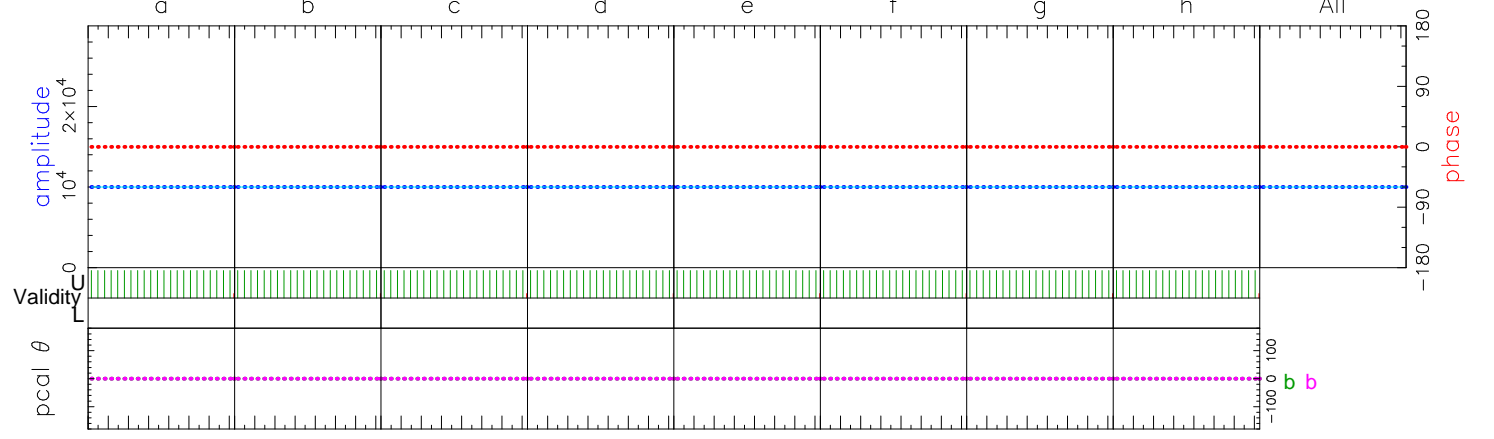


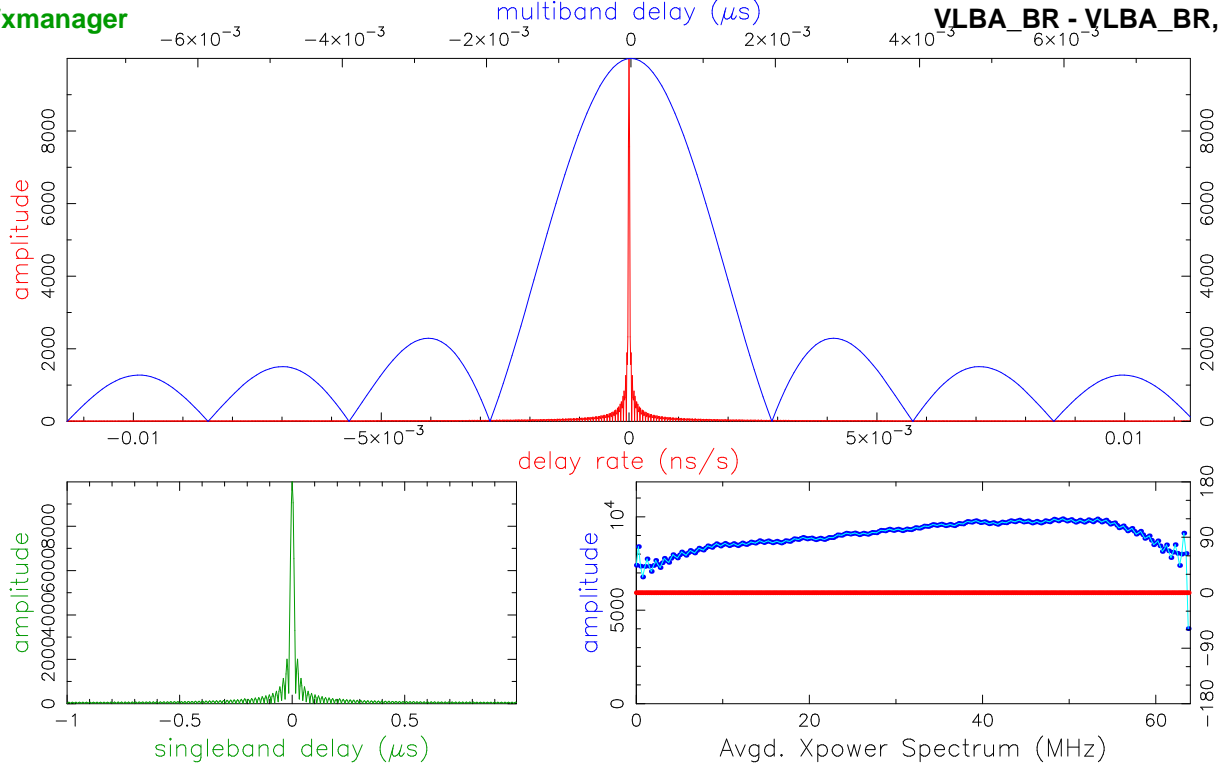
Fringe quality 9
SNR 560319.2
Int time 419.832
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211a
Yr:day 16383
Start 2021:114
Stop 2021:114
FRT 100330.00
Corr/FF/build 2021:286:232445
2021:287:012746
2021:252:122852
RA & Dec (J2000) 12h56m11.166577s
--5°47'21.525129"

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



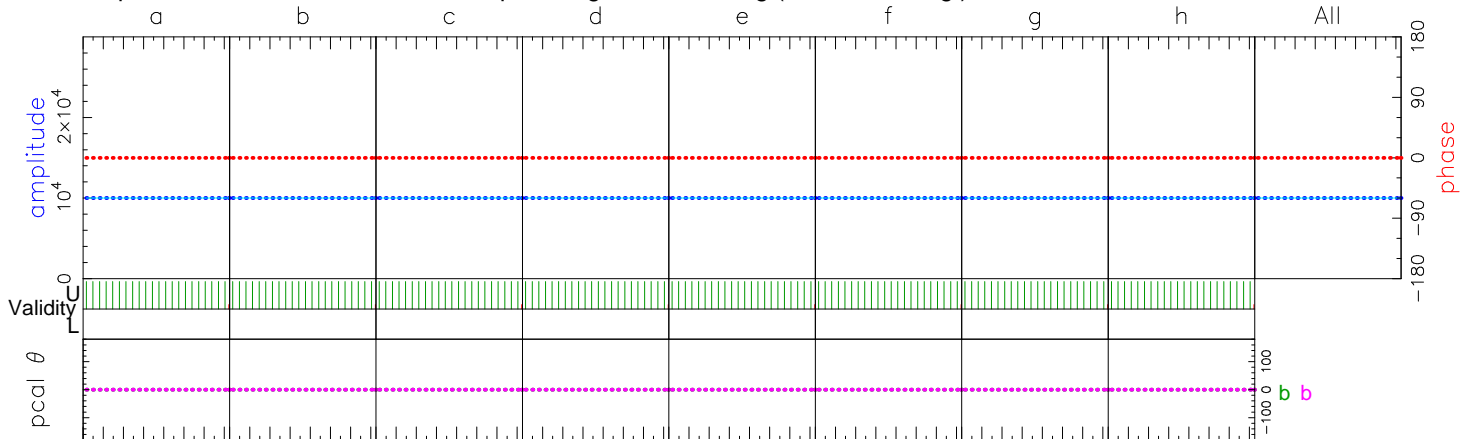
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	Ampl.	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
b	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid mbdelay (usec)	+/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid sbdelay (usec)	+/- 1.5E-08
Phase delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid phdelay (usec)	+/- 6.6E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid rate (us/s)	+/- 2.7E-14
Total phase (deg)		0.0							Resid phase (deg)	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 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
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
b: az 233.2 el 21.2 pa 32.5 b: az 233.2 el 21.2 pa 32.5 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bb..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bb.W.1.1W6AM6 simultaneous interpolator



Fringe quality 9
SNR 560319.2
Int time 419.832
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. c211a
Yr:day # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012749
2021:252:122852
RA & Dec (J2000) 12h56m11.166577s --5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	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 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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 6.6E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 2.7E-14
Total phase (deg)			0.0						0.0	+/- 0.0

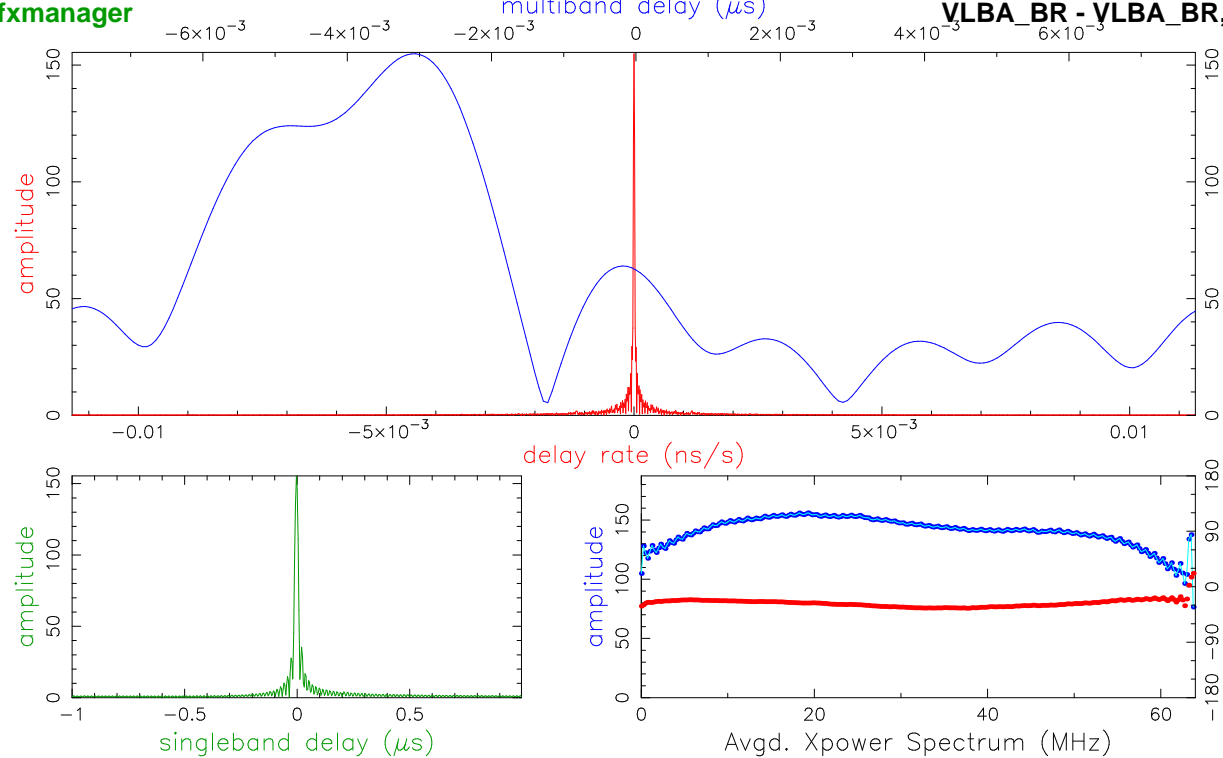
RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 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 233.2 el 21.2 pa 32.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bb..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bb.W.21.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bb

VLBA_BR - VLBA_BR, fgroup W, pol LR

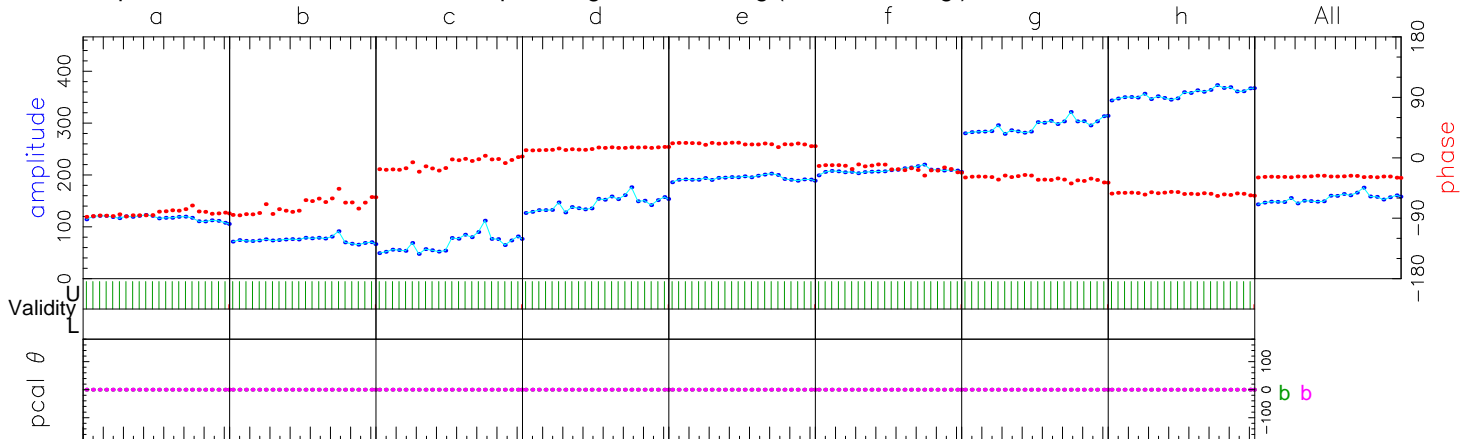


Fringe quality 5

SNR 8710.0
 Int time 419.832
 Amp 155.448
 Phase -28.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.003116
 MBD -0.003051
 Fringe rate (Hz)
 -0.000016
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.7	-71.5	-7.4	13.8	20.6	-15.2	-31.0	-53.3	Phase	-28.1
	116.9	73.5	67.6	144.5	193.7	208.1	293.9	356.4	Ampl.	181.8
	255.9	256.9	256.7	256.5	256.0	255.8	256.2	255.5	Sbd box	256.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
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	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.05056250000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-3.05056E-03	+/- 1.2E-07
Sband delay (usec)	-3.11600000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-3.11600E-03	+/- 9.9E-07
Phase delay (usec)	-9.05929125838E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-9.05929E-07	+/- 4.2E-10
Delay rate (us/s)	-1.79973635374E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.79974E-10	+/- 1.8E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-28.1	+/- 0.0

ph/seg (deg) 0.8 0.0 Search (2048X32) 153.732 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 5.0 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.3 0.0 Inc. seg. avg. 154.854 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 64.3 0.0 Inc. frq. avg. 181.814 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bb..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bb.W.38.1W6AM6

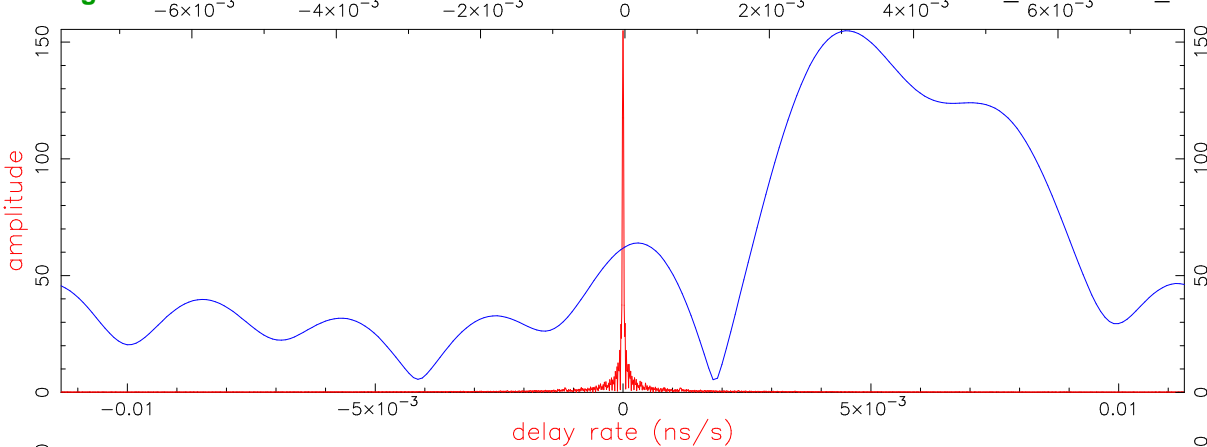
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bb

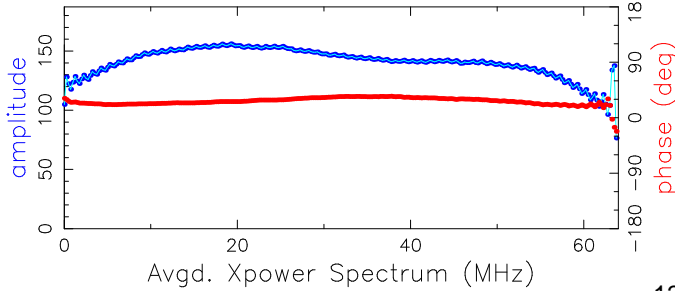
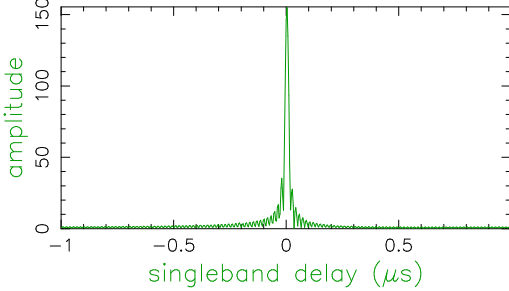
VLBA_BR - VLBA_BR, fgroup W, pol RL

multiband delay (μ s)



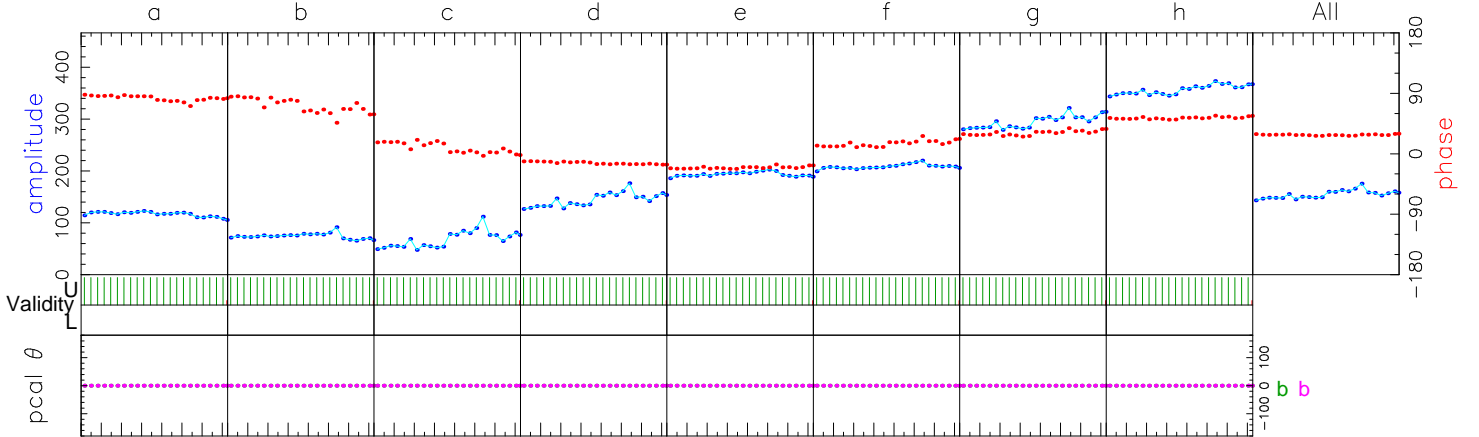
Fringe quality 5

SNR 8710.0
 Int time 419.832
 Amp 155.448
 Phase 28.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.003116
 MBD 0.003051
 Fringe rate (Hz)
 0.000016
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012756
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
b:b	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	3.05056250000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.05056E-03	+/- 1.2E-07
Sband delay (usec)	3.11600000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		3.11600E-03	+/- 9.9E-07
Phase delay (usec)	9.05929125908E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		9.05929E-07	+/- 4.2E-10
Delay rate (us/s)	1.79973635374E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.79974E-10	+/- 1.8E-12
Total phase (deg)	28.1		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		28.1	+/- 0.0

	RMS	Theor.	Amplitude	155.448 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.8	0.0	Search (2048X32)	153.732	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	5.0	0.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	41.3	0.0	Inc. seg. avg.	154.854	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	64.3	0.0	Inc. frq. avg.	181.814	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

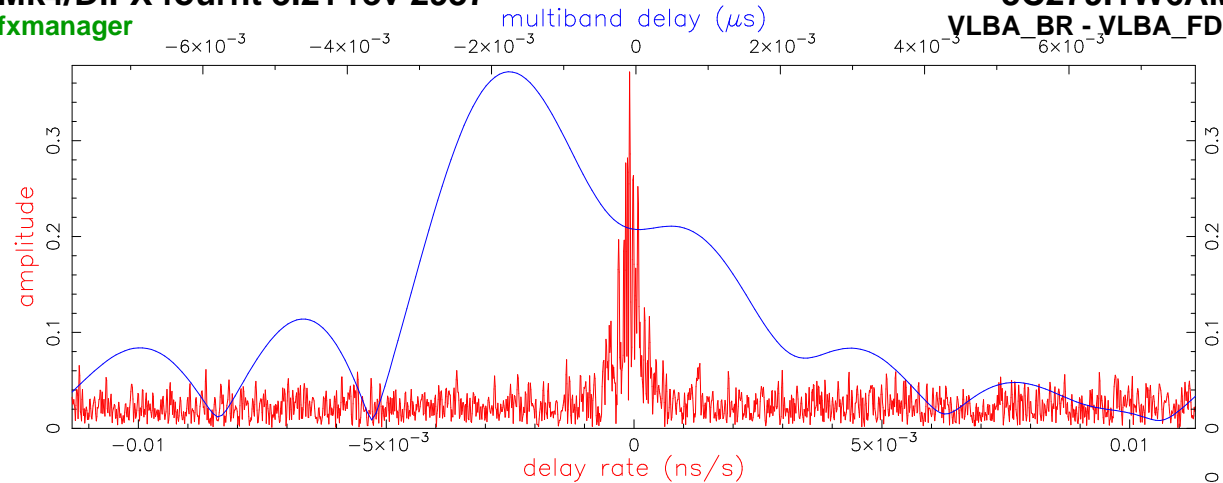
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bb..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bb.W.56.1W6AM6

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fxmanager

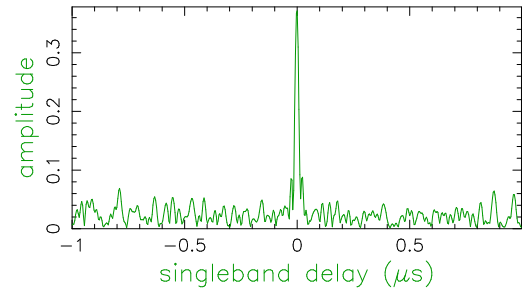
3C279.1W6AM6, No0213, bf

VLBA_BR - VLBA_FD, fgroup W, pol LL

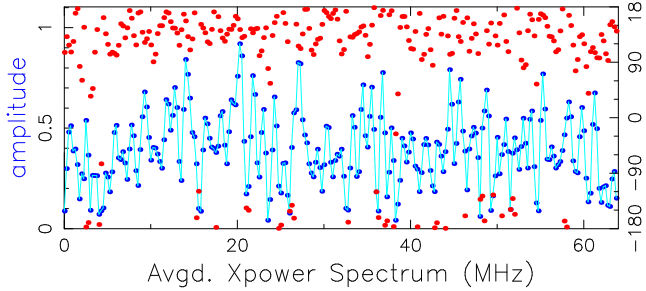


Fringe quality 7

SNR 21.0
 Int time 410.692
 Amp 0.379
 Phase 144.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.001734
 MBD -0.001798
 Fringe rate (Hz)
 -0.007727
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

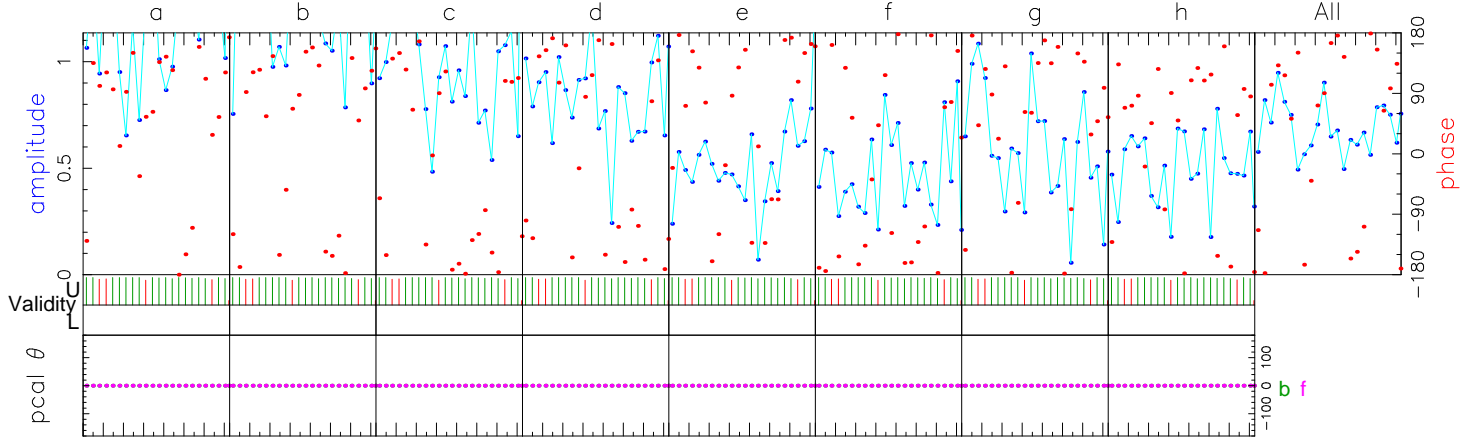


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012746
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	118.8	137.2	164.4	177.0	161.8	171.5	124.4	109.5	Phase	144.2
b	0.6	0.7	0.5	0.4	0.2	0.2	0.3	0.2	Ampl.	0.4
f	256.1	257.2	257.4	256.7	255.5	256.3	256.1	254.9	Sbd box	256.6
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
b:f	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
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)	1.03149917319E+03		Apriori delay (usec)		1.03150097077E+03		Resid mbdelay (usec)		-1.79758E-03	+/- 5.2E-05
Sband delay (usec)	1.03149923727E+03		Apriori clock (usec)		-1.3203432E+01		Resid sbdelay (usec)		-1.73350E-03	+/- 4.1E-04
Phase delay (usec)	1.03150097542E+03		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		4.65156E-06	+/- 1.8E-07
Delay rate (us/s)	4.22353000748E-01		Apriori rate (us/s)		4.22353090450E-01		Resid rate (us/s)		-8.97020E-08	+/- 7.3E-10
Total phase (deg)	8.1		Apriori accel (us/s/s)		-8.28193013906E-06		Resid phase (deg)		144.2	+/- 5.5

ph/seg (deg) 66.1 13.0 Search (2048X32) 0.364 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 87.7 22.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.4 7.7 Inc. seg. avg. 0.671 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.7 13.5 Inc. frq. avg. 0.400 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 f: az 251.1 el 18.5 pa 55.2 u,v (fr/asec) -2440.418 2136.007 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bf..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bf.W.2.1W6AM6

