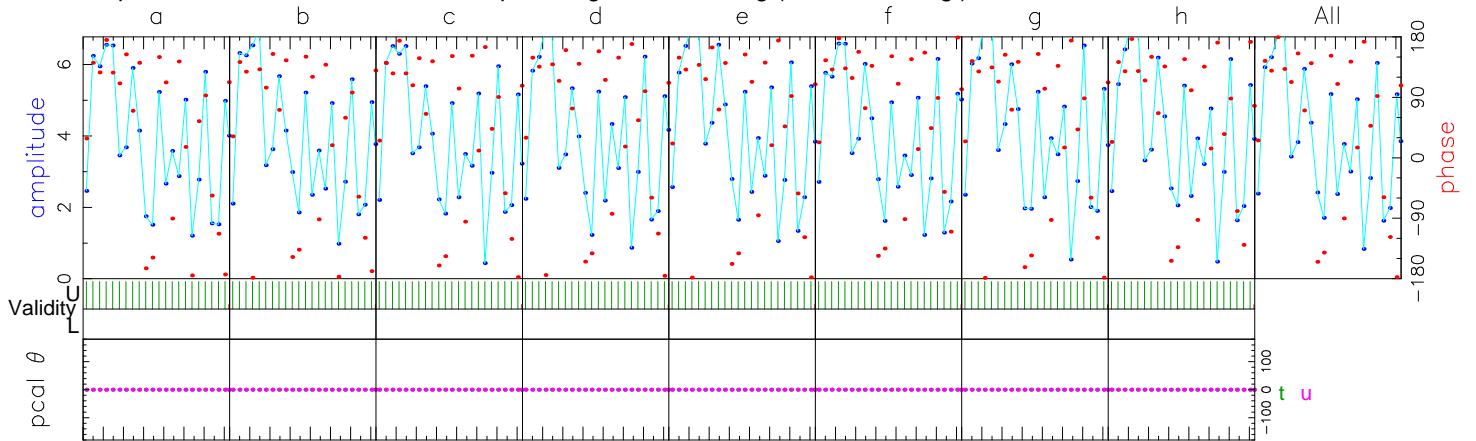
singleband delay ( $\mu$ s)

delay rate (ns/s)



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 140000.00  
Stop 140659.84  
FRT 140330.00  
Corr/FF/build  
2022:005:180117  
2022:006:101655  
2021:252:122852  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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
	131.8	138.1	131.9	140.6	138.0	134.6	135.4	132.1	Phase	135.3
	2.3	2.2	2.1	2.2	2.3	2.2	2.3	2.3	Ampl.	2.2
	257.3	257.3	257.3	257.4	257.3	257.2	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	
tu	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)	6.66621797054E+02		Apriori delay (usec)		6.66620637989E+02		Resid mbdelay (usec)		1.15907E-03	+/- 8.6E-06
Sband delay (usec)	6.66621747739E+02		Apriori clock (usec)		-1.4893646E+01		Resid sbdelay (usec)		1.10975E-03	+/- 6.8E-05
Phase delay (usec)	6.66620642352E+02		Apriori clockrate (us/s)		-1.2190001E-06		Resid phdelay (usec)		4.36309E-06	+/- 2.9E-08
Delay rate (us/s)	2.97875591567E-03		Apriori rate (us/s)		2.97836050297E-03		Resid rate (us/s)		3.95413E-07	+/- 1.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.87739754153E-06		Resid phase (deg)		135.3	+/- 0.9

	RMS	Theor.	Amplitude	2.259 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	72.6	2.2	Search (2048X32)	2.180	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	110.5	3.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	3.6	1.3	Inc. seg. avg.	3.983	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	2.9	2.2	Inc. frq. avg.	2.244	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

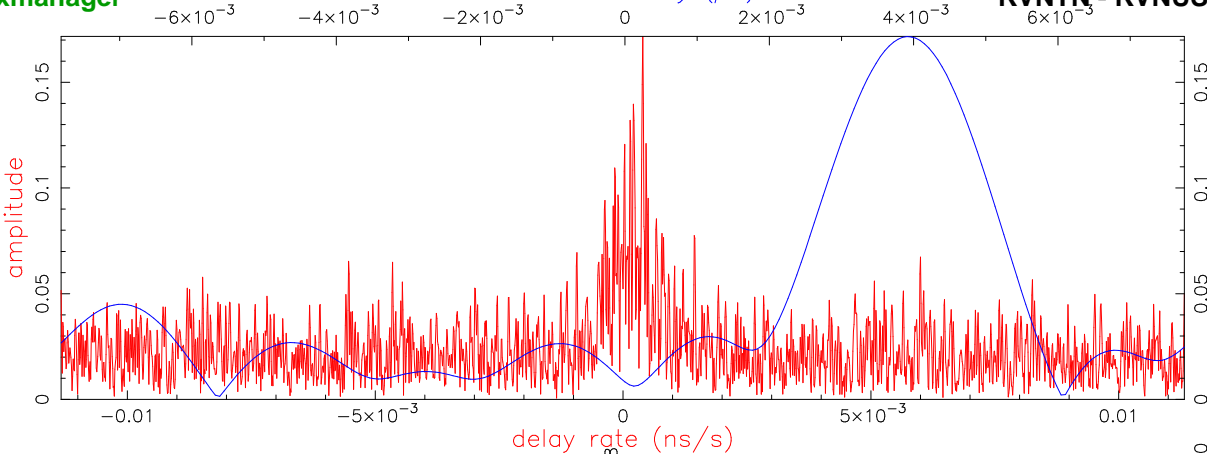
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, tu

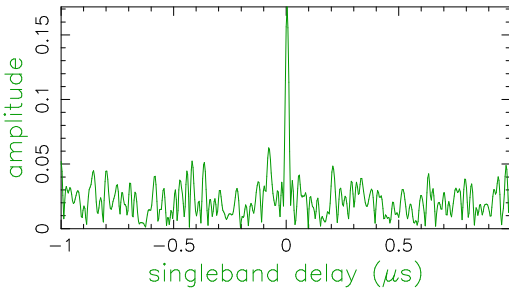
KVNTN - KVNUS, fgroup W, pol LR

multiband delay ( $\mu$ s)

