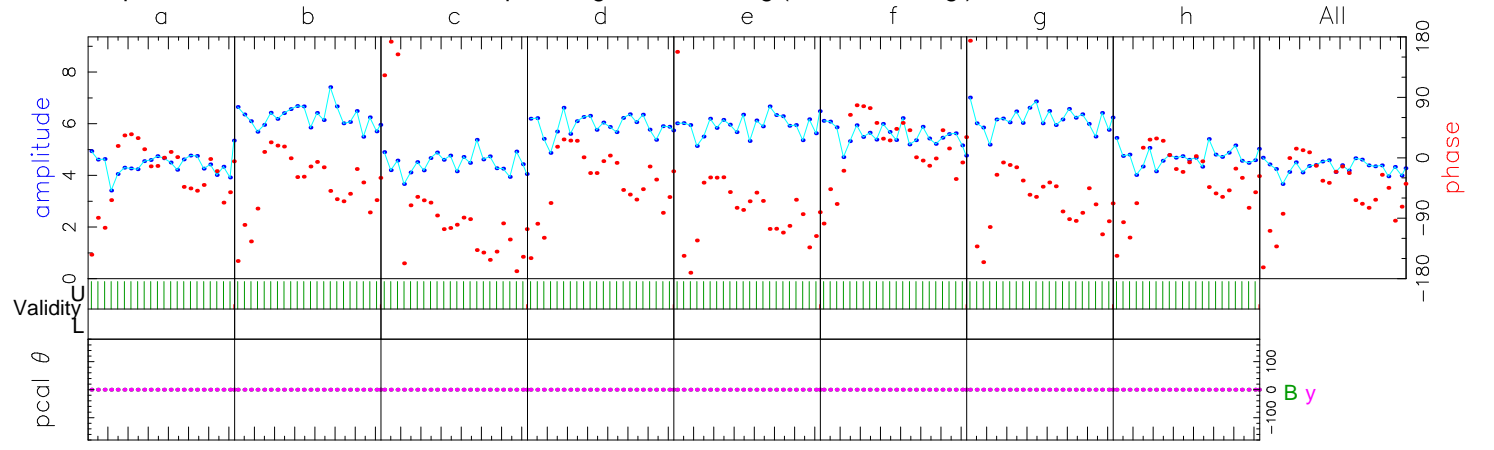


Fringe quality 3
SNR 174.9
Int time 419.816
Amp 3.122
Phase -46.5
PFD 0.0e+00
Delays (us)
SBD -0.008501
MBD 0.005809
Fringe rate (Hz) 0.009103
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051152
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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
	-24.1	-37.3	-120.6	-31.8	-86.3	17.0	-67.5	-31.2	Phase	-46.5
	3.2	4.6	3.2	4.2	4.3	3.9	4.5	3.4	Ampl.	3.9
	253.1	254.9	255.6	255.6	255.8	255.5	255.3	253.9	Sbd box	254.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.23643730873E+03		Apriori delay (usec)		4.23644712432E+03		Resid mbdelay (usec)		5.80941E-03	+/- 6.2E-06
Sband delay (usec)	4.23643862307E+03		Apriori clock (usec)		-2.2770000E+01		Resid sbdelay (usec)		-8.50125E-03	+/- 4.9E-05
Phase delay (usec)	4.23644712282E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.49795E-06	+/- 2.1E-08
Delay rate (us/s)	1.41629257524E+00		Apriori rate (us/s)		1.41629246956E+00		Resid rate (us/s)		1.05677E-07	+/- 8.7E-11
Total phase (deg)	57.6		Apriori accel (us/s/s)		-1.02983564898E-05		Resid phase (deg)		-46.5	+/- 0.7

ph/seg (deg) 46.1 1.6 Search (2048X32) 2.971 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 39.2 2.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 45.8 0.9 Inc. seg. avg. 4.321 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 30.5 1.6 Inc. frq. avg. 3.907 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 82.7 el 54.3 pa -58.5 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) -10993.824 454.453 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/By..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/By.W.24.1W6LVT

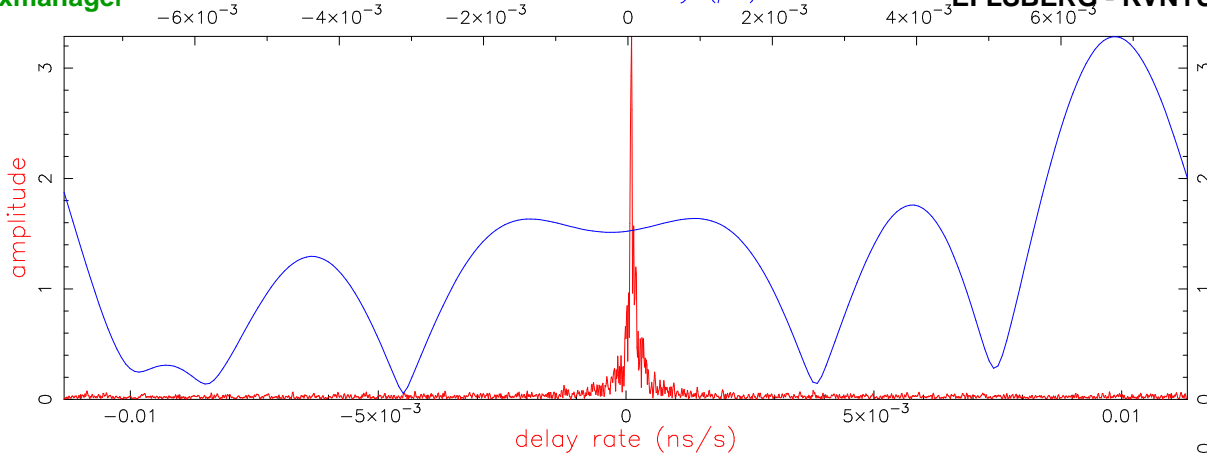
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, By

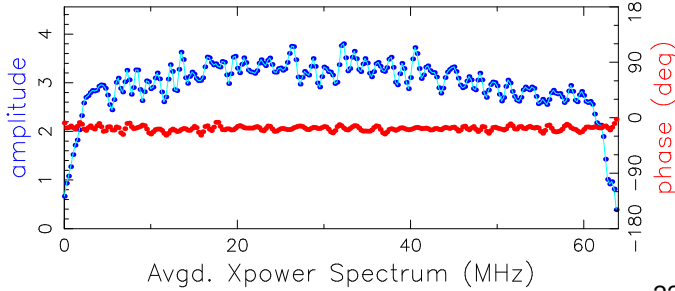
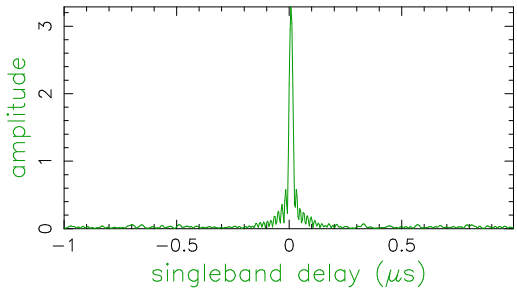
EFLSBERG - KVNYS, fgroup W, pol LL

multiband delay (μ s)



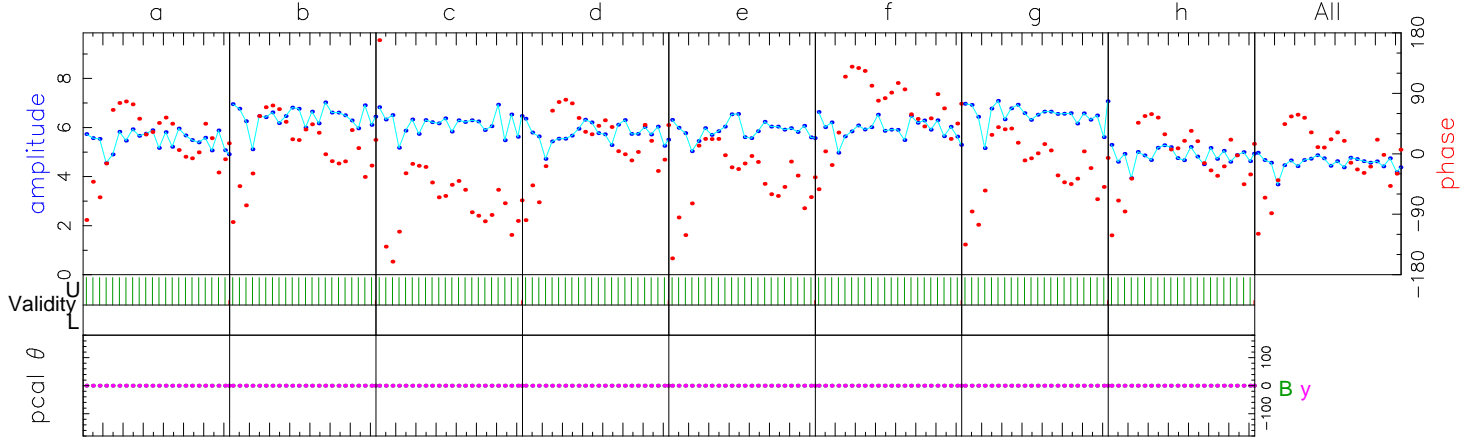
Fringe quality 3

SNR 184.2
 Int time 419.816
 Amp 3.287
 Phase -1.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.008143
 MBD 0.006754
 Fringe rate (Hz)
 0.009108
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051149
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		4.23645387832E+03				4.23644712432E+03			6.75400E-03	+/- 5.9E-06
Sband delay (usec)		4.23645526682E+03				-2.2770000E+01			8.14250E-03	+/- 4.7E-05
Phase delay (usec)		4.23644712427E+03				0.0000000E+00			-5.13109E-08	+/- 2.0E-08
Delay rate (us/s)		1.41629257530E+00				1.41629246956E+00			1.05735E-07	+/- 8.3E-11
Total phase (deg)			102.5			-1.02983564898E-05			-1.6	+/- 0.6
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)										
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) 46.2 1.5 Search (2048X32) 3.125 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 39.8 2.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.1 0.9 Inc. seg. avg. 4.569 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.5 1.5 Inc. frq. avg. 4.224 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 82.7 el 54.3 pa -58.5 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) -10993.824 454.453 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/By..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/By.W.3.1W6LVT

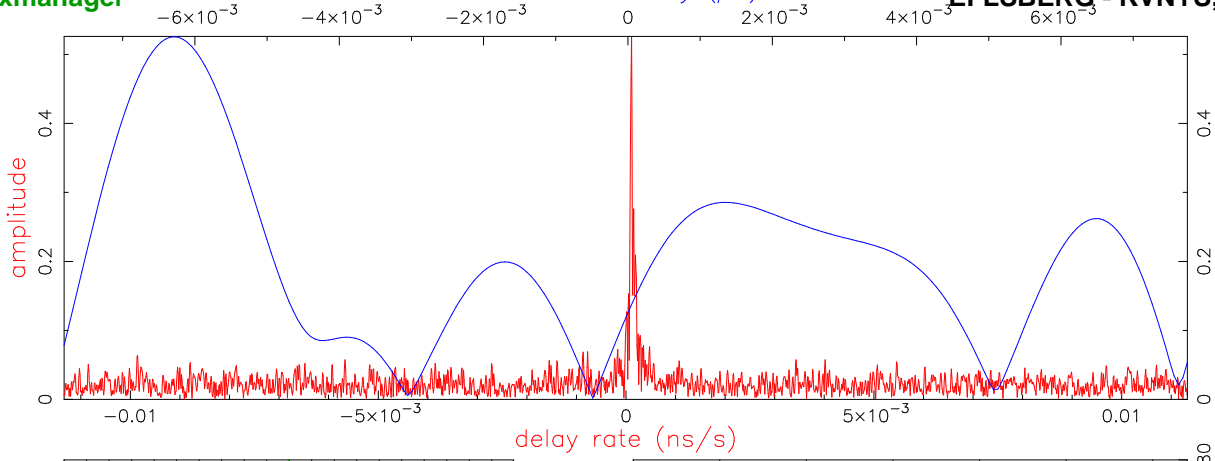
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, By

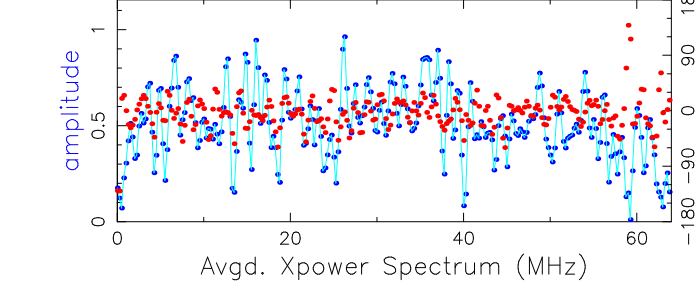
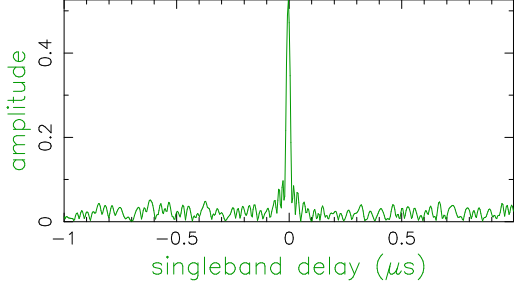
EFLSBERG - KVNYS, fgroup W, pol LR

multiband delay (μ s)



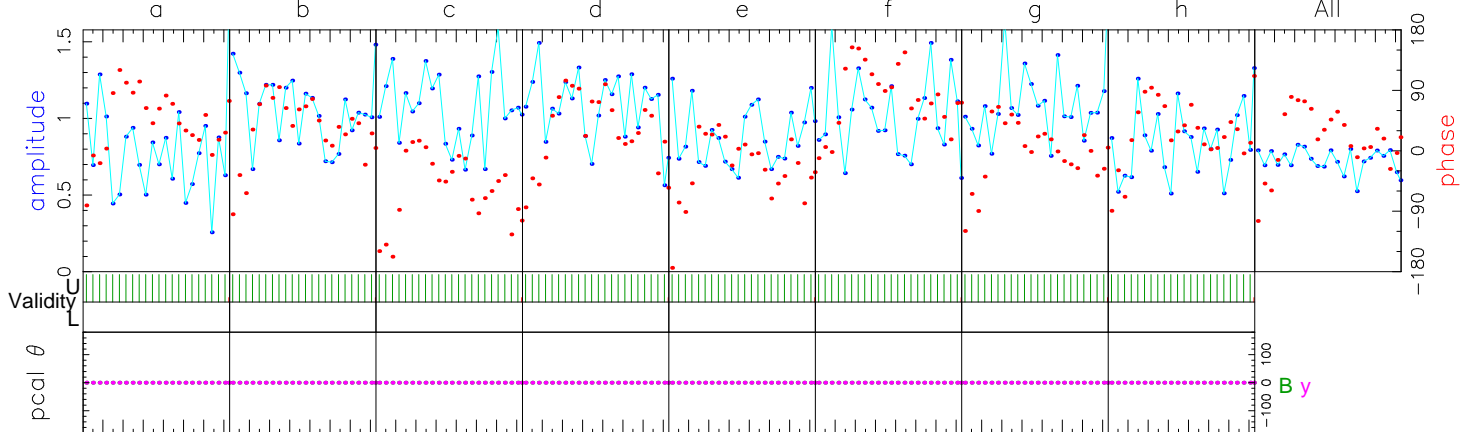
Fringe quality 4

SNR 29.5
 Int time 419.816
 Amp 0.526
 Phase 20.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.004304
 MBD -0.006298
 Fringe rate (Hz)
 0.009099
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051156
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		4.23644082604E+03			4.23644712432E+03				Resid mbdelay (usec)	-6.29828E-03	+/- 3.7E-05
Sband delay (usec)		4.23644282032E+03			-2.2770000E+01				Resid sbdelay (usec)	-4.30400E-03	+/- 2.9E-04
Phase delay (usec)		4.23644712497E+03			0.0000000E+00				Resid phdelay (usec)	6.43585E-07	+/- 1.3E-07
Delay rate (us/s)		1.41629257520E+00			1.41629246956E+00				Resid rate (us/s)	1.05636E-07	+/- 5.2E-10
Total phase (deg)			124.0		-1.02983564898E-05				Resid phase (deg)	20.0	+/- 3.9

ph/seg (deg) 46.1 9.3 Search (2048X32) 0.501 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.2 16.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.8 5.5 Inc. seg. avg. 0.722 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.3 9.6 Inc. frq. avg. 0.663 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 82.7 el 54.3 pa -58.5 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) -10993.824 454.453 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/By..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/By.W.44.1W6LVT

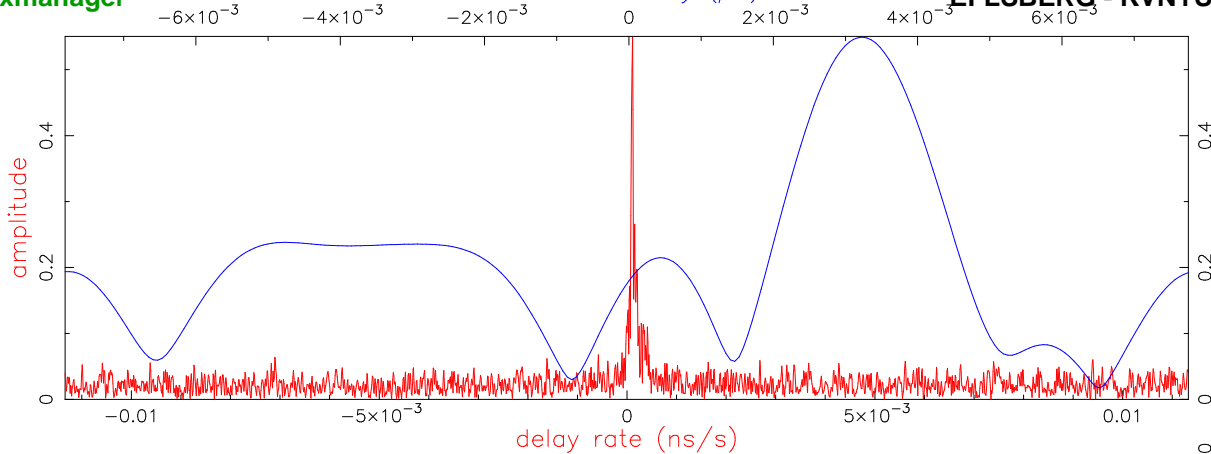
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, By

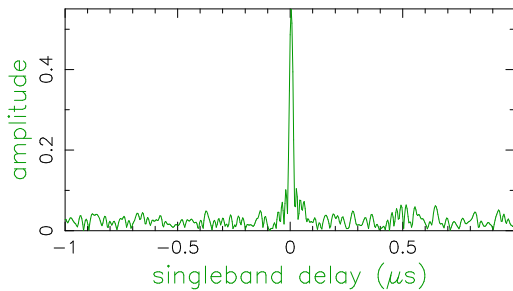
EFLSBERG - KVNYS, fgroup W, pol RL

multiband delay (μ s)

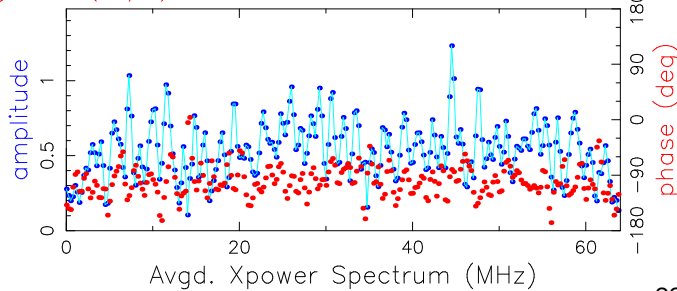


Fringe quality 4

SNR 30.8
 Int time 419.816
 Amp 0.551
 Phase -85.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.004503
 MBD 0.003246
 Fringe rate (Hz)
 0.009114
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

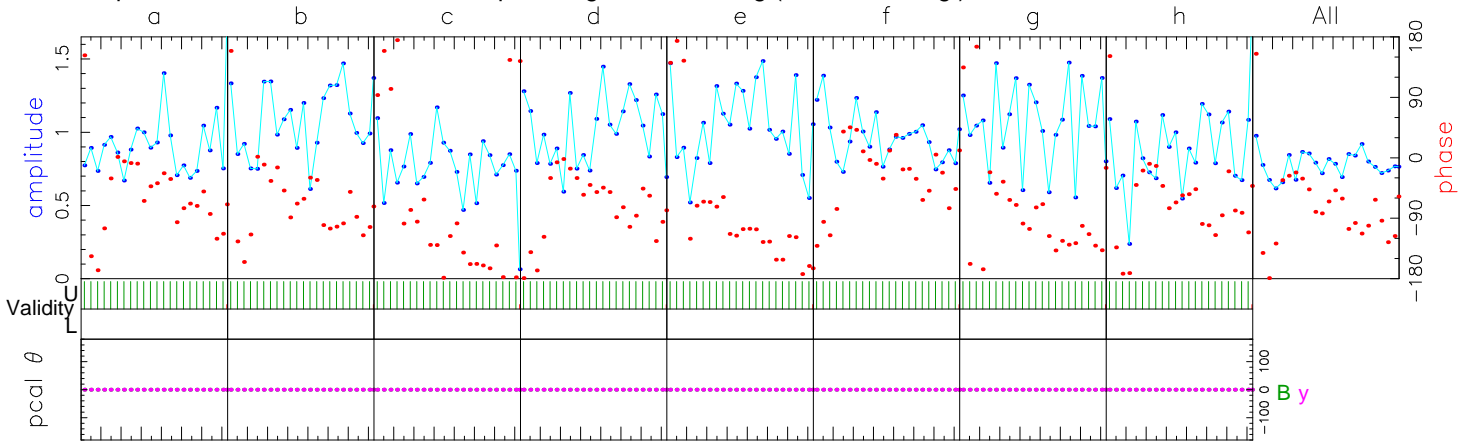


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051200
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



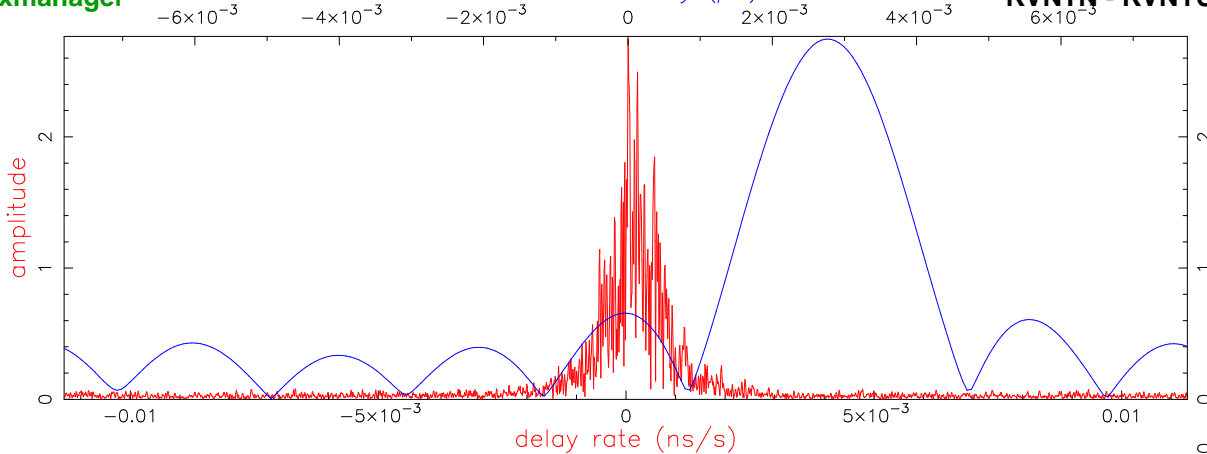
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.0	-78.2	-151.3	-73.1	-120.4	-26.1	-109.7	-72.3	Phase	-85.7
	0.6	0.8	0.5	0.7	0.8	0.6	0.7	0.6	Ampl.	0.7
	256.2	258.4	259.0	259.1	259.3	259.0	258.7	257.2	Sbd box	258.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.23645037016E+03		Apriori delay (usec)		4.23644712432E+03		Resid mbdelay (usec)		3.24584E-03	+/- 3.5E-05
Sband delay (usec)	4.23645162707E+03		Apriori clock (usec)		-2.2770000E+01		Resid sbdelay (usec)		4.50275E-03	+/- 2.8E-04
Phase delay (usec)	4.23644712156E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.76456E-06	+/- 1.2E-07
Delay rate (us/s)	1.41629257537E+00		Apriori rate (us/s)		1.41629246956E+00		Resid rate (us/s)		1.05805E-07	+/- 4.9E-10
Total phase (deg)	18.4		Apriori accel (us/s/s)		-1.02983564898E-05		Resid phase (deg)		-85.7	+/- 3.7

RMS Theor. Amplitude 0.551 +/- 0.018
 ph/seg (deg) 47.5 8.9 Search (2048X32) 0.516
 amp/seg (%) 44.5 15.5 Interp. 0.000
 ph/frq (deg) 42.1 5.3 Inc. seg. avg. 0.770
 amp/frq (%) 25.9 9.2 Inc. frq. avg. 0.659
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 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
 B: az 82.7 el 54.3 pa -58.5 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) -10993.824 454.453 simultaneous interpolator

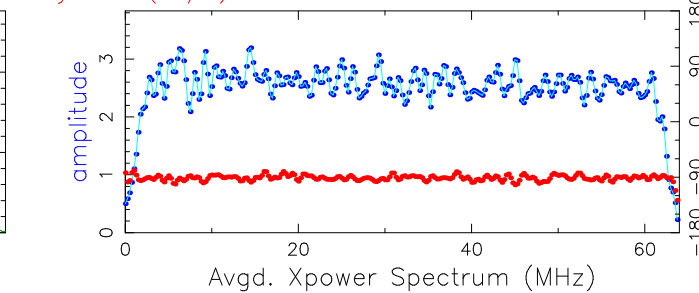
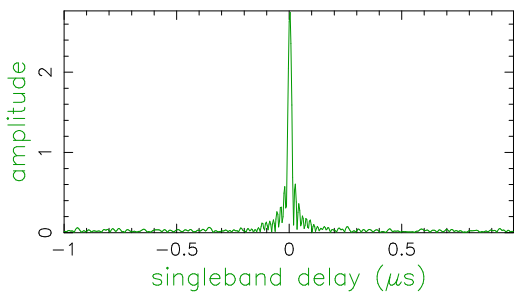
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/By..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/By.W.65.1W6LVT

multiband delay (μ s)

