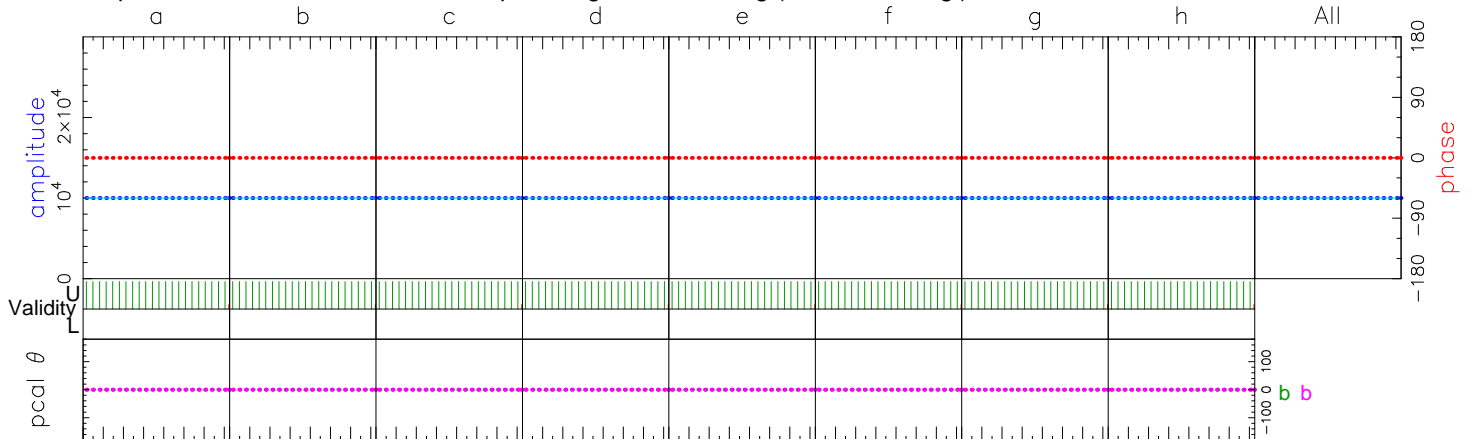


Fringe quality 9

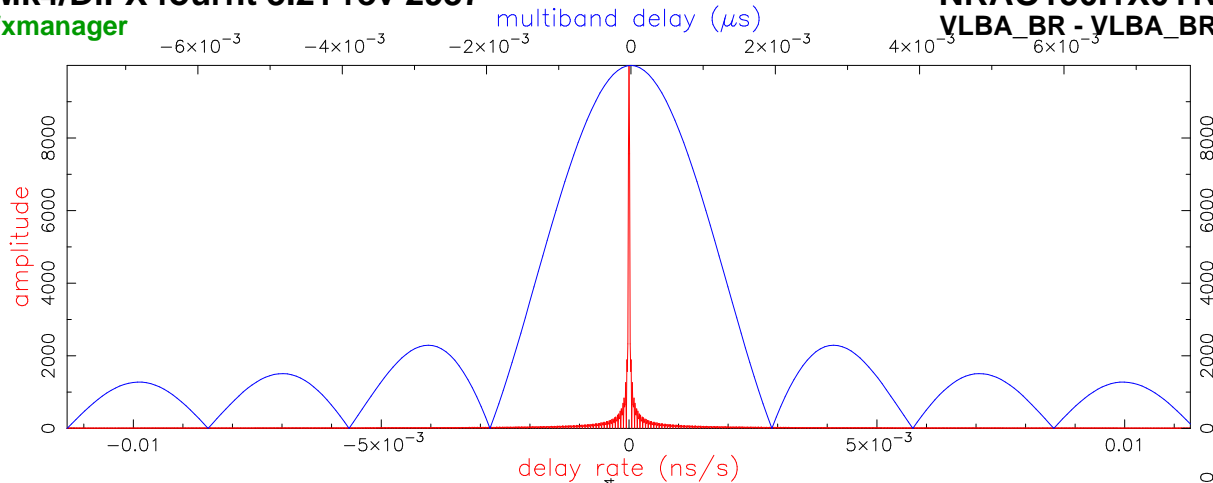
SNR 560315.7
Int time 419.827
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125139
2021:252:122852
RA & Dec (J2000) 03h59m29.747267s +50°57'50.161694"

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

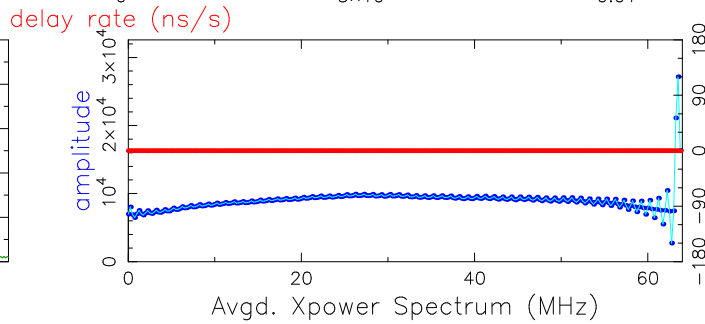
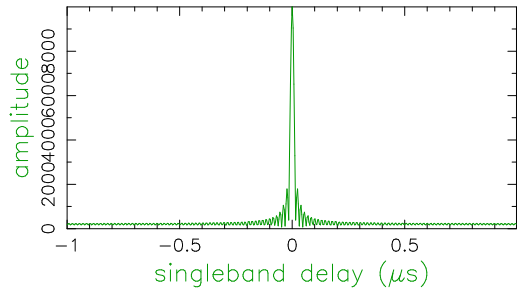


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
b	0	0	0	0	0	0	0	0	Ampl.	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC phase	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.7E-14
Total phase (deg)			0.0						0.0	+/- 0.0
	RMS	Theor.	Amplitude	9999.999 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (2048X32)	9999.999	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.	9999.999	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
b: az 52.6 el 37.9 pa -57.6			b: az 52.6 el 37.9 pa -57.6		u,v (fr/asec) 0.000 0.000					simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c211c/v1/1234/No0085/bb..1X0YRU		Output file: /Exps/c211c/v1/1234/No0085/bb.W.21.1X0YRU					



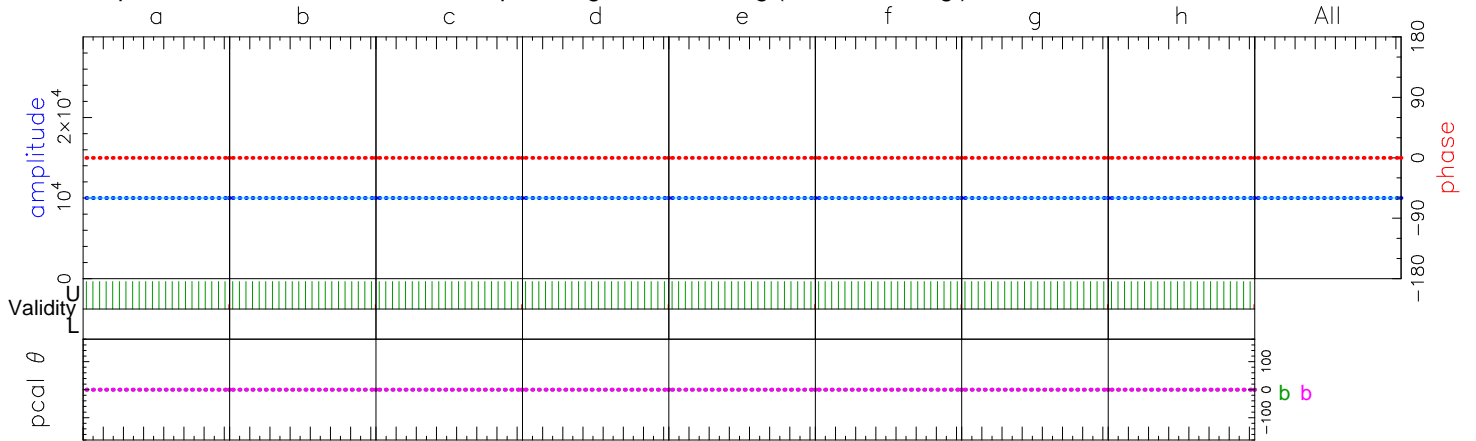
Fringe quality 9

SNR 560315.7
Int time 419.827
Amp 9999.999
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. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125136
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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
b	0	0	0	0	0	0	0	0	Ampl.	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

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

RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.999 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. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_coherence infinite ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bb..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bb.W.2.1X0YRU

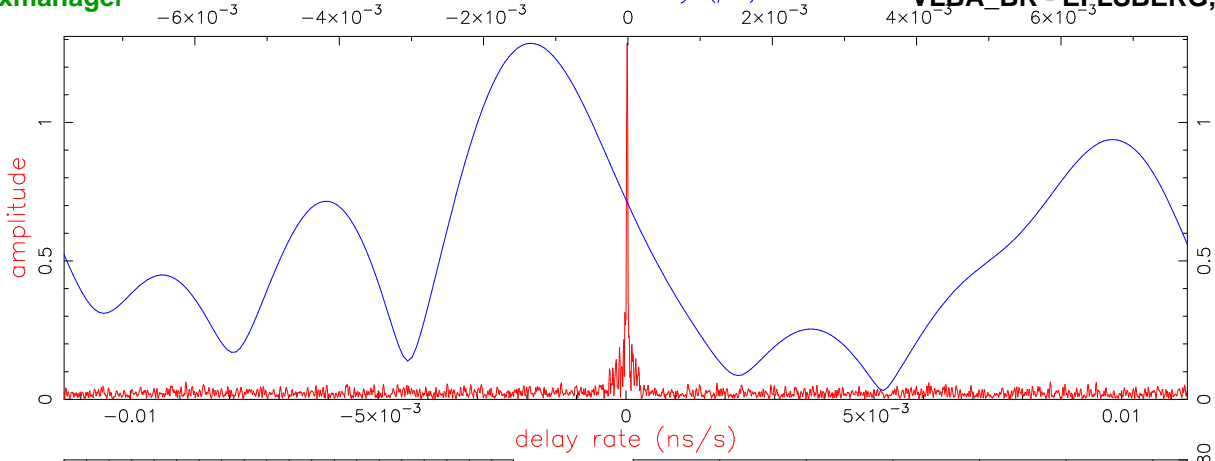
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bB

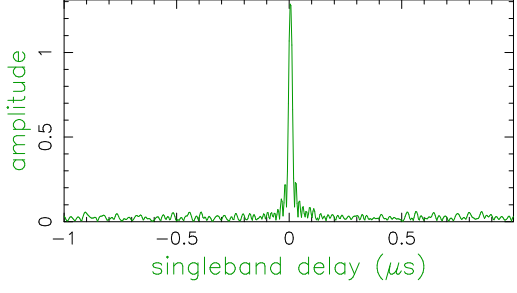
VLBA_BR - EFLSBERG, fgroup W, pol RR

multiband delay (μ s)

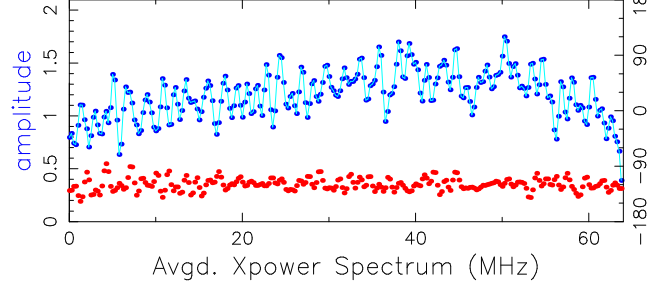


Fringe quality 5

SNR 73.4
 Int time 419.815
 Amp 1.311
 Phase -38.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.005719
 MBD -0.001300
 Fringe rate (Hz) 0.002378
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

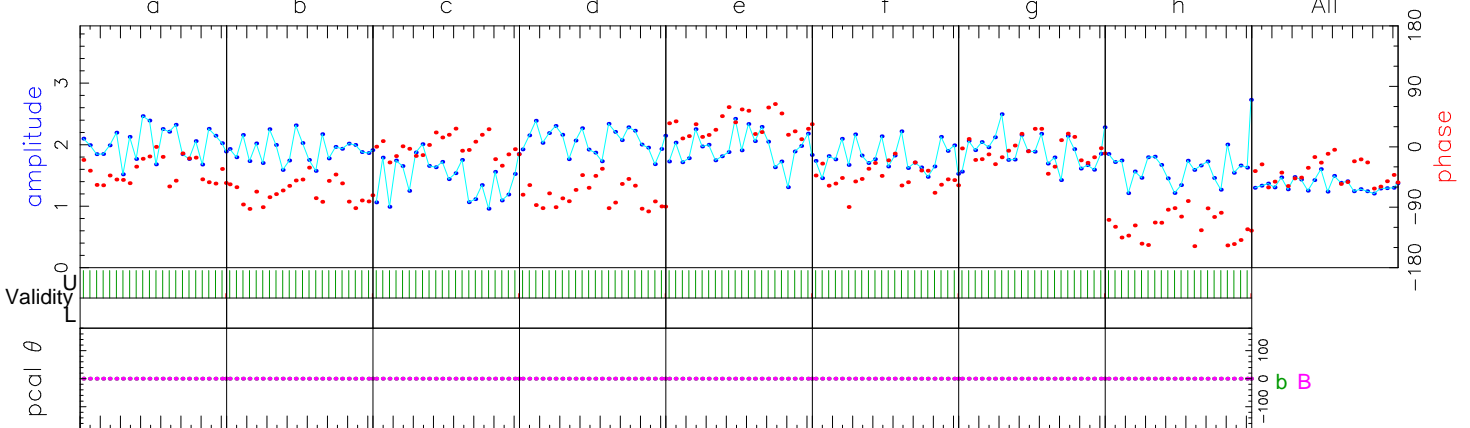


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125139
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-35.8	-67.8	0.1	-71.4	33.4	-44.8	-4.4	-119.8	Phase	-38.0
	1.9	1.8	1.4	2.0	1.9	1.7	1.8	1.5	Ampl.	1.8
	258.4	258.6	257.9	257.9	257.9	257.7	257.3	257.4	Sbd box	258.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.82432671177E+03		Apriori delay (usec)		-5.82432541142E+03		Resid mbdelay (usec)		-1.30036E-03	+/- 1.5E-05
Sband delay (usec)	-5.82431969242E+03		Apriori clock (usec)		1.9078539E+01		Resid sbdelay (usec)		5.71900E-03	+/- 1.2E-04
Phase delay (usec)	-5.82432541264E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		-1.22390E-06	+/- 5.0E-08
Delay rate (us/s)	1.06816287084E+00		Apriori rate (us/s)		1.06816284323E+00		Resid rate (us/s)		2.76040E-08	+/- 2.1E-10
Total phase (deg)			Apriori accel (us/s/s)		2.86783858681E-05		Resid phase (deg)		-38.0	+/- 1.6

ph/seg (deg) 17.4 3.7 Search (2048X32) 1.200 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 8.1 6.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.3 2.2 Inc. seg. avg. 1.343 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.5 3.9 Inc. frq. avg. 1.751 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 52.6 el 37.9 pa -57.6 B: az 287.4 el 64.1 pa 74.9 u,v (fr/asec) -9677.577 2721.270 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bB..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bB.W.23.1X0YRU

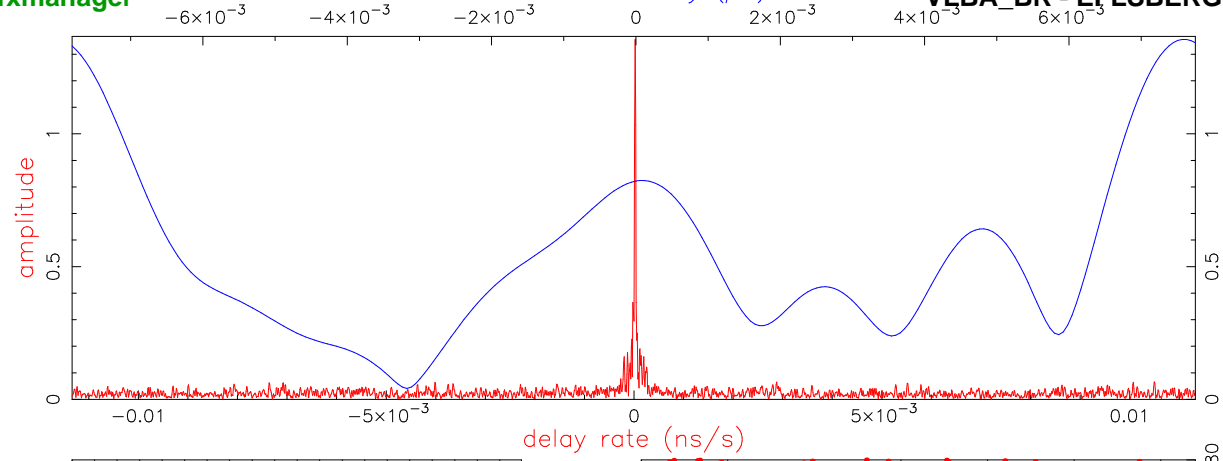
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bB

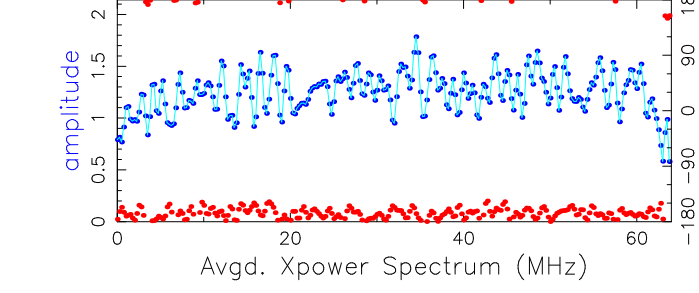
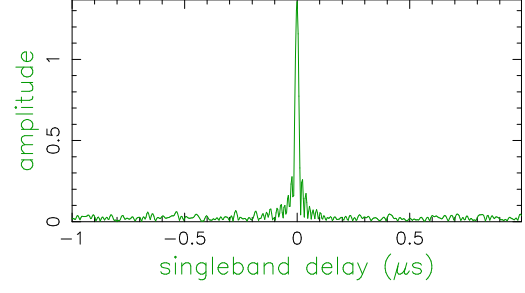
VLBA_BR - EFLSBERG, fgroup W, pol LL

multiband delay (μ s)



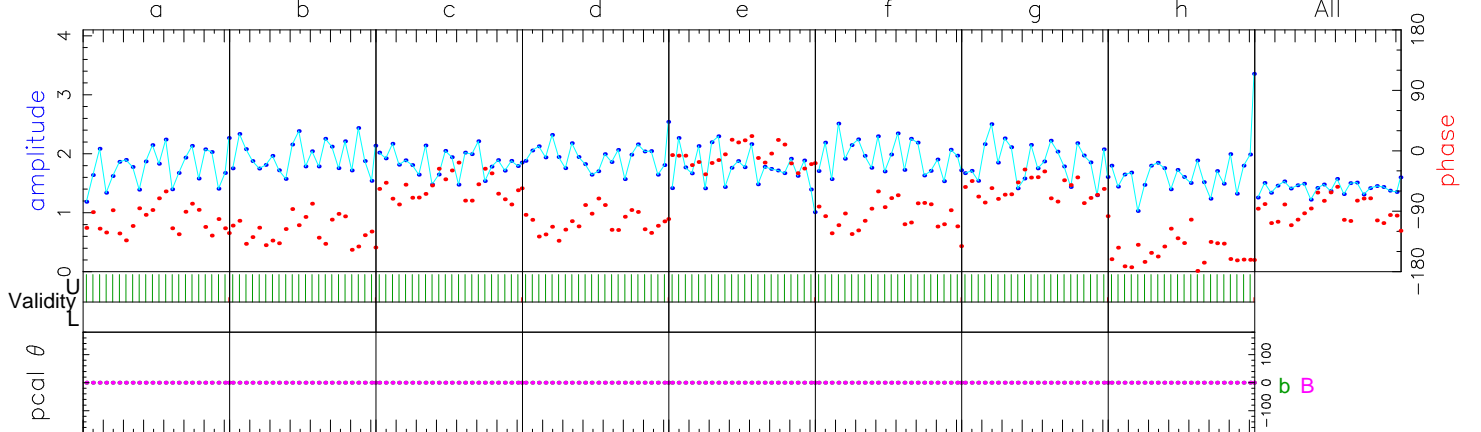
Fringe quality 5

SNR 76.6
 Int time 419.815
 Amp 1.367
 Phase -87.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.001143
 MBD -0.008056
 Fringe rate (Hz)
 0.002385
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125136
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-102.0	-118.0	-55.9	-106.2	-7.5	-95.4	-57.0	-151.4	Phase	-87.8
	1.7	1.8	1.8	1.9	1.7	1.9	1.8	1.6	Ampl.	1.8
	256.1	256.6	256.4	256.1	255.9	256.1	255.8	255.6	Sbd box	256.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.82433346780E+03		Apriori delay (usec)		-5.82432541142E+03		Resid mbdelay (usec)		-8.05638E-03	+/- 1.4E-05
Sband delay (usec)	-5.82432655492E+03		Apriori clock (usec)		1.9078539E+01		Resid sbdelay (usec)		-1.14350E-03	+/- 1.1E-04
Phase delay (usec)	-5.82432541425E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		-2.83223E-06	+/- 4.8E-08
Delay rate (us/s)	1.06816287092E+00		Apriori rate (us/s)		1.06816284323E+00		Resid rate (us/s)		2.76826E-08	+/- 2.0E-10
Total phase (deg)			Apriori accel (us/s/s)		2.86783858681E-05		Resid phase (deg)		-87.8	+/- 1.5

ph/seg (deg) 17.1 3.6 Search (2048X32) 1.245 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 7.6 6.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.3 2.1 Inc. seg. avg. 1.417 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.6 3.7 Inc. frq. avg. 1.758 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 52.6 el 37.9 pa -57.6 B: az 287.4 el 64.1 pa 74.9 u,v (fr/asec) -9677.577 2721.270 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bB..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bB.W.3.1X0YRU

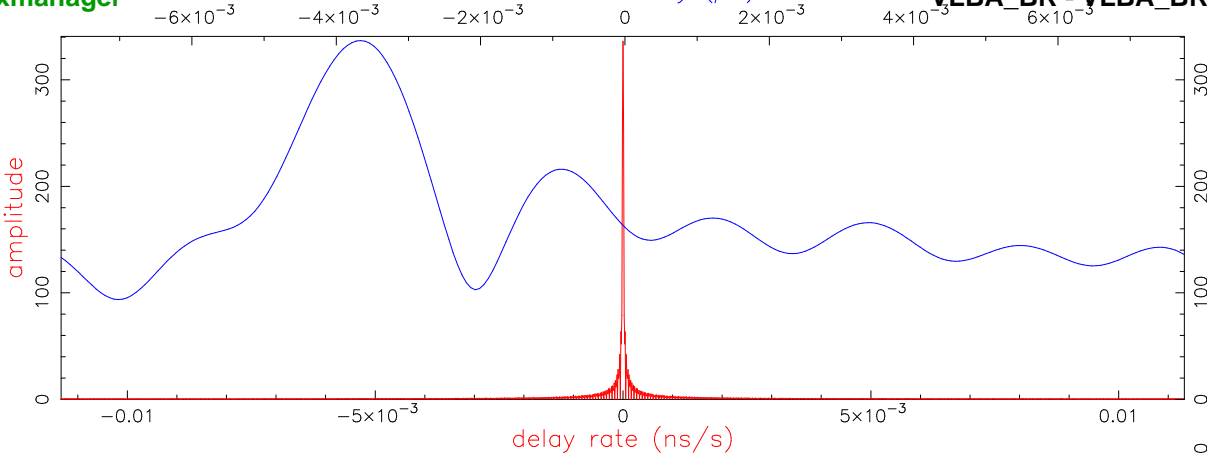
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bb

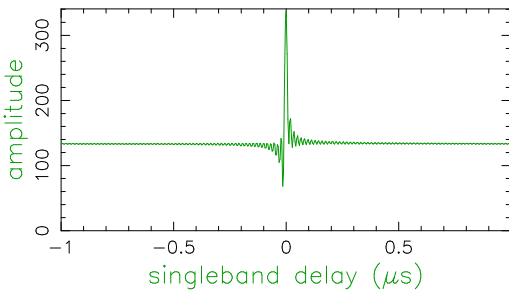
VLBA_BR - VLBA_BR, fgroup W, pol LR

multiband delay (μ s)

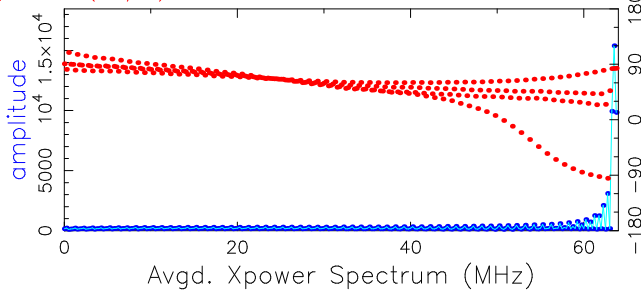


Fringe quality 5

SNR 19093.3
 Int time 419.827
 Amp 340.759
 Phase 91.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.001245
 MBD -0.003605
 Fringe rate (Hz)
 0.000005
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

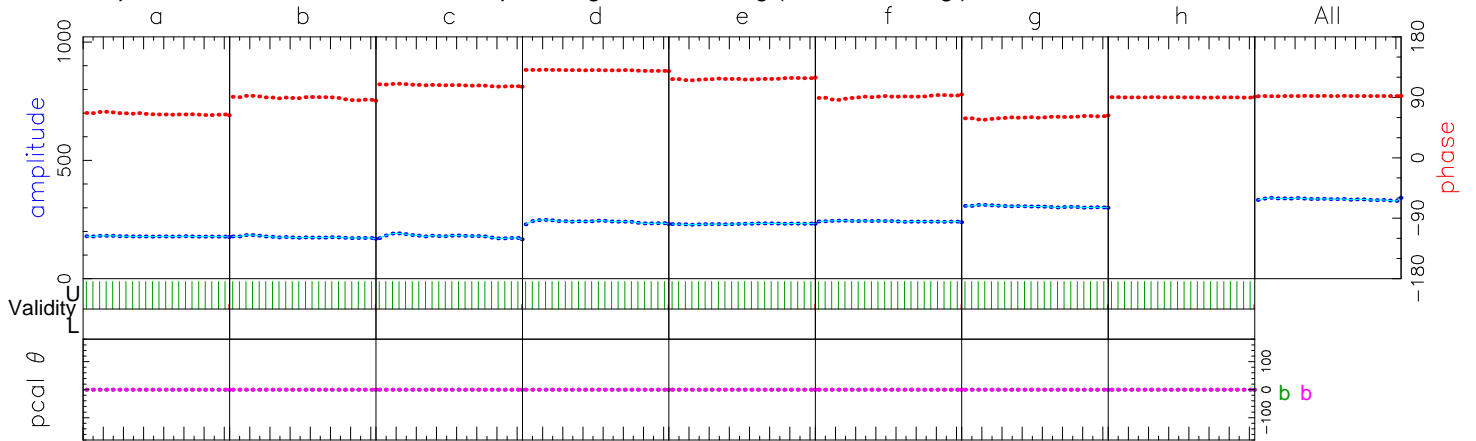


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125142
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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



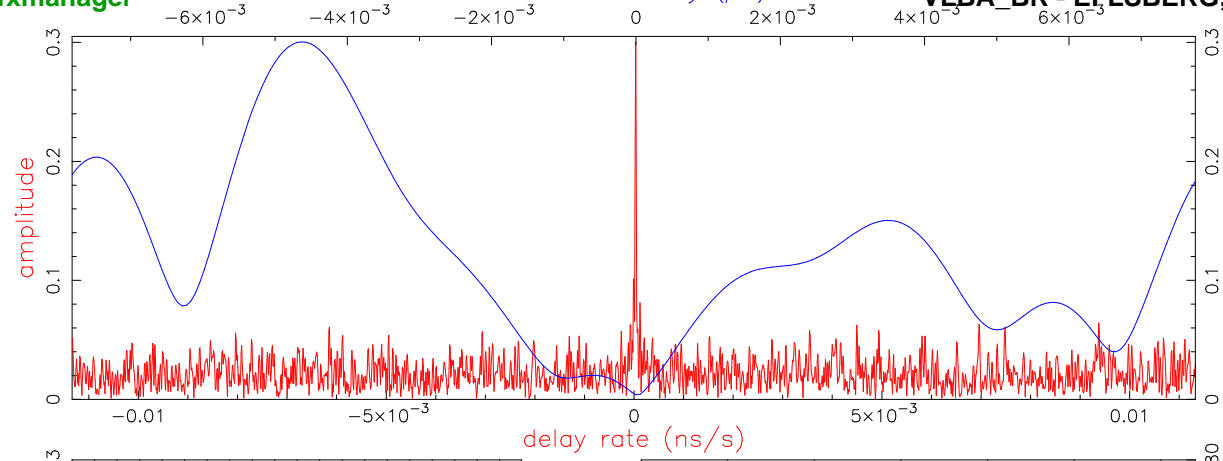
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	65.4	89.2	108.0	130.2	117.3	90.6	60.0	89.9	Phase	91.9
	179.1	175.8	179.8	241.0	231.7	242.6	305.3	1281.8	Ampl.	354.7
	256.0	256.2	256.2	256.2	255.7	255.8	255.9	257.3	Sbd box	256.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	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	
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -3.60487500000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -3.60487E-03 +/- 5.7E-08
 Sband delay (usec) -1.24500000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -1.24500E-03 +/- 4.5E-07
 Phase delay (usec) 2.96261160143E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.96261E-06 +/- 1.9E-10
 Delay rate (us/s) 5.31418214688E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 5.31418E-11 +/- 8.0E-13
 Total phase (deg) 91.9 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 91.9 +/- 0.0

RMS Theor. Amplitude 340.759 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (2048X32) 328.794 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 26.2 0.0 Inc. seg. avg. 336.241 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 103.6 0.0 Inc. frq. avg. 354.665 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

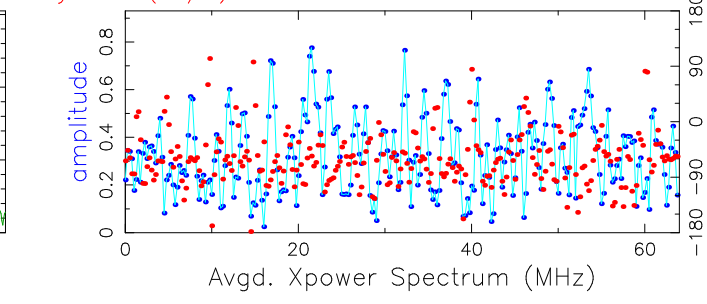
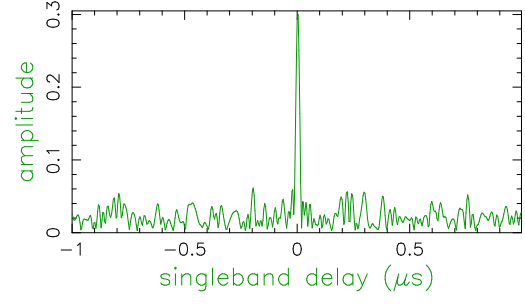
b: az 52.6 el 37.9 pa -57.6 b: az 52.6 el 37.9 pa -57.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bb..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bb.W.40.1X0YRU

multiband delay (μ s)



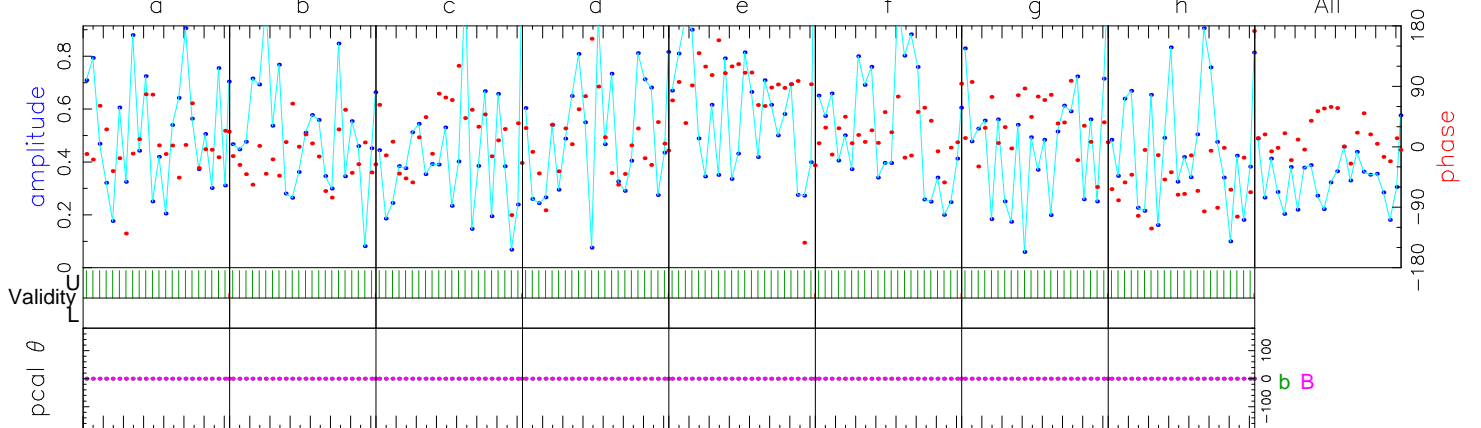
Fringe quality 8

SNR 17.1
 Int time 419.815
 Amp 0.305
 Phase 14.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.002317
 MBD -0.004662
 Fringe rate (Hz)
 0.002496
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125143
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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	0	0	0	0	0	0	0	0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	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		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.82433007292E+03									
Sband delay (usec)	-5.82432309417E+03									
Phase delay (usec)	-5.82432541095E+03									
Delay rate (us/s)	1.06816287221E+00									
Total phase (deg)			-323.6							
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)									14.6	+/- 6.7
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Sample rate (MSamp/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								

b: az 52.6 el 37.9 pa -57.6 B: az 287.4 el 64.1 pa 74.9 u,v (fr/asec) -9677.577 2721.270 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bB..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bB.W.43.1X0YRU

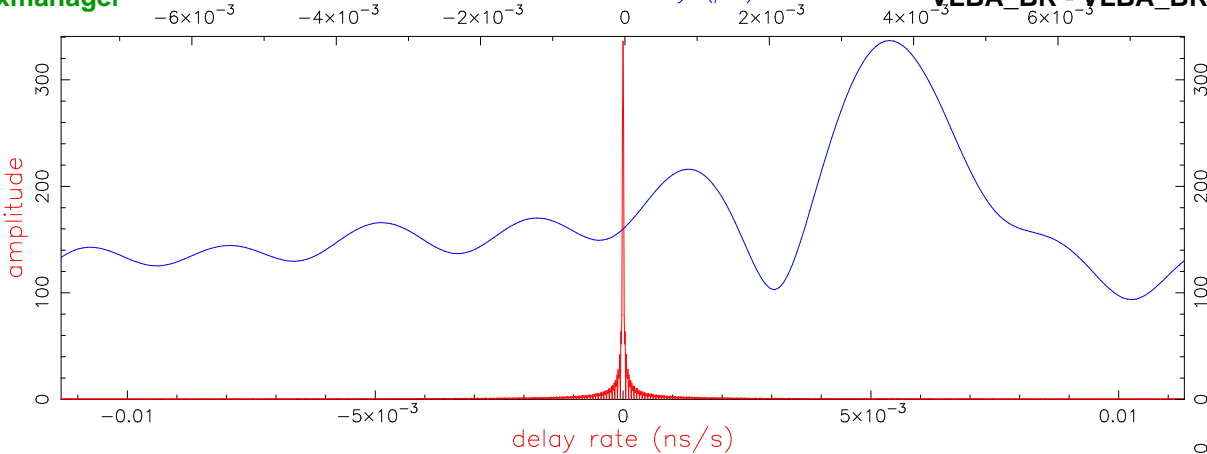
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bb

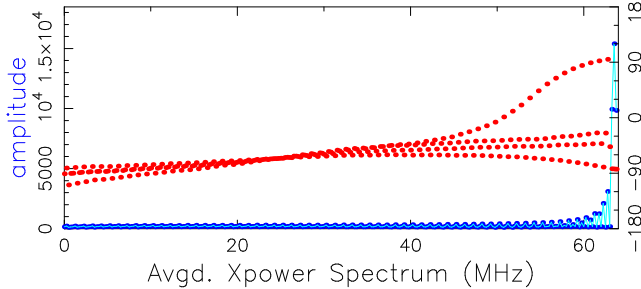
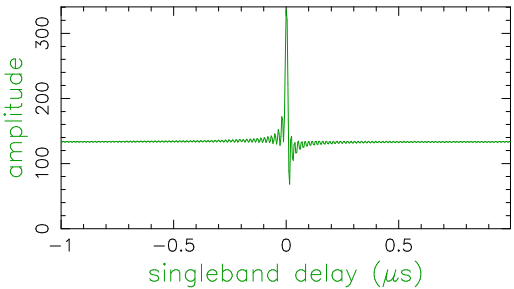
VLBA_BR - VLBA_BR, fgroup W, pol RL

multiband delay (μ s)



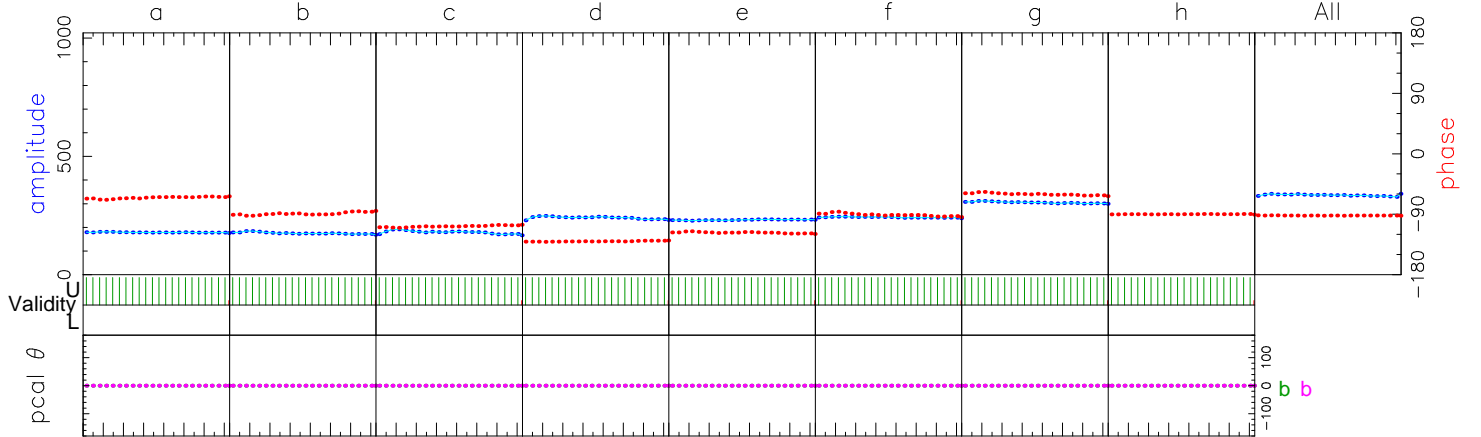
Fringe quality 5

SNR 19093.3
 Int time 419.827
 Amp 340.759
 Phase -91.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.001245
 MBD 0.003605
 Fringe rate (Hz)
 -0.000005
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125146
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-65.4	-89.2	-108.0	-130.2	-117.3	-90.6	-60.0	-89.9	Phase	-91.9
	179.1	175.8	179.8	241.0	231.7	242.6	305.3	1281.8	Ampl.	354.7
	258.0	257.8	257.8	257.8	258.3	258.2	258.1	256.7	Sbd box	257.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	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	
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.60487500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.60487E-03	+/- 5.7E-08
Sband delay (usec)	1.24500000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.24500E-03	+/- 4.5E-07
Phase delay (usec)	-2.96261160147E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.96261E-06	+/- 1.9E-10
Delay rate (us/s)	-5.31418214688E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-5.31418E-11	+/- 8.0E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-91.9	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 340.759 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.6 0.0 Search (2048X32) 328.794 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.2 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 103.6 0.0 Inc. seg. avg. 336.241 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 52.6 el 37.9 pa -57.6 b: az 52.6 el 37.9 pa -57.6 u,v (fr/asec) 0.000 0.000 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bb..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bb.W.54.1X0YRU simultaneous interpolator

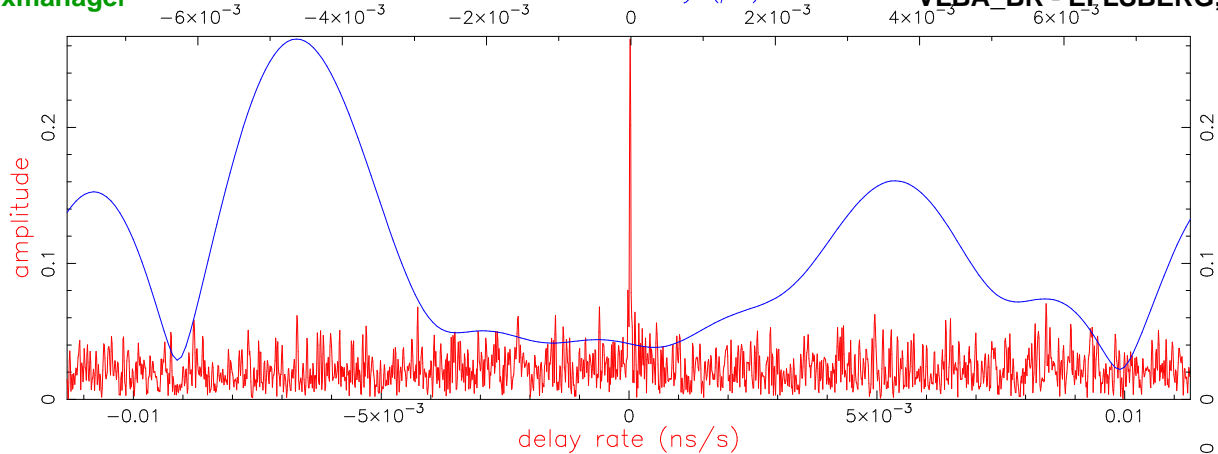
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bB

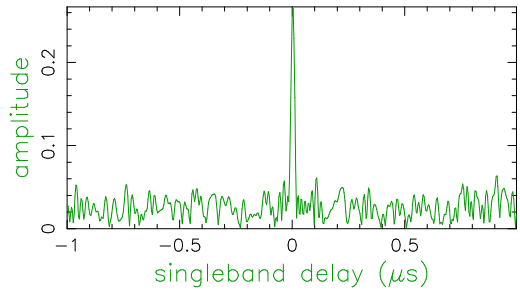
VLBA_BR - EFLSBERG, fgroup W, pol RL

multiband delay (μ s)



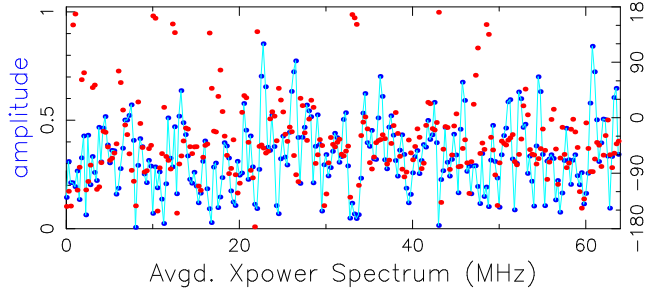
Fringe quality 8

SNR 15.0
 Int time 419.815
 Amp 0.267
 Phase 38.8
 PFD 8.9e-42
 Delays (us)
 SBD 0.002768
 MBD -0.004663
 Fringe rate (Hz)
 0.002371
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