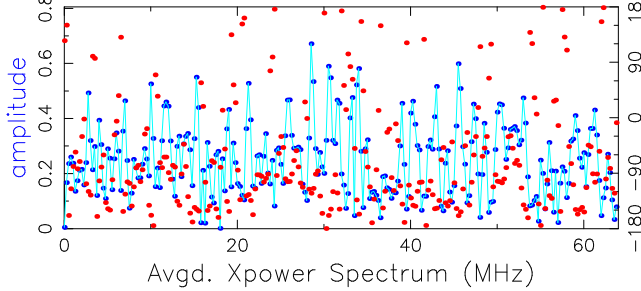


Fringe quality 9

SNR 9.6  
 Int time 419.782  
 Amp 0.172  
 Phase -112.8  
 PFD 2.8e-13  
 Delays (us)  
 SBD 0.003854  
 MBD 0.003921  
 Fringe rate (Hz) 0.034259  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

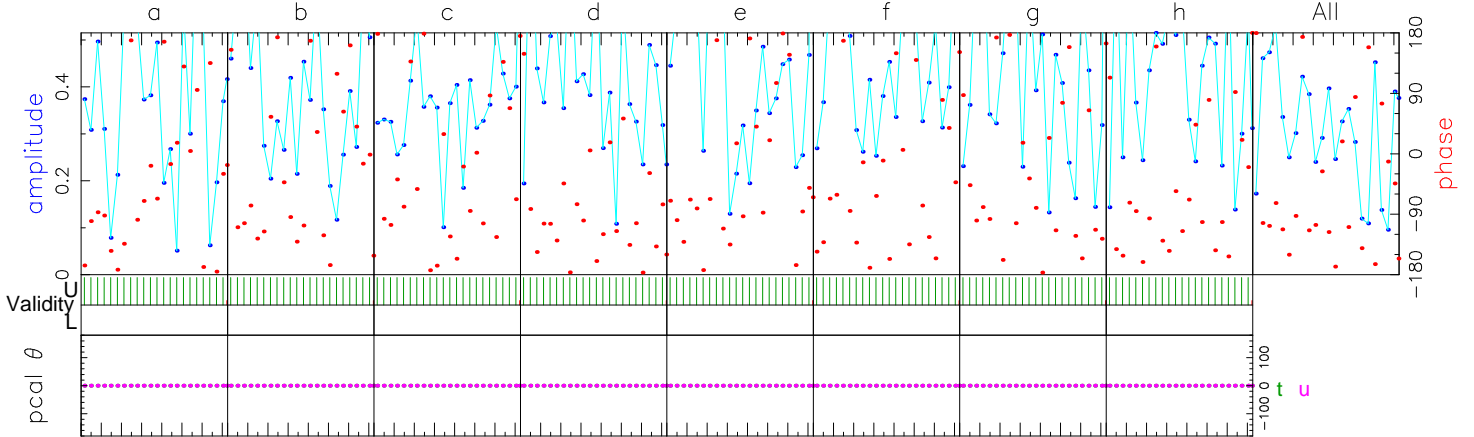


delay rate (ns/s)



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 140000.00  
 Stop 140659.84  
 FRT 140330.00  
 Corr/FF/build  
 2022:005:180117  
 2022:006:101659  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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
	-122.9	-106.4	-125.8	-108.1	-102.0	-107.5	-121.1	-116.0	Phase	-112.8
	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	355.4	251.1	137.9	257.8	257.8	87.1	258.7	259.0	Sbd box	258.0
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

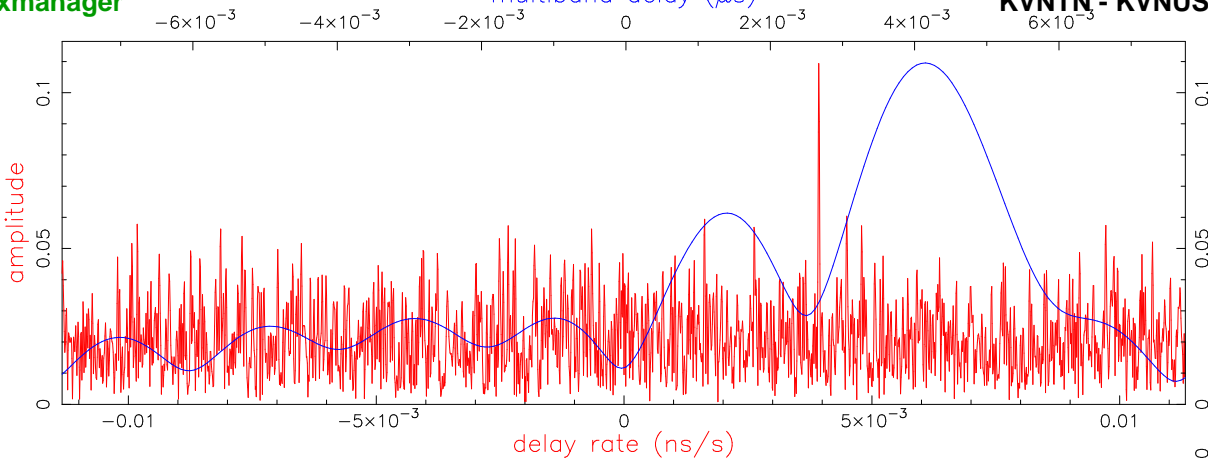
Group delay (usec)(sbd)	6.66624559304E+02	Apriori delay (usec)	6.66620637989E+02	Resid mbdelay (usec)	3.92132E-03	+/-	1.1E-04
Sband delay (usec)	6.66624491739E+02	Apriori clock (usec)	-1.4893646E+01	Resid sbdelay (usec)	3.85375E-03	+/-	9.0E-04
Phase delay (usec)	6.66620634352E+02	Apriori clockrate (us/s)	-1.2190001E-06	Resid phdelay (usec)	-3.63631E-06	+/-	3.8E-07
Delay rate (us/s)	2.97875821849E-03	Apriori rate (us/s)	2.97836050297E-03	Resid rate (us/s)	3.97716E-07	+/-	1.6E-09
Total phase (deg)	159.5	Apriori accel (us/s/s)	-4.87739754153E-06	Resid phase (deg)	-112.8	+/-	11.9

ph/seg (deg)	RMS 74.9	Theor. 28.6	Amplitude Search (2048X32)	0.172 +/- 0.018	0.170	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	107.4	49.9	Interp.	0.000	0.170	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	9.6	16.8	Inc. seg. avg.	0.274	0.170	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	24.0	29.4	Inc. frq. avg.	0.166	0.166	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