Fringe quality 5

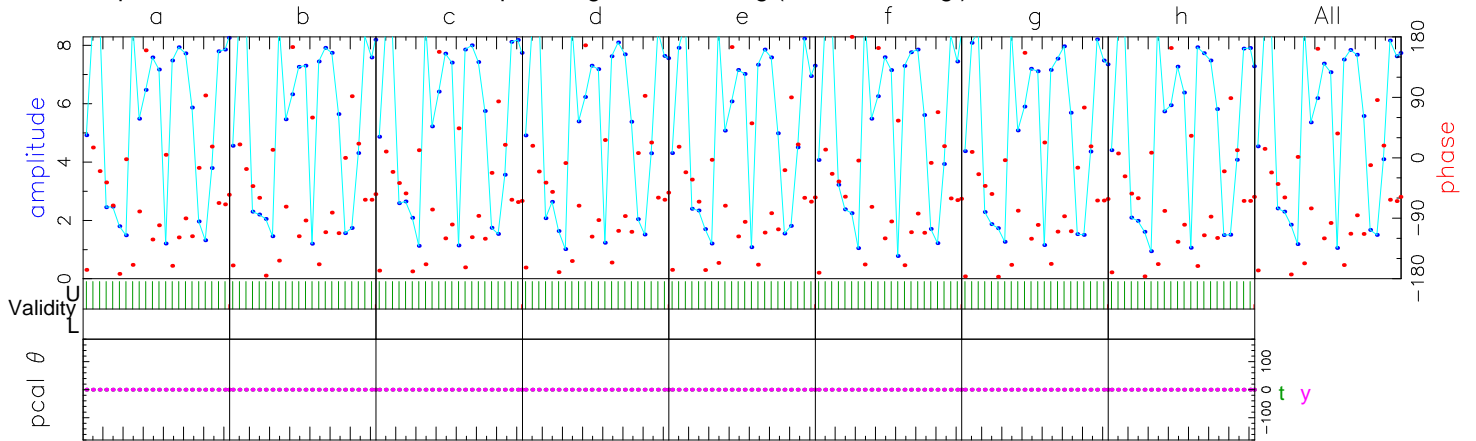


SNR 154.9
Int time 419.840
Amp 2.765
Phase -90.1
PFD 0.0e+00
Delays (us)
SBD 0.002834
MBD 0.002767
Fringe rate (Hz)
0.004102
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051151
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



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

Group delay (usec)(sbd)	-5.26929870510E+02	Apriori delay (usec)	-5.26932637048E+02	Resid mbdelay (usec)	2.76654E-03	+/-	7.0E-06
Sband delay (usec)	-5.26929803048E+02	Apriori clock (usec)	-9.7272301E-01	Resid sbdelay (usec)	2.83400E-03	+/-	5.6E-05
Phase delay (usec)	-5.26932639954E+02	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	-2.90607E-06	+/-	2.4E-08
Delay rate (us/s)	-4.33987107065E-02	Apriori rate (us/s)	-4.33987583258E-02	Resid rate (us/s)	4.76193E-08	+/-	9.8E-11
Total phase (deg)	-218.0	Apriori accel (us/s/s)	-1.82168087816E-06	Resid phase (deg)	-90.1	+/-	0.7

ph/seg (deg)	RMS 76.6	Theor. 1.8	Amplitude 2.765 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	136.9	3.1	Search (2048X32) 2.656	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	3.3	1.0	Inc. seg. avg. 5.347	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	1.9	1.8	Inc. frq. avg. 2.748	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s) -0.011 0.011
				Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC) 0.00 0.00

t: az 301.0 el 37.0 pa 76.3 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 332.672 -532.009 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/ty..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/ty.W.17.1W6LVT

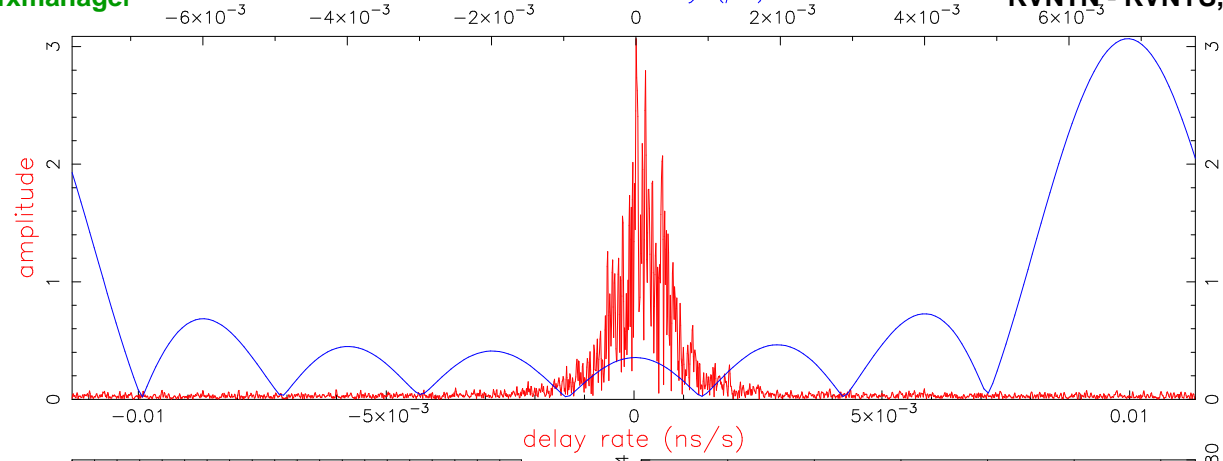
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

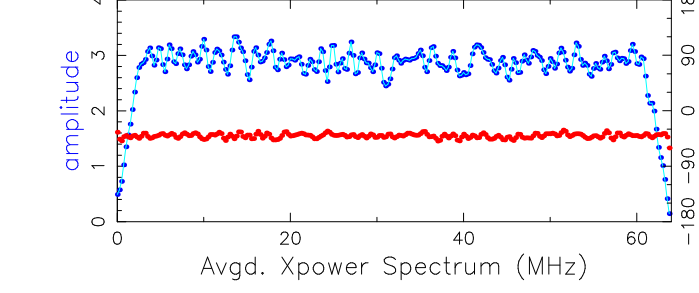
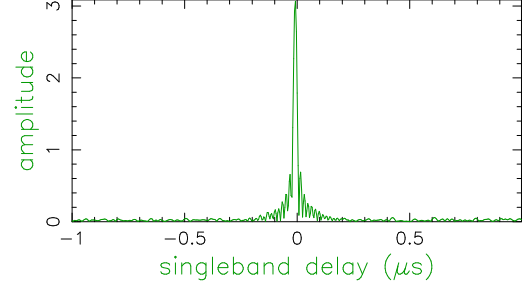
BLLAC.1W6LVT, No0166, ty

KVNTN - KVNY, fgroup W, pol RR

multiband delay (μ s)

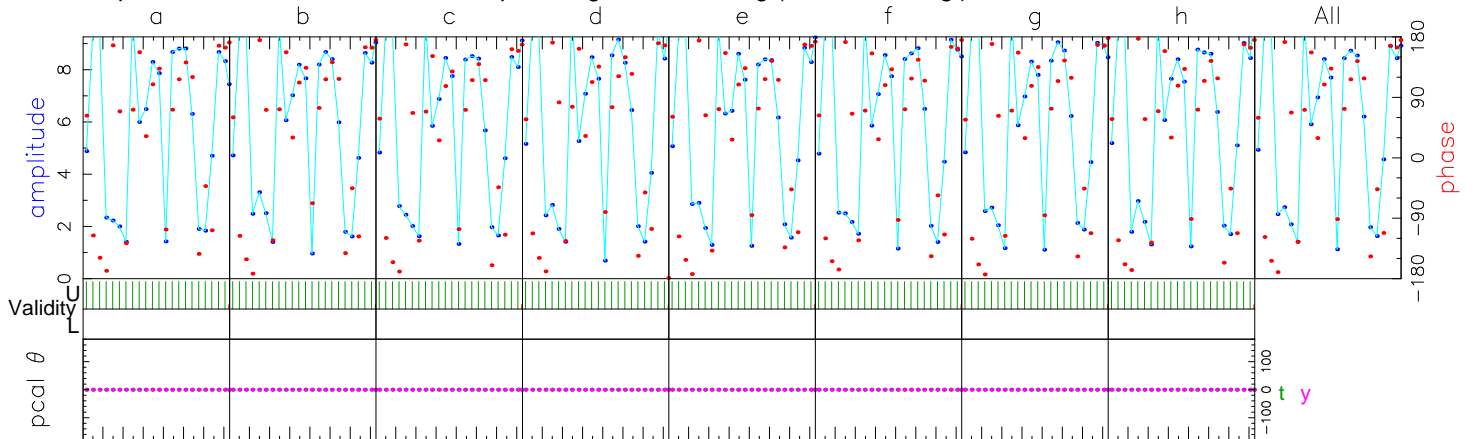


Fringe quality 5
 SNR 173.0
 Int time 419.840
 Amp 3.087
 Phase 139.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.008813
 MBD 0.006815
 Fringe rate (Hz) 0.004086
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051155
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

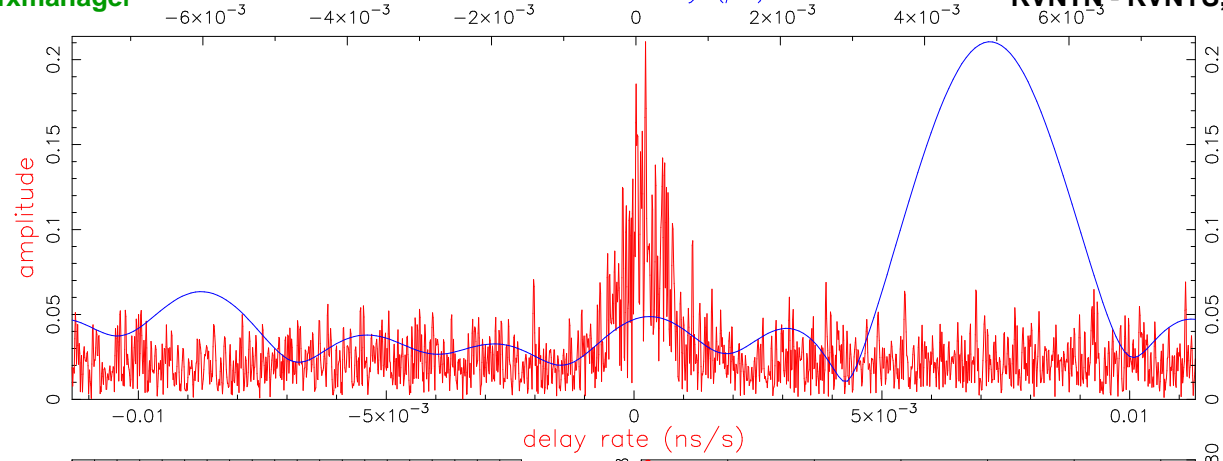
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



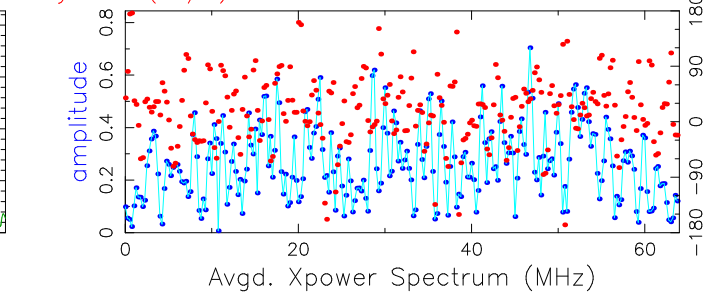
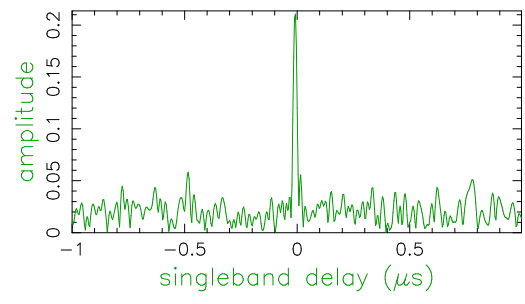
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.26941447541E+02									
Sband delay (usec)	-5.26941450048E+02									
Phase delay (usec)	-5.26932632549E+02									
Delay rate (us/s)	-4.33987108858E-02									
Total phase (deg)			11.6							
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										

t: az 301.0 el 37.0 pa 76.3 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 332.672 -532.009 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/ty..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/ty.W.38.1W6LVT

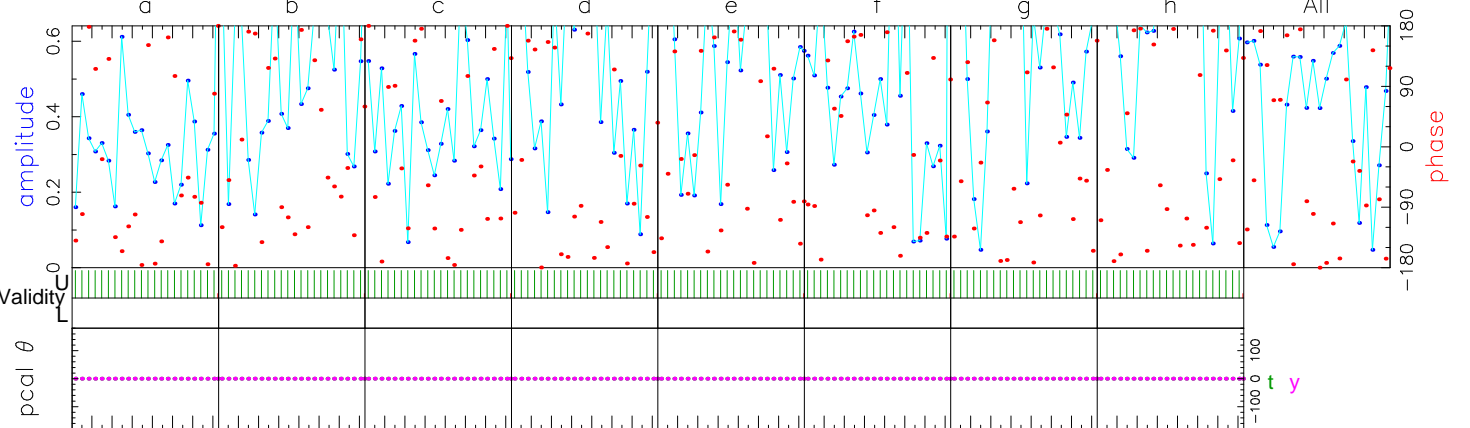
multiband delay (μs)



Fringe quality 9
SNR 12.0
Int time 419.840
Amp 0.214
Phase -147.6
PFD 2.5e-24
Delays (us)
SBD -0.009399
MBD 0.004902
Fringe rate (Hz) 0.020276
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051159
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



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

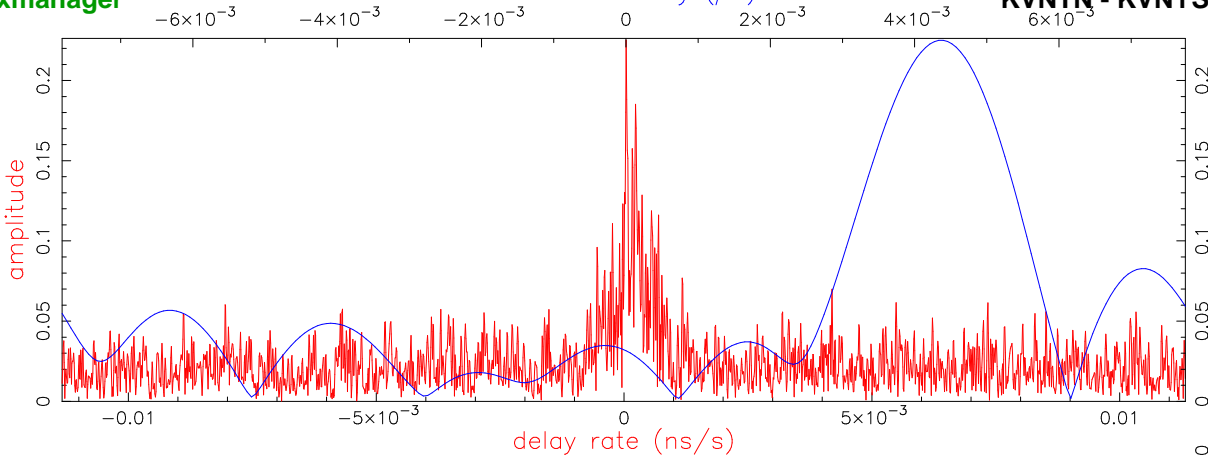


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.4	-134.3	-163.1	-145.9	-139.8	-168.4	-141.2	-144.4	Phase	-147.6
	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.3	Ampl.	0.2
	70.8	262.8	26.0	254.5	325.1	254.4	254.5	254.6	Sbd box	254.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.26943359940E+02		Apriori delay (usec)		-5.26932637048E+02		Resid mbdelay (usec)		4.90211E-03	+/- 9.1E-05
Sband delay (usec)	-5.26942035548E+02		Apriori clock (usec)		-9.7272301E-01		Resid sbdelay (usec)		-9.39850E-03	+/- 7.2E-04
Phase delay (usec)	-5.26932641807E+02		Apriori clockrate (us/s)		-2.0000000E-07		Resid phdelay (usec)		-4.75871E-06	+/- 3.1E-07
Delay rate (us/s)	-4.33985229366E-02		Apriori rate (us/s)		-4.33987583258E-02		Resid rate (us/s)		2.35389E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.82168087816E-06		Resid phase (deg)		-147.6	+/- 9.6

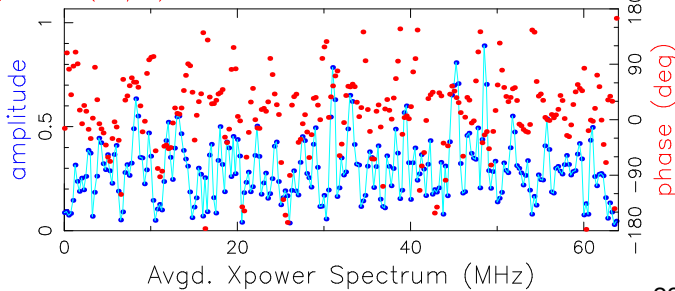
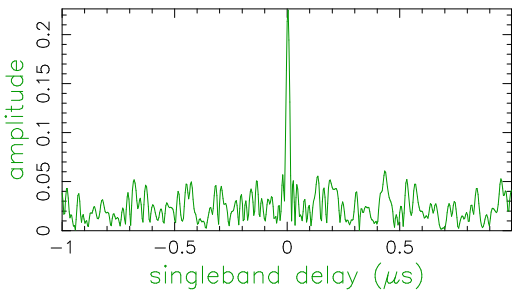
ph/seg (deg) 76.8 22.9 Search (2048X32) 0.206 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 130.0 40.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 12.7 13.5 Inc. seg. avg. 0.380 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 29.7 23.6 Inc. frq. avg. 0.208 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 301.0 el 37.0 pa 76.3 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 332.672 -532.009 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/ty..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/ty.W.55.1W6LVT

multiband delay (μ s)

Fringe quality 9

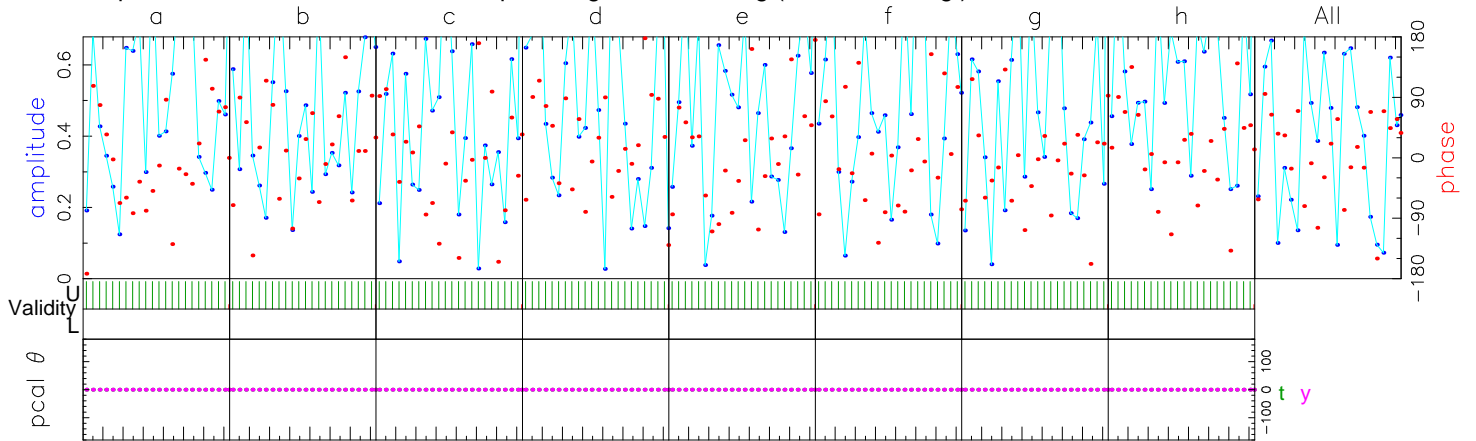


SNR 12.7
Int time 419.840
Amp 0.226
Phase 4.6
PFD 4.3e-28
Delays (us)
SBD 0.003019
MBD 0.004357
Fringe rate (Hz)
0.003940
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051202
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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
	-14.3	13.7	4.4	25.2	6.7	-3.3	-10.4	12.5		4.6
	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3		0.2
	257.6	258.1	258.7	257.7	257.3	257.4	257.6	257.7		257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000		APs used
y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		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
										Tracks
Group delay (usec)(sbd)	-5.26928280010E+02		Apriori delay (usec)		-5.26932637048E+02		Resid mbdelay (usec)		4.35704E-03	+/- 8.6E-05
Sband delay (usec)	-5.26929618298E+02		Apriori clock (usec)		-9.7272301E-01		Resid sbdelay (usec)		3.01875E-03	+/- 6.8E-04
Phase delay (usec)	-5.26932636901E+02		Apriori clockrate (us/s)		-2.0000000E-07		Resid phdelay (usec)		1.47322E-07	+/- 2.9E-07
Delay rate (us/s)	-4.33987125806E-02		Apriori rate (us/s)		-4.33987583258E-02		Resid rate (us/s)		4.57452E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.82168087816E-06		Resid phase (deg)		4.6	+/- 9.0

	RMS	Theor.	Amplitude	0.226 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	63.3	21.7	Search (2048X32)	0.224	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	119.4	37.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	14.2	12.8	Inc. seg. avg.	0.366	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	14.4	22.3	Inc. frq. avg.	0.225	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

t: az 301.0 el 37.0 pa 76.3 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 332.672 -532.009 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/ty..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/ty.W.73.1W6LVT

Mk4/DiFX fourfit 3.21 rev 2937

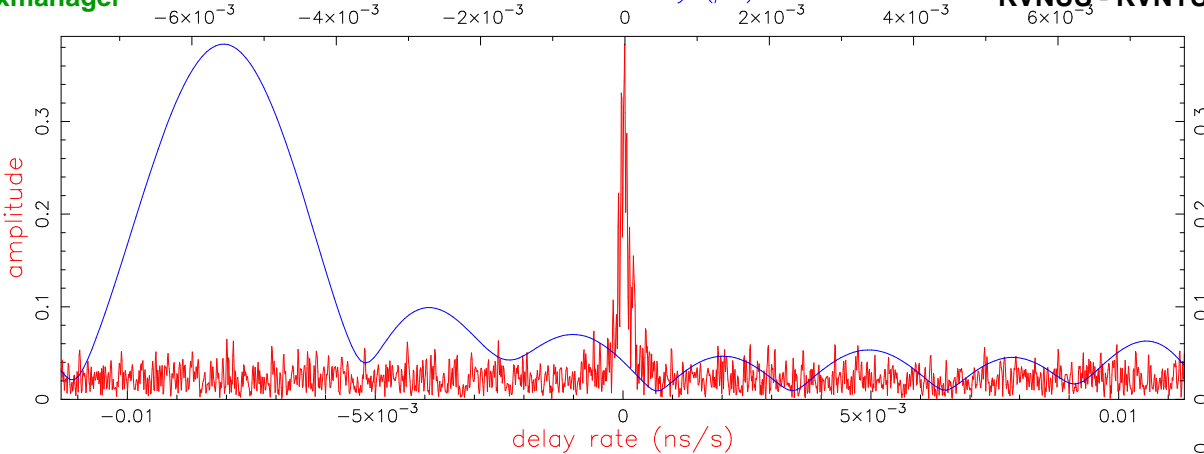
fxmanager

BLLAC.1W6LVT, No0166, uy

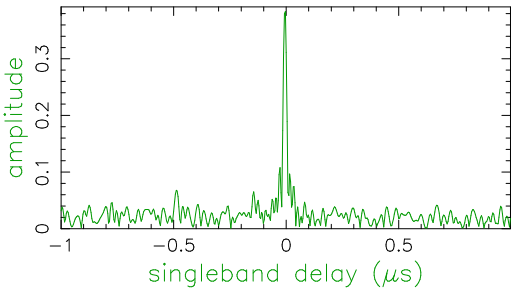
KVNU_S - KVNY_S, fgroup W, pol LR

multiband delay (μ s)

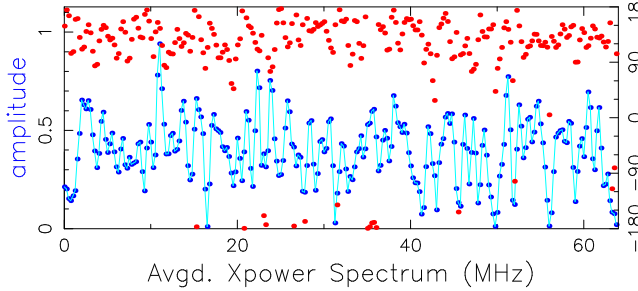
Fringe quality 9



SNR 22.0
 Int time 419.840
 Amp 0.392
 Phase 131.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.005688
 MBD -0.005557
 Fringe rate (Hz)
 0.002970
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