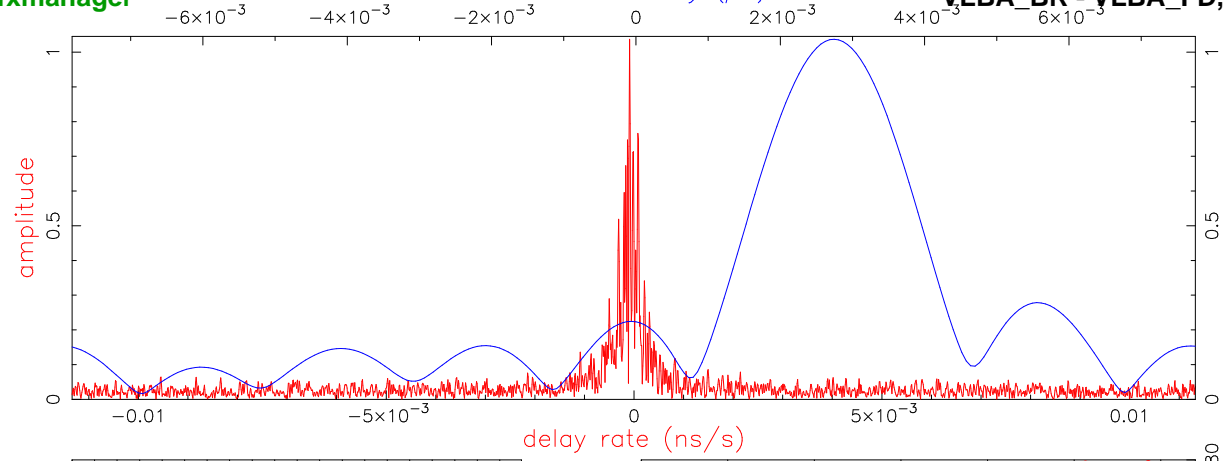
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bf

VLBA_BR - VLBA_FD, fgroup W, pol RR

multiband delay (μ s)



Fringe quality 5

SNR 57.9

Int time 410.692

Amp 1.045

Phase 142.4

PFD 0.0e+00

Delays (us)

SBD 0.002747

MBD 0.002715

Fringe rate (Hz)

-0.007754

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c211a

Exper # 16383

Yr:day 2021:114

Start 100000.00

Stop 100659.84

FRT 100330.00

Corr/FF/build

2021:286:232445

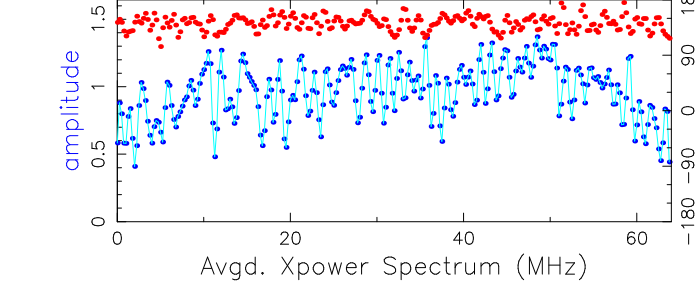
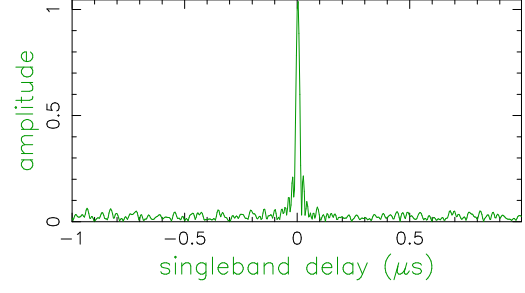
2021:287:012749

2021:252:122852

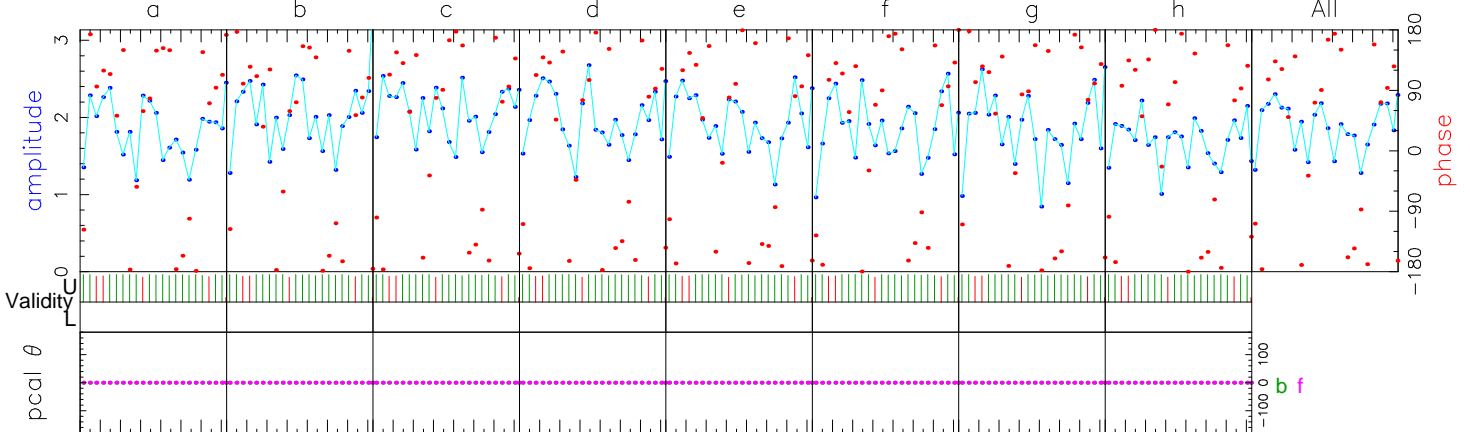
RA & Dec (J2000)

12h56m11.166577s

--5°47'21.525129"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.03150368597E+03			1.03150097077E+03				2.71520E-03	+/- 1.9E-05
Sband delay (usec)		1.03150371752E+03			-1.3203432E+01				2.74675E-03	+/- 1.5E-04
Phase delay (usec)		1.03150097536E+03			-1.6000000E-07				4.59193E-06	+/- 6.4E-08
Delay rate (us/s)		4.22353000436E-01			4.22353090450E-01				-9.00145E-08	+/- 2.7E-10
Total phase (deg)			6.2		-8.28193013906E-06				142.4	+/- 2.0
pcal mode:					MANUAL, MANUAL					PC period (AP's) 5, 5
pcal rate:					0.000E+00, 0.000E+00 (us/s)					sb window (us) -1.000 1.000
Bits/sample:					2x2					mb window (us) -0.008 0.008
Sample rate (MSamp/s):					128					dr window (ns/s) -0.011 0.011
Data rate (Mb/s):					2048					ion window (TEC) 0.00 0.00
lags:					256					t_cohere infinite

ph/seg (deg) 68.8 4.7 Search (2048X32) 1.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 83.8 8.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 8.6 2.8 Inc. seg. avg. 1.861 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 5.4 4.9 Inc. frq. avg. 1.045 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 233.2 el 21.2 pa 32.5 f: az 251.1 el 18.5 pa 55.2 u,v (fr/asec) -2440.418 2136.007 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bf..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bf.W.22.1W6AM6

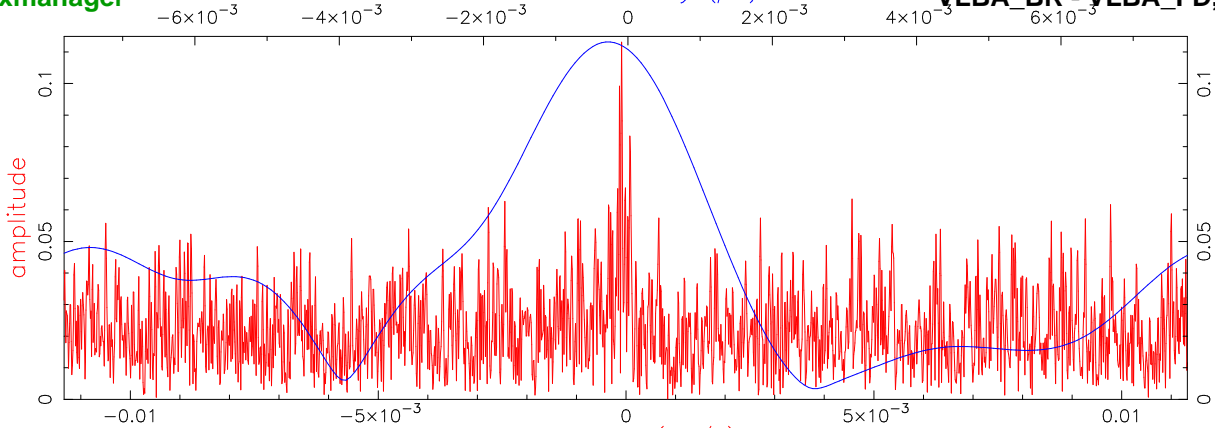
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bf

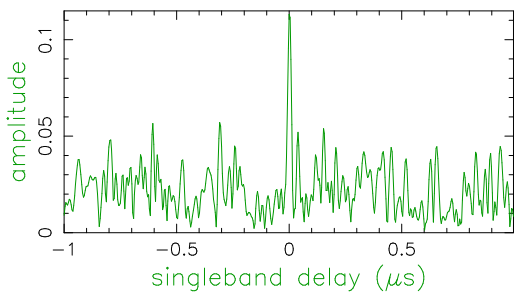
VLBA_BR - VLBA_FD, fgroup W, pol LR

multiband delay (μ s)

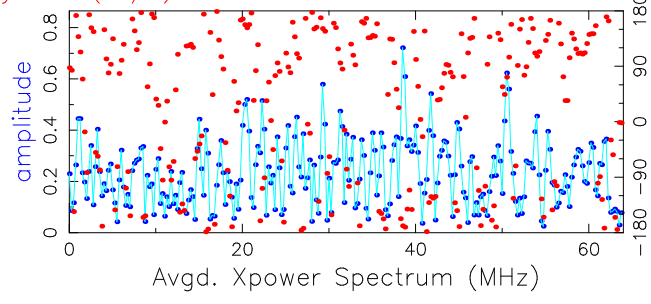


Fringe quality 0

SNR 6.4
 Int time 410.692
 Amp 0.115
 Phase 169.1
 PFD 5.1e-02
 Delays (us)
 SBD 0.001631
 MBD -0.000222
 Fringe rate (Hz)
 -0.007495
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

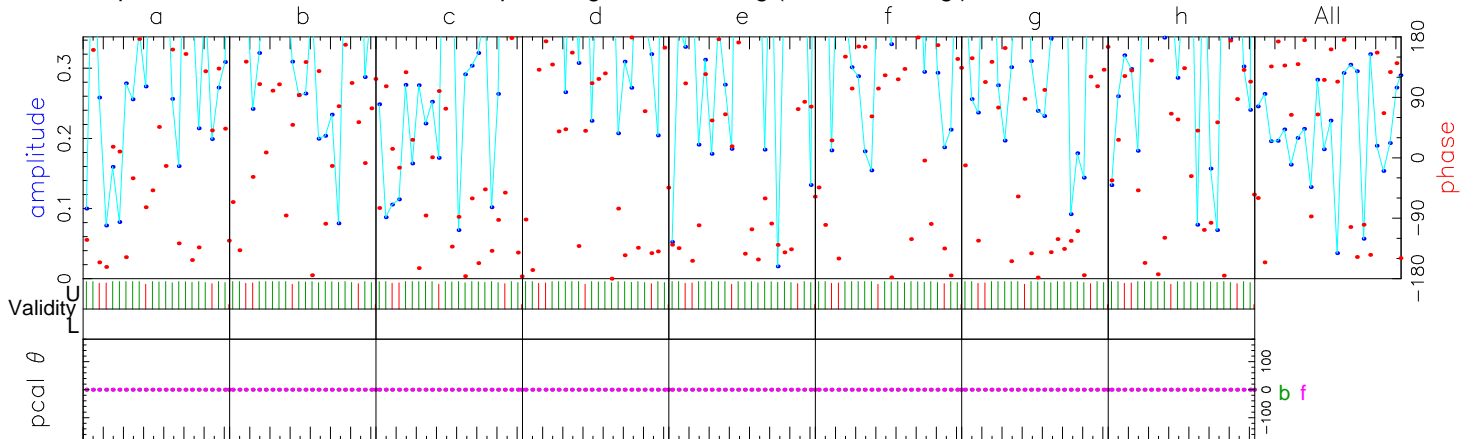


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-174.8	102.5	-112.2	160.8	-164.0	167.1	164.0	153.2	Phase	169.1	
	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1	
	296.7	135.5	2.2	257.1	464.9	198.1	246.8	341.4	Sbd box	257.4	
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0	APs used		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
f	1000	1000	1000	1000	1000	1000	1000	1000	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	PC amp		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	1.03150074881E+03		Apriori delay (usec)		1.03150097077E+03		Resid mbdelay (usec)		-2.21952E-04	+/- 1.7E-04	
Sband delay (usec)	1.03150260177E+03		Apriori clock (usec)		-1.3203432E+01		Resid sbdelay (usec)		1.63100E-03	+/- 1.4E-03	
Phase delay (usec)	1.03150097622E+03		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		5.45420E-06	+/- 5.8E-07	
Delay rate (us/s)	4.22353003436E-01		Apriori rate (us/s)		4.22353090450E-01		Resid rate (us/s)		-8.70137E-08	+/- 2.4E-09	
Total phase (deg)			Apriori accel (us/s/s)		-8.28193013906E-06		Resid phase (deg)		169.1	+/- 18.0	
	RMS	Theor.	Amplitude	0.115 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	65.0	43.0	Search (2048X32)	0.111		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	104.9	75.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	44.6	25.4	Inc. seg. avg.	0.164		Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	46.3	44.4	Inc. frq. avg.	0.120		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
b: az 233.2 el 21.2 pa 32.5		f: az 251.1 el 18.5 pa 55.2		u,v (fr/asec) -2440.418 2136.007						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c211a/v2/1234/No0213/bf..1W6AM6		Output file: /Exps/c211a/v2/1234/No0213/bf.W.43.1W6AM6							

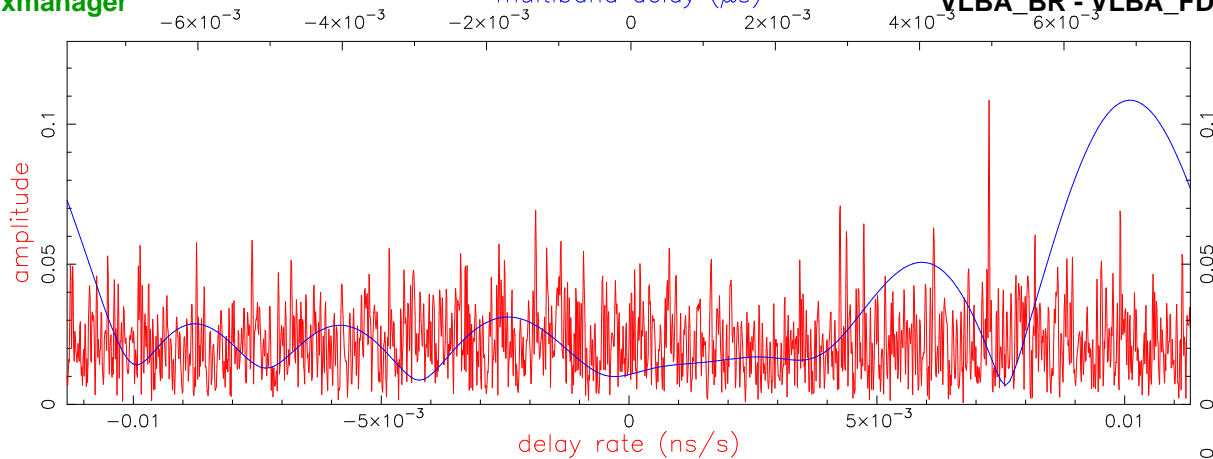
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bf

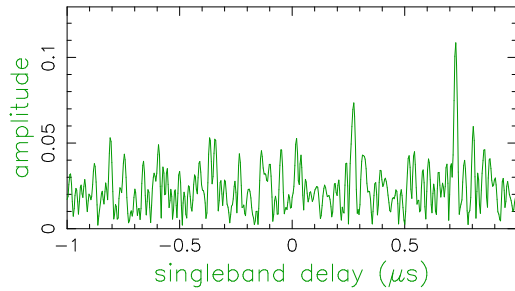
VLBA_BR - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)

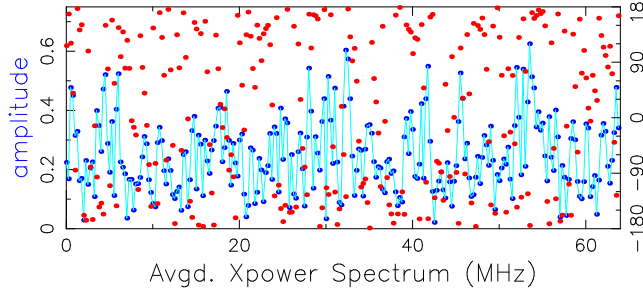


Fringe quality 0

SNR 6.0
 Int time 410.692
 Amp 0.130
 Phase 173.9
 PFD 3.6e-01
 Delays (us)
 SBD 0.726043
 MBD 0.006890
 Fringe rate (Hz)
 0.626373
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

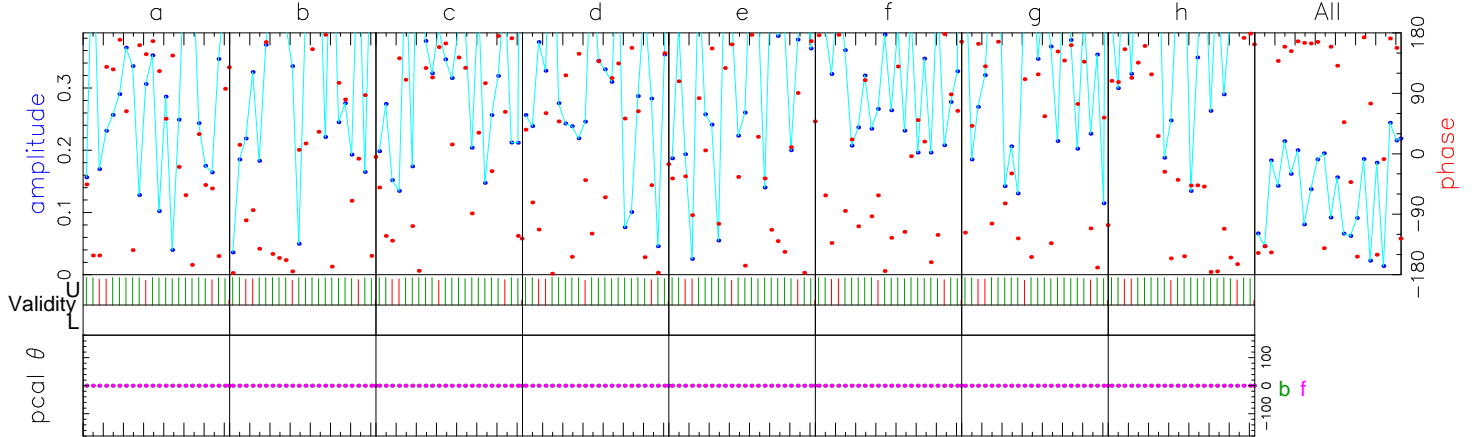


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	813/0	813/0	813/0	813/0	813/0	813/0	813/0	813/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
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	

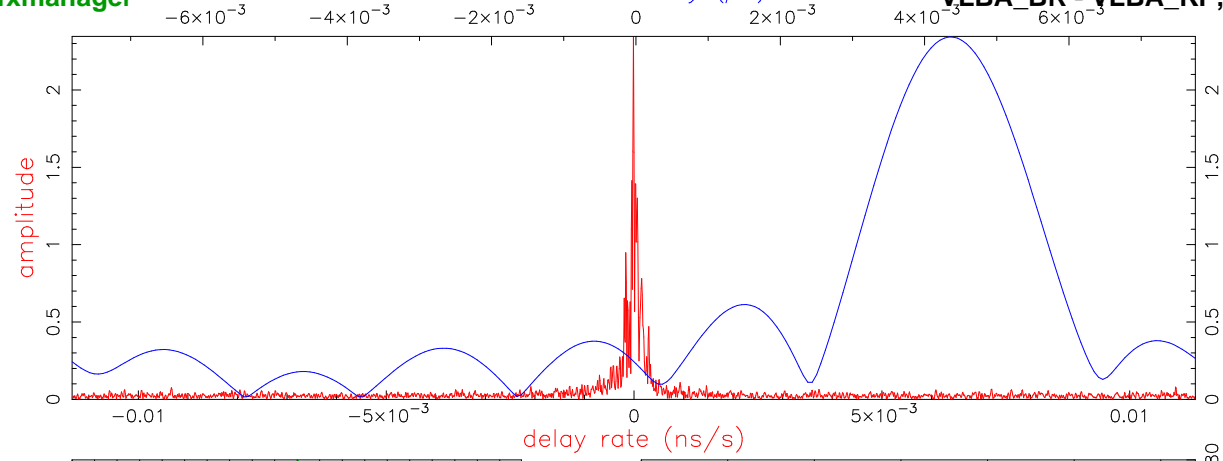
Group delay (usec)(sbd)	1.03222661099E+03	Apriori delay (usec)	1.03150097077E+03	Resid mbdelay (usec)	6.89023E-03	+/-	1.8E-04
Sband delay (usec)	1.03222701327E+03	Apriori clock (usec)	-1.3203432E+01	Resid sbdelay (usec)	7.26043E-01	+/-	1.4E-03
Phase delay (usec)	1.03150097637E+03	Apriori clockrate (us/s)	-1.6000000E-07	Resid phdelay (usec)	5.60686E-06	+/-	6.1E-07
Delay rate (us/s)	4.22360362023E-01	Apriori rate (us/s)	4.22353090450E-01	Resid rate (us/s)	7.27157E-06	+/-	2.6E-09
Total phase (deg)	37.7	Apriori accel (us/s/s)	-8.28193013906E-06	Resid phase (deg)	173.9	+/-	19.0

ph/seg (deg)	64.4	Theor.	45.4	Amplitude	0.130 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	66.5	Search (2048X32)	0.107	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	20.6	Inc. seg. avg.	0.122	Inc. frq. avg.	0.121	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	32.6	Inc. frq. avg.	0.121			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

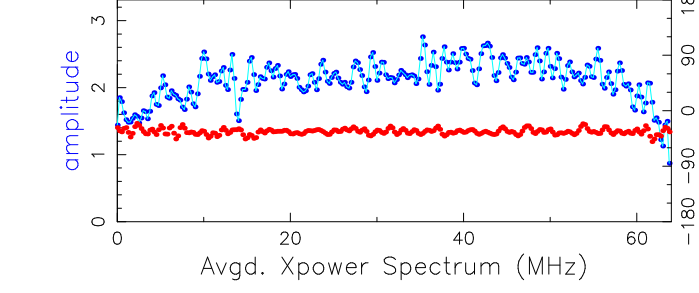
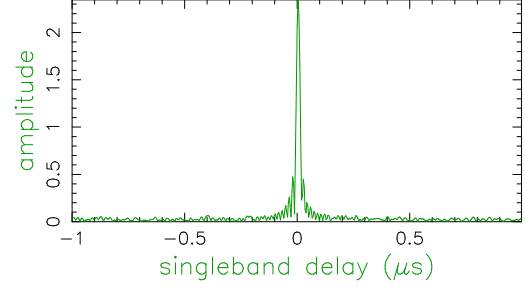
b: az 233.2 el 21.2 pa 32.5 f: az 251.1 el 18.5 pa 55.2 u,v (fr/asec) -2440.418 2136.007 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bf..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bf.W.62.1W6AM6

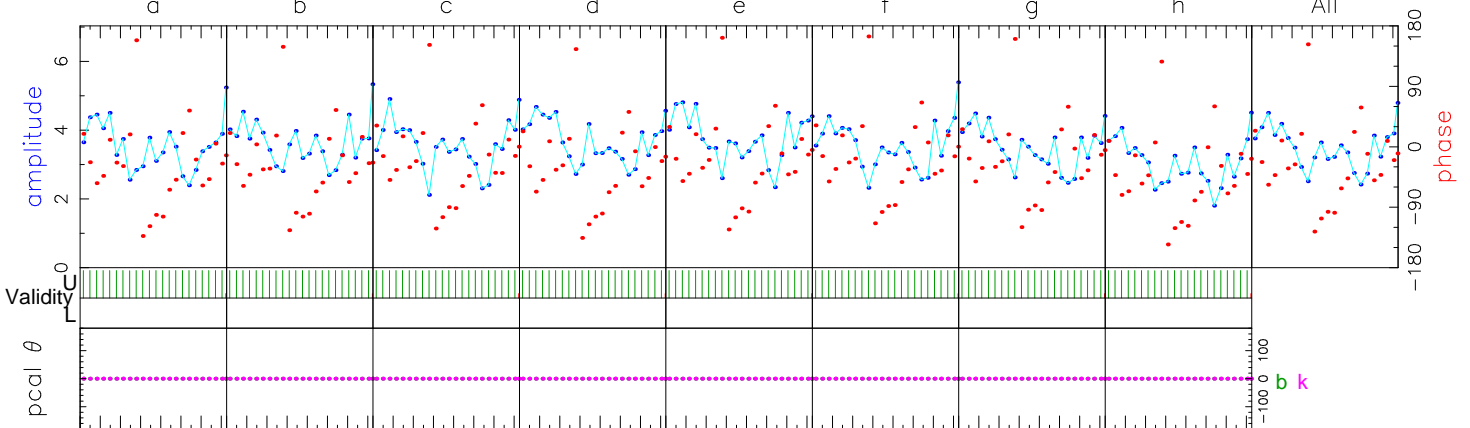
multiband delay (μ s)