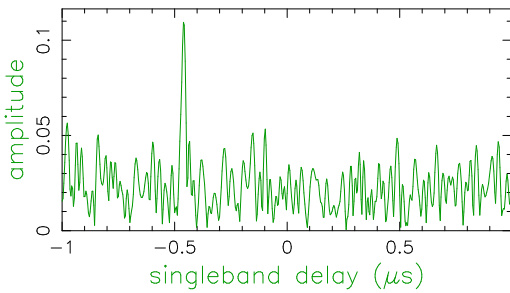
t: az 270.0 el 38.6 pa 62.9 u: az 269.8 el 36.3 pa 60.0 u,v (fr/asec) -23.736 -409.673 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/tu..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/tu.W.50.20HFN2

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

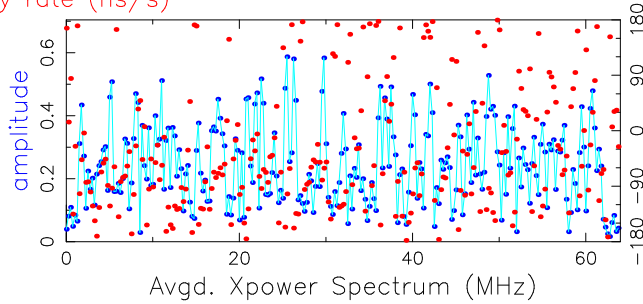
Fringe quality 0



SNR 6.2  
Int time 419.782  
Amp 0.116  
Phase -31.3  
PFD 1.4e-01  
Delays (us)  
SBD -0.459293  
MBD 0.004086  
Fringe rate (Hz)  
0.339466  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

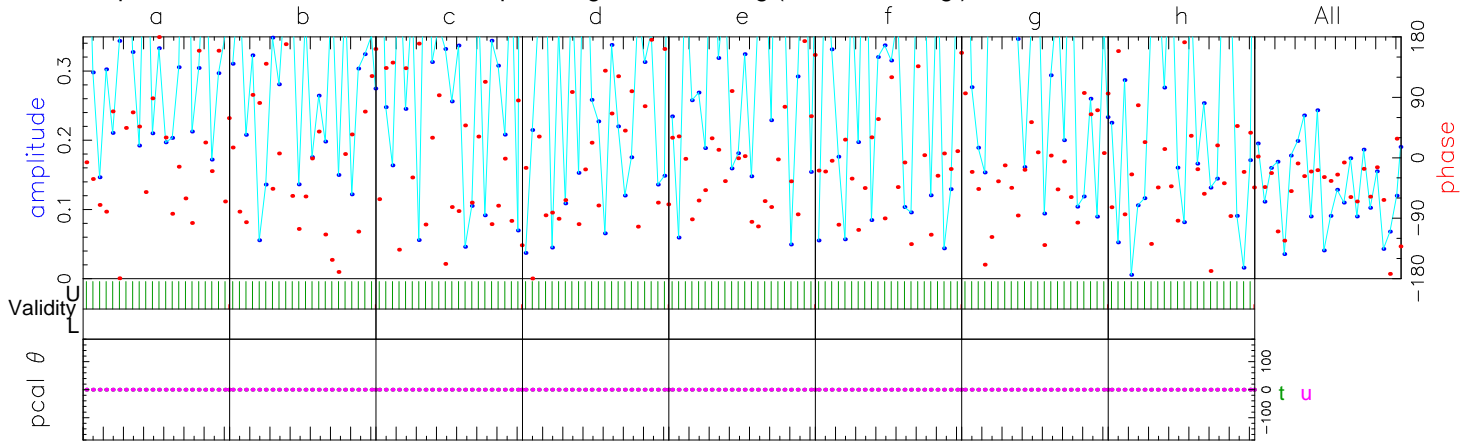


delay rate (ns/s)



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 140000.00  
Stop 140659.84  
FRT 140330.00  
Corr/FF/build  
2022:005:180117  
2022:006:101702  
2021:252:122852  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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
	-19.1	-45.6	-85.2	-18.4	-19.6	-21.5	-19.0	-42.7	Phase	-31.3
	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	Ampl.	0.1
	507.0	363.1	7.0	330.5	244.4	122.5	356.2	218.4	Sbd box	139.4
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	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)	6.66155974039E+02	Apriori delay (usec)	6.66620637989E+02	Resid mbdelay (usec)	4.08605E-03	+/-	1.7E-04
Sband delay (usec)	6.66161345489E+02	Apriori clock (usec)	-1.4893646E+01	Resid sbdelay (usec)	-4.59293E-01	+/-	1.4E-03
Phase delay (usec)	6.66620636978E+02	Apriori clockrate (us/s)	-1.2190001E-06	Resid phdelay (usec)	-1.01093E-06	+/-	6.0E-07
Delay rate (us/s)	2.98230136299E-03	Apriori rate (us/s)	2.97836050297E-03	Resid rate (us/s)	3.94086E-06	+/-	2.5E-09
Total phase (deg)	240.9	Apriori accel (us/s/s)	-4.87739754153E-06	Resid phase (deg)	-31.3	+/-	18.5

ph/seg (deg)	46.0	Theor.	44.3	Amplitude	0.116 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	57.5	Search (2048X32)	0.108	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	25.6	Inc. seg. avg.	0.108	Inc. frq. avg.	0.112	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	42.8	Inc. frq. avg.	0.112			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

t: az 270.0 el 38.6 pa 62.9      u: az 269.8 el 36.3 pa 60.0      u,v (fr/asec) -23.736 -409.673      simultaneous interpolator  
Control file: cf\_1234\_gmva    Input file: /Exps/mg006b/v1/1234/No0005/tu..20HFN2    Output file: /Exps/mg006b/v1/1234/No0005/tu.W.70.20HFN2