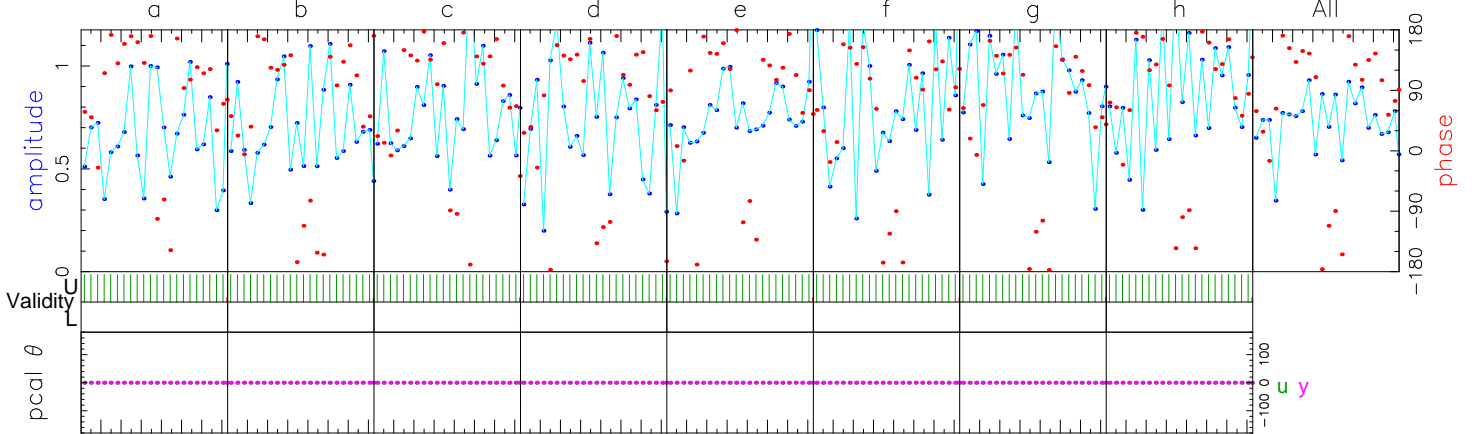


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051212
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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

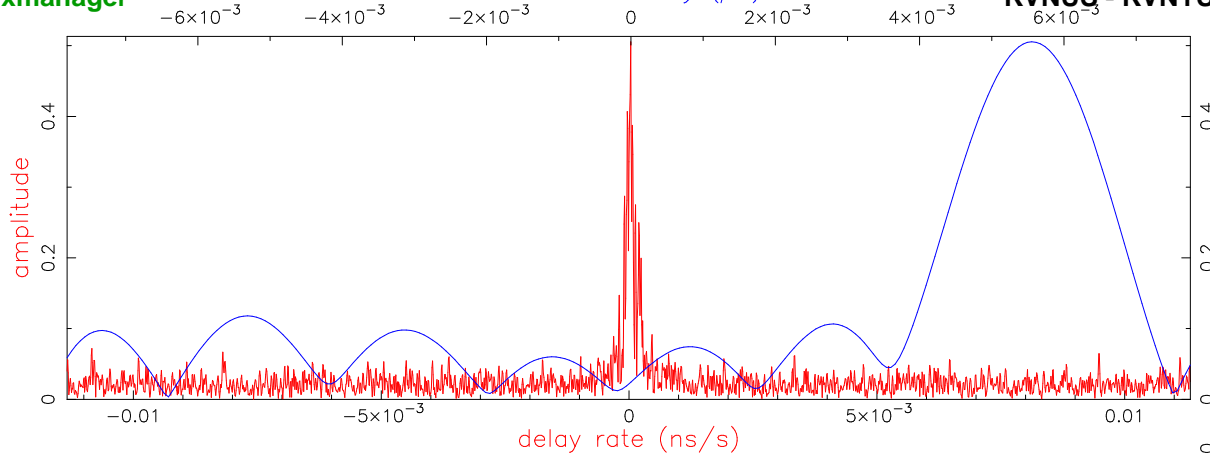


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All			
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0					
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs				
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs				
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase				
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC				
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp				
y	1000	1000	1000	1000	1000	1000	1000	1000					
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids				
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks				
Group delay (usec)(sbd)	-7.61017053548E+02				-7.61011496545E+02				Resid mbdelay (usec)	-5.55700E-03	+/- 4.9E-05		
Sband delay (usec)	-7.61017184795E+02					1.3789326E+01			Resid sbdelay (usec)	-5.68825E-03	+/- 3.9E-04		
Phase delay (usec)	-7.61011492301E+02					1.1270000E-06			Resid phdelay (usec)	4.24398E-06	+/- 1.7E-07		
Delay rate (us/s)	-3.50095407248E-02					-3.50095752039E-02			Resid rate (us/s)	3.44791E-08	+/- 6.9E-10		
Total phase (deg)			19.1			1.96823058357E-06			Resid phase (deg)	131.6	+/- 5.2		
	RMS	Theor.	Amplitude	0.392 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	66.8	12.5	Search (2048X32)	0.376					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
amp/seg (%)	94.3	21.8	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	8.4	7.4	Inc. seg. avg.	0.720					Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
amp/frq (%)	13.6	12.9	Inc. frq. avg.	0.384					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

u: az 300.3 el 36.1 pa 71.6 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 274.506 -47.404 simultaneous interpolator

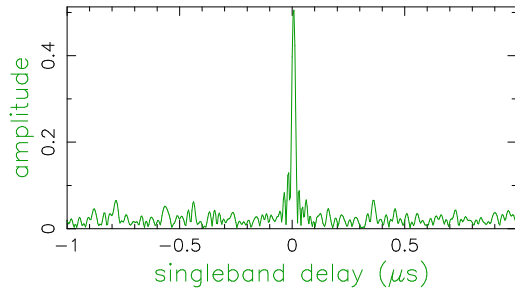
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/uy..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/uy.W.116.1W6LVT

multiband delay (μ s)

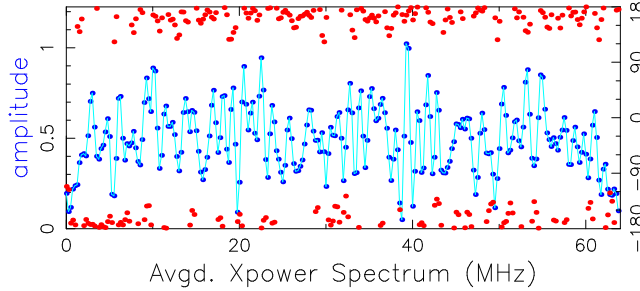


Fringe quality 7

SNR 28.7
Int time 419.840
Amp 0.513
Phase -176.1
PFD 0.0e+00
Delays (us)
SBD 0.006230
MBD 0.005552
Fringe rate (Hz)
0.003133
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

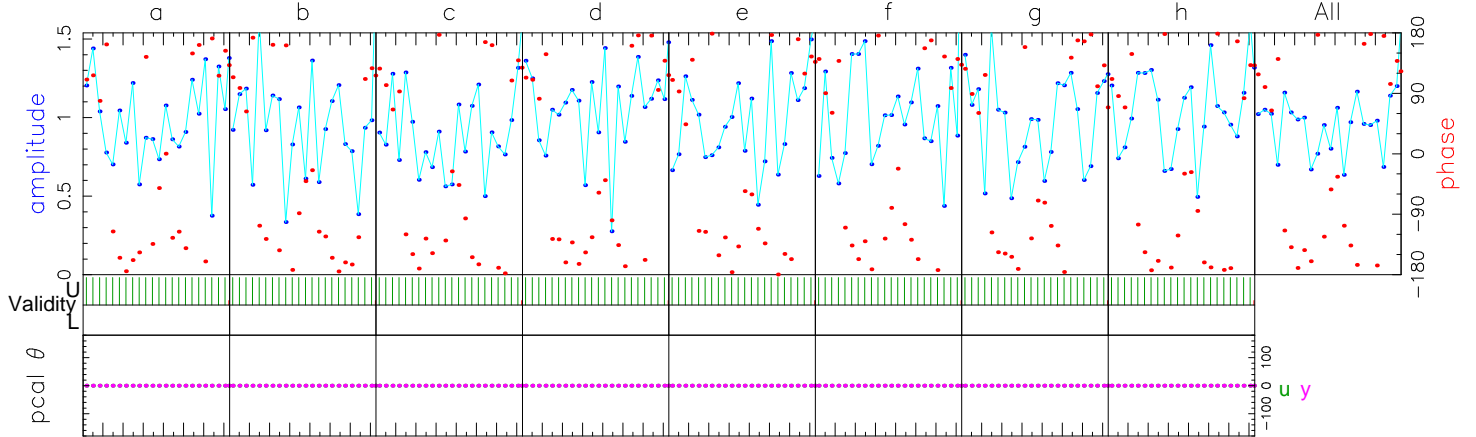


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051215
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

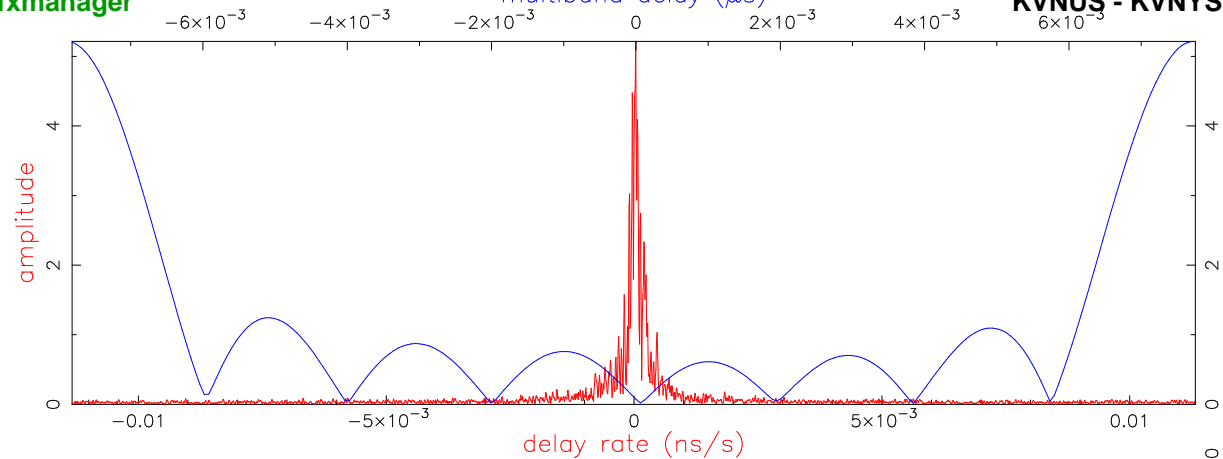
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.61005944329E+02	-7.61005266545E+02	-7.61011502224E+02	-7.61011496545E+02	-7.61011496545E+02	-7.61011496545E+02	-7.61011496545E+02	-7.61011496545E+02		
Sband delay (usec)	-7.61005266545E+02	-7.61005266545E+02	-7.61011502224E+02	-7.61011496545E+02	-7.61011496545E+02	-7.61011496545E+02	-7.61011496545E+02	-7.61011496545E+02		
Phase delay (usec)	-7.61011502224E+02	-7.61011502224E+02	-7.61011502224E+02	-7.61011502224E+02	-7.61011502224E+02	-7.61011502224E+02	-7.61011502224E+02	-7.61011502224E+02		
Delay rate (us/s)	-3.50095388358E-02	-3.50095388358E-02	-3.50095388358E-02	-3.50095388358E-02	-3.50095388358E-02	-3.50095388358E-02	-3.50095388358E-02	-3.50095388358E-02		
Total phase (deg)			-288.6							
Apriori delay (usec)				0.490	0.490	0.490	0.490	0.490		
Apriori clock (usec)				1.3789326E+01	1.3789326E+01	1.3789326E+01	1.3789326E+01	1.3789326E+01		
Apriori clockrate (us/s)				1.1270000E-06	1.1270000E-06	1.1270000E-06	1.1270000E-06	1.1270000E-06		
Apriori rate (us/s)				-3.50095752039E-02	-3.50095752039E-02	-3.50095752039E-02	-3.50095752039E-02	-3.50095752039E-02		
Apriori accel (us/s/s)				1.96823058357E-06	1.96823058357E-06	1.96823058357E-06	1.96823058357E-06	1.96823058357E-06		
Resid mbdelay (usec)				5.55222E-03	5.55222E-03	5.55222E-03	5.55222E-03	5.55222E-03		+/- 3.8E-05
Resid sbdelay (usec)				6.23000E-03	6.23000E-03	6.23000E-03	6.23000E-03	6.23000E-03		+/- 3.0E-04
Resid phdelay (usec)				-5.67886E-06	-5.67886E-06	-5.67886E-06	-5.67886E-06	-5.67886E-06		+/- 1.3E-07
Resid rate (us/s)				3.63681E-08	3.63681E-08	3.63681E-08	3.63681E-08	3.63681E-08		+/- 5.3E-10
Resid phase (deg)				-176.1	-176.1	-176.1	-176.1	-176.1		+/- 4.0
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5		PC period (AP's) 5, 5		PC period (AP's) 5, 5			
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		0.000E+00, 0.000E+00 (us/s)		0.000E+00, 0.000E+00 (us/s)		0.000E+00, 0.000E+00 (us/s)			
Bits/sample:	2x2		SampCntNorm: enabled		SampCntNorm: enabled		SampCntNorm: enabled			
Sample rate (MSamp/s):	128		128		128		128			
Data rate (Mb/s):	2048		2048		2048		2048			
nlags:	256		t_cohere infinite		t_cohere infinite		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								

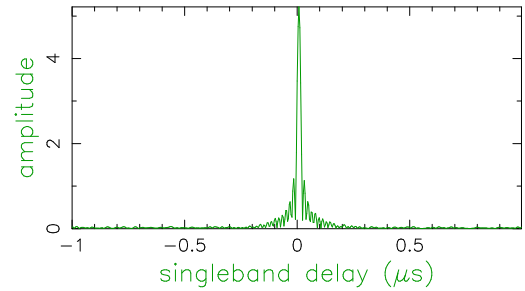
ph/seg (deg) 63.2 9.6 Search (2048X32) 0.490 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 92.5 16.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 8.2 5.6 Inc. seg. avg. 0.942 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.7 9.8 Inc. frq. avg. 0.507 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
u: az 300.3 el 36.1 pa 71.6 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 274.506 -47.404 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/uy..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/uy.W.131.1W6LVT

multiband delay (μ s)

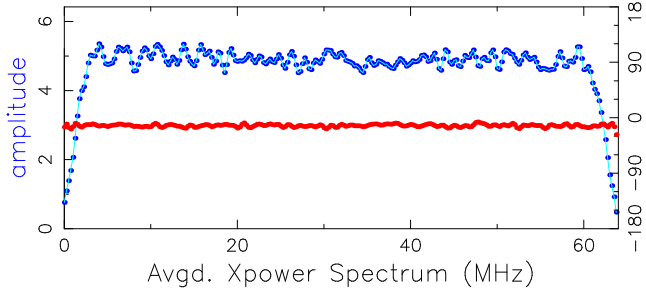


Fringe quality 5

SNR 292.2
Int time 419.840
Amp 5.216
Phase 167.5
PFD 0.0e+00
Delays (us)
SBD 0.007755
MBD -0.007893
Fringe rate (Hz)
0.003085
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

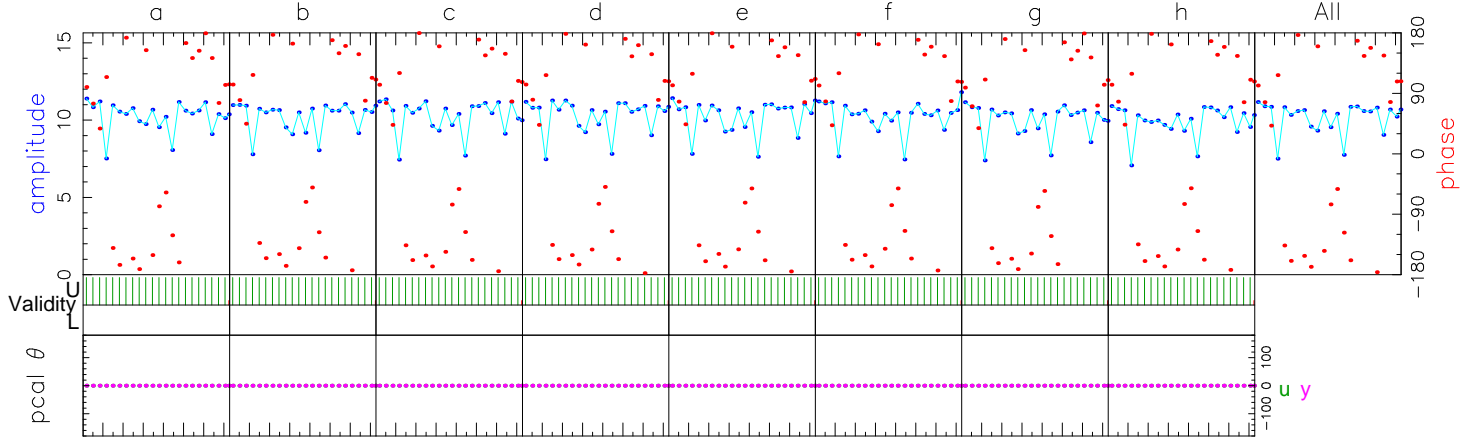


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051205
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0				
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC			
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
y	1000	1000	1000	1000	1000	1000	1000	1000				
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Tracks			
Group delay (usec)(sbd)	-7.61003764548E+02				-7.61011496545E+02				Resid mbdelay (usec)	-7.89300E-03 +/- 3.7E-06		
Sband delay (usec)	-7.61003741545E+02					1.3789326E+01			Resid sbdelay (usec)	7.75500E-03 +/- 2.9E-05		
Phase delay (usec)	-7.61011491143E+02					1.1270000E-06			Resid phdelay (usec)	5.40231E-06 +/- 1.3E-08		
Delay rate (us/s)	-3.50095393927E-02					-3.50095752039E-02			Resid rate (us/s)	3.58112E-08 +/- 5.2E-11		
Total phase (deg)			55.1			1.96823058357E-06			Resid phase (deg)	167.5 +/- 0.4		
	RMS	Theor.	Amplitude	5.216 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	65.0	0.9	Search (2048X32)	5.135					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	96.8	1.6	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	2.8	0.6	Inc. seg. avg.	10.171					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	1.6	1.0	Inc. frq. avg.	5.222					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

u: az 300.3 el 36.1 pa 71.6 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 274.506 -47.404 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/uy..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/uy.W.82.1W6LVT

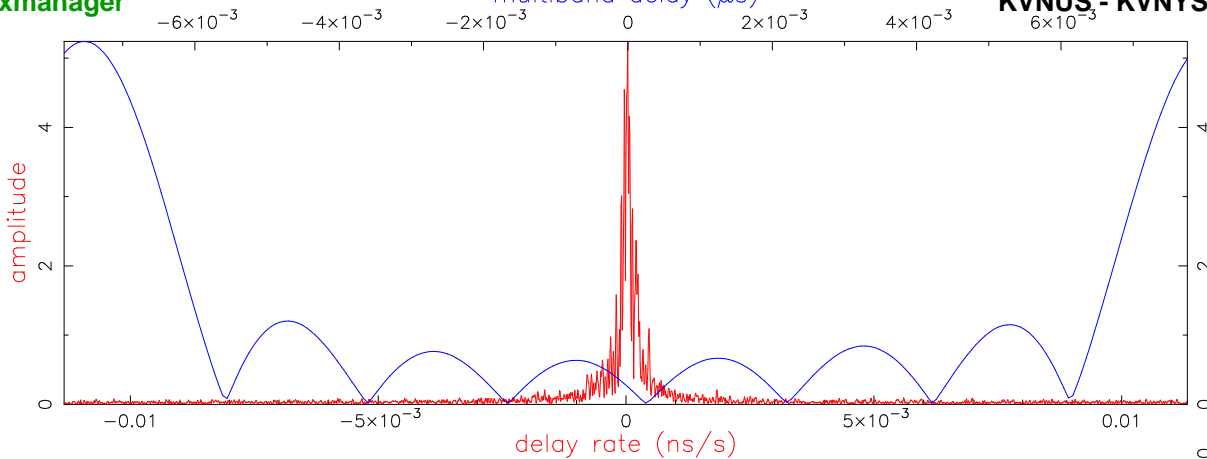
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, uy

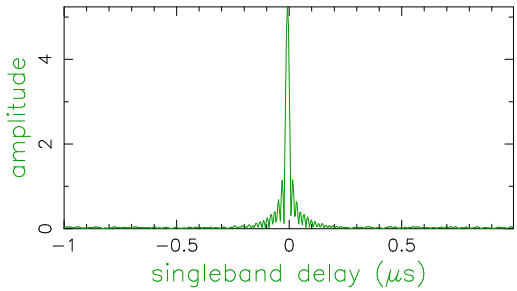
KVNU_S - KVNY_S, fgroup W, pol RR

multiband delay (μ s)

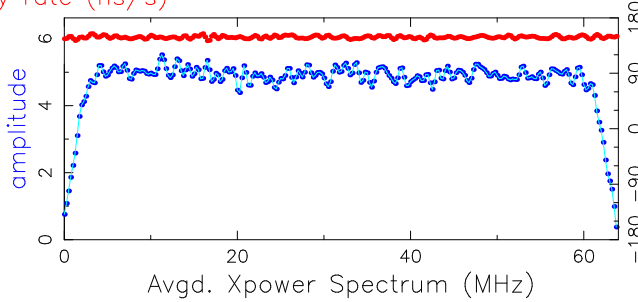


Fringe quality 5

SNR 293.7
 Int time 419.840
 Amp 5.242
 Phase 148.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.007538
 MBD -0.007533
 Fringe rate (Hz)
 0.003093
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

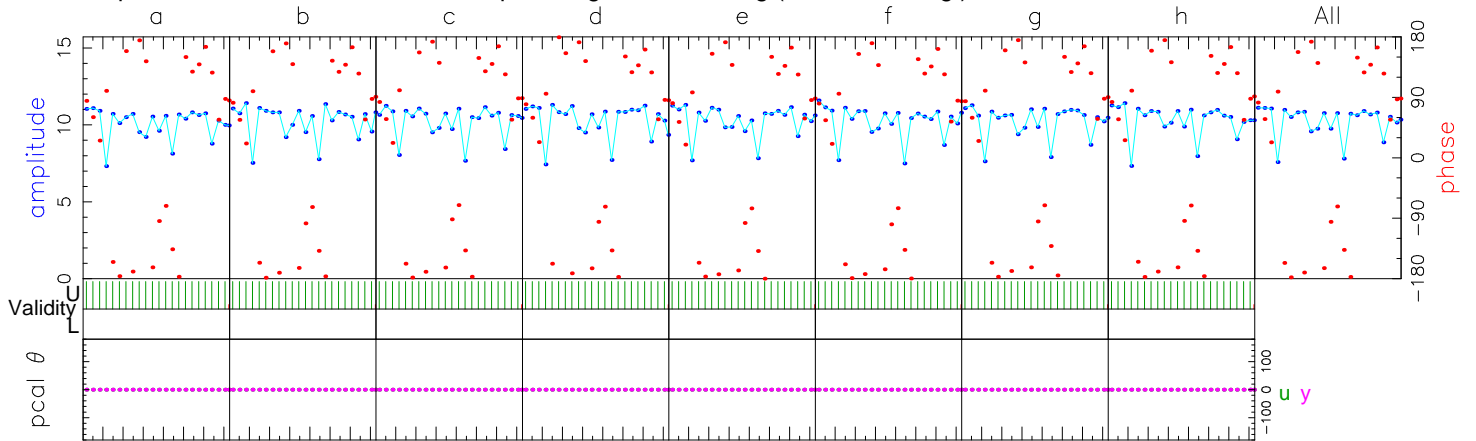


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051209
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All				
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0						
u	1000	1000	1000	1000	1000	1000	1000	1000	APs used					
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
y	1000	1000	1000	1000	1000	1000	1000	1000						
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids					
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks					
									Chan ids					
									Tracks					
Group delay (usec)(sbd)	-7.61019029798E+02								Apriori delay (usec)	-7.61011496545E+02	Resid mbdelay (usec)	-7.53325E-03	+/-	3.7E-06
Sband delay (usec)	-7.61019034295E+02								Apriori clock (usec)	1.3789326E+01	Resid sbdelay (usec)	-7.53775E-03	+/-	2.9E-05
Phase delay (usec)	-7.61011491754E+02								Apriori clockrate (us/s)	1.1270000E-06	Resid phdelay (usec)	4.79086E-06	+/-	1.3E-08
Delay rate (us/s)	-3.50095392956E-02								Apriori rate (us/s)	-3.50095752039E-02	Resid rate (us/s)	3.59083E-08	+/-	5.2E-11
Total phase (deg)			36.1						Apriori accel (us/s/s)	1.96823058357E-06	Resid phase (deg)	148.6	+/-	0.4

ph/seg (deg) 64.9 0.9
 amp/seg (%) 97.6 1.6
 ph/frq (deg) 1.5 0.6
 amp/frq (%) 1.0 1.0

RMS Theor. Amplitude 5.242 +/- 0.018
 Search (2048X32) 5.071
 Interp. 0.000
 Inc. seg. avg. 10.261
 Inc. frq. avg. 5.243

Group delay (usec)(sbd) -7.61019029798E+02
 Sband delay (usec) -7.61019034295E+02
 Phase delay (usec) -7.61011491754E+02
 Delay rate (us/s) -3.50095392956E-02
 Total phase (deg) 36.1

Apriori delay (usec) -7.61011496545E+02
 Apriori clock (usec) 1.3789326E+01
 Apriori clockrate (us/s) 1.1270000E-06
 Apriori rate (us/s) -3.50095752039E-02
 Apriori accel (us/s/s) 1.96823058357E-06

Resid mbdelay (usec) -7.53325E-03
 Resid sbdelay (usec) -7.53775E-03
 Resid phdelay (usec) 4.79086E-06
 Resid rate (us/s) 3.59083E-08
 Resid phase (deg) 148.6

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
 SampCntNorm: enabled
 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

u: az 300.3 el 36.1 pa 71.6
 y: az 298.2 el 38.8 pa 70.6
 u,v (fr/asec) 274.506 -47.404

simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/uy..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/uy.W.99.1W6LVT