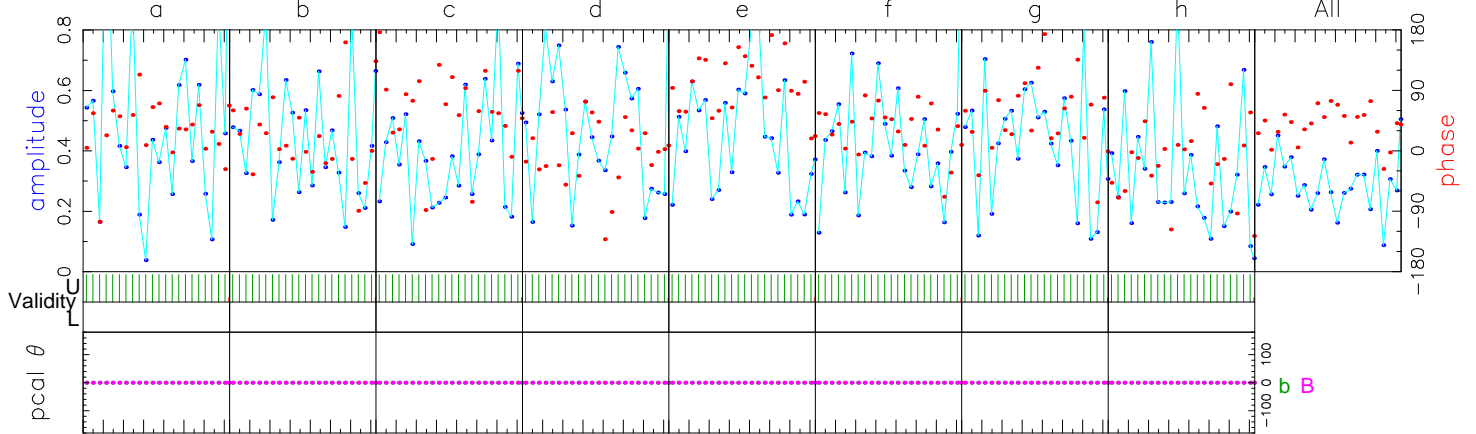
singleband delay (μ s)

delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125147
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	34.8	10.3	75.7	-1.1	110.6	38.3	59.1	-13.1	Phase	38.8
	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	Ampl.	0.3
	257.2	258.1	257.5	257.9	256.6	257.1	256.2	255.3	Sbd box	257.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.82433007449E+03		Apriori delay (usec)		-5.82432541142E+03		Resid mbdelay (usec)		-4.66307E-03	+/- 7.3E-05
Sband delay (usec)	-5.82432264342E+03		Apriori clock (usec)		1.9078539E+01		Resid sbdelay (usec)		2.76800E-03	+/- 5.8E-04
Phase delay (usec)	-5.82432541017E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		1.25050E-06	+/- 2.5E-07
Delay rate (us/s)	1.06816287076E+00		Apriori rate (us/s)		1.06816284323E+00		Resid rate (us/s)		2.75303E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		2.86783858681E-05		Resid phase (deg)		38.8	+/- 7.7

ph/seg (deg) 26.0 18.4 Search (2048X32) 0.243 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 31.7 32.1 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 10.8 Inc. seg. avg. 0.272 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.2 18.9 Inc. frq. avg. 0.326 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 52.6 el 37.9 pa -57.6 B: az 287.4 el 64.1 pa 74.9 u,v (fr/asec) -9677.577 2721.270 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bB..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bB.W.63.1X0YRU

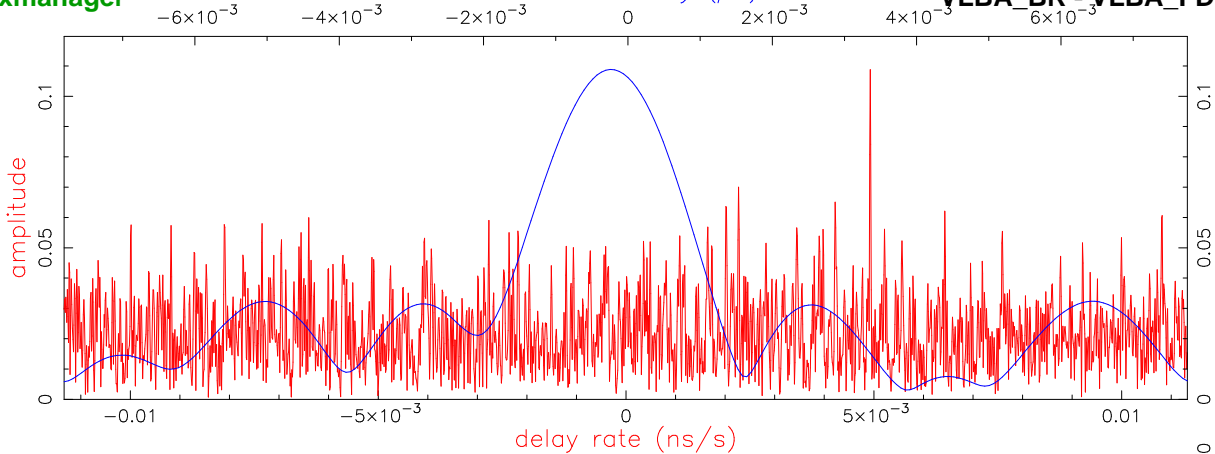
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bf

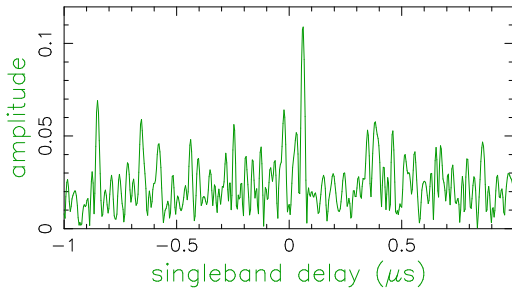
VLBA_BR - VLBA_FD, fgroup W, pol LL

multiband delay (μ s)

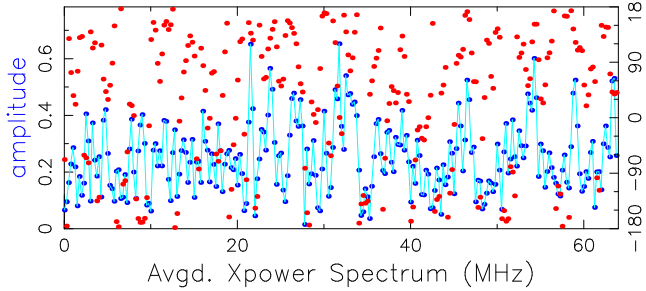


Fringe quality 0

SNR 6.2
Int time 415.102
Amp 0.120
Phase 93.2
PFD 1.7e-01
Delays (us)
SBD 0.060828
MBD -0.000215
Fringe rate (Hz)
0.425126
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

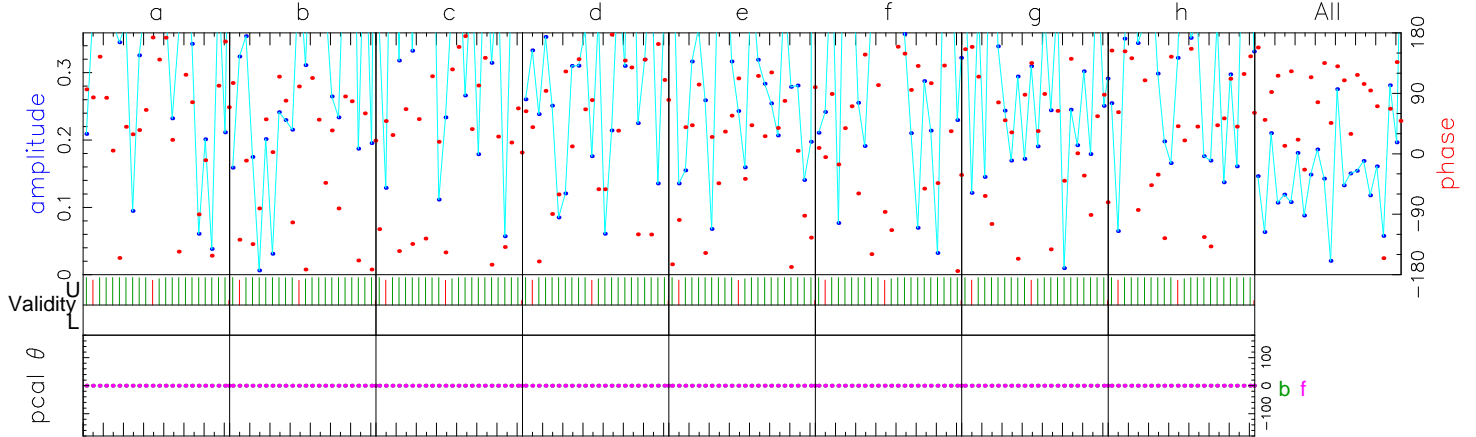


delay rate (ns/s)



Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125136
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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
	106.8	79.3	89.8	111.6	64.7	94.0	95.4	100.4	Phase	93.2
	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	266.8	114.7	108.9	422.7	184.5	293.9	265.0	167.1	Sbd box	272.6
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.35315291375E+02	Apriori delay (usec)	5.35253006615E+02	Resid mbdelay (usec)	-2.15241E-04	+/-	1.8E-04
Sband delay (usec)	5.35313834115E+02	Apriori clock (usec)	-1.3245539E+01	Resid sbdelay (usec)	6.08275E-02	+/-	1.4E-03
Phase delay (usec)	5.35253009619E+02	Apriori clockrate (us/s)	-1.6000000E-07	Resid phdelay (usec)	3.00426E-06	+/-	6.0E-07
Delay rate (us/s)	-1.32663461071E-01	Apriori rate (us/s)	-1.32668396366E-01	Resid rate (us/s)	4.93530E-06	+/-	2.5E-09
Total phase (deg)	89.5	Apriori accel (us/s/s)	1.76957631155E-05	Resid phase (deg)	93.2	+/-	18.6

ph/seg (deg)	52.0	Theor.	44.4	Amplitude	0.120 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.8	Search (2048X32)	0.105	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	16.3	Inc. seg. avg.	0.124	Inc. frq. avg.	0.110	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	23.3	Inc. frq. avg.	0.110			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

b: az 52.6 el 37.9 pa -57.6 f: az 46.6 el 36.0 pa -83.5 u,v (fr/asec) 1233.400 3016.332 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bf..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bf.W.1.1X0YRU

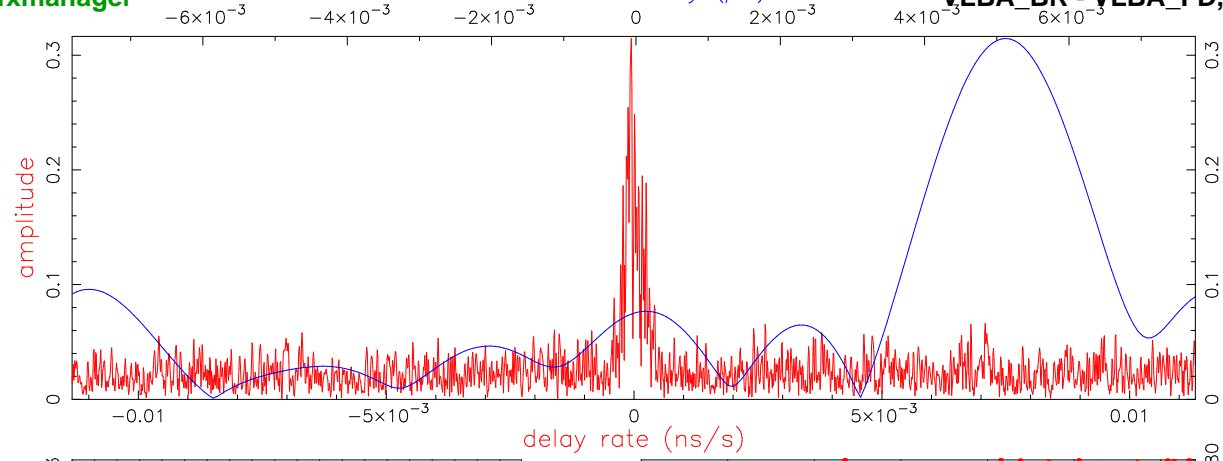
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bf

VLBA_BR - VLBA_FD, fgroup W, pol RR

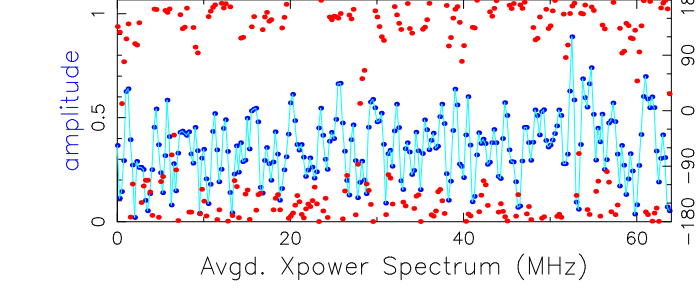
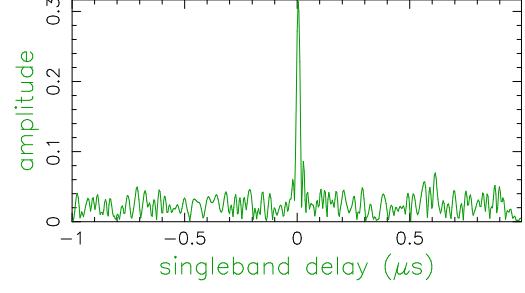
multiband delay (μ s)



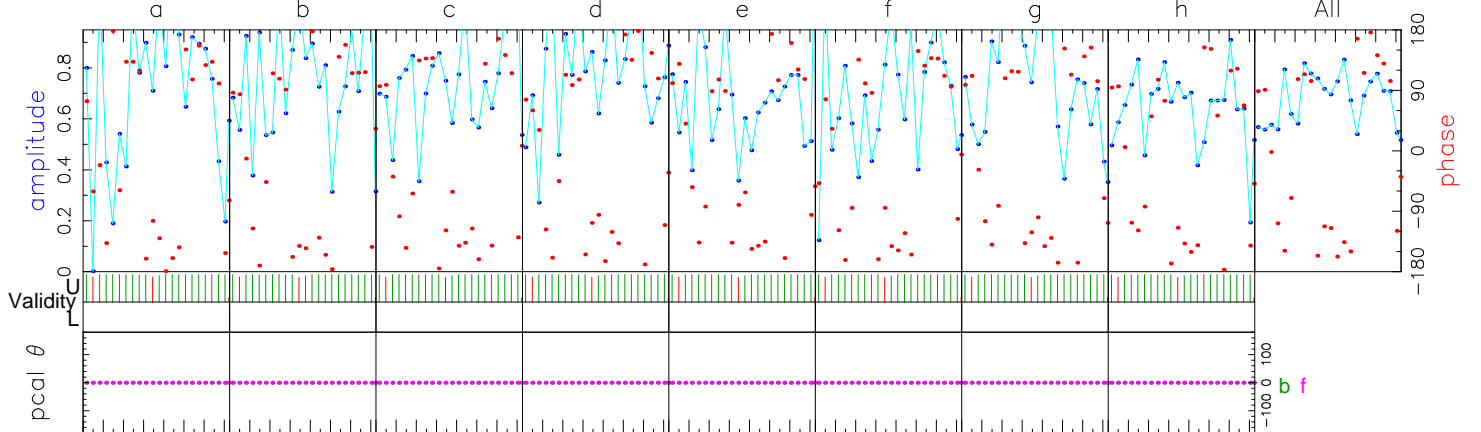
Fringe quality 9

SNR 17.6
Int time 415.102
Amp 0.316
Phase 173.0
PFD 0.0e+00
Delays (us)
SBD 0.004862
MBD 0.005148
Fringe rate (Hz) -0.005075
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125139
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	167.3	162.5	-168.6	-179.2	172.5	166.9	-180.0	150.1	Phase	173.0
	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.2	Ampl.	0.3
	257.8	258.0	257.9	258.6	258.9	258.3	258.2	413.6	Sbd box	258.2
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.35258154692E+02		Apriori delay (usec)		5.35253006615E+02		Resid mbdelay (usec)		5.14808E-03	+/- 6.2E-05
Sband delay (usec)	5.35257868615E+02		Apriori clock (usec)		-1.3245539E+01		Resid sbdelay (usec)		4.86200E-03	+/- 4.9E-04
Phase delay (usec)	5.35253012193E+02		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		5.57817E-06	+/- 2.1E-07
Delay rate (us/s)	-1.32668455281E-01		Apriori rate (us/s)		-1.32668396366E-01		Resid rate (us/s)		-5.89144E-08	+/- 8.7E-10
Total phase (deg)	169.3		Apriori accel (us/s/s)		1.76957631155E-05		Resid phase (deg)		173.0	+/- 6.5

ph/seg (deg) 71.7 15.5 Search (2048X32) 0.304 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 118.9 27.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.8 9.2 Inc. seg. avg. 0.656 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.2 16.0 Inc. frq. avg. 0.317 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 52.6 el 37.9 pa -57.6 f: az 46.6 el 36.0 pa -83.5 u,v (fr/asec) 1233.400 3016.332 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bf..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bf.W.22.1X0YRU

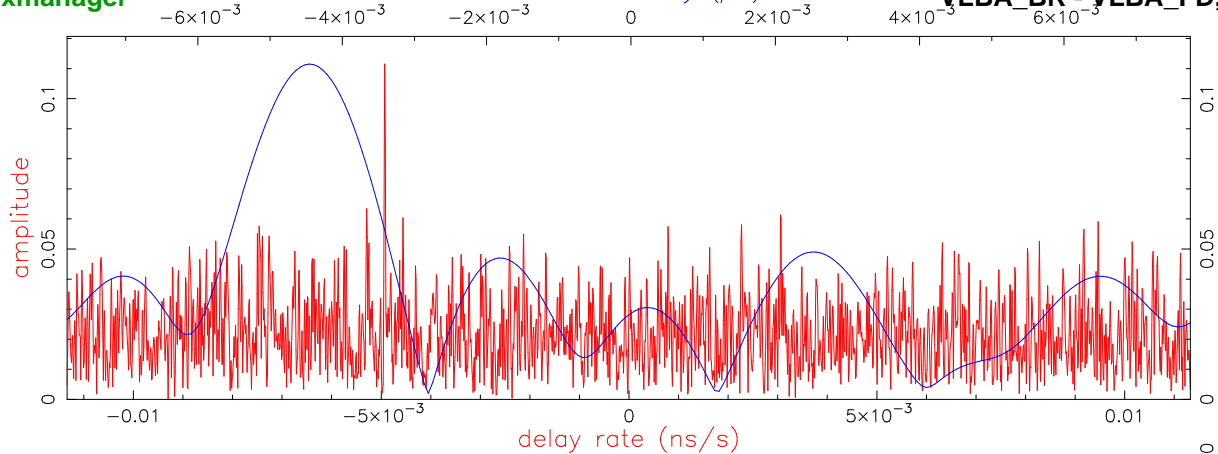
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bf

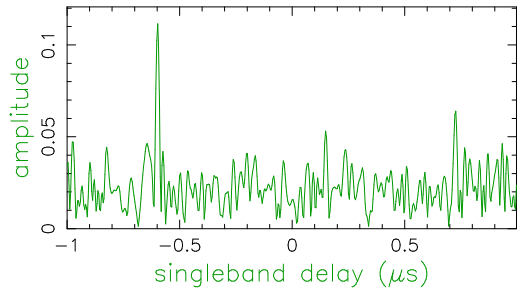
VLBA_BR - VLBA_FD, fgroup W, pol LR

multiband delay (μ s)

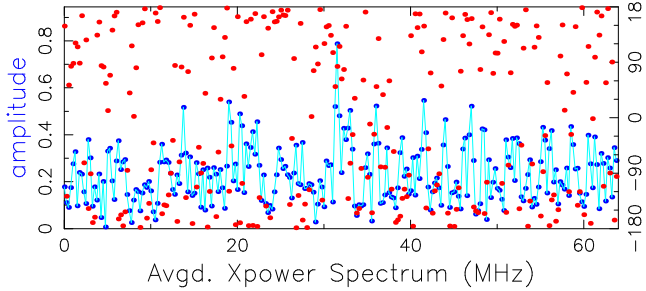


Fringe quality 0

SNR 6.2
 Int time 415.102
 Amp 0.121
 Phase 179.4
 PFD 1.3e-01
 Delays (us)
 SBD -0.597892
 MBD -0.004456
 Fringe rate (Hz)
 -0.425249
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

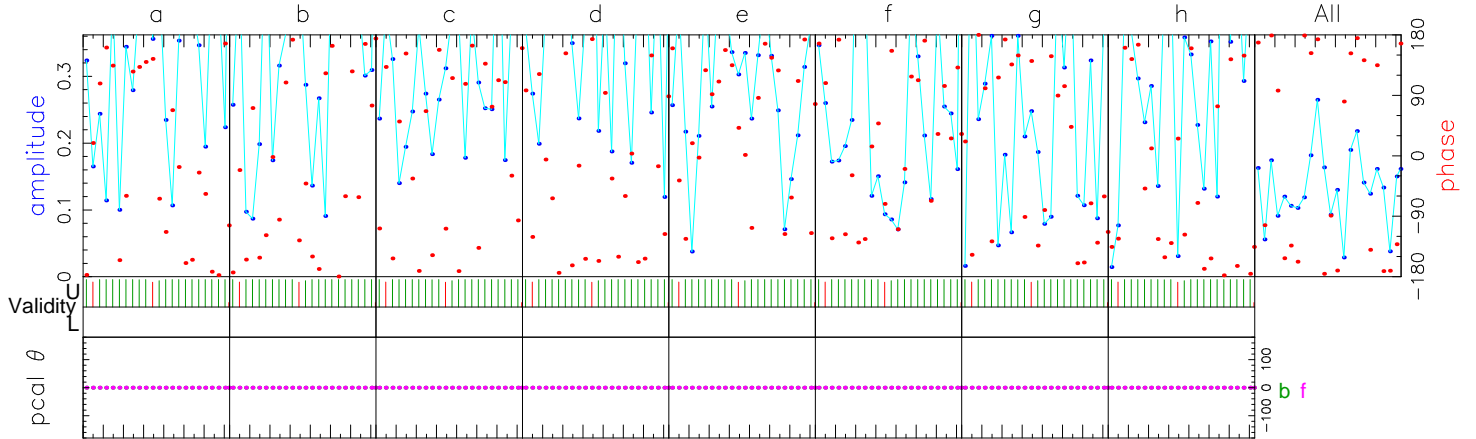


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125143
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	178.1	-160.8	165.2	-160.9	134.4	159.5	-178.5	-169.7	Phase	179.4
	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	Ampl.	0.1
	389.2	263.6	410.1	138.1	189.2	445.7	247.2	104.1	Sbd box	103.9
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.34654800168E+02		Apriori delay (usec)		5.35253006615E+02		Resid mbdelay (usec)		-4.45645E-03	+/- 1.7E-04
Sband delay (usec)	5.34655114365E+02		Apriori clock (usec)		-1.3245539E+01		Resid sbdelay (usec)		-5.97892E-01	+/- 1.4E-03
Phase delay (usec)	5.35253012402E+02		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		5.78671E-06	+/- 5.9E-07
Delay rate (us/s)	-1.32673333088E-01		Apriori rate (us/s)		-1.32668396366E-01		Resid rate (us/s)		-4.93672E-06	+/- 2.5E-09
Total phase (deg)	175.8		Apriori accel (us/s/s)		1.76957631155E-05		Resid phase (deg)		179.4	+/- 18.4

	RMS	Theor.	Amplitude	0.121 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	44.2	44.0	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	53.2	76.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	24.3	26.1	Inc. seg. avg.	0.112	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	40.5	45.5	Inc. frq. avg.	0.116	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 f: az 46.6 el 36.0 pa -83.5 u,v (fr/asec) 1233.400 3016.332 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bf..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bf.W.44.1X0YRU

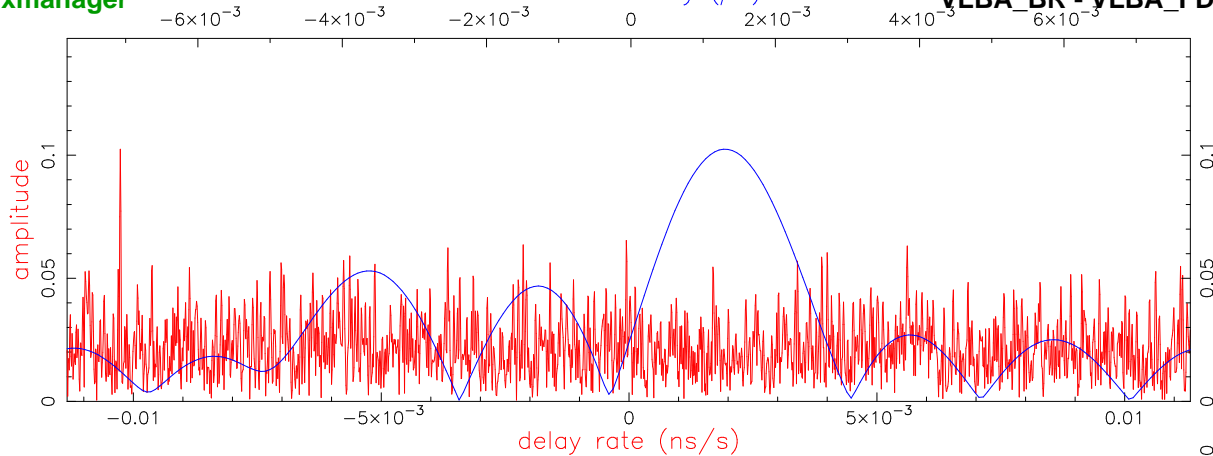
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bf

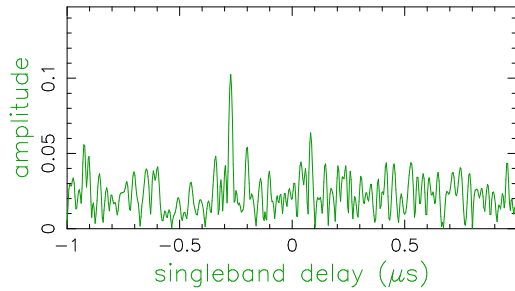
VLBA_BR - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)

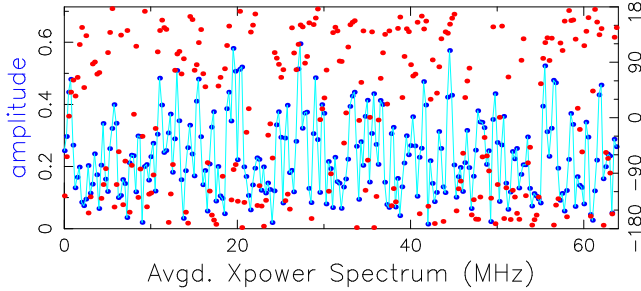


Fringe quality 0

SNR 5.7
 Int time 415.102
 Amp 0.147
 Phase -122.4
 PFD 9.4e-01
 Delays (us)
 SBD -0.273330
 MBD 0.001306
 Fringe rate (Hz)
 -0.884897
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

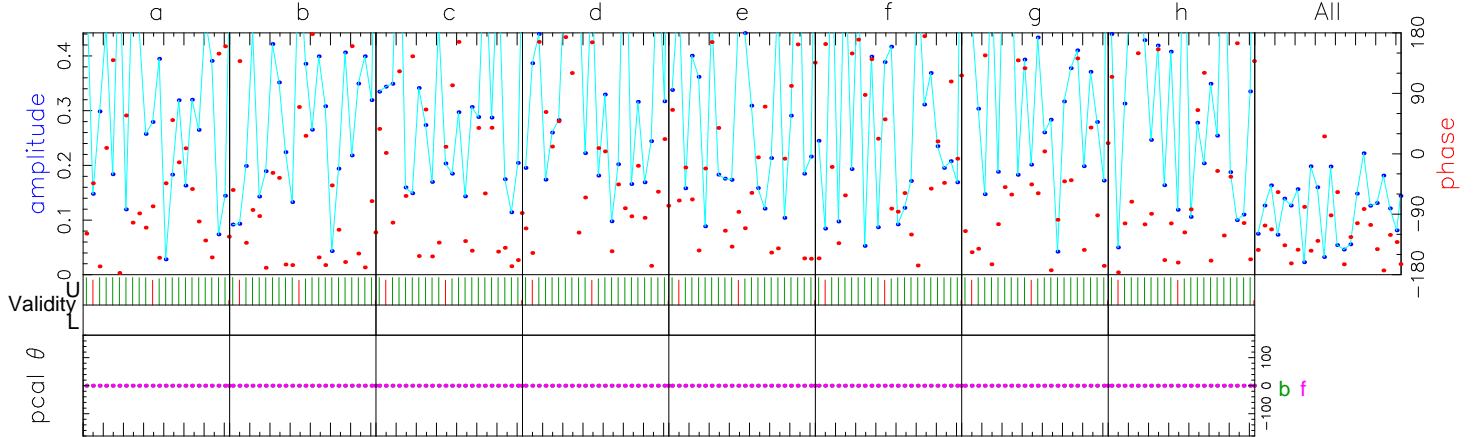


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125147
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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

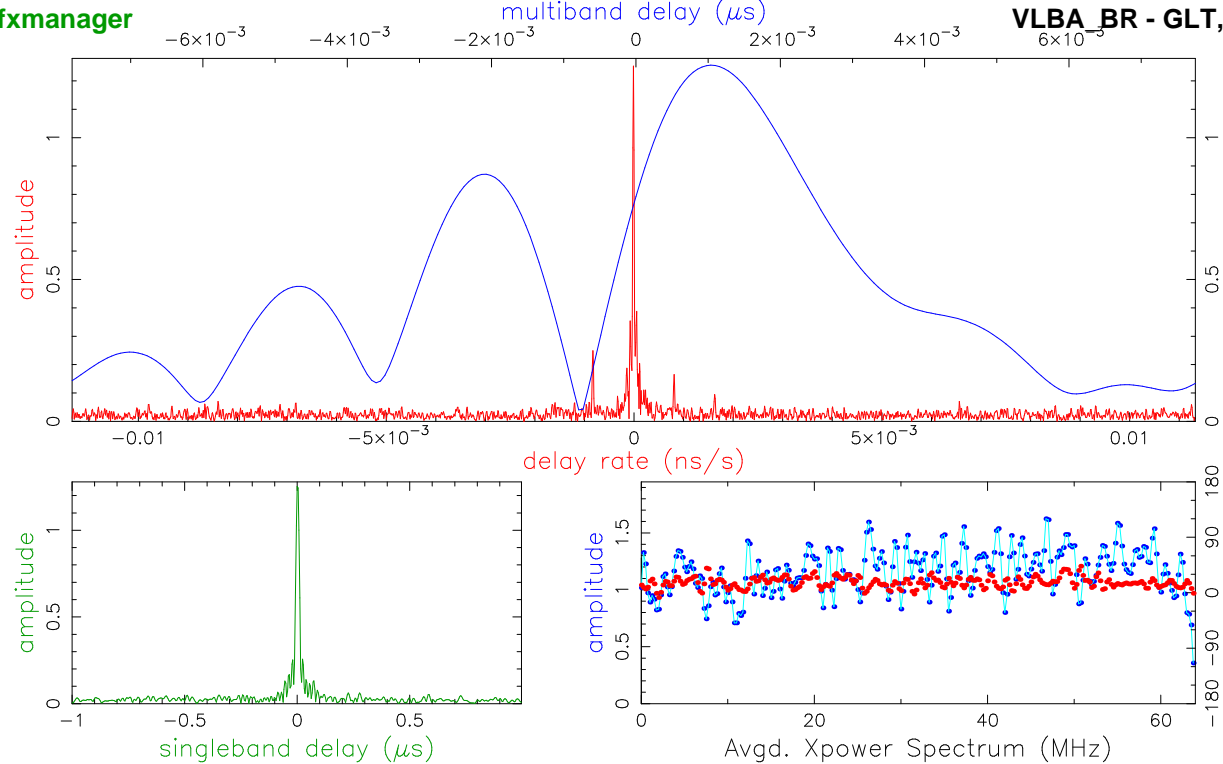


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.7	-132.7	-150.7	-103.2	-131.0	-110.2	-101.7	-135.3	Phase	-122.4
	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
	292.6	52.5	109.1	18.7	19.1	198.3	316.4	190.3	Sbd box	187.0
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.34973062125E+02		Apriori delay (usec)		5.35253006615E+02		Resid mbdelay (usec)		1.30551E-03	+/- 1.9E-04
Sband delay (usec)	5.34979676865E+02		Apriori clock (usec)		-1.3245539E+01		Resid sbdelay (usec)		-2.73330E-01	+/- 1.5E-03
Phase delay (usec)	5.35253002668E+02		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		-3.94749E-06	+/- 6.5E-07
Delay rate (us/s)	-1.32678669140E-01		Apriori rate (us/s)		-1.32668396366E-01		Resid rate (us/s)		-1.02728E-05	+/- 2.7E-09
Total phase (deg)	233.9		Apriori accel (us/s/s)		1.76957631155E-05		Resid phase (deg)		-122.4	+/- 20.1

	RMS	Theor.	Amplitude	0.147 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.8	47.9	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	57.2	83.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	19.0	28.4	Inc. seg. avg.	0.128	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	36.1	49.5	Inc. frq. avg.	0.136	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

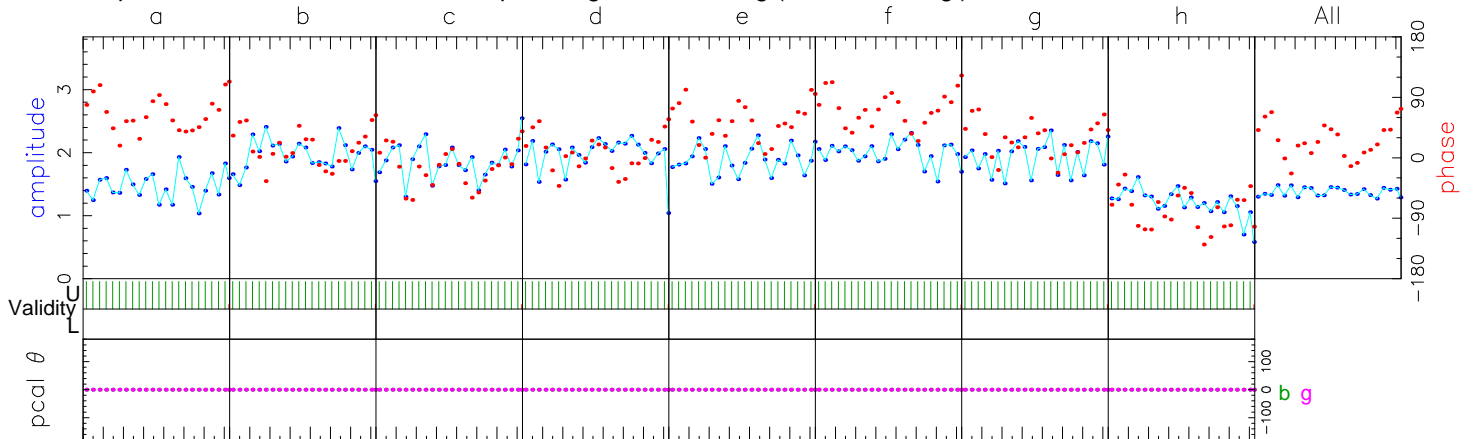
b: az 52.6 el 37.9 pa -57.6 f: az 46.6 el 36.0 pa -83.5 u,v (fr/asec) 1233.400 3016.332 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bf..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bf.W.64.1X0YRU



Fringe quality 4
SNR 71.7
Int time 419.821
Amp 1.279
Phase 24.8
PFD 0.0e+00
Delays (us)
SBD 0.001814
MBD 0.001133
Fringe rate (Hz)
-0.000528
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125140
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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
	64.9	13.5	-13.5	5.2	51.3	71.1	28.6	-78.0	Phase	24.8
	1.3	1.8	1.6	1.8	1.7	1.8	1.7	1.1	Ampl.	1.6
	255.5	257.5	257.8	257.5	257.7	257.5	256.7	254.9	Sbd box	257.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.48494497700E+03		Apriori delay (usec)		-5.48494610971E+03		Resid mbdelay (usec)		1.13271E-03	+/- 1.5E-05
Sband delay (usec)	-5.48494429521E+03		Apriori clock (usec)		-3.4229527E+00		Resid sbdelay (usec)		1.81450E-03	+/- 1.2E-04
Phase delay (usec)	-5.48494610891E+03		Apriori clockrate (us/s)		-1.7200000E-07		Resid phdelay (usec)		8.00866E-07	+/- 5.2E-08
Delay rate (us/s)	5.24387236449E-01		Apriori rate (us/s)		5.24387242574E-01		Resid rate (us/s)		-6.12477E-09	+/- 2.1E-10
Total phase (deg)			Apriori accel (us/s/s)		9.09649477774E-06		Resid phase (deg)		24.8	+/- 1.6

ph/seg (deg) 25.1 3.8
amp/seg (%) 9.4 6.7
ph/frq (deg) 53.3 2.3
amp/frq (%) 32.4 3.9

RMS Theor. Amplitude 1.279 +/- 0.018
Search (2048X32) 1.192
Interp. 0.000
Inc. seg. avg. 1.377
Inc. frq. avg. 1.610

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

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

b: az 52.6 el 37.9 pa -57.6 g: az 132.7 el 61.3 pa -15.6 u,v (fr/asec) -4755.914 -347.152 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bg..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bg.W.26.1X0YRU

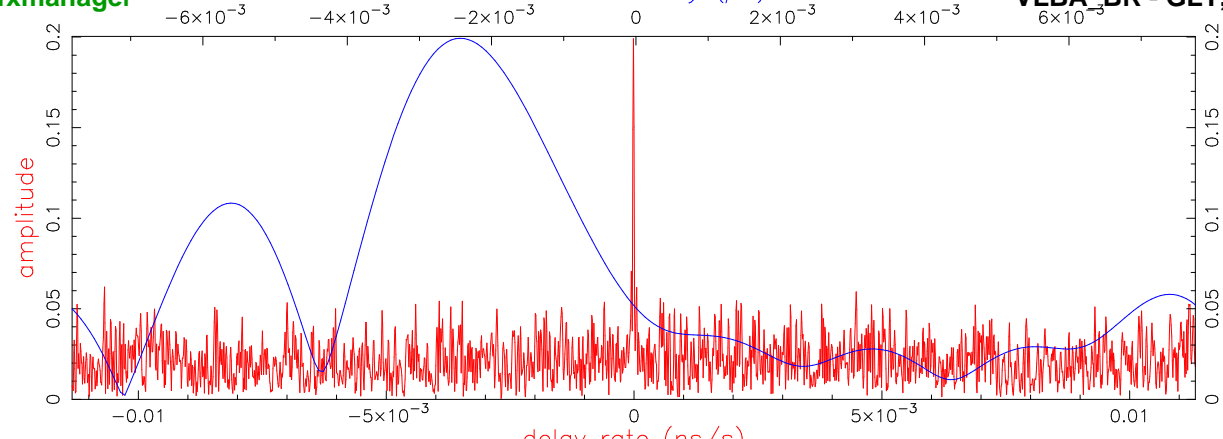
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bg

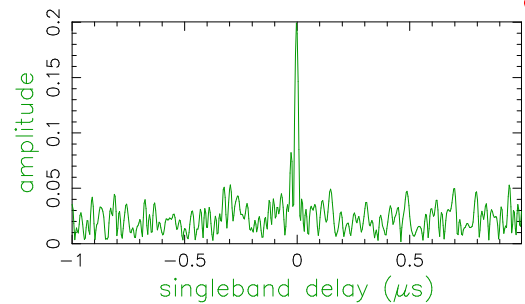
VLBA_BR - GLT, fgroup W, pol LR

multiband delay (μ s)

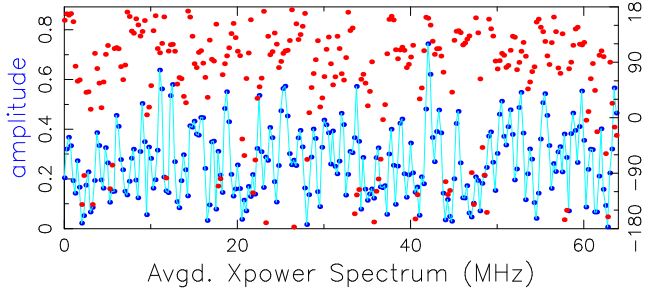


Fringe quality 9

SNR 11.2
 Int time 419.821
 Amp 0.200
 Phase 106.0
 PFD 1.4e-20
 Delays (us)
 SBD -0.002930
 MBD -0.002373
 Fringe rate (Hz)
 -0.000598
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

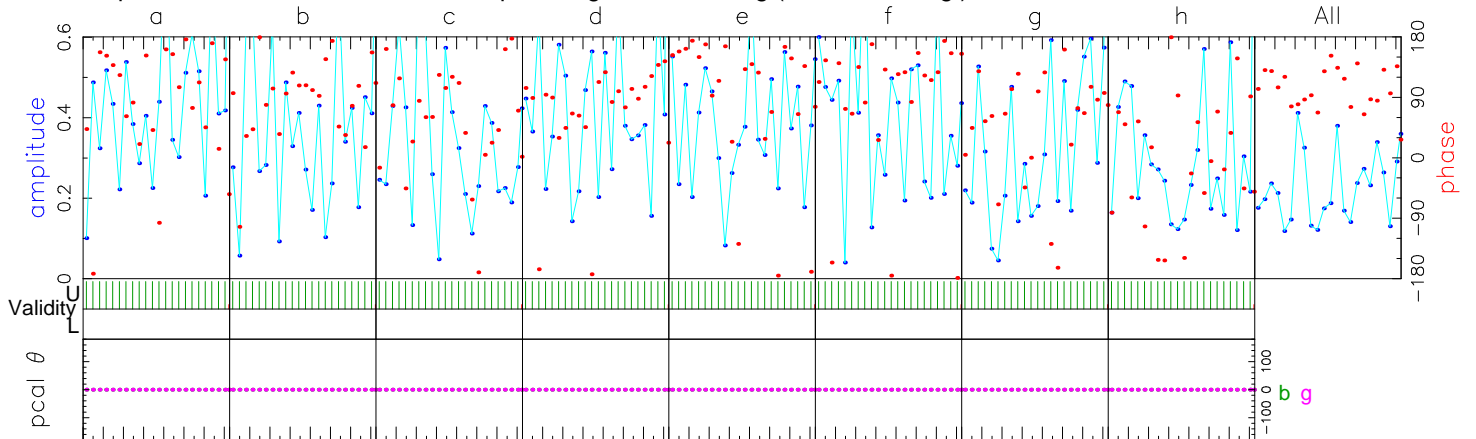


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125144
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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