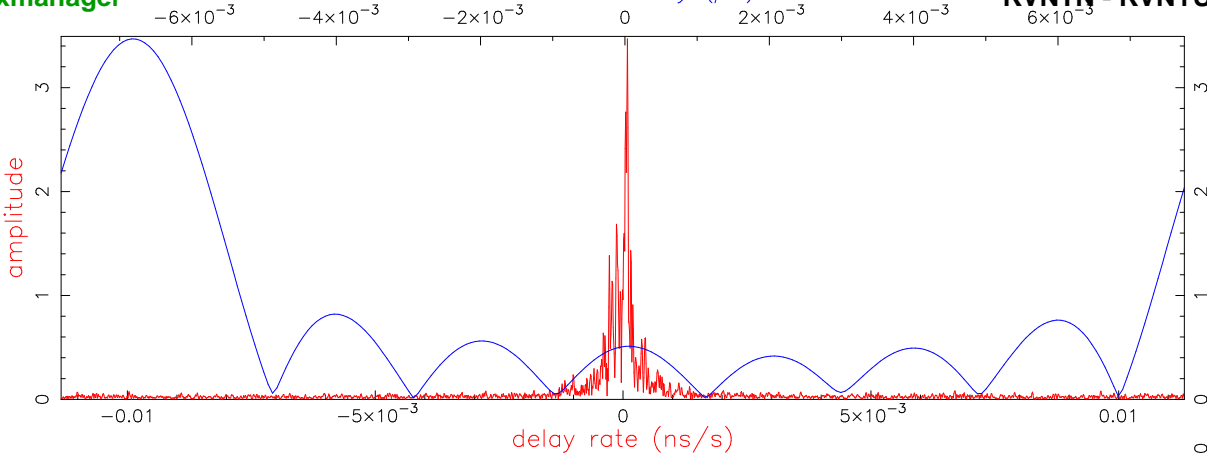
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, ty

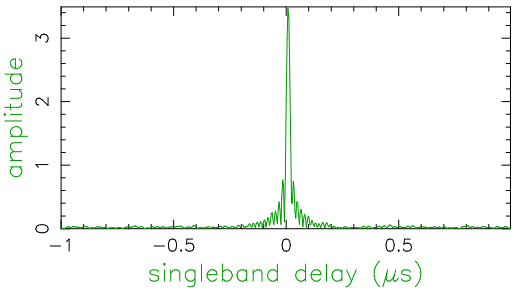
KVNTN - KVNYs, fgroup W, pol LL

multiband delay ( $\mu$ s)

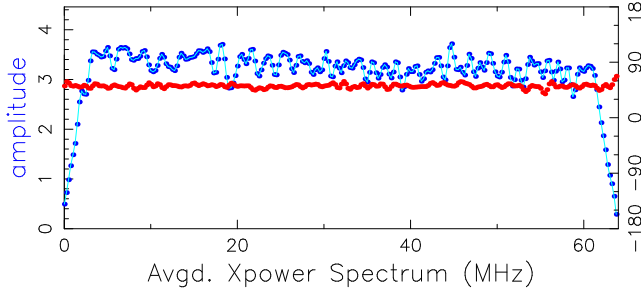


Fringe quality 5

SNR 195.7  
Int time 419.782  
Amp 3.493  
Phase -128.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.008847  
MBD -0.006815  
Fringe rate (Hz)  
0.007900  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

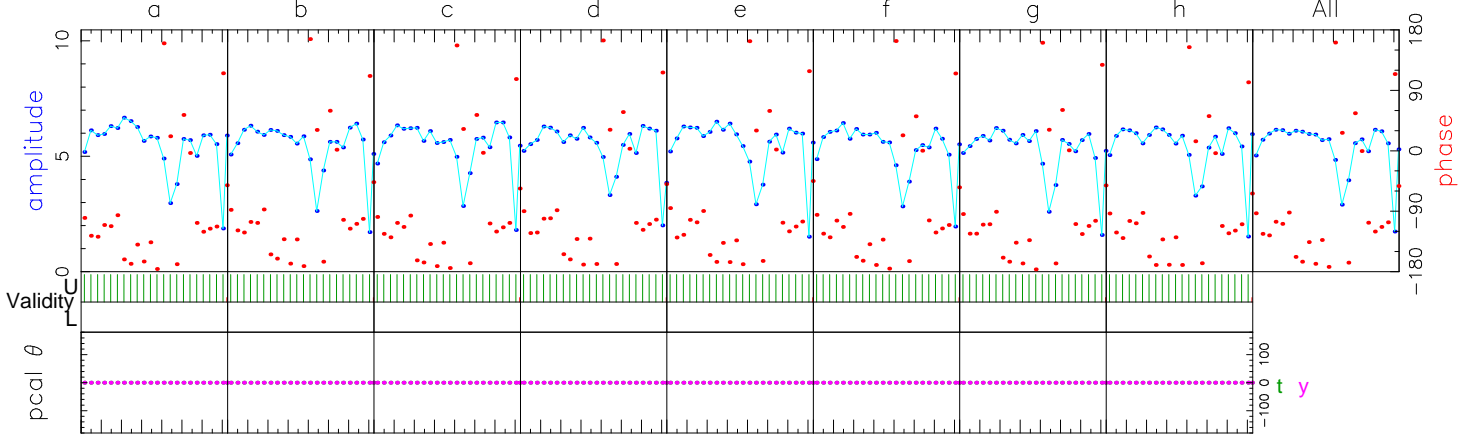


delay rate (ns/s)



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 140000.00  
Stop 140659.84  
FRT 140330.00  
Corr/FF/build  
2022:005:180117  
2022:006:101651  
2021:252:122852  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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
	-131.5	-125.2	-130.7	-124.8	-127.2	-129.4	-129.9	-128.2	Phase	-128.4
	3.5	3.5	3.5	3.4	3.5	3.5	3.4	3.5	Ampl.	3.5
	259.3	259.3	259.2	259.4	259.2	259.3	259.3	259.1	Sbd box	259.3
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	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	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	
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	