Fringe quality 5
SNR 131.4
Int time 419.533
Amp 2.346
Phase -33.4
PFD 0.0e+00
Delays (us)
SBD 0.004409
MBD 0.004376
Fringe rate (Hz)
-0.001292
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012750
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"



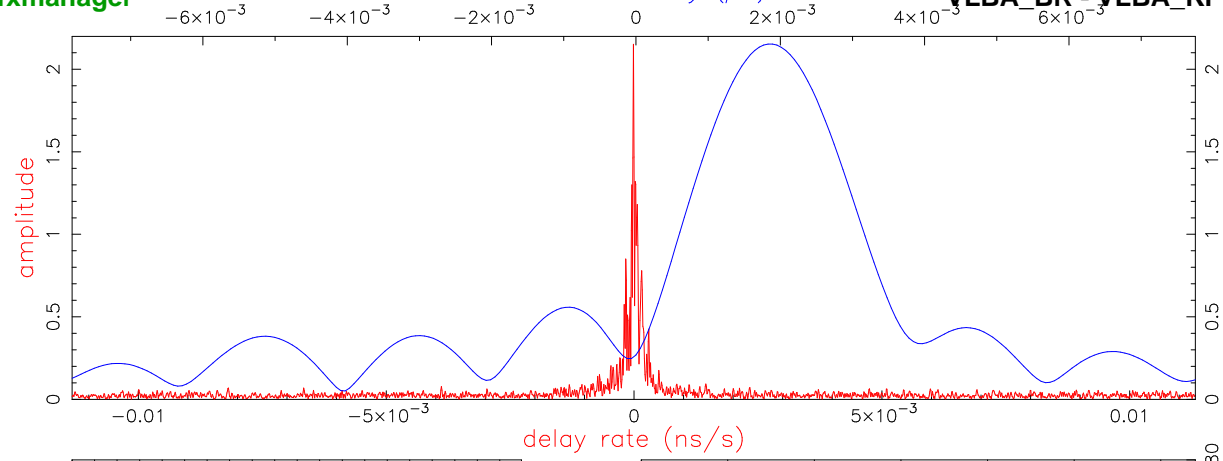
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



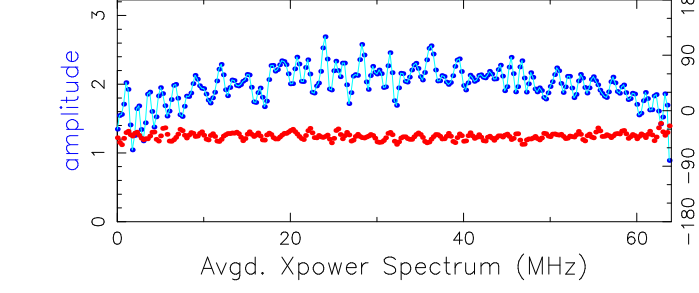
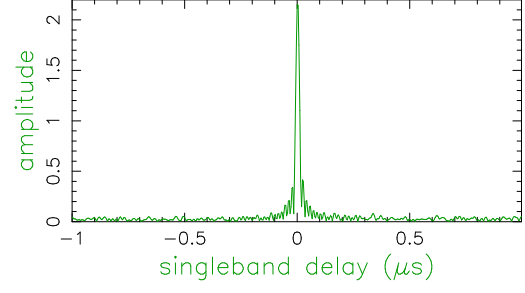
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.5	-36.3	-28.6	-37.6	-27.6	-24.4	-27.8	-52.0	Phase	-33.4
	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.0	Ampl.	2.4
	258.1	258.3	258.2	257.7	258.5	257.8	258.0	257.9	Sbd box	258.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	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	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.21499839143E+02		Apriori delay (usec)		-9.21504214758E+02		Resid mbdelay (usec)		4.37562E-03	+/- 8.3E-06
Sband delay (usec)	-9.21499805758E+02		Apriori clock (usec)		-3.2930202E+00		Resid sbdelay (usec)		4.40900E-03	+/- 6.6E-05
Phase delay (usec)	-9.21504215835E+02		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		-1.07694E-06	+/- 2.8E-08
Delay rate (us/s)	3.21838811091E-01		Apriori rate (us/s)		3.21838826091E-01		Resid rate (us/s)		-1.50002E-08	+/- 1.2E-10
Total phase (deg)			Apriori accel (us/s/s)		2.38371852683E-06		Resid phase (deg)		-33.4	+/- 0.9

ph/seg (deg) 58.8 2.1 Search (2048X32) 2.238 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 53.1 3.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 9.6 1.2 Inc. seg. avg. 3.462 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 5.9 2.2 Inc. frq. avg. 2.365 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 233.2 el 21.2 pa 32.5 k: az 245.7 el 24.1 pa 51.4 u,v (fr/asec) -1849.038 1876.320 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bk..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bk.W.24.1W6AM6

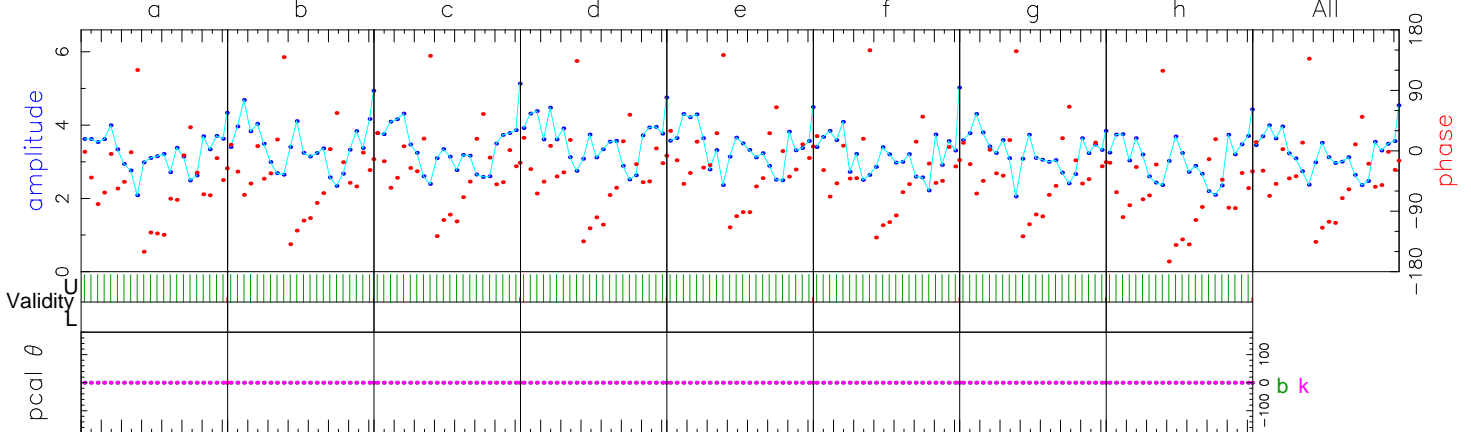
multiband delay (μ s)



Fringe quality 4
SNR 123.2
Int time 419.533
Amp 2.199
Phase -41.6
PFD 0.0e+00
Delays (us)
SBD 0.001888
MBD 0.001914
Fringe rate (Hz) -0.001308
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012746
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-52.2	-43.7	-32.5	-36.1	-25.1	-38.2	-36.9	-73.2	Phase	-41.6
	2.2	2.2	2.3	2.4	2.3	2.1	2.2	2.0	Ampl.	2.2
	257.5	257.8	257.6	257.4	257.5	257.3	257.4	256.8	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	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	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	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.21502301143E+02	Apriori delay (usec)	-9.21504214758E+02	Resid mbdelay (usec)	1.91362E-03	+/-	8.8E-06
Sband delay (usec)	-9.21502326258E+02	Apriori clock (usec)	-3.2930202E+00	Resid sbdelay (usec)	1.88850E-03	+/-	7.0E-05
Phase delay (usec)	-9.21504216100E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.34236E-06	+/-	3.0E-08
Delay rate (us/s)	3.21838810902E-01	Apriori rate (us/s)	3.21838826091E-01	Resid rate (us/s)	-1.51886E-08	+/-	1.2E-10
Total phase (deg)	-63.0	Apriori accel (us/s/s)	2.38371852683E-06	Resid phase (deg)	-41.6	+/-	0.9

ph/seg (deg)	59.3	RMS	2.2	Theor.	2.199 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	50.6	Search (2048X32)	2.043	Amplitude	2.199 +/- 0.018	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.0	Interp.	0.000	Inc. seg. avg.	3.202	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	4.6	Inc. frq. avg.	2.211	Inc. frq. avg.	2.211	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 233.2 el 21.2 pa 32.5 k: az 245.7 el 24.1 pa 51.4 u,v (fr/asec) -1849.038 1876.320 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bk..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bk.W.4.1W6AM6

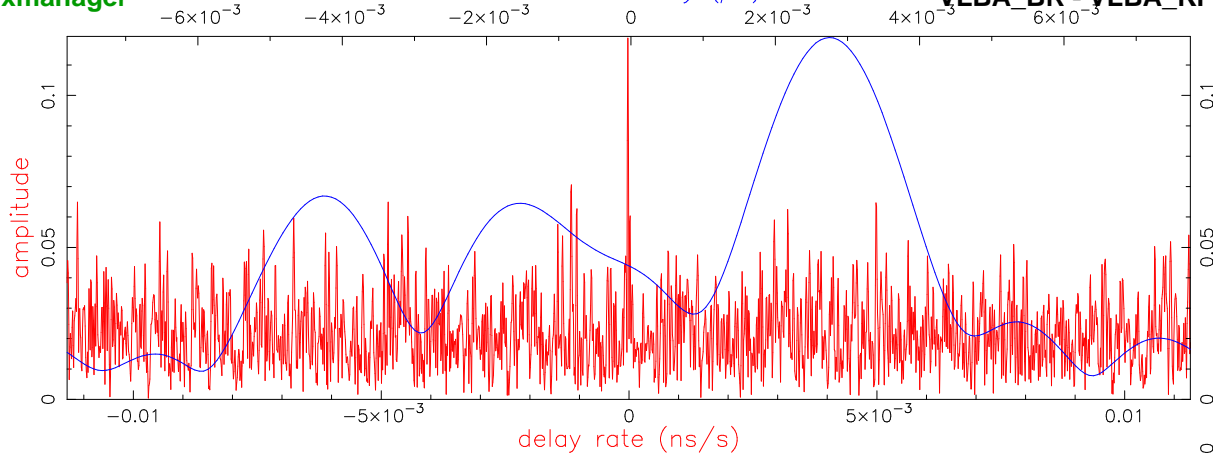
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bk

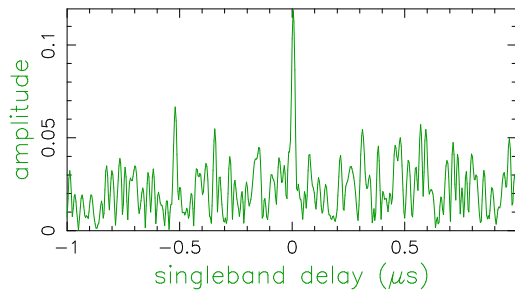
VLBA_BR - VLBA_KP, fgroup W, pol LR

multiband delay (μ s)

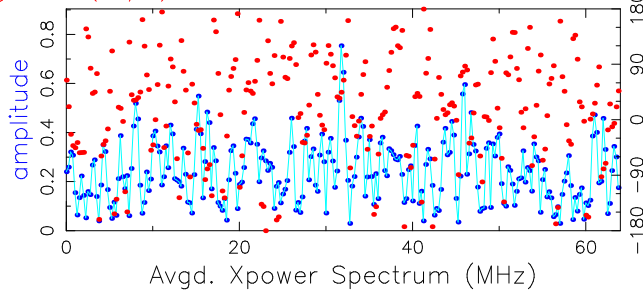


Fringe quality 0

SNR 6.7
 Int time 419.533
 Amp 0.119
 Phase 58.6
 PFD 6.4e-03
 Delays (us)
 SBD 0.004781
 MBD 0.002813
 Fringe rate (Hz)
 -0.001609
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

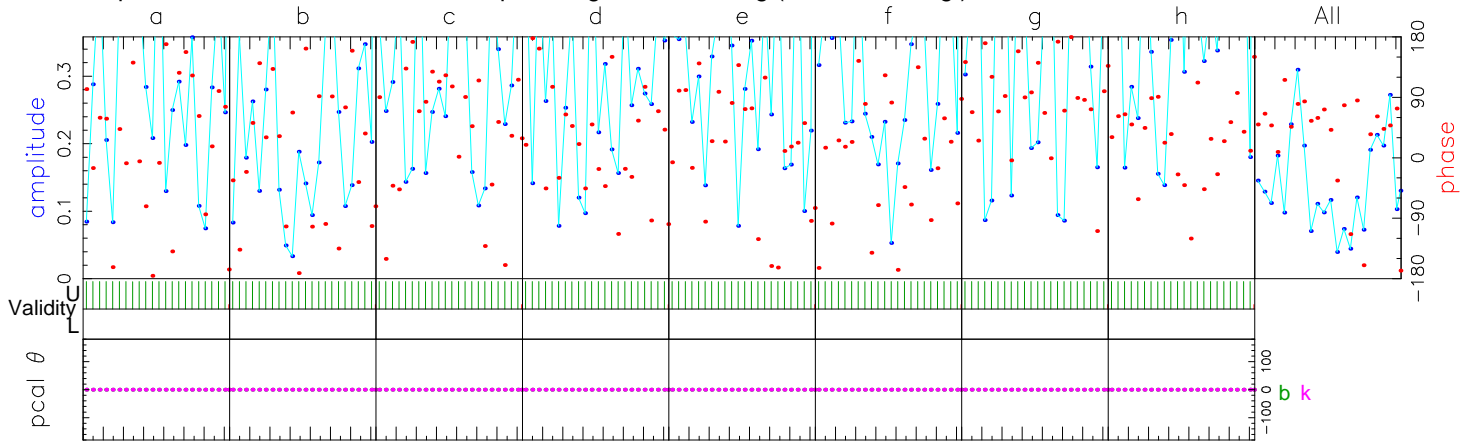


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-9.21501401777E+02								2.81298E-03	+/- 1.6E-04
Sband delay (usec)	-9.21499434258E+02								4.78050E-03	+/- 1.3E-03
Phase delay (usec)	-9.21504212869E+02								1.88903E-06	+/- 5.5E-07
Delay rate (us/s)	3.21838807416E-01								-1.86755E-08	+/- 2.3E-09
Total phase (deg)			37.2						58.6	+/- 17.1
	RMS	Theor.	Amplitude	0.119 +/- 0.018						
ph/seg (deg)	56.7	41.1	Search (2048X32)	0.114						
amp/seg (%)	62.2	71.7	Interp.	0.000						
ph/frq (deg)	29.4	24.2	Inc. seg. avg.	0.113						
amp/frq (%)	61.2	42.3	Inc. frq. avg.	0.119						
b: az 233.2 el 21.2 pa 32.5			k: az 245.7 el 24.1 pa 51.4							
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0213/bk..1W6AM6							
			Output file: /Exps/c211a/v2/1234/No0213/bk.W.42.1W6AM6							

Group delay (usec)(sbd) -9.21501401777E+02 Apriori delay (usec) -9.21504214758E+02 Resid mbdelay (usec) 2.81298E-03 +/- 1.6E-04
 Sband delay (usec) -9.21499434258E+02 Apriori clock (usec) -3.2930202E+00 Resid sbdelay (usec) 4.78050E-03 +/- 1.3E-03
 Phase delay (usec) -9.21504212869E+02 Apriori clockrate (us/s) -9.9999998E-08 Resid phdelay (usec) 1.88903E-06 +/- 5.5E-07
 Delay rate (us/s) 3.21838807416E-01 Apriori rate (us/s) 3.21838826091E-01 Resid rate (us/s) -1.86755E-08 +/- 2.3E-09
 Total phase (deg) 37.2 Apriori accel (us/s/s) 2.38371852683E-06 Resid phase (deg) 58.6 +/- 17.1

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

simultaneous interpolator

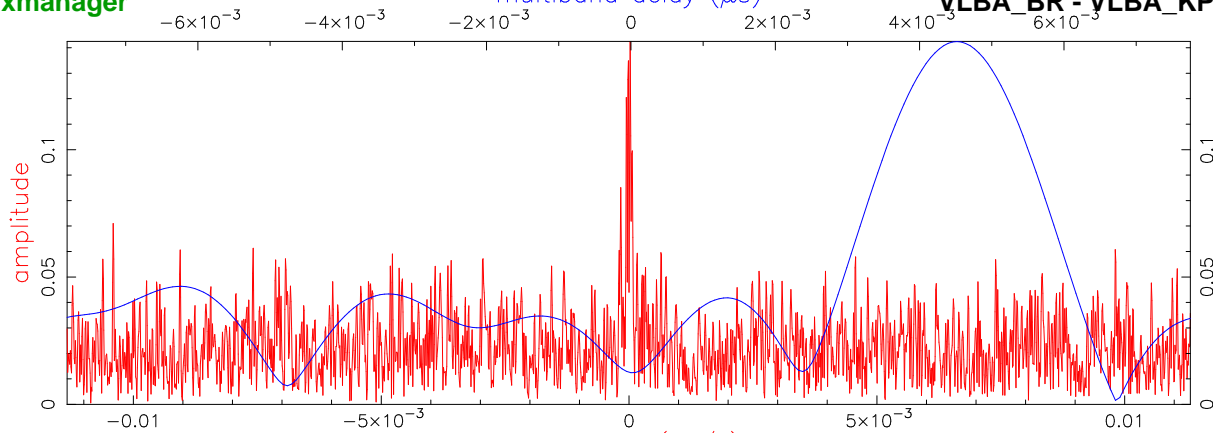
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bk

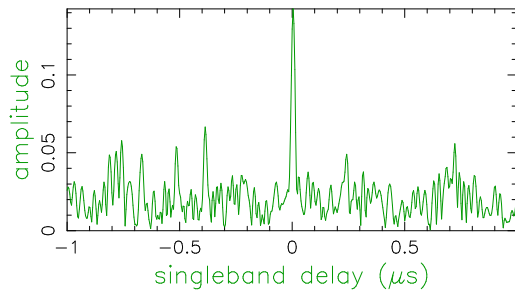
VLBA_BR - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)

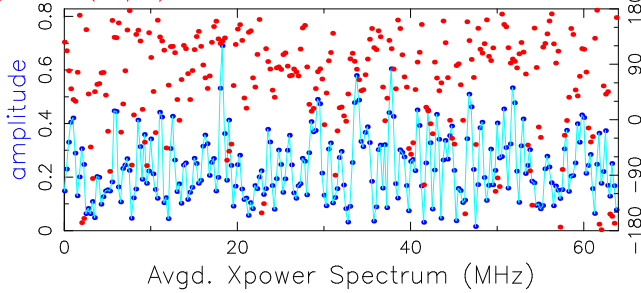


Fringe quality 9

SNR 8.0
 Int time 419.533
 Amp 0.143
 Phase 90.9
 PFD 4.9e-07
 Delays (us)
 SBD 0.004250
 MBD 0.004529
 Fringe rate (Hz) 0.001915
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

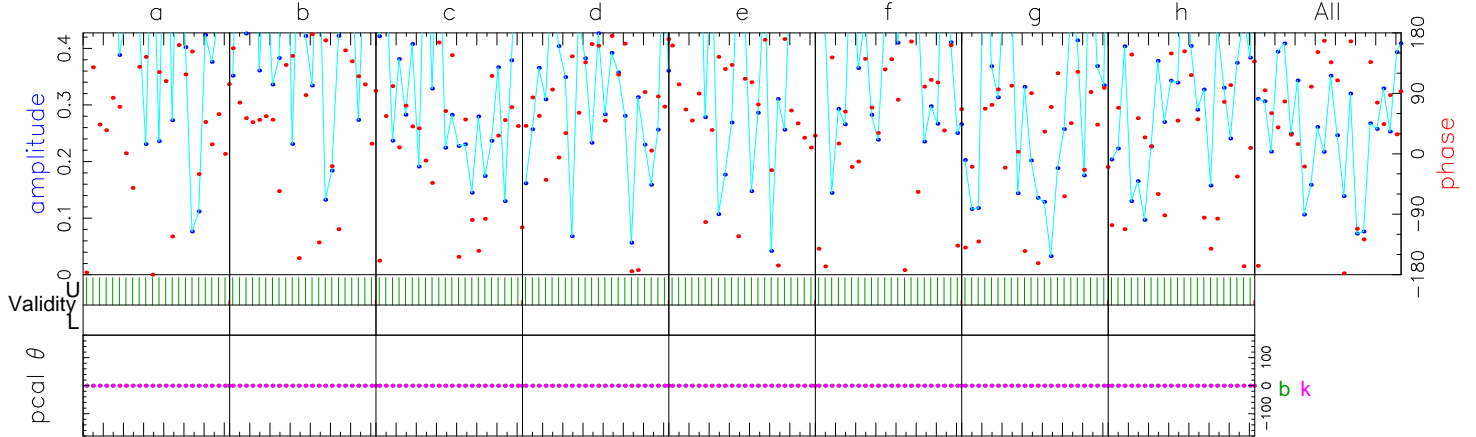


delay rate (ns/s)



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

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



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

Group delay (usec)(sbd)	-9.21499686145E+02	Apriori delay (usec)	-9.21504214758E+02	Resid mbdelay (usec)	4.52861E-03	+/-	1.4E-04
Sband delay (usec)	-9.21499965258E+02	Apriori clock (usec)	-3.2930202E+00	Resid sbdelay (usec)	4.24950E-03	+/-	1.1E-03
Phase delay (usec)	-9.21504211827E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.93088E-06	+/-	4.6E-07
Delay rate (us/s)	3.21838848323E-01	Apriori rate (us/s)	3.21838826091E-01	Resid rate (us/s)	2.22317E-08	+/-	1.9E-09
Total phase (deg)	69.6	Apriori accel (us/s/s)	2.38371852683E-06	Resid phase (deg)	90.9	+/-	14.4

ph/seg (deg)	RMS 72.2	Theor. 34.4	Amplitude Search (2048X32)	0.143 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	106.9	60.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	33.9	20.3	Inc. seg. avg.	0.220	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	44.1	35.4	Inc. frq. avg.	0.143	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

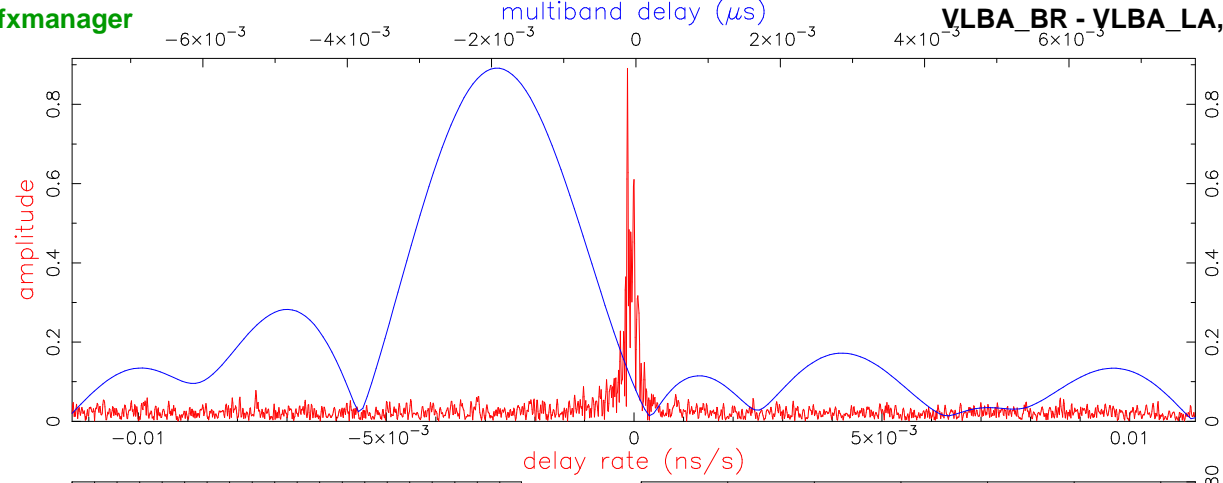
b: az 233.2 el 21.2 pa 32.5 k: az 245.7 el 24.1 pa 51.4 u,v (fr/asec) -1849.038 1876.320 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bk..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bk.W.60.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bl

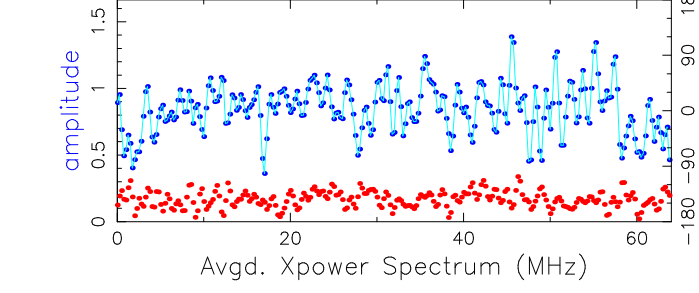
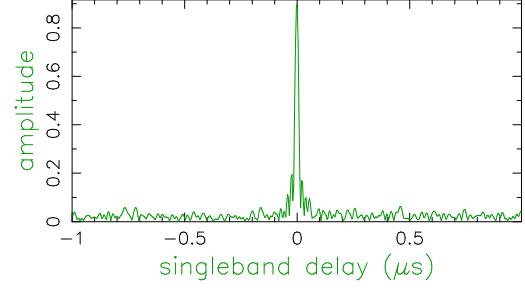
VLBA_BR - VLBA_LA, fgroup W, pol RR