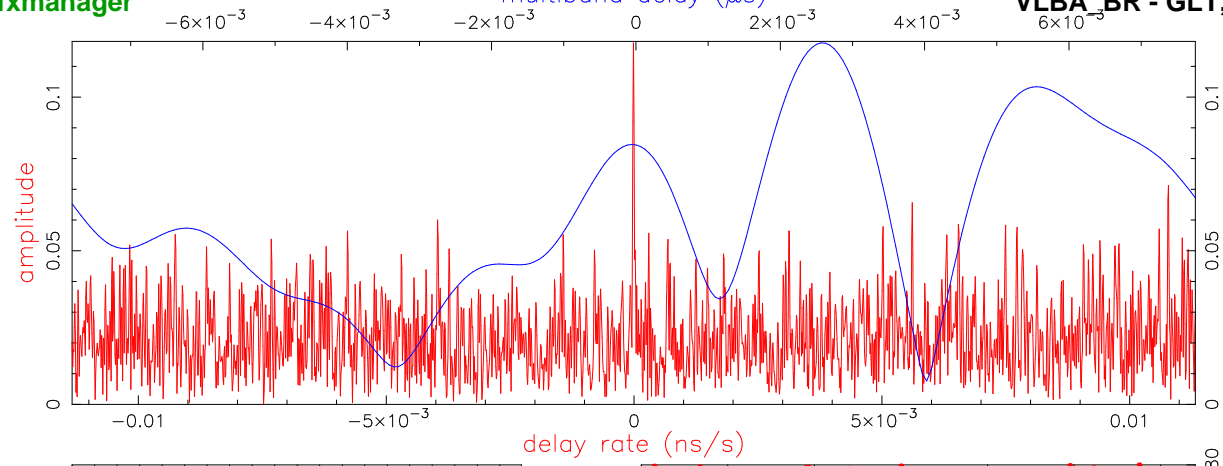


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	131.3	82.8	77.3	101.1	137.7	126.3	95.4	1.7	Phase	106.0
	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.1	Ampl.	0.2
	254.7	255.6	257.3	256.1	256.3	256.3	255.5	251.4	Sbd box	256.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.48494848303E+03		Apriori delay (usec)		-5.48494610971E+03		Resid mbdelay (usec)		-2.37332E-03	+/- 9.7E-05
Sband delay (usec)	-5.48494903921E+03		Apriori clock (usec)		-3.4229527E+00		Resid sbdelay (usec)		-2.92950E-03	+/- 7.7E-04
Phase delay (usec)	-5.48494610629E+03		Apriori clockrate (us/s)		-1.7200000E-07		Resid phdelay (usec)		3.41727E-06	+/- 3.3E-07
Delay rate (us/s)	5.24387235632E-01		Apriori rate (us/s)		5.24387242574E-01		Resid rate (us/s)		-6.94174E-09	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		9.09649477774E-06		Resid phase (deg)		106.0	+/- 10.2

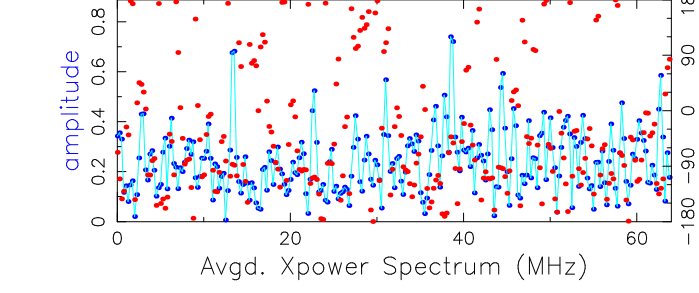
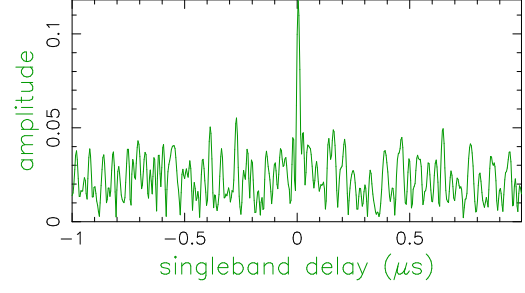
ph/seg (deg) 26.7 24.5 Search (2048X32) 0.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.5 42.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.0 14.4 Inc. seg. avg. 0.205 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.8 25.2 Inc. frq. avg. 0.224 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 52.6 el 37.9 pa -57.6 g: az 132.7 el 61.3 pa -15.6 u,v (fr/asec) -4755.914 -347.152 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bg..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bg.W.47.1X0YRU

multiband delay (μ s)

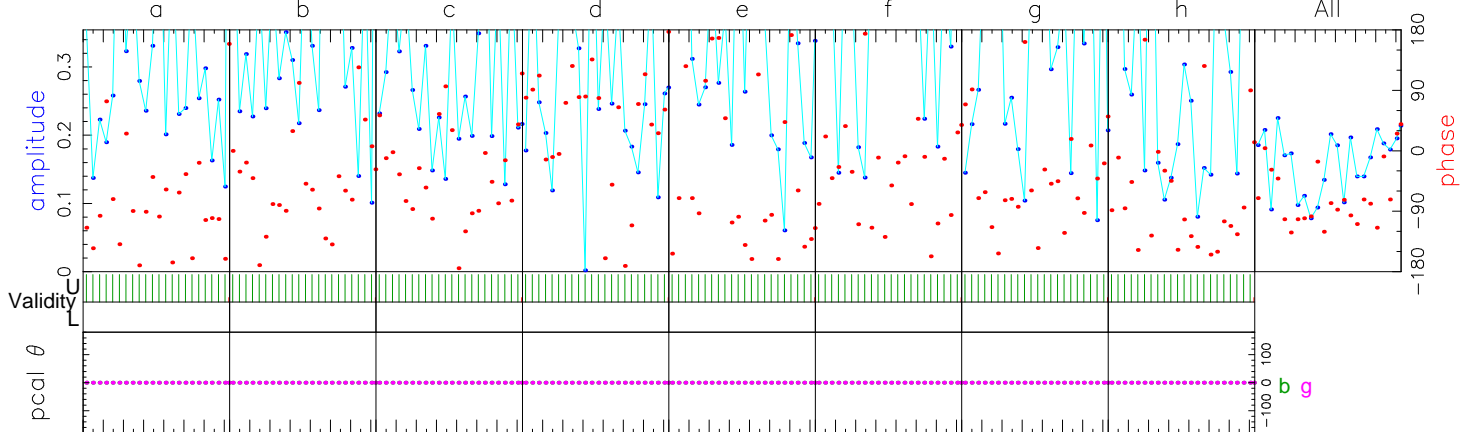


Fringe quality 0
SNR 6.6
Int time 419.821
Amp 0.118
Phase -71.9
PFD 1.0e-02
Delays (us)
SBD 0.004661
MBD 0.002592
Fringe rate (Hz)
-0.000647
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125147
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



Avgd. Xpower Spectrum (MHz)

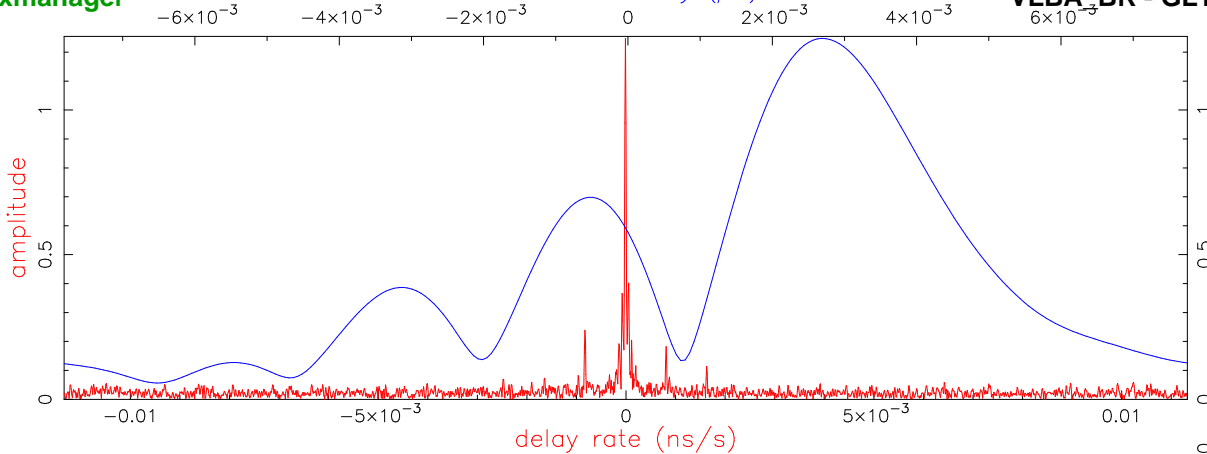
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-105.7	-62.0	-39.1	83.6	-150.7	-33.7	-66.2	-102.9	Phase	-71.9
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	257.2	258.9	259.3	241.9	260.0	257.9	258.0	255.8	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	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.48494351738E+03		Apriori delay (usec)		-5.48494610971E+03		Resid mbdelay (usec)		2.59233E-03	+/- 1.6E-04
Sband delay (usec)	-5.48494144921E+03		Apriori clock (usec)		-3.4229527E+00		Resid sbdelay (usec)		4.66050E-03	+/- 1.3E-03
Phase delay (usec)	-5.48494611203E+03		Apriori clockrate (us/s)		-1.7200000E-07		Resid phdelay (usec)		-2.31879E-06	+/- 5.6E-07
Delay rate (us/s)	5.24387235059E-01		Apriori rate (us/s)		5.24387242574E-01		Resid rate (us/s)		-7.51496E-09	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		9.09649477774E-06		Resid phase (deg)		-71.9	+/- 17.3

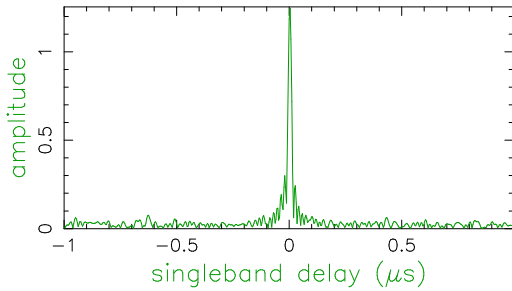
ph/seg (deg) 42.2 41.5 Search (2048X32) 0.113 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 50.5 72.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 76.6 24.5 Inc. seg. avg. 0.125 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 62.8 42.7 Inc. frq. avg. 0.172 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 52.6 el 37.9 pa -57.6 g: az 132.7 el 61.3 pa -15.6 u,v (fr/asec) -4755.914 -347.152 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bg..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bg.W.65.1X0YRU

multiband delay (μ s)

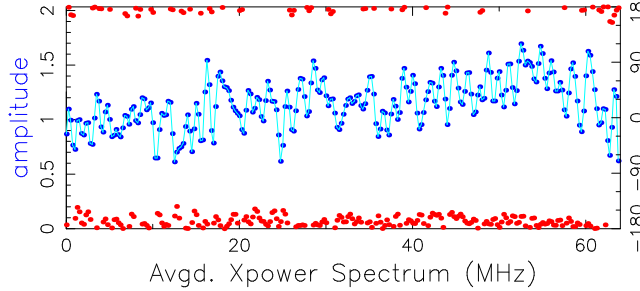


Fringe quality 4

SNR 70.3
 Int time 419.821
 Amp 1.254
 Phase -169.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.002947
 MBD 0.002655
 Fringe rate (Hz)
 -0.000577
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

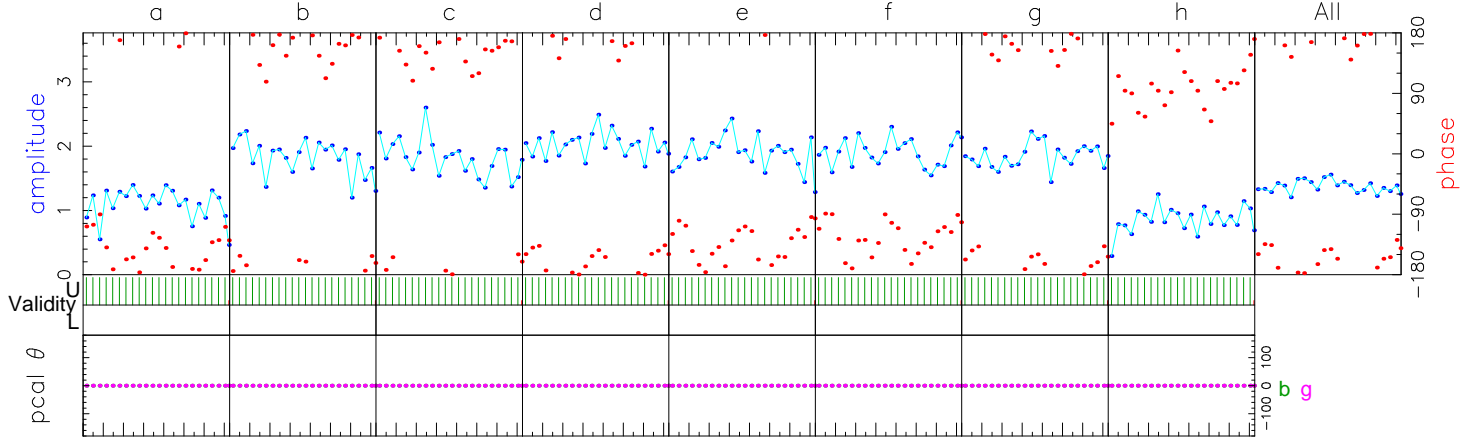


delay rate (ns/s)



Exp. c211c
 Yr:day 16383
 Start 2021:116
 Stop 2021:116
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125136
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-148.7	169.5	159.2	-170.0	-136.6	-124.8	-177.6	97.8	Phase	-169.1
	1.0	1.6	1.6	1.8	1.7	1.7	1.7	0.8	Ampl.	1.5
	255.7	257.6	258.4	257.8	257.9	257.8	257.1	254.8	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.48494345519E+03	Apriori delay (usec)	-5.48494610971E+03	Resid mbdelay (usec)	2.65452E-03	+/-	1.5E-05
Sband delay (usec)	-5.48494316296E+03	Apriori clock (usec)	-3.4229527E+00	Resid sbdelay (usec)	2.94675E-03	+/-	1.2E-04
Phase delay (usec)	-5.48494611516E+03	Apriori clockrate (us/s)	-1.7200000E-07	Resid phdelay (usec)	-5.45431E-06	+/-	5.3E-08
Delay rate (us/s)	5.24387235874E-01	Apriori rate (us/s)	5.24387242574E-01	Resid rate (us/s)	-6.69941E-09	+/-	2.2E-10
Total phase (deg)	-129.7	Apriori accel (us/s/s)	9.09649477774E-06	Resid phase (deg)	-169.1	+/-	1.6

ph/seg (deg)	25.5	RMS	3.9	Theor.	1.254 +/- 0.018	Search (2048X32)	1.184	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	12.2	Search (2048X32)	1.184	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	1.184	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	47.7	Inc. seg. avg.	1.374	Inc. frq. avg.	1.496	Sample rate(MISamp/s): 128	1.374	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.3	Inc. frq. avg.	1.496	u,v (fr/asec)	-4755.914 -347.152	ion window (TEC)	0.00	0.00	simultaneous interpolator				

b: az 52.6 el 37.9 pa -57.6

g: az 132.7 el 61.3 pa -15.6

u,v (fr/asec) -4755.914 -347.152

simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bg..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bg.W.7.1X0YRU

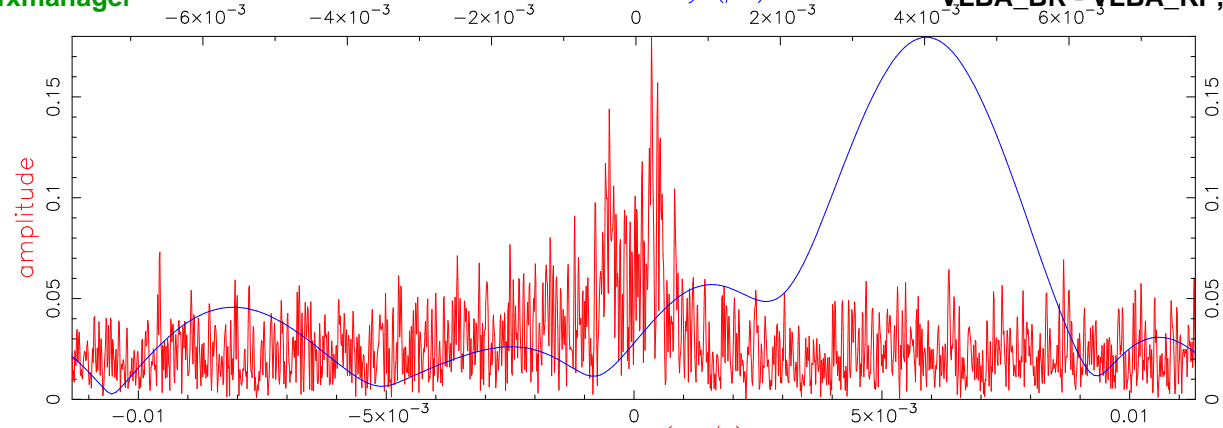
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

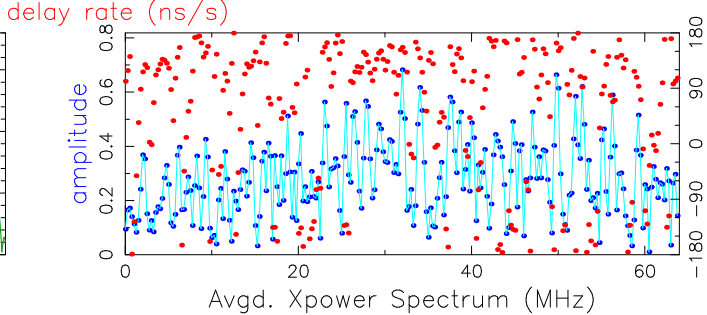
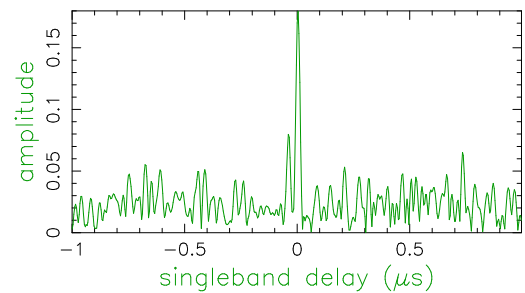
NRAO150.1X0YRU, No0085, bk

VLBA_BR - VLBA_KP, fgroup W, pol RR

multiband delay (μ s)

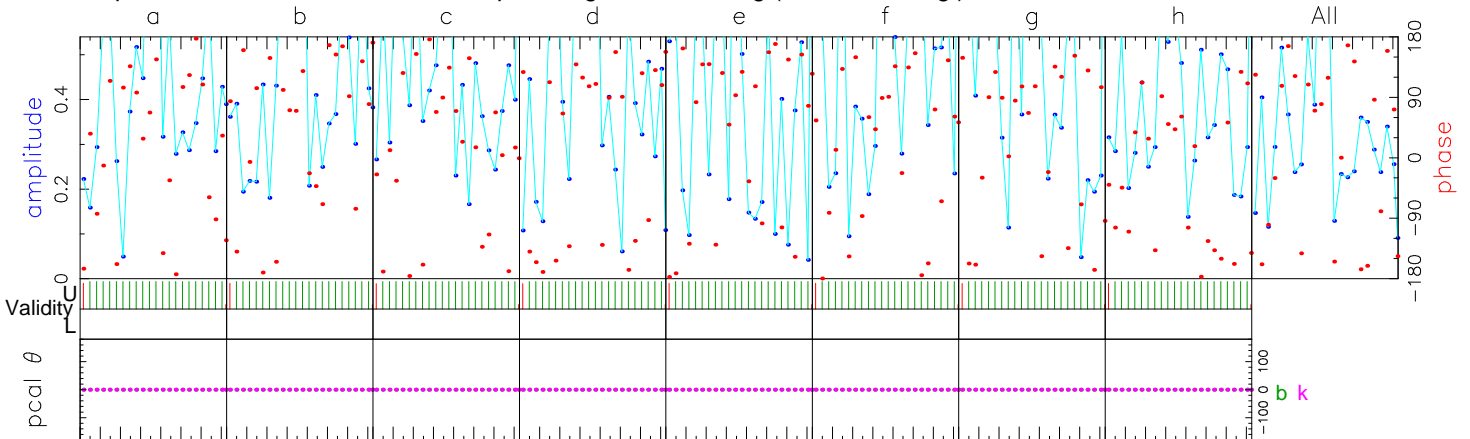


Fringe quality 9
 SNR 10.1
 Int time 418.458
 Amp 0.180
 Phase 128.4
 PFD 3.3e-15
 Delays (us)
 SBD 0.003276
 MBD 0.004016
 Fringe rate (Hz) 0.030342
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build 2021:303:125433
 2021:304:125141
 2021:252:122852
 RA & Dec (J2000) 03h59m29.747267s +50°57'50.161694"



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		
b	0	0	0	0	0	0	0	0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.72672704285E+03	Apriori delay (usec)	1.72672302691E+03	Resid mbdelay (usec)	4.01593E-03	+/-	1.1E-04
Sband delay (usec)	1.72672630266E+03	Apriori clock (usec)	-3.3054600E+00	Resid sbdelay (usec)	3.27575E-03	+/-	8.6E-04
Phase delay (usec)	1.72672303106E+03	Apriori clockrate (us/s)	-9.999998E-08	Resid phdelay (usec)	4.14199E-06	+/-	3.7E-07
Delay rate (us/s)	-1.55593339675E-01	Apriori rate (us/s)	-1.55593691913E-01	Resid rate (us/s)	3.52239E-07	+/-	1.5E-09
Total phase (deg)	322.3	Apriori accel (us/s/s)	9.68437556433E-06	Resid phase (deg)	128.4	+/-	11.4

ph/seg (deg)	RMS 76.0	Theor. 27.3	Amplitude 2048X32	0.177	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	138.8	47.6	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	24.8	16.1	Inc. seg. avg.	0.309	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.6	28.1	Inc. frq. avg.	0.180	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 52.6 el 37.9 pa -57.6 k: az 46.3 el 32.1 pa -77.9 u,v (fr/asec) 1429.268 2126.916 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bk..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bk.W.30.1X0YRU

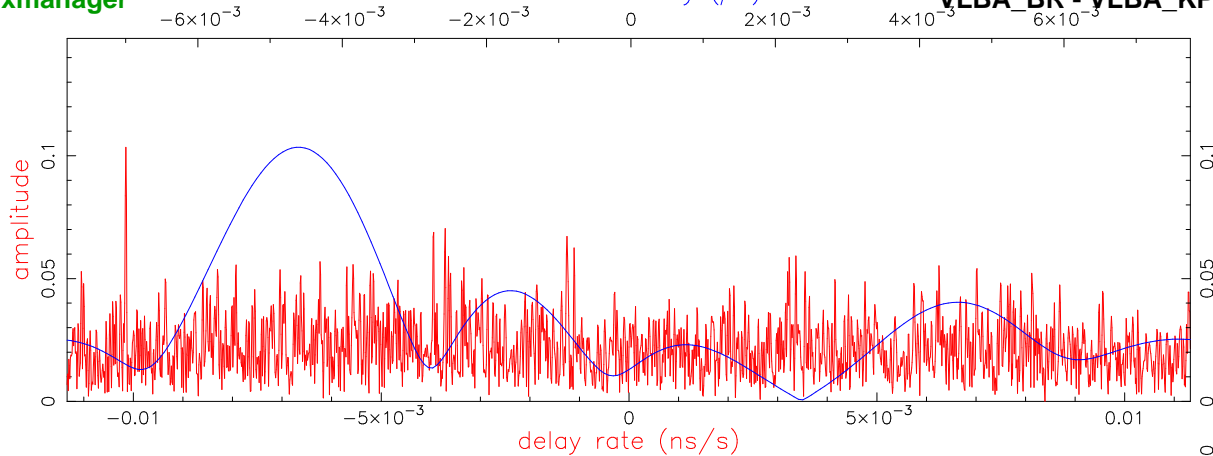
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bk

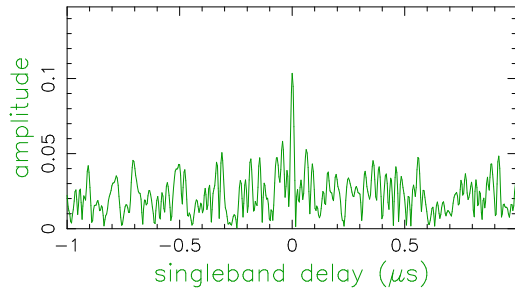
VLBA_BR - VLBA_KP, fgroup W, pol LR

multiband delay (μ s)

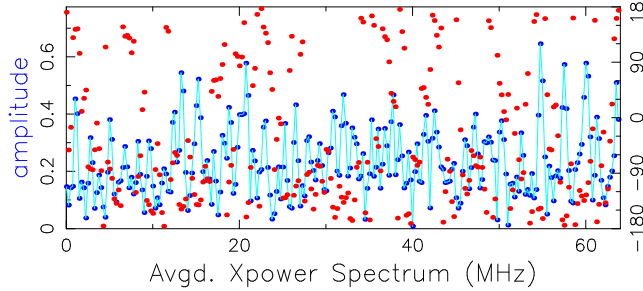


Fringe quality 0

SNR 5.8
 Int time 418.458
 Amp 0.148
 Phase -81.0
 PFD 8.2e-01
 Delays (us)
 SBD 0.000357
 MBD -0.004598
 Fringe rate (Hz)
 -0.875418
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

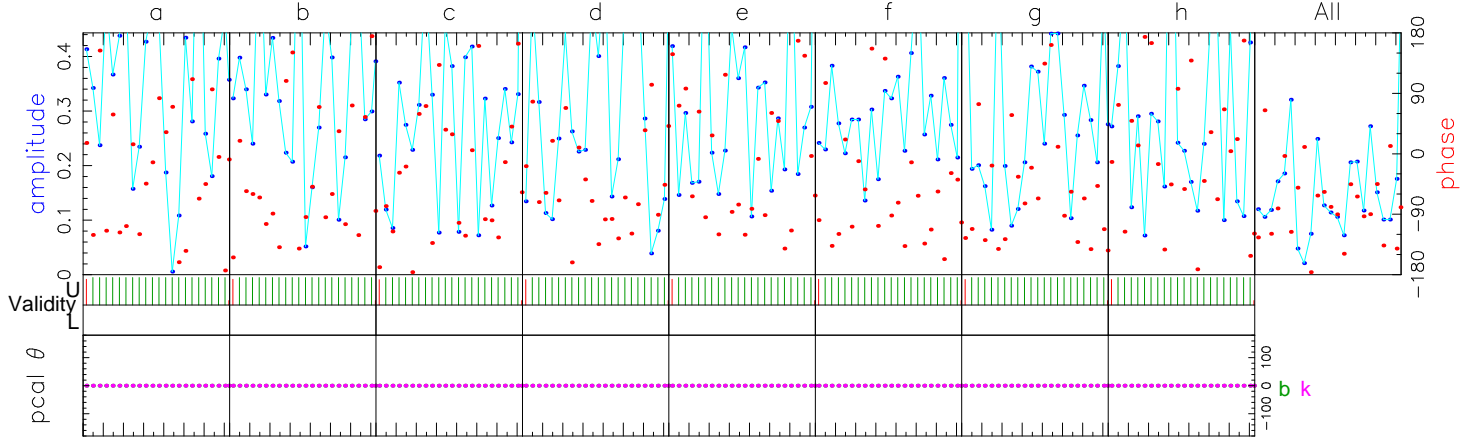


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125145
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-74.4	-96.9	-20.8	-70.0	-94.7	-92.9	-103.7	-35.2	Phase	-81.0
	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1
	483.5	272.2	320.6	464.3	344.3	177.0	257.6	124.8	Sbd box	257.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.72671842861E+03		Apriori delay (usec)		1.72672302691E+03		Resid mbdelay (usec)		-4.59830E-03	+/- 1.9E-04
Sband delay (usec)	1.72672338341E+03		Apriori clock (usec)		-3.3054600E+00		Resid sbdelay (usec)		3.56500E-04	+/- 1.5E-03
Phase delay (usec)	1.72672302430E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		-2.61114E-06	+/- 6.4E-07
Delay rate (us/s)	-1.55603854646E-01		Apriori rate (us/s)		-1.55593691913E-01		Resid rate (us/s)		-1.01627E-05	+/- 2.6E-09
Total phase (deg)	112.9		Apriori accel (us/s/s)		9.68437556433E-06		Resid phase (deg)		-81.0	+/- 19.8

	RMS	Theor.	Amplitude	0.148 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	57.9	47.4	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	86.3	82.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	34.1	28.0	Inc. seg. avg.	0.156	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	35.2	48.8	Inc. frq. avg.	0.145	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 52.6 el 37.9 pa -57.6 k: az 46.3 el 32.1 pa -77.9 u,v (fr/asec) 1429.268 2126.916 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bk..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bk.W.50.1X0YRU

Mk4/DiFX fourfit 3.21 rev 2937

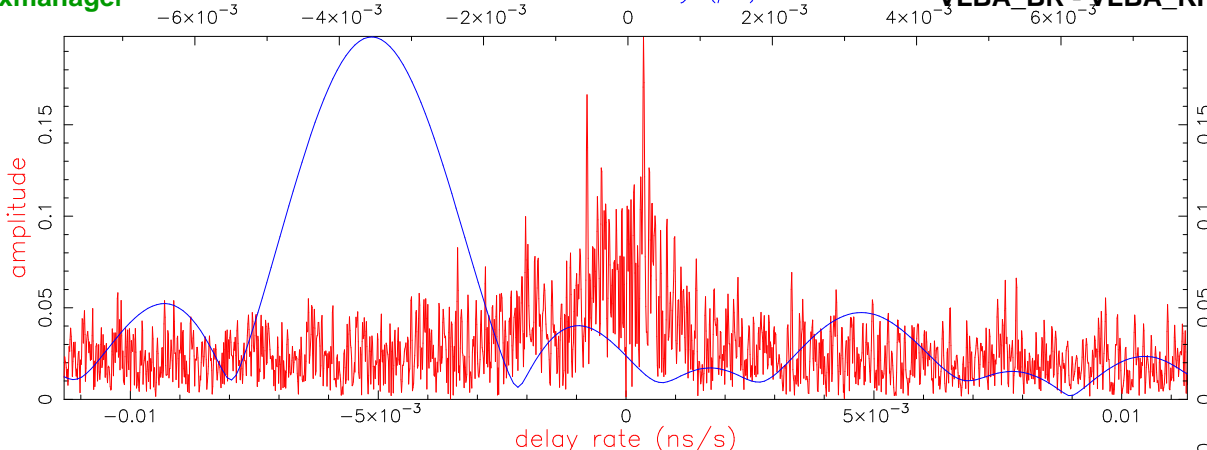
fxmanager

NRAO150.1X0YRU, No0085, bk

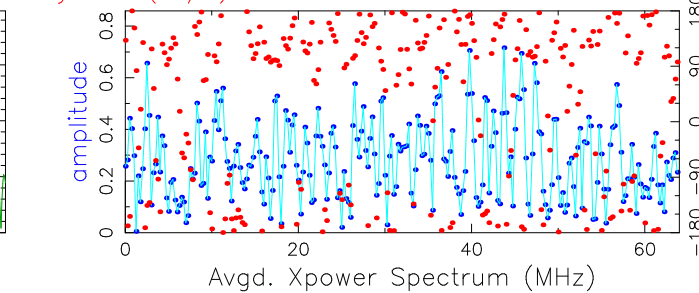
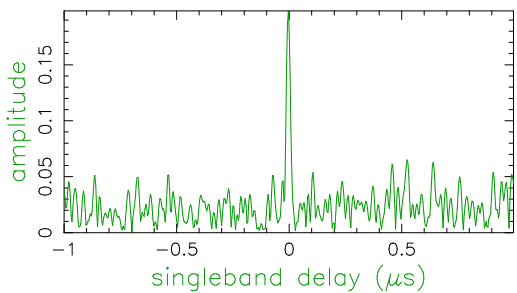
VLBA_BR - VLBA_KP, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 9

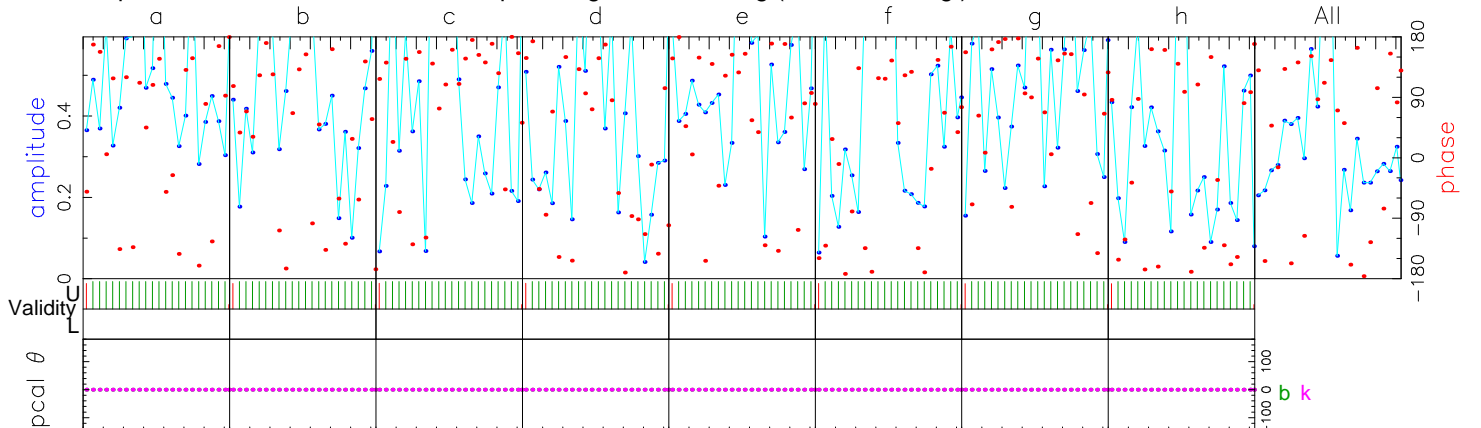


SNR 11.1
 Int time 418.457
 Amp 0.198
 Phase 139.8
 PFD 7.0e-20
 Delays (us)
 SBD -0.004370
 MBD -0.003556
 Fringe rate (Hz)
 0.030557
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125136
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.72671947044E+03		Apriori delay (usec)		1.72672302691E+03		Resid mbdelay (usec)		-3.55647E-03	+/- 9.8E-05
Sband delay (usec)	1.72671865716E+03		Apriori clock (usec)		-3.3054600E+00		Resid sbdelay (usec)		-4.36975E-03	+/- 7.8E-04
Phase delay (usec)	1.72672303142E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		4.50805E-06	+/- 3.3E-07
Delay rate (us/s)	-1.55593337174E-01		Apriori rate (us/s)		-1.55593691913E-01		Resid rate (us/s)		3.54739E-07	+/- 1.4E-09
Total phase (deg)	333.6		Apriori accel (us/s/s)		9.68437556433E-06		Resid phase (deg)		139.8	+/- 10.3

ph/seg (deg) 70.2 24.8 Amplitude 0.198 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 122.7 43.3 Search (2048X32) 0.193 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.2 14.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 15.6 25.5 Inc. seg. avg. 0.316 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.193 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 52.6 el 37.9 pa -57.6 k: az 46.3 el 32.1 pa -77.9 u,v (fr/asec) 1429.268 2126.916 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bk..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bk.W.6.1X0YRU

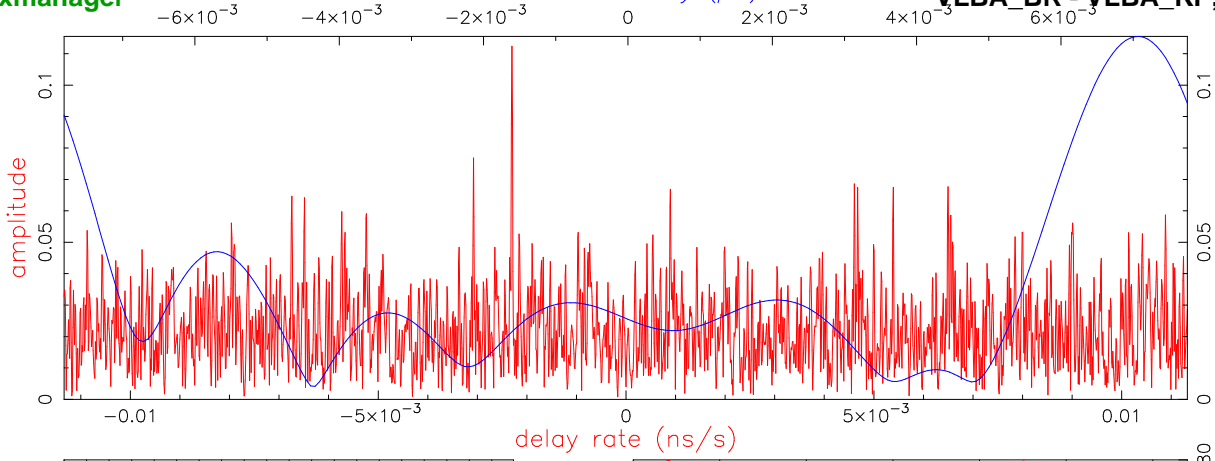
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bk

VLBA_BR - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)



Fringe quality 0

SNR 6.4

Int time 418.457

Amp 0.116

Phase 37.1

PFD 5.6e-02

Delays (us)

SBD 0.904886

MBD -0.008301

Fringe rate (Hz)

-0.199039

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c211c

Exper # 16383

Yr:day 2021:116

Start 160000.00

Stop 160659.84

FRT 160330.00

Corr/FF/build

2021:303:125433

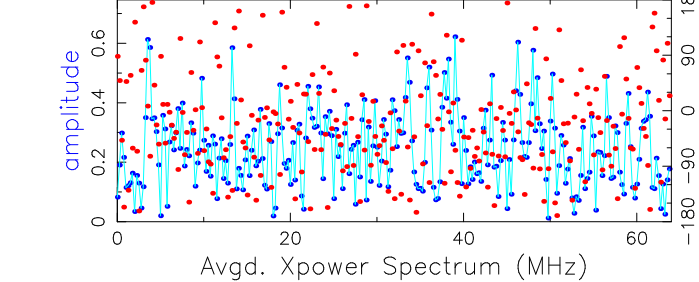
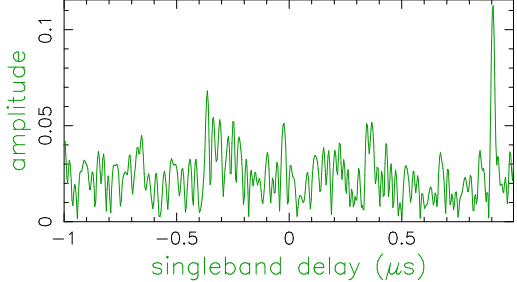
2021:304:125148

2021:252:122852

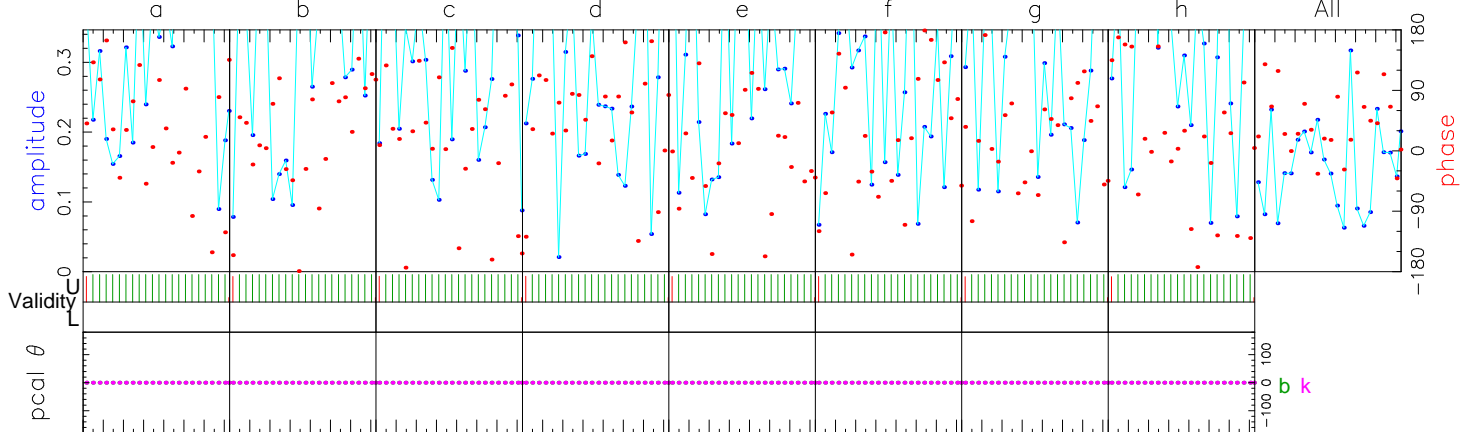
RA & Dec (J2000)

03h59m29.747267s

+50°57'50.161694"



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
	33.5	52.2	61.6	71.4	14.0	35.2	4.1	27.0	Phase	37.1
	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	46.2	474.1	200.3	489.0	287.1	150.7	352.0	127.3	Sbd box	488.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.72762097613E+03		Apriori delay (usec)		1.72672302691E+03		Resid mbdelay (usec)		-8.30078E-03	+/- 1.7E-04
Sband delay (usec)	1.72762791316E+03		Apriori clock (usec)		-3.3054600E+00		Resid sbdelay (usec)		9.04886E-01	+/- 1.4E-03
Phase delay (usec)	1.72672302811E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		1.19500E-06	+/- 5.8E-07
Delay rate (us/s)	-1.55596002565E-01		Apriori rate (us/s)		-1.55593691913E-01		Resid rate (us/s)		-2.31065E-06	+/- 2.4E-09
Total phase (deg)	230.9		Apriori accel (us/s/s)		9.68437556433E-06		Resid phase (deg)		37.1	+/- 18.0

ph/seg (deg) 48.3 43.3 Search (2048X32) 0.109 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 64.8 75.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 25.0 25.5 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 33.9 44.5 Inc. frq. avg. 0.113 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

b: az 52.6 el 37.9 pa -57.6 k: az 46.3 el 32.1 pa -77.9 u,v (fr/asec) 1429.268 2126.916 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bk..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bk.W.70.1X0YRU

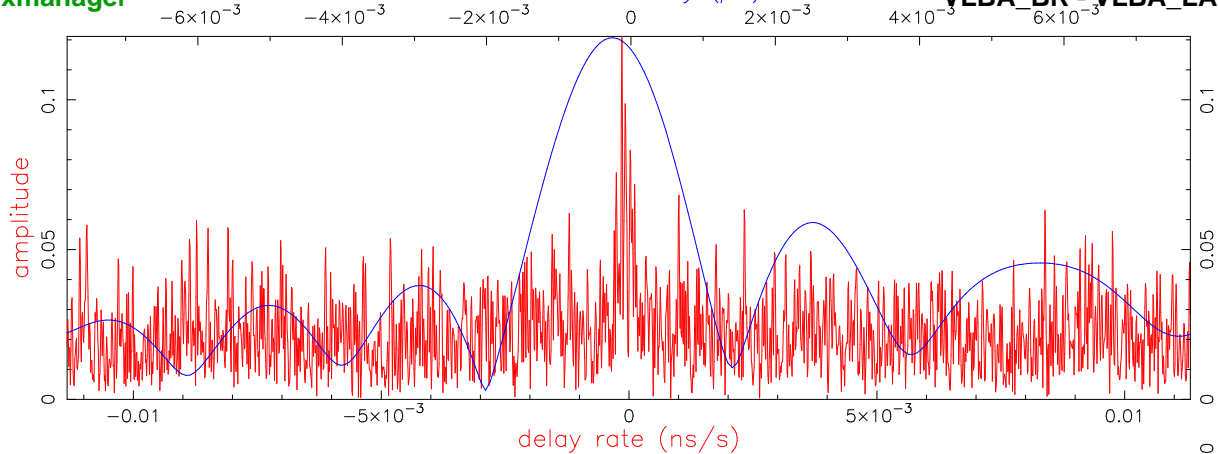
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bl