Group delay (usec)(sbd)	1.38007293870E+02	Apriori delay (usec)	1.37998484074E+02	Resid mbdelay (usec)	-6.81520E-03	+/-	5.5E-06
Sband delay (usec)	1.38007331074E+02	Apriori clock (usec)	-9.7187805E-01	Resid sbdelay (usec)	8.84700E-03	+/-	4.4E-05
Phase delay (usec)	1.37998479935E+02	Apriori clockrate (us/s)	3.199997E-08	Resid phdelay (usec)	-4.13907E-06	+/-	1.9E-08
Delay rate (us/s)	-4.75896456445E-02	Apriori rate (us/s)	-4.75897373524E-02	Resid rate (us/s)	9.17079E-08	+/-	7.8E-11
Total phase (deg)	22.2	Apriori accel (us/s/s)	-3.08588474670E-06	Resid phase (deg)	-128.4	+/-	0.6

ph/seg (deg)	68.2	RMS	1.4	Theor.	1.4	Amplitude	3.493 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	62.5		2.5		2.5	Search (2048X32)	3.394	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	2.7		0.8		0.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	1.7		1.4		1.4	Inc. seg. avg.	5.375	Sample rate (MSamp/s):	128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	3.472	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	

t: az 270.0 el 38.6 pa 62.9 y: az 266.9 el 38.1 pa 57.5 u,v (fr/asec) 287.088 -595.095 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/ty..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/ty.W.12.20HFN2

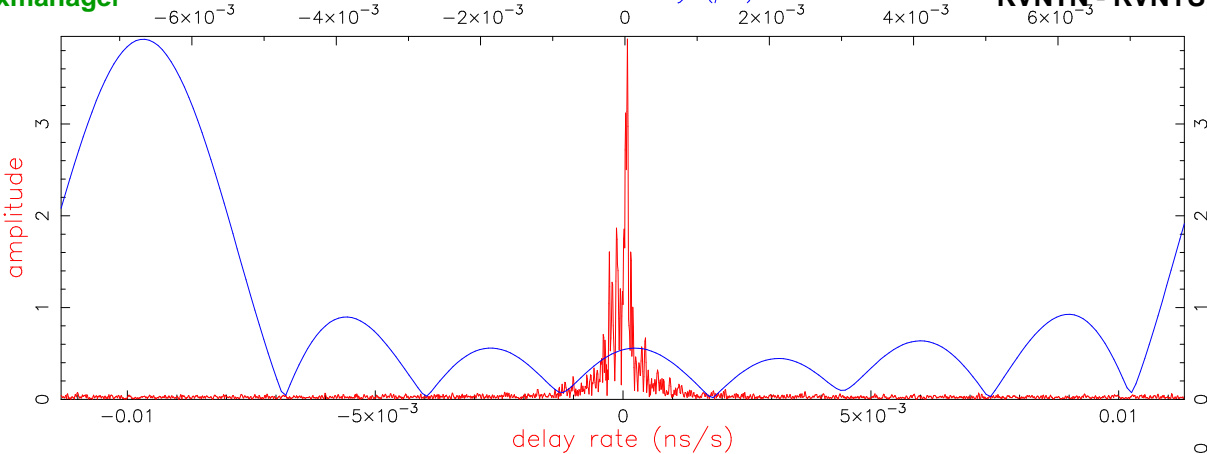
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, ty

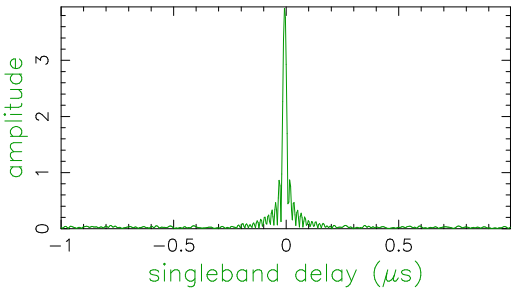
KVNTN - KVNYs, fgroup W, pol RR

multiband delay ( $\mu$ s)

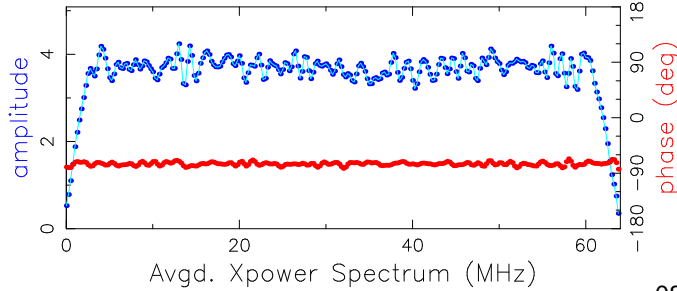


Fringe quality 5

SNR 221.6  
 Int time 419.782  
 Amp 3.954  
 Phase -75.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.006719  
 MBD -0.006672  
 Fringe rate (Hz)  
 0.007904  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