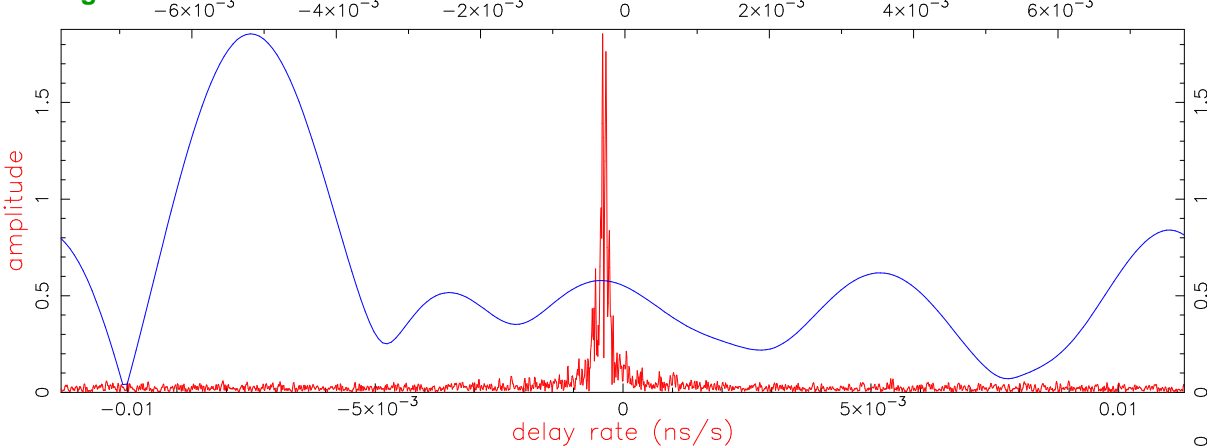
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yN

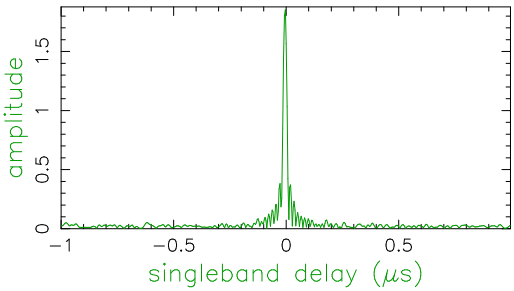
KVNYS- NOEMA, fgroup W, pol LR

multiband delay (μ s)

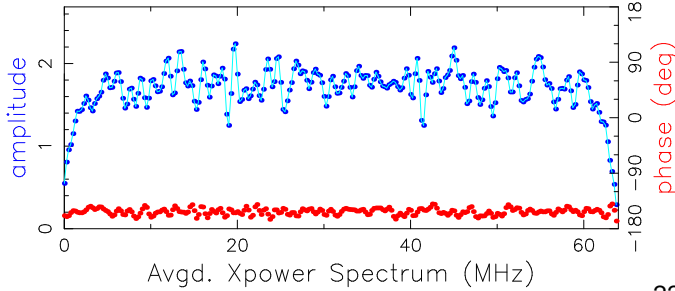


Fringe quality 3

SNR 105.2
 Int time 419.823
 Amp 1.878
 Phase -153.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.005283
 MBD -0.005184
 Fringe rate (Hz)
 -0.035238
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

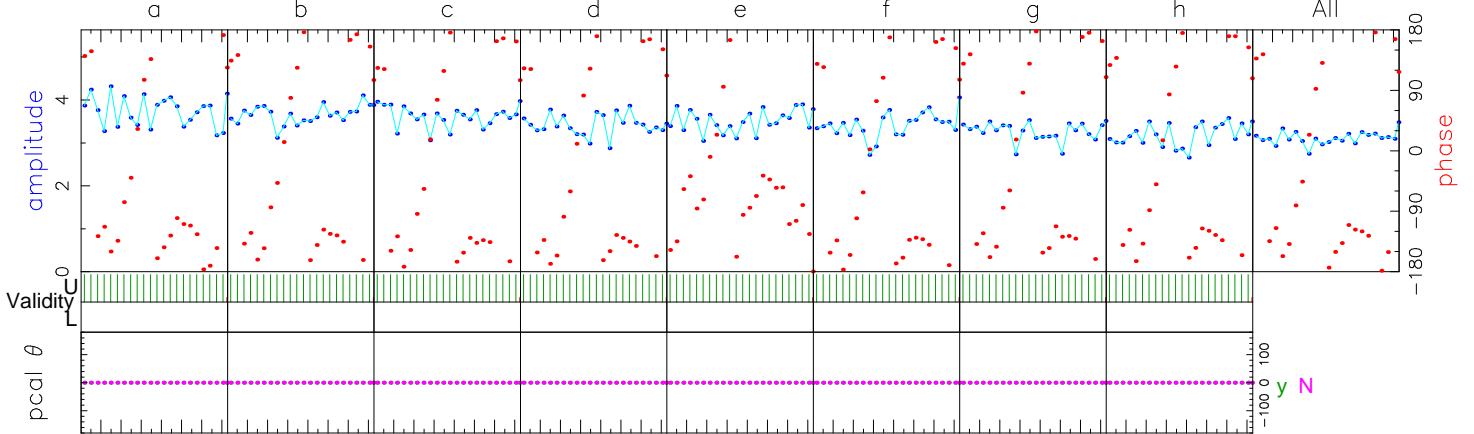


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051212
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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
	-147.7	-160.6	-168.6	-166.8	-80.7	-169.5	-159.5	-158.8	Phase	-153.5
	2.2	2.2	2.1	2.1	2.1	2.1	2.0	1.8	Ampl.	2.1
	255.4	255.6	255.7	255.6	255.8	255.9	255.8	255.6	Sbd box	255.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.86328878027E+03		Apriori delay (usec)		-3.86328359595E+03		Resid mbdelay (usec)		-5.18432E-03	+/- 1.0E-05
Sband delay (usec)	-3.86328887920E+03		Apriori clock (usec)		1.4013845E+01		Resid sbdelay (usec)		-5.28325E-03	+/- 8.2E-05
Phase delay (usec)	-3.86328360089E+03		Apriori clockrate (us/s)		7.6350003E-06		Resid phdelay (usec)		-4.94843E-06	+/- 3.5E-08
Delay rate (us/s)	-1.49246530408E+00		Apriori rate (us/s)		-1.49246489500E+00		Resid rate (us/s)		-4.09081E-07	+/- 1.4E-10
Total phase (deg)			Apriori accel (us/s/s)		1.35288795778E-05		Resid phase (deg)		-153.5	+/- 1.1

RMS Theor. Amplitude 1.878 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.0 2.6 Search (2048X32) 1.793 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 65.6 4.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 31.9 1.5 Inc. seg. avg. 3.101 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 12.2 2.7 Inc. frq. avg. 2.075 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

y: az 298.2 el 38.8 pa 70.6 N: az 74.4 el 52.5 pa -68.2 u,v (fr/asec) 11590.504 222.924 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yN..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yN.W.114.1W6LVT

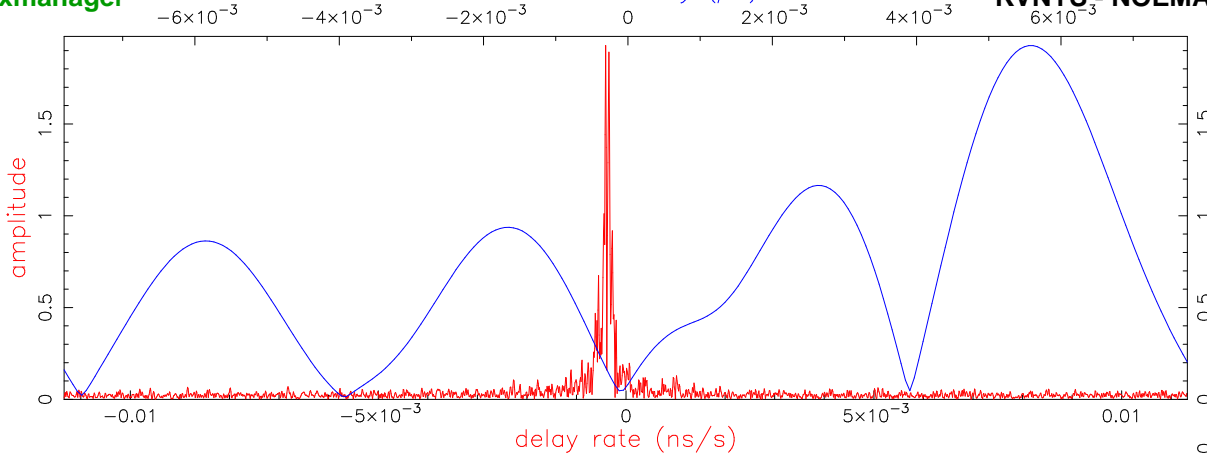
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yN

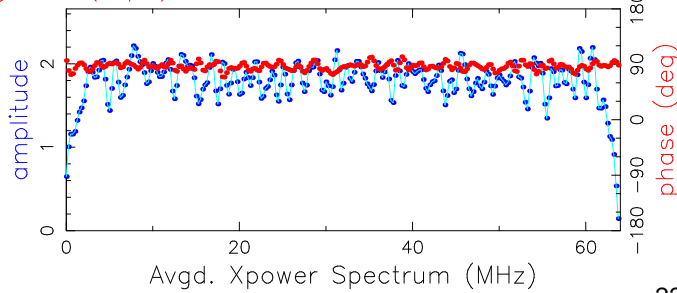
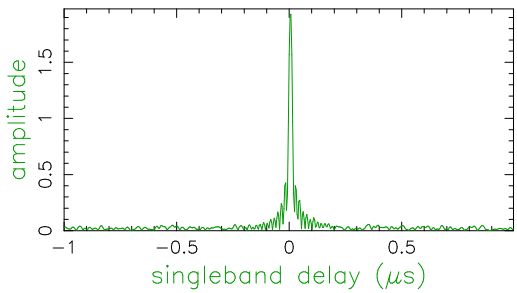
KVNYS- NOEMA, fgroup W, pol RL

multiband delay (μ s)



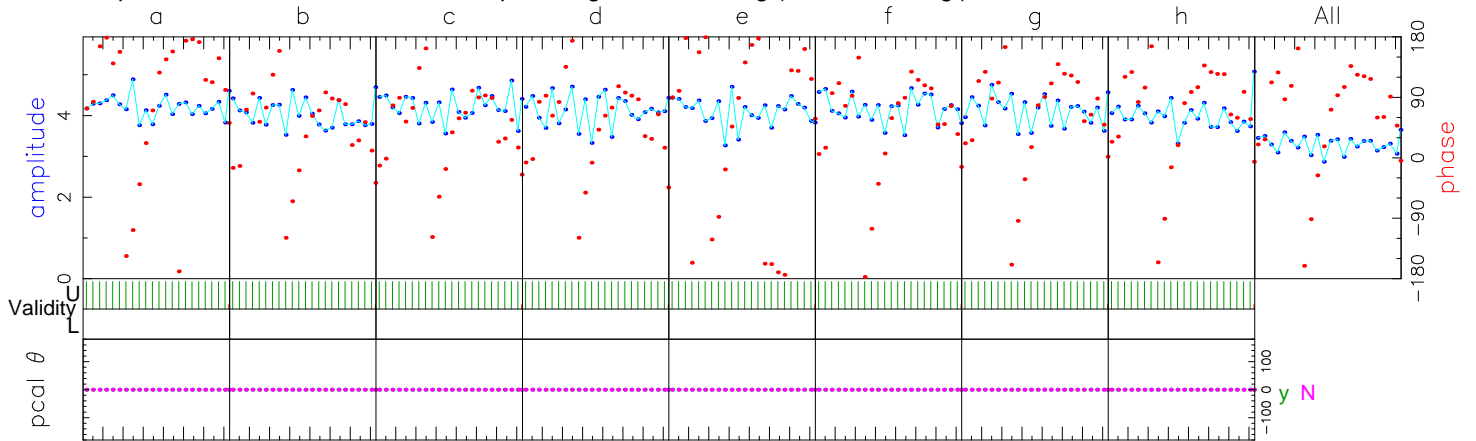
Fringe quality 2

SNR 110.7
 Int time 419.823
 Amp 1.977
 Phase 89.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.005845
 MBD 0.005578
 Fringe rate (Hz)
 -0.035197
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051215
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.86327801836E+03								5.57758E-03	+/- 9.8E-06
Sband delay (usec)	-3.86327775095E+03								5.84500E-03	+/- 7.8E-05
Phase delay (usec)	-3.86328359305E+03								2.89478E-06	+/- 3.3E-08
Delay rate (us/s)	-1.49246530360E+00								-4.08603E-07	+/- 1.4E-10
Total phase (deg)			-254.0						89.8	+/- 1.0
			Apriori delay (usec)						Resid mbdelay (usec)	
			Apriori clock (usec)						Resid sbdelay (usec)	
			Apriori clockrate (us/s)						Resid phdelay (usec)	
			Apriori rate (us/s)						Resid rate (us/s)	
			Apriori accel (us/s/s)						Resid phase (deg)	
ph/seg (deg)	63.6	2.5	Search (2048X32)	1.868					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.4	4.3	Interp.	0.000					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	43.8	1.5	Inc. seg. avg.	3.293					Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	22.8	2.6	Inc. frq. avg.	2.420					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
									Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite
y: az 298.2 el 38.8 pa 70.6			N: az 74.4 el 52.5 pa -68.2							
										simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0166/yN..1W6LVT							Output file: /Exps/c211a/v2/1234/No0166/yN.W.130.1W6LVT

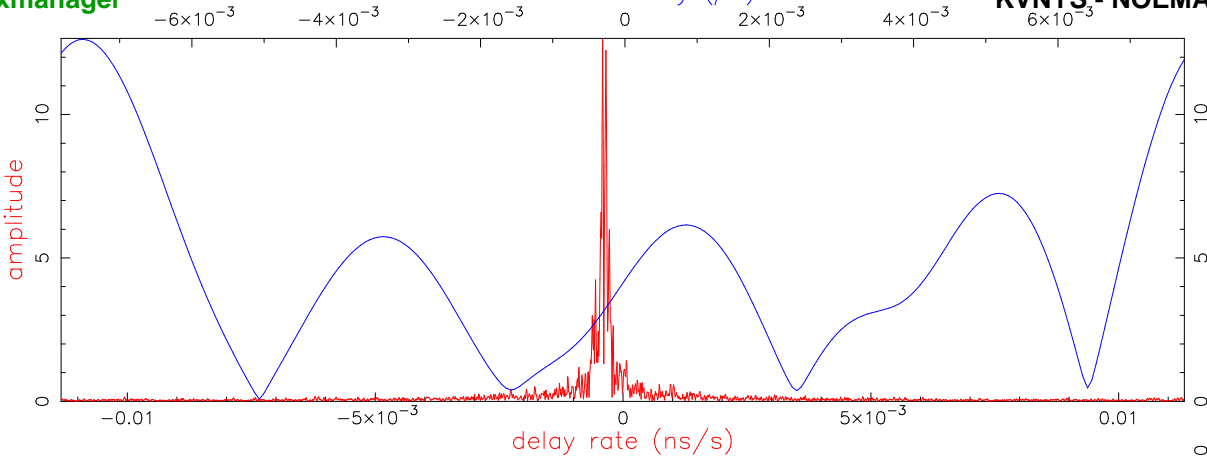
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yN

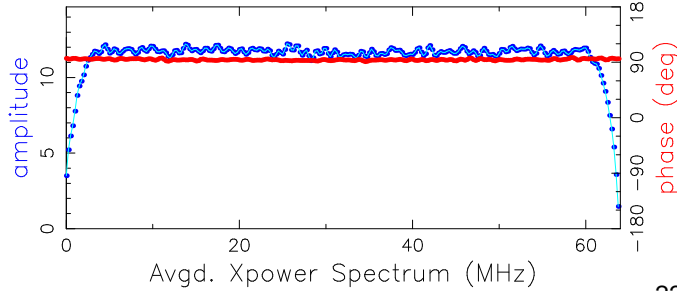
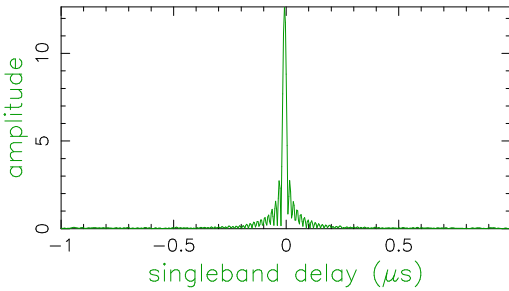
KVNYS- NOEMA, fgroup W, pol LL

multiband delay (μs)



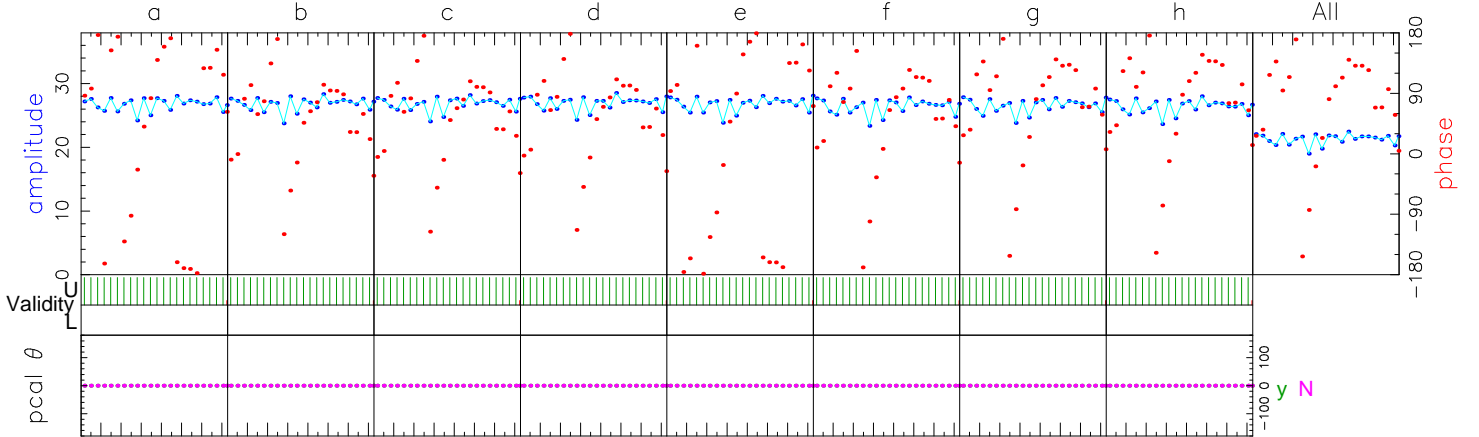
Fringe quality 2

SNR 708.7
 Int time 419.823
 Amp 12.655
 Phase 97.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.007245
 MBD -0.007513
 Fringe rate (Hz)
 -0.035205
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051205
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



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

Group delay (usec)(sbd)	-3.86329110911E+03	Apriori delay (usec)	-3.86328359595E+03	Resid mbdelay (usec)	-7.51317E-03	+/-	1.5E-06
Sband delay (usec)	-3.86329084095E+03	Apriori clock (usec)	1.4013845E+01	Resid sbdelay (usec)	-7.24500E-03	+/-	1.2E-05
Phase delay (usec)	-3.86328359281E+03	Apriori clockrate (us/s)	7.6350003E-06	Resid phdelay (usec)	3.13655E-06	+/-	5.2E-09
Delay rate (us/s)	-1.49246530370E+00	Apriori rate (us/s)	-1.49246489500E+00	Resid rate (us/s)	-4.08699E-07	+/-	2.2E-11
Total phase (deg)	-246.5	Apriori accel (us/s/s)	1.35288795778E-05	Resid phase (deg)	97.3	+/-	0.2

ph/seg (deg)	63.5	Theor.	0.4	Amplitude	12.655 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	68.5			Search (2048X32)	12.372	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	43.7			Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	25.1			Inc. seg. avg.	21.289	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	15.829	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

y: az 298.2 el 38.8 pa 70.6 N: az 74.4 el 52.5 pa -68.2 u,v (fr/asec) 11590.504 222.924 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yN..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yN.W.83.1W6LVT

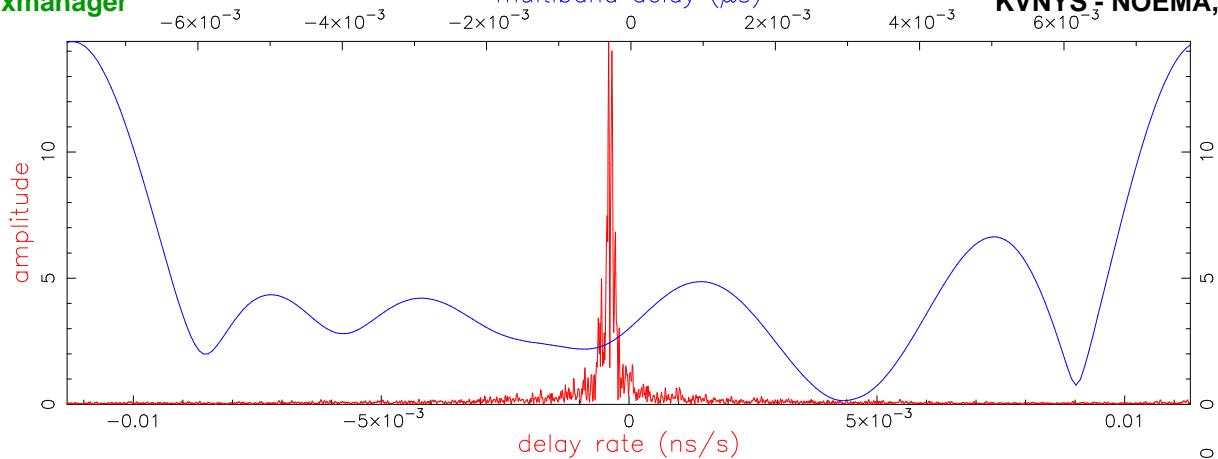
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yN

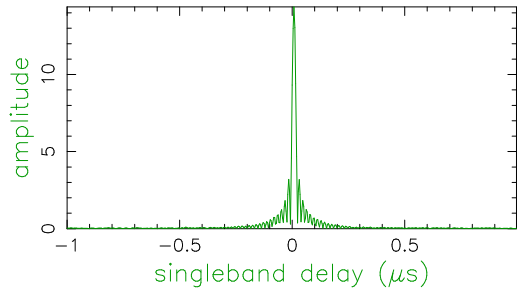
KVNYS - NOEMA, fgroup W, pol RR

multiband delay (μs)

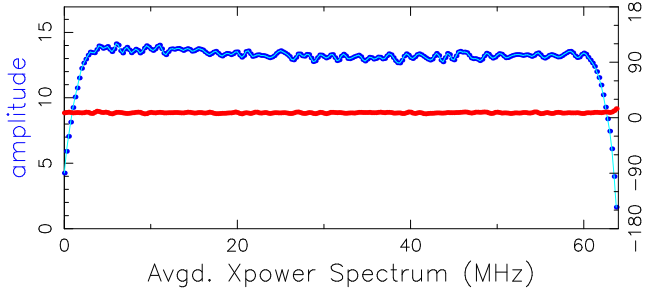


Fringe quality 3

SNR 805.9
 Int time 419.823
 Amp 14.390
 Phase -172.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.007856
 MBD -0.007734
 Fringe rate (Hz)
 -0.035218
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

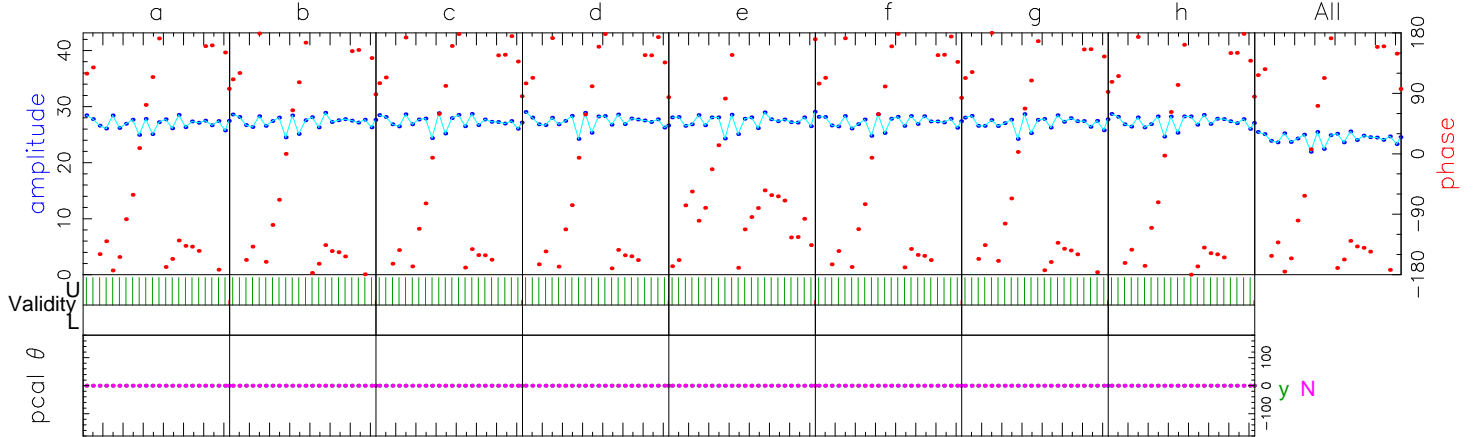


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051209
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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
	-171.1	-178.6	175.7	174.8	-96.2	175.1	-176.3	177.5	Phase	-172.4
	15.9	16.1	16.1	16.3	16.2	16.1	16.0	16.2	Ampl.	16.1
	258.9	259.0	259.1	258.9	259.1	259.0	259.1	259.0	Sbd box	259.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.86327570526E+03		Apriori delay (usec)		-3.86328359595E+03		Resid mbdelay (usec)		-7.73431E-03	+/- 1.3E-06
Sband delay (usec)	-3.86327574020E+03		Apriori clock (usec)		1.4013845E+01		Resid sbdelay (usec)		7.85575E-03	+/- 1.1E-05
Phase delay (usec)	-3.86328360150E+03		Apriori clockrate (us/s)		7.6350003E-06		Resid phdelay (usec)		-5.55838E-06	+/- 4.6E-09
Delay rate (us/s)	-1.49246530385E+00		Apriori rate (us/s)		-1.49246489500E+00		Resid rate (us/s)		-4.08850E-07	+/- 1.9E-11
Total phase (deg)			Apriori accel (us/s/s)		1.35288795778E-05		Resid phase (deg)		-172.4	+/- 0.1

ph/seg (deg) 63.5 0.3 Amplitude 14.390 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.5 0.6 Search (2048X32) 13.997 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.7 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.1 0.4 Inc. seg. avg. 24.353 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 y: az 298.2 el 38.8 pa 70.6 N: az 74.4 el 52.5 pa -68.2 u,v (fr/asec) 11590.504 222.924 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yN..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yN.W.98.1W6LVT

simultaneous interpolator

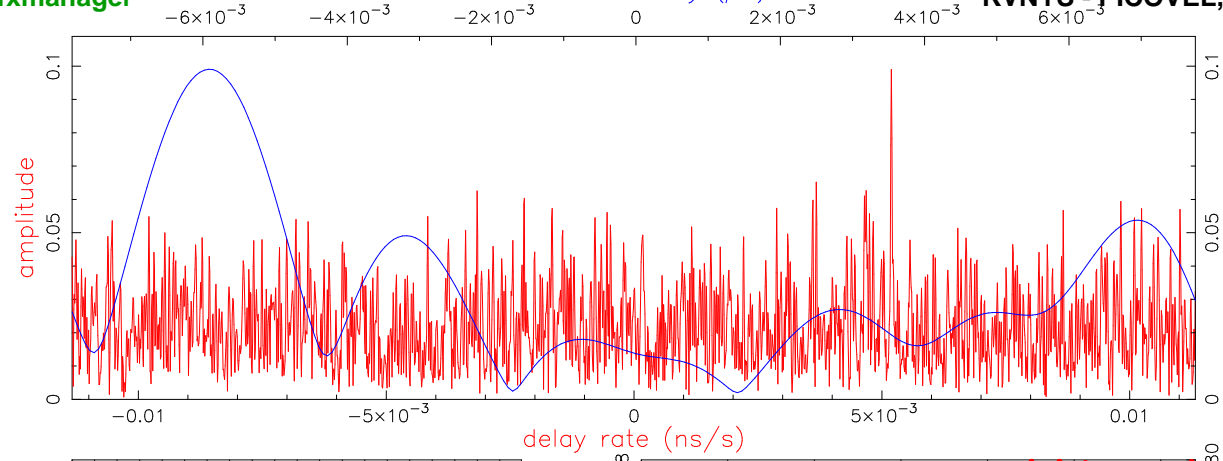
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yP