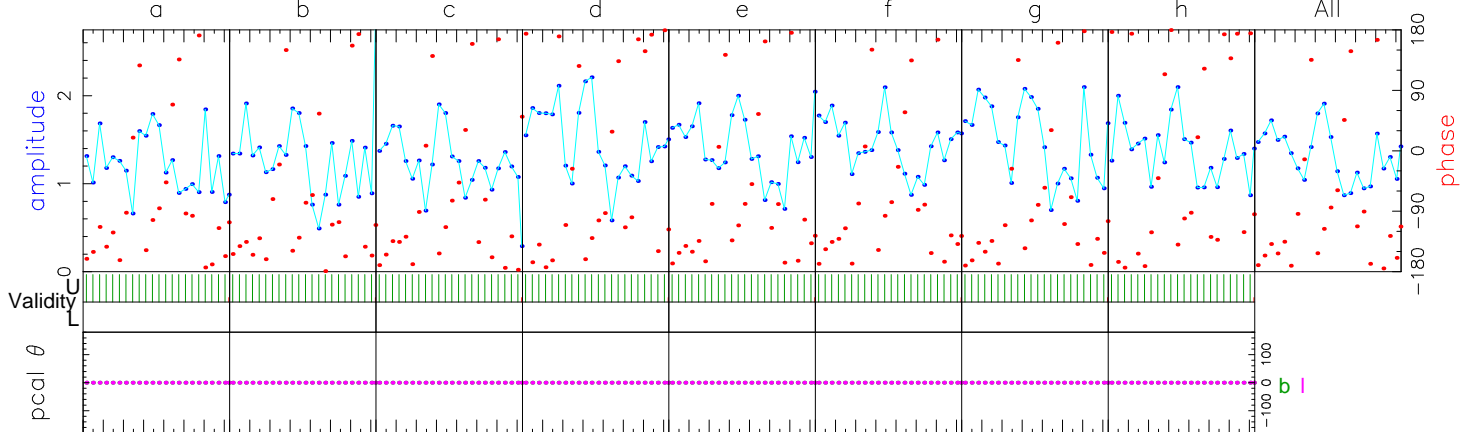
Fringe quality 4

SNR 51.3
 Int time 419.832
 Amp 0.916
 Phase -143.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.001802
 MBD -0.001873
 Fringe rate (Hz)
 -0.011521
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012751
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-136.7	-138.5	-140.2	-160.9	-133.7	-131.4	-138.6	-160.4	Phase	-143.0
	0.8	0.9	0.8	1.1	0.9	0.9	1.0	0.9	Ampl.	0.9
	256.7	256.8	256.5	256.4	256.8	256.6	256.1	256.4	Sbd box	256.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	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	
									Tracks	
Group delay (usec)(sbd)	1.01997704962E+03		Apriori delay (usec)		1.01997892249E+03		Resid mbdelay (usec)		-1.87287E-03	+/- 2.1E-05
Sband delay (usec)	1.01997712024E+03		Apriori clock (usec)		-3.7922096E-01		Resid sbdelay (usec)		-1.80225E-03	+/- 1.7E-04
Phase delay (usec)	1.01997891788E+03		Apriori clockrate (us/s)		1.8600001E-07		Resid phdelay (usec)		-4.61111E-06	+/- 7.2E-08
Delay rate (us/s)	3.31835373999E-01		Apriori rate (us/s)		3.31835507752E-01		Resid rate (us/s)		-1.33753E-07	+/- 3.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-7.28206763069E-06		Resid phase (deg)		-143.0	+/- 2.2

ph/seg (deg) 60.8 5.4 Amplitude 0.916 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.7 9.3 Search (2048X32) 0.885 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.5 3.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.0 5.5 Inc. seg. avg. 1.316 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.906 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 l: az 248.0 el 18.5 pa 49.1 u,v (fr/asec) -1918.432 1467.256 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bl.W.28.1W6AM6

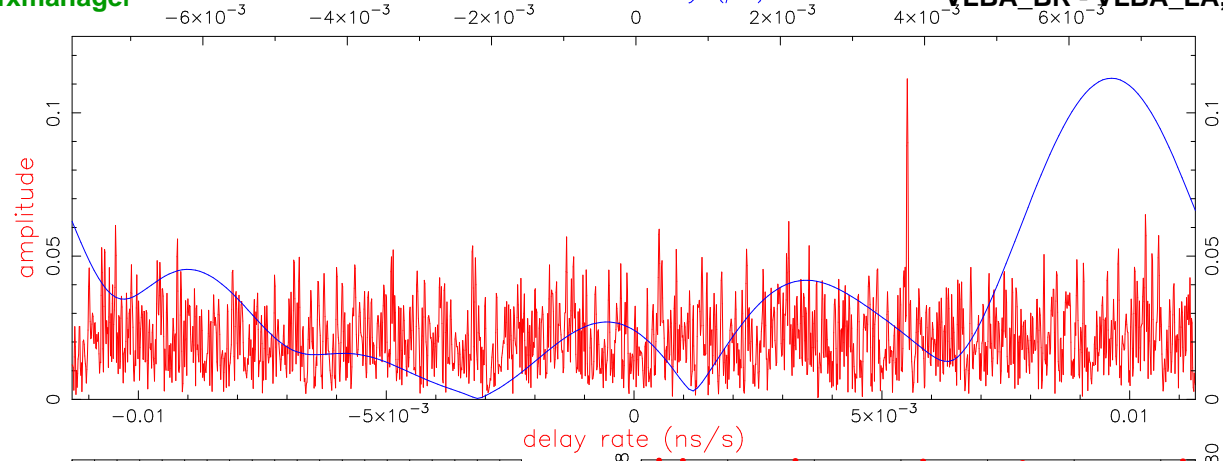
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bl

VLBA_BR - VLBA_LA, fgroup W, pol LR

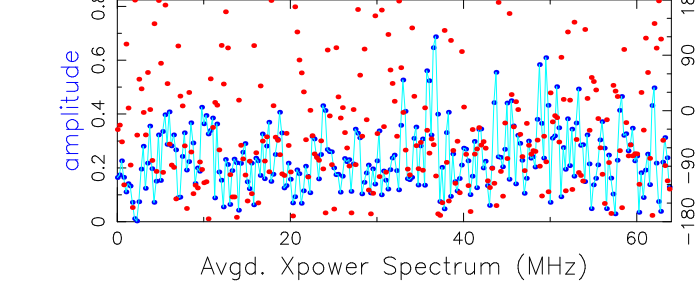
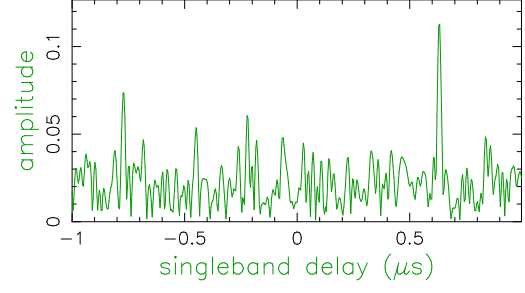
multiband delay (μ s)



Fringe quality 0

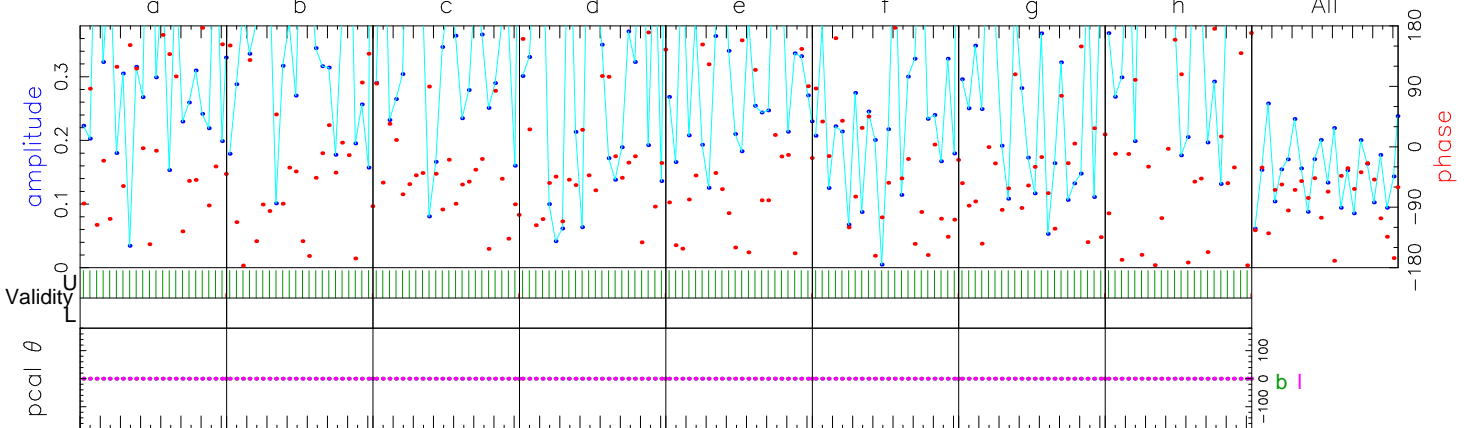
SNR 6.4
 Int time 419.832
 Amp 0.127
 Phase -77.1
 PFD 3.6e-02
 Delays (us)
 SBD 0.631037
 MBD 0.006664
 Fringe rate (Hz) 0.475631
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012755
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"



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
	-107.7	-85.0	-48.7	-72.0	-90.5	-92.7	-62.5	-105.1	Phase	-77.1
	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	206.2	427.7	418.5	104.9	264.0	169.2	376.4	115.3	Sbd box	418.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	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	

Group delay (usec)(sbd)	1.02061058635E+03	Apriori delay (usec)	1.01997892249E+03	Resid mbdelay (usec)	6.66386E-03	+/-	1.7E-04
Sband delay (usec)	1.02060995924E+03	Apriori clock (usec)	-3.7922096E-01	Resid sbdelay (usec)	6.31037E-01	+/-	1.3E-03
Phase delay (usec)	1.01997892000E+03	Apriori clockrate (us/s)	1.8600001E-07	Resid phdelay (usec)	-2.48651E-06	+/-	5.8E-07
Delay rate (us/s)	3.31841029352E-01	Apriori rate (us/s)	3.31835507752E-01	Resid rate (us/s)	5.52160E-06	+/-	2.4E-09
Total phase (deg)	60.8	Apriori accel (us/s/s)	-7.28206763069E-06	Resid phase (deg)	-77.1	+/-	17.8

ph/seg (deg)	42.3	Theor.	42.8	Amplitude	0.127 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	55.1		74.6	Search (2048X32)	0.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.3		25.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	43.5		44.0	Inc. seg. avg.	0.131	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.121	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 233.2 el 21.2 pa 32.5 l: az 248.0 el 18.5 pa 49.1 u,v (fr/asec) -1918.432 1467.256 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bl.W.49.1W6AM6

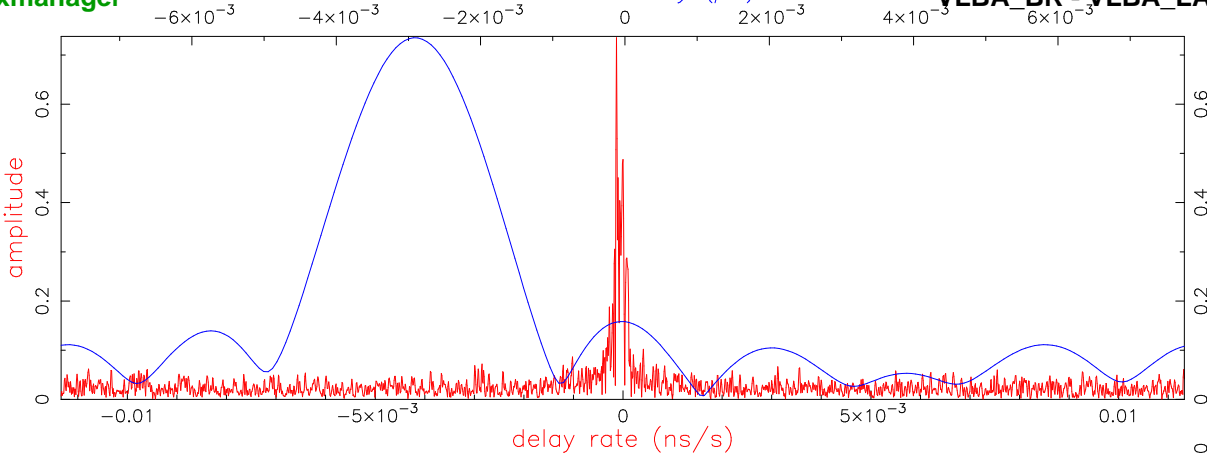
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bl

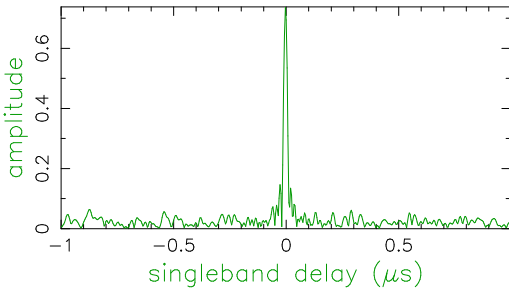
VLBA_BR - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)

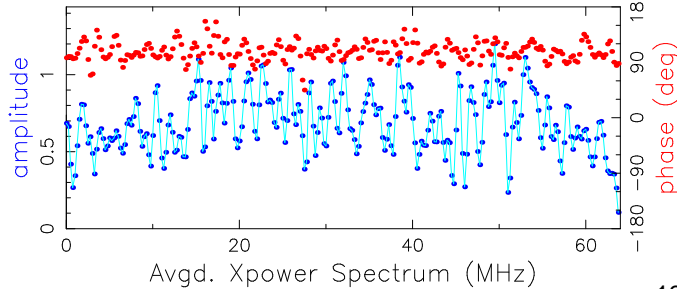


Fringe quality 7

SNR 41.3
 Int time 419.832
 Amp 0.738
 Phase 105.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.003130
 MBD -0.002893
 Fringe rate (Hz)
 -0.011488
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

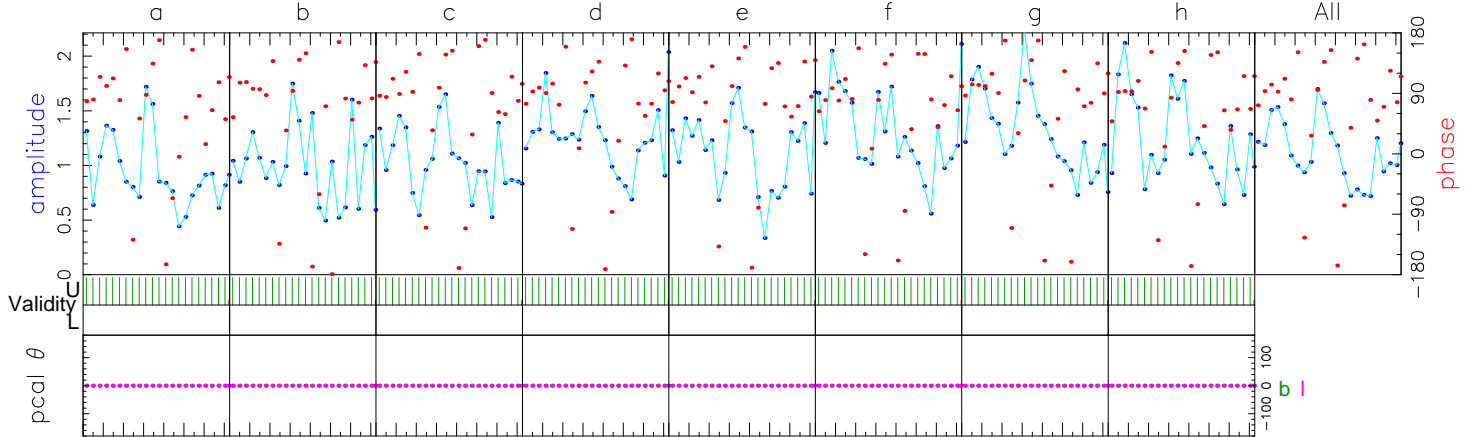


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012746
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All			
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0					
b	1000	1000	1000	1000	1000	1000	1000	1000					
l	1000	1000	1000	1000	1000	1000	1000	1000					
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0					
b:l	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					
l	1000	1000	1000	1000	1000	1000	1000	1000					
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL					
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL					
Group delay (usec)(sbd)		1.01997602918E+03			1.01997892249E+03				Resid mbdelay (usec)	-2.89330E-03	+/- 2.6E-05		
Sband delay (usec)		1.01997579274E+03			-3.7922096E-01				Resid sbdelay (usec)	-3.12975E-03	+/- 2.1E-04		
Phase delay (usec)		1.01997892587E+03			1.8600001E-07				Resid phdelay (usec)	3.38645E-06	+/- 8.9E-08		
Delay rate (us/s)		3.31835374393E-01			3.31835507752E-01				Resid rate (us/s)	-1.33359E-07	+/- 3.7E-10		
Total phase (deg)		242.9			-7.28206763069E-06				Resid phase (deg)	105.0	+/- 2.8		
ph/seg (deg)	RMS 62.1	Theor. 6.6	Amplitude Search (2048X32)	0.738 +/- 0.018	0.731				Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	64.7	11.6	Interp.	0.000					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	6.5	3.9	Inc. seg. avg.	1.118					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	11.5	6.8	Inc. frq. avg.	0.737					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 233.2 el 21.2 pa 32.5 l: az 248.0 el 18.5 pa 49.1 u,v (fr/asec) -1918.432 1467.256 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bl.W.5.1W6AM6

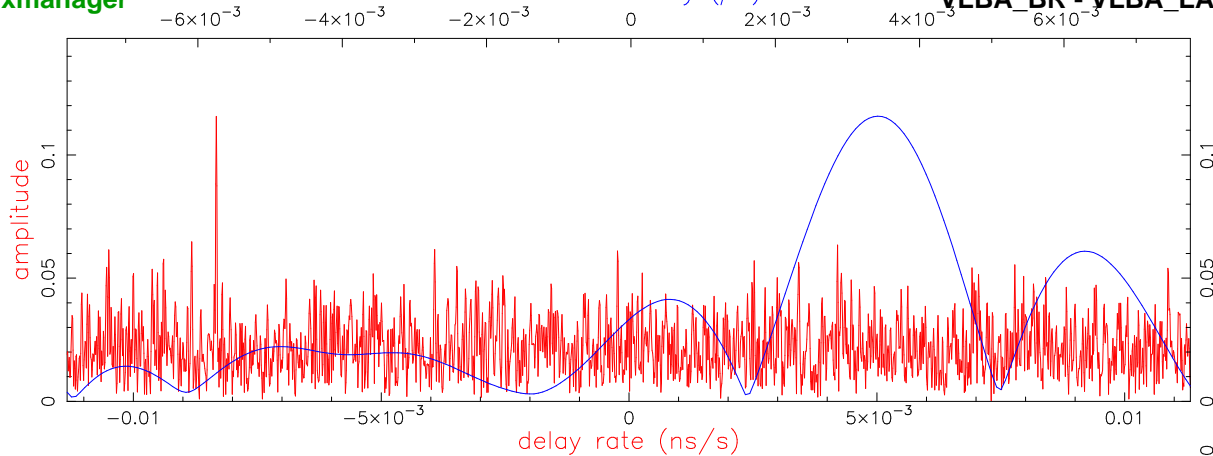
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bl

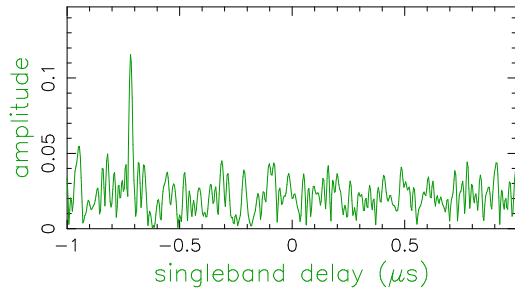
VLBA_BR - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)

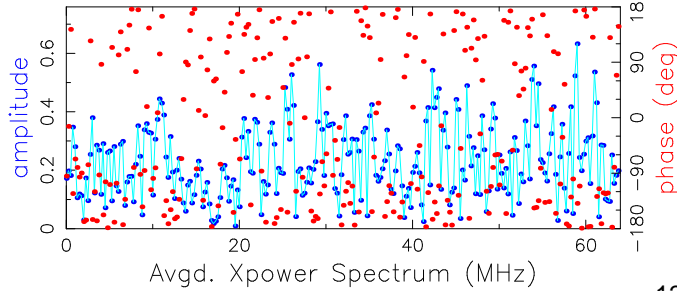


Fringe quality 0

SNR 6.5
 Int time 419.832
 Amp 0.147
 Phase 165.0
 PFD 1.8e-02
 Delays (us)
 SBD -0.717631
 MBD 0.003469
 Fringe rate (Hz)
 -0.718489
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

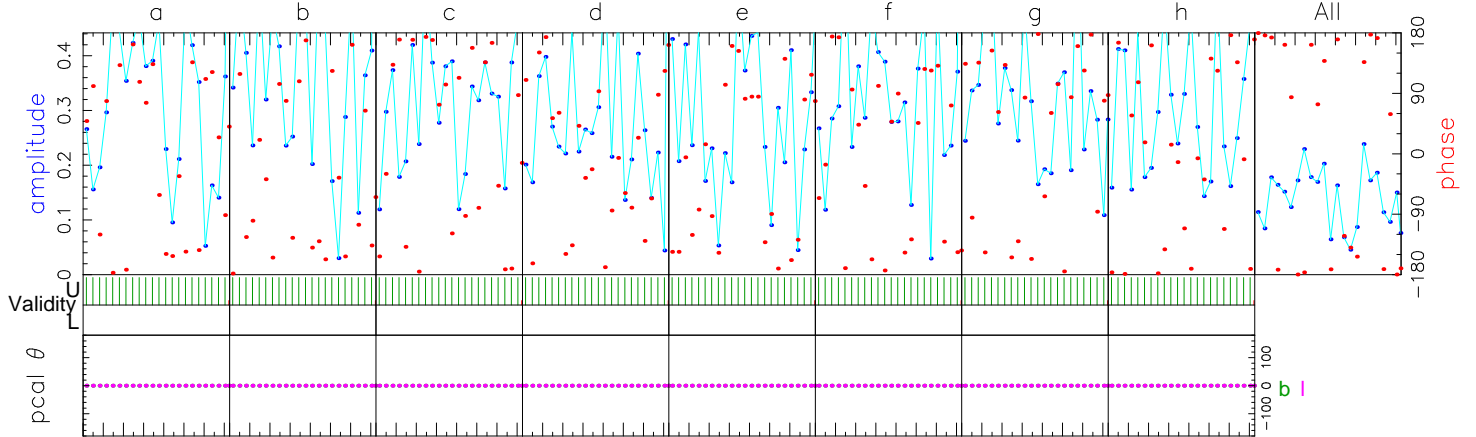


delay rate (ns/s)



Exp. c211a
 Yr:day 16383
 Start 2021:114
 Stop 2021:114
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012759
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
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)		1.01926364149E+03		Apriori delay (usec)	1.01997892249E+03		Resid mbdelay (usec)	3.46901E-03		+/- 1.7E-04
Sband delay (usec)		1.01926129149E+03		Apriori clock (usec)	-3.7922096E-01		Resid sbdelay (usec)	-7.17631E-01		+/- 1.3E-03
Phase delay (usec)		1.01997892781E+03		Apriori clockrate (us/s)	1.8600001E-07		Resid phdelay (usec)	5.32078E-06		+/- 5.7E-07
Delay rate (us/s)		3.31827166810E-01		Apriori rate (us/s)	3.31835507752E-01		Resid rate (us/s)	-8.34094E-06		+/- 2.3E-09
Total phase (deg)			302.9	Apriori accel (us/s/s)	-7.28206763069E-06		Resid phase (deg)	165.0		+/- 17.5

	RMS	Theor.	Amplitude	0.147 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	43.0	42.1	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	50.2	73.4	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	11.6	24.8	Inc. seg. avg.	0.142	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	39.0	43.3	Inc. frq. avg.	0.135	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 l: az 248.0 el 18.5 pa 49.1 u,v (fr/asec) -1918.432 1467.256 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bl..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bl.W.69.1W6AM6

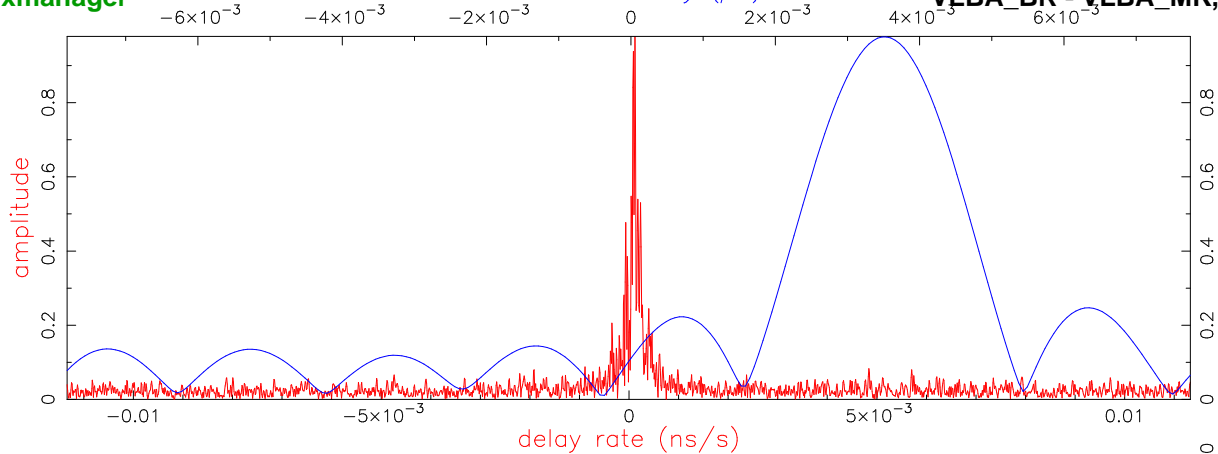
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bm

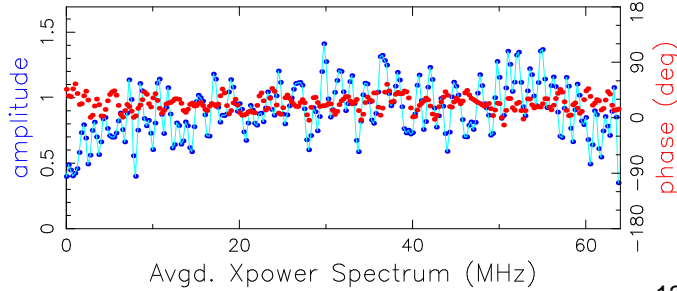
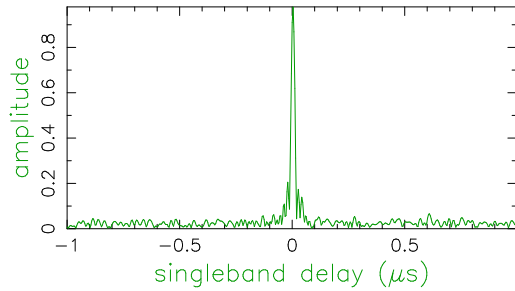
VLBA_BR - VLBA_MK, fgroup W, pol RR

multiband delay (μ s)