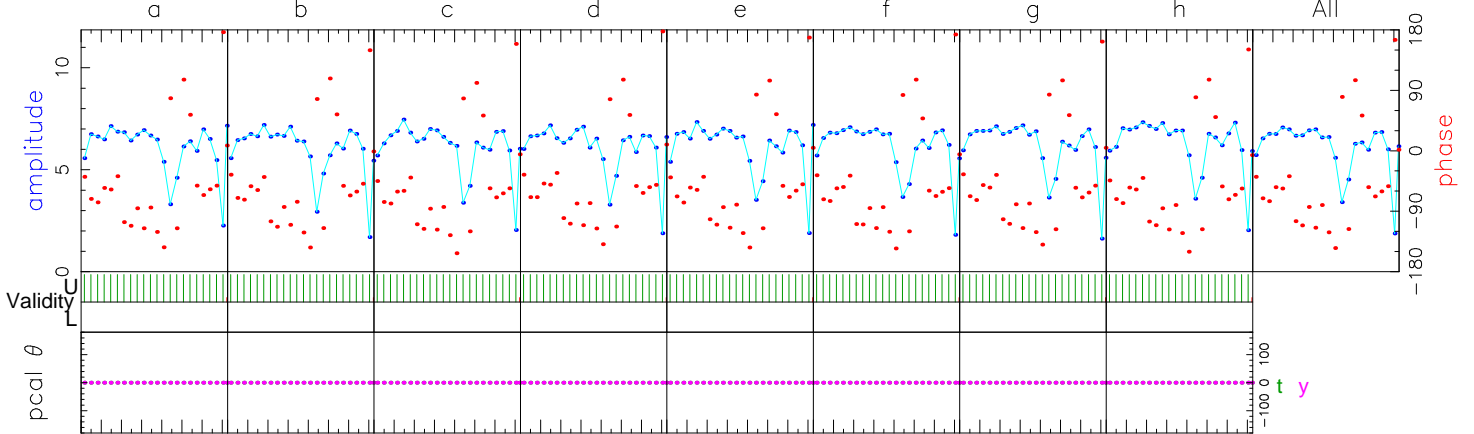


delay rate (ns/s)



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 140000.00  
 Stop 140659.84  
 FRT 140330.00  
 Corr/FF/build  
 2022:005:180117  
 2022:006:101656  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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
	-76.3	-74.6	-79.5	-70.5	-75.3	-76.4	-74.0	-77.7	Phase	-75.5
	3.9	3.9	3.9	3.9	3.9	4.0	4.0	4.0	Ampl.	3.9
	255.3	255.3	255.2	255.4	255.2	255.4	255.2	255.2	Sbd box	255.3
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	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	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	
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)	1.37991811620E+02		Apriori delay (usec)		1.37998484074E+02		Resid mbdelay (usec)		-6.67245E-03	+/- 4.9E-06
Sband delay (usec)	1.37991764824E+02		Apriori clock (usec)		-9.7187805E-01		Resid sbdelay (usec)		-6.71925E-03	+/- 3.9E-05
Phase delay (usec)	1.37998481638E+02		Apriori clockrate (us/s)		3.199997E-08		Resid phdelay (usec)		-2.43581E-06	+/- 1.7E-08
Delay rate (us/s)	-4.75896455956E-02		Apriori rate (us/s)		-4.75897373524E-02		Resid rate (us/s)		9.17568E-08	+/- 6.9E-11
Total phase (deg)	75.0		Apriori accel (us/s/s)		-3.08588474670E-06		Resid phase (deg)		-75.5	+/- 0.5

RMS Theor. Amplitude 3.954 +/- 0.018  
 ph/seg (deg) 68.9 1.2 Search (2048X32) 3.803  
 amp/seg (%) 62.6 2.2 Interp. 0.000  
 ph/frq (deg) 2.9 0.7 Inc. seg. avg. 6.090  
 amp/frq (%) 1.4 1.3 Inc. frq. avg. 3.928

Group delay (usec)(sbd) 1.37991811620E+02  
 Sband delay (usec) 1.37991764824E+02  
 Phase delay (usec) 1.37998481638E+02  
 Delay rate (us/s) -4.75896455956E-02  
 Total phase (deg) 75.0

Apriori delay (usec) 1.37998484074E+02  
 Apriori clock (usec) -9.7187805E-01  
 Apriori clockrate (us/s) 3.199997E-08  
 Apriori rate (us/s) -4.75897373524E-02  
 Apriori accel (us/s/s) -3.08588474670E-06

Resid mbdelay (usec) -6.67245E-03  
 Resid sbdelay (usec) -6.71925E-03  
 Resid phdelay (usec) -2.43581E-06  
 Resid rate (us/s) 9.17568E-08  
 Resid phase (deg) -75.5

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

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

t: az 270.0 el 38.6 pa 62.9 y: az 266.9 el 38.1 pa 57.5 u,v (fr/asec) 287.088 -595.095 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/ty..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/ty.W.40.20HFN2

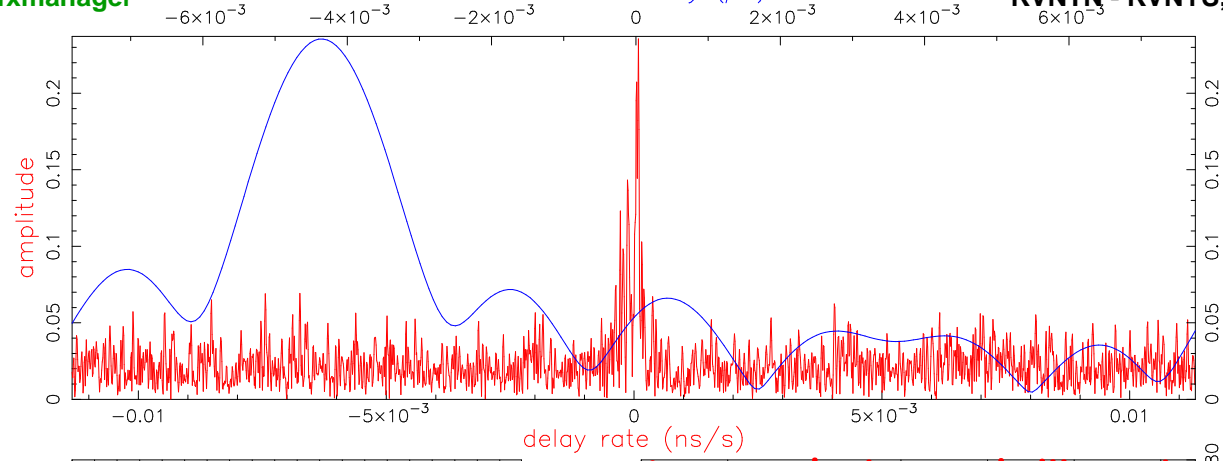
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HFN2, No0005, ty