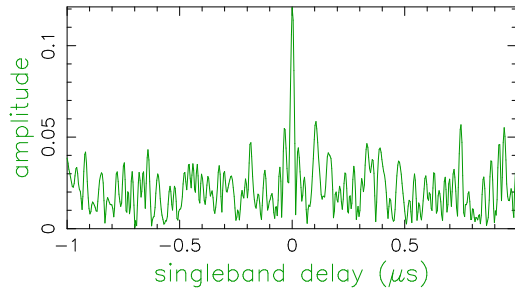
VLBA_BR - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)

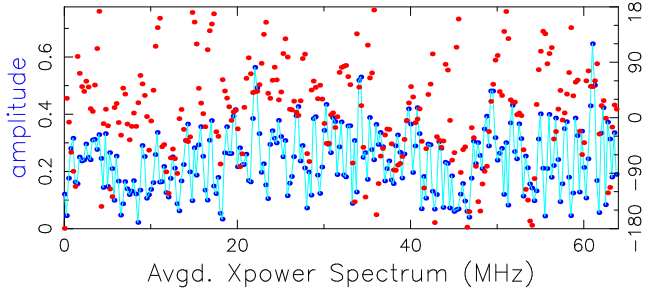


Fringe quality 0

SNR 6.8
Int time 419.771
Amp 0.121
Phase 33.4
PFD 3.3e-03
Delays (us)
SBD 0.000777
MBD -0.000237
Fringe rate (Hz)
-0.012592
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

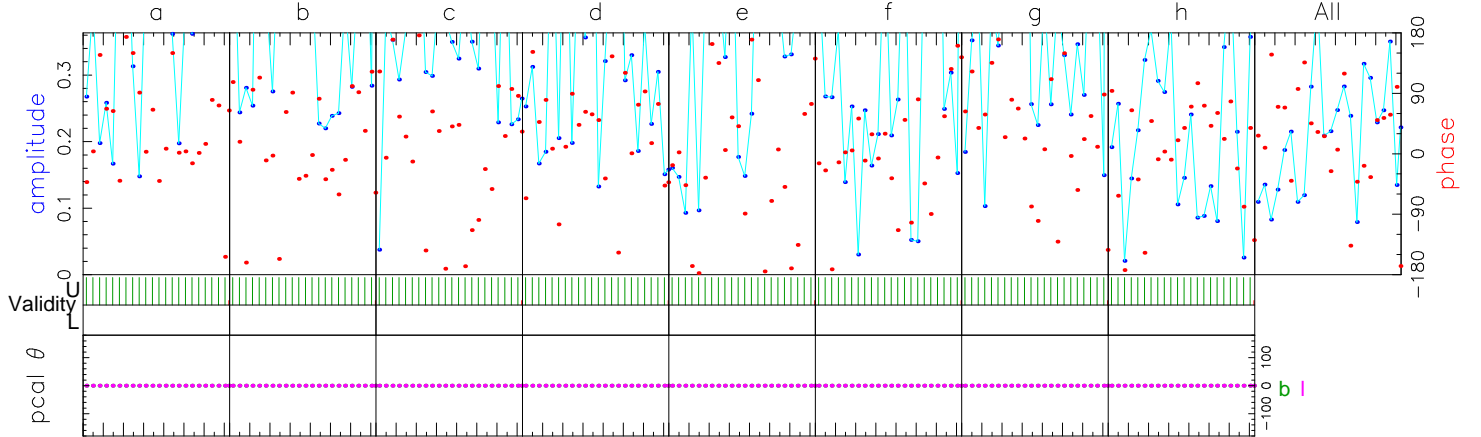


delay rate (ns/s)



Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125137
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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



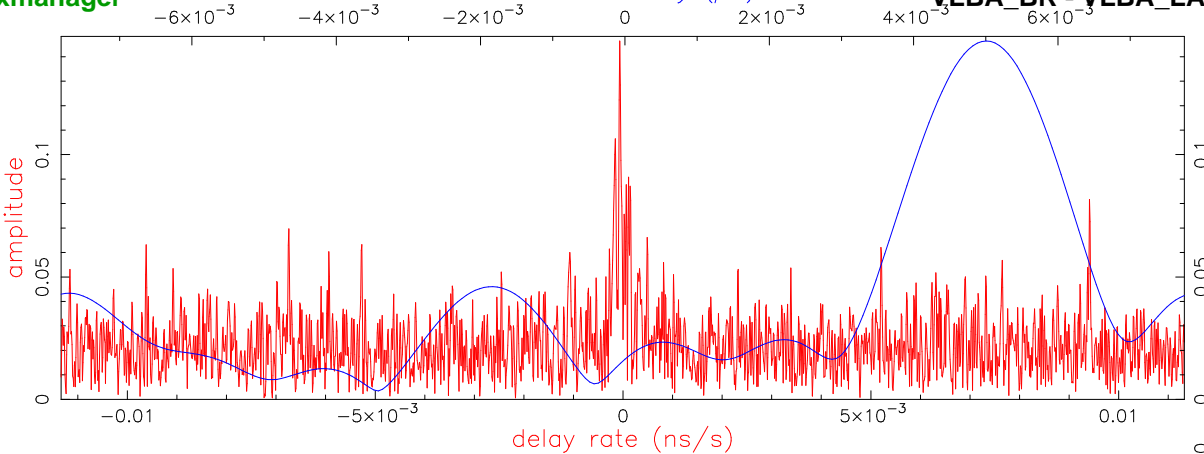
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	0	0	0	0	0	0	0	0	APs used	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.96857285708E+01		Apriori delay (usec)		-3.96854917582E+01		Resid mbdelay (usec)		-2.36813E-04	+/- 1.6E-04
Sband delay (usec)	-3.96847142582E+01		Apriori clock (usec)		-3.5906219E-01		Resid sbdelay (usec)		7.77500E-04	+/- 1.3E-03
Phase delay (usec)	-3.96854906807E+01		Apriori clockrate (us/s)		1.8600001E-07		Resid phdelay (usec)		1.07748E-06	+/- 5.4E-07
Delay rate (us/s)	-9.93774458461E-02		Apriori rate (us/s)		-9.93772996693E-02		Resid rate (us/s)		-1.46177E-07	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.42419445453E-05		Resid phase (deg)		33.4	+/- 16.9

ph/seg (deg) 67.0 40.5 Search (2048X32) 0.116 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 104.2 70.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.8 23.9 Inc. seg. avg. 0.169 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.0 41.7 Inc. frq. avg. 0.121 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 52.6 el 37.9 pa -57.6 l: az 49.2 el 38.0 pa -78.3 u,v (fr/asec) 925.760 2265.786 ion window (TEC) 0.00 0.00
 simultaneous interpolator

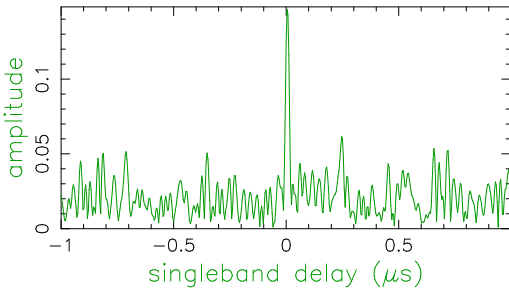
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bl.1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bl.W.13.1X0YRU

multiband delay (μ s)

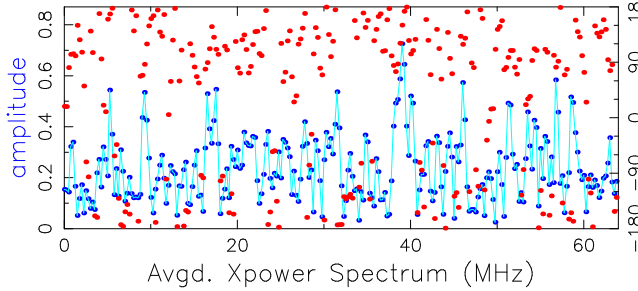
Fringe quality 9



SNR 8.3
 Int time 419.771
 Amp 0.148
 Phase 138.7
 PFD 3.4e-08
 Delays (us)
 SBD 0.005390
 MBD 0.005010
 Fringe rate (Hz) -0.005794
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

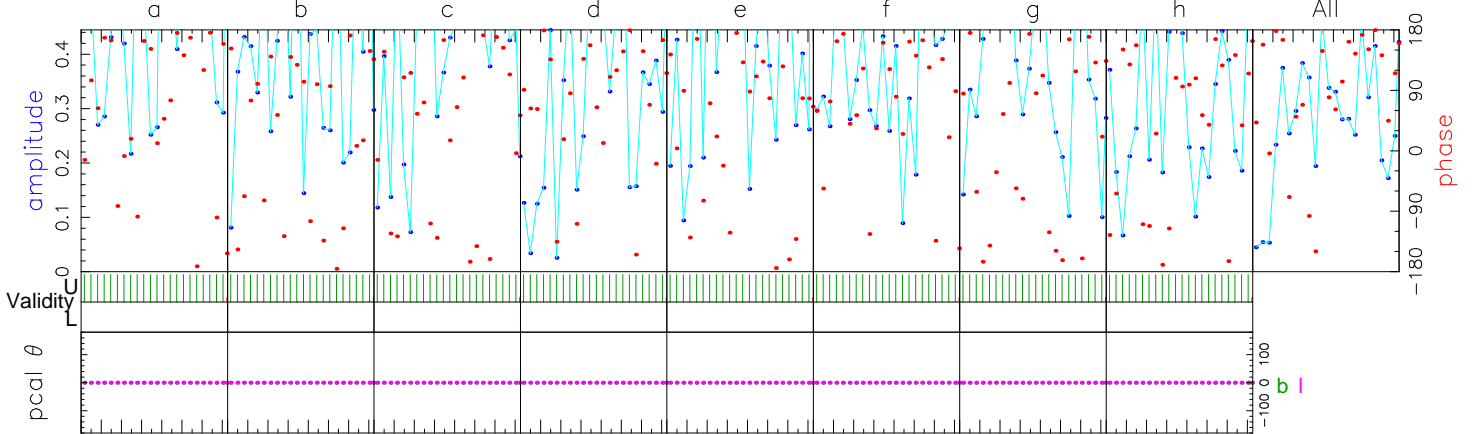


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125142
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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	0	0	0	0	0	0	0	0	APs used	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.96804820659E+01		Apriori delay (usec)		-3.96854917582E+01		Resid mbdelay (usec)		5.00969E-03	+/- 1.3E-04
Sband delay (usec)	-3.96801020082E+01		Apriori clock (usec)		-3.5906219E-01		Resid sbdelay (usec)		5.38975E-03	+/- 1.0E-03
Phase delay (usec)	-3.96854872843E+01		Apriori clockrate (us/s)		1.8600001E-07		Resid phdelay (usec)		4.47391E-06	+/- 4.4E-07
Delay rate (us/s)	-9.93773669355E-02		Apriori rate (us/s)		-9.93772996693E-02		Resid rate (us/s)		-6.72662E-08	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		1.42419445453E-05		Resid phase (deg)		138.7	+/- 13.8

	RMS	Theor.	Amplitude	0.148 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	71.3	33.1	Search (2048X32)	0.145	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	117.2	57.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	20.8	19.5	Inc. seg. avg.	0.236	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	17.8	34.0	Inc. frq. avg.	0.146	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 l: az 49.2 el 38.0 pa -78.3 u,v (fr/asec) 925.760 2265.786 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bl.1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bl.W.36.1X0YRU

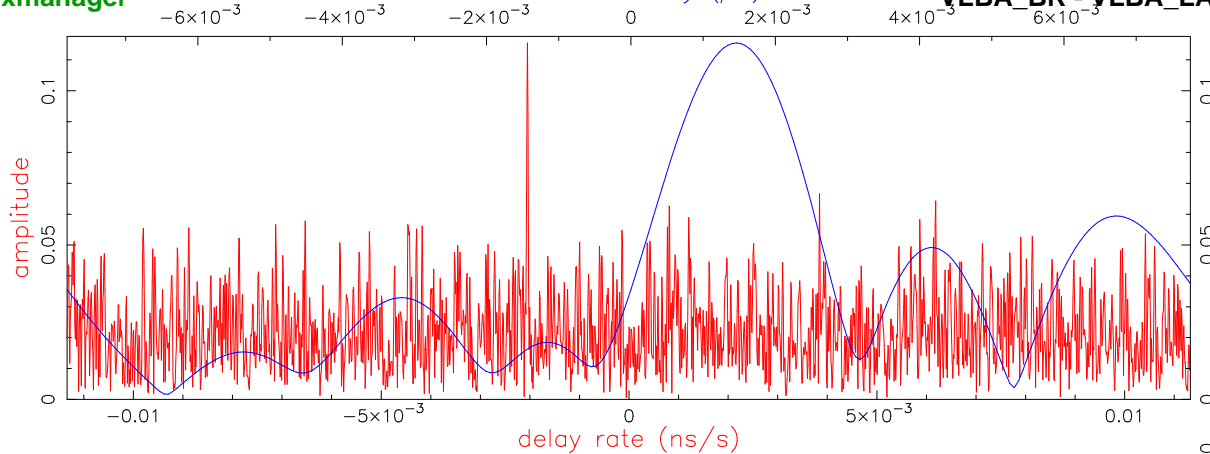
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bl

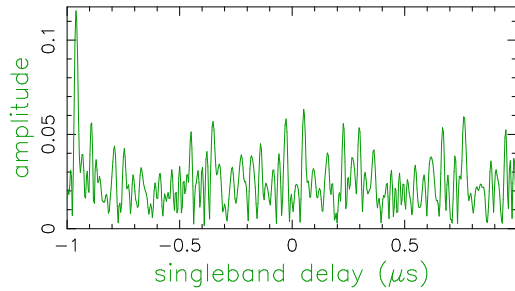
VLBA_BR - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)

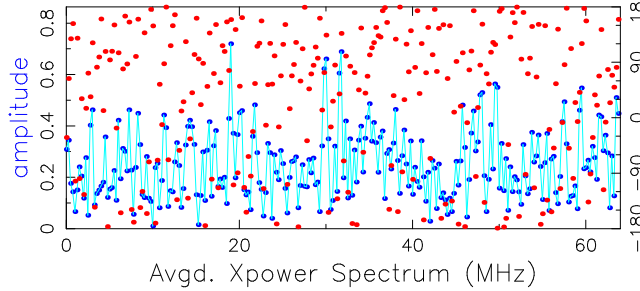


Fringe quality 0

SNR 6.5
 Int time 419.771
 Amp 0.118
 Phase -155.1
 PFD 2.2e-02
 Delays (us)
 SBD -0.960021
 MBD 0.001469
 Fringe rate (Hz)
 -0.176519
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

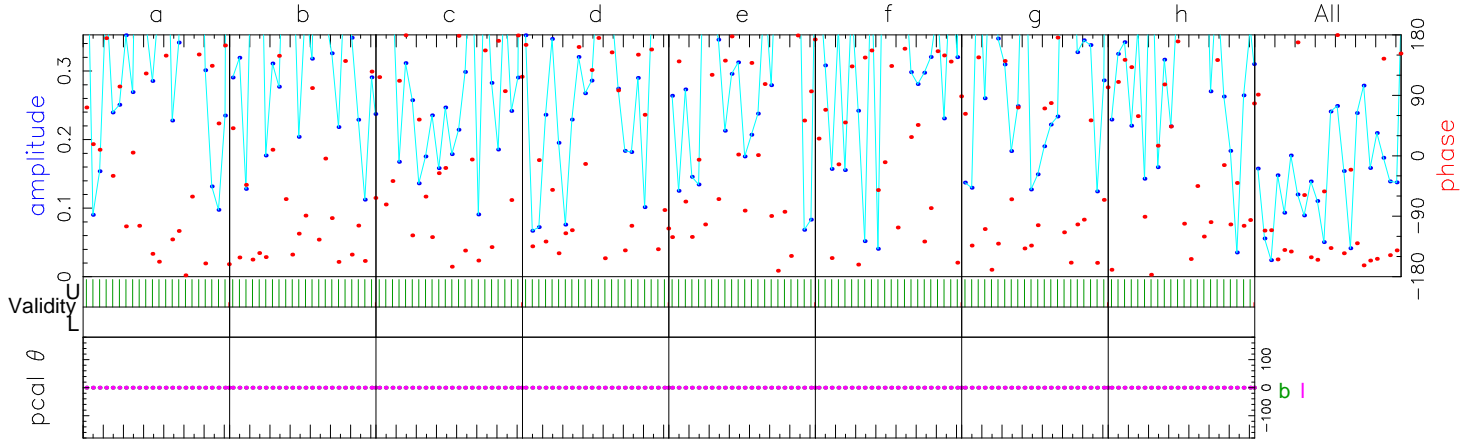


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125146
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-173.8	-134.4	-132.3	-159.8	-144.0	136.3	-149.6	-149.5	Phase	-155.1
	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	35.2	11.3	164.8	167.6	220.6	304.4	228.2	367.4	Sbd box	11.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.06527732567E+01		Apriori delay (usec)		-3.96854917582E+01		Resid mbdelay (usec)		1.46850E-03	+/- 1.7E-04
Sband delay (usec)	-4.06455127582E+01		Apriori clock (usec)		-3.5906219E-01		Resid sbdelay (usec)		-9.60021E-01	+/- 1.3E-03
Phase delay (usec)	-3.96854967584E+01		Apriori clockrate (us/s)		1.8600001E-07		Resid phdelay (usec)		-5.00021E-06	+/- 5.7E-07
Delay rate (us/s)	-9.93793488817E-02		Apriori rate (us/s)		-9.93772996693E-02		Resid rate (us/s)		-2.04921E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.42419445453E-05		Resid phase (deg)		-155.1	+/- 17.6

	RMS	Theor.	Amplitude	0.118 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	53.1	42.3	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.1	73.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	32.2	24.9	Inc. seg. avg.	0.117	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	34.8	43.5	Inc. frq. avg.	0.115	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 l: az 49.2 el 38.0 pa -78.3 u,v (fr/asec) 925.760 2265.786 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bl.1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bl.W.59.1X0YRU

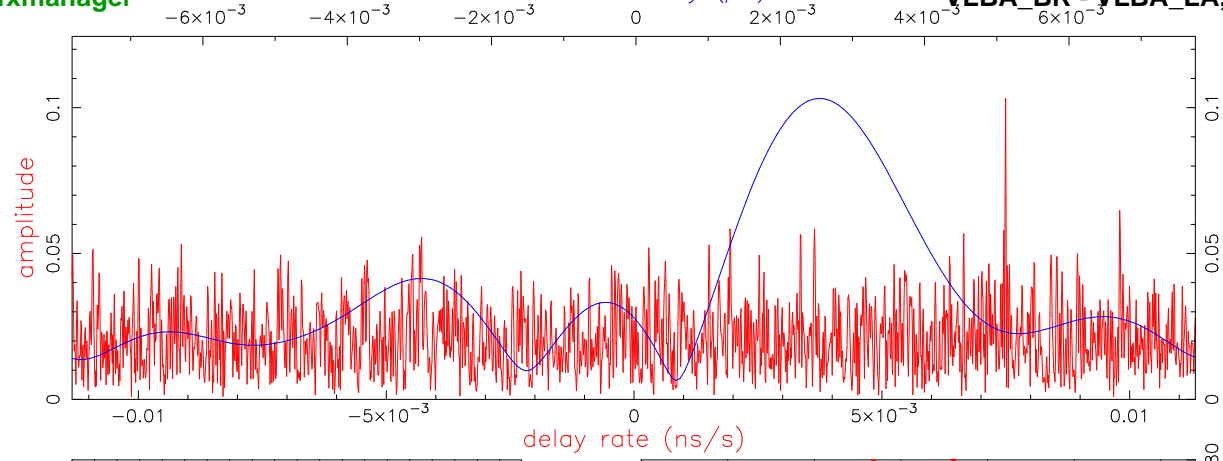
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bl

VLBA_BR - VLBA_LA, fgroup W, pol RL

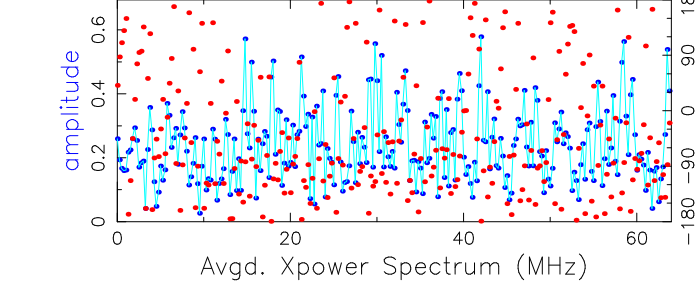
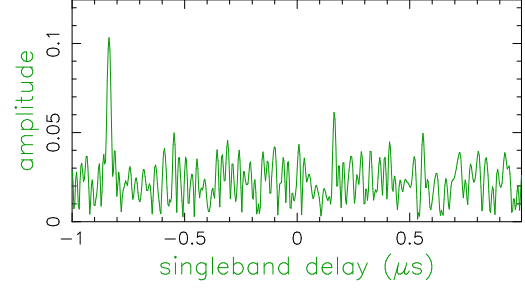
multiband delay (μ s)



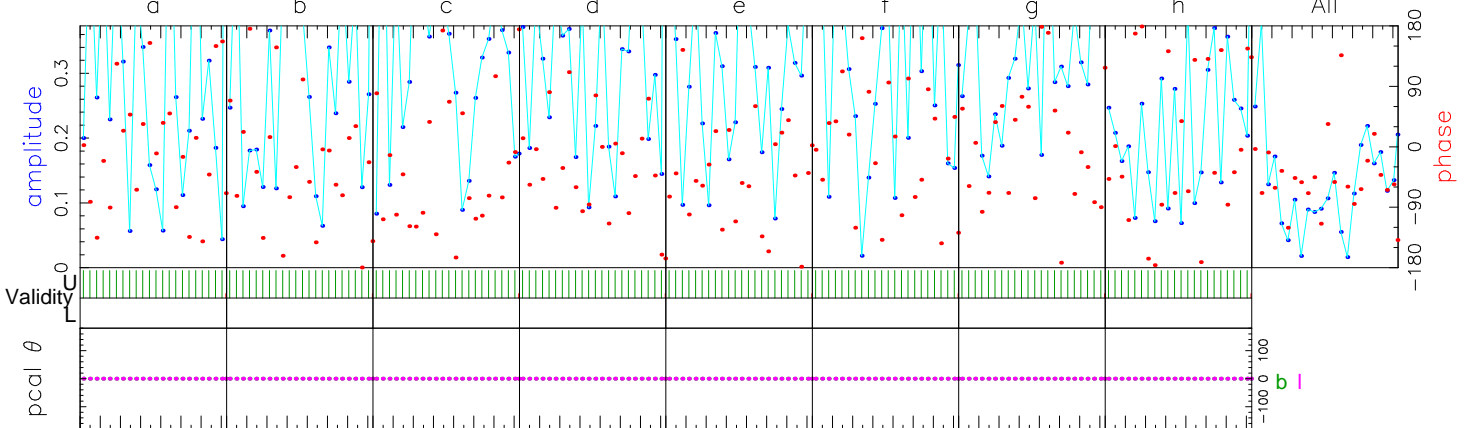
Fringe quality 0

SNR 5.8
 Int time 419.771
 Amp 0.124
 Phase -45.5
 PFD 8.4e-01
 Delays (us)
 SBD -0.836108
 MBD 0.002549
 Fringe rate (Hz)
 0.646502
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125150
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



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
	-22.8	-39.0	-99.3	-31.4	-48.3	-3.8	-29.9	-83.8	Phase	-45.5
	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	64.1	286.2	369.2	45.1	42.9	380.5	30.4	44.8	Sbd box	43.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

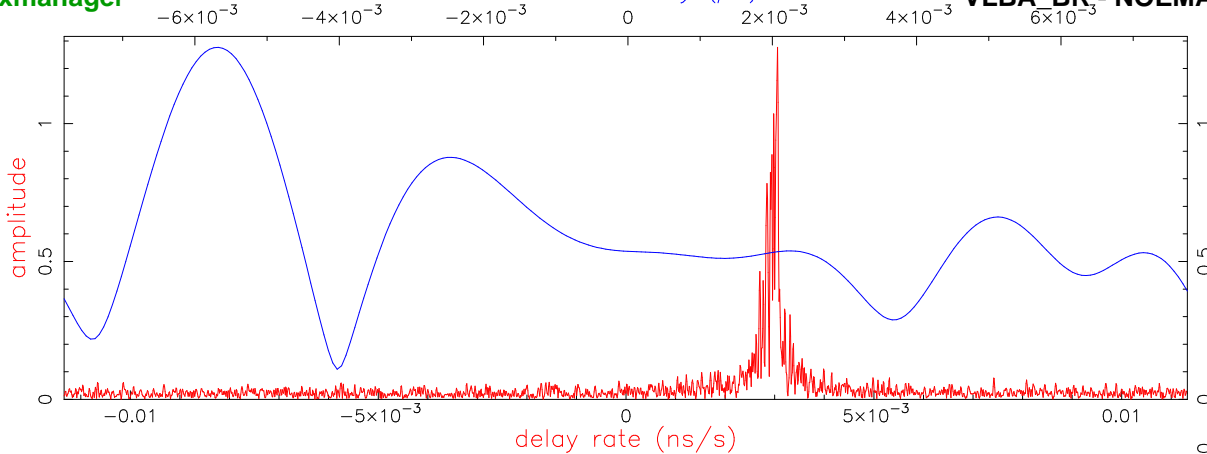
Group delay (usec)(sbd)	-4.05266925480E+01	Apriori delay (usec)	-3.96854917582E+01	Resid mbdelay (usec)	2.54921E-03	+/-	1.9E-04
Sband delay (usec)	-4.05215995082E+01	Apriori clock (usec)	-3.5906219E-01	Resid sbdelay (usec)	-8.36108E-01	+/-	1.5E-03
Phase delay (usec)	-3.96854932244E+01	Apriori clockrate (us/s)	1.8600001E-07	Resid phdelay (usec)	-1.46625E-06	+/-	6.4E-07
Delay rate (us/s)	-9.93697944243E-02	Apriori rate (us/s)	-9.93772996693E-02	Resid rate (us/s)	7.50524E-06	+/-	2.6E-09
Total phase (deg)	-139.1	Apriori accel (us/s/s)	1.42419445453E-05	Resid phase (deg)	-45.5	+/-	19.8

ph/seg (deg)	52.8	Theor.	47.5	Amplitude	0.124 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	82.1	Search (2048X32)	0.103	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	34.4	Inc. seg. avg.	0.118	Inc. frq. avg.	0.127	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	36.1	Inc. frq. avg.	0.127			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 52.6 el 37.9 pa -57.6 l: az 49.2 el 38.0 pa -78.3 u, v (fr/asec) 925.760 2265.786 simultaneous interpolator

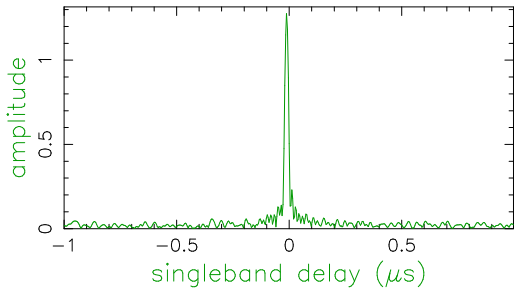
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bl.1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bl.W.78.1X0YRU

multiband delay (μ s)

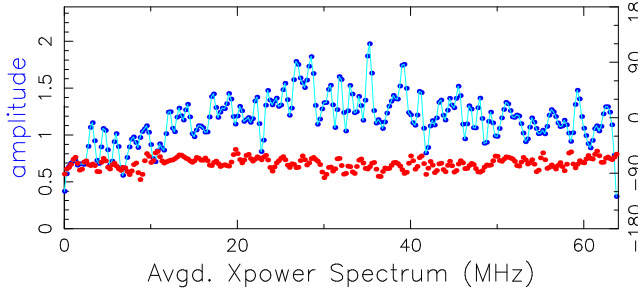


Fringe quality 1

SNR 71.6
 Int time 419.821
 Amp 1.316
 Phase -140.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.011411
 MBD -0.005680
 Fringe rate (Hz)
 0.263776
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

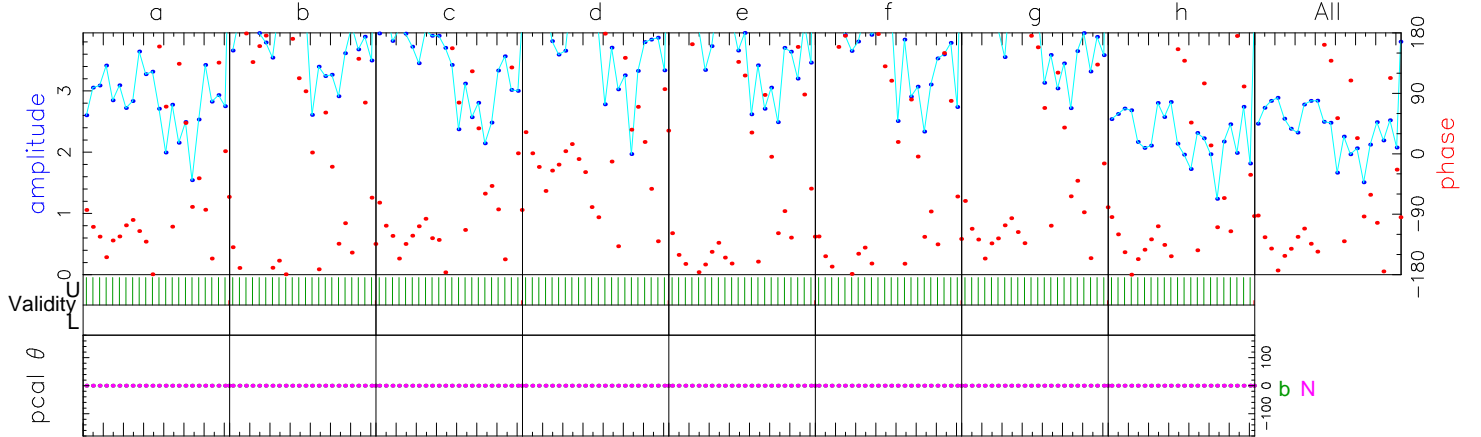


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125137
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-123.1	174.7	-122.9	-16.6	-161.9	-172.2	-122.0	-143.5	Phase	-140.2
	1.6	2.0	1.9	2.0	2.1	2.0	2.1	1.2	Ampl.	1.9
	252.5	254.2	254.9	254.6	254.6	254.6	253.8	251.5	Sbd box	254.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

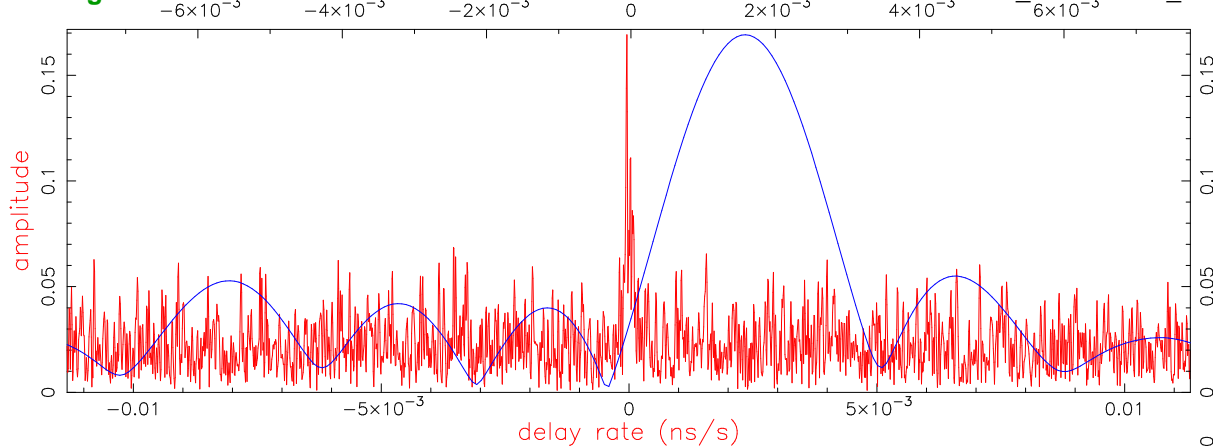
Group delay (usec)(sbd)	-5.55206863568E+03	Apriori delay (usec)	-5.55206295606E+03	Resid mbdelay (usec)	-5.67962E-03	+/-	1.5E-05
Sband delay (usec)	-5.55207436731E+03	Apriori clock (usec)	1.0324583E+01	Resid sbdelay (usec)	-1.14112E-02	+/-	1.2E-04
Phase delay (usec)	-5.55206296059E+03	Apriori clockrate (us/s)	-8.4199999E-06	Resid phdelay (usec)	-4.52083E-06	+/-	5.2E-08
Delay rate (us/s)	1.10932395957E+00	Apriori rate (us/s)	1.10932089740E+00	Resid rate (us/s)	3.06218E-06	+/-	2.1E-10
Total phase (deg)	-152.9	Apriori accel (us/s/s)	3.32528999082E-05	Resid phase (deg)	-140.2	+/-	1.6

ph/seg (deg)	73.1	RMS	3.8	Theor.	3.8	Amplitude	1.316 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	92.7	Search (2048X32)	1.237	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	57.4	Inc. seg. avg.	2.463	Inc. frq. avg.	1.865	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	47.6	Inc. frq. avg.	1.865	Data rate (Mbit/s): 2048		Sample rate (MSamp/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

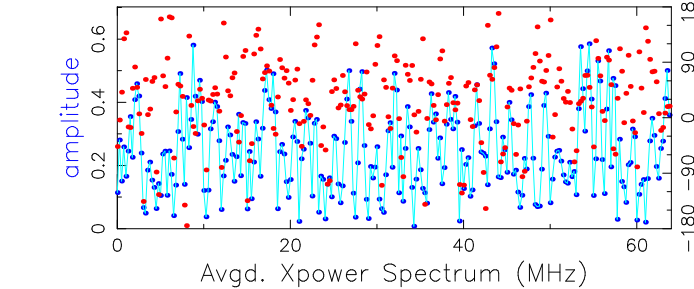
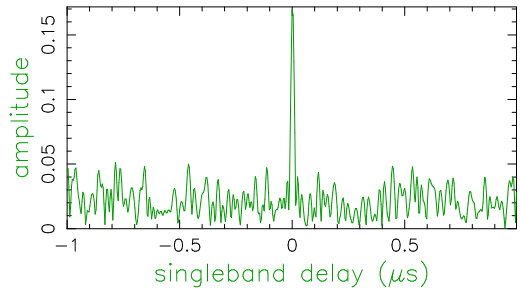
b: az 52.6 el 37.9 pa -57.6 N: az 298.0 el 62.4 pa 88.0 u,v (fr/asec) -10045.903 3554.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bN..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bN.W.11.1X0YRU

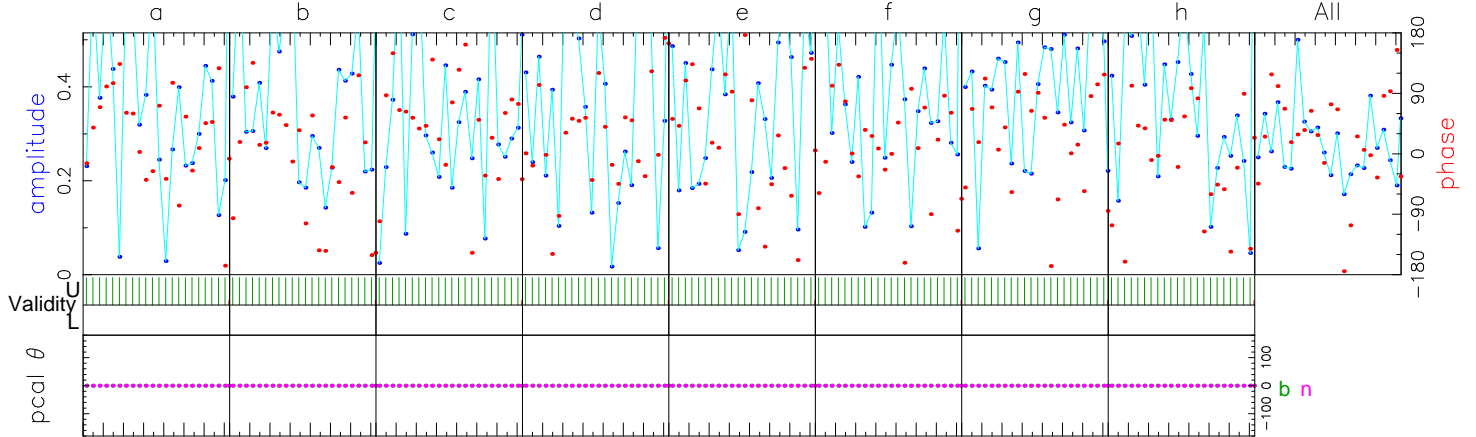
multiband delay (μ s)



Fringe quality 9
SNR 9.6
Int time 419.824
Amp 0.172
Phase 40.8
PFD 2.7e-13
Delays (us)
SBD 0.001494
MBD 0.001603
Fringe rate (Hz) -0.004238
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125137
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



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



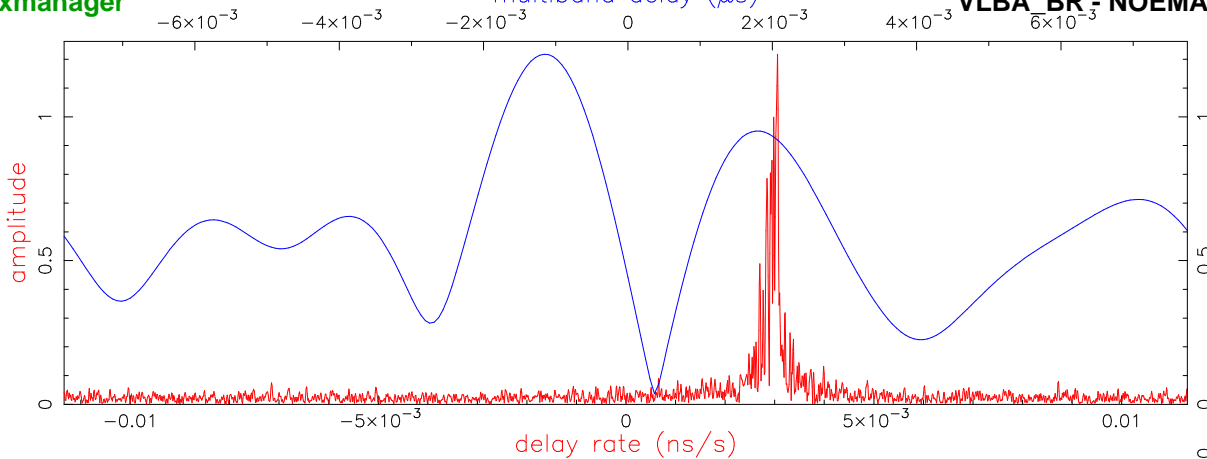
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	0	0	0	0	0	0	0	0	Ampl.	0.2
n	0	0	0	0	0	0	0	0	Sbd box	257.4
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	-3.38403211822E+03	Apriori delay (usec)	-3.38403372162E+03	Resid mbdelay (usec)	1.60340E-03	+/-	1.1E-04
Sband delay (usec)	-3.38403222737E+03	Apriori clock (usec)	-8.4608440E+00	Resid sbdelay (usec)	1.49425E-03	+/-	9.0E-04
Phase delay (usec)	-3.38403372030E+03	Apriori clockrate (us/s)	-3.9999999E-07	Resid phdelay (usec)	1.31541E-06	+/-	3.8E-07
Delay rate (us/s)	4.42989344779E-02	Apriori rate (us/s)	4.42989836744E-02	Resid rate (us/s)	-4.91966E-08	+/-	1.6E-09
Total phase (deg)	-240.1	Apriori accel (us/s/s)	2.48434565733E-05	Resid phase (deg)	40.8	+/-	11.9

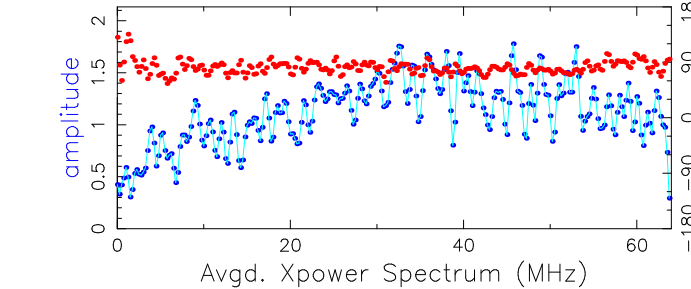
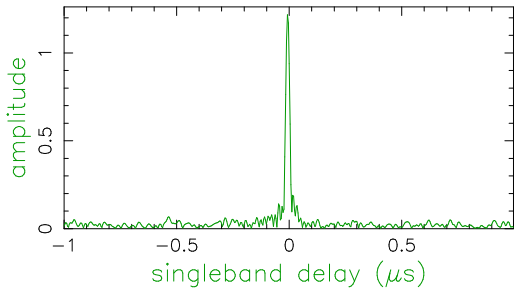
ph/seg (deg)	65.1	RMS	28.6	Theor.	0.172 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	75.7	Search (2048X32)	0.161	Amplitude	0.172 +/- 0.018	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	17.4	Inc. seg. avg.	0.248	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	20.1	Inc. frq. avg.	0.168	Inc. seg. avg.	0.248	Sample rate(MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.168	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 52.6 el 37.9 pa -57.6 n: az 56.3 el 50.7 pa -80.3 u,v (fr/asec) -363.721 2853.276 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bn..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bn.W.12.1X0YRU

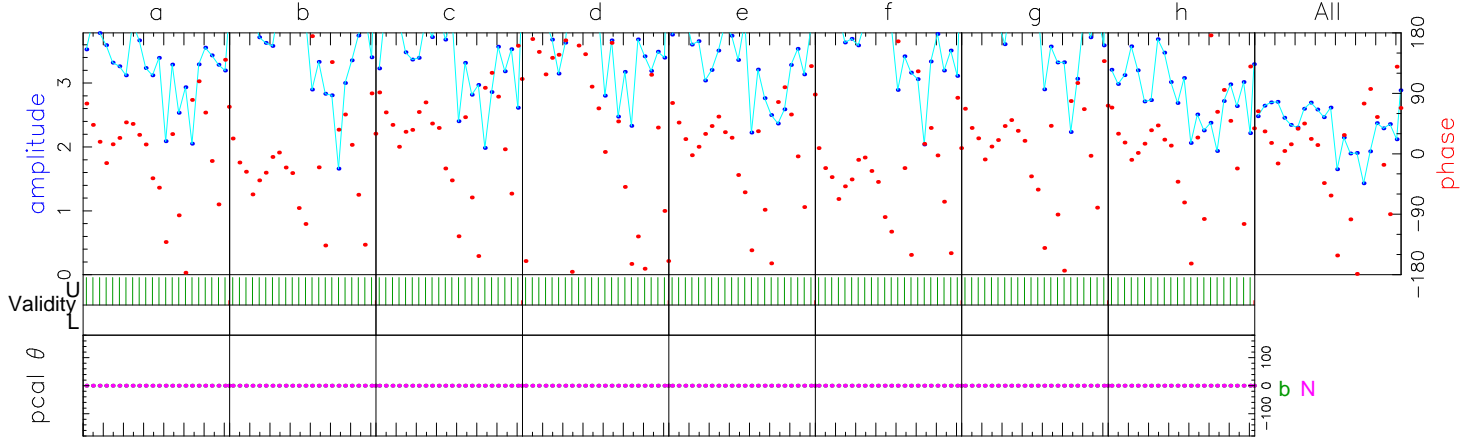
multiband delay (μ s)