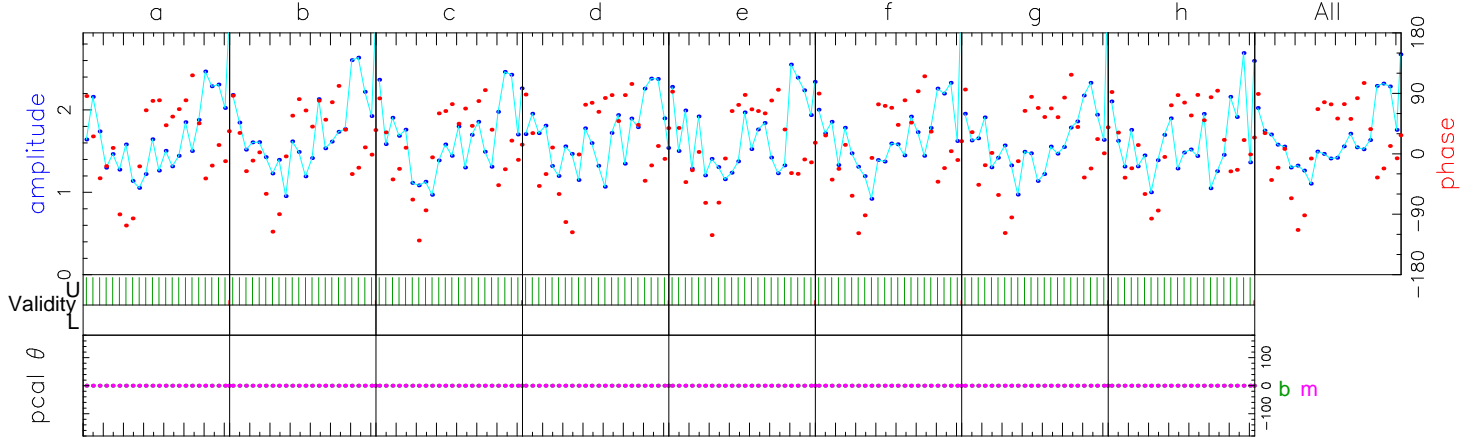
Fringe quality 5

SNR 54.8
 Int time 419.821
 Amp 0.979
 Phase 21.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.003448
 MBD 0.003503
 Fringe rate (Hz) 0.010364
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012749
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



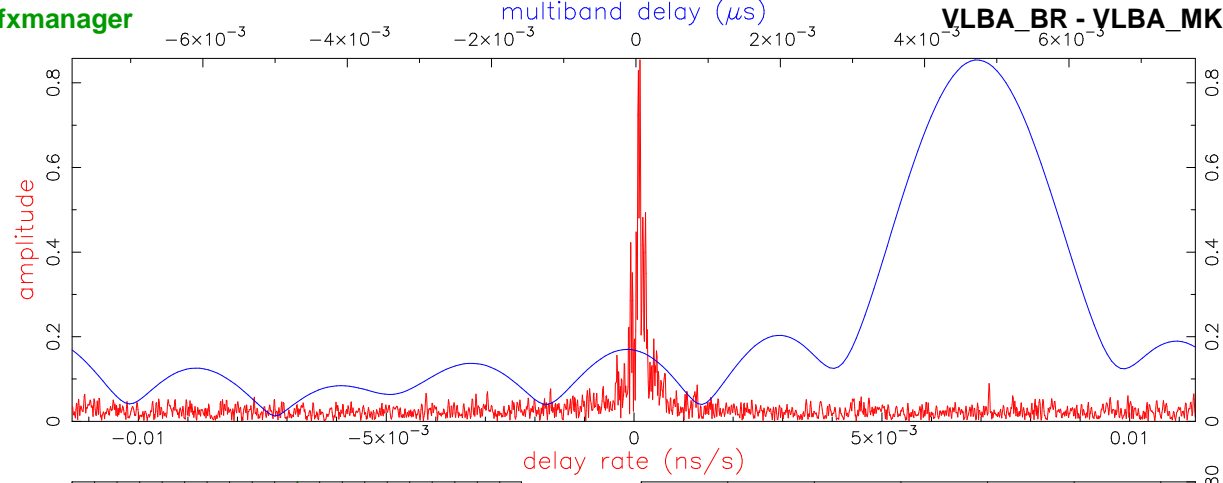
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	1000
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-1.10766202368E+04								3.50273E-03	+/- 2.0E-05
Sband delay (usec)	-1.10766202918E+04								3.44775E-03	+/- 1.6E-04
Phase delay (usec)	-1.10766237388E+04								7.02308E-07	+/- 6.7E-08
Delay rate (us/s)	-4.39481285091E-01								1.20317E-07	+/- 2.8E-10
Total phase (deg)			-310.6						21.8	+/- 2.1
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.979 +/- 0.018										
0.965										
0.000										
1.639										
0.977										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
simultaneous interpolator										

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bm

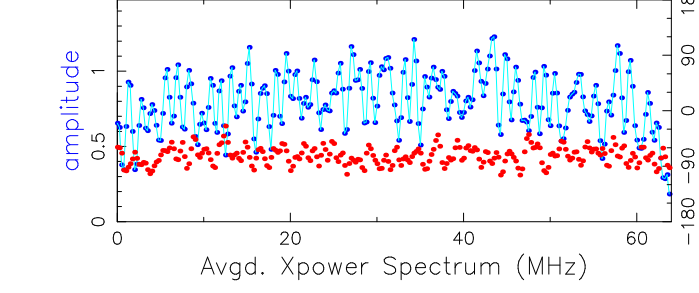
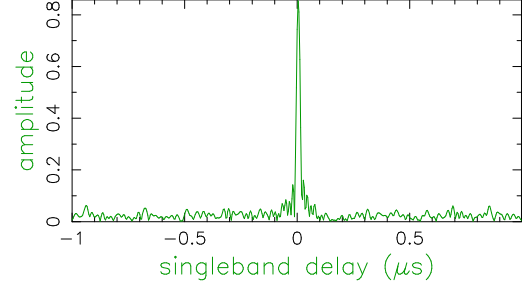
VLBA_BR - VLBA_MK, fgroup W, pol LL



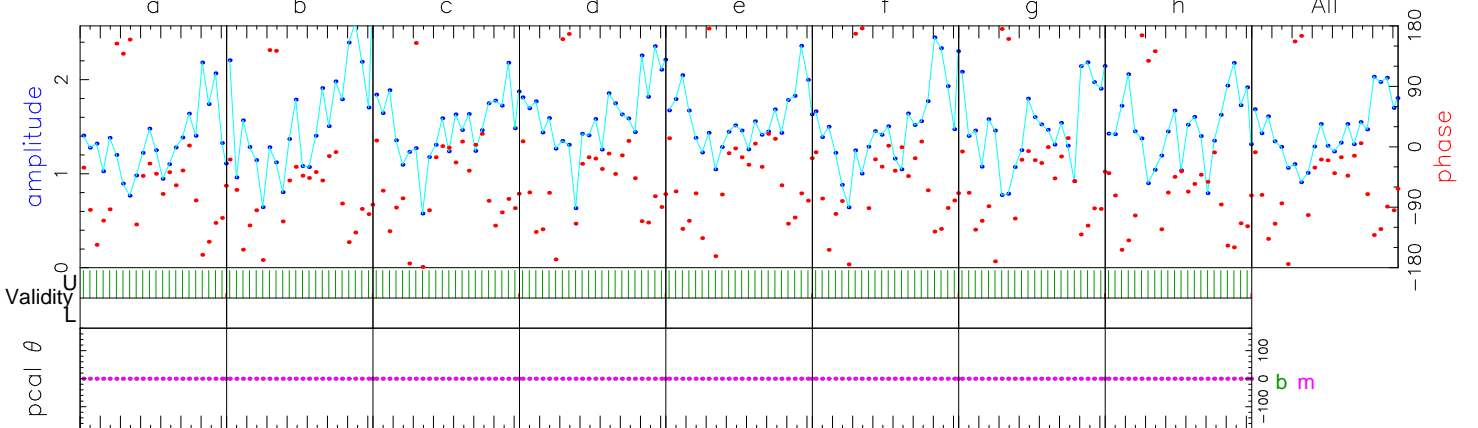
Fringe quality 4

SNR 48.1
Int time 419.821
Amp 0.858
Phase -73.3
PFD 0.0e+00
Delays (us)
SBD 0.004780
MBD 0.004754
Fringe rate (Hz) 0.010287
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012746
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.0	-79.7	-59.7	-64.6	-59.7	-70.3	-66.9	-99.1	Phase	-73.3
	0.8	0.9	0.8	0.9	0.9	0.9	0.9	0.9	Ampl.	0.9
	258.5	258.4	258.4	258.0	258.3	258.1	257.9	257.4	Sbd box	258.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.10766189858E+04		Apriori delay (usec)		-1.10766237395E+04		Resid mbdelay (usec)		4.75370E-03	+/- 2.3E-05
Sband delay (usec)	-1.10766189598E+04		Apriori clock (usec)		-1.8632708E+01		Resid sbdelay (usec)		4.77975E-03	+/- 1.8E-04
Phase delay (usec)	-1.10766237419E+04		Apriori clockrate (us/s)		-4.1800000E-07		Resid phdelay (usec)		-2.36406E-06	+/- 7.7E-08
Delay rate (us/s)	-4.39481285983E-01		Apriori rate (us/s)		-4.39481405408E-01		Resid rate (us/s)		1.19425E-07	+/- 3.2E-10
Total phase (deg)			Apriori accel (us/s/s)		5.40950650119E-05		Resid phase (deg)		-73.3	+/- 2.4

ph/seg (deg) 60.9 5.7 Search (2048X32) 0.827 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.0 10.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 15.6 3.4 Inc. seg. avg. 1.437 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 7.3 5.9 Inc. frq. avg. 0.877 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 233.2 el 21.2 pa 32.5 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) 2596.845 3136.572 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bm.W.3.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

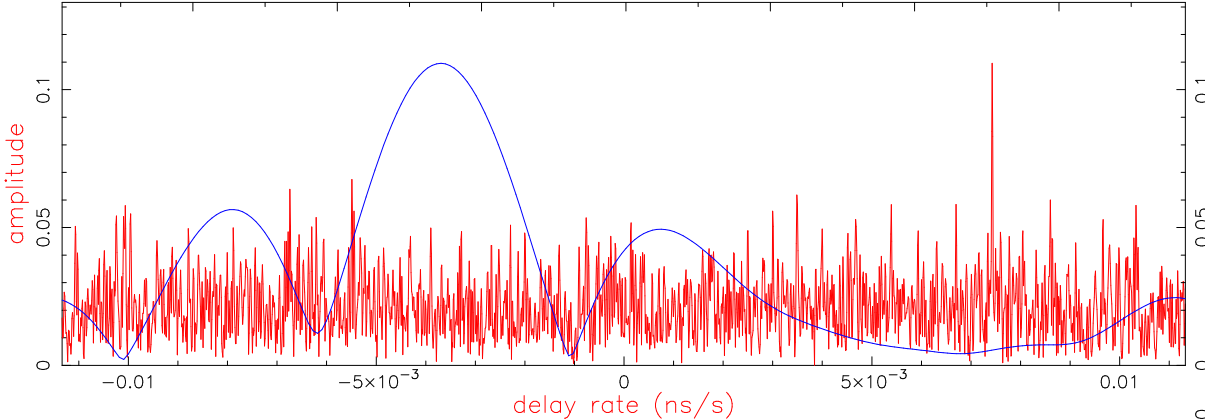
3C279.1W6AM6, No0213, bm

VLBA_BR - VLBA_MK, fgroup W, pol LR

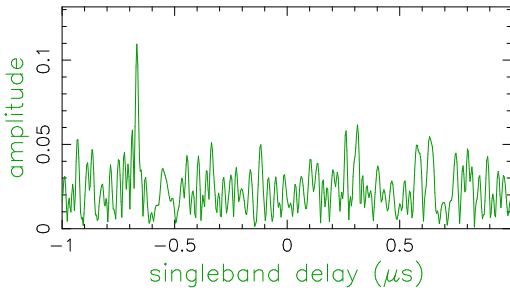
multiband delay (μ s)

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

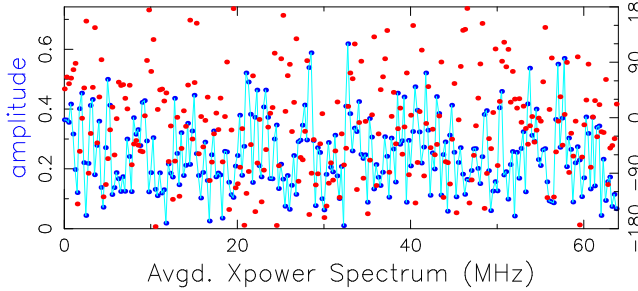
Fringe quality 0



SNR 6.1
Int time 419.821
Amp 0.132
Phase -122.0
PFD 2.0e-01
Delays (us)
SBD -0.667898
MBD -0.002562
Fringe rate (Hz)
0.641011
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

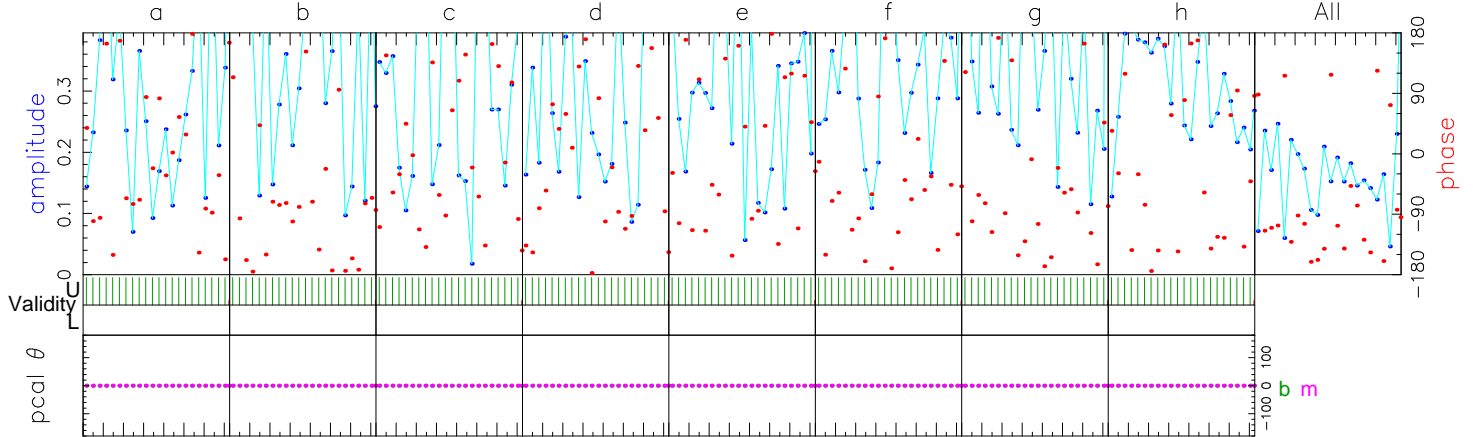


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-123.9	-130.4	-115.7	-65.4	-137.7	-110.0	-115.7	-146.1	Phase	-122.0
	0.1	0.2	0.1	0.0	0.1	0.2	0.2	0.1	Ampl.	0.1
	285.9	493.3	429.0	334.0	150.8	226.2	448.2	143.0	Sbd box	86.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.10772981766E+04		Apriori delay (usec)		-1.10766237395E+04		Resid mbdelay (usec)		-2.56210E-03	+/- 1.8E-04
Sband delay (usec)	-1.10772916378E+04		Apriori clock (usec)		-1.8632708E+01		Resid sbdelay (usec)		-6.67898E-01	+/- 1.4E-03
Phase delay (usec)	-1.10766237435E+04		Apriori clockrate (us/s)		-4.1800000E-07		Resid phdelay (usec)		-3.93566E-06	+/- 6.0E-07
Delay rate (us/s)	-4.39473963902E-01		Apriori rate (us/s)		-4.39481405408E-01		Resid rate (us/s)		7.44151E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		5.40950650119E-05		Resid phase (deg)		-122.0	+/- 18.7

	RMS	Theor.	Amplitude	0.132 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	70.1	44.8	Search (2048X32)	0.106	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	73.0	78.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	26.9	26.4	Inc. seg. avg.	0.148	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	42.8	46.1	Inc. frq. avg.	0.124	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) 2596.845 3136.572 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bm.W.41.1W6AM6

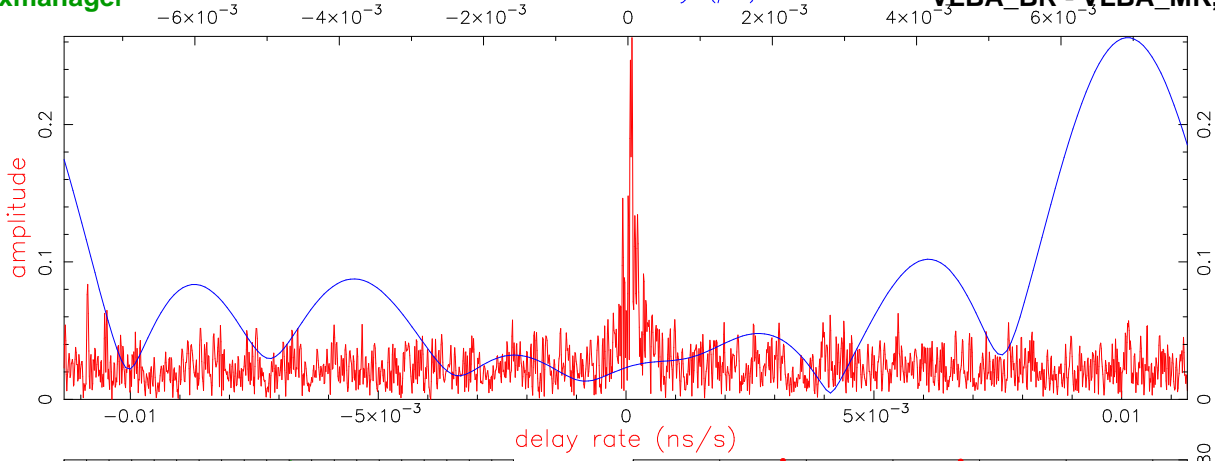
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bm

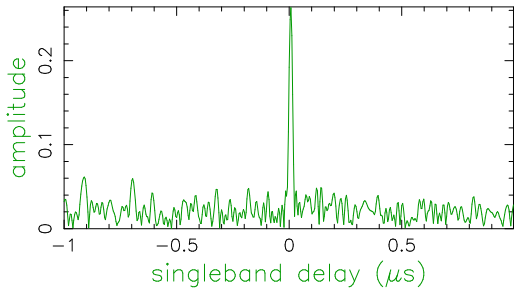
VLBA_BR - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)

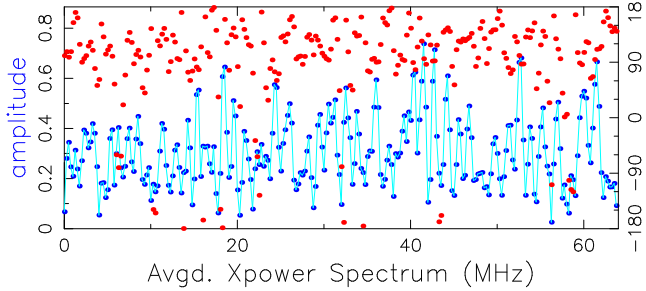


Fringe quality 9

SNR 14.8
Int time 419.821
Amp 0.264
Phase 117.3
PFD 9.5e-41
Delays (us)
SBD 0.007029
MBD 0.006905
Fringe rate (Hz) 0.010258
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

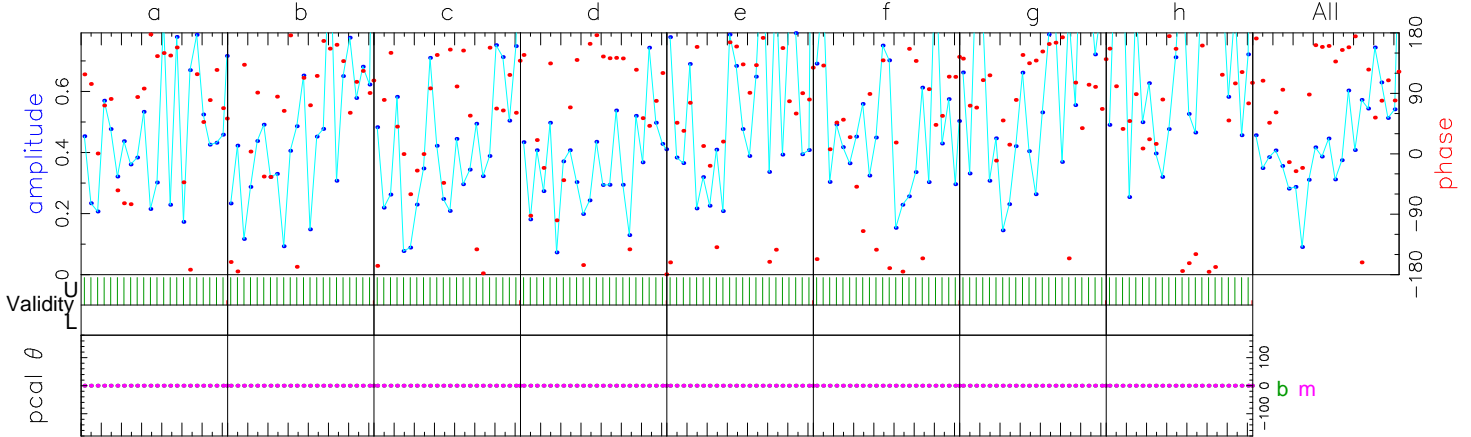


delay rate (ns/s)



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

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



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

Group delay (usec)(sbd) -1.10766168344E+04 Apriori delay (usec) -1.10766237395E+04 Resid mbdelay (usec) 6.90511E-03 +/- 7.3E-05
 Sband delay (usec) -1.10766167105E+04 Apriori clock (usec) 0.257 Resid sbdelay (usec) 7.02900E-03 +/- 5.8E-04
 Phase delay (usec) -1.10766237357E+04 Apriori clockrate (us/s) -4.1800000E-07 Resid phdelay (usec) 3.78258E-06 +/- 2.5E-07
 Delay rate (us/s) -4.39481286324E-01 Apriori rate (us/s) -4.39481405408E-01 Resid rate (us/s) 1.19084E-07 +/- 1.0E-09
 Total phase (deg) -215.1 Apriori accel (us/s/s) 5.40950650119E-05 Resid phase (deg) 117.3 +/- 7.7

RMS Theor. Amplitude 0.264 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 65.4 18.6 Search (2048X32) 0.257 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 85.2 32.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 11.0 11.0 Inc. seg. avg. 0.411 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 30.6 19.1 Inc. frq. avg. 0.262 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 m: az 207.5 el 61.3 pa 27.0 u,v (fr/asec) 2596.845 3136.572 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bm..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bm.W.58.1W6AM6

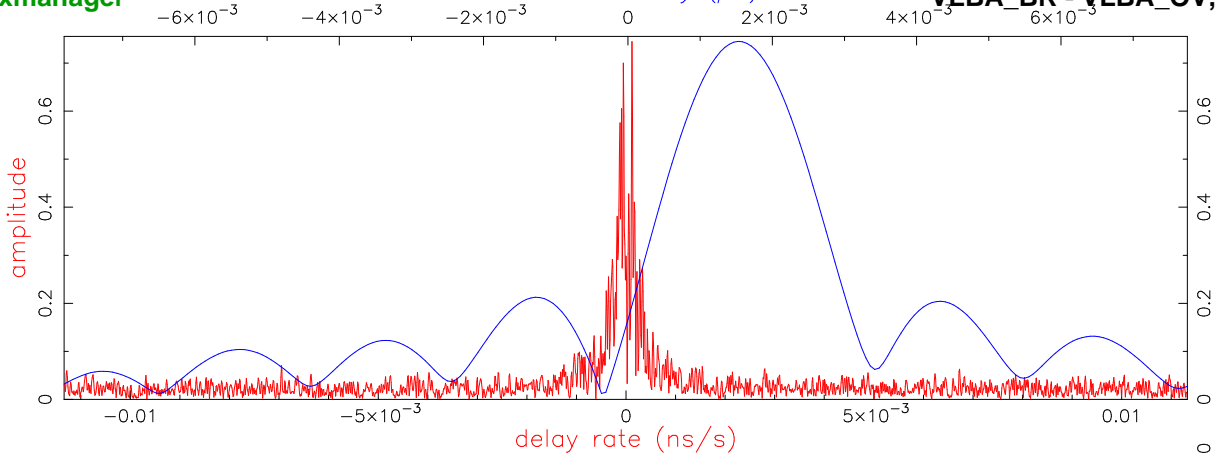
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bo

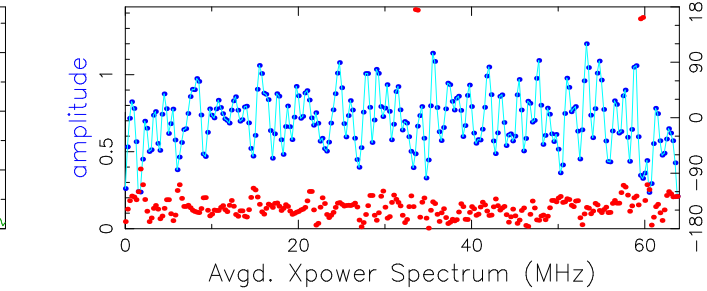
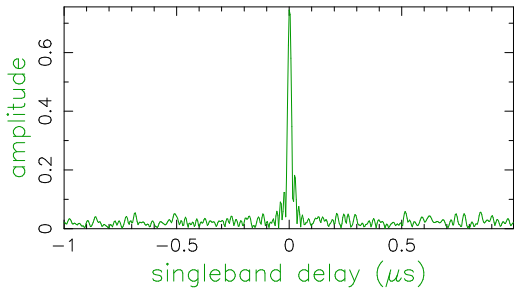
VLBA_BR - VLBA_OV, fgroup W, pol RR

multiband delay (μ s)