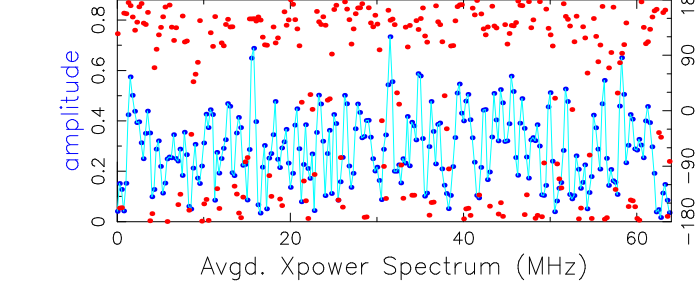
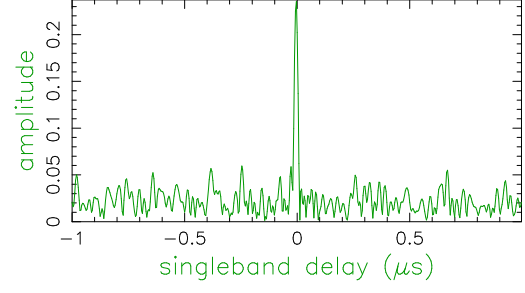
KVNTN - KVNYS, fgroup W, pol LR

multiband delay ( $\mu$ s)



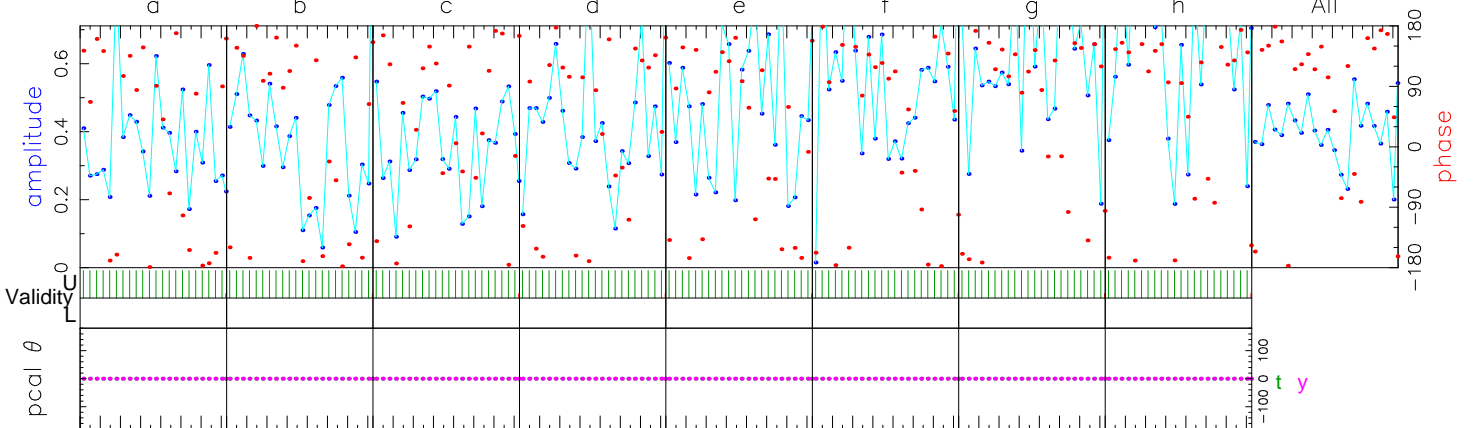
Fringe quality 9

SNR 13.3  
Int time 419.782  
Amp 0.237  
Phase 151.0  
PFD 1.5e-31  
Delays (us)  
SBD -0.004945  
MBD -0.004370  
Fringe rate (Hz) 0.007942  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 140000.00  
Stop 140659.84  
FRT 140330.00  
Corr/FF/build 2022:005:180117  
2022:006:101700  
2021:252:122852  
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

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

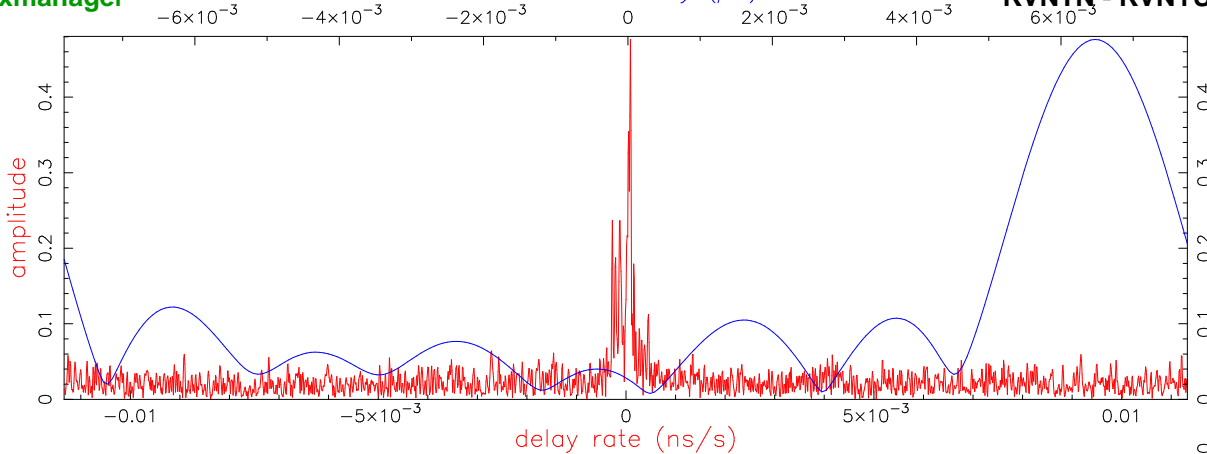


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	0:0	0:0	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)		1.37994113745E+02			1.37998484074E+02				Resid mbdelay (usec)	-4.37033E-03 +/- 8.2E-05
Sband delay (usec)		1.37993539074E+02			-9.7187805E-01				Resid sbdelay (usec)	-4.94500E-03 +/- 6.5E-04
Phase delay (usec)		1.37998488945E+02			3.199997E-08				Resid phdelay (usec)	4.87088E-06 +/- 2.8E-07
Delay rate (us/s)		-4.75896451570E-02			-4.75897373524E-02				Resid rate (us/s)	9.21954E-08 +/- 1.1E-09
Total phase (deg)			301.6		-3.08588474670E-06				Resid phase (deg)	151.0 +/- 8.6
	RMS	Theor.	Amplitude	0.237 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	65.8	20.7	Search (2048X32)	0.228					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	76.8	36.1	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	9.9	12.2	Inc. seg. avg.	0.374					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	36.1	21.3	Inc. frq. avg.	0.232					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