Fringe quality 1
SNR 68.6
Int time 419.819
Amp 1.262
Phase 17.0
PFD 0.0e+00
Delays (us)
SBD -0.006759
MBD -0.001122
Fringe rate (Hz)
0.263777
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125141
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



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	0	0	0	0	0	0	0	0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:N	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		
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-5.55206407787E+03	Apriori delay (usec)	-5.55206295606E+03	Resid mbdelay (usec)	-1.12180E-03	+/-	1.6E-05
Sband delay (usec)	-5.55206971506E+03	Apriori clock (usec)	1.0324583E+01	Resid sbdelay (usec)	-6.75900E-03	+/-	1.3E-04
Phase delay (usec)	-5.55206295552E+03	Apriori clockrate (us/s)	-8.4199999E-06	Resid phdelay (usec)	5.49191E-07	+/-	5.4E-08
Delay rate (us/s)	1.10932395958E+00	Apriori rate (us/s)	1.10932089740E+00	Resid rate (us/s)	3.06219E-06	+/-	2.2E-10
Total phase (deg)		Apriori accel (us/s/s)	3.32528999082E-05	Resid phase (deg)	17.0	+/-	1.7

ph/seg (deg)	73.6	Theor.	4.0	Amplitude	1.262 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	93.0		7.0	Search (2048X32)	1.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	63.8		2.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	50.2		4.1	Inc. seg. avg.	2.375	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1.872	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 52.6 el 37.9 pa -57.6 N: az 298.0 el 62.4 pa 88.0 u,v (fr/asec) -10045.903 3554.396 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bN..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bN.W.32.1X0YRU

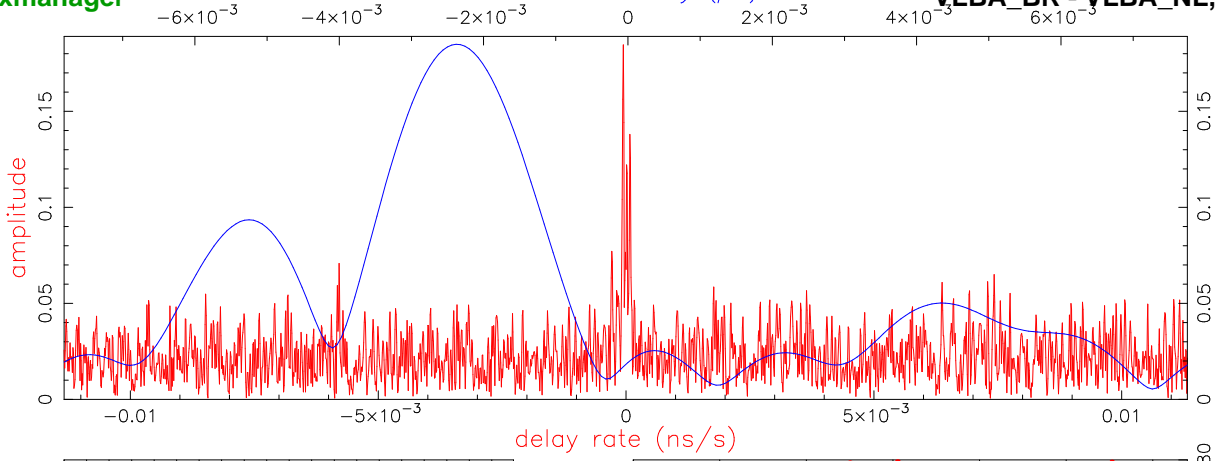
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bn

VLBA_BR - VLBA_NL, fgroup W, pol RR

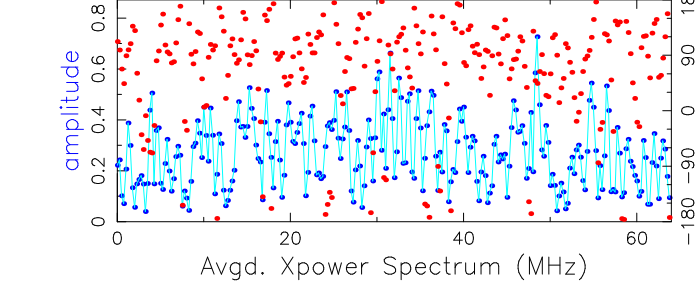
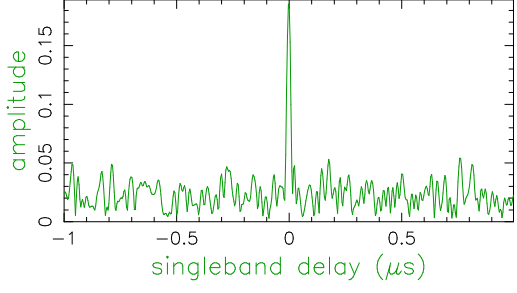
multiband delay (μ s)



Fringe quality 9

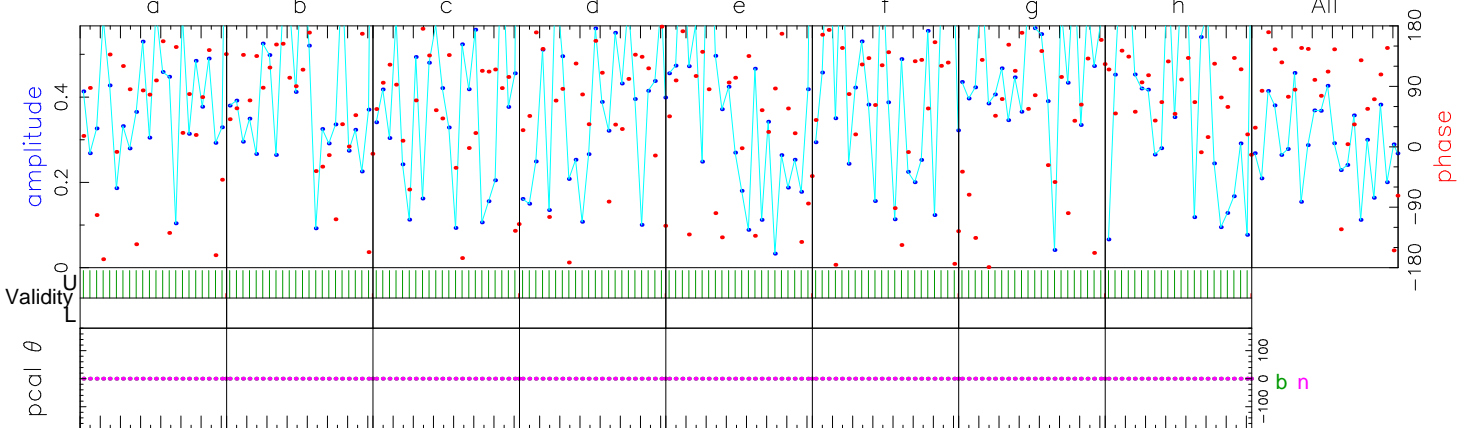
SNR 10.6
 Int time 419.824
 Amp 0.189
 Phase 107.2
 PFD 1.5e-17
 Delays (us)
 SBD -0.002041
 MBD -0.002432
 Fringe rate (Hz) -0.004328
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125142
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



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		
b	0	0	0	0	0	0	0	0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.38403615348E+03								Resid mbdelay (usec)	-2.43186E-03 +/- 1.0E-04
Sband delay (usec)	-3.38403576287E+03								Resid sbdelay (usec)	-2.04125E-03 +/- 8.1E-04
Phase delay (usec)	-3.38403371816E+03								Resid phdelay (usec)	3.45531E-06 +/- 3.5E-07
Delay rate (us/s)	4.42989334334E-02								Resid rate (us/s)	-5.02410E-08 +/- 1.4E-09
Total phase (deg)		-173.7							Resid phase (deg)	107.2 +/- 10.8
ph/seg (deg)	57.6	25.9	Search (2048X32)	0.177					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.0	45.3	Interp.	0.000					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	18.3	15.3	Inc. seg. avg.	0.265					Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	30.7	26.7	Inc. frq. avg.	0.186					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

b: az 52.6 el 37.9 pa -57.6 n: az 56.3 el 50.7 pa -80.3 u,v (fr/asec) -363.721 2853.276 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bn..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bn.W.34.1X0YRU

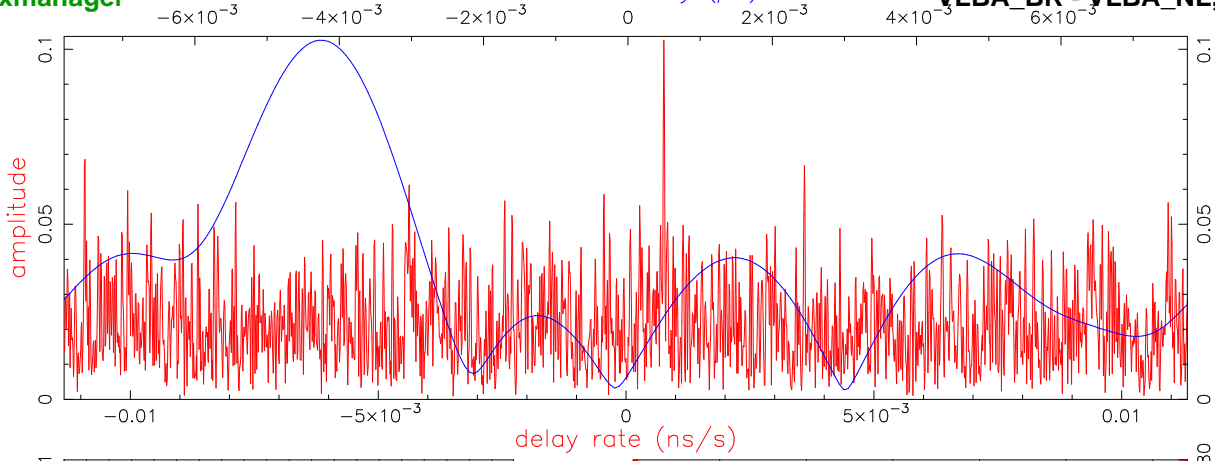
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

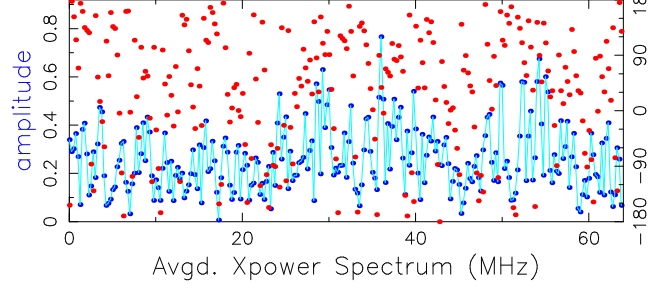
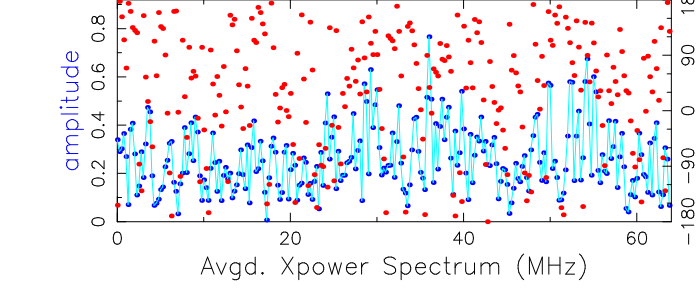
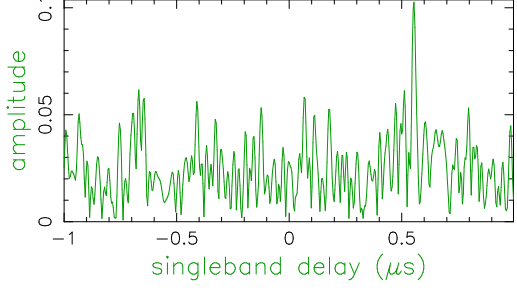
NRAO150.1X0YRU, No0085, bn

VLBA_BR - VLBA_NL, fgroup W, pol LR

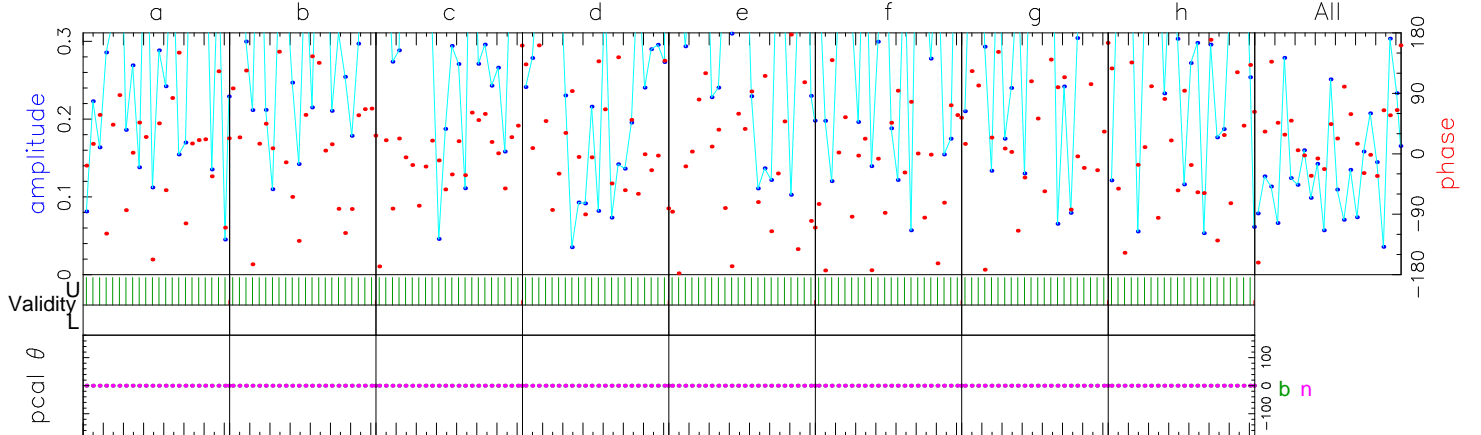
multiband delay (μ s)



Fringe quality 0
 SNR 5.8
 Int time 419.824
 Amp 0.104
 Phase 28.3
 PFD 8.1e-01
 Delays (us)
 SBD 0.553385
 MBD -0.004264
 Fringe rate (Hz) 0.065894
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211c
 Yr:day 16383
 Start 2021:116
 Stop 2021:116
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125145
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



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
	34.3	51.2	6.3	5.2	58.8	-12.5	77.5	21.0	Phase	28.3
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	Ampl.	0.1
	460.8	419.7	398.1	76.8	505.5	433.9	249.8	178.6	Sbd box	398.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)	-3.38347548536E+03		Apriori delay (usec)		-3.38403372162E+03		Resid mbdelay (usec)		-4.26374E-03	+/- 1.9E-04
Sband delay (usec)	-3.38348033637E+03		Apriori clock (usec)		-8.4608440E+00		Resid sbdelay (usec)		5.53385E-01	+/- 1.5E-03
Phase delay (usec)	-3.38403372071E+03		Apriori clockrate (us/s)		-3.9999999E-07		Resid phdelay (usec)		9.11747E-07	+/- 6.4E-07
Delay rate (us/s)	4.42997486382E-02		Apriori rate (us/s)		4.42989836744E-02		Resid rate (us/s)		7.64964E-07	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.48434565733E-05		Resid phase (deg)		28.3	+/- 19.8

ph/seg (deg) 56.7 47.4 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.7 82.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.3 27.9 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.4 48.8 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
 b: az 52.6 el 37.9 pa -57.6 n: az 56.3 el 50.7 pa -80.3 u,v (fr/asec) -363.721 2853.276 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bn..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bn.W.51.1X0YRU simultaneous interpolator

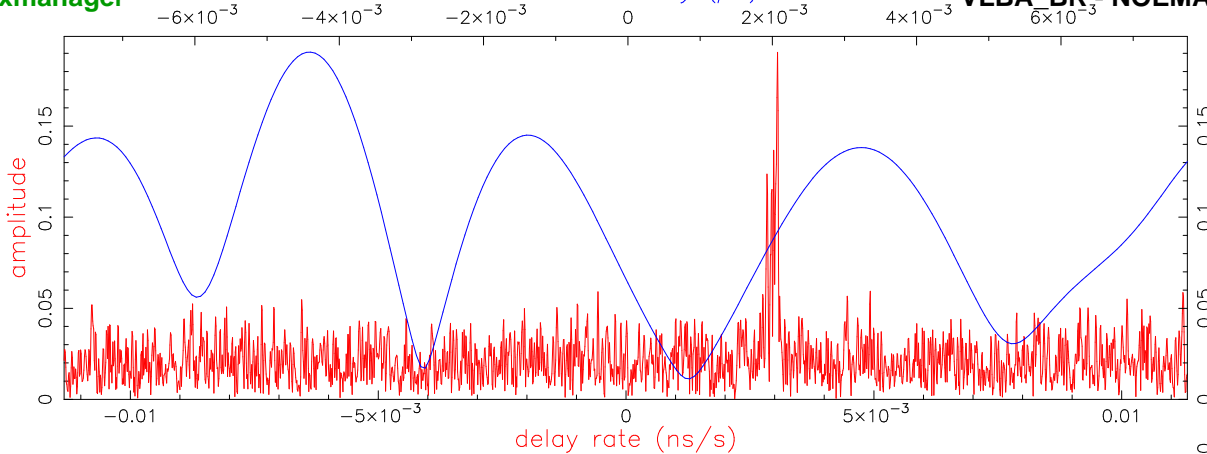
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bN

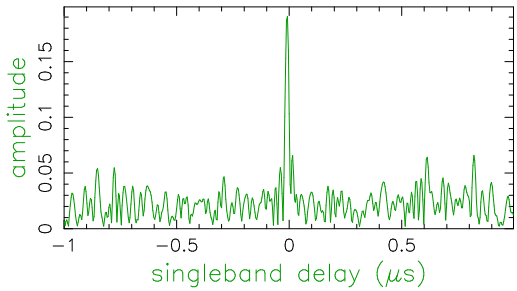
VLBA_BR - NOEMA, fgroup W, pol LR

multiband delay (μ s)

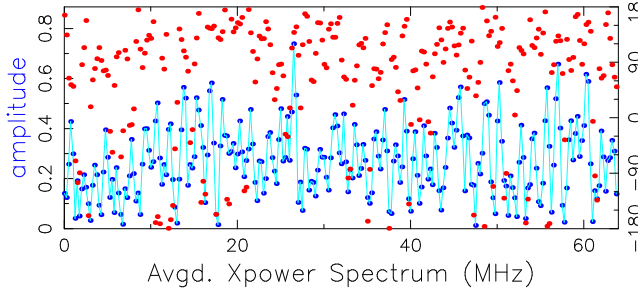


Fringe quality 9

SNR 10.8
 Int time 419.819
 Amp 0.199
 Phase 63.8
 PFD 1.1e-18
 Delays (us)
 SBD -0.009370
 MBD -0.004452
 Fringe rate (Hz)
 0.263788
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

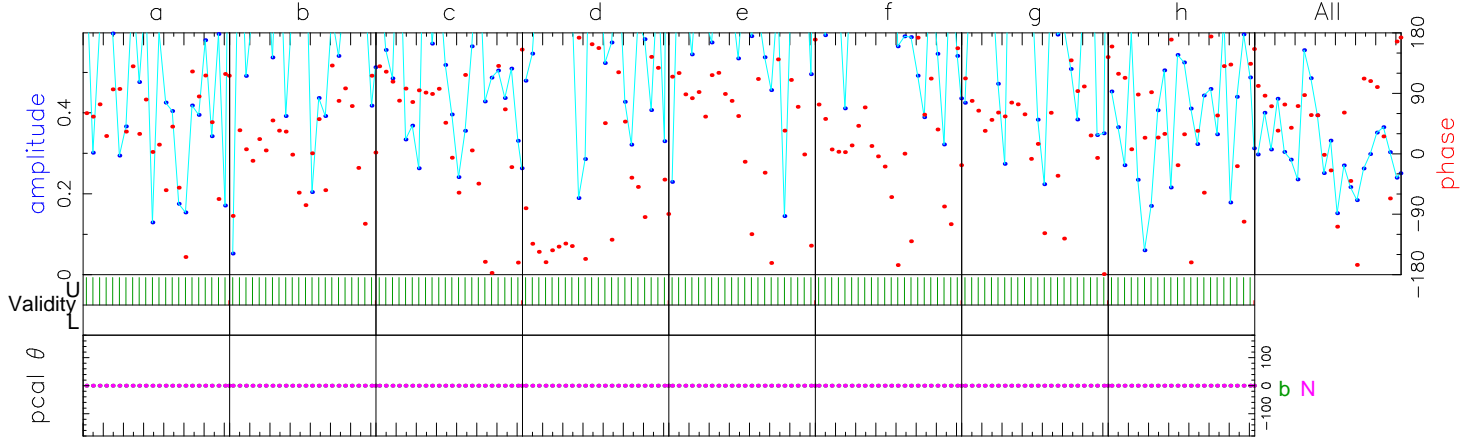


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125145
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	62.8	15.3	88.7	-155.3	91.2	16.8	60.6	70.0	Phase	63.8
	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.1	Ampl.	0.3
	253.4	254.7	255.5	255.4	254.9	255.8	254.2	251.3	Sbd box	254.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-5.55206740774E+03	Apriori delay (usec)	-5.55206295606E+03	Resid mbdelay (usec)	-4.45168E-03	+/-	1.0E-04
Sband delay (usec)	-5.55207232581E+03	Apriori clock (usec)	1.0324583E+01	Resid sbdelay (usec)	-9.36975E-03	+/-	8.0E-04
Phase delay (usec)	-5.55206295401E+03	Apriori clockrate (us/s)	-8.4199999E-06	Resid phdelay (usec)	2.05855E-06	+/-	3.4E-07
Delay rate (us/s)	1.10932395972E+00	Apriori rate (us/s)	1.10932089740E+00	Resid rate (us/s)	3.06232E-06	+/-	1.4E-09
Total phase (deg)		Apriori accel (us/s/s)	3.32528999082E-05	Resid phase (deg)	63.8	+/-	10.6

ph/seg (deg)	RMS 70.6	Theor. 25.4	Amplitude Search (2048X32)	0.199 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	79.2	44.3	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)	65.6	15.0	Inc. seg. avg.	0.295	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	66.7	26.1	Inc. frq. avg.	0.289	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 52.6 el 37.9 pa -57.6 N: az 298.0 el 62.4 pa 88.0 u,v (fr/asec) -10045.903 3554.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bN..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bN.W.53.1X0YRU

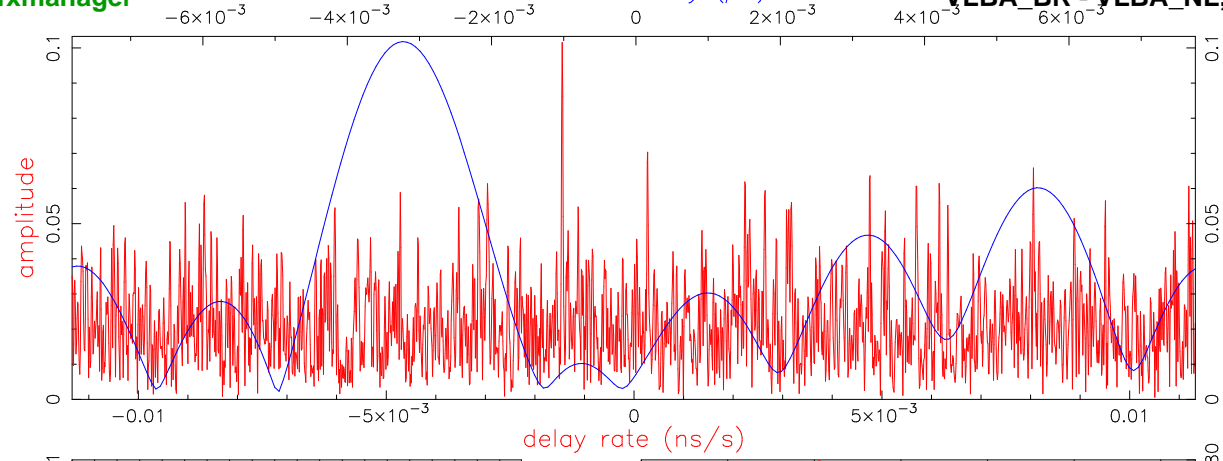
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bn

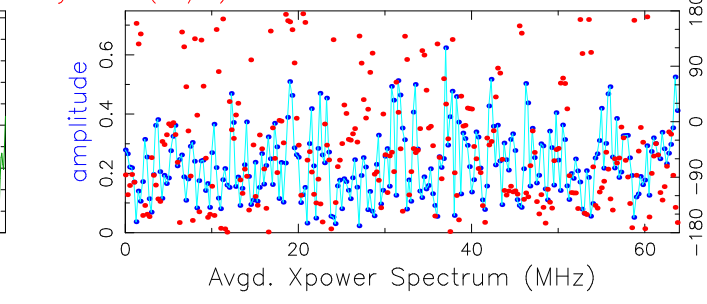
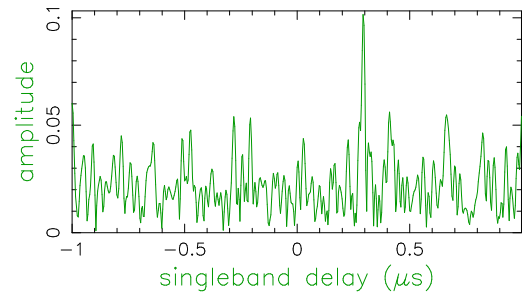
VLBA_BR - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



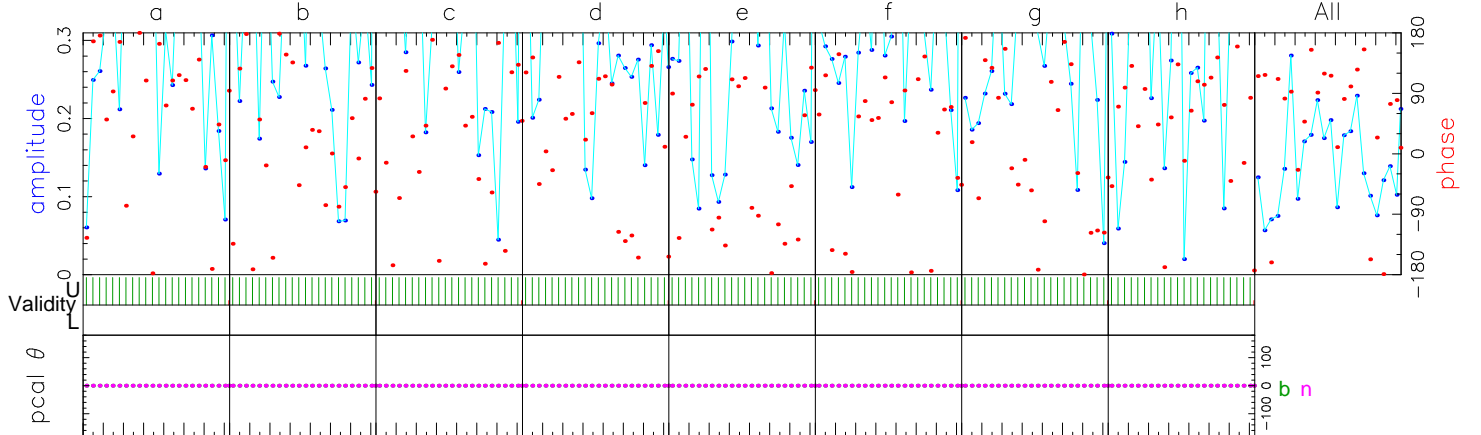
Fringe quality 0

SNR 5.7
 Int time 419.824
 Amp 0.103
 Phase 103.6
 PFD 8.9e-01
 Delays (us)
 SBD 0.294127
 MBD -0.003156
 Fringe rate (Hz)
 -0.124846
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211c
 Yr:day 16383
 Start 2021:116
 Stop 2021:116
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125148
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	120.2	64.2	93.8	101.7	123.6	90.8	176.8	91.8	Phase	103.6
	0.2	0.0	0.1	0.1	0.1	0.1	0.0	0.2	Ampl.	0.1
	338.2	61.2	430.1	6.8	1.6	505.4	277.2	332.9	Sbd box	332.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.38374000235E+03		Apriori delay (usec)		-3.38403372162E+03		Resid mbdelay (usec)		-3.15573E-03	+/- 1.9E-04
Sband delay (usec)	-3.38373959412E+03		Apriori clock (usec)		-8.4608440E+00		Resid sbdelay (usec)		2.94127E-01	+/- 1.5E-03
Phase delay (usec)	-3.38403371828E+03		Apriori clockrate (us/s)		-3.9999999E-07		Resid phdelay (usec)		3.34201E-06	+/- 6.4E-07
Delay rate (us/s)	4.42975343397E-02		Apriori rate (us/s)		4.42989836744E-02		Resid rate (us/s)		-1.44933E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.48434565733E-05		Resid phase (deg)		103.6	+/- 19.9

	RMS	Theor.	Amplitude	0.103 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.2	47.8	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.8	83.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	36.5	28.2	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	48.7	49.2	Inc. frq. avg.	0.098	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 52.6 el 37.9 pa -57.6 n: az 56.3 el 50.7 pa -80.3 u,v (fr/asec) -363.721 2853.276 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bn..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bn.W.71.1X0YRU

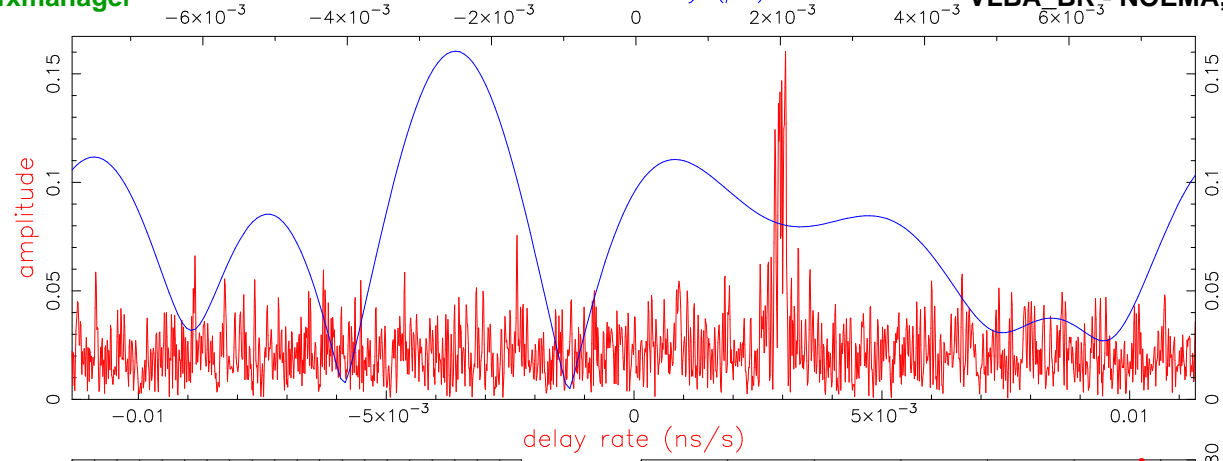
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bN

VLBA_BR - NOEMA, fgroup W, pol RL

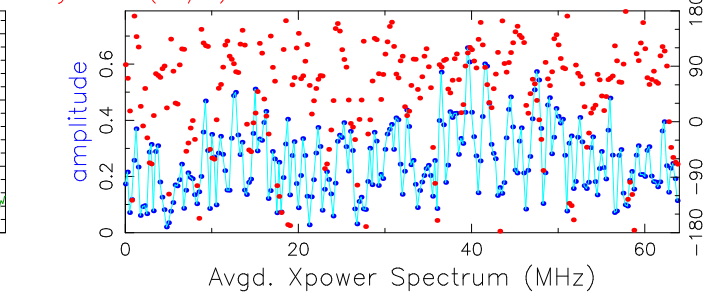
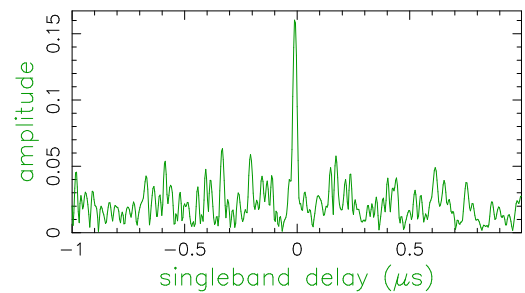
multiband delay (μ s)



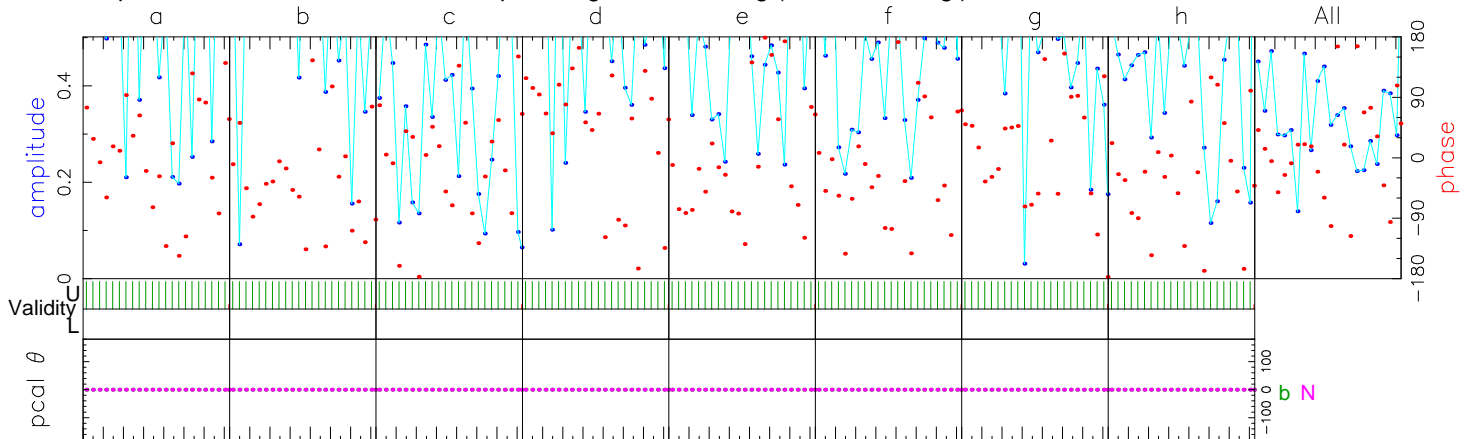
Fringe quality 9

SNR 9.1
 Int time 419.821
 Amp 0.167
 Phase -4.4
 PFD 3.7e-11
 Delays (us)
 SBD -0.010138
 MBD -0.002463
 Fringe rate (Hz)
 0.263583
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

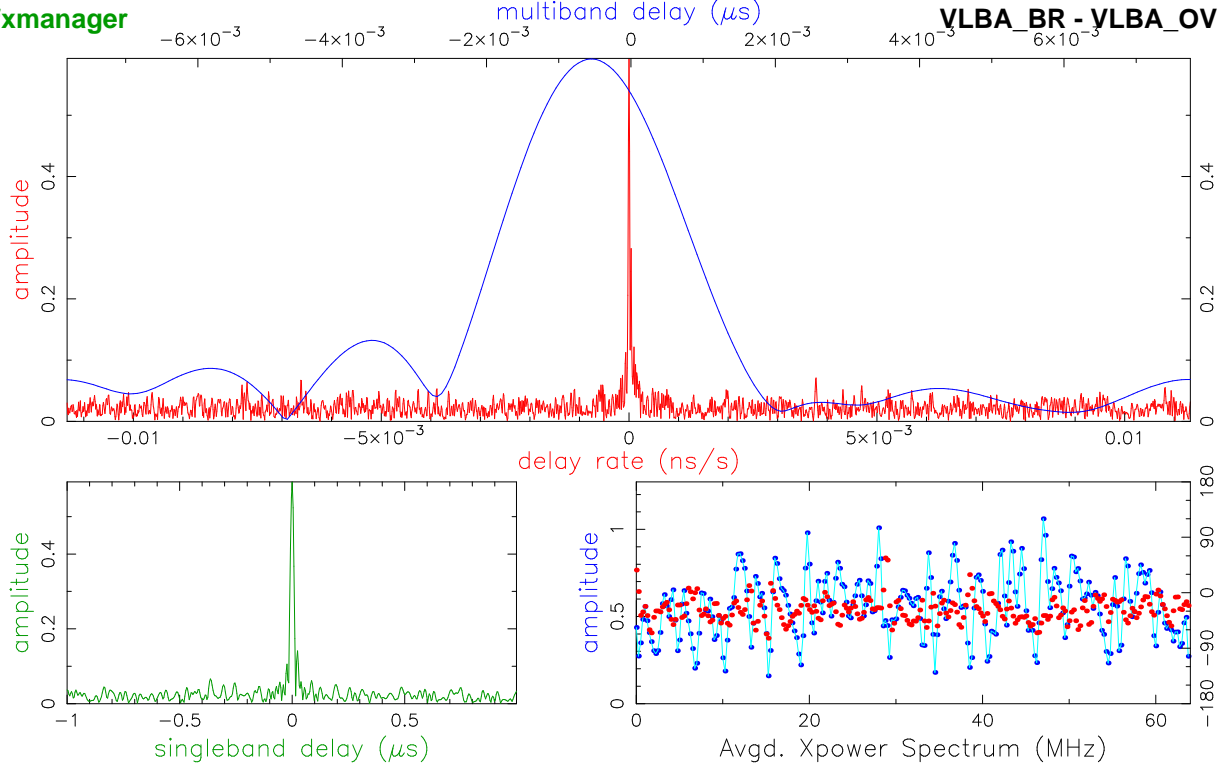
Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125149
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



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		254.4
b	0	0	0	0	0	0	0	0	Ampl.	0.2
N	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	254.4
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
N	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.55206541903E+03				-5.55206295606E+03				Resid mbdelay (usec)	-2.46297E-03 +/- 1.2E-04
Sband delay (usec)	-5.55207309456E+03				1.0324583E+01				Resid sbdelay (usec)	-1.01385E-02 +/- 9.5E-04
Phase delay (usec)	-5.55206295621E+03				-8.4199999E-06				Resid phdelay (usec)	-1.42404E-07 +/- 4.1E-07
Delay rate (us/s)	1.10932395734E+00				1.10932089740E+00				Resid rate (us/s)	3.05994E-06 +/- 1.7E-09
Total phase (deg)		-17.2			3.32528999082E-05				Resid phase (deg)	-4.4 +/- 12.6
	RMS	Theor.	Amplitude	0.167 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	75.3	30.2	Search (2048X32)	0.154					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	117.6	52.7	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	55.0	17.8	Inc. seg. avg.	0.300					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	47.9	31.1	Inc. frq. avg.	0.227					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 52.6 el 37.9 pa -57.6			N: az 298.0 el 62.4 pa 88.0						nlags: 256	t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c211c/v1/1234/No0085/bN..1X0YRU							simultaneous interpolator
			Output file: /Exps/c211c/v1/1234/No0085/bN.W.73.1X0YRU							

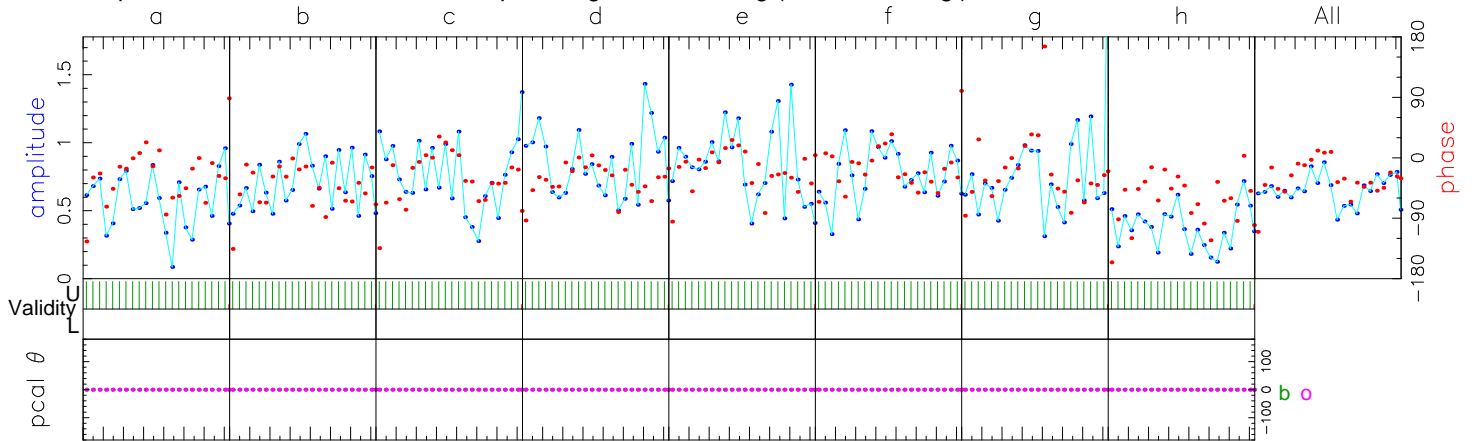


Fringe quality 6

SNR 33.2
Int time 419.827
Amp 0.593
Phase -28.3
PFD 0.0e+00
Delays (us)
SBD -0.000500
MBD -0.000561
Fringe rate (Hz)
-0.000415
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125137
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'59.161694"

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
	-26.2	-41.7	-24.9	-33.3	-15.9	-18.7	-26.8	-54.8	Phase	-28.3
	0.5	0.6	0.6	0.8	0.7	0.7	0.6	0.3	Ampl.	0.6
	256.8	256.7	256.9	256.8	257.3	256.7	256.6	255.8	Sbd box	256.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.86219398104E+03		Apriori delay (usec)		1.86219454241E+03		Resid mbdelay (usec)		-5.61375E-04	+/- 3.3E-05
Sband delay (usec)	1.86219404216E+03		Apriori clock (usec)		-6.7299213E+00		Resid sbdelay (usec)		-5.00250E-04	+/- 2.6E-04
Phase delay (usec)	1.86219454150E+03		Apriori clockrate (us/s)		-4.5999999E-07		Resid phdelay (usec)		-9.14153E-07	+/- 1.1E-07
Delay rate (us/s)	-1.22712686344E-01		Apriori rate (us/s)		-1.22712681527E-01		Resid rate (us/s)		-4.81677E-09	+/- 4.6E-10
Total phase (deg)	289.6		Apriori accel (us/s/s)		2.30935142578E-06		Resid phase (deg)		-28.3	+/- 3.4

ph/seg (deg) 26.8 8.3
amp/seg (%) 20.6 14.4
ph/frq (deg) 14.0 4.9
amp/frq (%) 24.8 8.5

RMS Theor. Amplitude 0.593 +/- 0.018
Search (2048X32) 0.562
Inc. seg. avg. 0.652
Inc. frq. avg. 0.600

Group delay (usec)(sbd) 1.86219398104E+03
Sband delay (usec) 1.86219404216E+03
Phase delay (usec) 1.86219454150E+03
Delay rate (us/s) -1.22712686344E-01
Total phase (deg) 289.6

Apriori delay (usec) 1.86219454241E+03
Apriori clock (usec) -6.7299213E+00
Apriori clockrate (us/s) -4.5999999E-07
Apriori rate (us/s) -1.22712681527E-01
Apriori accel (us/s/s) 2.30935142578E-06