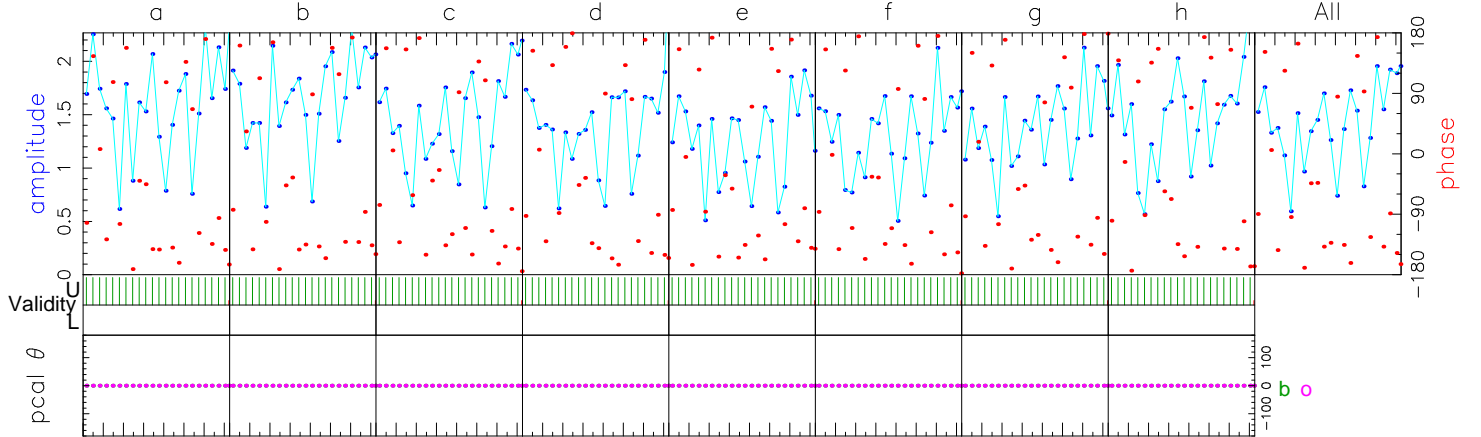
Fringe quality 7

SNR 42.3
 Int time 419.801
 Amp 0.756
 Phase -148.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.001519
 MBD 0.001571
 Fringe rate (Hz) 0.010424
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012751
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All				
	-150.9	-149.6	-135.3	-153.4	-145.6	-140.3	-150.1	-158.7	Phase	-148.1				
	0.8	0.9	0.8	0.7	0.6	0.7	0.8	0.8	Ampl.	0.7				
	257.8	257.2	257.3	257.4	257.7	257.3	257.1	257.5	Sbd box	257.4				
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used					
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
o	1000	1000	1000	1000	1000	1000	1000	1000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks					
									Chan ids					
									Tracks					
Group delay (usec)(sbd)	-1.76012376022E+03								Apriori delay (usec)	-1.76012533101E+03	Resid mbdelay (usec)	1.57079E-03	+/-	2.6E-05
Sband delay (usec)	-1.76012381201E+03								Apriori clock (usec)	-6.6304970E+00	Resid sbdelay (usec)	1.51900E-03	+/-	2.0E-04
Phase delay (usec)	-1.76012533579E+03								Apriori clockrate (us/s)	-4.5999999E-07	Resid phdelay (usec)	-4.77529E-06	+/-	8.7E-08
Delay rate (us/s)	1.70308053441E-01								Apriori rate (us/s)	1.70307932432E-01	Resid rate (us/s)	1.21009E-07	+/-	3.6E-10
Total phase (deg)			-152.9						Apriori accel (us/s/s)	7.70333967446E-06	Resid phase (deg)	-148.1	+/-	2.7

ph/seg (deg) 69.5 6.5
 amp/seg (%) 98.3 11.3
 ph/frq (deg) 8.0 3.8
 amp/frq (%) 9.5 6.7

RMS Theor. Amplitude 0.756 +/- 0.018
 Search (2048X32) 0.739
 Interp. 0.000
 Inc. seg. avg. 1.392
 Inc. frq. avg. 0.749

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 233.2 el 21.2 pa 32.5 o: az 238.4 el 26.5 pa 43.6 u,v (fr/asec) -970.614 1167.159 simultaneous interpolator

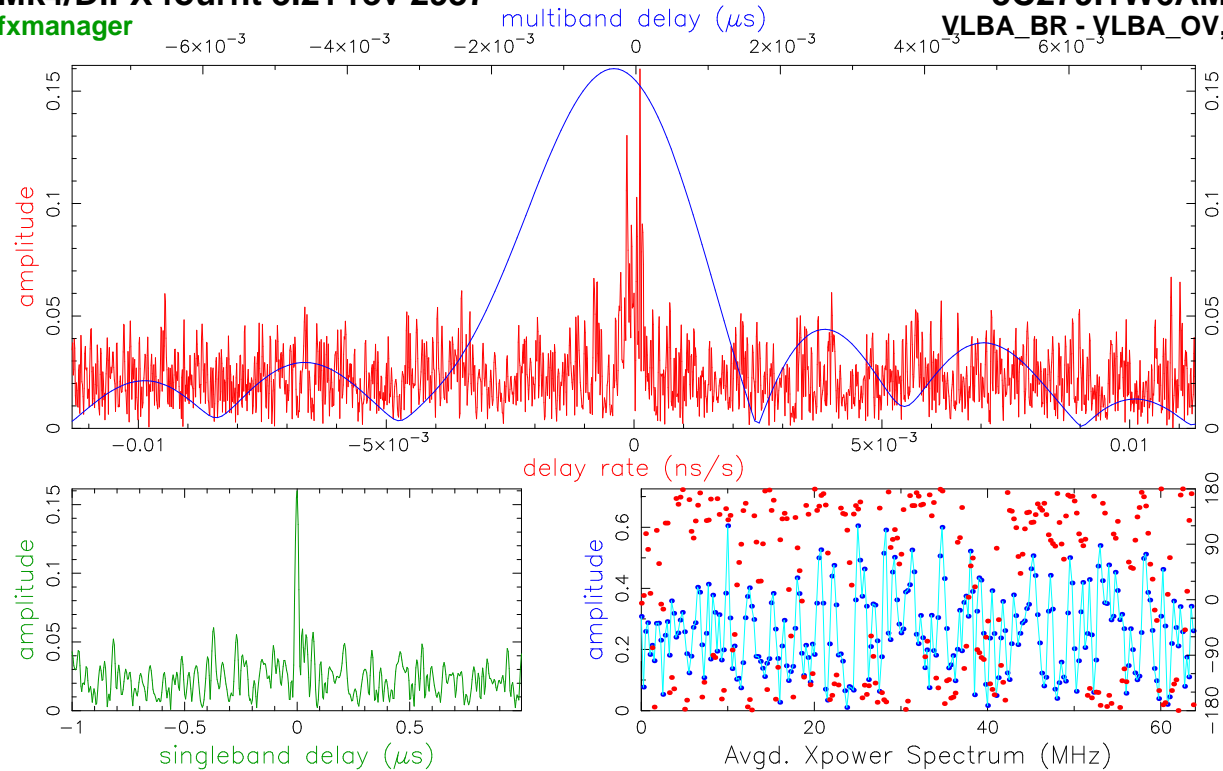
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bo..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bo.W.30.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bo

VLBA_BR - VLBA_OV, fgroup W, pol LR

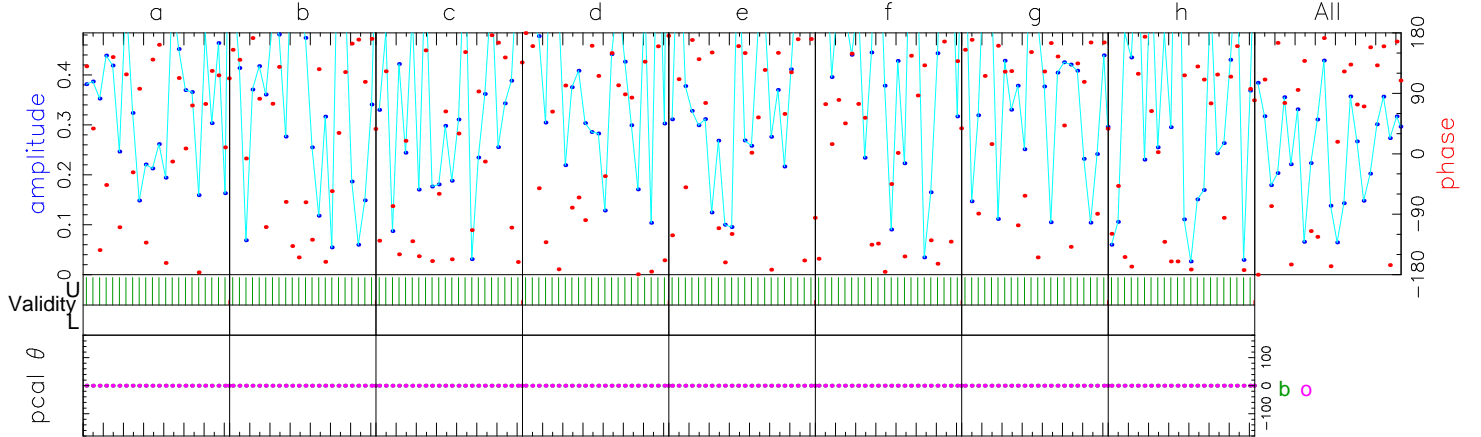


Fringe quality 9

SNR 9.0
 Int time 419.801
 Amp 0.161
 Phase 151.9
 PFD 5.7e-11
 Delays (us)
 SBD -0.001277
 MBD -0.000360
 Fringe rate (Hz)
 0.010195
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012755
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	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	
Group delay (usec)(sbd)	-1.76012569091E+03		Apriori delay (usec)		-1.76012533101E+03		Resid mbdelay (usec)		-3.59894E-04	+/- 1.2E-04
Sband delay (usec)	-1.76012660801E+03		Apriori clock (usec)		-6.6304970E+00		Resid sbdelay (usec)		-1.27700E-03	+/- 9.5E-04
Phase delay (usec)	-1.76012532611E+03		Apriori clockrate (us/s)		-4.5999999E-07		Resid phdelay (usec)		4.89820E-06	+/- 4.1E-07
Delay rate (us/s)	1.70308050792E-01		Apriori rate (us/s)		1.70307932432E-01		Resid rate (us/s)		1.18360E-07	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		7.70333967446E-06		Resid phase (deg)		151.9	+/- 12.7

ph/seg (deg) 61.4 30.4 Search (2048X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.4 53.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.3 17.9 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.1 31.3 Inc. frq. avg. 0.160 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 o: az 238.4 el 26.5 pa 43.6 u,v (fr/asec) -970.614 1167.159 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bo..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bo.W.50.1W6AM6

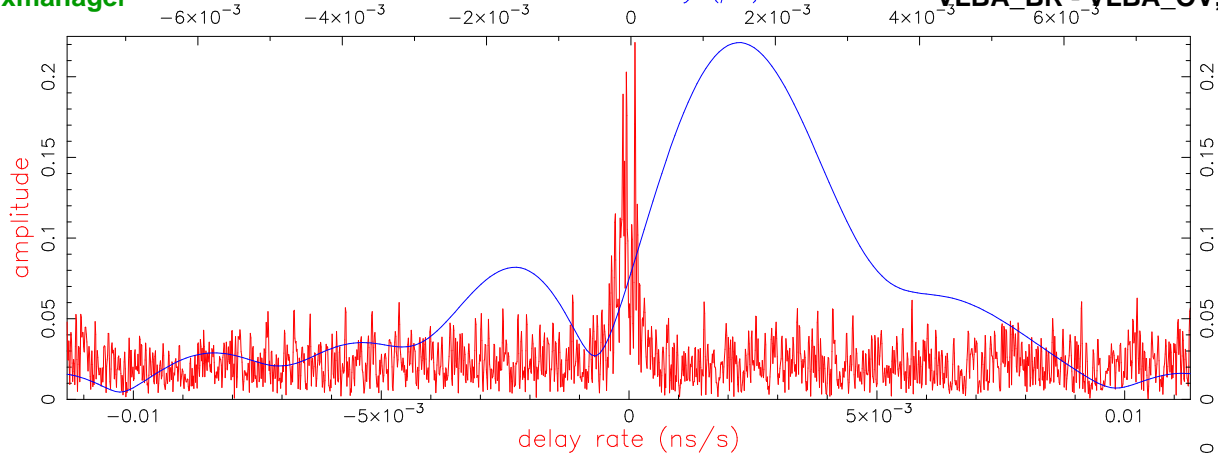
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bo

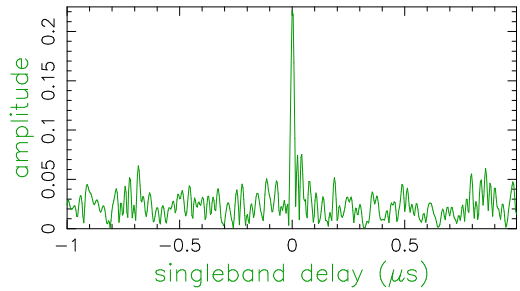
VLBA_BR - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)

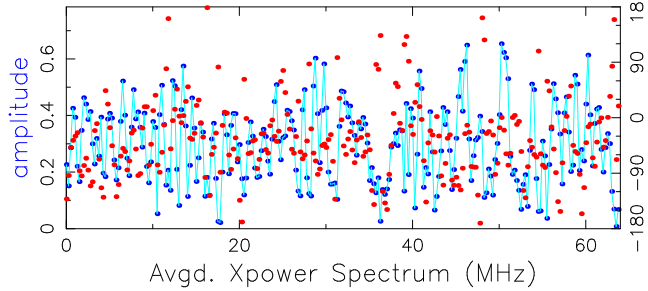


Fringe quality 9

SNR 12.6
 Int time 419.801
 Amp 0.225
 Phase -40.8
 PFD 1.0e-27
 Delays (us)
 SBD 0.001590
 MBD 0.001504
 Fringe rate (Hz)
 0.010339
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

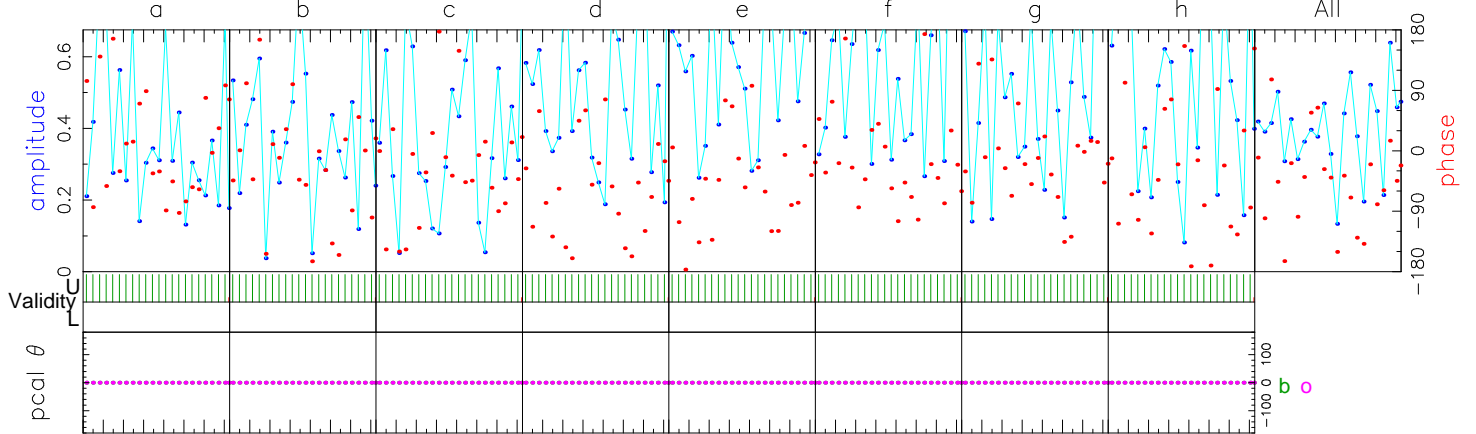


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012759
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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

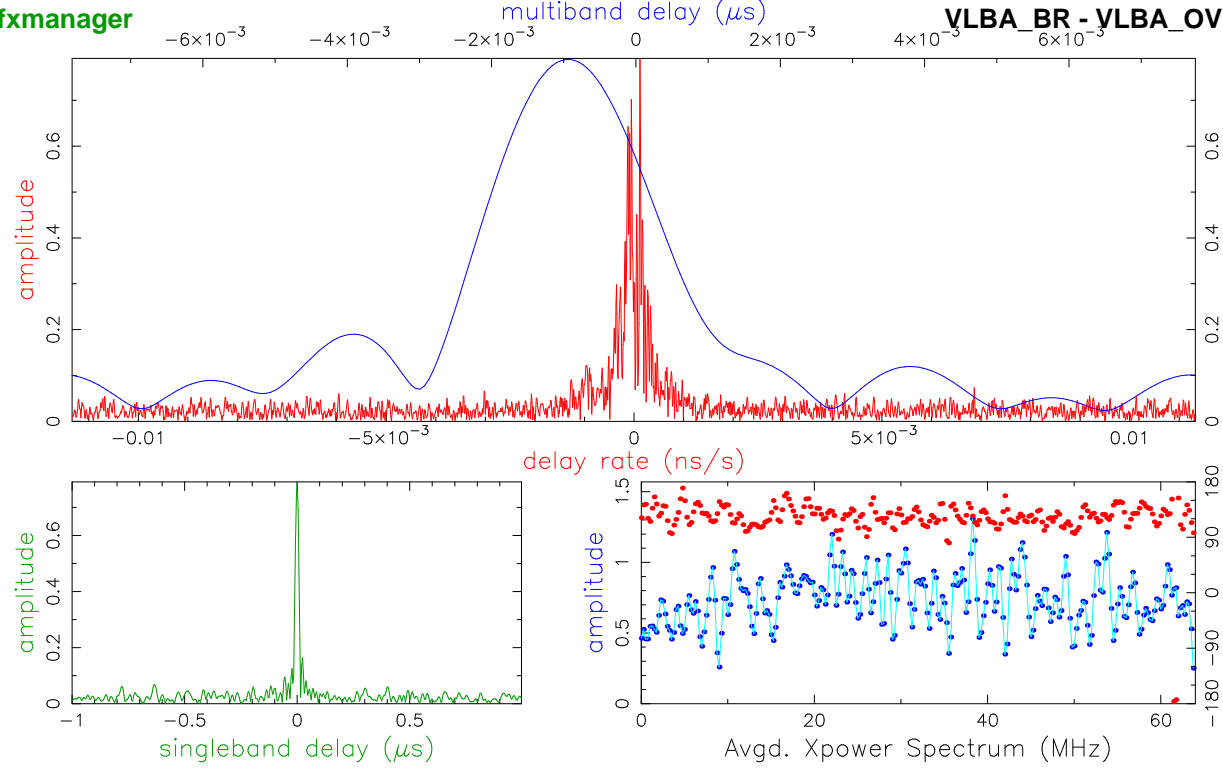


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-22.7	-28.9	-51.2	-70.8	-52.4	-27.0	-20.8	-70.9	Phase	-40.8
	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.2	Ampl.	0.2
	352.5	4.3	57.4	256.8	258.1	257.1	256.6	258.2	Sbd box	257.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	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	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.76012382750E+03		Apriori delay (usec)		-1.76012533101E+03		Resid mbdelay (usec)		1.50351E-03	+/- 8.6E-05
Sband delay (usec)	-1.76012374101E+03		Apriori clock (usec)		-6.6304970E+00		Resid sbdelay (usec)		1.59000E-03	+/- 6.8E-04
Phase delay (usec)	-1.76012533233E+03		Apriori clockrate (us/s)		-4.5999999E-07		Resid phdelay (usec)		-1.31676E-06	+/- 2.9E-07
Delay rate (us/s)	1.70308052455E-01		Apriori rate (us/s)		1.70307932432E-01		Resid rate (us/s)		1.20023E-07	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		7.70333967446E-06		Resid phase (deg)		-40.8	+/- 9.1

	RMS	Theor.	Amplitude	0.225 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	67.7	21.8	Search (2048X32)	0.218	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	91.5	38.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	22.8	12.9	Inc. seg. avg.	0.369	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	37.9	22.4	Inc. frq. avg.	0.228	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 233.2 el 21.2 pa 32.5 o: az 238.4 el 26.5 pa 43.6 u,v (fr/asec) -970.614 1167.159 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bo..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bo.W.70.1W6AM6

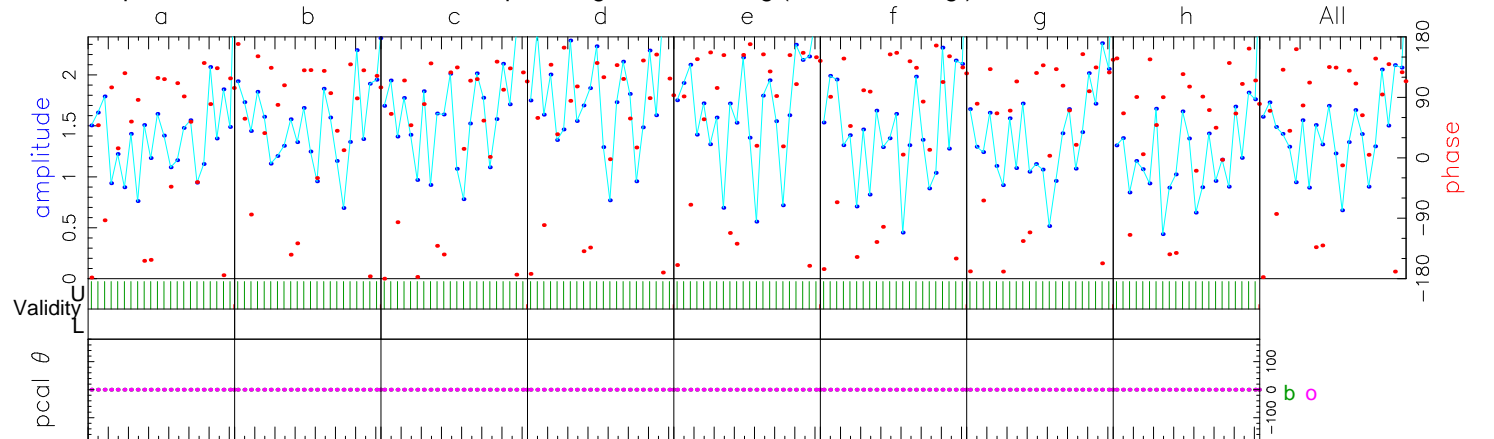


Fringe quality 6

SNR 44.3
Int time 419.801
Amp 0.791
Phase 127.9
PFD 0.0e+00
Delays (us)
SBD -0.000667
MBD -0.000960
Fringe rate (Hz) 0.010409
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012747
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.76012629084E+03									
Sband delay (usec)	-1.76012599801E+03									
Phase delay (usec)	-1.76012532689E+03									
Delay rate (us/s)	1.70308053265E-01									
Total phase (deg)		123.1								
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.791 +/- 0.018										
0.000										
1.442										
0.814										
0.000E+00, 0.000E+00 (us/s)										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										

b: az 233.2 el 21.2 pa 32.5 o: az 238.4 el 26.5 pa 43.6 u,v (fr/asec) -970.614 1167.159 simultaneous interpolator

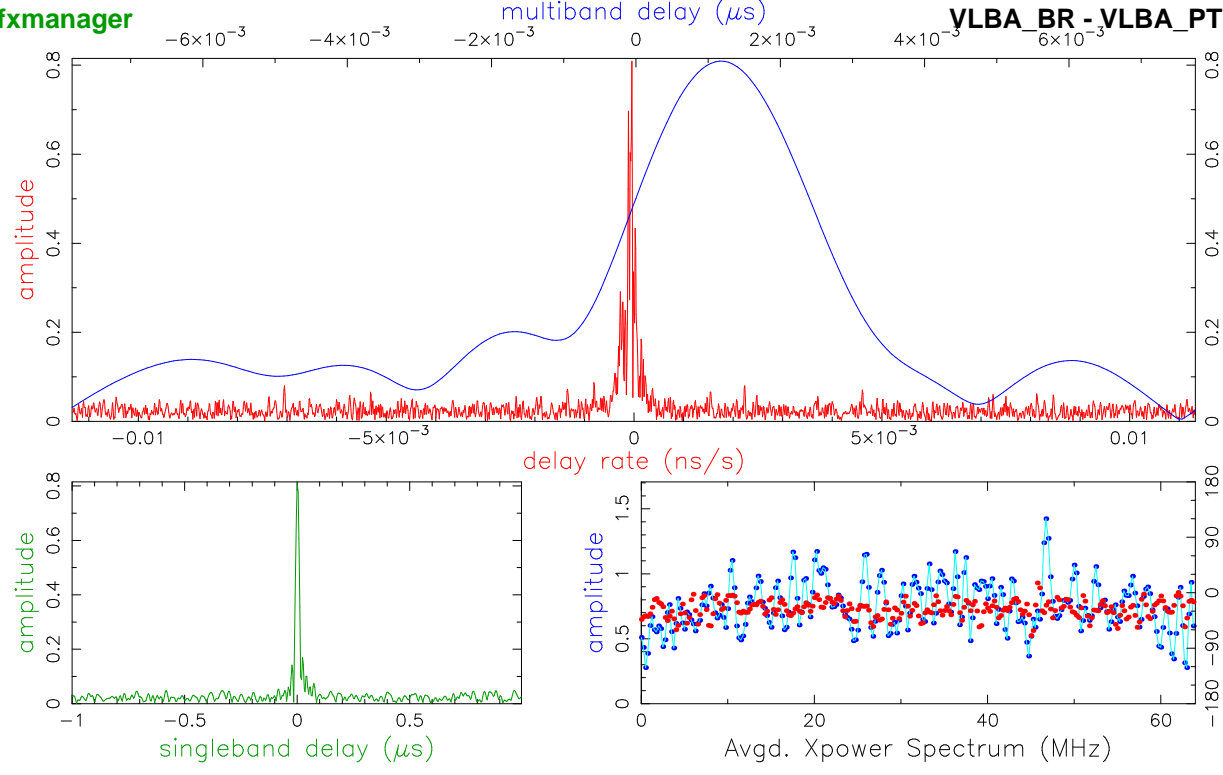
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bo..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bo.W.9.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bp