KVNS - PICOVEL, fgroup W, pol RR

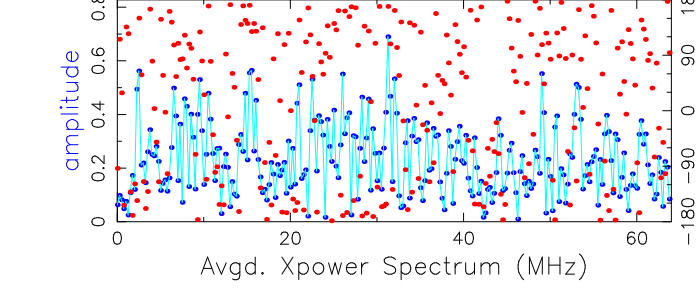
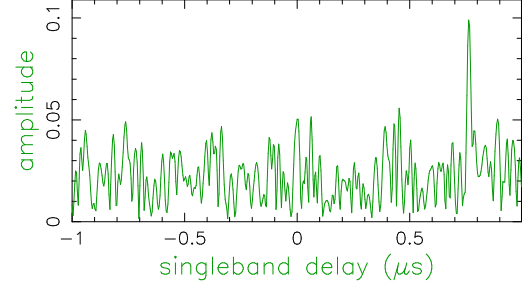
multiband delay (μ s)



Fringe quality 0

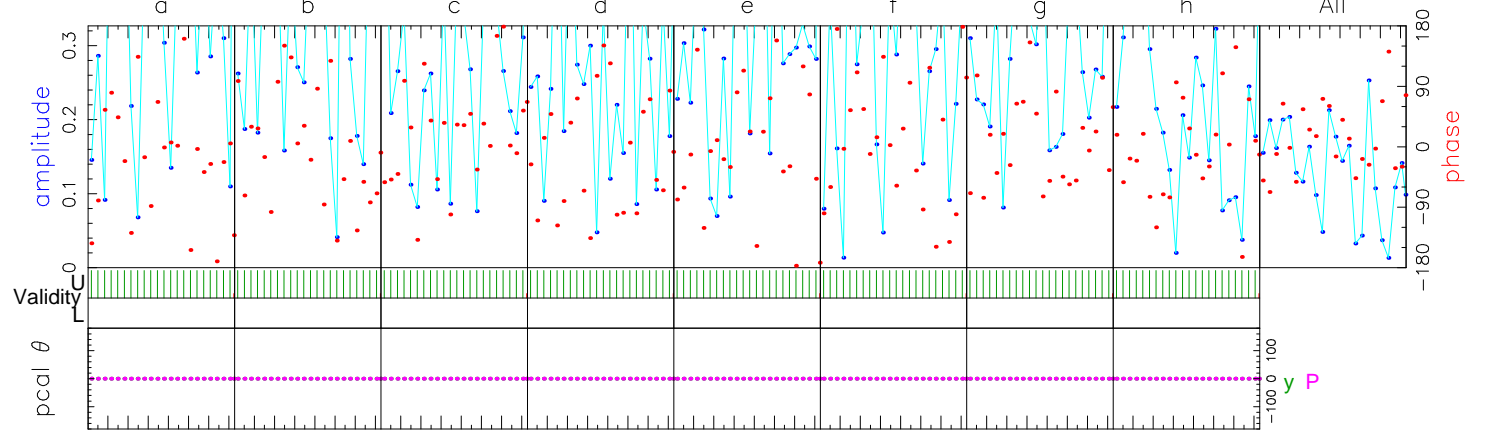
SNR 5.6
Int time 419.825
Amp 0.109
Phase 0.6
PFD 1.0e+00
Delays (us)
SBD 0.762852
MBD -0.005930
Fringe rate (Hz)
0.448077
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211a
Yr:day 16383
Start 2021:114
Stop 2021:114
FRT 040001.00
Corr/FF/build
2021:287:032807
2021:287:051209
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-10.9	-18.5	20.8	-20.5	75.5	28.7	-6.0	-11.7	Phase	0.6
	0.1	0.1	0.2	0.1	0.0	0.1	0.2	0.2	Ampl.	0.1
	331.2	437.4	364.0	456.3	259.8	381.4	64.1	202.0	Sbd box	452.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.59091447982E+03		Apriori delay (usec)		-1.59167417509E+03		Resid mbdelay (usec)		-5.92973E-03	+/- 1.9E-04
Sband delay (usec)	-1.59091132309E+03		Apriori clock (usec)		1.6531658E+00		Resid sbdelay (usec)		7.62852E-01	+/- 1.5E-03
Phase delay (usec)	-1.59167417507E+03		Apriori clockrate (us/s)		5.9999998E-07		Resid phdelay (usec)		1.95506E-08	+/- 6.6E-07
Delay rate (us/s)	-1.65228998103E+00		Apriori rate (us/s)		-1.65229518276E+00		Resid rate (us/s)		5.20173E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		8.97852478857E-06		Resid phase (deg)		0.6	+/- 20.5

ph/seg (deg) 51.7 49.2 Search (2048X32) 0.097 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.2 85.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.4 29.0 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.5 50.6 Inc. frq. avg. 0.104 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 298.2 el 38.8 pa 70.6 P: az 63.3 el 43.2 pa -75.1 u,v (fr/asec) 12822.323 536.082 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yP..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yP.W.101.1W6LVT

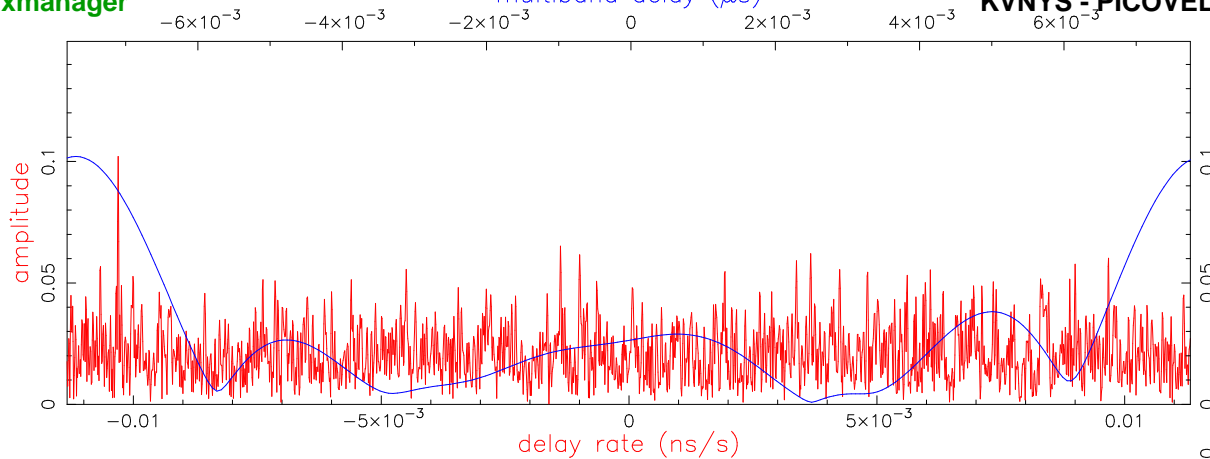
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yP

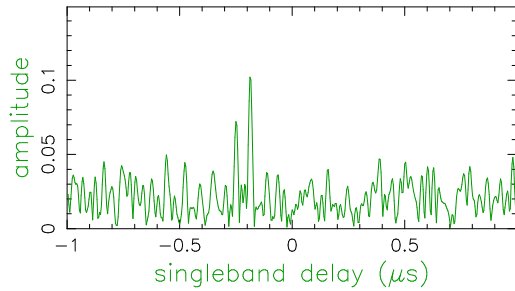
KVNYS - PICOVEL, fgroup W, pol LR

multiband delay (μ s)

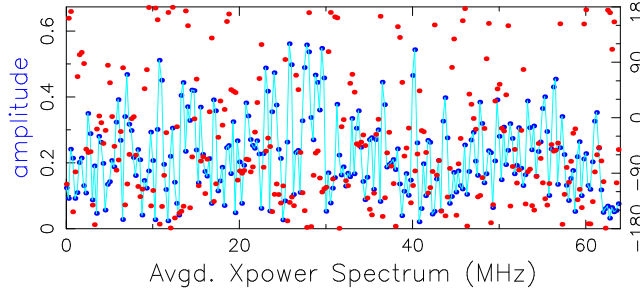


Fringe quality 0

SNR 5.8
 Int time 419.825
 Amp 0.149
 Phase 3.4
 PFD 8.1e-01
 Delays (us)
 SBD -0.185969
 MBD -0.007701
 Fringe rate (Hz)
 -0.888755
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

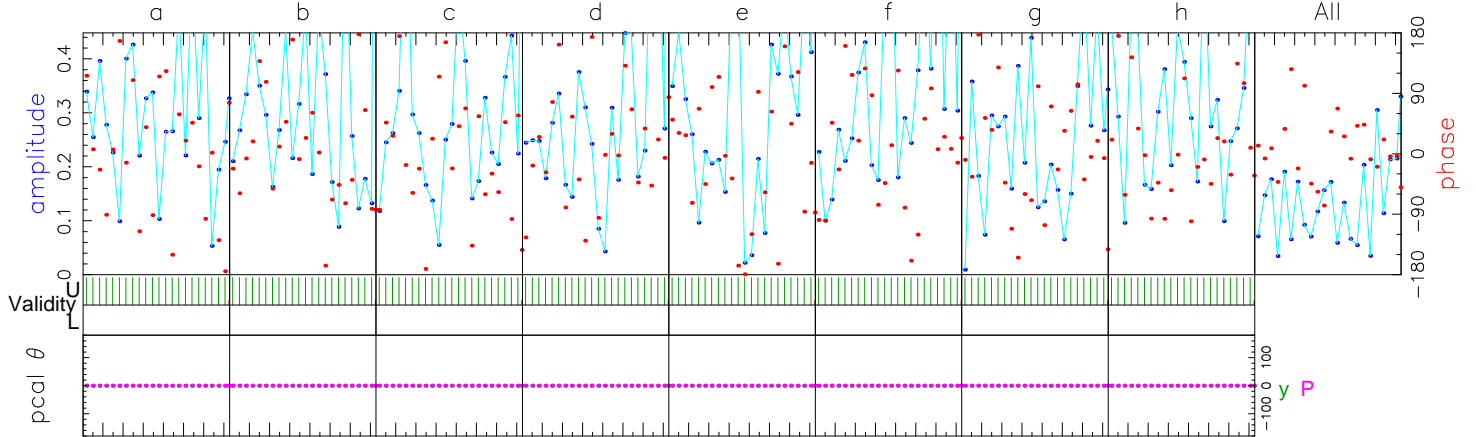


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051212
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.59185375097E+03				-1.59167417509E+03				Resid mbdelay (usec)	-7.70087E-03 +/- 1.9E-04
Sband delay (usec)	-1.59186014434E+03				1.6531658E+00				Resid sbdelay (usec)	-1.85969E-01 +/- 1.5E-03
Phase delay (usec)	-1.59167417498E+03				5.9999998E-07				Resid phdelay (usec)	-1.10943E-07 +/- 6.4E-07
Delay rate (us/s)	-1.65230550033E+00				-1.65229518276E+00				Resid rate (us/s)	-1.03176E-05 +/- 2.6E-09
Total phase (deg)		-155.9			8.97852478857E-06				Resid phase (deg)	3.4 +/- 19.8
	RMS	Theor.	Amplitude	0.149 +/- 0.026					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	48.0	47.4	Search (2048X32)	0.100					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	74.2	82.7	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	16.0	27.9	Inc. seg. avg.	0.142					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	32.8	48.8	Inc. frq. avg.	0.135					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
y: az 298.2 el 38.8 pa 70.6			P: az 63.3 el 43.2 pa -75.1						u,v (fr/asec) 12822.323 536.082	simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yP..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yP.W.117.1W6LVT

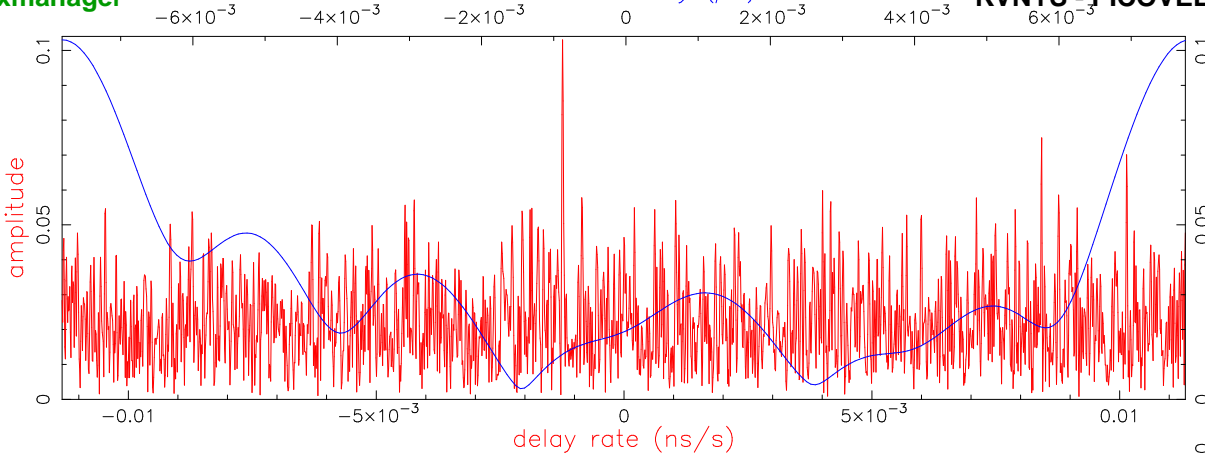
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yP

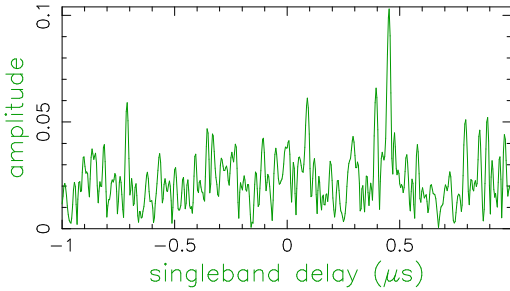
KVNYS - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

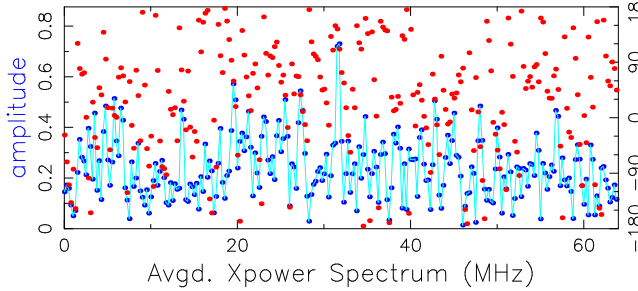


Fringe quality 0

SNR 5.8
 Int time 419.825
 Amp 0.104
 Phase -44.0
 PFD 8.1e-01
 Delays (us)
 SBD 0.452197
 MBD -0.007792
 Fringe rate (Hz)
 -0.107101
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

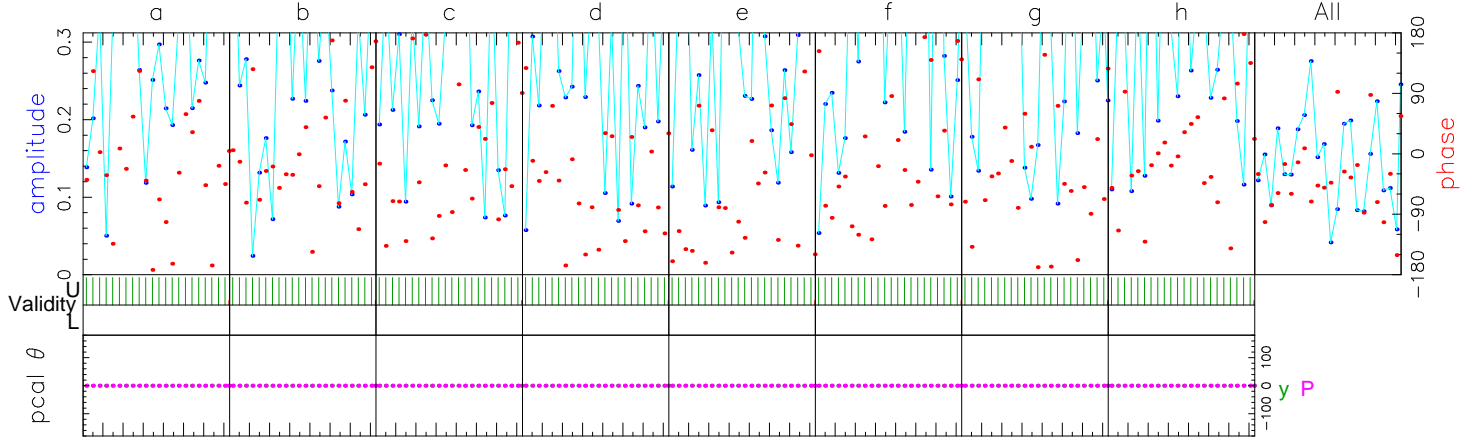


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051215
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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
	-9.5	-29.5	-70.5	-58.4	-84.2	-57.0	-57.7	5.0	Phase	-44.0
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	129.9	493.6	509.1	410.3	149.3	486.1	395.1	370.5	Sbd box	372.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.59122884161E+03		Apriori delay (usec)		-1.59167417509E+03		Resid mbdelay (usec)		-7.79151E-03	+/- 1.9E-04
Sband delay (usec)	-1.59122197809E+03		Apriori clock (usec)		1.6531658E+00		Resid sbdelay (usec)		4.52197E-01	+/- 1.5E-03
Phase delay (usec)	-1.59167417651E+03		Apriori clockrate (us/s)		5.9999998E-07		Resid phdelay (usec)		-1.41990E-06	+/- 6.4E-07
Delay rate (us/s)	-1.65229642610E+00		Apriori rate (us/s)		-1.65229518276E+00		Resid rate (us/s)		-1.24333E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		8.97852478857E-06		Resid phase (deg)		-44.0	+/- 19.8

RMS Theor. Amplitude 0.104 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 54.8 47.4 Search (2048X32) 0.099 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 68.3 82.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 33.4 27.9 Inc. seg. avg. 0.108 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 29.9 48.8 Inc. frq. avg. 0.104 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

y: az 298.2 el 38.8 pa 70.6 P: az 63.3 el 43.2 pa -75.1 u,v (fr/asec) 12822.323 536.082 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yP..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yP.W.132.1W6LVT

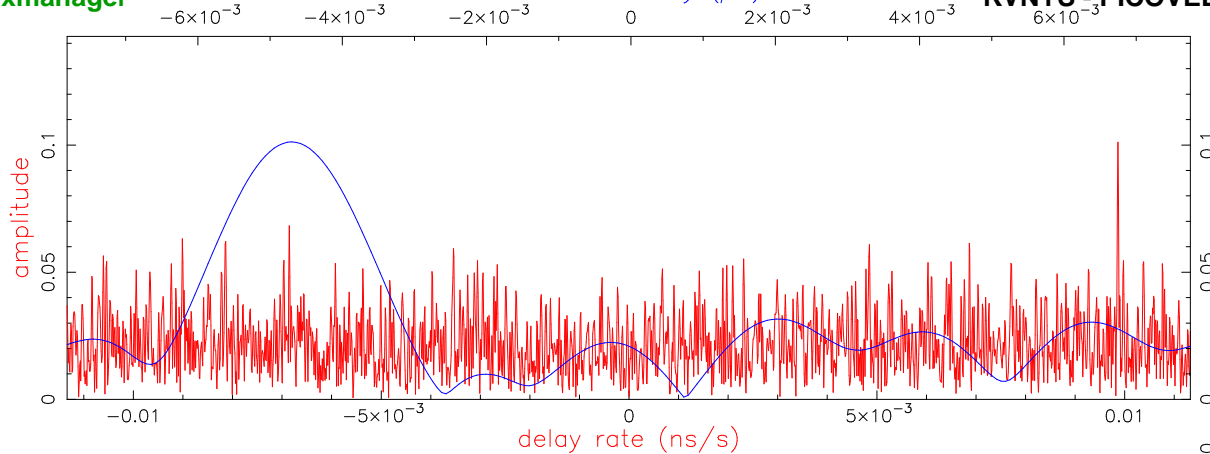
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yP

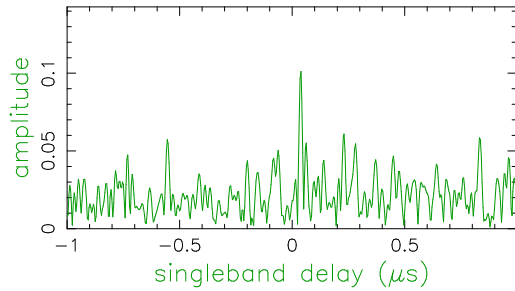
KVNYS - PICOVEL, fgroup W, pol LL

multiband delay (μ s)

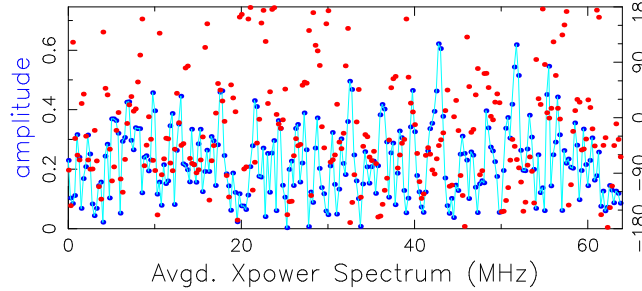


Fringe quality 0

SNR 5.7
 Int time 419.825
 Amp 0.143
 Phase 87.9
 PFD 9.2e-01
 Delays (us)
 SBD 0.037889
 MBD -0.004748
 Fringe rate (Hz)
 0.850828
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

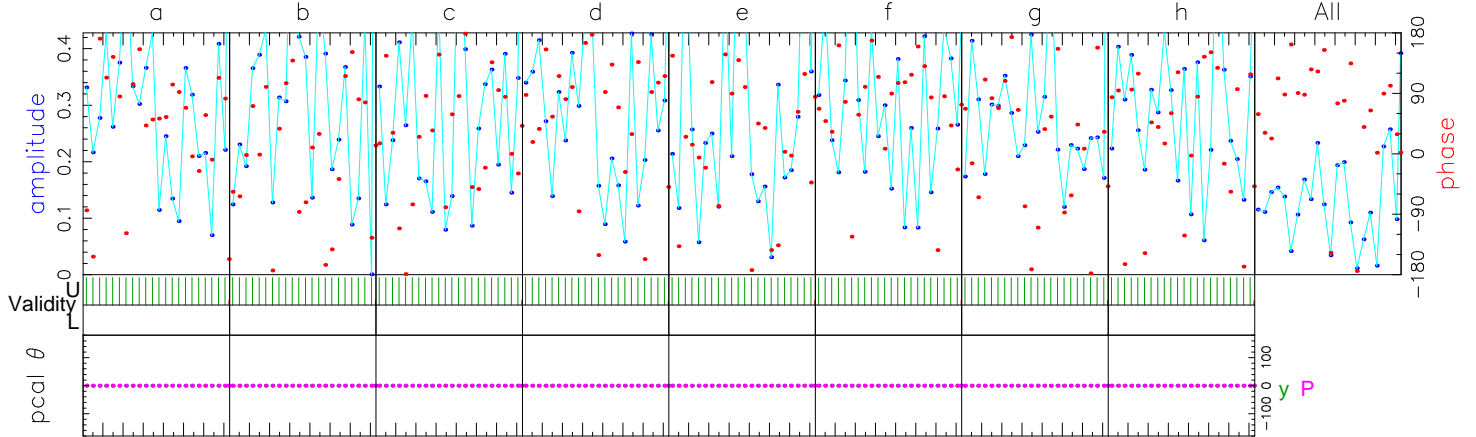


delay rate (ns/s)



Exp. c211a
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051206
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