Resid mbdelay (usec) -5.61375E-04
Resid sbdelay (usec) -5.00250E-04
Resid phdelay (usec) -9.14153E-07
Resid rate (us/s) -4.81677E-09
Resid phase (deg) -28.3

PCal mode: MANUAL, MANUAL
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048

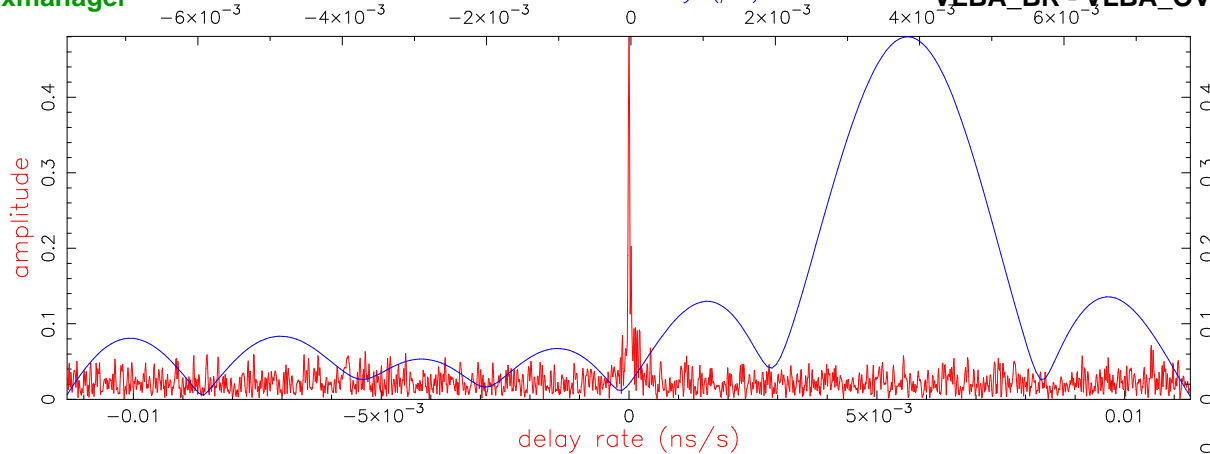
PC period (AP's) 5, 5
Sb window (us) -1.000 1.000
SampCntNorm: enabled
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

nlags: 256 t_cohere infinite
simultaneous interpolator

b: az 52.6 el 37.9 pa -57.6
o: az 47.3 el 31.7 pa -68.3
u,v (fr/asec) 1118.928 992.095

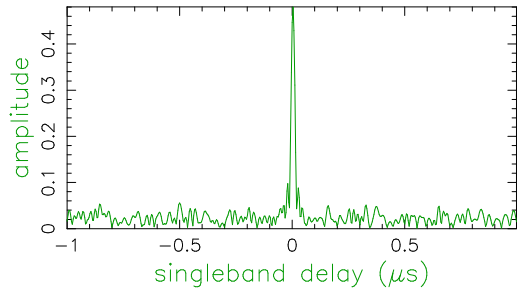
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bo..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bo.W.15.1X0YRU

multiband delay (μ s)

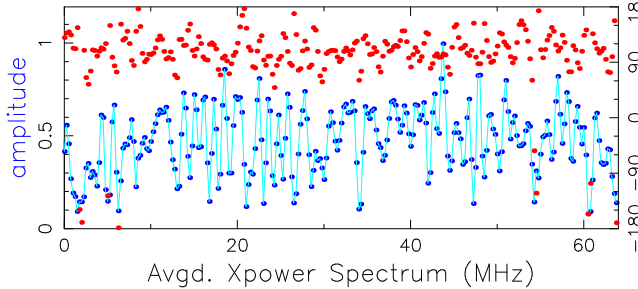


Fringe quality 8

SNR 26.9
Int time 419.827
Amp 0.481
Phase 106.1
PFD 0.0e+00
Delays (us)
SBD 0.003476
MBD 0.003825
Fringe rate (Hz)
-0.000322
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

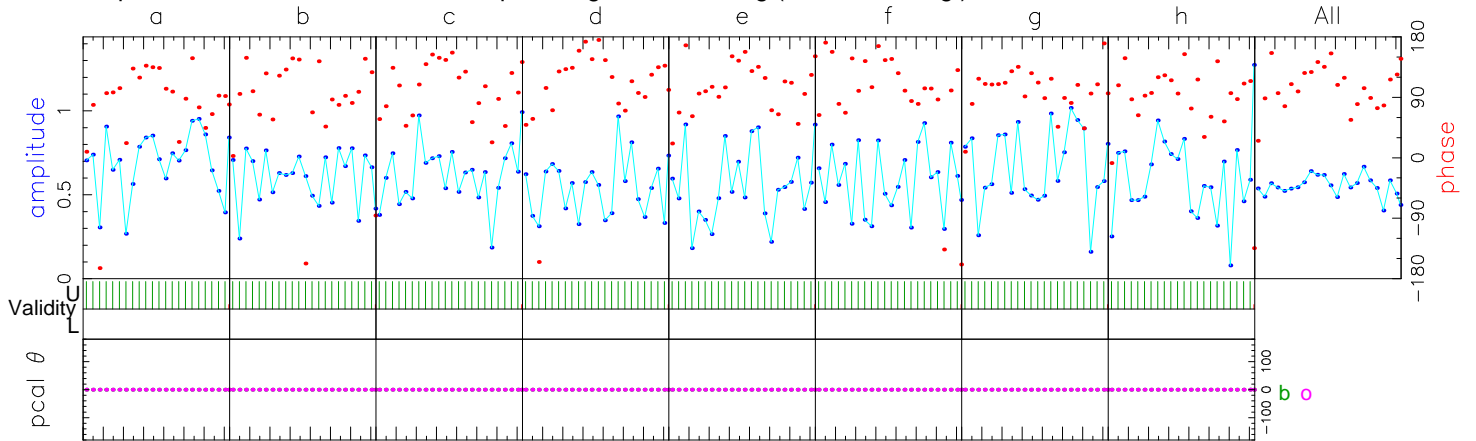


delay rate (ns/s)



Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125142
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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



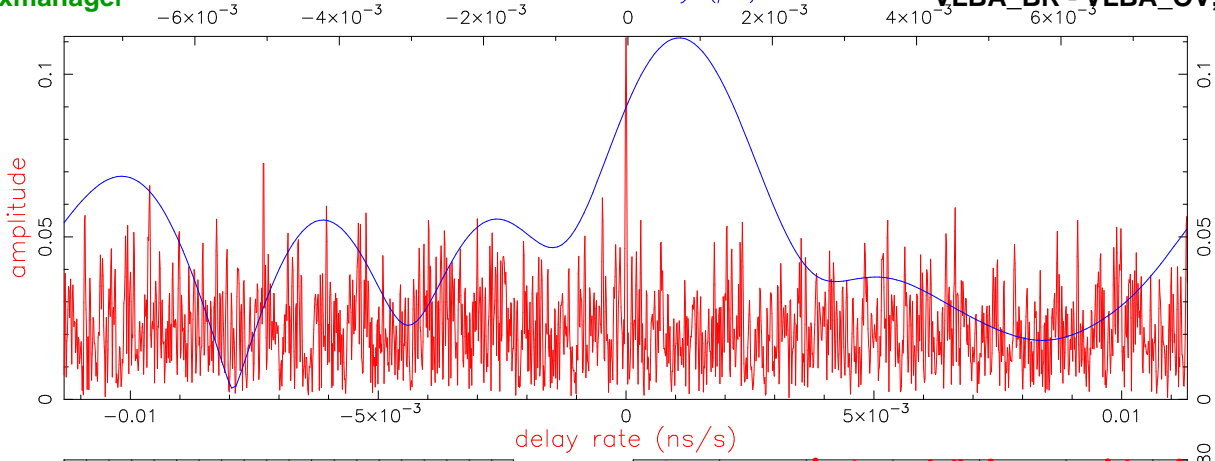
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	96.1	107.4	107.8	115.9	110.9	113.8	99.0	102.1	Phase	106.1
	0.5	0.4	0.5	0.4	0.4	0.5	0.6	0.5	Ampl.	0.5
	258.4	258.0	257.8	257.6	258.7	257.6	258.0	257.1	Sbd box	257.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 1.86219836700E+03 Apriori delay (usec) 1.86219454241E+03 Resid mbdelay (usec) 3.82459E-03 +/- 4.0E-05
 Sband delay (usec) 1.86219801791E+03 Apriori clock (usec) -6.7299213E+00 Resid sbdelay (usec) 3.47550E-03 +/- 3.2E-04
 Phase delay (usec) 1.86219454583E+03 Apriori clockrate (us/s) -4.5999999E-07 Resid phdelay (usec) 3.42292E-06 +/- 1.4E-07
 Delay rate (us/s) -1.22712685268E-01 Apriori rate (us/s) -1.22712681527E-01 Resid rate (us/s) -3.74118E-09 +/- 5.7E-10
 Total phase (deg) 64.1 Apriori accel (us/s/s) 2.30935142578E-06 Resid phase (deg) 106.1 +/- 4.3

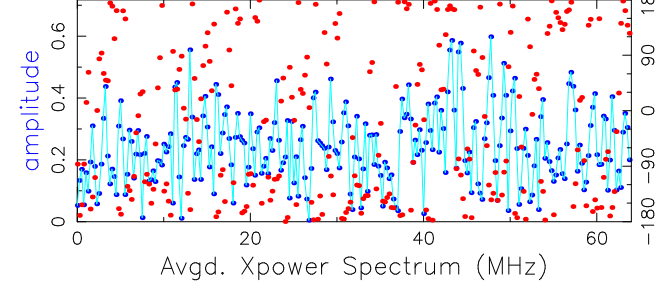
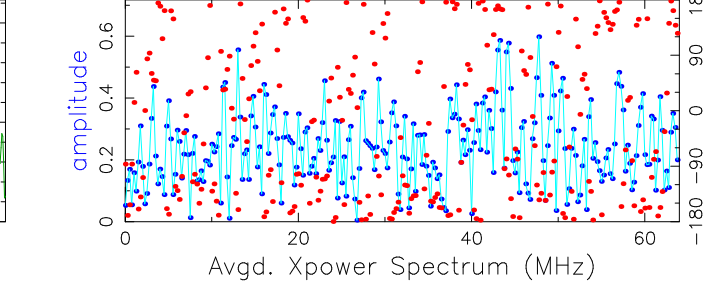
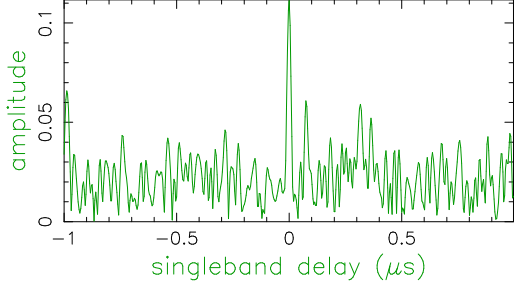
RMS Theor. Amplitude 0.481 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 31.5 10.2 Search (2048X32) 0.466 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 19.9 17.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 7.6 6.0 Inc. seg. avg. 0.548 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.1 10.5 Inc. frq. avg. 0.481 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 o: az 47.3 el 31.7 pa -68.3 u,v (fr/asec) 1118.928 992.095 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bo..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bo.W.37.1X0YRU

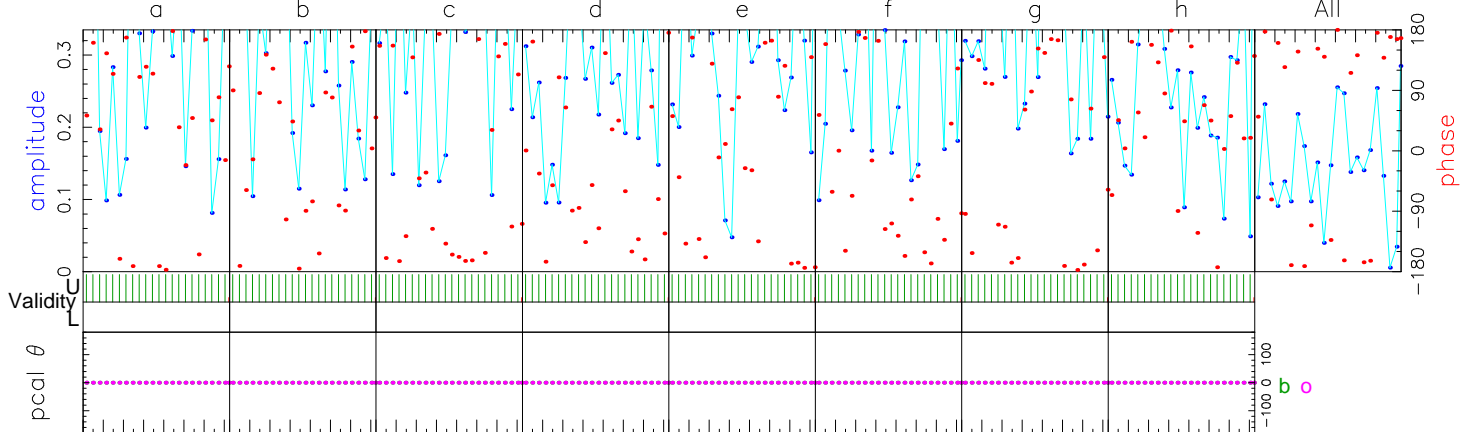
multiband delay (μ s)



Fringe quality 0
SNR 6.3
Int time 419.827
Amp 0.112
Phase 173.6
PFD 1.0e-01
Delays (us)
SBD -0.000870
MBD 0.000708
Fringe rate (Hz) 0.000233
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125146
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'59.161694"



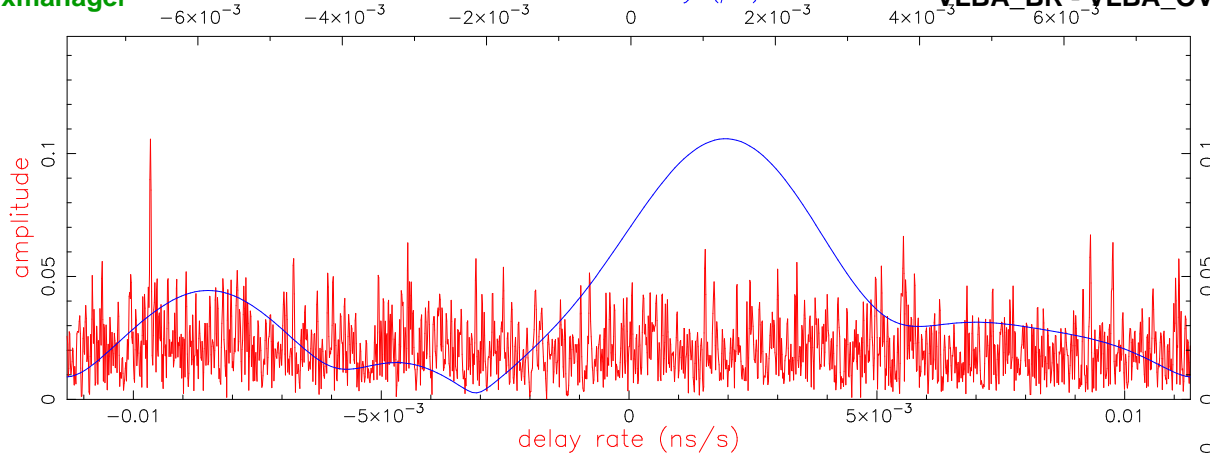
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	145.1	113.1	-171.7	-115.5	176.7	-143.0	163.3	92.1	Phase	173.6
	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	355.9	4.7	256.9	182.9	265.6	136.9	258.3	326.2	Sbd box	256.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.86219525072E+03		Apriori delay (usec)		1.86219454241E+03		Resid mbdelay (usec)		7.08312E-04	+/- 1.7E-04
Sband delay (usec)	1.86219367241E+03		Apriori clock (usec)		-6.7299213E+00		Resid sbdelay (usec)		-8.70000E-04	+/- 1.4E-03
Phase delay (usec)	1.86219454801E+03		Apriori clockrate (us/s)		-4.5999999E-07		Resid phdelay (usec)		5.59730E-06	+/- 5.9E-07
Delay rate (us/s)	-1.22712678824E-01		Apriori rate (us/s)		-1.22712681527E-01		Resid rate (us/s)		2.70244E-09	+/- 2.4E-09
Total phase (deg)	131.5		Apriori accel (us/s/s)		2.30935142578E-06		Resid phase (deg)		173.6	+/- 18.3

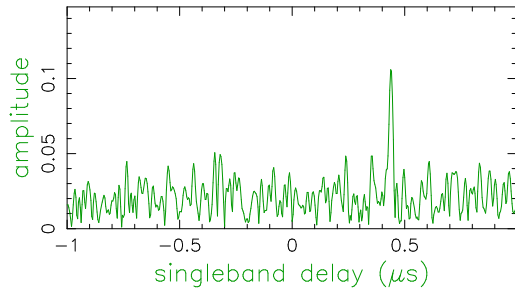
ph/seg (deg) 47.1 43.9 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.0 76.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 55.3 25.9 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 57.2 45.2 Inc. frq. avg. 0.128 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 52.6 el 37.9 pa -57.6 o: az 47.3 el 31.7 pa -68.3 u,v (fr/asec) 1118.928 992.095 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bo..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bo.W.56.1X0YRU

multiband delay (μ s)

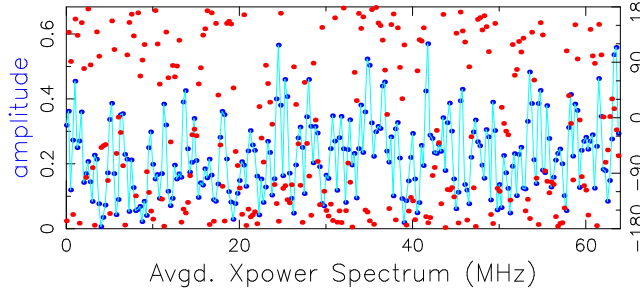


Fringe quality 0

SNR 6.0
 Int time 419.827
 Amp 0.148
 Phase -167.8
 PFD 3.7e-01
 Delays (us)
 SBD 0.439209
 MBD 0.001400
 Fringe rate (Hz)
 -0.832398
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

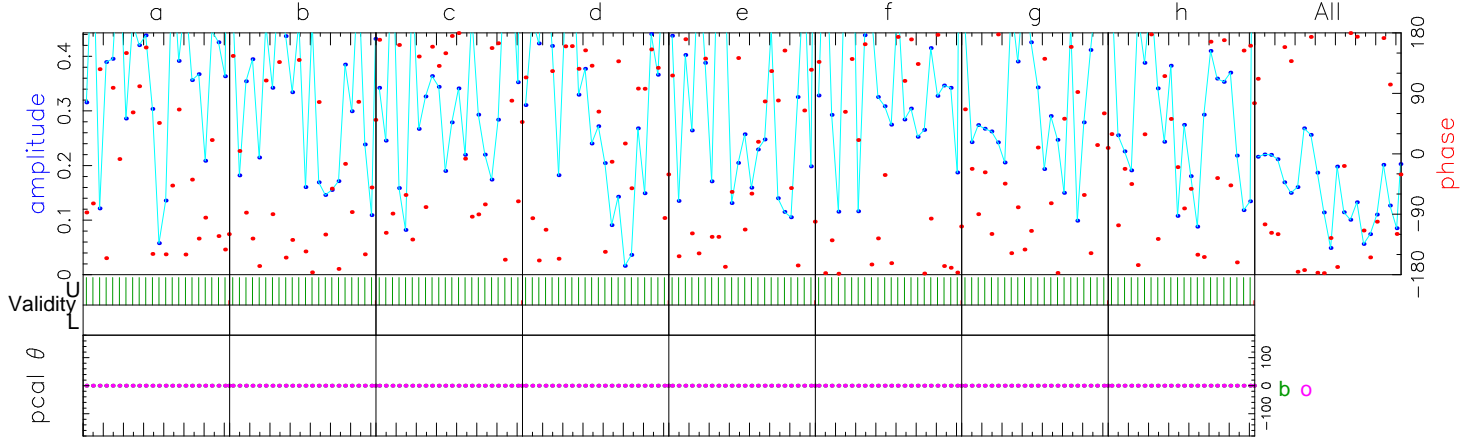


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125149
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-112.9	-171.6	-149.5	167.3	175.8	176.3	-98.5	-137.5	Phase	-167.8
	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.1	Ampl.	0.1
	146.3	366.9	117.0	369.9	185.8	369.1	69.1	221.9	Sbd box	369.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.86263344214E+03	Apriori delay (usec)	1.86219454241E+03	Resid mbdelay (usec)	1.39973E-03	+/-	1.8E-04
Sband delay (usec)	1.86263375116E+03	Apriori clock (usec)	-6.7299213E+00	Resid sbdelay (usec)	4.39209E-01	+/-	1.4E-03
Phase delay (usec)	1.86219453700E+03	Apriori clockrate (us/s)	-4.5999999E-07	Resid phdelay (usec)	-5.41174E-06	+/-	6.1E-07
Delay rate (us/s)	-1.22722344846E-01	Apriori rate (us/s)	-1.22712681527E-01	Resid rate (us/s)	-9.66332E-06	+/-	2.5E-09
Total phase (deg)	150.1	Apriori accel (us/s/s)	2.30935142578E-06	Resid phase (deg)	-167.8	+/-	19.0

ph/seg (deg)	RMS 54.5	Theor. 45.7	Amplitude 54.5	0.148 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.5	79.7	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	41.3	26.9	Inc. seg. avg.	0.163	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	57.1	47.0	Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 52.6 el 37.9 pa -57.6 o: az 47.3 el 31.7 pa -68.3 u,v (fr/asec) 1118.928 992.095 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bo..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bo.W.75.1X0YRU

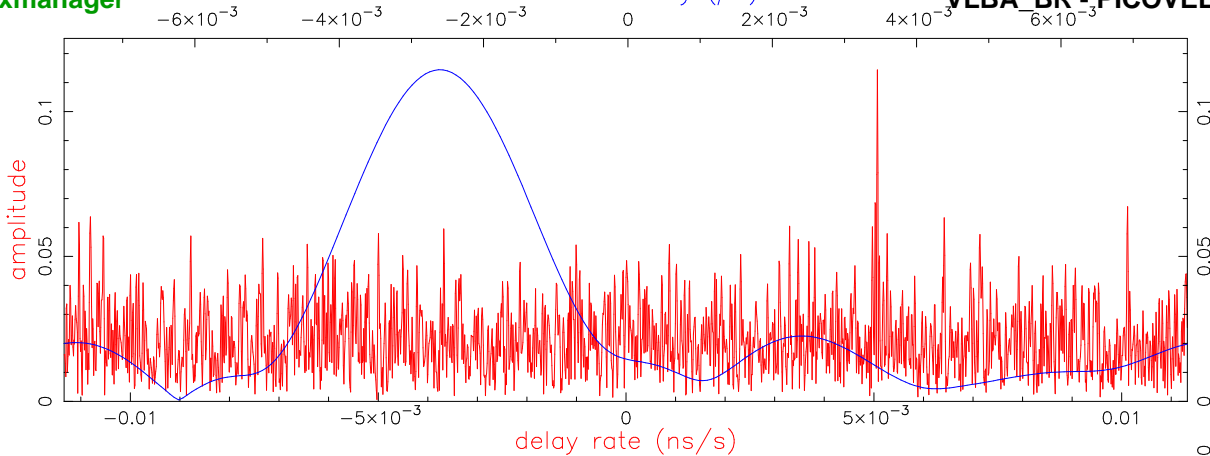
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bP

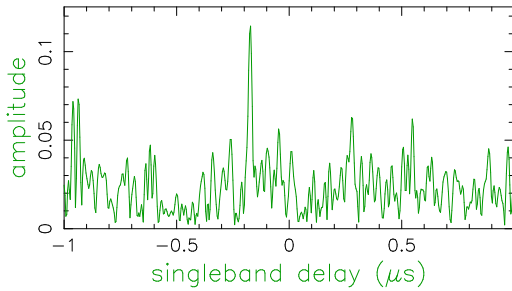
VLBA_BR - PICOVEL, fgroup W, pol LL

multiband delay (μ s)

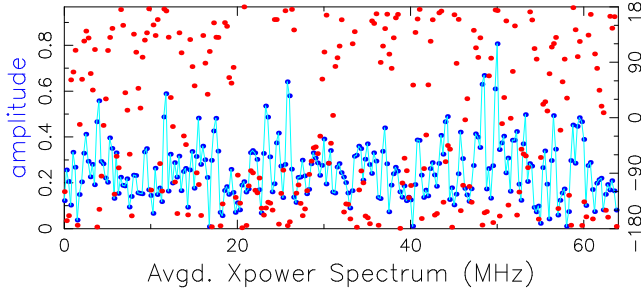


Fringe quality 0

SNR 6.5
 Int time 419.821
 Amp 0.125
 Phase 11.9
 PFD 3.0e-02
 Delays (us)
 SBD -0.172959
 MBD -0.002637
 Fringe rate (Hz)
 0.437415
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

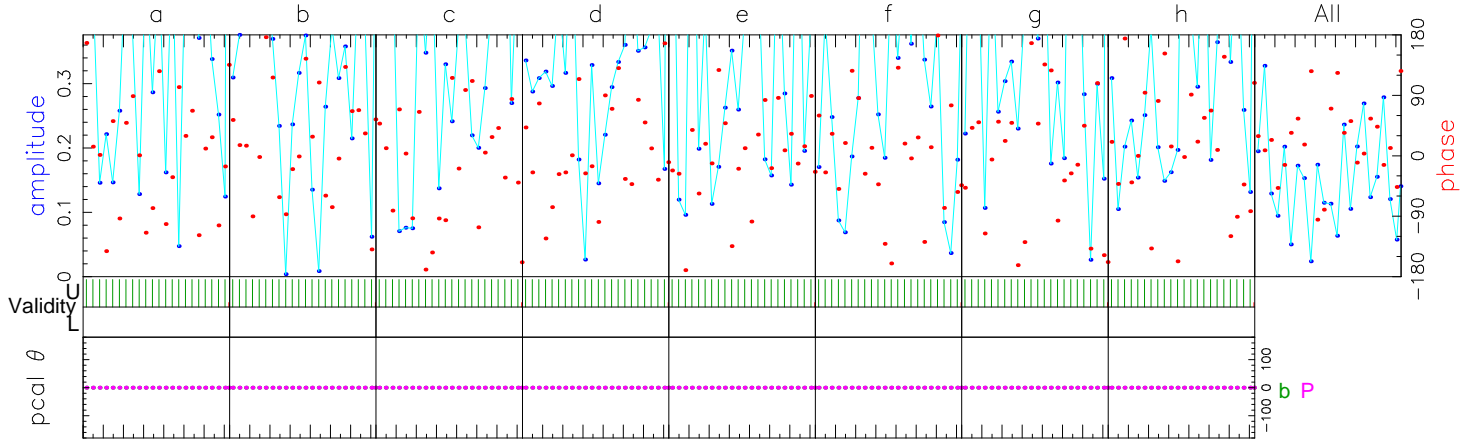


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125138
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	21.9	23.1	0.3	1.3	11.3	-1.3	25.1	27.6	Phase	11.9
	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	348.0	428.3	240.4	212.8	97.1	11.0	328.0	391.2	Sbd box	212.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	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	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

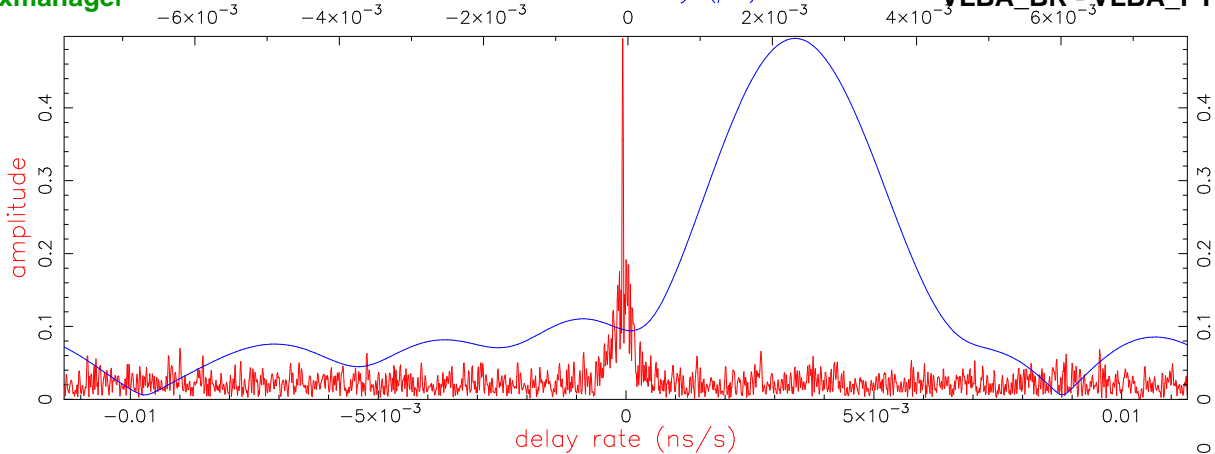
Group delay (usec)(sbd)	-5.81981443908E+03	Apriori delay (usec)	-5.81963992668E+03	Resid mbdelay (usec)	-2.63740E-03	+/-	1.7E-04
Sband delay (usec)	-5.81981288568E+03	Apriori clock (usec)	-1.9276962E+00	Resid sbdelay (usec)	-1.72959E-01	+/-	1.3E-03
Phase delay (usec)	-5.81963992630E+03	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	3.84352E-07	+/-	5.7E-07
Delay rate (us/s)	1.06362631821E+00	Apriori rate (us/s)	1.06362124026E+00	Resid rate (us/s)	5.07796E-06	+/-	2.4E-09
Total phase (deg)	-90.5	Apriori accel (us/s/s)	4.33706692344E-05	Resid phase (deg)	11.9	+/-	17.8

ph/seg (deg)	55.2	Theor.	42.6	Amplitude	0.125 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.0		74.3	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	13.4		25.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	36.0		43.8	Inc. seg. avg.	0.130	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.116	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 52.6 el 37.9 pa -57.6 P: az 312.2 el 63.9 pa 111.2 u,v (fr/asec) -9614.639 5089.312 simultaneous interpolator

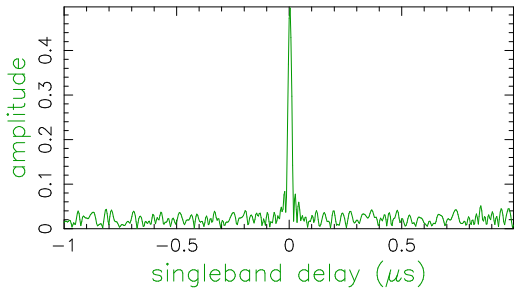
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bP..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bP.W.16.1X0YRU

multiband delay (μ s)

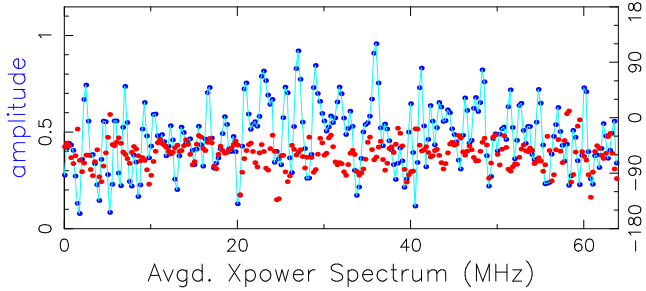


Fringe quality 8

SNR 27.9
Int time 419.816
Amp 0.498
Phase -52.1
PFD 0.0e+00
Delays (us)
SBD 0.002928
MBD 0.002279
Fringe rate (Hz)
-0.005650
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

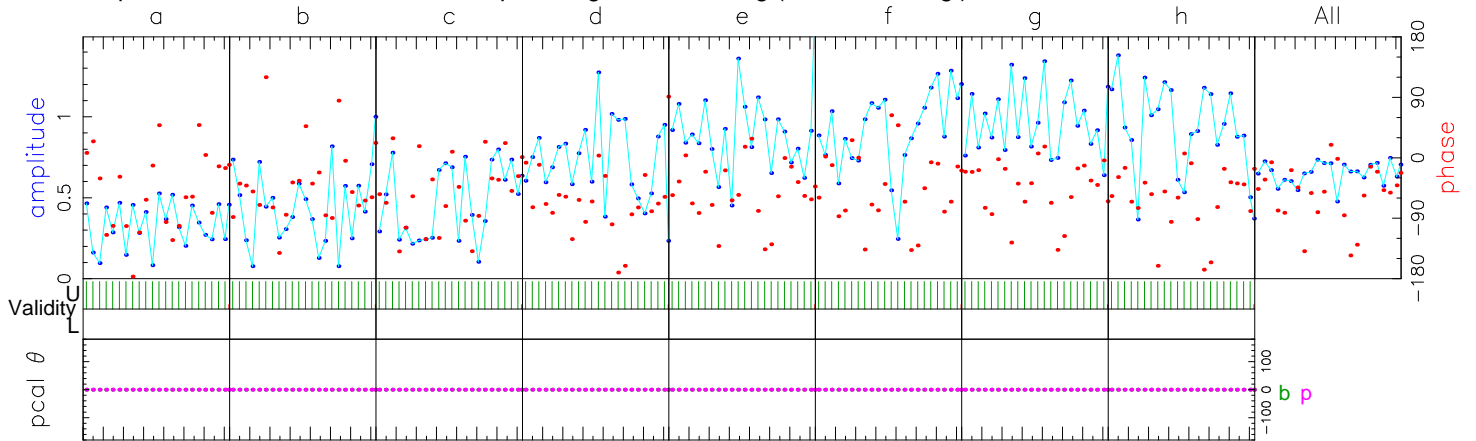


delay rate (ns/s)



Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125138
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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
	-54.8	-55.8	-45.3	-69.5	-47.4	-48.1	-41.8	-59.0	Phase	-52.1
	0.2	0.3	0.3	0.5	0.7	0.6	0.7	0.7	Ampl.	0.5
	258.2	257.8	257.8	257.8	257.8	257.7	257.4	257.6	Sbd box	257.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

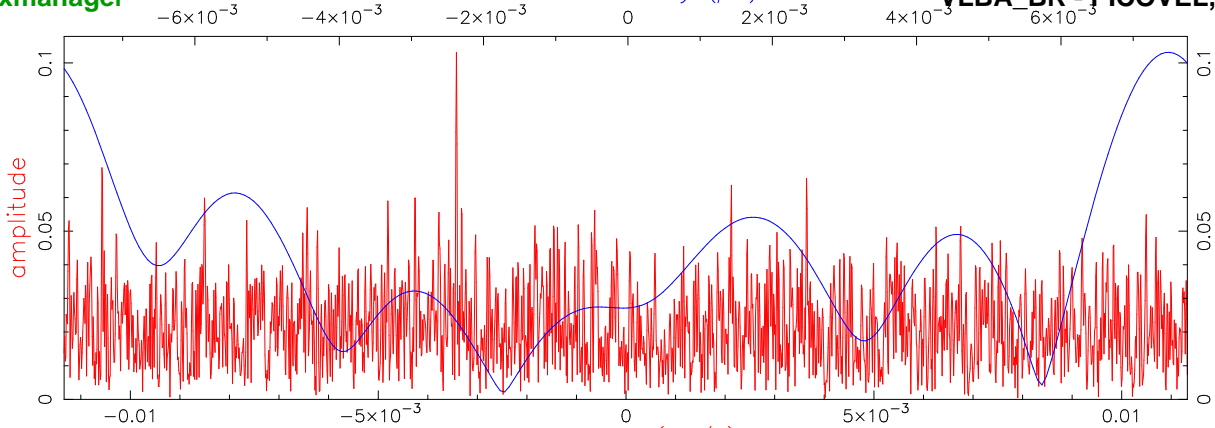
Group delay (usec)(sbd)	5.77395466800E+02	Apriori delay (usec)	5.77393187857E+02	Resid mbdelay (usec)	2.27894E-03	+/-	3.9E-05
Sband delay (usec)	5.77396115607E+02	Apriori clock (usec)	-8.5213070E+00	Resid sbdelay (usec)	2.92775E-03	+/-	3.1E-04
Phase delay (usec)	5.77393186176E+02	Apriori clockrate (us/s)	2.0000000E-08	Resid phdelay (usec)	-1.68157E-06	+/-	1.3E-07
Delay rate (us/s)	-1.21283214721E-01	Apriori rate (us/s)	-1.21283149132E-01	Resid rate (us/s)	-6.55898E-08	+/-	5.5E-10
Total phase (deg)	20.6	Apriori accel (us/s/s)	1.27609911808E-05	Resid phase (deg)	-52.1	+/-	4.1

ph/seg (deg)	42.4	RMS	9.8	Theor.	4.98 +/- 0.018	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	33.8	Search (2048X32)	0.491	Interp.	0.000	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	9.7	Inc. seg. avg.	0.643	Inc. frq. avg.	0.499	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	39.2	Inc. frq. avg.	0.499	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
									ion window (TEC)	0.00 0.00	

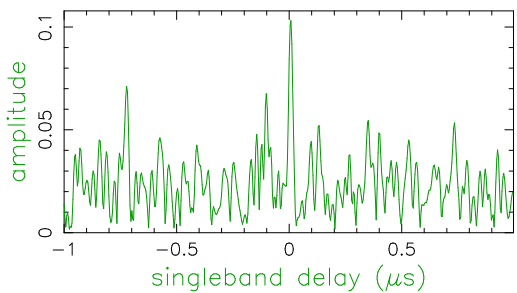
b: az 52.6 el 37.9 pa -57.6 p: az 48.1 el 35.8 pa -78.4 u,v (fr/asec) 1122.454 2237.353 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bp..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bp.W.19.1X0YRU

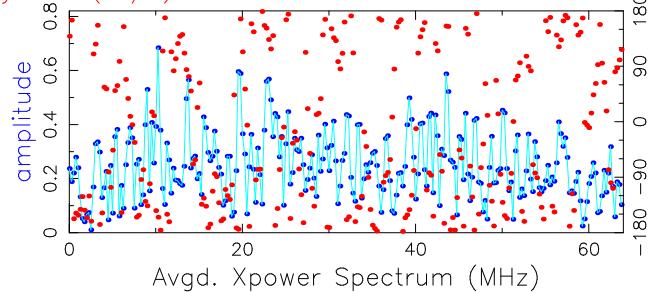
multiband delay (μ s)



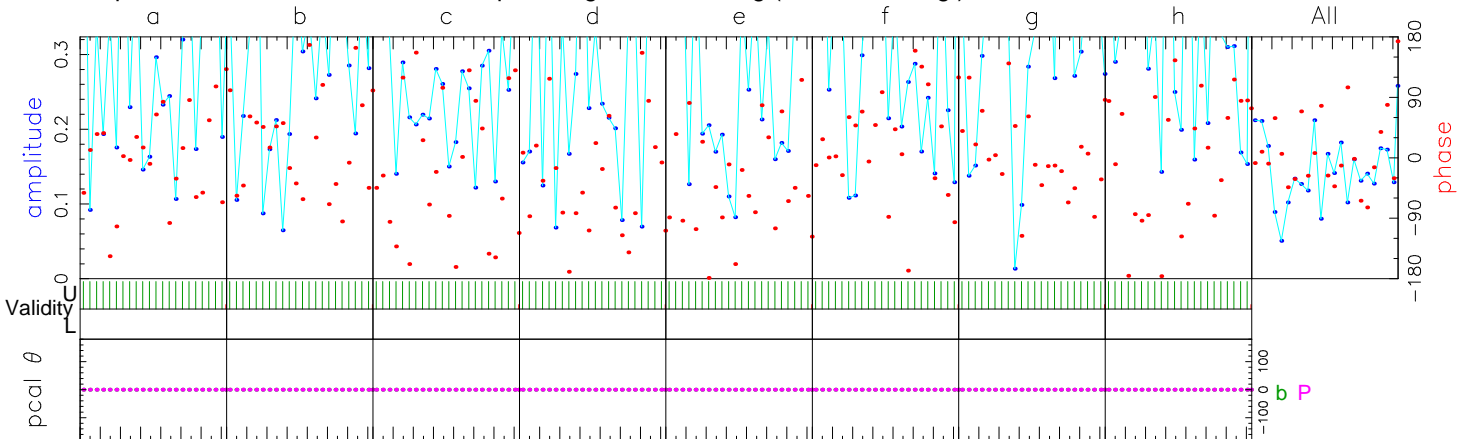
Fringe quality 0
 SNR 5.8
 Int time 419.821
 Amp 0.108
 Phase -2.3
 PFD 7.7e-01
 Delays (us)
 SBD 0.006547
 MBD -0.008115
 Fringe rate (Hz)
 -0.295199
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125141
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



delay rate (ns/s)

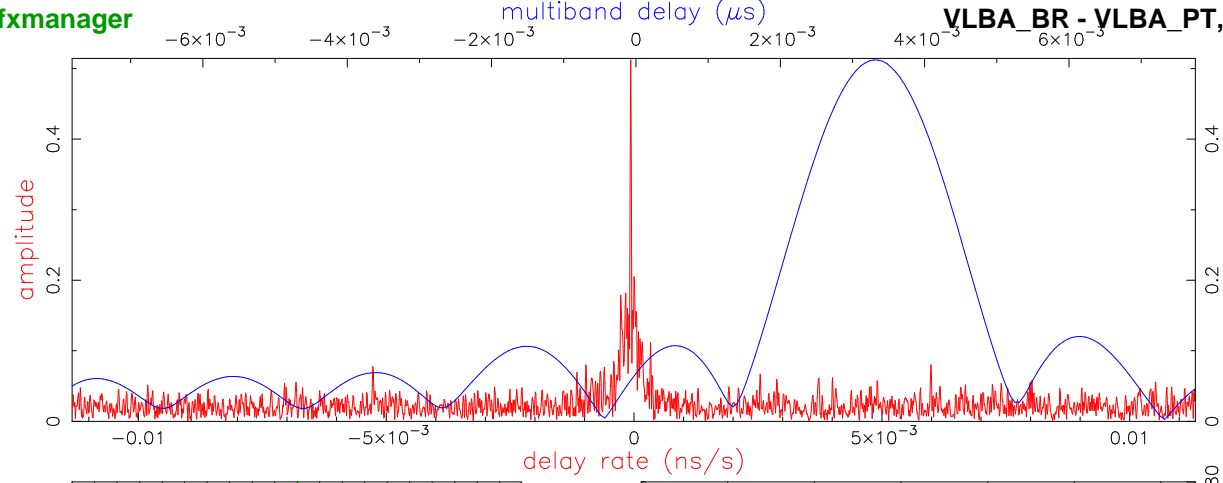


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

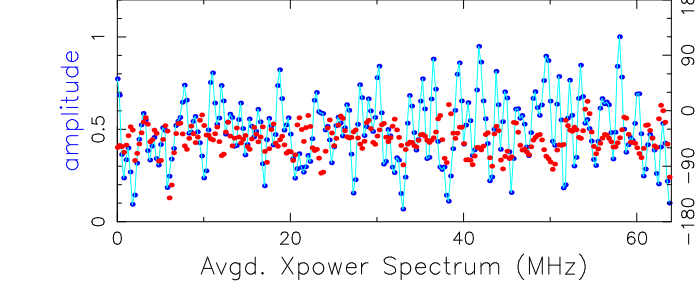
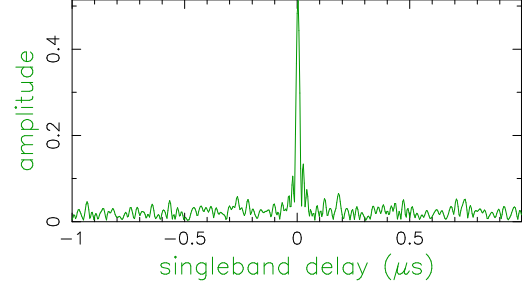