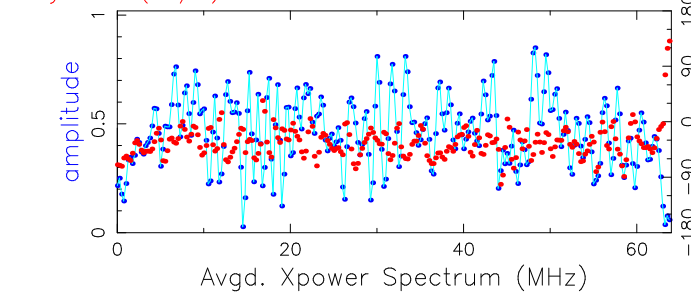
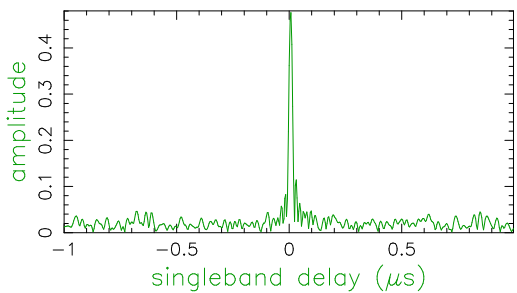
t: az 270.0 el 38.6 pa 62.9 y: az 266.9 el 38.1 pa 57.5 u,v (fr/asec) 287.088 -595.095 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0005/ty..20HFN2 Output file: /Exps/mg006b/v1/1234/No0005/ty.W.57.20HFN2

multiband delay ( $\mu$ s)

Fringe quality 7

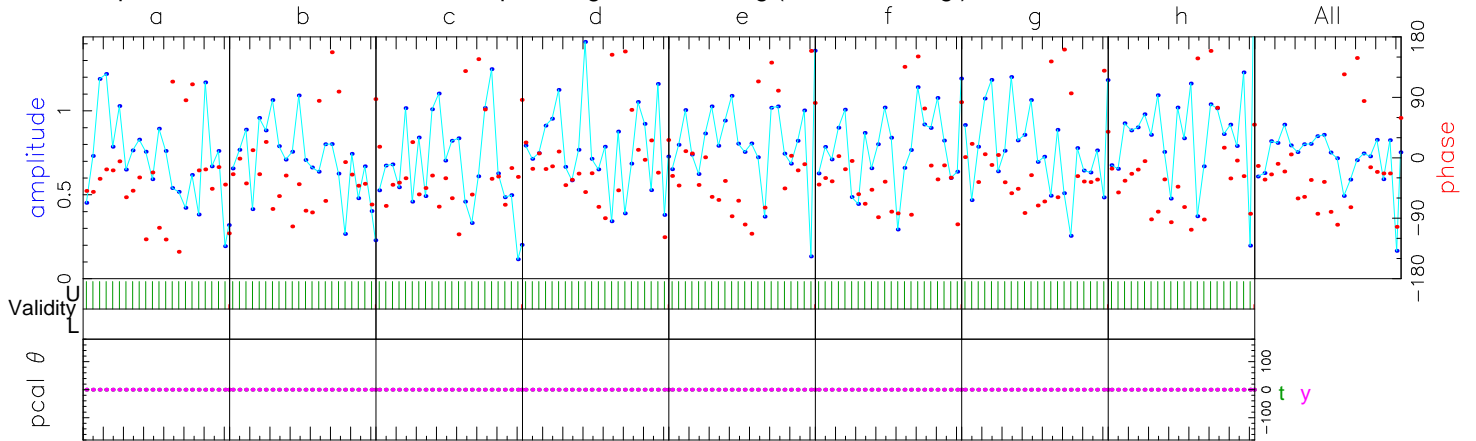


SNR 26.9  
Int time 419.782  
Amp 0.480  
Phase -33.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.006652  
MBD 0.006473  
Fringe rate (Hz) 0.007874  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 140000.00  
Stop 140659.84  
FRT 140330.00  
Corr/FF/build  
2022:005:180117  
2022:006:101704  
2021:252:122852  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.7	-37.9	-38.2	-18.2	-33.6	-37.5	-30.8	-40.4	Phase	-33.9
	0.5	0.5	0.4	0.6	0.4	0.5	0.5	0.5	Ampl.	0.5
	258.9	258.6	258.4	259.0	258.3	258.6	258.6	258.8	Sbd box	258.7
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	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	1.38004957463E+02	Apriori delay (usec)	1.37998484074E+02	Resid mbdelay (usec)	6.47339E-03	+/-	4.0E-05
Sband delay (usec)	1.38005136324E+02	Apriori clock (usec)	-9.7187805E-01	Resid sbdelay (usec)	6.65225E-03	+/-	3.2E-04
Phase delay (usec)	1.37998482979E+02	Apriori clockrate (us/s)	3.199997E-08	Resid phdelay (usec)	-1.09438E-06	+/-	1.4E-07
Delay rate (us/s)	-4.75896459456E-02	Apriori rate (us/s)	-4.75897373524E-02	Resid rate (us/s)	9.14068E-08	+/-	5.7E-10
Total phase (deg)	116.6	Apriori accel (us/s/s)	-3.08588474670E-06	Resid phase (deg)	-33.9	+/-	4.3

ph/seg (deg)	RMS 64.5	Theor. 10.2	Amplitude 0.480 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	59.3	17.8	Search (2048X32) 0.465	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	7.8	6.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	10.3	10.5	Inc. seg. avg. 0.707	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.478	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
						ion window (TEC) 0.00 0.00

t: az 270.0 el 38.6 pa 62.9      y: az 266.9 el 38.1 pa 57.5      u,v (fr/asec) 287.088 -595.095      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/mg006b/v1/1234/No0005/ty..20HFN2      Output file: /Exps/mg006b/v1/1234/No0005/ty.W.78.20HFN2