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

Group delay (usec)(sbd)	-1.59163204814E+03	Apriori delay (usec)	-1.59167417509E+03	Resid mbdelay (usec)	-4.74804E-03	+/-	1.9E-04
Sband delay (usec)	-1.59163628609E+03	Apriori clock (usec)	1.6531658E+00	Resid sbdelay (usec)	3.78890E-02	+/-	1.5E-03
Phase delay (usec)	-1.59167417226E+03	Apriori clockrate (us/s)	5.9999998E-07	Resid phdelay (usec)	2.83533E-06	+/-	6.5E-07
Delay rate (us/s)	-1.65228530549E+00	Apriori rate (us/s)	-1.65229518276E+00	Resid rate (us/s)	9.87727E-06	+/-	2.7E-09
Total phase (deg)	-71.4	Apriori accel (us/s/s)	8.97852478857E-06	Resid phase (deg)	87.9	+/-	20.0

ph/seg (deg)	53.8	Theor.	48.0	Amplitude	0.143 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	73.8	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	19.2	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	32.3	Inc. seg. avg.	0.133	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.130	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00	

y: az 298.2 el 38.8 pa 70.6 P: az 63.3 el 43.2 pa -75.1 u,v (fr/asec) 12822.323 536.082 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yP..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yP.W.86.1W6LVT

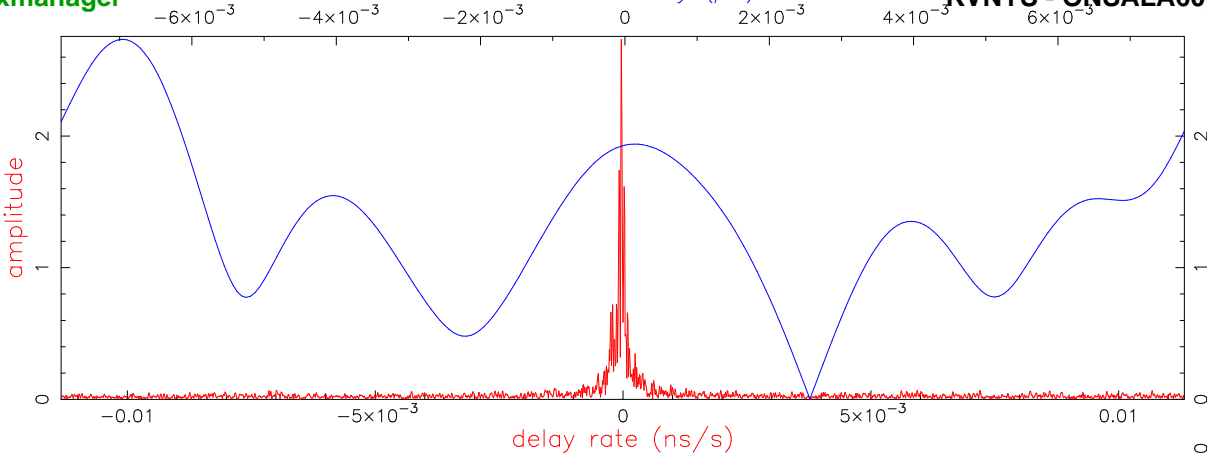
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yX

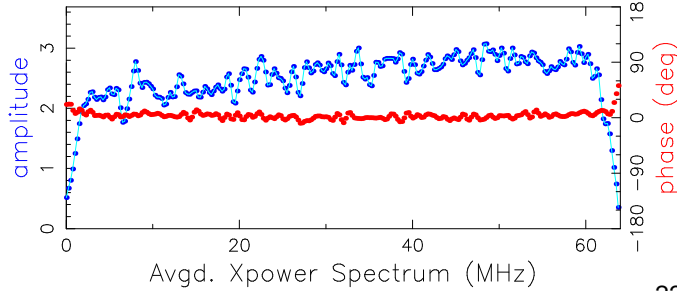
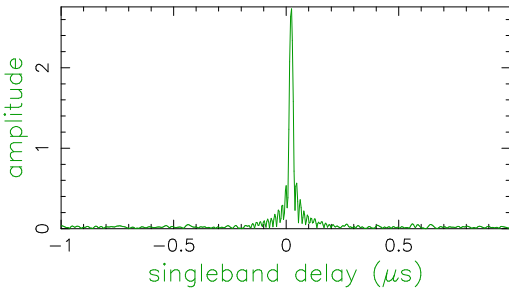
KVNYS - ONSALA60, fgroup W, pol RR

multiband delay (μ s)



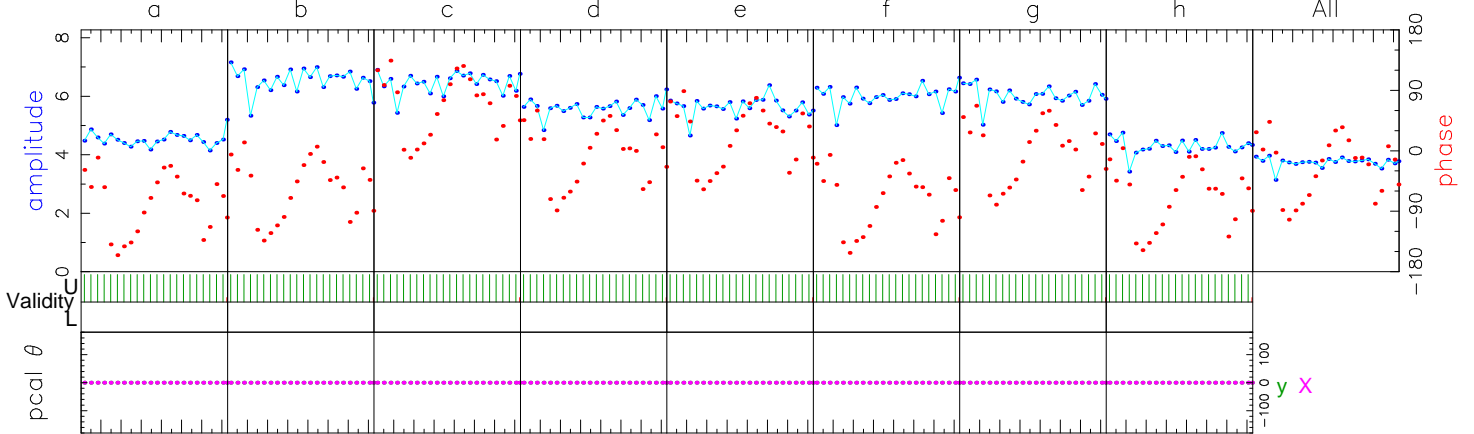
Fringe quality 2

SNR 154.5
 Int time 419.794
 Amp 2.757
 Phase -20.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.022249
 MBD -0.006996
 Fringe rate (Hz)
 -0.002910
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051209
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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
	-75.2	-52.3	71.5	-3.7	25.2	-67.4	2.4	-65.2		Phase
	3.3	4.8	4.7	4.1	4.1	4.4	4.4	3.1		Ampl.
	264.2	263.1	262.7	262.0	261.9	262.3	262.3	262.5		Sbd box
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used
y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	-4.91747204757E+03		Apriori delay (usec)		-4.91749630130E+03		Resid mbdelay (usec)		-6.99628E-03	+/- 7.0E-06
Sband delay (usec)	-4.91747405180E+03		Apriori clock (usec)		-5.5683224E+01		Resid sbdelay (usec)		2.22495E-02	+/- 5.6E-05
Phase delay (usec)	-4.91749630196E+03		Apriori clockrate (us/s)		-5.2800001E-07		Resid phdelay (usec)		-6.68681E-07	+/- 2.4E-08
Delay rate (us/s)	-1.29399051823E+00		Apriori rate (us/s)		-1.29399048445E+00		Resid rate (us/s)		-3.37869E-08	+/- 9.9E-11
Total phase (deg)			Apriori accel (us/s/s)		8.13034275316E-06		Resid phase (deg)		-20.7	+/- 0.7

ph/seg (deg) 43.9 1.8 Theor. Amplitude 2.757 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.3 3.1 Search (2048X32) 2.713 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 57.1 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.5 1.8 Inc. seg. avg. 3.742 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 y: az 298.2 el 38.8 pa 70.6 X: az 96.9 el 57.3 pa -46.2 u,v (fr/asec) 10041.477 -1061.051 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yX..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yX.W.102.1W6LVT simultaneous interpolator

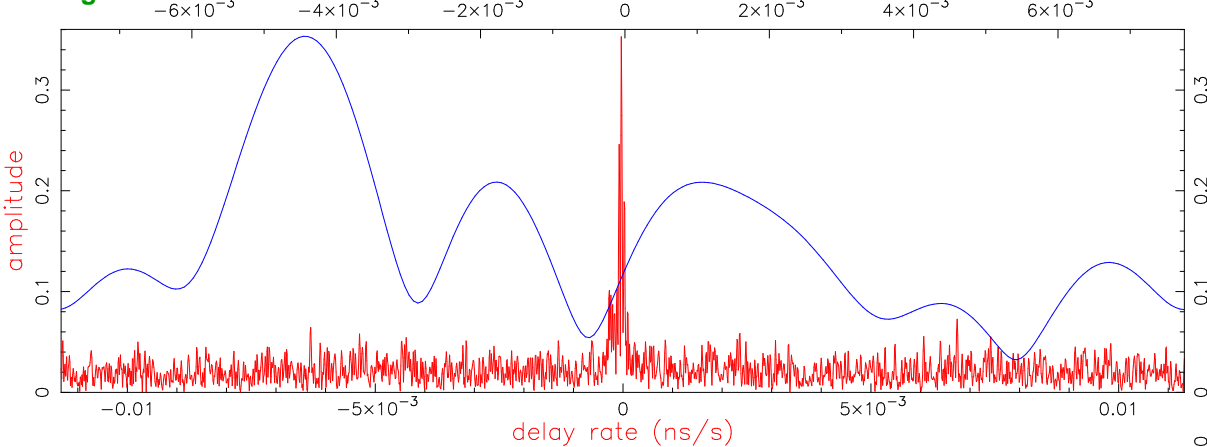
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yX

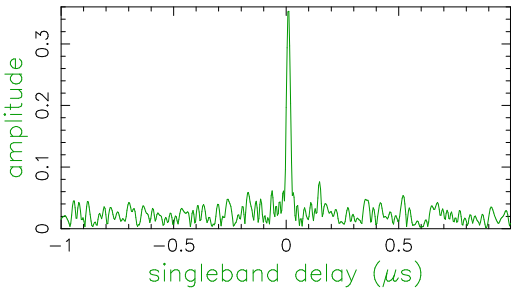
KVNYS - ONSALA60, fgroup W, pol LR

multiband delay (μ s)

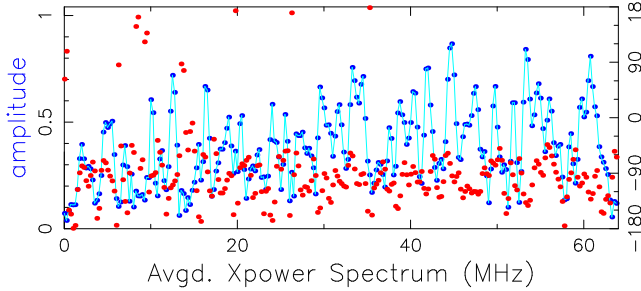


Fringe quality 7

SNR 20.2
 Int time 419.794
 Amp 0.360
 Phase 60.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.009822
 MBD -0.004482
 Fringe rate (Hz)
 -0.002974
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

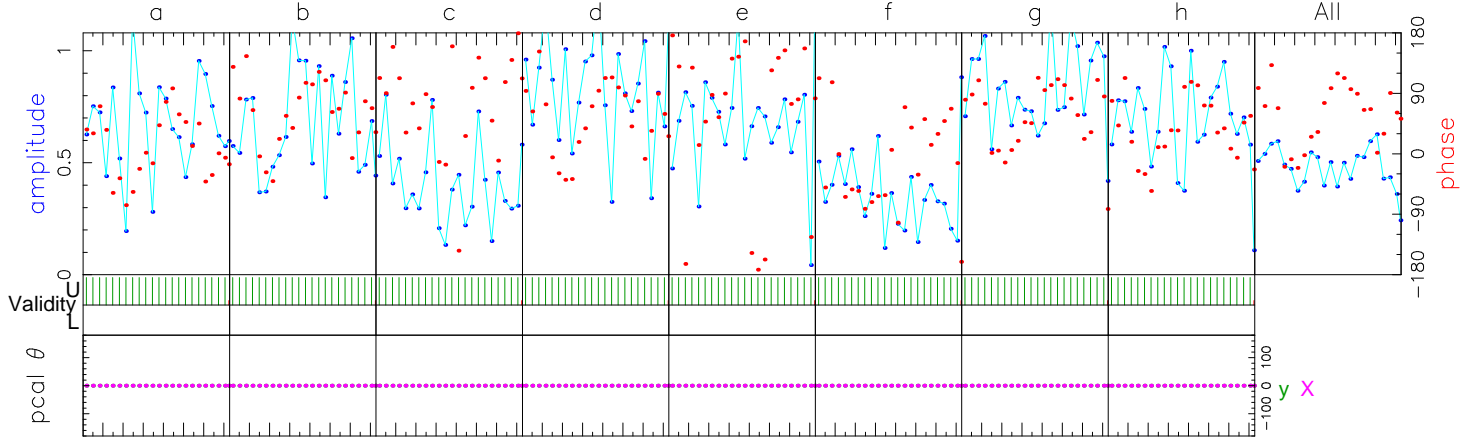


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051212
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.91748515789E+03									
Sband delay (usec)	-4.91748647905E+03									
Phase delay (usec)	-4.91749629934E+03									
Delay rate (us/s)	-1.29399051897E+00									
Total phase (deg)			-81.1							
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)									60.6	+/- 5.4E-05
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) 45.4 13.6 Search (2048X32) 0.351 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.7 23.8 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 50.6 8.0 Inc. seg. avg. 0.475 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.1 14.0 Inc. frq. avg. 0.438 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 298.2 el 38.8 pa 70.6 X: az 96.9 el 57.3 pa -46.2 u,v (fr/asec) 10041.477 -1061.051 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yX..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yX.W.118.1W6LVT

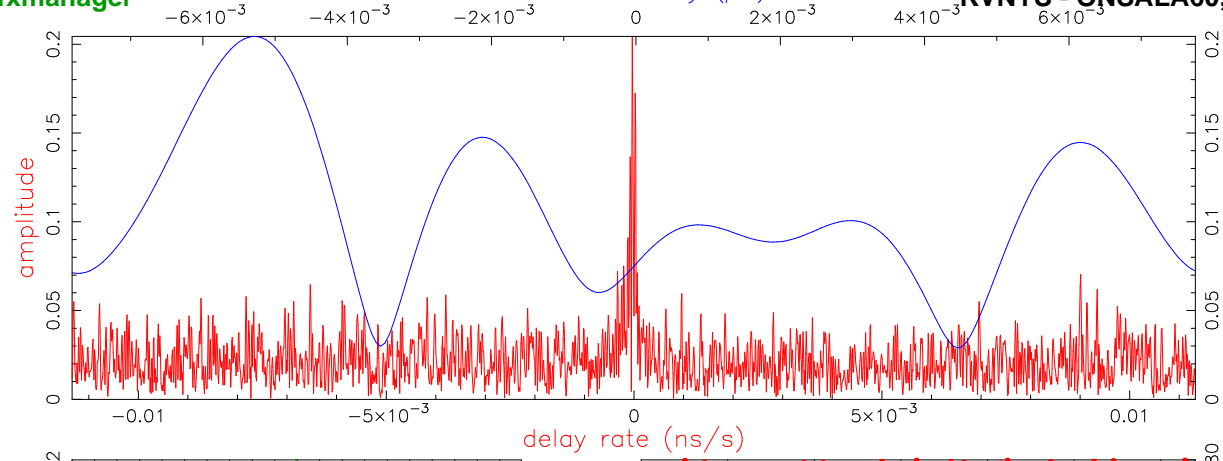
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yX

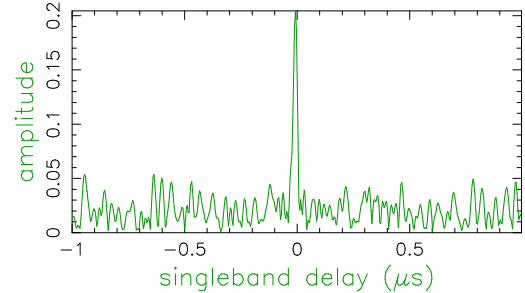
KVNYS - ONSALA60, fgroup W, pol RL

multiband delay (μ s)

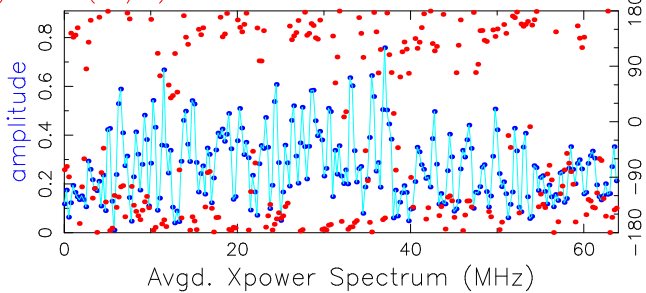


Fringe quality 9

SNR 11.5
 Int time 419.794
 Amp 0.204
 Phase 153.6
 PFD 1.1e-21
 Delays (us)
 SBD -0.007849
 MBD -0.005288
 Fringe rate (Hz)
 -0.002932
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

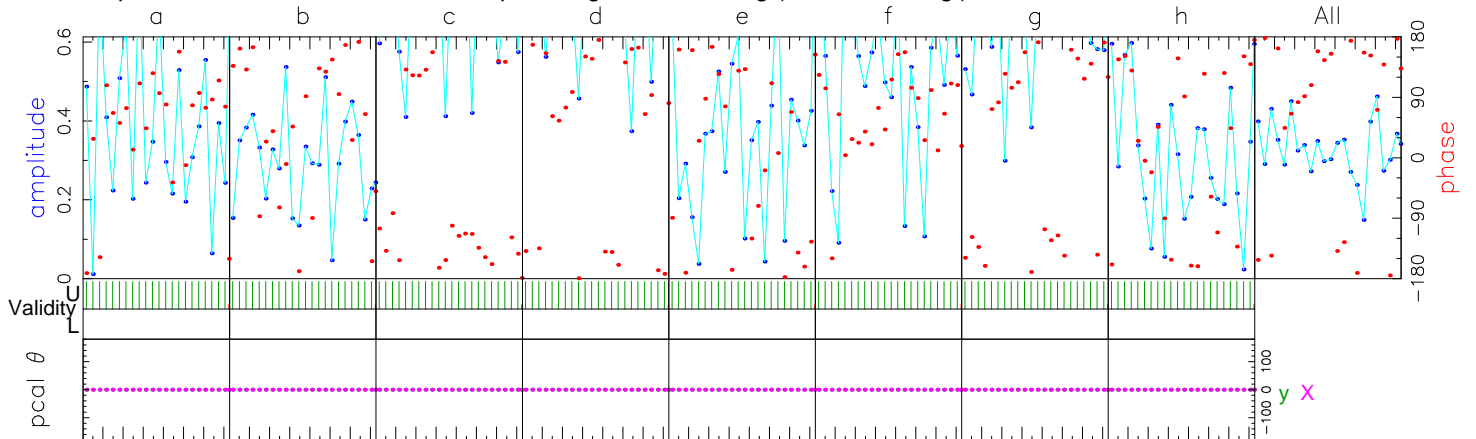


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051216
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



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

Group delay (usec)(sbd)	-4.91750158914E+03	Apriori delay (usec)	-4.91749630130E+03	Resid mbdelay (usec)	-5.28784E-03	+/-	9.5E-05
Sband delay (usec)	-4.91750415055E+03	Apriori clock (usec)	-5.5683224E+01	Resid sbdelay (usec)	-7.84925E-03	+/-	7.5E-04
Phase delay (usec)	-4.91749629634E+03	Apriori clockrate (us/s)	-5.2800001E-07	Resid phdelay (usec)	4.95312E-06	+/-	3.2E-07
Delay rate (us/s)	-1.29399051848E+00	Apriori rate (us/s)	-1.29399048445E+00	Resid rate (us/s)	-3.40377E-08	+/-	1.3E-09
Total phase (deg)		Apriori accel (us/s/s)	8.13034275316E-06	Resid phase (deg)	153.6	+/-	10.0

ph/seg (deg)	51.8	Theor.	24.0	Amplitude	0.204 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.5		41.9	Search (2048X32)	0.203	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	47.6		14.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	82.7		24.7	Inc. seg. avg.	0.303	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.275	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

y: az 298.2 el 38.8 pa 70.6 X: az 96.9 el 57.3 pa -46.2 u,v (fr/asec) 10041.477 -1061.051 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yX..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yX.W.133.1W6LVT

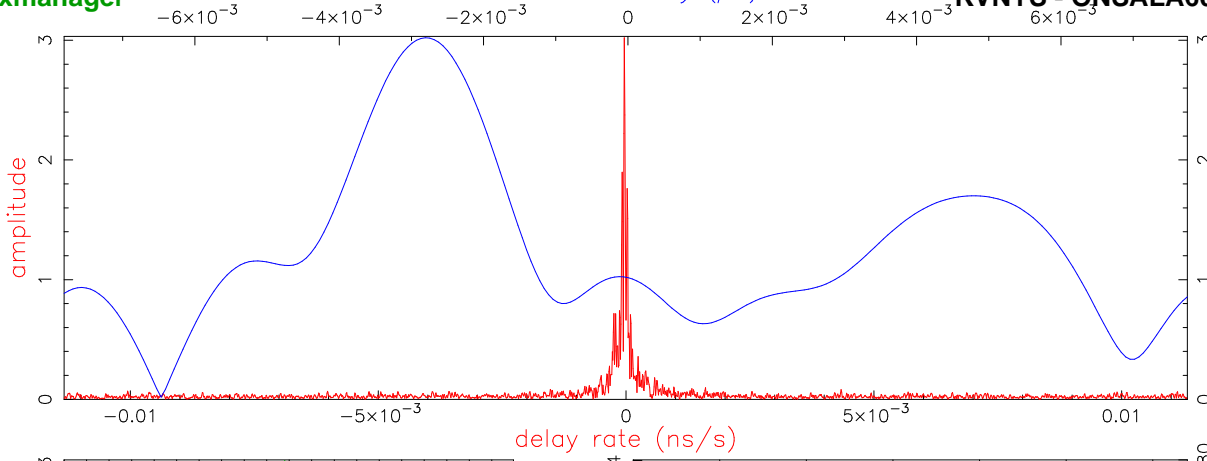
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yX

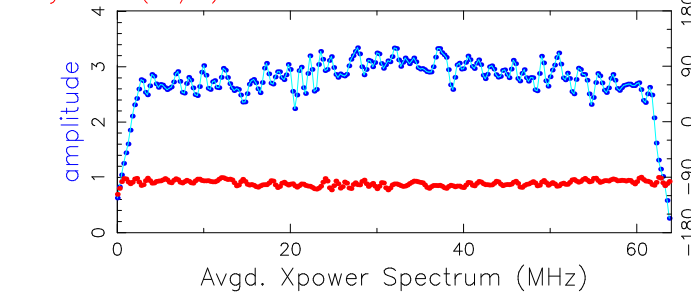
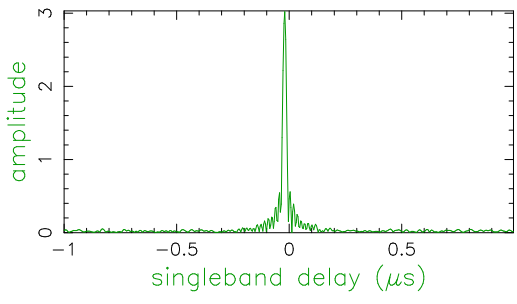
KVNYS - ONSALA60, fgroup W, pol LL

multiband delay (μ s)



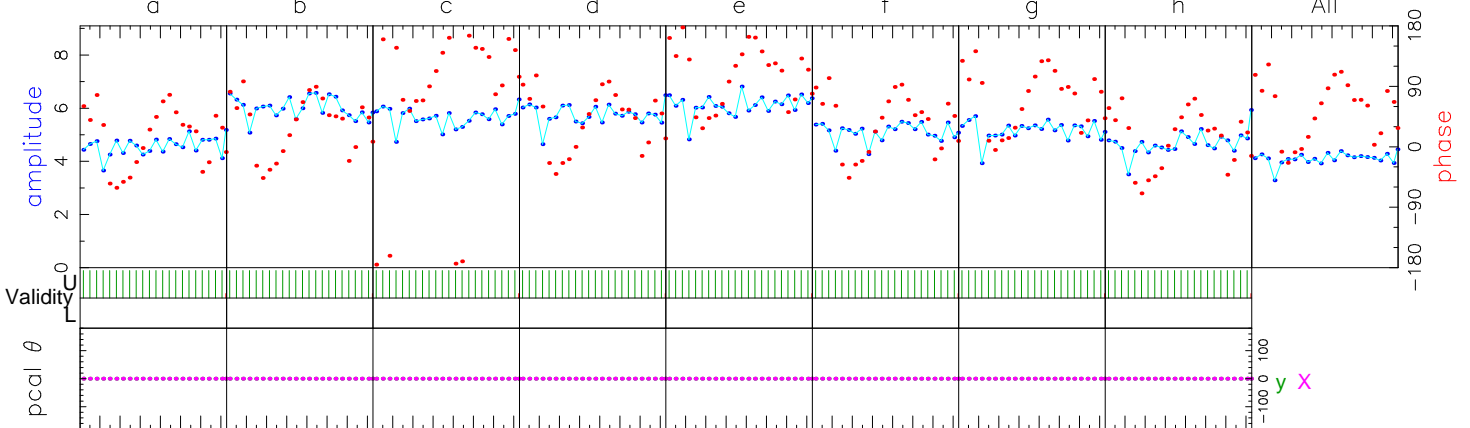
Fringe quality 3

SNR 169.9
 Int time 419.794
 Amp 3.032
 Phase 58.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.020338
 MBD -0.002819
 Fringe rate (Hz)
 -0.002920
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051206
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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
	17.3	35.8	132.7	43.0	109.9	39.2	76.5	14.8	Phase	58.2
	3.3	4.5	4.1	4.2	4.4	3.7	3.8	3.5	Ampl.	3.9
	253.7	251.7	251.5	251.0	251.4	251.1	251.2	251.6	Sbd box	251.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.91751474573E+03	Apriori delay (usec)	-4.91749630130E+03	Resid mbdelay (usec)	-2.81944E-03	+/-	6.4E-06
Sband delay (usec)	-4.91751663980E+03	Apriori clock (usec)	-5.5683224E+01	Resid sbdelay (usec)	-2.03385E-02	+/-	5.1E-05
Phase delay (usec)	-4.91749629942E+03	Apriori clockrate (us/s)	-5.2800001E-07	Resid phdelay (usec)	1.87831E-06	+/-	2.2E-08
Delay rate (us/s)	-1.29399051835E+00	Apriori rate (us/s)	-1.29399048445E+00	Resid rate (us/s)	-3.39002E-08	+/-	9.0E-11
Total phase (deg)	-83.5	Apriori accel (us/s/s)	8.13034275316E-06	Resid phase (deg)	58.2	+/-	0.7

ph/seg (deg)	43.4	1.6	Search (2048X32)	2.990	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	35.8	2.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	46.9	1.0	Inc. seg. avg.	4.094	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.6	1.7	Inc. frq. avg.	3.937	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