VLBA_BR - VLBA_PT, fgroup W, pol LL

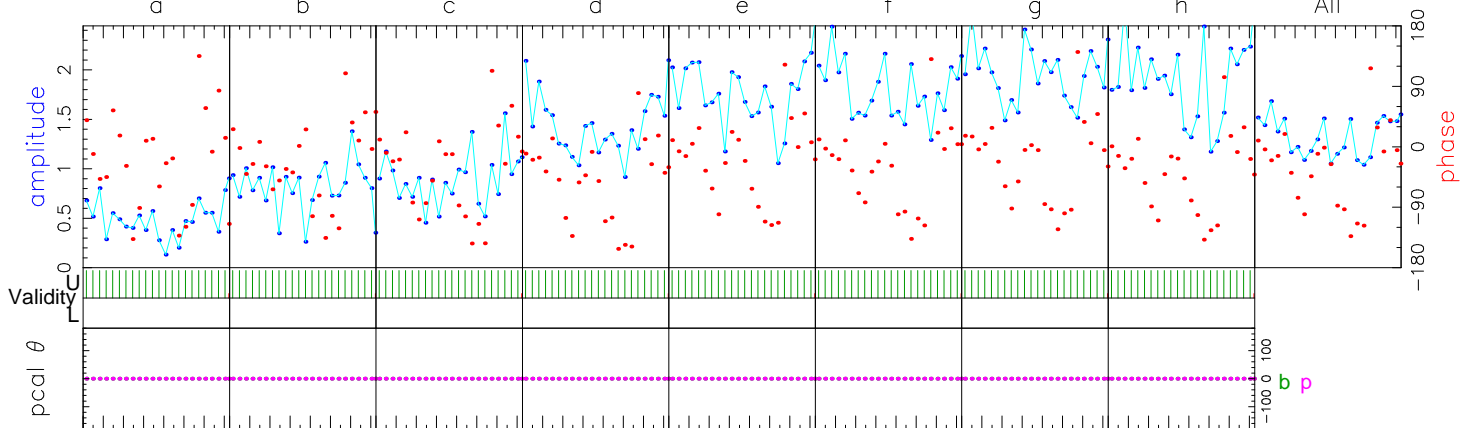


Fringe quality 5

SNR 45.7
 Int time 419.832
 Amp 0.815
 Phase -26.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.001137
 MBD 0.001215
 Fringe rate (Hz) -0.003445
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

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

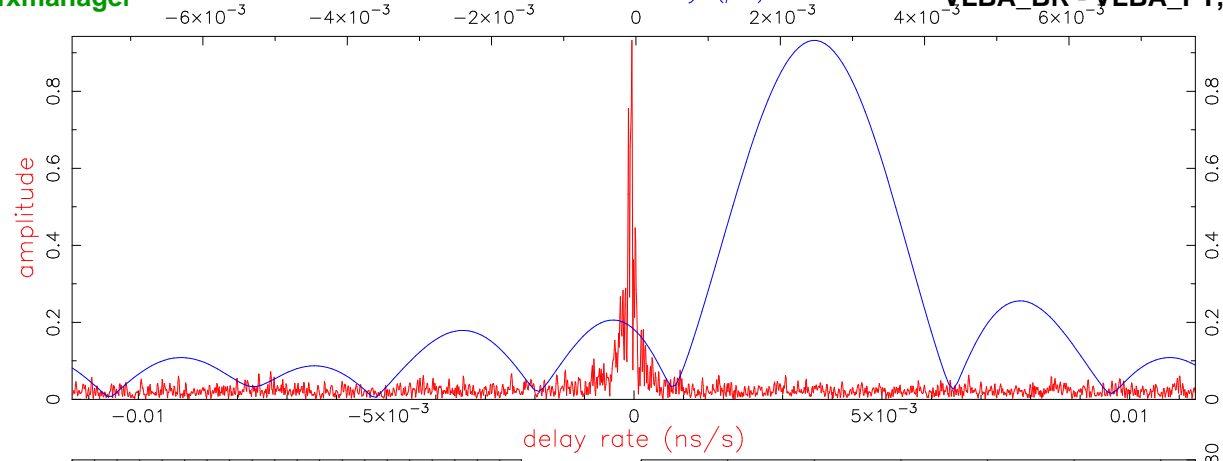
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



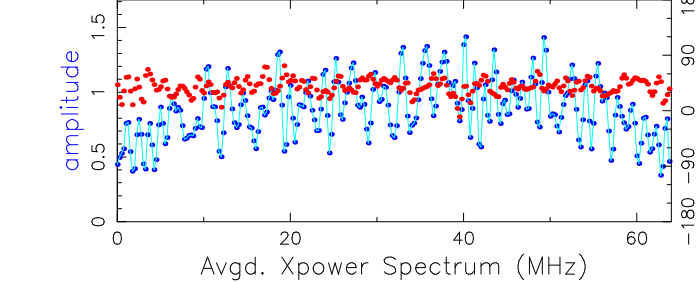
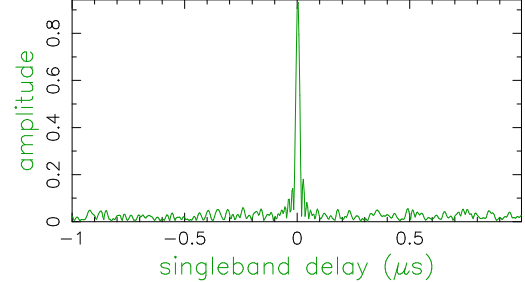
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-9.5	-21.9	-31.8	-40.3	-15.6	-27.5	-19.1	-35.5	Phase	-26.4
	0.2	0.5	0.4	0.8	1.1	1.1	1.2	1.2	Ampl.	0.8
	256.7	257.1	257.0	257.4	257.5	257.3	257.2	257.1	Sbd box	257.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.18235897222E+02		Apriori delay (usec)		3.18234681729E+02		Resid mbdelay (usec)		1.21549E-03	+/- 2.4E-05
Sband delay (usec)	3.18235818479E+02		Apriori clock (usec)		-8.5101948E+00		Resid sbdelay (usec)		1.13675E-03	+/- 1.9E-04
Phase delay (usec)	3.18234680879E+02		Apriori clockrate (us/s)		2.0000000E-08		Resid phdelay (usec)		-8.50385E-07	+/- 8.1E-08
Delay rate (us/s)	3.32563601125E-01		Apriori rate (us/s)		3.32563641113E-01		Resid rate (us/s)		-3.99874E-08	+/- 3.3E-10
Total phase (deg)	147.9		Apriori accel (us/s/s)		-3.83811387466E-06		Resid phase (deg)		-26.4	+/- 2.5

ph/seg (deg) 59.2 6.0 Search (2048X32) 0.761 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.9 10.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.4 3.5 Inc. seg. avg. 1.318 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.2 6.2 Inc. frq. avg. 0.817 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 p: az 247.2 el 20.5 pa 50.3 u,v (fr/asec) -1918.400 1624.572 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bp..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bp.W.14.1W6AM6 simultaneous interpolator

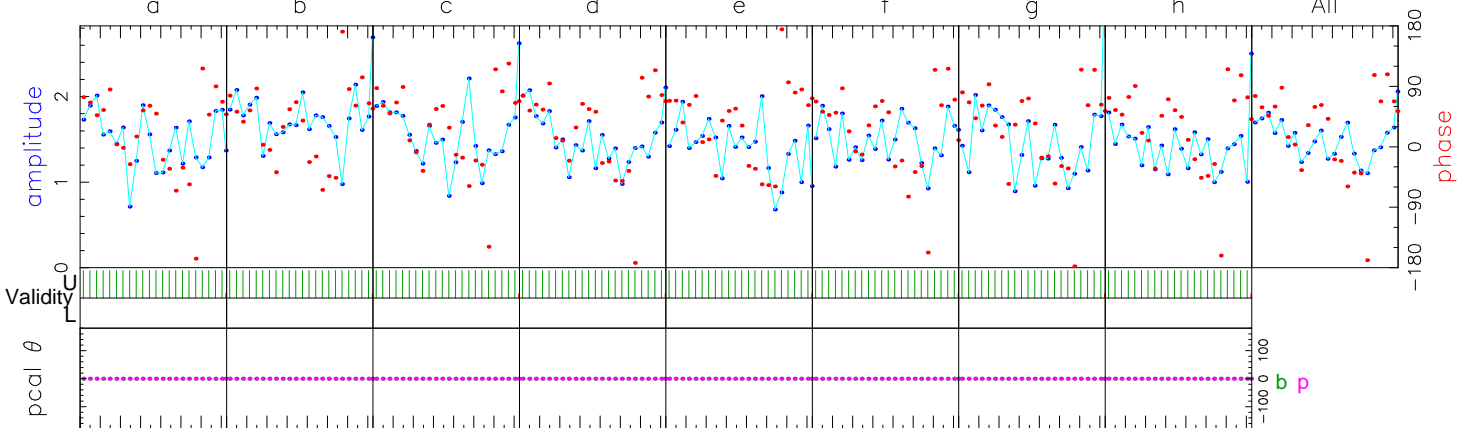
multiband delay (μ s)



Fringe quality 5
SNR 52.8
Int time 419.832
Amp 0.943
Phase 39.8
PFD 0.0e+00
Delays (us)
SBD 0.002509
MBD 0.002439
Fringe rate (Hz)
-0.003510
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012752
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		3.18237120816E+02			3.18234681729E+02				2.43909E-03	+/- 2.1E-05	
Sband delay (usec)		3.18237190729E+02			-8.5101948E+00				2.50900E-03	+/- 1.6E-04	
Phase delay (usec)		3.18234683011E+02			2.0000000E-08				1.28213E-06	+/- 7.0E-08	
Delay rate (us/s)		3.32563600370E-01			3.32563641113E-01				-4.07428E-08	+/- 2.9E-10	
Total phase (deg)			214.1						39.8	+/- 2.2	
ph/seg (deg)	RMS 58.5	Theor. 5.2	Amplitude Search (2048X32)	0.943 +/- 0.018	0.907				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	61.6	9.1	Interp.	0.000					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	5.1	3.1	Inc. seg. avg.	1.481					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	7.6	5.4	Inc. frq. avg.	0.933					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 233.2 el 21.2 pa 32.5 p: az 247.2 el 20.5 pa 50.3 u,v (fr/asec) -1918.400 1624.572 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bp..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bp.W.37.1W6AM6

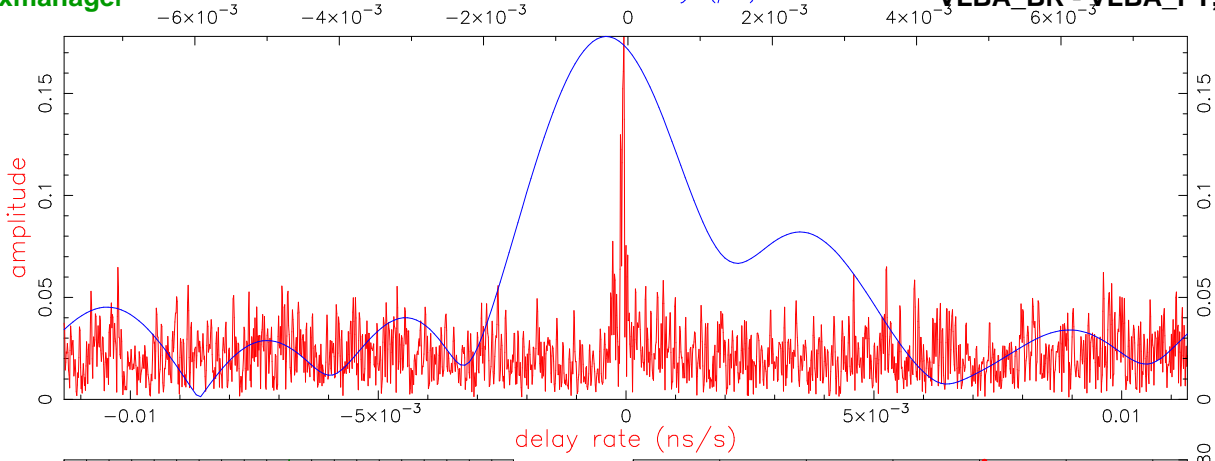
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bp

VLBA_BR - VLBA_PT, fgroup W, pol LR

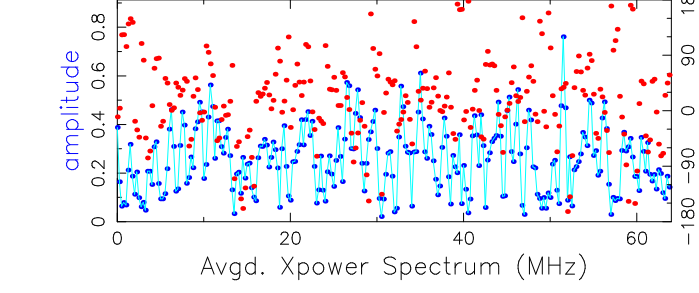
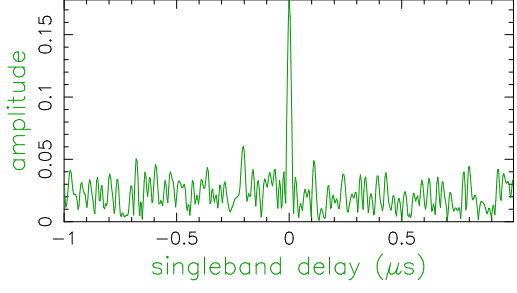
multiband delay (μ s)



Fringe quality 9

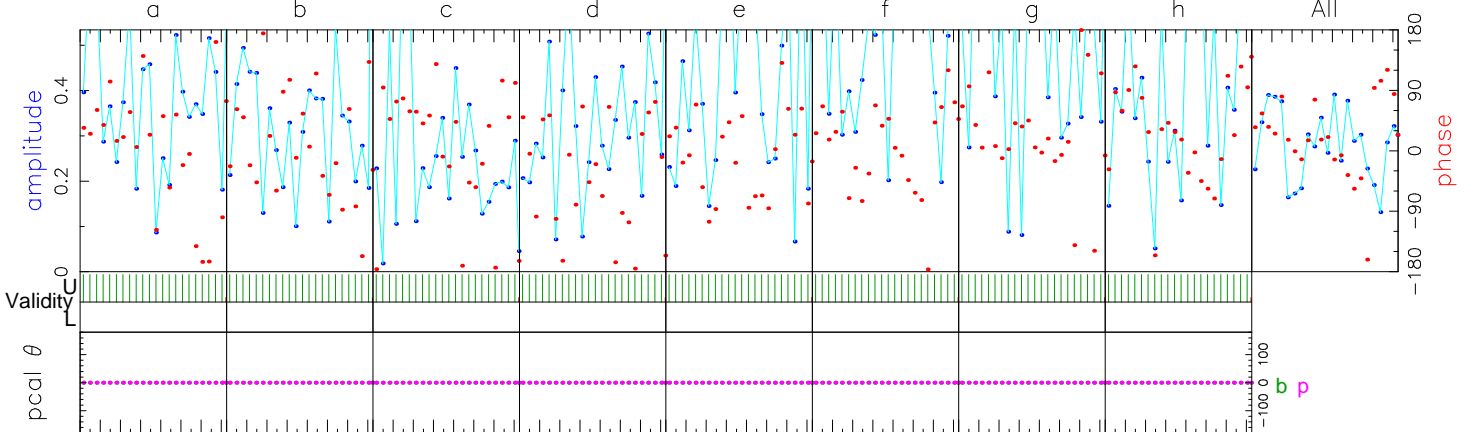
SNR 10.0
 Int time 419.832
 Amp 0.178
 Phase 26.6
 PFD 8.4e-15
 Delays (us)
 SBD 0.000140
 MBD -0.000297
 Fringe rate (Hz)
 -0.003953
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012756
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"



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	1000	1000	1000	1000	1000	1000	1000	1000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	3.18234384347E+02		Apriori delay (usec)		3.18234681729E+02		Resid mbdelay (usec)		-2.97382E-04	+/- 1.1E-04
Sband delay (usec)	3.18234821979E+02		Apriori clock (usec)		-8.5101948E+00		Resid sbdelay (usec)		1.40250E-04	+/- 8.6E-04
Phase delay (usec)	3.18234682586E+02		Apriori clockrate (us/s)		2.0000000E-08		Resid phdelay (usec)		8.56776E-07	+/- 3.7E-07
Delay rate (us/s)	3.32563595224E-01		Apriori rate (us/s)		3.32563641113E-01		Resid rate (us/s)		-4.58883E-08	+/- 1.5E-09
Total phase (deg)	200.9		Apriori accel (us/s/s)		-3.83811387466E-06		Resid phase (deg)		26.6	+/- 11.5

ph/seg (deg) 59.8 27.5 Amplitude 0.178 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.5 48.1 Interp. 0.175 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.7 16.2 Inc. seg. avg. 0.252 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.6 28.4 Inc. frq. avg. 0.181 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 p: az 247.2 el 20.5 pa 50.3 u,v (fr/asec) -1918.400 1624.572 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bp..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bp.W.53.1W6AM6 simultaneous interpolator

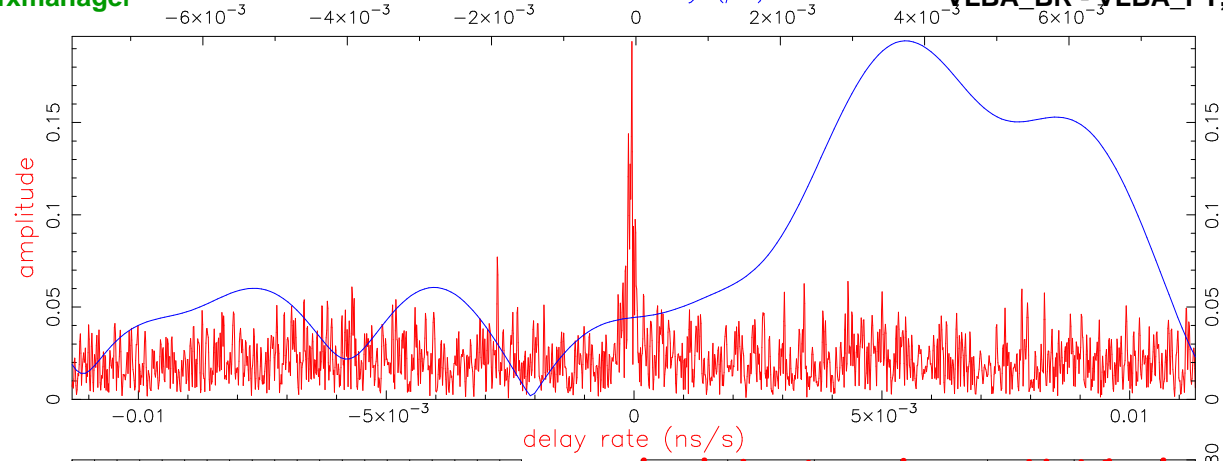
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

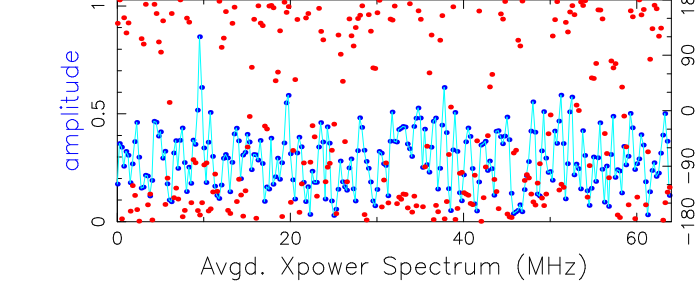
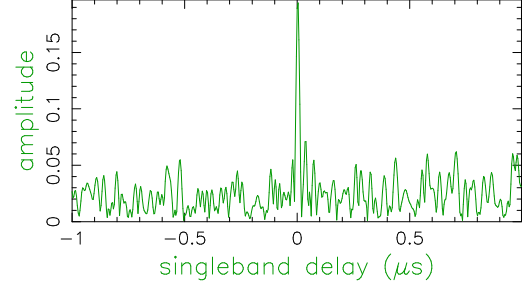
3C279.1W6AM6, No0213, bp

VLBA_BR - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

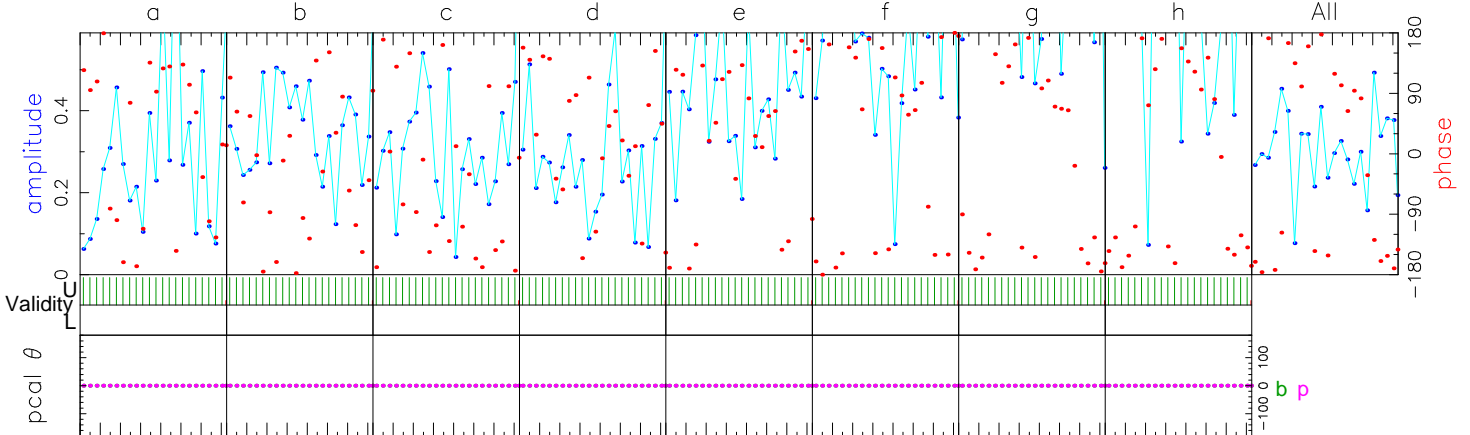


Fringe quality 9
 SNR 11.0
 Int time 419.832
 Amp 0.197
 Phase 174.9
 PFD 1.4e-19
 Delays (us)
 SBD 0.002452
 MBD 0.003651
 Fringe rate (Hz) -0.003416
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012759
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"



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	1000	1000	1000	1000	1000	1000	1000	1000		
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)		3.18238332659E+02				3.18234681729E+02			Resid mbdelay (usec)	3.65093E-03 +/- 9.8E-05
Sband delay (usec)		3.18237134229E+02				-8.5101948E+00			Resid sbdelay (usec)	2.45250E-03 +/- 7.8E-04
Phase delay (usec)		3.18234687370E+02				2.0000000E-08			Resid phdelay (usec)	5.64112E-06 +/- 3.4E-07
Delay rate (us/s)		3.32563601452E-01				3.32563641113E-01			Resid rate (us/s)	-3.96608E-08 +/- 1.4E-09
Total phase (deg)			349.2			-3.83811387466E-06			Resid phase (deg)	174.9 +/- 10.4
	RMS	Theor.	Amplitude	0.197 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	60.4	24.9	Search (2048X32)	0.182					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	74.7	43.5	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	54.2	14.7	Inc. seg. avg.	0.283					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	81.6	25.7	Inc. frq. avg.	0.215					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 p: az 247.2 el 20.5 pa 50.3 u,v (fr/asec) -1918.400 1624.572 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bp..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bp.W.72.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

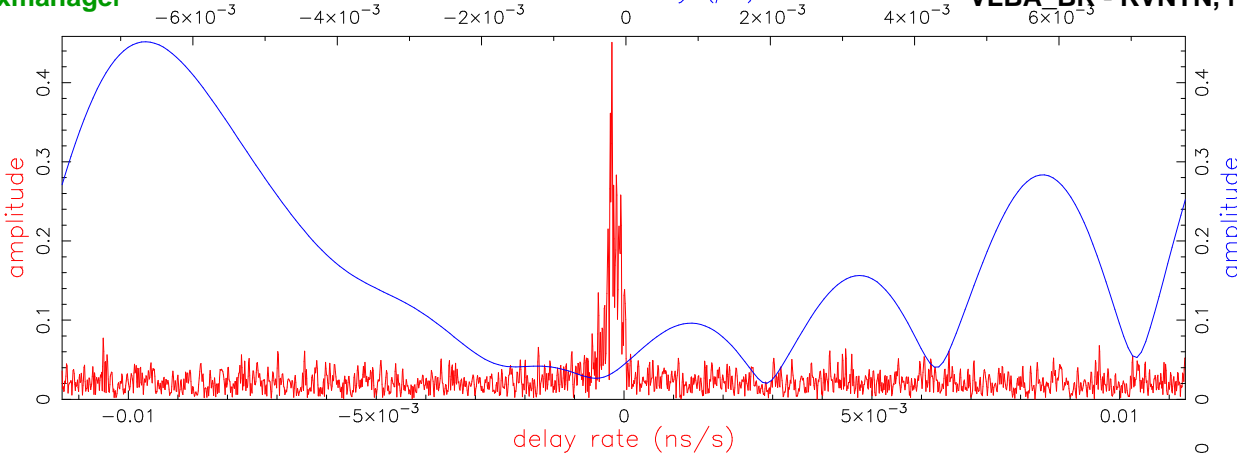
fxmanager

3C279.1W6AM6, No0213, bt

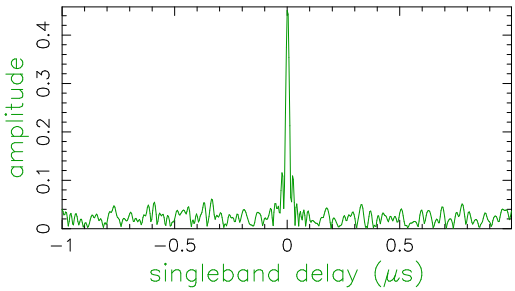
VLBA_BR - KVNTN, fgroup W, pol LL

multiband delay (μ s)