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	11.8	16.0	-90.2	-29.7	-52.0	29.5	-10.3	40.6	Phase	-2.3
	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.0	Ampl.	0.1
	74.3	199.2	367.8	261.6	236.6	83.4	258.7	232.2	Sbd box	258.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)	-5.81963241700E+03		Apriori delay (usec)		-5.81963992668E+03		Resid mbdelay (usec)		-8.11531E-03	+/- 1.9E-04
Sband delay (usec)	-5.81963337993E+03		Apriori clock (usec)		-1.9276962E+00		Resid sbdelay (usec)		6.54675E-03	+/- 1.5E-03
Phase delay (usec)	-5.81963992676E+03		Apriori clockrate (us/s)		5.0000000E-07		Resid phdelay (usec)		-7.33952E-08	+/- 6.3E-07
Delay rate (us/s)	1.06361781329E+00		Apriori rate (us/s)		1.06362124026E+00		Resid rate (us/s)		-3.42696E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		4.33706692344E-05		Resid phase (deg)		-2.3	+/- 19.7

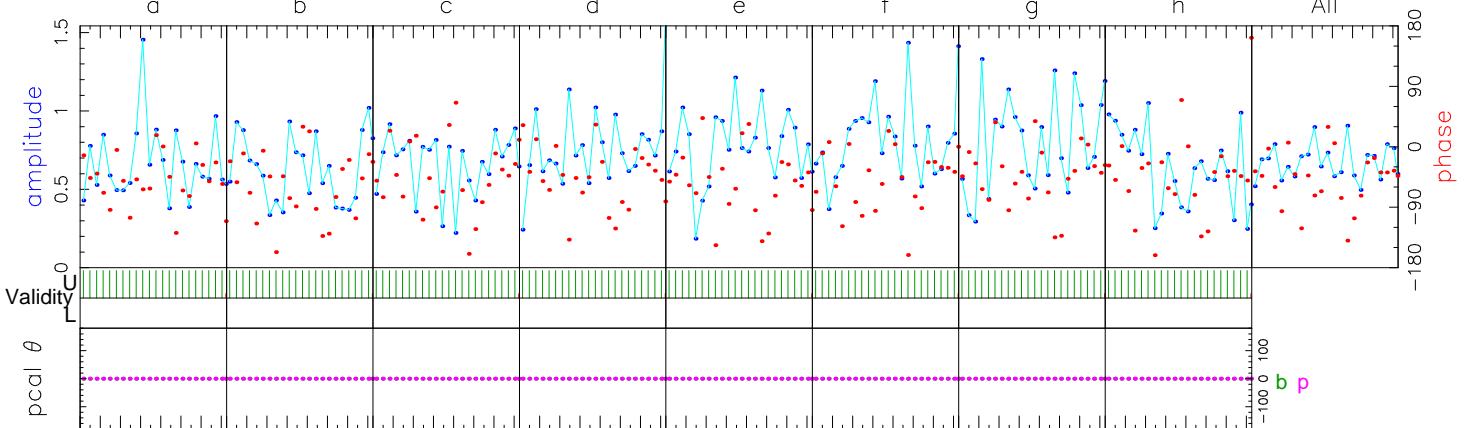
ph/seg (deg) 50.1 47.2 Search (2048X32) 0.097 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.8 82.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.0 27.8 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 63.2 48.6 Inc. frq. avg. 0.110 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 52.6 el 37.9 pa -57.6 P: az 312.2 el 63.9 pa 111.2 u,v (fr/asec) -9614.639 5089.312 ion window (TEC) 0.00 0.00
 simultaneous interpolator



Fringe quality 8
SNR 28.8
Int time 419.816
Amp 0.514
Phase -48.8
PFD 0.0e+00
Delays (us)
SBD 0.003121
MBD 0.003304
Fringe rate (Hz)
-0.005652
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125143
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



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
	-48.0	-55.5	-45.1	-45.6	-54.0	-50.6	-43.4	-49.1	Phase	-48.8
	0.6	0.4	0.5	0.5	0.5	0.5	0.6	0.5	Ampl.	0.5
	257.6	257.5	258.0	257.8	257.9	257.8	257.7	257.8	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.77396491362E+02		Apriori delay (usec)		5.77393187857E+02		Resid mbdelay (usec)		3.30350E-03	+/- 3.8E-05
Sband delay (usec)	5.77396309107E+02		Apriori clock (usec)		-8.5213070E+00		Resid sbdelay (usec)		3.12125E-03	+/- 3.0E-04
Phase delay (usec)	5.77393186285E+02		Apriori clockrate (us/s)		2.0000000E-08		Resid phdelay (usec)		-1.57234E-06	+/- 1.3E-07
Delay rate (us/s)	-1.21283214746E-01		Apriori rate (us/s)		-1.21283149132E-01		Resid rate (us/s)		-6.56146E-08	+/- 5.3E-10
Total phase (deg)	24.0		Apriori accel (us/s/s)		1.27609911808E-05		Resid phase (deg)		-48.8	+/- 4.0

ph/seg (deg) 41.4 9.5 Theor. Amplitude 0.514 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 38.1 16.6 Search (2048X32) 0.509 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 4.6 5.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.2 9.8 Inc. seg. avg. 0.669 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
b: az 52.6 el 37.9 pa -57.6 p: az 48.1 el 35.8 pa -78.4 u,v (fr/asec) 1122.454 2237.353 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bp..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bp.W.41.1X0YRU simultaneous interpolator

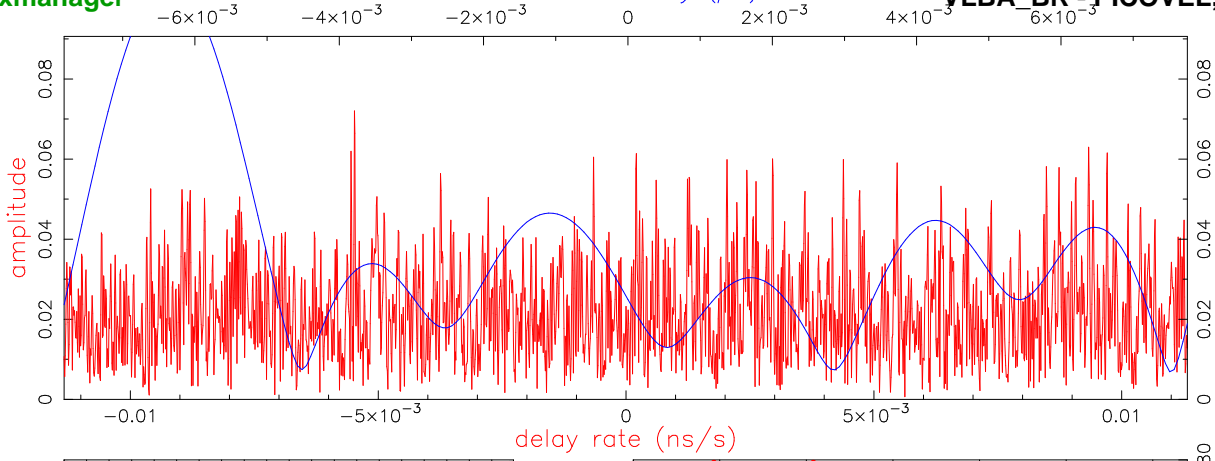
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

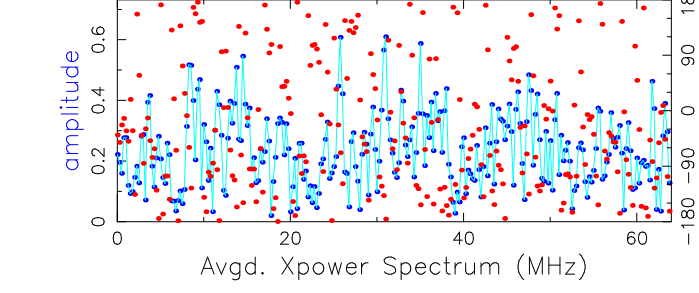
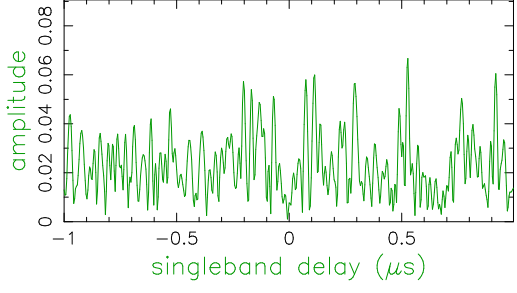
NRAO150.1X0YRU, No0085, bP

VLBA_BR - PICOVEL, fgroup W, pol LR

multiband delay (μ s)

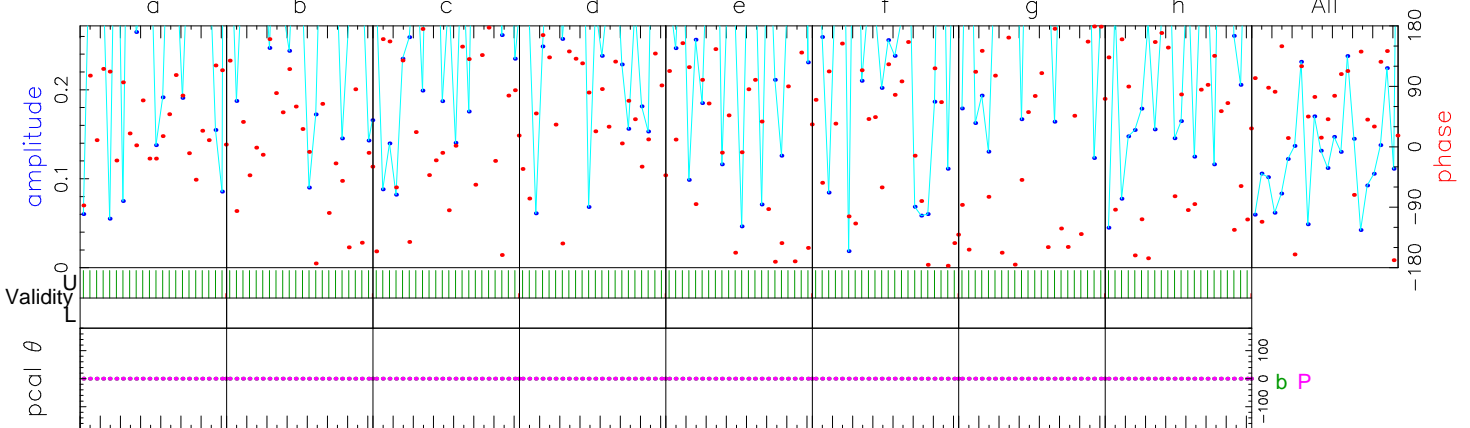


Fringe quality 0
 SNR 3.8
 Int time 419.821
 Amp 0.091
 Phase 96.3
 PFD 1.0e+00
 Delays (us)
 SBD 0.526218
 MBD 0.008301
 Fringe rate (Hz) 0.804725
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125145
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



Avgd. Xpower Spectrum (MHz)

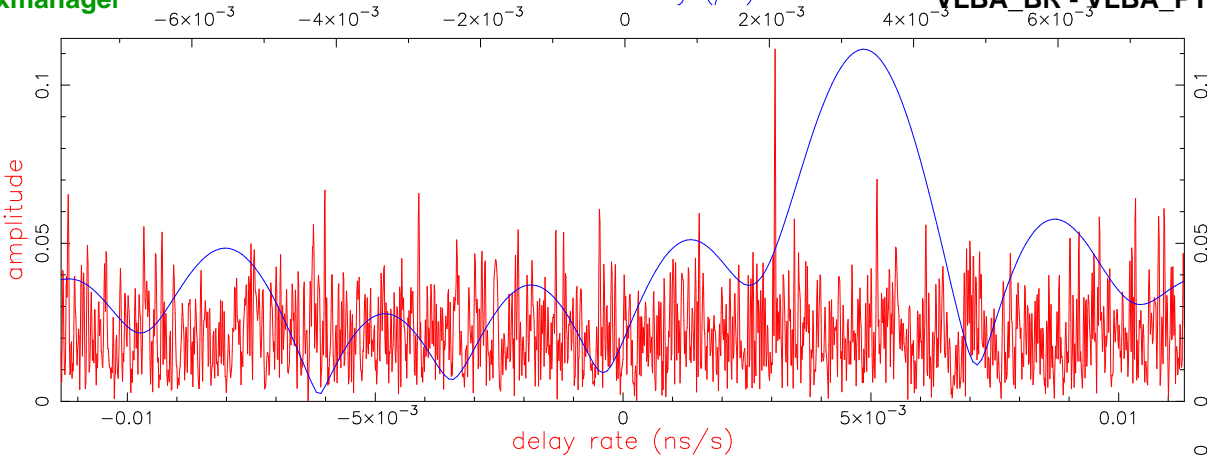
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
b	0	0	0	0	0	0	0	0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.81911600090E+03				-5.81963992668E+03				8.30078E-03	+/- 2.9E-04
Sband delay (usec)	-5.81911370818E+03				-1.9276962E+00				5.26218E-01	+/- 2.3E-03
Phase delay (usec)	-5.81963992358E+03				5.0000000E-07				3.10689E-06	+/- 9.8E-07
Delay rate (us/s)	1.06363058232E+00				1.06362124026E+00				9.34206E-06	+/- 4.0E-09
Total phase (deg)			-6.1		4.33706692344E-05				96.3	+/- 30.4
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

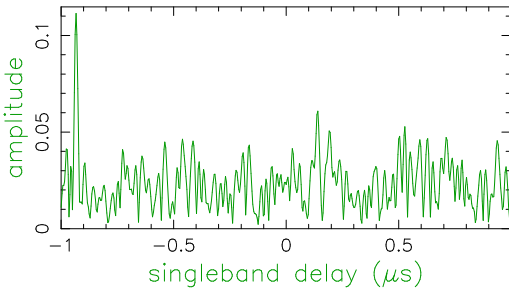
b: az 52.6 el 37.9 pa -57.6 P: az 312.2 el 63.9 pa 111.2 u,v (fr/asec) -9614.639 5089.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bP..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bP.W.52.1X0YRU

multiband delay (μ s)

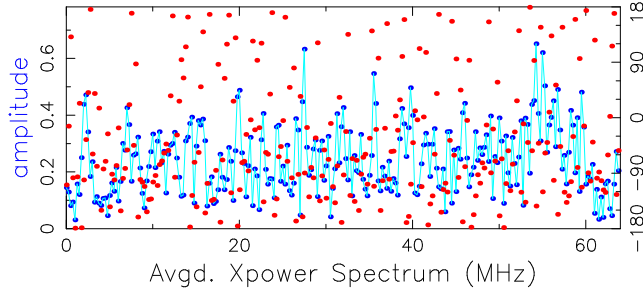


Fringe quality 0

SNR 6.2
Int time 419.816
Amp 0.115
Phase -93.6
PFD 1.1e-01
Delays (us)
SBD -0.933640
MBD 0.003305
Fringe rate (Hz)
0.264128
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

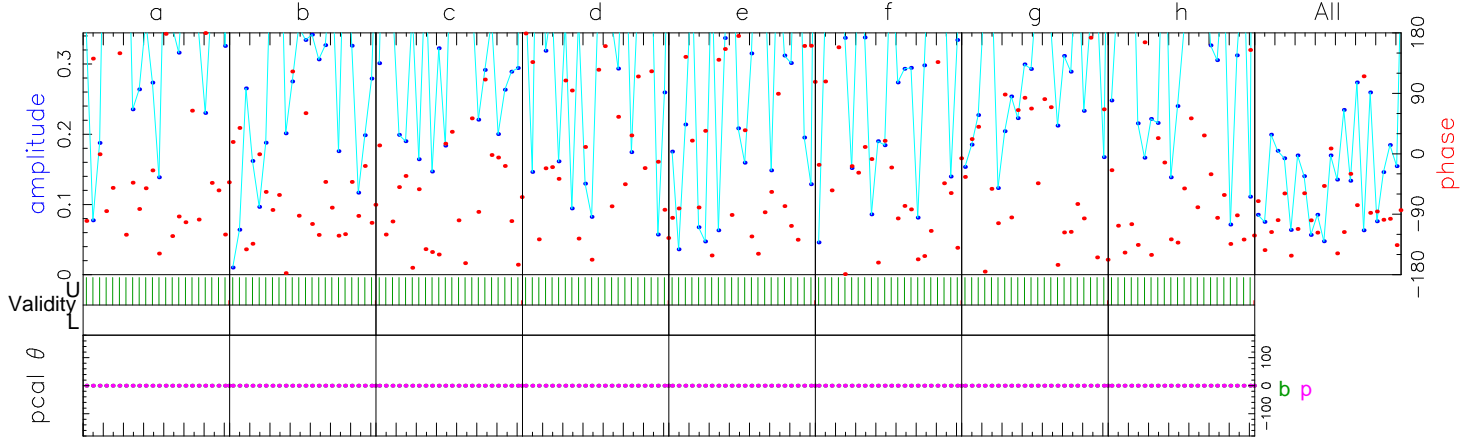


delay rate (ns/s)



Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160000.00
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125147
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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
	-90.4	-86.9	-88.7	-135.1	-133.0	-82.8	-99.1	-81.1	Phase	-93.6
	0.2	0.2	0.1	0.0	0.1	0.1	0.0	0.2	Ampl.	0.1
	495.5	293.5	240.2	40.7	269.3	431.3	418.1	18.3	Sbd box	18.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	5.76458993022E+02	Apriori delay (usec)		5.77393187857E+02	Resid mbdelay (usec)		3.30516E-03	+/-	1.7E-04	
Sband delay (usec)	5.76459547357E+02	Apriori clock (usec)		-8.5213070E+00	Resid sbdelay (usec)		-9.33640E-01	+/-	1.4E-03	
Phase delay (usec)	5.77393184838E+02	Apriori clockrate (us/s)		2.0000000E-08	Resid phdelay (usec)		-3.01918E-06	+/-	5.9E-07	
Delay rate (us/s)	-1.21280082869E-01	Apriori rate (us/s)		-1.21283149132E-01	Resid rate (us/s)		3.06626E-06	+/-	2.4E-09	
Total phase (deg)		-20.9	Apriori accel (us/s/s)		1.27609911808E-05	Resid phase (deg)		-93.6	+/-	18.4

ph/seg (deg)	49.9	Theor. 44.0	Amplitude	0.115 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	67.0	76.9	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	24.7	26.0	Inc. seg. avg.	0.113	Bits/sample: 2x2	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	58.4	45.3	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00

b: az 52.6 el 37.9 pa -57.6 p: az 48.1 el 35.8 pa -78.4 u,v (fr/asec) 1122.454 2237.353 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bp..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bp.W.62.1X0YRU

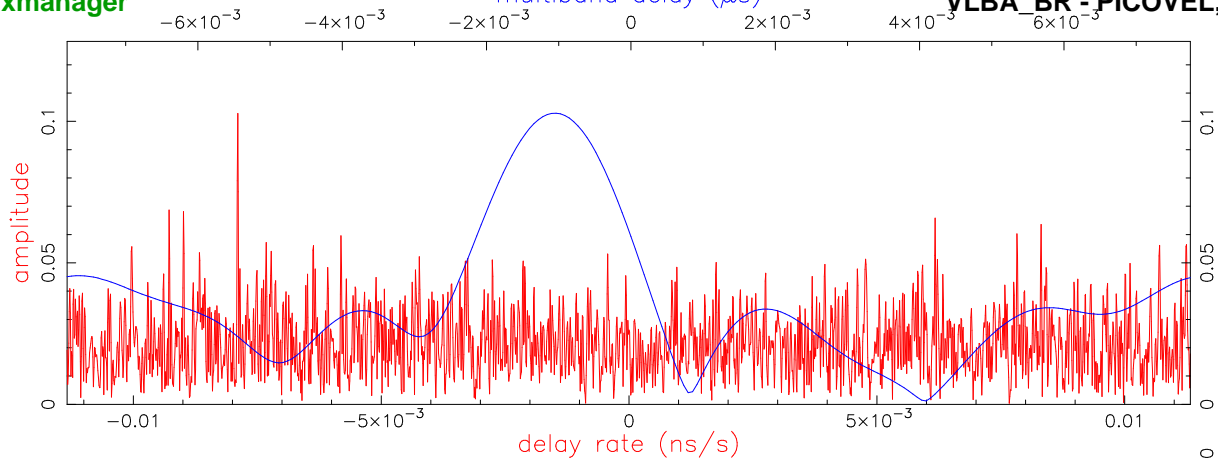
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bP

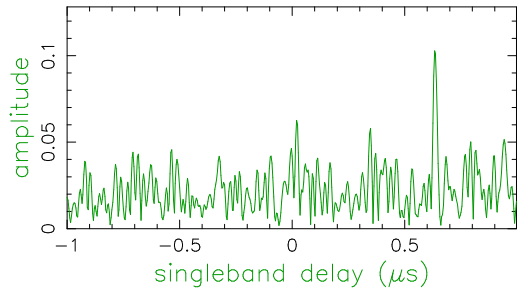
VLBA_BR - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

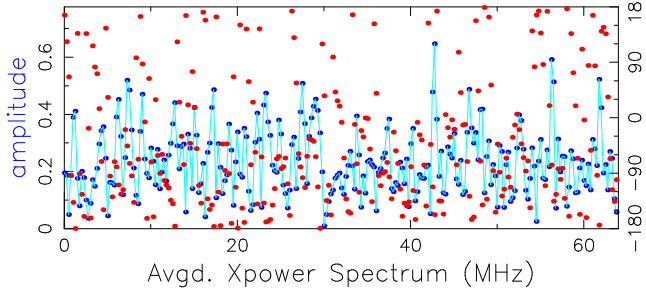


Fringe quality 0

SNR 5.8
 Int time 419.821
 Amp 0.128
 Phase 3.7
 PFD 7.4e-01
 Delays (us)
 SBD 0.634345
 MBD -0.001016
 Fringe rate (Hz)
 -0.680761
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

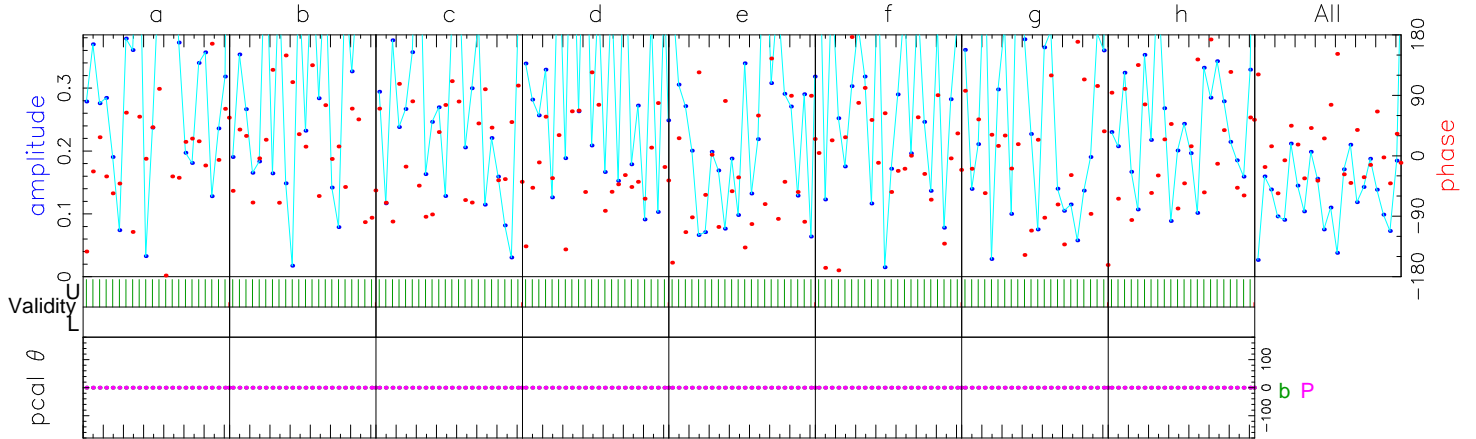


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125149
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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	0	0	0	0	0	0	0	0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-5.81900031774E+03	Apriori delay (usec)	-5.81963992668E+03	Resid mbdelay (usec)	-1.01606E-03	+/-	1.9E-04
Sband delay (usec)	-5.81900558143E+03	Apriori clock (usec)	-1.9276962E+00	Resid sbdelay (usec)	6.34345E-01	+/-	1.5E-03
Phase delay (usec)	-5.81963992656E+03	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	1.20590E-07	+/-	6.3E-07
Delay rate (us/s)	1.06361333729E+00	Apriori rate (us/s)	1.06362124026E+00	Resid rate (us/s)	-7.90296E-06	+/-	2.6E-09
Total phase (deg)	-98.7	Apriori accel (us/s/s)	4.33706692344E-05	Resid phase (deg)	3.7	+/-	19.6

ph/seg (deg)	53.9	RMS	47.1	Theor.	53.9	Amplitude	0.128 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	62.4	Search (2048X32)	0.101	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.101	sb window (us)	-1.000	1.000	
ph/frq (deg)	39.0	Inc. seg. avg.	0.123	Inc. frq. avg.	0.128	Bits/sample: 2x2	0.123	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	36.8	Inc. frq. avg.	0.128	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	dr window (ns/s)	-0.011	0.011
								t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 52.6 el 37.9 pa -57.6 P: az 312.2 el 63.9 pa 111.2 u,v (fr/asec) -9614.639 5089.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bP..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bP.W.72.1X0YRU

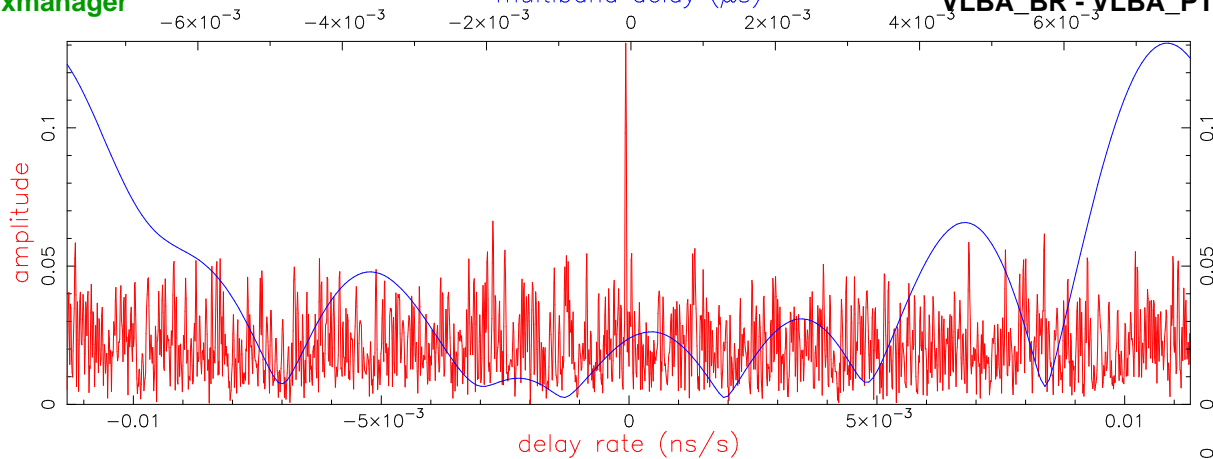
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bp

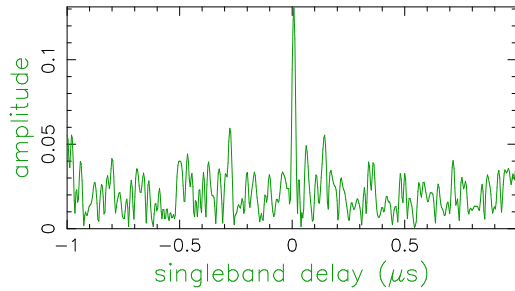
VLBA_BR - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

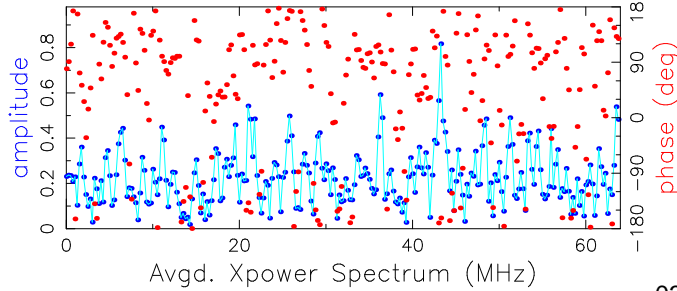


Fringe quality 9

SNR 7.4
 Int time 419.816
 Amp 0.131
 Phase 110.0
 PFD 5.9e-05
 Delays (us)
 SBD 0.006964
 MBD 0.007418
 Fringe rate (Hz)
 -0.005971
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

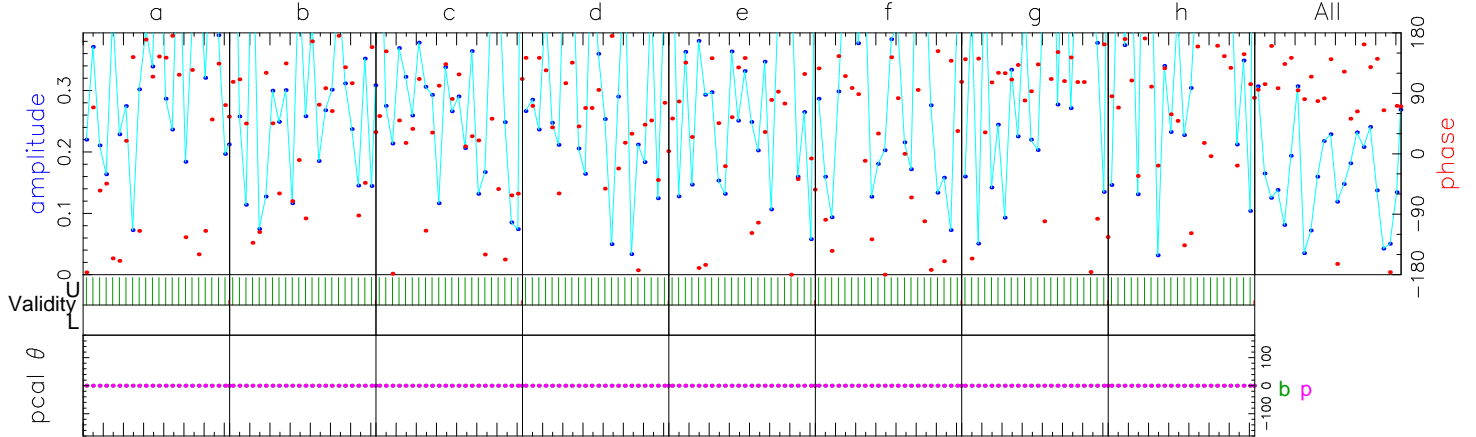


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125151
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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	0	0	0	0	0	0	0	0		
p	0	0	0	0	0	0	0	0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	5.77400605362E+02	Apriori delay (usec)	5.77393187857E+02	Resid mbdelay (usec)	7.41750E-03	+/-	1.5E-04
Sband delay (usec)	5.77400151857E+02	Apriori clock (usec)	-8.5213070E+00	Resid sbdelay (usec)	6.96400E-03	+/-	1.2E-03
Phase delay (usec)	5.77393191403E+02	Apriori clockrate (us/s)	2.0000000E-08	Resid phdelay (usec)	3.54563E-06	+/-	5.0E-07
Delay rate (us/s)	-1.21283218445E-01	Apriori rate (us/s)	-1.21283149132E-01	Resid rate (us/s)	-6.93132E-08	+/-	2.1E-09
Total phase (deg)	182.7	Apriori accel (us/s/s)	1.27609911808E-05	Resid phase (deg)	110.0	+/-	15.6

ph/seg (deg)	RMS 39.7	Theor. 37.4	Amplitude 0.131 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	62.2	65.2	Search (2048X32) 0.128	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	30.4	22.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	32.8	38.4	Inc. seg. avg. 0.133	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 0.135	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 p: az 48.1 el 35.8 pa -78.4 u,v (fr/asec) 1122.454 2237.353 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bp..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bp.W.80.1X0YRU

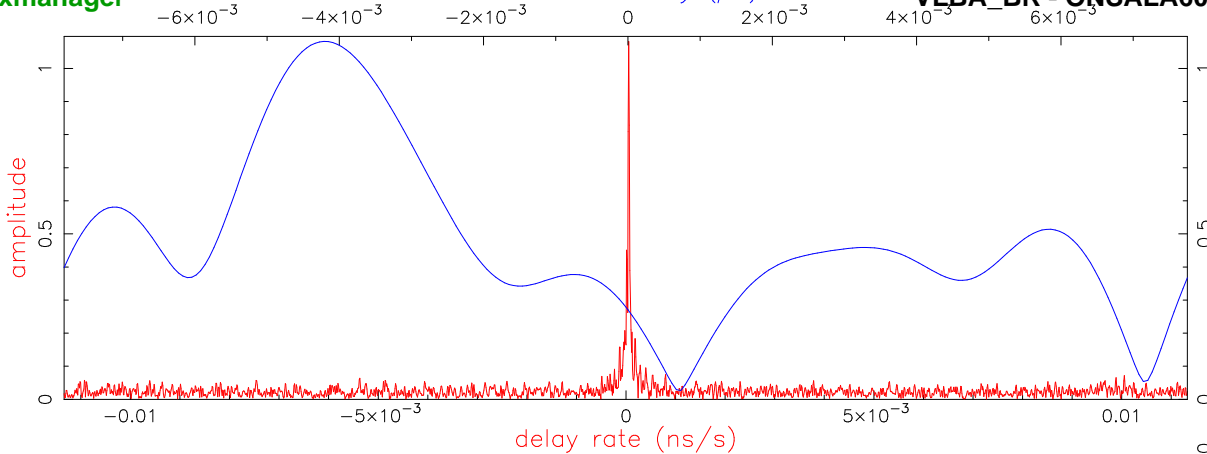
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bX

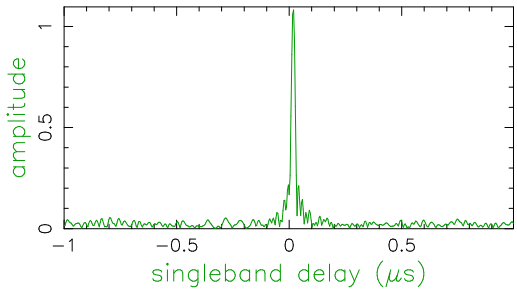
VLBA_BR - ONSALA60, fgroup W, pol RR

multiband delay (μ s)

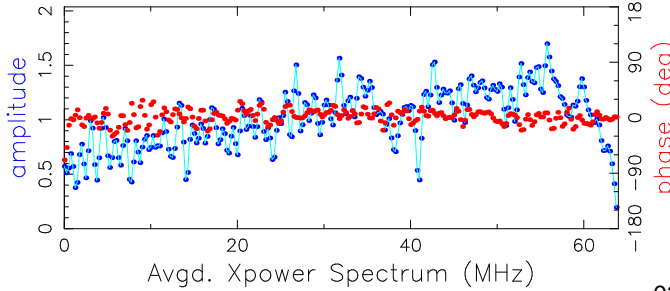


Fringe quality 3

SNR 61.5
 Int time 419.788
 Amp 1.097
 Phase -104.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.017991
 MBD -0.004227
 Fringe rate (Hz)
 0.004687
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

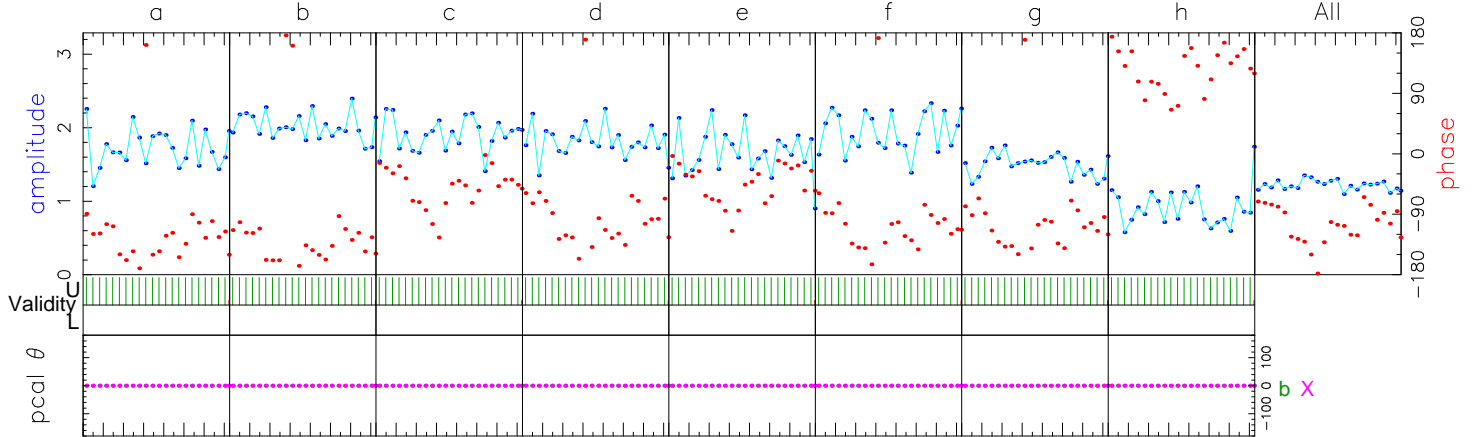


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125156
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-128.0	-137.4	-49.6	-103.6	-44.7	-112.4	-113.3	125.8	Phase	-104.1
	1.5	1.8	1.7	1.5	1.5	1.7	1.3	0.8	Ampl.	1.5
	261.4	261.9	261.5	261.0	261.0	261.1	260.3	259.0	Sbd box	261.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.66101787940E+03		Apriori delay (usec)		-5.66102927723E+03		Resid mbdelay (usec)		-4.22717E-03	+/- 1.8E-05
Sband delay (usec)	-5.66101128573E+03		Apriori clock (usec)		-5.9478737E+01		Resid sbdelay (usec)		1.79915E-02	+/- 1.4E-04
Phase delay (usec)	-5.66102928059E+03		Apriori clockrate (us/s)		-6.2799998E-07		Resid phdelay (usec)		-3.35736E-06	+/- 6.0E-08
Delay rate (us/s)	1.03726437677E+00		Apriori rate (us/s)		1.03726432236E+00		Resid rate (us/s)		5.44087E-08	+/- 2.5E-10
Total phase (deg)			Apriori accel (us/s/s)		2.1195648924E-05		Resid phase (deg)		-104.1	+/- 1.9

ph/seg (deg) 28.0 4.5 Search (2048X32) 1.067 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 12.8 7.8 Interp. 0.007 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.9 2.6 Inc. seg. avg. 1.218 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.2 4.6 Inc. frq. avg. 1.473 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 52.6 el 37.9 pa -57.6 X: az 276.8 el 62.6 pa 58.1 u,v (fr/asec) -9407.491 1598.575 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bX..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bX.W.101.1X0YRU

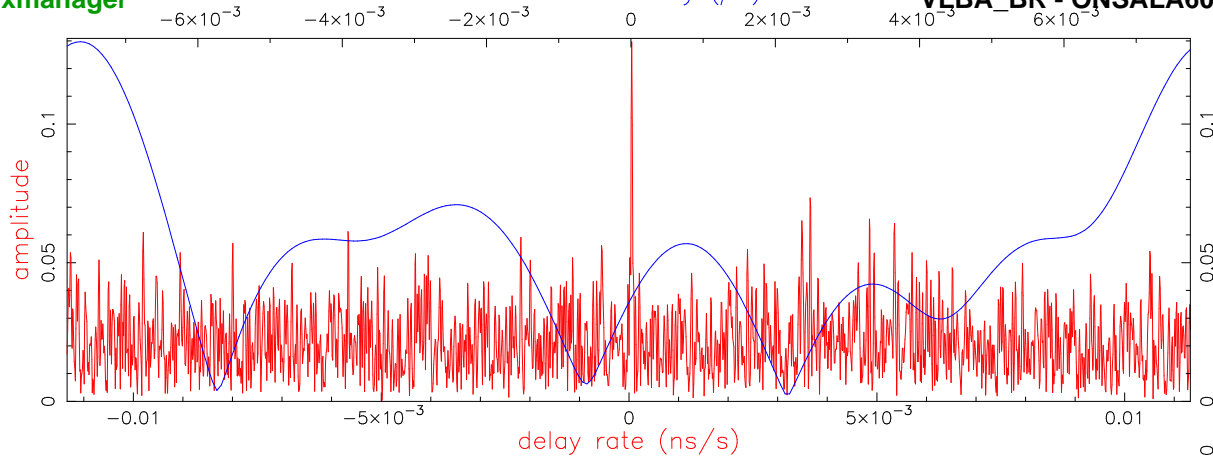
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bX

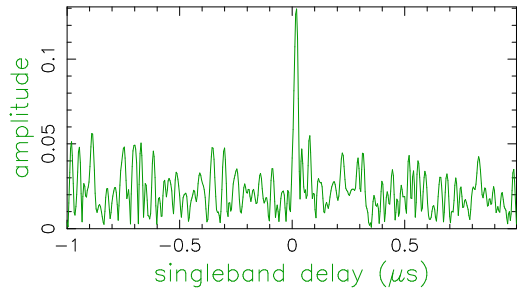
VLBA_BR - ONSALA60, fgroup W, pol LR

multiband delay (μ s)

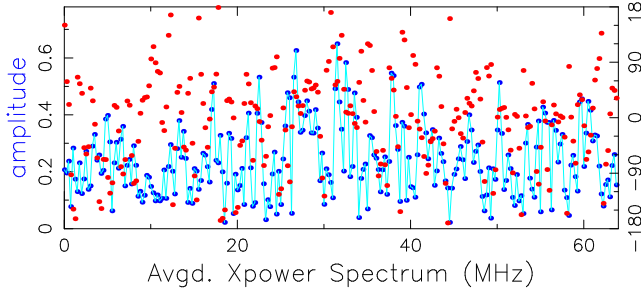


Fringe quality 9

SNR 7.3
 Int time 419.788
 Amp 0.131
 Phase -58.1
 PFD 7.1e-05
 Delays (us)
 SBD 0.018200
 MBD -0.007650
 Fringe rate (Hz)
 0.004872
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