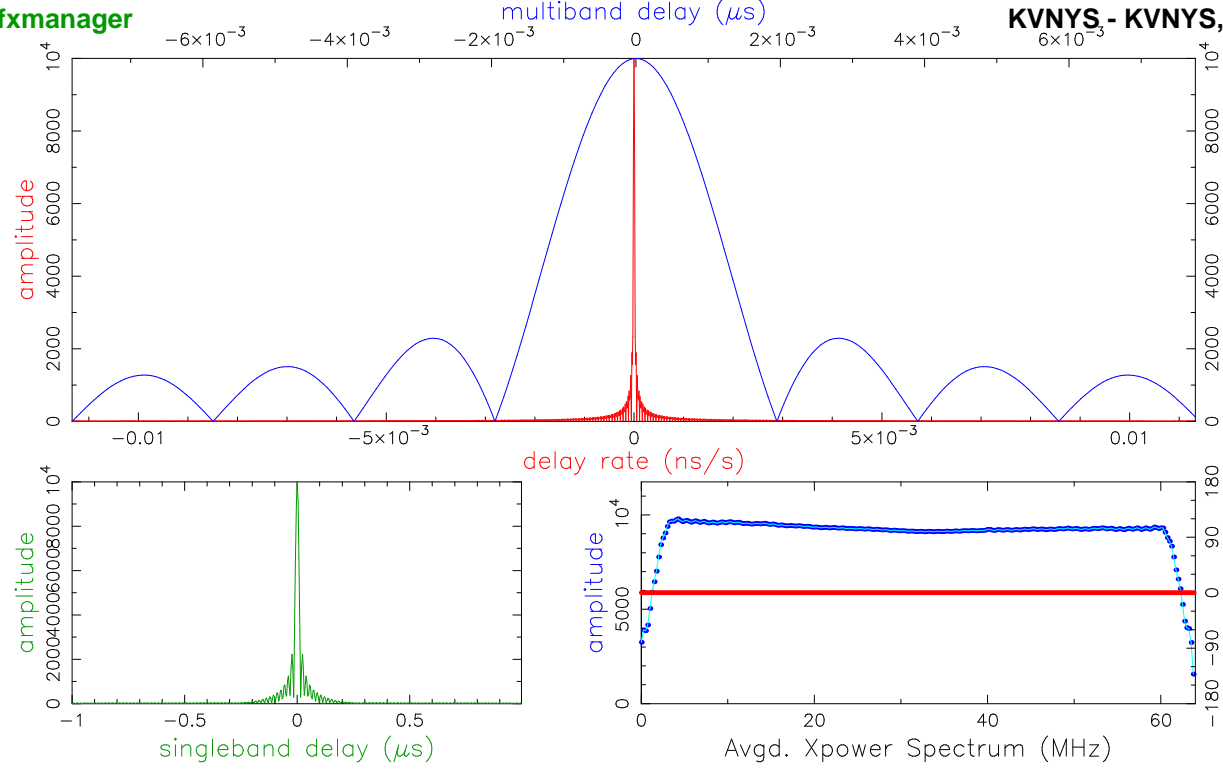
y: az 298.2 el 38.8 pa 70.6 X: az 96.9 el 57.3 pa -46.2 u,v (fr/asec) 10041.477 -1061.051 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yX..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yX.W.84.1W6LVT

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yy

KVNYS - KVNYS, fgroup W, pol RR

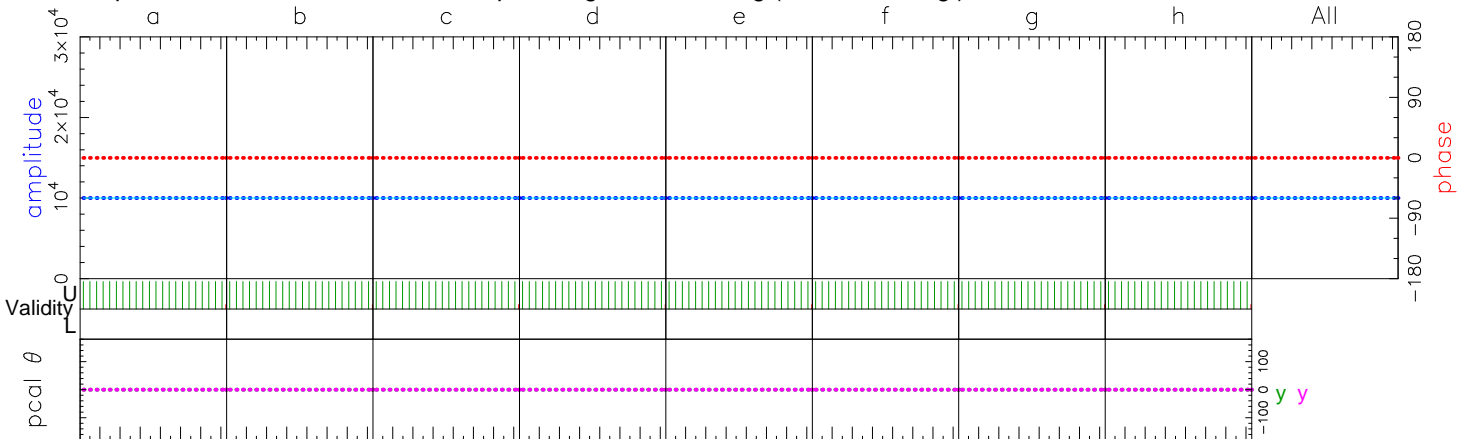


Fringe quality 9

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

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051209
 2021:252:122852
 RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

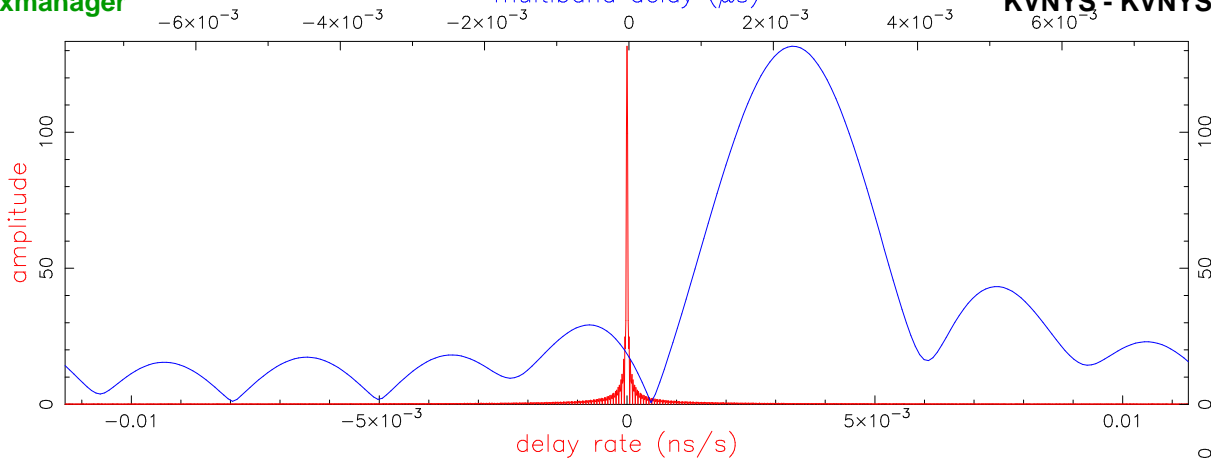
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
y	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
y	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
y	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+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	0.00000E+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	0.00000E+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	0.00000E+00	+/- 2.7E-14
Total phase (deg)			0.0						0.0	+/- 0.0

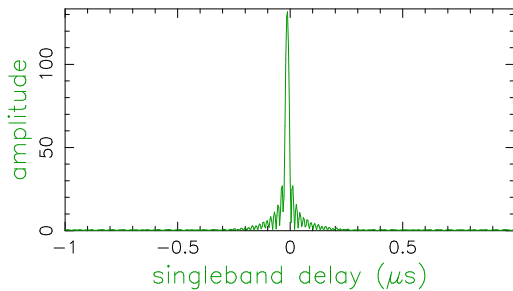
ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (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
 y: az 298.2 el 38.8 pa 70.6 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/No0166/yy..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yy.W.100.1W6LVT simultaneous interpolator

multiband delay (μ s)

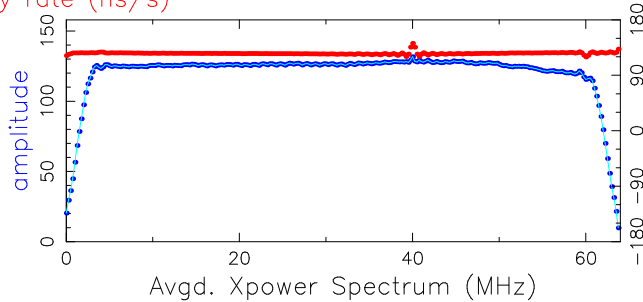


Fringe quality 9

SNR 7473.9
Int time 419.840
Amp 133.385
Phase -52.6
PFD 0.0e+00
Delays (us)
SBD -0.013202
MBD 0.002274
Fringe rate (Hz)
-0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

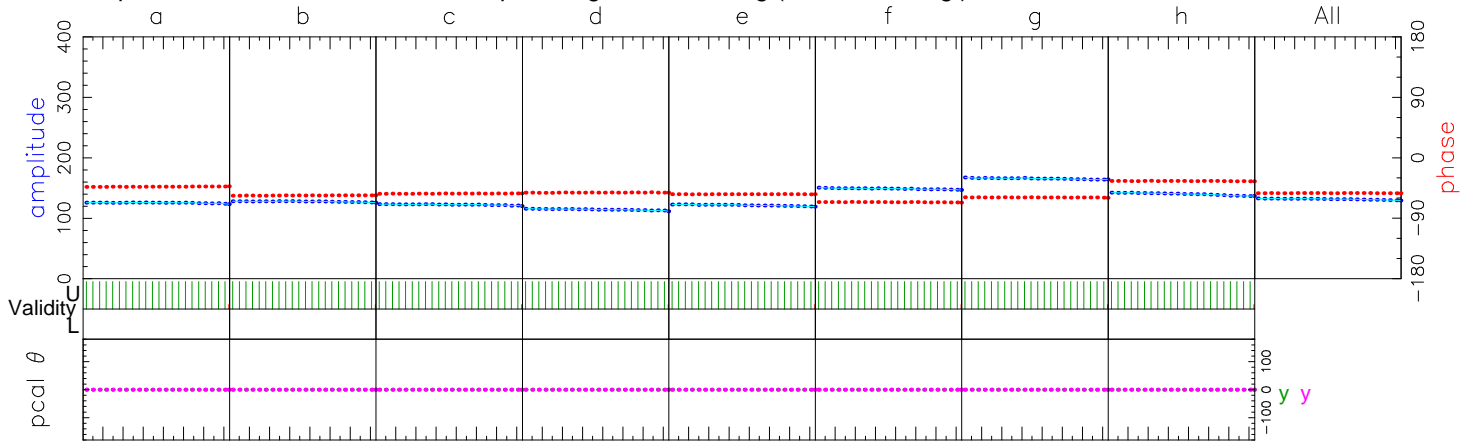


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 040001.00
Stop 040700.84
FRT 040331.00
Corr/FF/build
2021:287:032807
2021:287:051212
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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

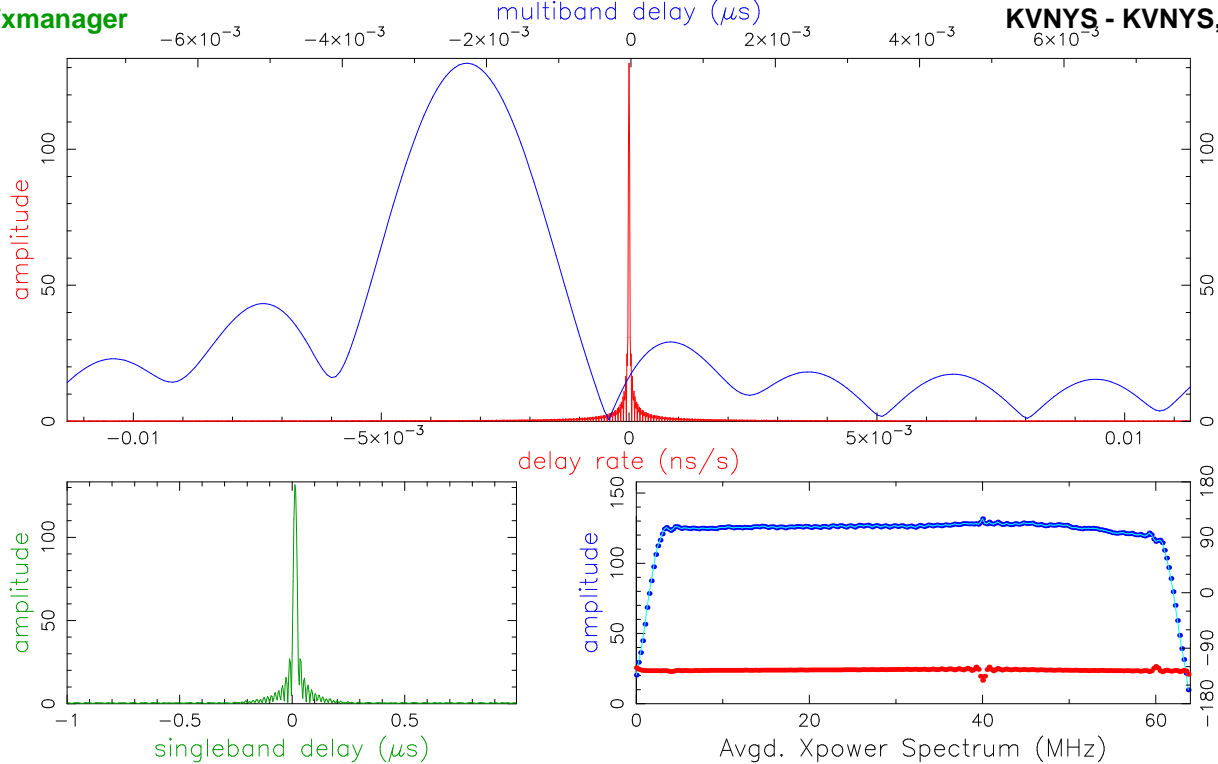


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-43.0	-56.1	-53.3	-51.8	-54.2	-66.0	-59.0	-34.6	Phase	-52.6
	125.6	127.7	122.6	114.5	121.6	149.0	165.8	140.1	Ampl.	133.4
	253.5	253.5	253.6	253.6	253.5	253.6	253.7	254.0	Sbd box	253.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.33507500000E-02					0.00000000000E+00			Resid mbdelay (usec)	2.27425E-03 +/- 1.5E-07
Sband delay (usec)	-1.32017500000E-02					0.0000000E+00			Resid sbdelay (usec)	-1.32017E-02 +/- 1.2E-06
Phase delay (usec)	-1.69547871052E-06					0.0000000E+00			Resid phdelay (usec)	-1.69548E-06 +/- 4.9E-10
Delay rate (us/s)	-1.06283642938E-11					0.00000000000E+00			Resid rate (us/s)	-1.06284E-11 +/- 2.0E-12
Total phase (deg)			-52.6			0.00000000000E+00			Resid phase (deg)	-52.6 +/- 0.0

	RMS	Theor.	Amplitude	133.385 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.1	0.0	Search (2048X32)	130.022	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	1.5	0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	10.4	0.0	Inc. seg. avg.	131.606	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.0	0.0	Inc. frq. avg.	133.358	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

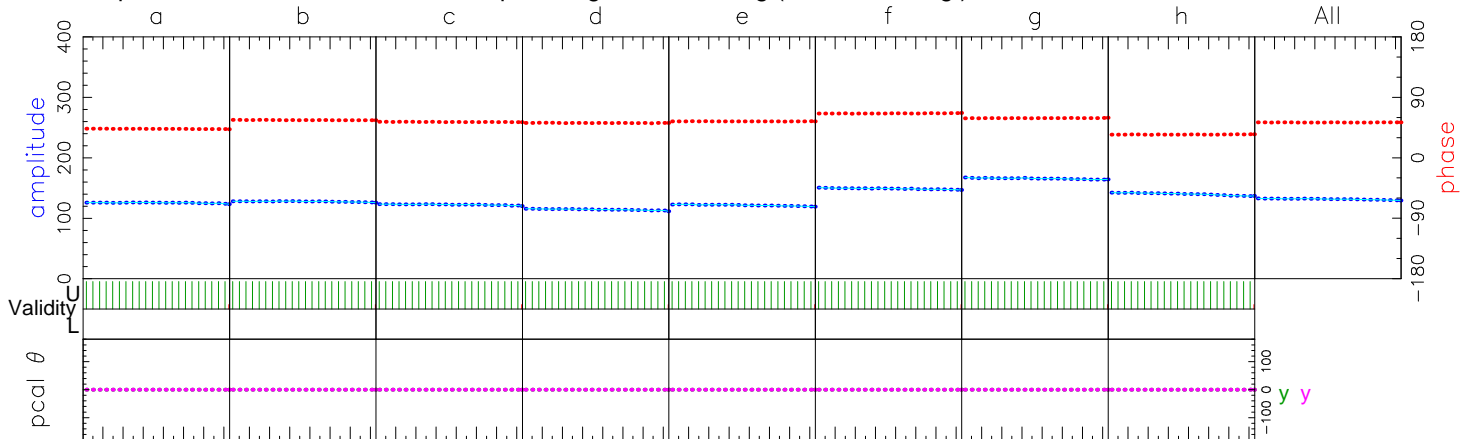
y: az 298.2 el 38.8 pa 70.6 y: az 298.2 el 38.8 pa 70.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yy..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yy.W.115.1W6LVT



Fringe quality 9
SNR 7473.9
Int time 419.840
Amp 133.385
Phase 52.6
PFD 0.0e+00
Delays (us)
SBD 0.013202
MBD -0.002274
Fringe rate (Hz) 0.000001
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 040001.00
2021:287:032807
2021:287:051215
2021:252:122852
RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

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



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

Group delay (usec)(sbd)	1.33507500000E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.27425E-03	+/-	1.5E-07
Sband delay (usec)	1.32017500000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.32017E-02	+/-	1.2E-06
Phase delay (usec)	1.69547871055E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.69548E-06	+/-	4.9E-10
Delay rate (us/s)	1.06283642938E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.06284E-11	+/-	2.0E-12
Total phase (deg)	52.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	52.6	+/-	0.0

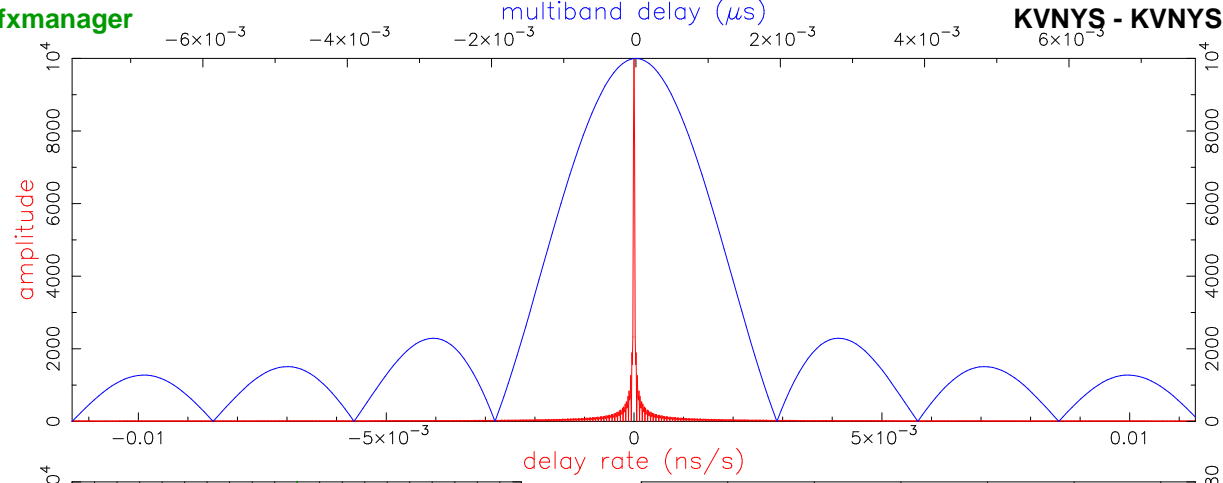
ph/seg (deg)	0.1	0.0	Search (2048X32)	130.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	1.5	0.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	10.4	0.0	Inc. seg. avg.	131.606	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	12.0	0.0	Inc. frq. avg.	133.358	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

Mk4/DiFX fourfit 3.21 rev 2937

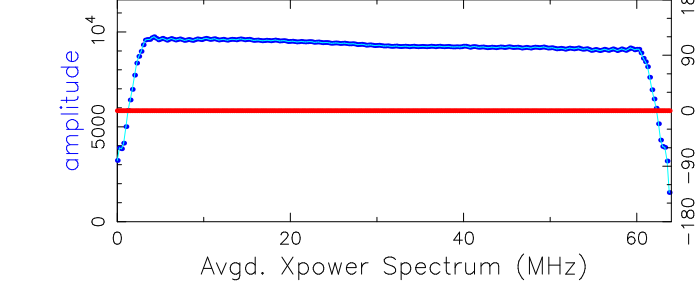
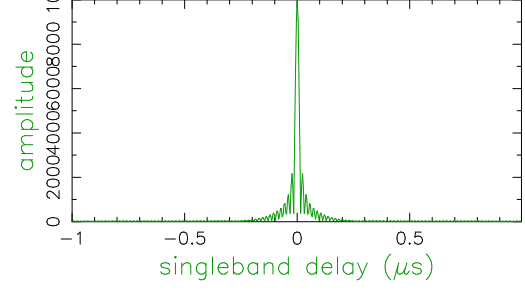
fxmanager

BLLAC.1W6LVT, No0166, yy

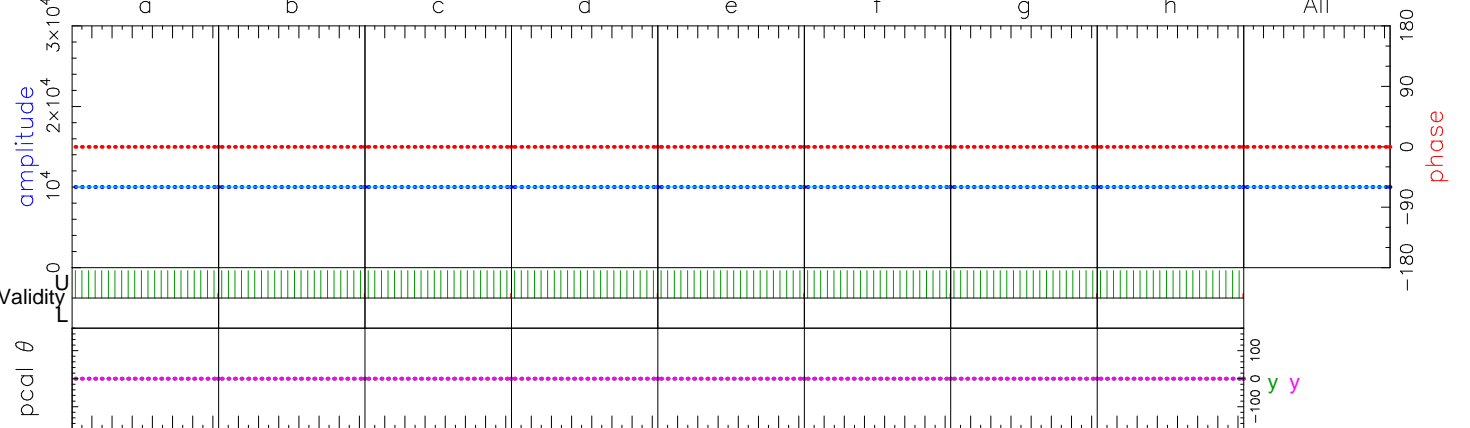
KVNY5 - KVNY5, fgroup W, pol LL



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 040001.00
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051206
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

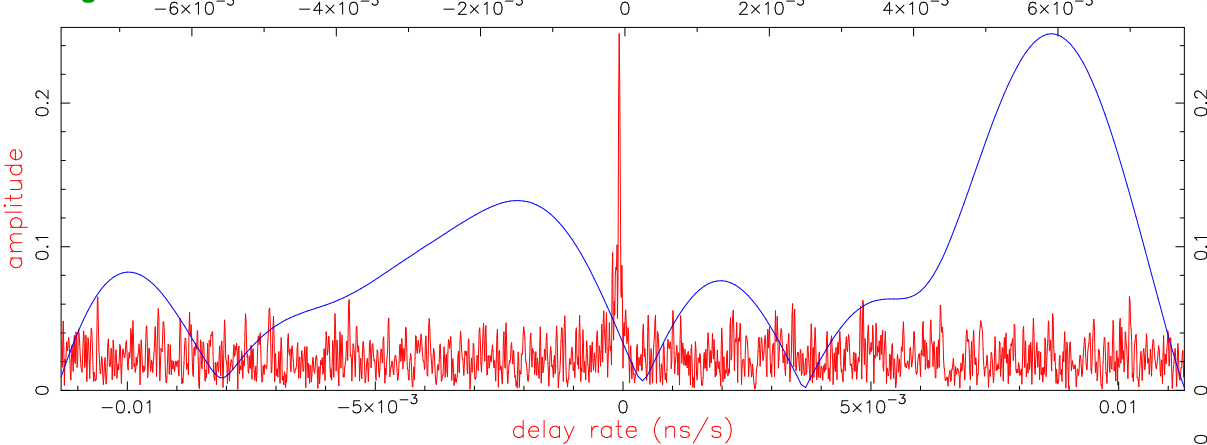


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



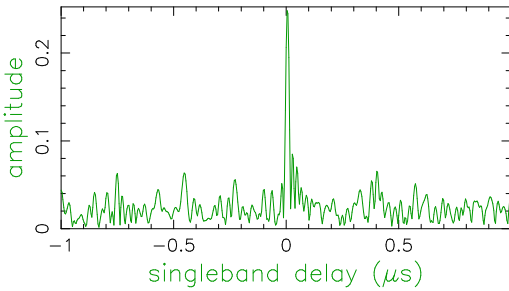
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Tracks	
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		+/- 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		+/- 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		+/- 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		+/- 2.7E-14
Total phase (deg)			0.0							+/- 0.0
	RMS	Theor.	Amplitude	10000.000 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (2048X32)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	0.0	0.0	Inc. frq. avg.	10000.000	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
y: az 298.2 el 38.8 pa 70.6			y: az 298.2 el 38.8 pa 70.6		u,v (fr/asec) 0.000 0.000					simultaneous interpolator

multiband delay (μ s)

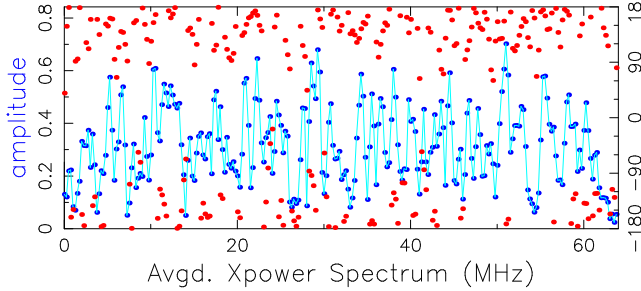


Fringe quality 9

SNR 13.9
 Int time 405.575
 Amp 0.253
 Phase 162.2
 PFD 3.0e-35
 Delays (us)
 SBD 0.005581
 MBD 0.005930
 Fringe rate (Hz)
 -0.006402
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

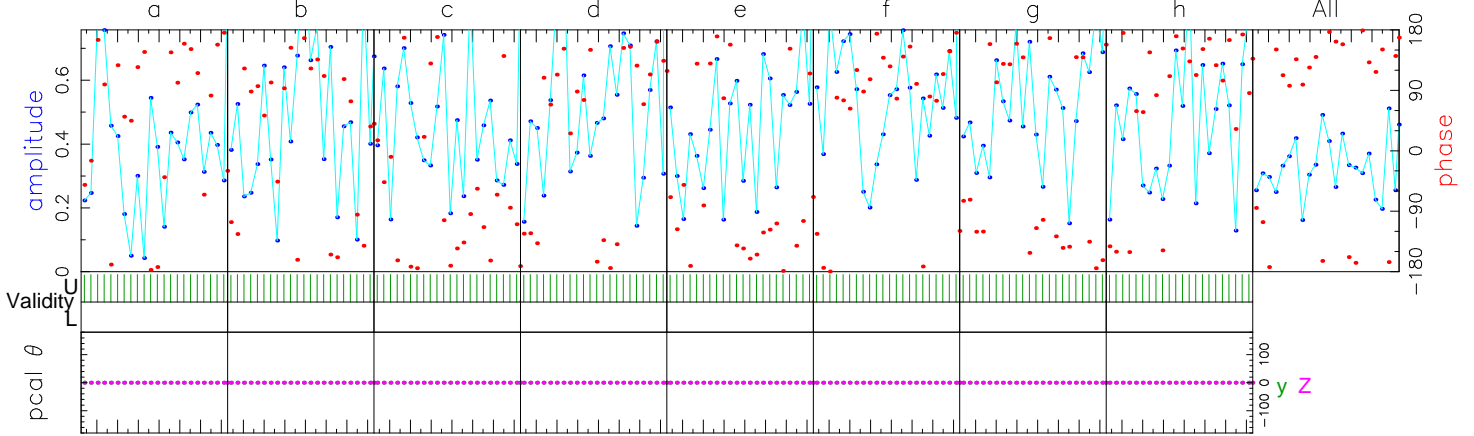


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040014.31
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051210
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	142.5	144.5	-131.0	148.6	-154.6	126.8	-172.4	142.0	Phase	162.2
	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	Ampl.	0.3
	259.9	258.0	258.5	257.9	257.5	257.7	257.9	258.7	Sbd box	258.4
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-5.84335030614E+03	Apriori delay (usec)	-5.84335623604E+03	Resid mbdelay (usec)	5.92990E-03	+/-	7.8E-05
Sband delay (usec)	-5.84335065529E+03	Apriori clock (usec)	1.4229012E+08	Resid sbdelay (usec)	5.58075E-03	+/-	6.2E-04
Phase delay (usec)	-5.84335623081E+03	Apriori clockrate (us/s)	-1.6000000E-08	Resid phdelay (usec)	5.22981E-06	+/-	2.7E-07
Delay rate (us/s)	-1.16371777658E+00	Apriori rate (us/s)	-1.16371770226E+00	Resid rate (us/s)	-7.43263E-08	+/-	1.1E-09
Total phase (deg)	100.1	Apriori accel (us/s/s)	1.14109796400E-05	Resid phase (deg)	162.2	+/-	8.2

ph/seg (deg)	44.6	Theor.	19.7	Search (2048X32)	0.243	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	45.0		34.5	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	39.8		11.6	Inc. seg. avg.	0.307	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	26.2		20.3	Inc. frq. avg.	0.289	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

y: az 298.2 el 38.8 pa 70.6 Z: az 115.4 el 62.7 pa -37.4 u,v (fr/asec) 9037.189 -981.673 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yZ..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yZ.W.107.1W6LVT

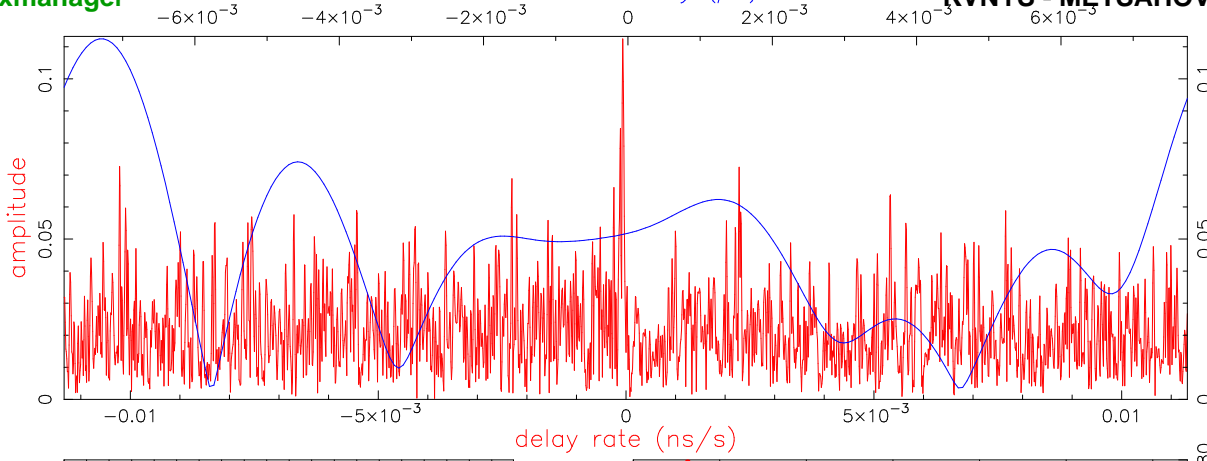
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

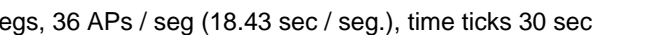
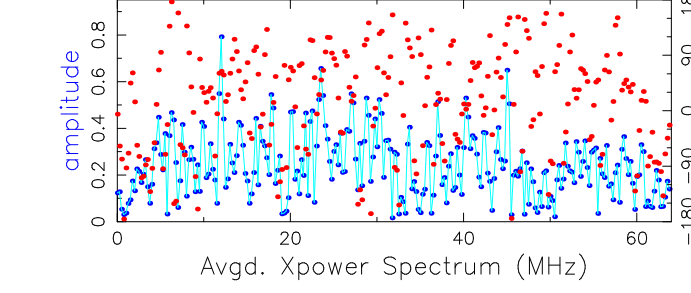
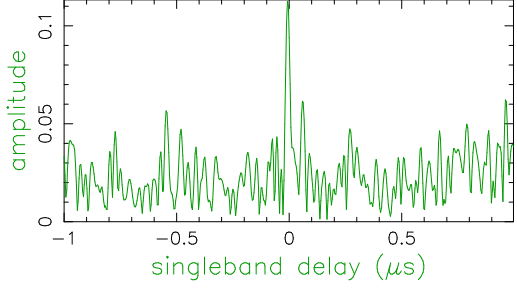
BLLAC.1W6LVT, No0166, yZ

KVNYS - METSAHOV, fgroup W, pol LR

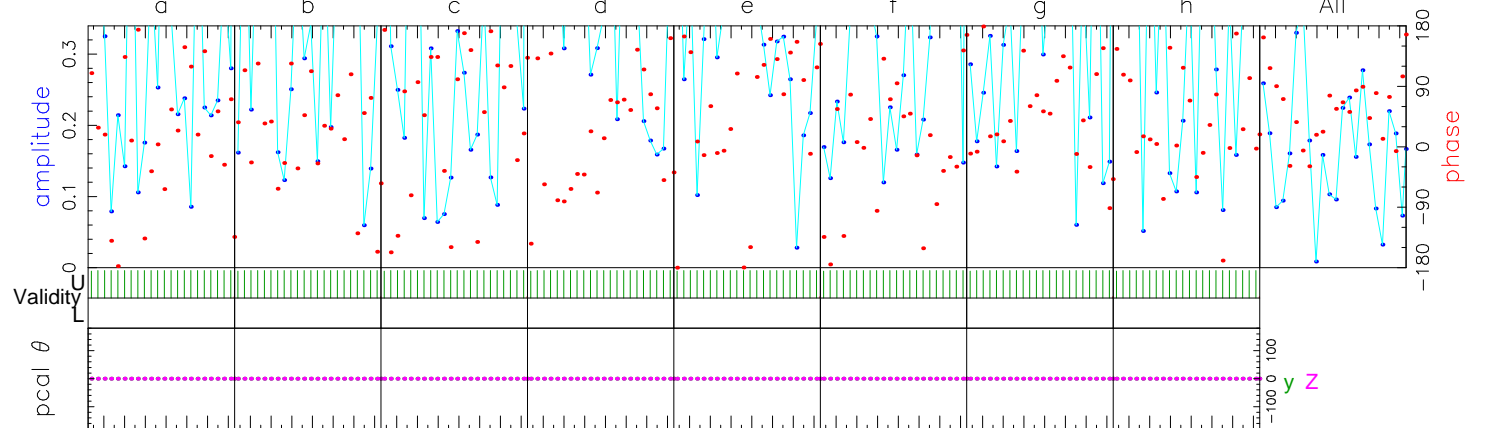
multiband delay (μ s)



Fringe quality 0
 SNR 6.2
 Int time 405.575
 Amp 0.113
 Phase 52.1
 PFD 1.1e-01
 Delays (us)
 SBD -0.006506
 MBD -0.007257
 Fringe rate (Hz)
 -0.006096
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040014.31
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051213
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	24.4	55.4	127.4	3.3	112.6	0.0	68.1	37.9	Phase	52.1
	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	256.8	257.2	118.7	172.2	365.5	132.0	253.3	254.1	Sbd box	255.3
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.84336349346E+03		Apriori delay (usec)		-5.84335623604E+03		Resid mbdelay (usec)		-7.25742E-03	+/- 1.7E-04
Sband delay (usec)	-5.84336274154E+03		Apriori clock (usec)		1.4229012E+00		Resid sbdelay (usec)		-6.50550E-03	+/- 1.4E-03
Phase delay (usec)	-5.84335623436E+03		Apriori clockrate (us/s)		-1.6000000E-08		Resid phdelay (usec)		1.67939E-06	+/- 5.9E-07
Delay rate (us/s)	-1.16371777302E+00		Apriori rate (us/s)		-1.16371770226E+00		Resid rate (us/s)		-7.07651E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.14109796400E-05		Resid phase (deg)		52.1	+/- 18.4

ph/seg (deg) 47.5 44.1 Search (2048X32) 0.109 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 93.9 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.1 26.0 Inc. seg. avg. 0.130 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.3 45.4 Inc. frq. avg. 0.133 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 298.2 el 38.8 pa 70.6 Z: az 115.4 el 62.7 pa -37.4 u,v (fr/asec) 9037.189 -981.673 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yZ..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yZ.W.124.1W6LVT simultaneous interpolator

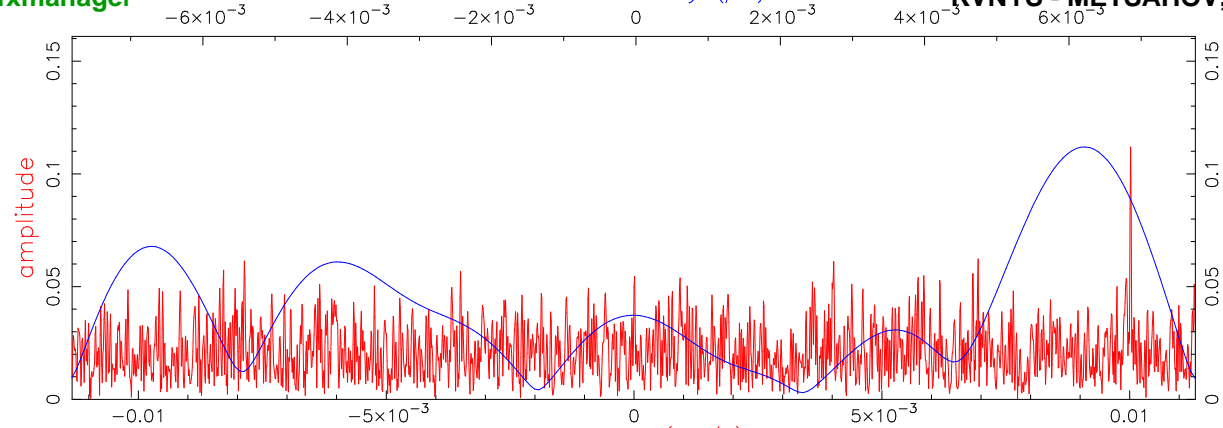
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yZ

KVNYS - METSAHOV, fgroup W, pol RL

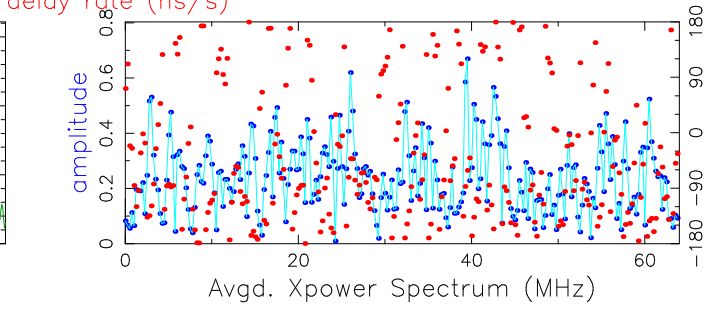
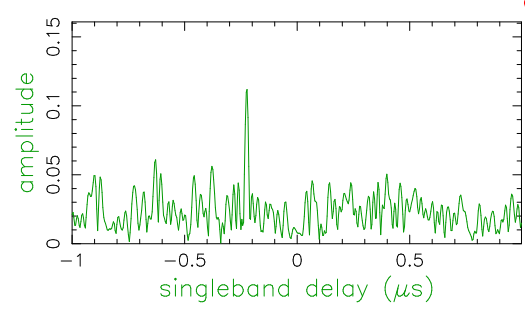
multiband delay (μ s)



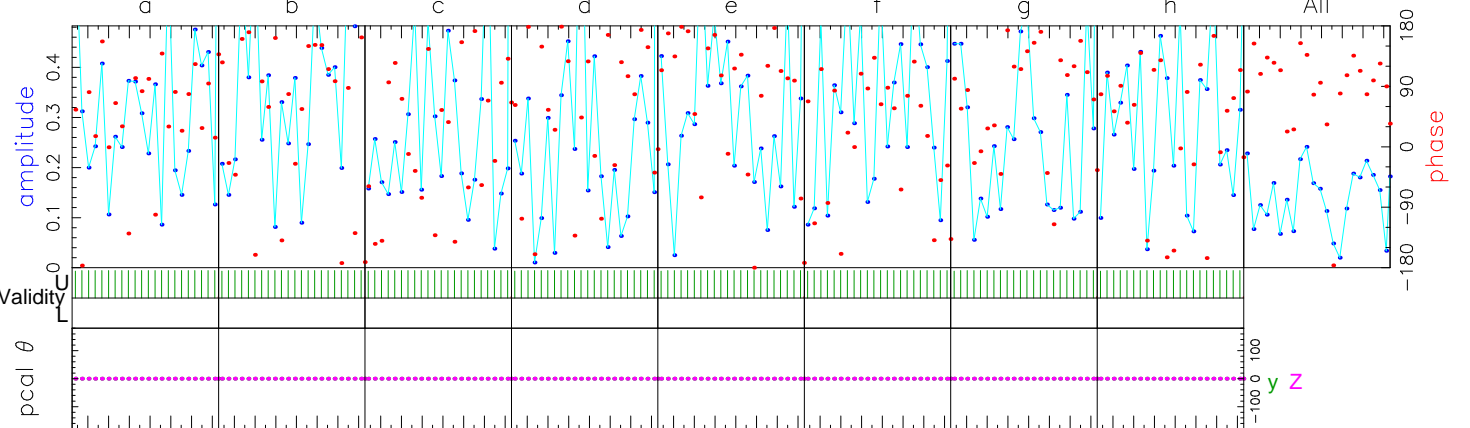
Fringe quality 0

SNR 6.3
 Int time 405.575
 Amp 0.161
 Phase 106.1
 PFD 9.1e-02
 Delays (us)
 SBD -0.224290
 MBD 0.006250
 Fringe rate (Hz)
 0.864193
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040014.31
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051216
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	76.8	146.8	84.7	100.5	136.5	67.1	108.0	108.5	Phase	106.1
	0.2	0.3	0.0	0.1	0.2	0.2	0.2	0.2	Ampl.	0.2
	198.5	199.8	72.3	374.9	23.3	102.5	305.1	276.4	Sbd box	199.6
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.84358436091E+03		Apriori delay (usec)		-5.84335623604E+03		Resid mbdelay (usec)		6.25013E-03	+/- 1.7E-04
Sband delay (usec)	-5.84358052579E+03		Apriori clock (usec)		1.4229012E+00		Resid sbdelay (usec)		-2.24290E-01	+/- 1.4E-03
Phase delay (usec)	-5.84335623262E+03		Apriori clockrate (us/s)		-1.6000000E-08		Resid phdelay (usec)		3.42126E-06	+/- 5.9E-07
Delay rate (us/s)	-1.16370766983E+00		Apriori rate (us/s)		-1.16371770226E+00		Resid rate (us/s)		1.00324E-05	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.14109796400E-05		Resid phase (deg)		106.1	+/- 18.3

ph/seg (deg) 40.5 43.8 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.1 76.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.2 25.8 Inc. seg. avg. 0.150 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.8 45.1 Inc. frq. avg. 0.162 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 298.2 el 38.8 pa 70.6 Z: az 115.4 el 62.7 pa -37.4 u,v (fr/asec) 9037.189 -981.673 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yZ..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yZ.W.138.1W6LVT

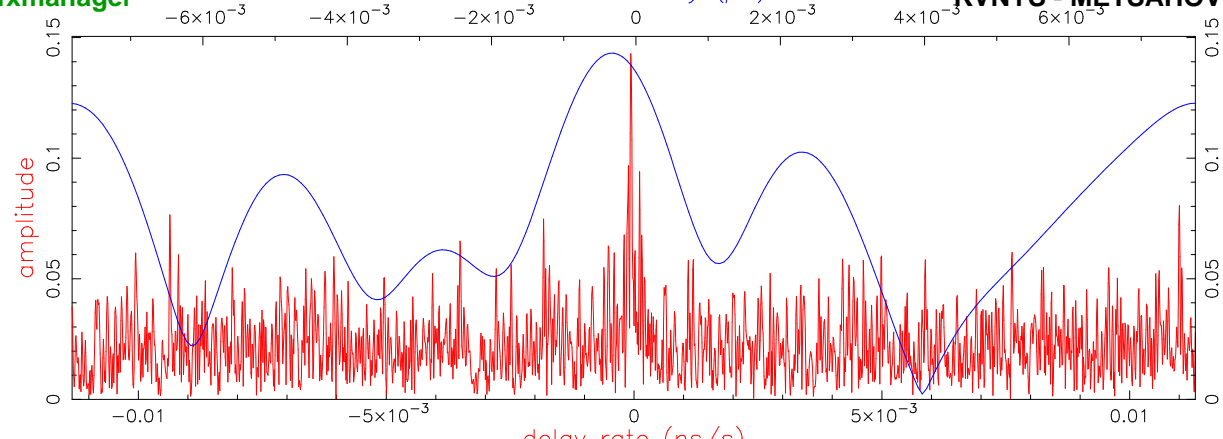
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W6LVT, No0166, yZ

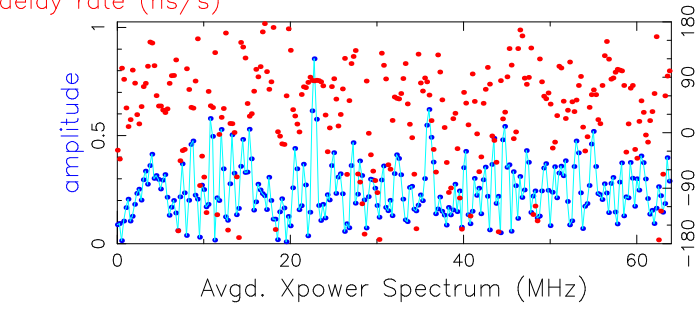
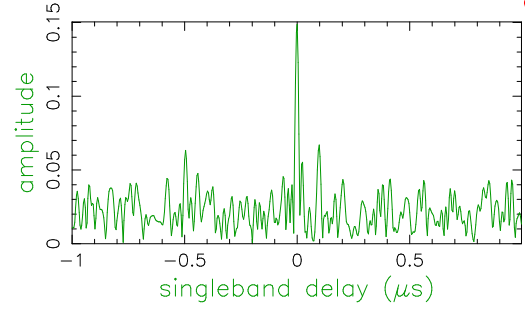
KVNYS - METSAHOV, fgroup W, pol LL

multiband delay (μs)



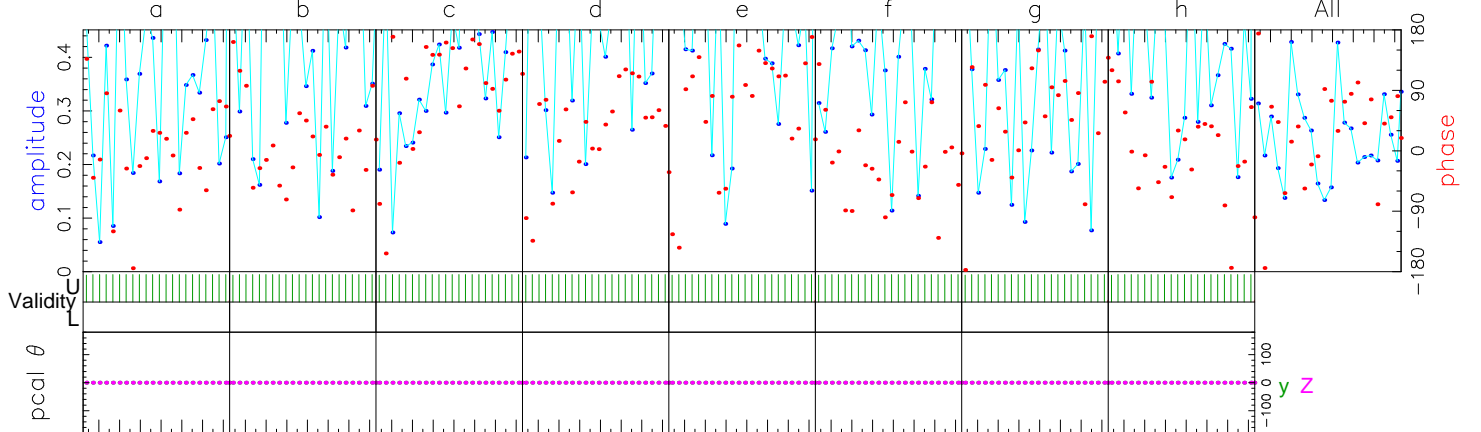
Fringe quality 9

SNR 8.3
 Int time 405.575
 Amp 0.150
 Phase 44.7
 PFD 4.1e-08
 Delays (us)
 SBD -0.001287
 MBD -0.000273
 Fringe rate (Hz)
 -0.006189
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 040014.31
 Stop 040700.84
 FRT 040331.00
 Corr/FF/build
 2021:287:032807
 2021:287:051206
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0				
y	1000	1000	1000	1000	1000	1000	1000	1000	APs used			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC			
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
Z	1000	1000	1000	1000	1000	1000	1000	1000				
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Chan ids			
									Tracks			
Group delay (usec)(sbd)	-5.84335650934E+03		Apriori delay (usec)		-5.84335623604E+03		Resid mbdelay (usec)		-2.73298E-04	+/- 1.3E-04		
Sband delay (usec)	-5.84335752254E+03		Apriori clock (usec)		1.4229012E+08		Resid sbdelay (usec)		-1.28650E-03	+/- 1.0E-03		
Phase delay (usec)	-5.84335623460E+03		Apriori clockrate (us/s)		-1.6000000E-08		Resid phdelay (usec)		1.44070E-06	+/- 4.5E-07		
Delay rate (us/s)	-1.16371777411E+00		Apriori rate (us/s)		-1.16371770226E+00		Resid rate (us/s)		-7.18513E-08	+/- 1.9E-09		
Total phase (deg)			Apriori accel (us/s/s)		1.14109796400E-05		Resid phase (deg)		44.7	+/- 13.8		
RMS	65.1	33.2	Amplitude		0.150 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	65.1	33.2	Search (2048X32)		0.140		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	85.4	57.9	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	60.9	19.6	Inc. seg. avg.		0.215		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011	
amp/frq (%)	57.7	34.1	Inc. frq. avg.		0.220		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

y: az 298.2 el 38.8 pa 70.6 Z: az 115.4 el 62.7 pa -37.4 u,v (fr/asec) 9037.189 -981.673 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0166/yZ..1W6LVT Output file: /Exps/c211a/v2/1234/No0166/yZ.W.88.1W6LVT