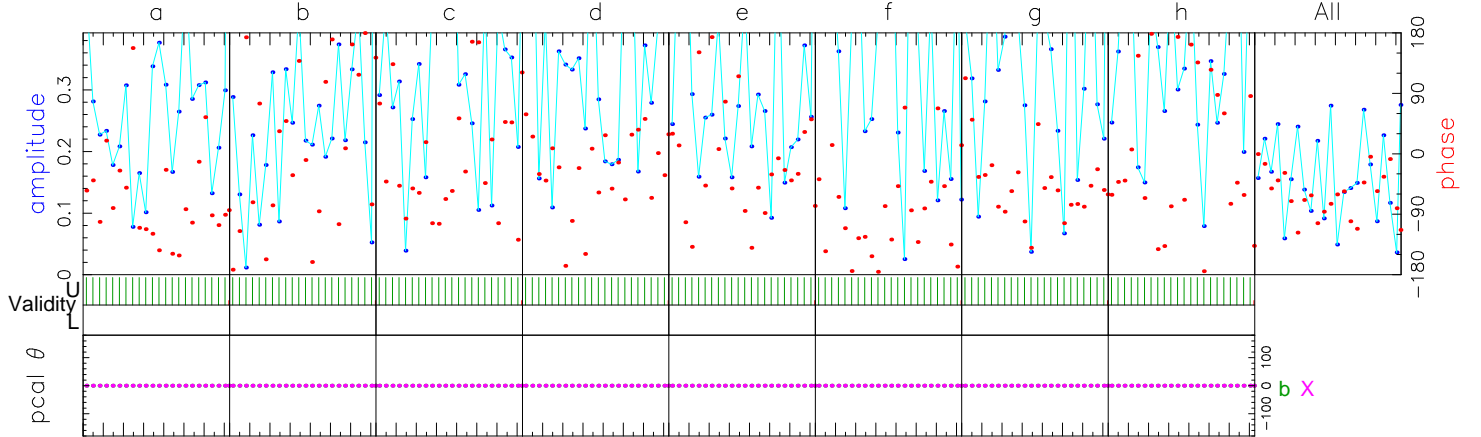


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125201
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	-78.1	-174.7	-51.2	-10.9	-32.1	-100.6	-46.6	-84.8	Phase	-58.1
	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.1	Ampl.	0.1
	260.5	6.9	365.7	261.4	388.7	260.7	260.8	257.1	Sbd box	261.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.66100567772E+03		Apriori delay (usec)		-5.66102927723E+03		Resid mbdelay (usec)		-7.65048E-03	+/- 1.5E-04
Sband delay (usec)	-5.66101107698E+03		Apriori clock (usec)		-5.9478737E+01		Resid sbdelay (usec)		1.82003E-02	+/- 1.2E-03
Phase delay (usec)	-5.66102927911E+03		Apriori clockrate (us/s)		-6.2799998E-07		Resid phdelay (usec)		-1.87324E-06	+/- 5.0E-07
Delay rate (us/s)	1.03726437891E+00		Apriori rate (us/s)		1.03726432236E+00		Resid rate (us/s)		5.65549E-08	+/- 2.1E-09
Total phase (deg)			Apriori accel (us/s/s)		2.11955648924E-05		Resid phase (deg)		-58.1	+/- 15.6

	RMS	Theor.	Amplitude	0.131 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	33.7	37.5	Search (2048X32)	0.128	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	56.9	65.4	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	57.2	22.1	Inc. seg. avg.	0.130	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	56.9	38.6	Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 52.6 el 37.9 pa -57.6 X: az 276.8 el 62.6 pa 58.1 u,v (fr/asec) -9407.491 1598.575 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bX..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bX.W.123.1X0YRU

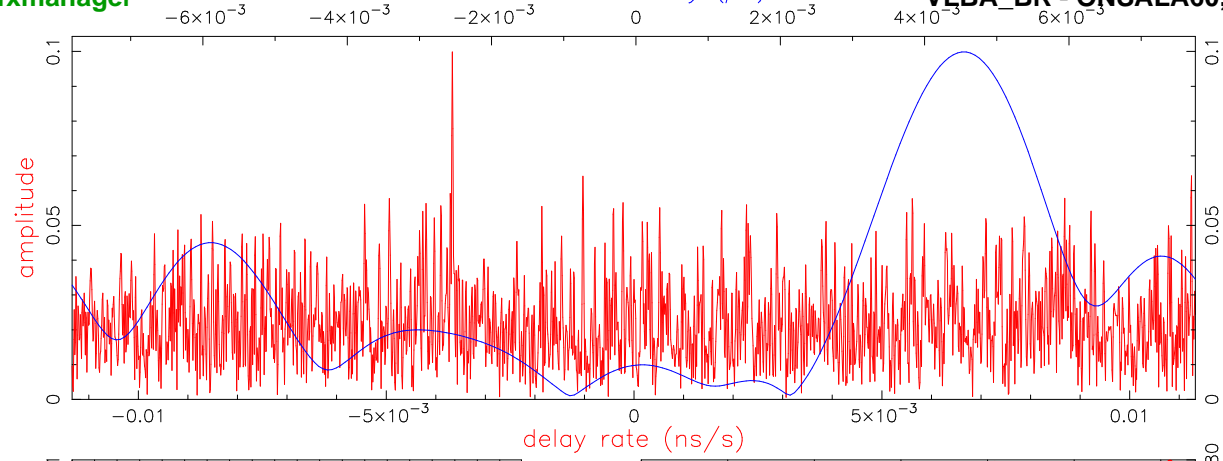
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

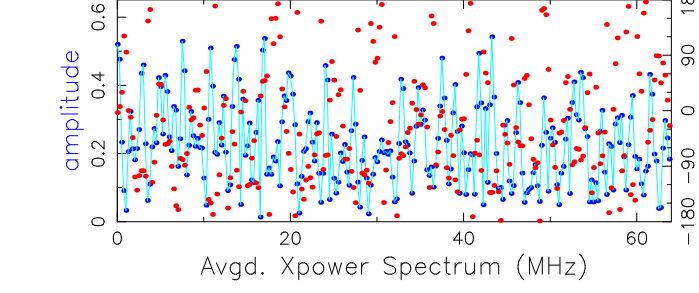
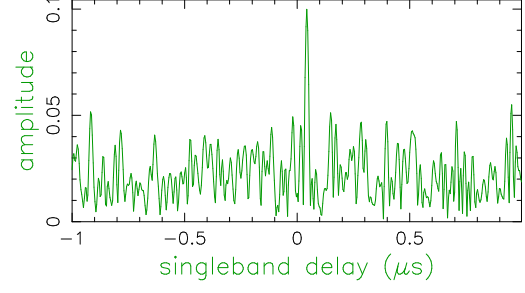
NRAO150.1X0YRU, No0085, bX

VLBA_BR - ONSALA60, fgroup W, pol RL

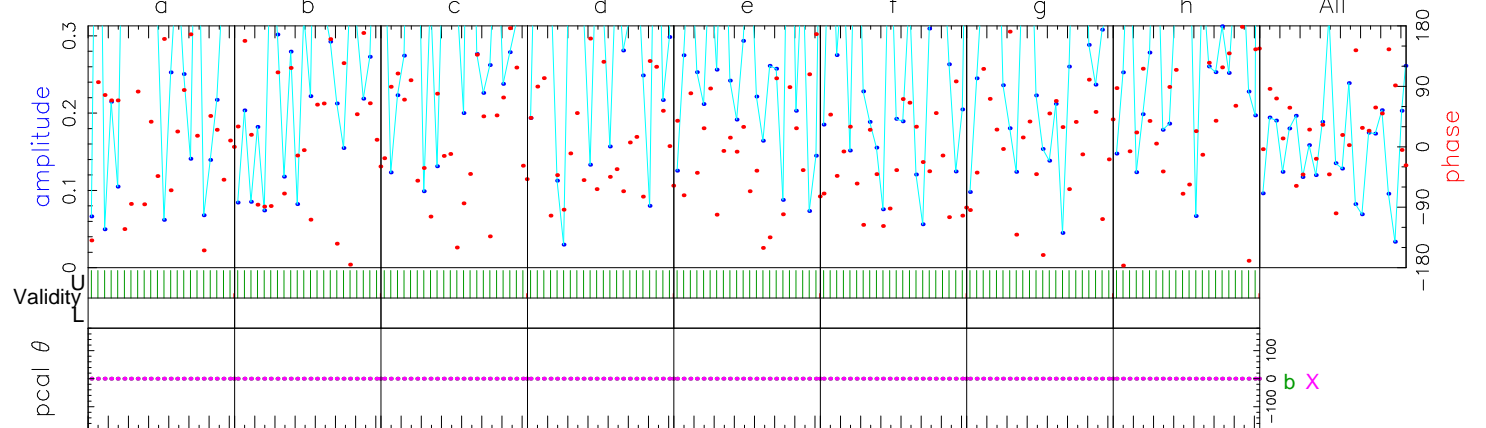
multiband delay (μ s)



Fringe quality 0
 SNR 5.6
 Int time 419.788
 Amp 0.104
 Phase 17.0
 PFD 9.9e-01
 Delays (us)
 SBD 0.042774
 MBD 0.004542
 Fringe rate (Hz)
 -0.315765
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125205
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"



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	0	0	0	0	0	0	0	0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.66099348514E+03								4.54210E-03	+/- 1.9E-04
Sband delay (usec)	-5.66098650273E+03								4.27745E-02	+/- 1.5E-03
Phase delay (usec)	-5.66102927669E+03								5.48134E-07	+/- 6.6E-07
Delay rate (us/s)	1.03726065664E+00								-3.66571E-06	+/- 2.7E-09
Total phase (deg)			-321.7						17.0	+/- 20.5
Apriori delay (usec)					-5.66102927723E+03					
Apriori clock (usec)					-5.9478737E+01					
Apriori clockrate (us/s)					-6.2799998E-07					
Apriori rate (us/s)					1.03726432236E+00					
Apriori accel (us/s/s)					2.11955648924E-05					
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								
Bits/sample:	2x2									
Sample rate (MSamp/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								

b: az 52.6 el 37.9 pa -57.6 X: az 276.8 el 62.6 pa 58.1 u,v (fr/asec) -9407.491 1598.575 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bX..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bX.W.142.1X0YRU

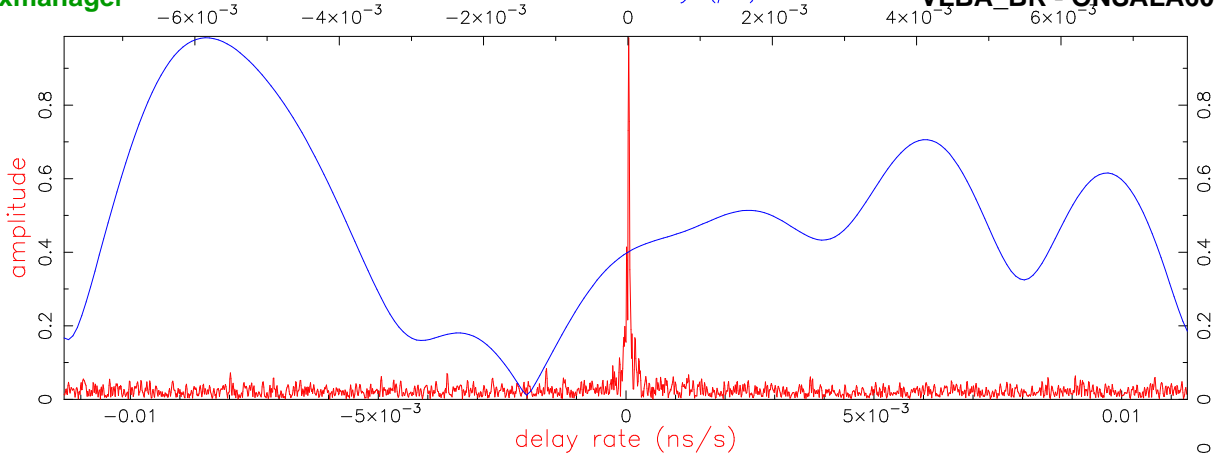
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bX

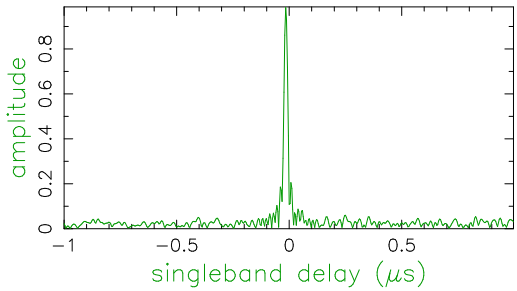
VLBA_BR - ONSALA60, fgroup W, pol LL

multiband delay (μ s)

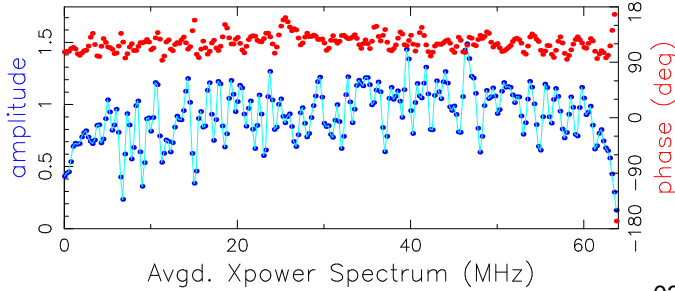


Fringe quality 3

SNR 55.3
 Int time 419.788
 Amp 0.987
 Phase 18.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.014822
 MBD -0.005850
 Fringe rate (Hz)
 0.004678
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

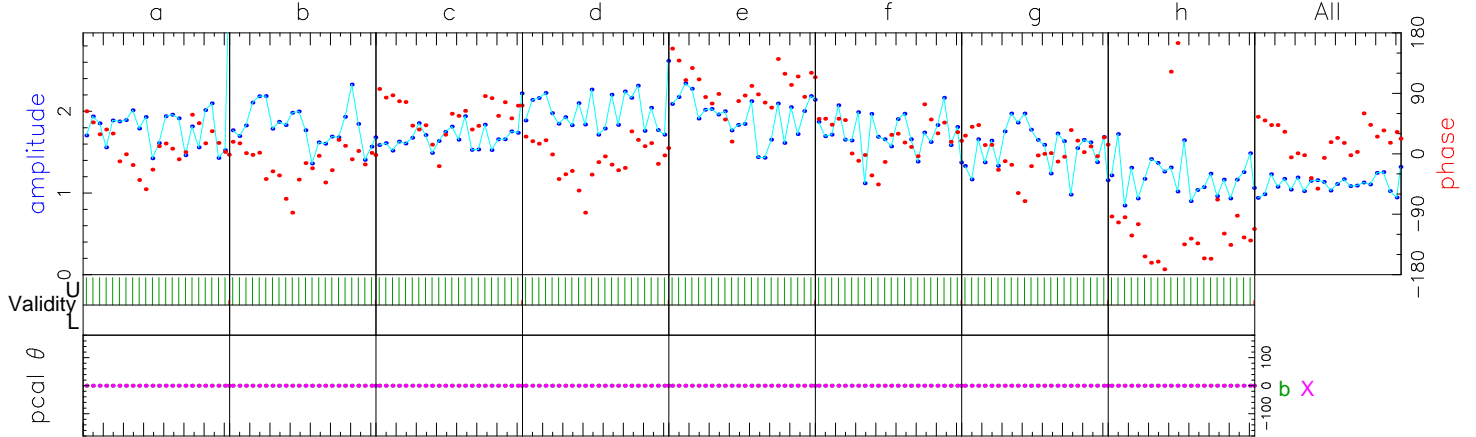


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160000.00
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125153
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	11.9	-15.0	57.8	-7.4	99.7	23.4	-1.3	-134.1		Phase 18.3
	1.6	1.6	1.5	1.8	1.7	1.5	1.4	1.0		Ampl. 1.5
	253.1	252.9	253.1	252.7	252.6	252.4	252.0	250.4		Sbd box 253.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used
b	0	0	0	0	0	0	0	0		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
b:X	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
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd)	-5.66105075190E+03	Apriori delay (usec)	-5.66102927723E+03	Resid mbdelay (usec)	-5.84967E-03	+/-	2.0E-05
Sband delay (usec)	-5.66104409923E+03	Apriori clock (usec)	-5.9478737E+01	Resid sbdelay (usec)	-1.48220E-02	+/-	1.6E-04
Phase delay (usec)	-5.66102927664E+03	Apriori clockrate (us/s)	-6.2799998E-07	Resid phdelay (usec)	5.89188E-07	+/-	6.7E-08
Delay rate (us/s)	1.03726437666E+00	Apriori rate (us/s)	1.03726432236E+00	Resid rate (us/s)	5.43039E-08	+/-	2.8E-10
Total phase (deg)	-320.4	Apriori accel (us/s/s)	2.11955648924E-05	Resid phase (deg)	18.3	+/-	2.1

ph/seg (deg)	27.8	Theor.	5.0	Search (2048X32)	0.979	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	15.1		8.7	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)	74.9		2.9	Inc. seg. avg.	1.102	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	57.1		5.1	Inc. frq. avg.	1.502	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 52.6 el 37.9 pa -57.6 X: az 276.8 el 62.6 pa 58.1 u,v (fr/asec) -9407.491 1598.575 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bX..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bX.W.82.1X0YRU

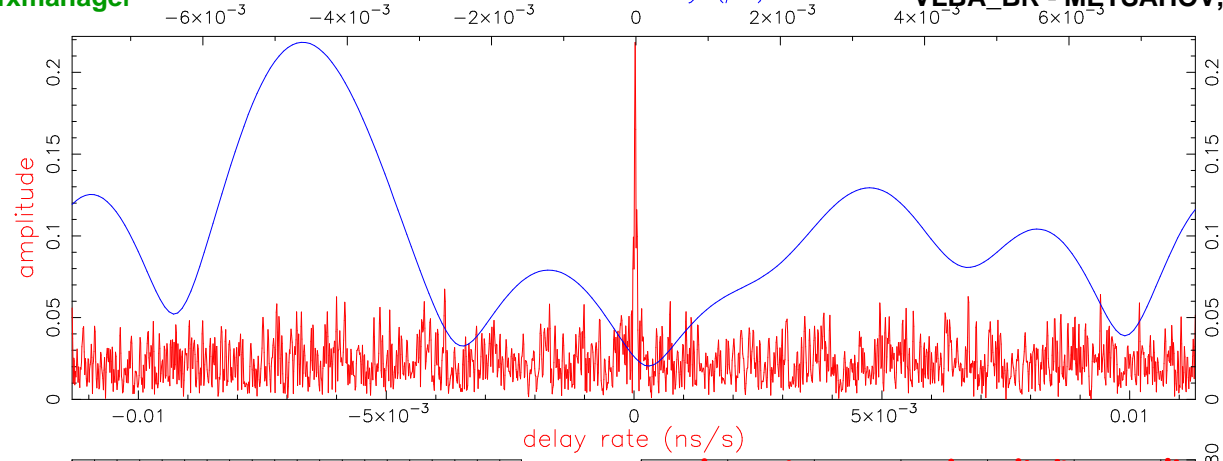
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bZ

VLBA_BR - METSAHOV, fgroup W, pol RR

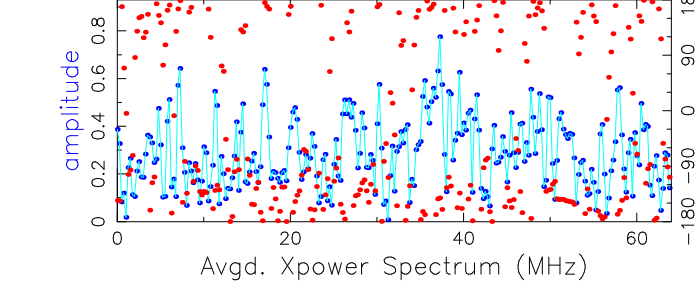
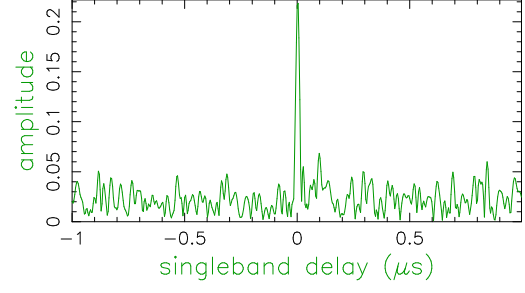
multiband delay (μ s)



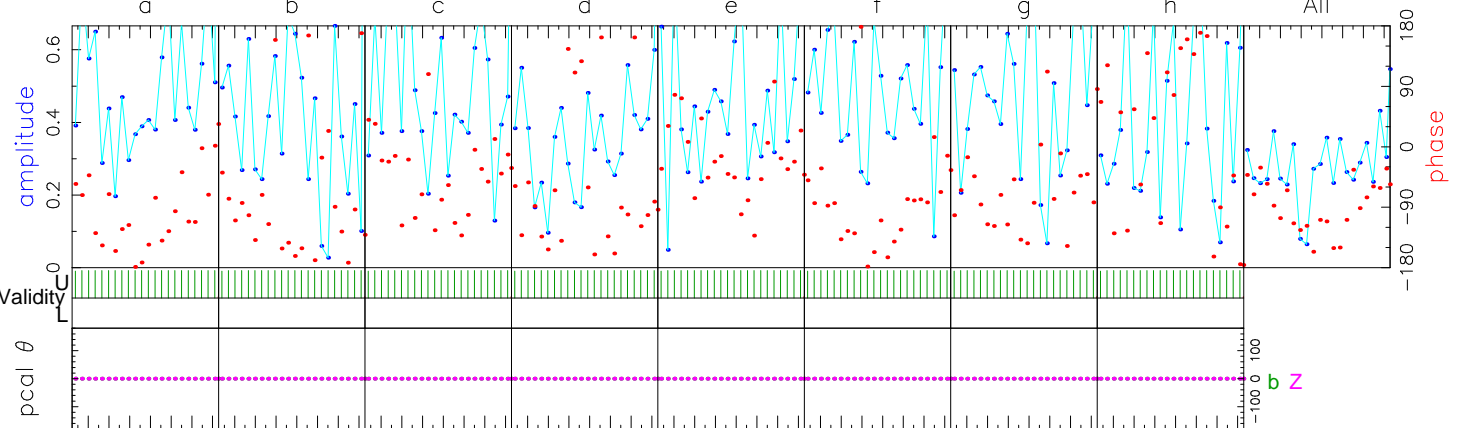
Fringe quality 9

SNR 12.2
 Int time 405.703
 Amp 0.222
 Phase -86.3
 PFD 1.1e-25
 Delays (us)
 SBD 0.002218
 MBD -0.004627
 Fringe rate (Hz) 0.001844
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160013.31
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125156
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'59.161694"



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
	-93.7	-125.1	-42.2	-118.2	-20.7	-94.6	-80.0	152.1	Phase	-86.3
	0.3	0.3	0.3	0.2	0.3	0.4	0.4	0.2	Ampl.	0.3
	257.4	257.6	258.3	256.7	257.0	256.6	256.4	255.1	Sbd box	257.6
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.4787889683E+03		Apriori delay (usec)		-4.47878433990E+03		Resid mbdelay (usec)		-4.62693E-03	+/- 8.9E-05
Sband delay (usec)	-4.47878212190E+03		Apriori clock (usec)		-2.2690144E+00		Resid sbdelay (usec)		2.21800E-03	+/- 7.0E-04
Phase delay (usec)	-4.47878434269E+03		Apriori clockrate (us/s)		-1.1600000E-07		Resid phdelay (usec)		-2.78446E-06	+/- 3.0E-07
Delay rate (us/s)	1.06952731429E+00		Apriori rate (us/s)		1.06952729288E+00		Resid rate (us/s)		2.14069E-08	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.29682394191E-05		Resid phase (deg)		-86.3	+/- 9.4

ph/seg (deg) 38.1 22.5 Search (2048X32) 0.214 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 44.5 39.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 62.9 13.3 Inc. seg. avg. 0.254 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.7 23.1 Inc. frq. avg. 0.286 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 52.6 el 37.9 pa -57.6 Z: az 281.0 el 56.7 pa 50.9 u,v (fr/asec) -9714.344 660.026 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bZ..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bZ.W.100.1X0YRU

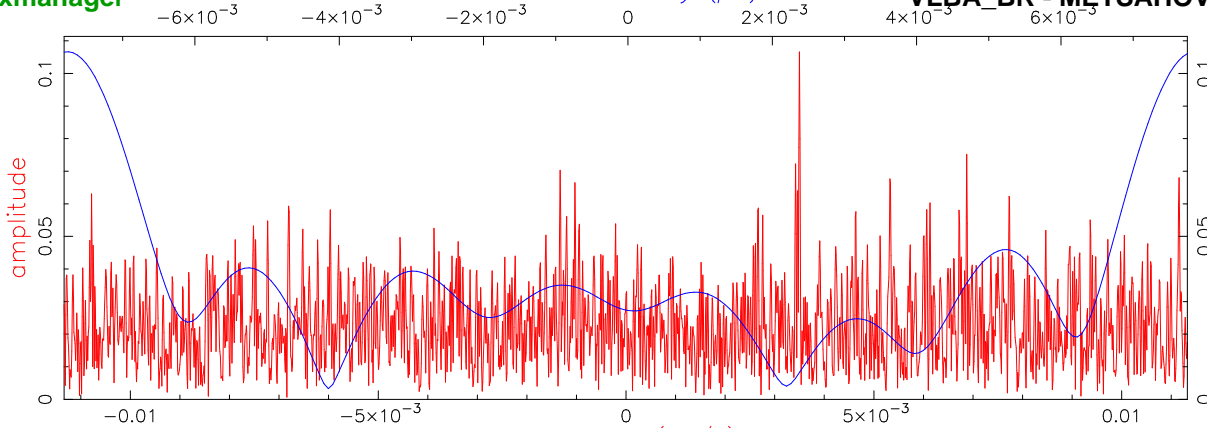
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bZ

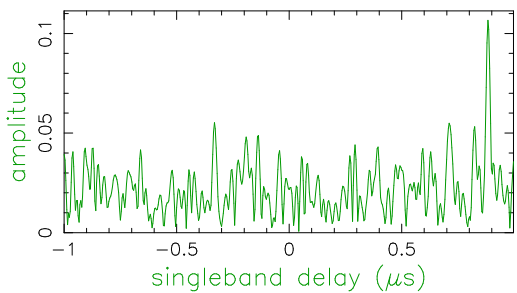
VLBA_BR - METSAHOV, fgroup W, pol LR

multiband delay (μ s)

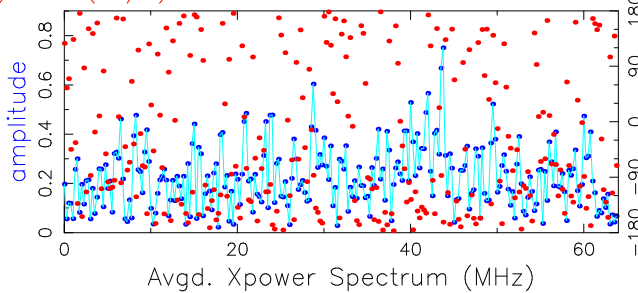


Fringe quality 0

SNR 5.9
Int time 405.703
Amp 0.111
Phase -135.3
PFD 6.1e-01
Delays (us)
SBD 0.883706
MBD 0.007891
Fringe rate (Hz) 0.301561
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

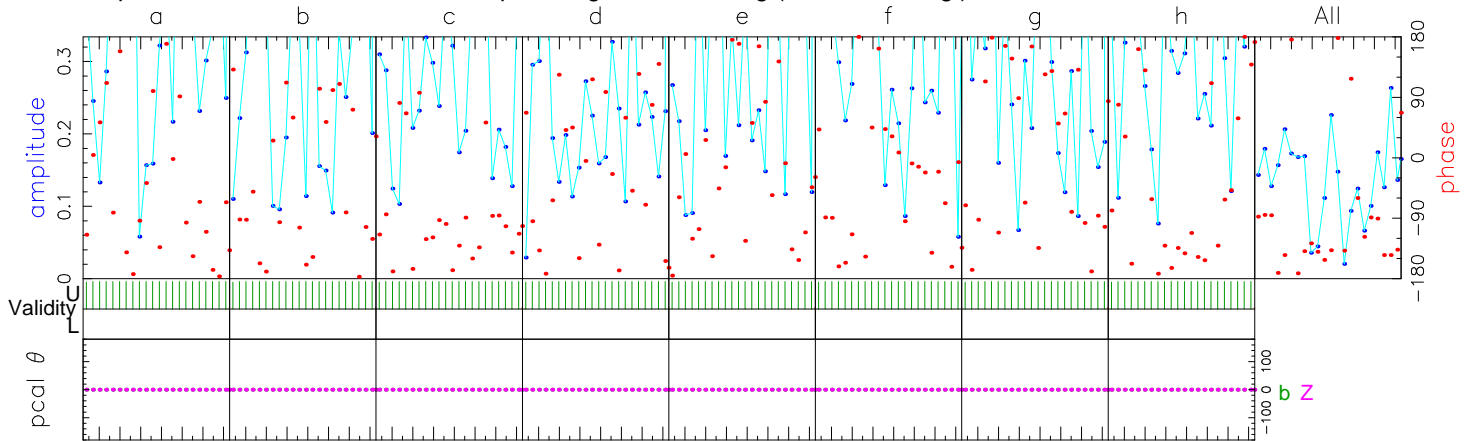


delay rate (ns/s)



Exp. c211c
Exper # 16383
Yr:day 2021:116
Start 160013.31
Stop 160659.84
FRT 160330.00
Corr/FF/build
2021:303:125433
2021:304:125200
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

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		
b	0	0	0	0	0	0	0	0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-4.47790144868E+03	Apriori delay (usec)	-4.47878433990E+03	Resid mbdelay (usec)	7.89122E-03	+/-	1.8E-04
Sband delay (usec)	-4.47790063415E+03	Apriori clock (usec)	-2.2690144E+00	Resid sbdelay (usec)	8.83706E-01	+/-	1.5E-03
Phase delay (usec)	-4.47878434426E+03	Apriori clockrate (us/s)	-1.1600000E-07	Resid phdelay (usec)	-4.36199E-06	+/-	6.3E-07
Delay rate (us/s)	1.06953079370E+00	Apriori rate (us/s)	1.06952729288E+00	Resid rate (us/s)	3.50082E-06	+/-	2.7E-09
Total phase (deg)	-149.4	Apriori accel (us/s/s)	1.29682394191E-05	Resid phase (deg)	-135.3	+/-	19.4

ph/seg (deg)	41.5	Theor.	46.6	Amplitude	0.111 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	61.7		81.3	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	27.9		27.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	38.1		48.0	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.108	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 52.6 el 37.9 pa -57.6 Z: az 281.0 el 56.7 pa 50.9 u,v (fr/asec) -9714.344 660.026 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bZ..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bZ.W.120.1X0YRU

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

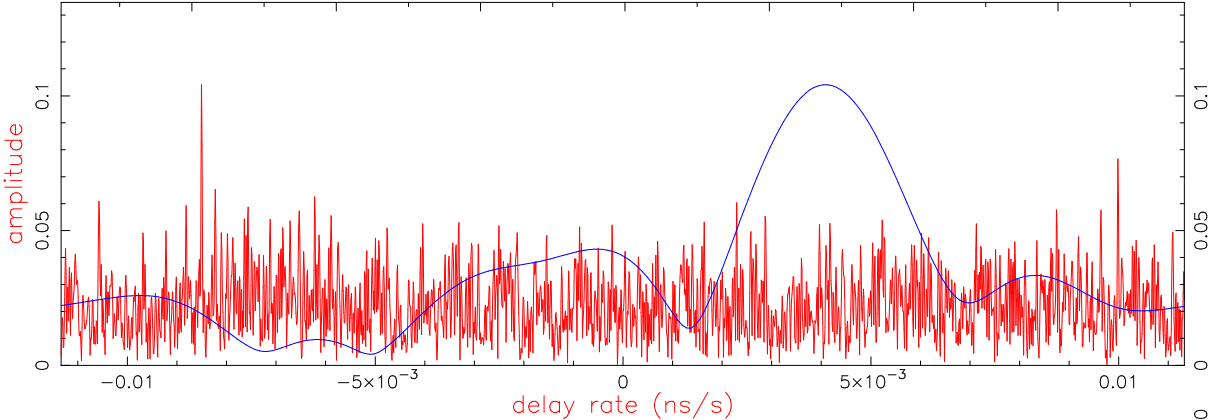
NRAO150.1X0YRU, No0085, bZ

VLBA_BR - METSAHOV, fgroup W, pol RL

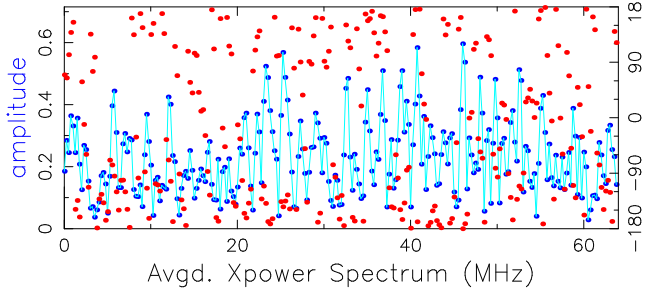
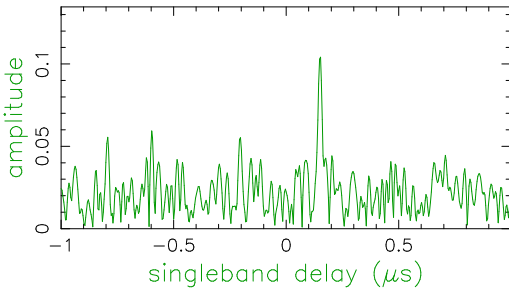
multiband delay (μ s)

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

Fringe quality 0

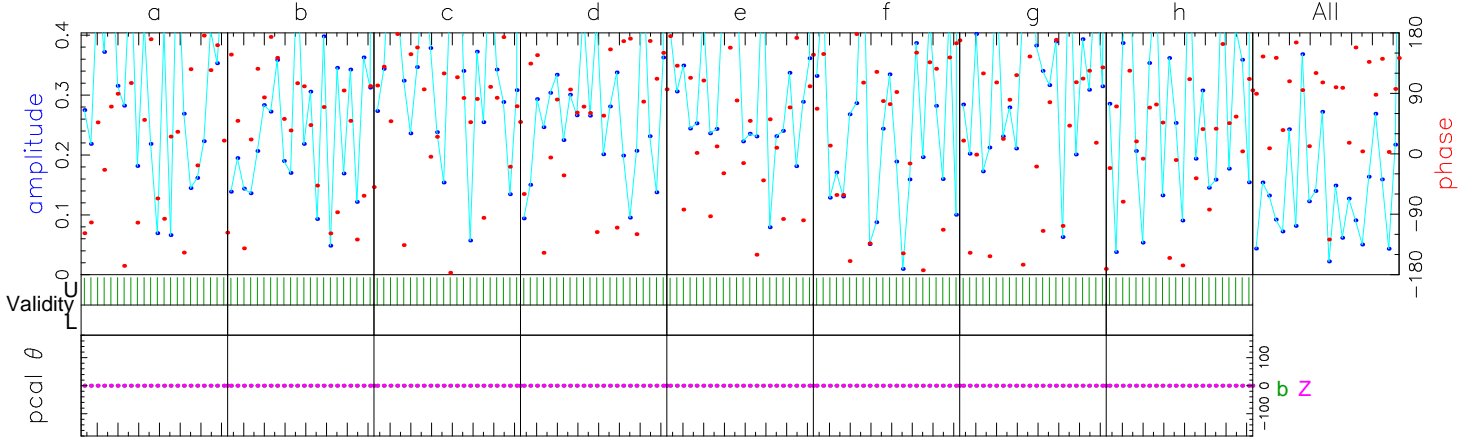


SNR 5.8
 Int time 405.703
 Amp 0.135
 Phase 100.5
 PFD 7.9e-01
 Delays (us)
 SBD 0.150706
 MBD 0.002771
 Fringe rate (Hz)
 -0.733459
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160013.31
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125205
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	78.0	84.8	108.6	117.0	76.5	131.8	103.4	64.3	Phase	100.5
	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	309.7	292.8	295.3	355.1	432.0	294.4	97.2	350.3	Sbd box	295.6
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.47864094403E+03				-4.47878433990E+03				Resid mbdelay (usec)	2.77087E-03 +/- 1.9E-04
Sband delay (usec)	-4.47863363440E+03				-2.2690144E+00				Resid sbdelay (usec)	1.50706E-01 +/- 1.5E-03
Phase delay (usec)	-4.47878433666E+03				-1.1600000E-07				Resid phdelay (usec)	3.23976E-06 +/- 6.4E-07
Delay rate (us/s)	1.06951877815E+00				1.06952729288E+00				Resid rate (us/s)	-8.51473E-06 +/- 2.7E-09
Total phase (deg)			86.4		1.29682394191E-05				Resid phase (deg)	100.5 +/- 19.7

	RMS	Theor.	Amplitude	0.135 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.0	47.3	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	91.9	82.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.7	27.9	Inc. seg. avg.	0.134	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.1	48.7	Inc. frq. avg.	0.128	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 52.6 el 37.9 pa -57.6 Z: az 281.0 el 56.7 pa 50.9 u,v (fr/asec) -9714.344 660.026 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bZ..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bZ.W.145.1X0YRU

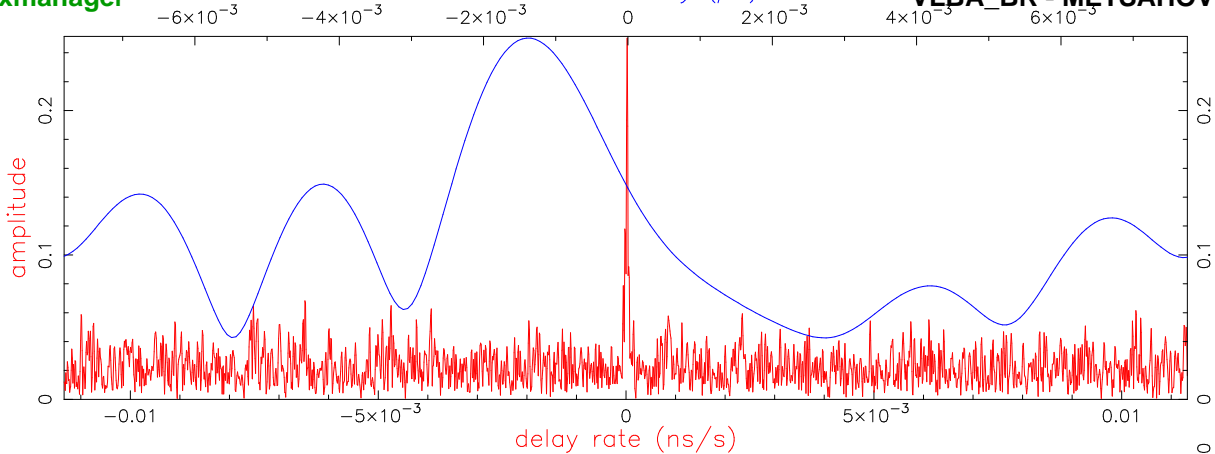
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

NRAO150.1X0YRU, No0085, bZ

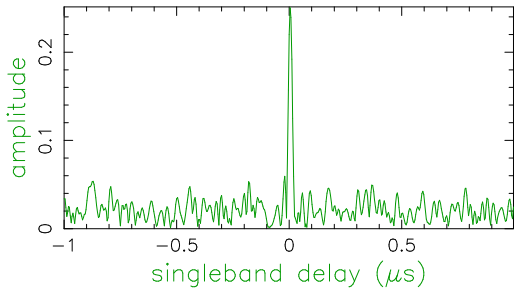
VLBA_BR - METSAHOV, fgroup W, pol LL

multiband delay (μ s)

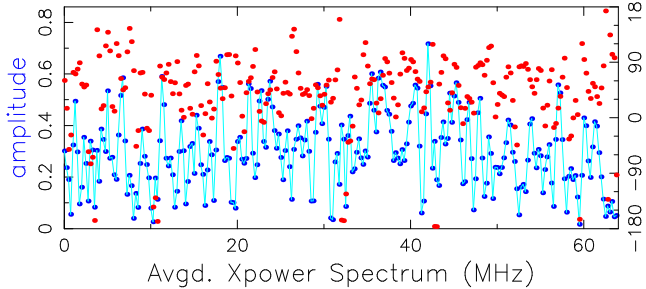


Fringe quality 9

SNR 13.8
 Int time 405.703
 Amp 0.251
 Phase 125.2
 PFD 8.2e-35
 Delays (us)
 SBD 0.004818
 MBD -0.001361
 Fringe rate (Hz)
 0.001763
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

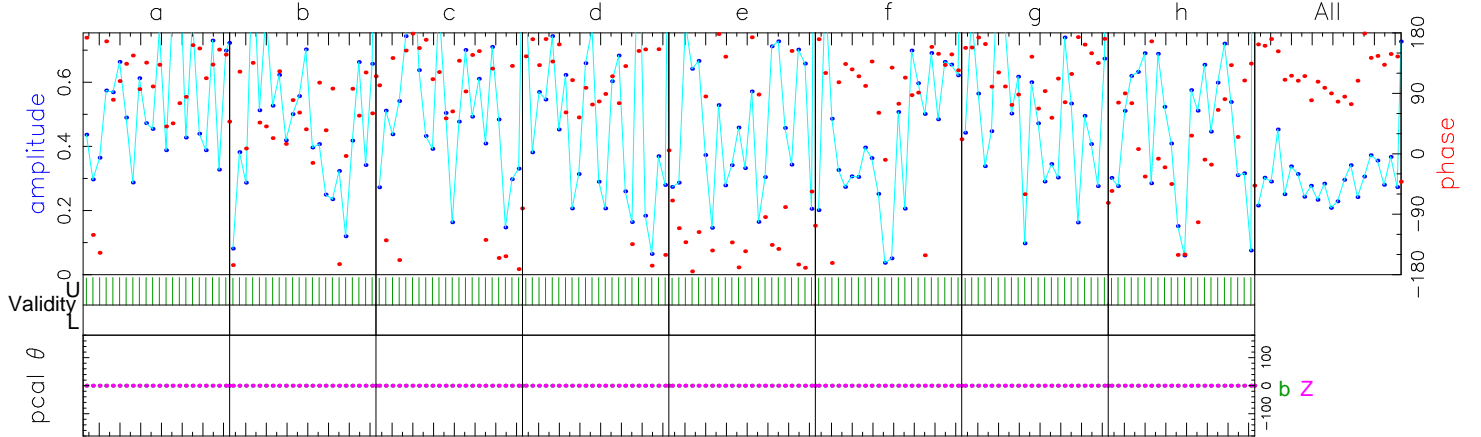


delay rate (ns/s)



Exp. c211c
 Exper # 16383
 Yr:day 2021:116
 Start 160013.31
 Stop 160659.84
 FRT 160330.00
 Corr/FF/build
 2021:303:125433
 2021:304:125152
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

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
	121.7	70.1	151.8	125.1	-149.9	126.7	123.4	22.9	Phase	125.2
	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.2	Ampl.	0.3
	258.0	258.7	258.0	257.8	257.5	257.5	257.0	254.4	Sbd box	258.2
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.47878570115E+03	Apriori delay (usec)	-4.47878433990E+03	Resid mbdelay (usec)	-1.36124E-03	+/-	7.8E-05
Sband delay (usec)	-4.47877952165E+03	Apriori clock (usec)	-2.2690144E+00	Resid sbdelay (usec)	4.81825E-03	+/-	6.2E-04
Phase delay (usec)	-4.47878433586E+03	Apriori clockrate (us/s)	-1.1600000E-07	Resid phdelay (usec)	4.03873E-06	+/-	2.7E-07
Delay rate (us/s)	1.06952731335E+00	Apriori rate (us/s)	1.06952729288E+00	Resid rate (us/s)	2.04653E-08	+/-	1.1E-09
Total phase (deg)	111.1	Apriori accel (us/s/s)	1.29682394191E-05	Resid phase (deg)	125.2	+/-	8.3

ph/seg (deg)	RMS 32.5	Theor. 19.8	Amplitude Search (2048X32)	0.251 +/- 0.018	0.247	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	30.1	34.6	Interp.	0.000	0.247	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	59.8	11.7	Inc. seg. avg.	0.279	0.279	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	42.4	20.4	Inc. frq. avg.	0.336	0.336	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 52.6 el 37.9 pa -57.6 Z: az 281.0 el 56.7 pa 50.9 u,v (fr/asec) -9714.344 660.026 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211c/v1/1234/No0085/bZ..1X0YRU Output file: /Exps/c211c/v1/1234/No0085/bZ.W.81.1X0YRU