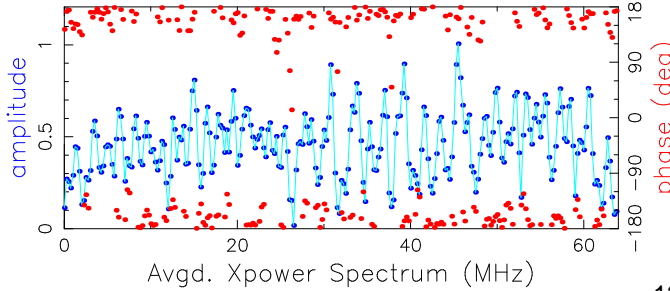
Fringe quality 6



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

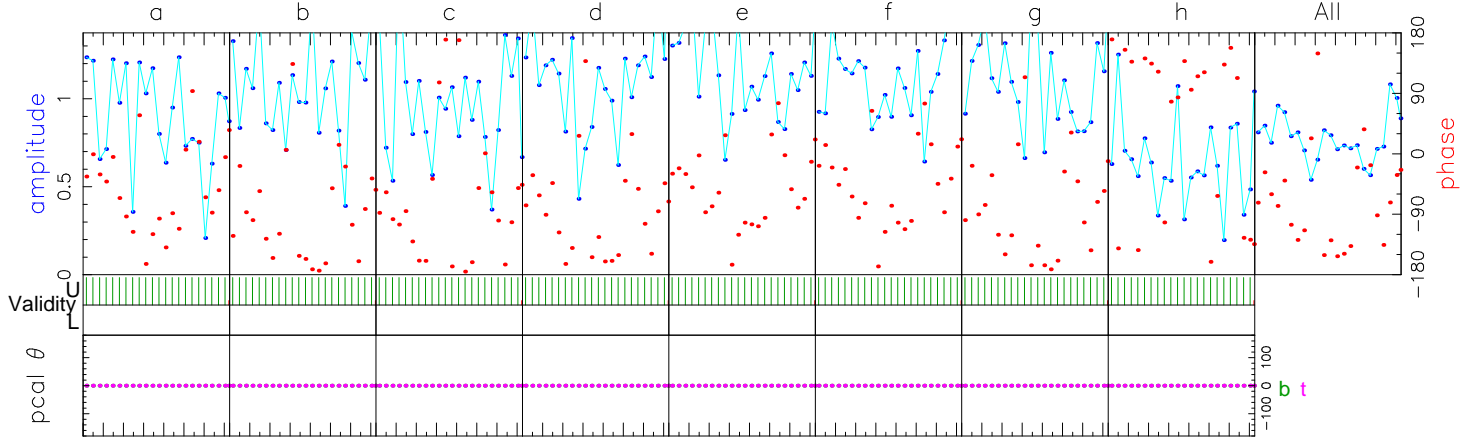


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-53.6	-108.7	-118.5	-93.8	-55.9	-46.1	-97.8	155.4	Phase	-86.0
	0.5	0.6	0.6	0.7	0.8	0.7	0.6	0.4	Ampl.	0.6
	255.3	257.3	258.1	257.5	257.6	257.3	256.6	254.6	Sbd box	257.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.08555646408E+03		Apriori delay (usec)		1.08554741269E+03		Resid mbdelay (usec)		-6.57362E-03	+/- 4.2E-05
Sband delay (usec)	1.08554902494E+03		Apriori clock (usec)		-2.7039776E+00		Resid sbdelay (usec)		1.61225E-03	+/- 3.4E-04
Phase delay (usec)	1.08554740992E+03		Apriori clockrate (us/s)		9.9999998E-08		Resid phdelay (usec)		-2.77230E-06	+/- 1.4E-07
Delay rate (us/s)	-1.94889440232E+00		Apriori rate (us/s)		-1.94889415870E+00		Resid rate (us/s)		-2.43619E-07	+/- 5.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-8.05913192590E-06		Resid phase (deg)		-86.0	+/- 4.5

ph/seg (deg) 61.6 10.7 Search (2048X32) 0.443 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.6 18.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.8 6.3 Inc. seg. avg. 0.761 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.6 11.0 Inc. frq. avg. 0.576 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 11211.008 1803.821 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bt.W.16.1W6AM6

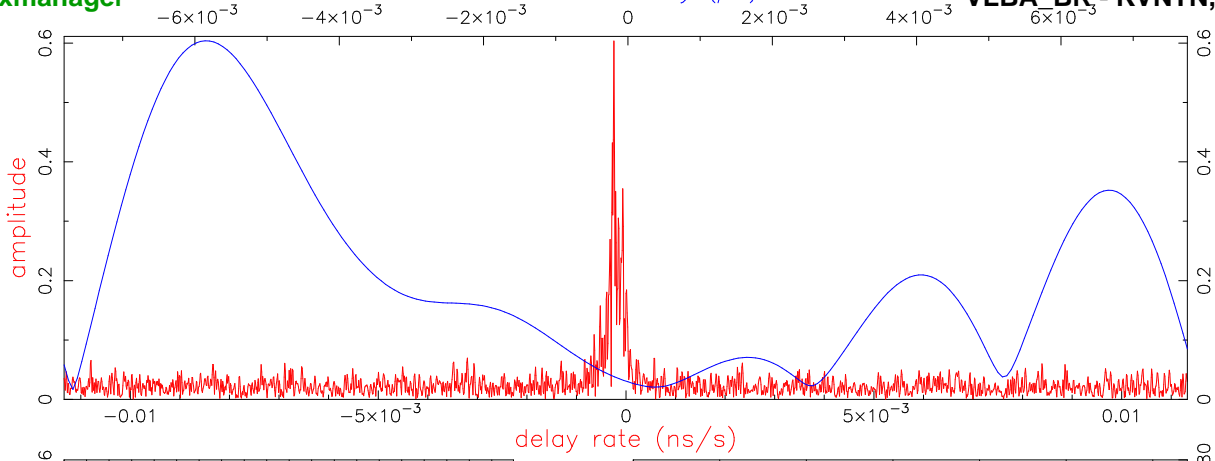
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bt

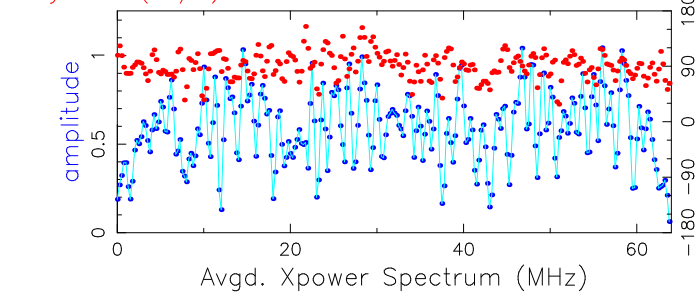
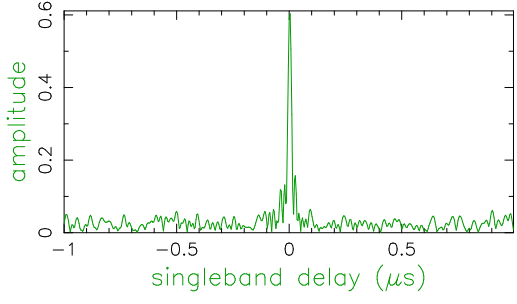
VLBA_BR - KVNTN, fgroup W, pol RR

multiband delay (μ s)



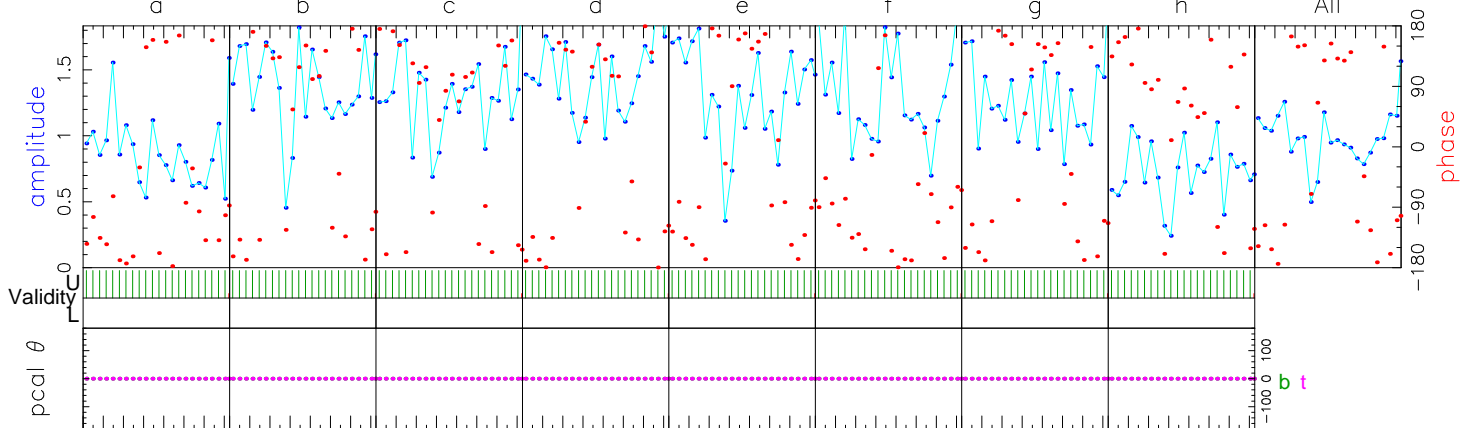
Fringe quality 4

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



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
t	1000	1000	1000	1000	1000	1000	1000	1000			
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
t	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.08555713429E+03				1.08554741269E+03			Resid mbdelay (usec)	-5.90340E-03	+/- 3.2E-05
Sband delay (usec)		1.08554990269E+03				-2.7039776E+00			Resid sbdelay (usec)	2.49000E-03	+/- 2.5E-04
Phase delay (usec)		1.08554740716E+03				9.9999998E-08			Resid phdelay (usec)	-5.53275E-06	+/- 1.1E-07
Delay rate (us/s)		-1.94889440236E+00				-1.94889415870E+00			Resid rate (us/s)	-2.43656E-07	+/- 4.5E-10
Total phase (deg)			-125.0			-8.05913192590E-06			Resid phase (deg)	-171.6	+/- 3.3
ph/seg (deg)	RMS 59.5	Theor. 8.0	Amplitude 0.611 +/- 0.018						Pcal mode: MANUAL, MANUAL		
amp/seg (%)	66.4	14.0	Search (2048X32) 0.600						Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	44.1	4.7	Interp. 0.000						Bits/sample: 2x2	mb window (us)	-0.008 0.008
amp/frq (%)	31.2	8.3	Inc. seg. avg. 0.965						Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
			Inc. frq. avg. 0.729						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00
b: az 233.2 el 21.2 pa 32.5			t: az 109.2 el 17.0 pa -52.6			u,v (fr/asec) 11211.008 1803.821			nlags: 256	t_cohere infinite	
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6			Output file: /Exps/c211a/v2/1234/No0213/bt.W.36.1W6AM6					simultaneous interpolator

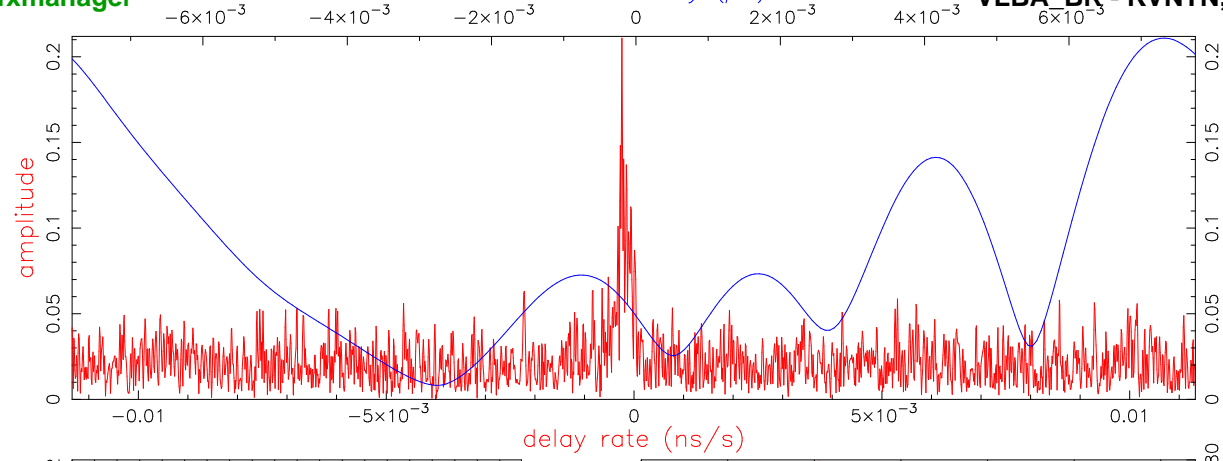
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

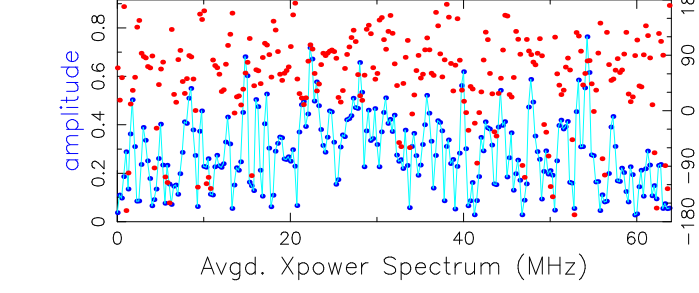
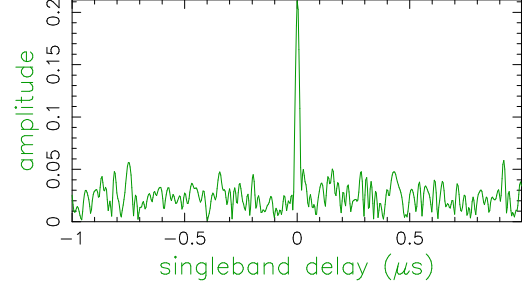
3C279.1W6AM6, No0213, bt

VLBA_BR - KVNTN, fgroup W, pol LR

multiband delay (μ s)

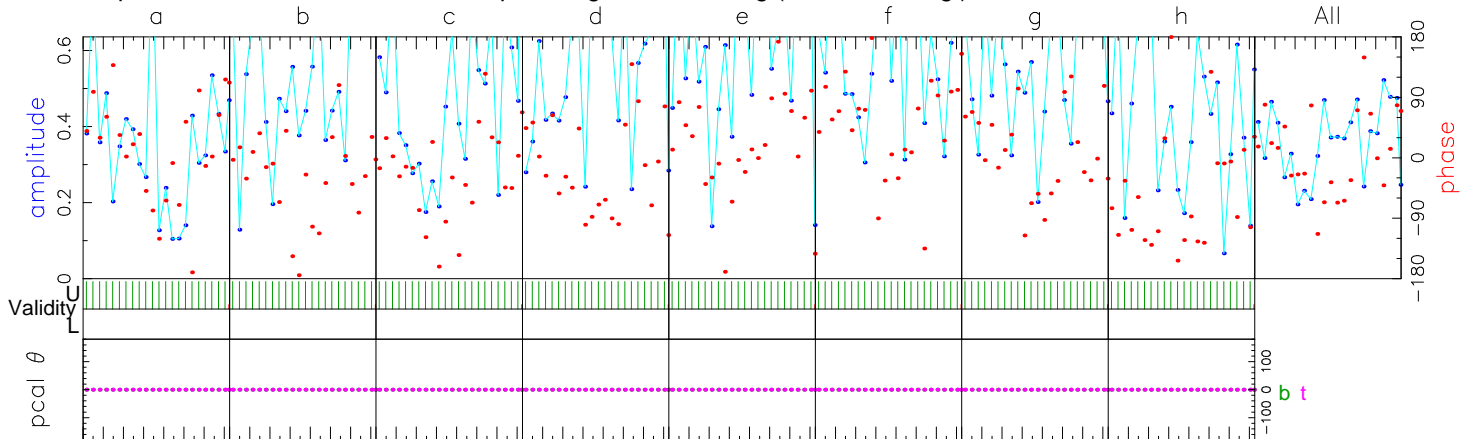


Fringe quality 9
 SNR 11.9
 Int time 419.832
 Amp 0.212
 Phase 1.5
 PFD 8.2e-24
 Delays (us)
 SBD 0.000969
 MBD 0.007349
 Fringe rate (Hz)
 -0.021002
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012757
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"



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	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.08555476161E+03				1.08554741269E+03			7.34891E-03	+/- 9.1E-05
Sband delay (usec)		1.08554838144E+03				-2.7039776E+00			9.68750E-04	+/- 7.3E-04
Phase delay (usec)		1.08554741274E+03				9.9999998E-08			4.87204E-08	+/- 3.1E-07
Delay rate (us/s)		-1.94889440251E+00				-1.94889415870E+00			-2.43815E-07	+/- 1.3E-09
Total phase (deg)			48.1			-8.05913192590E-06			1.5	+/- 9.7
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 62.1 23.1 Search (2048X32) 0.210 0.210 +/- 0.018
 amp/seg (%) 85.7 40.4 Interp. 0.000
 ph/frq (deg) 52.3 13.6 Inc. seg. avg. 0.340
 amp/frq (%) 43.0 23.8 Inc. frq. avg. 0.274
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 233.2 el 21.2 pa 32.5 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 11211.008 1803.821 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bt.W.61.1W6AM6

Mk4/DiFX fourfit 3.21 rev 2937

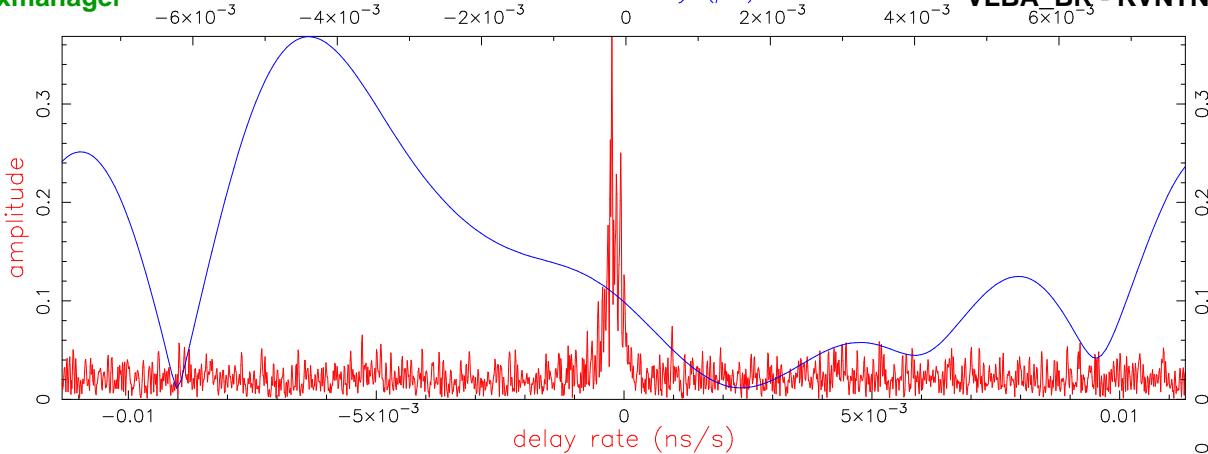
fxmanager

3C279.1W6AM6, No0213, bt

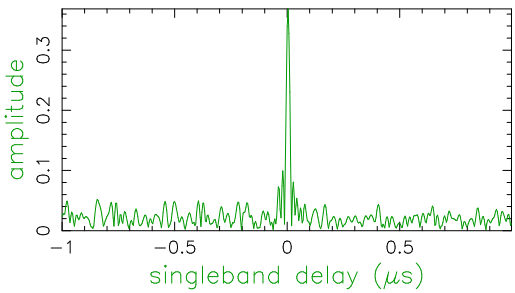
VLBA_BR - KVNTN, fgroup W, pol RL

multiband delay (μ s)

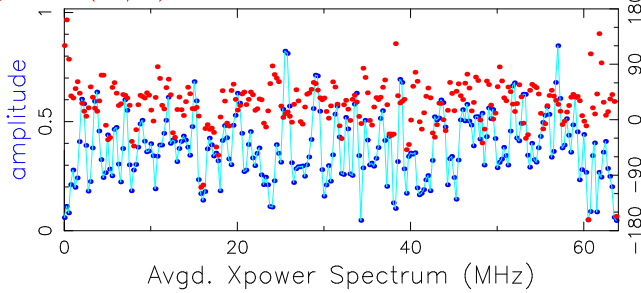
Fringe quality 7



SNR 20.6
 Int time 419.832
 Amp 0.369
 Phase 118.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.003574
 MBD -0.004418
 Fringe rate (Hz)
 -0.021048
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

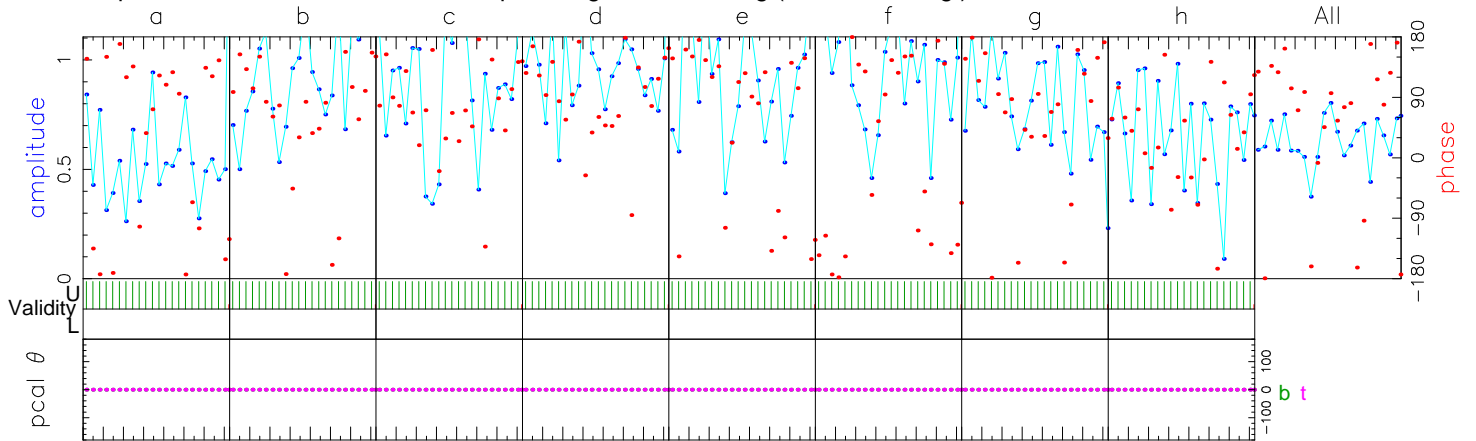


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All			
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0					
b	1000	1000	1000	1000	1000	1000	1000	1000					
t	1000	1000	1000	1000	1000	1000	1000	1000					
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0					
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0					
b	1000	1000	1000	1000	1000	1000	1000	1000					
t	1000	1000	1000	1000	1000	1000	1000	1000					
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR					
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL					
Group delay (usec)(sbd)		1.08555861923E+03				1.08554741269E+03			Resid mbdelay (usec)	-4.41846E-03	+/- 5.3E-05		
Sband delay (usec)		1.08555098644E+03				-2.7039776E+00			Resid sbdelay (usec)	3.57375E-03	+/- 4.2E-04		
Phase delay (usec)		1.08554741650E+03				9.9999998E-08			Resid phdelay (usec)	3.80843E-06	+/- 1.8E-07		
Delay rate (us/s)		-1.94889440305E+00				-1.94889415870E+00			Resid rate (us/s)	-2.44347E-07	+/- 7.4E-10		
Total phase (deg)			164.7			-8.05913192590E-06			Resid phase (deg)	118.1	+/- 5.5		
	RMS	Theor.	Amplitude	0.369 +/- 0.018		Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5				
ph/seg (deg)	60.2	13.3	Search (2048X32)	0.365		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000	1.000		
amp/seg (%)	76.1	23.2	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	49.5	7.8	Inc. seg. avg.	0.613		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011		
amp/frq (%)	40.3	13.7	Inc. frq. avg.	0.477		Data rate(Mb/s): 2048			nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 233.2 el 21.2 pa 32.5 t: az 109.2 el 17.0 pa -52.6 u,v (fr/asec) 11211.008 1803.821 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bt..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bt.W.79.1W6AM6

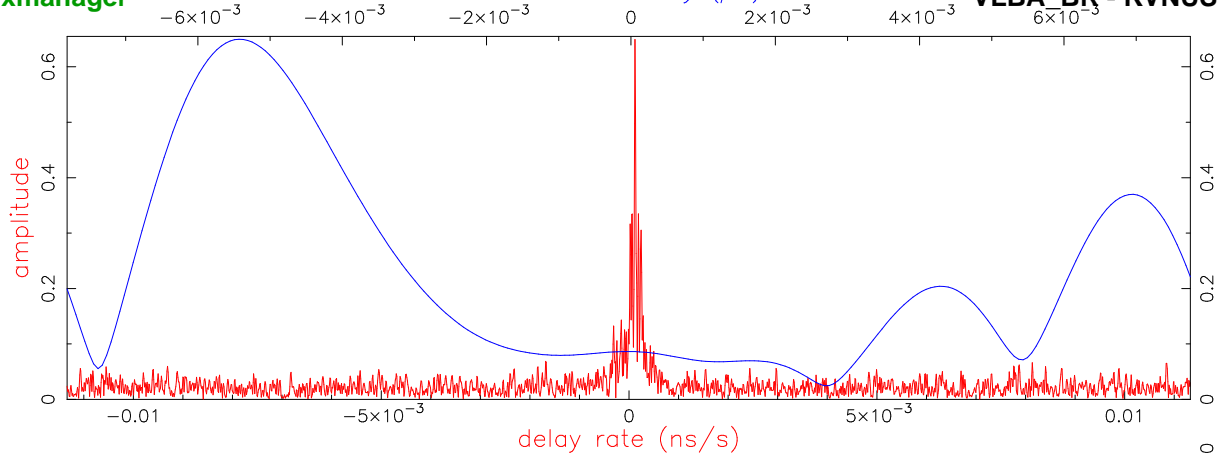
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bu

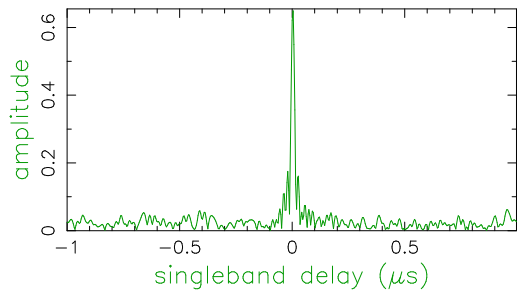
VLBA_BR - KVNUS, fgroup W, pol LL

multiband delay (μ s)

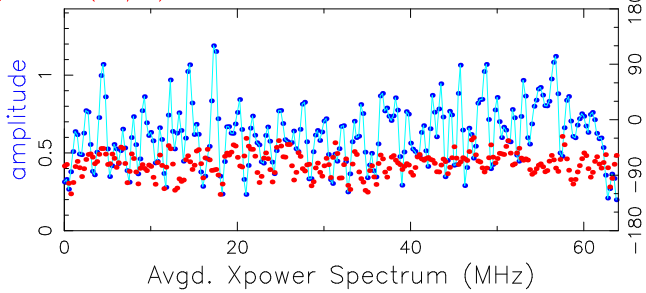


Fringe quality 4

SNR 36.7
 Int time 419.832
 Amp 0.655
 Phase 23.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.002781
 MBD -0.005473
 Fringe rate (Hz) 0.010060
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

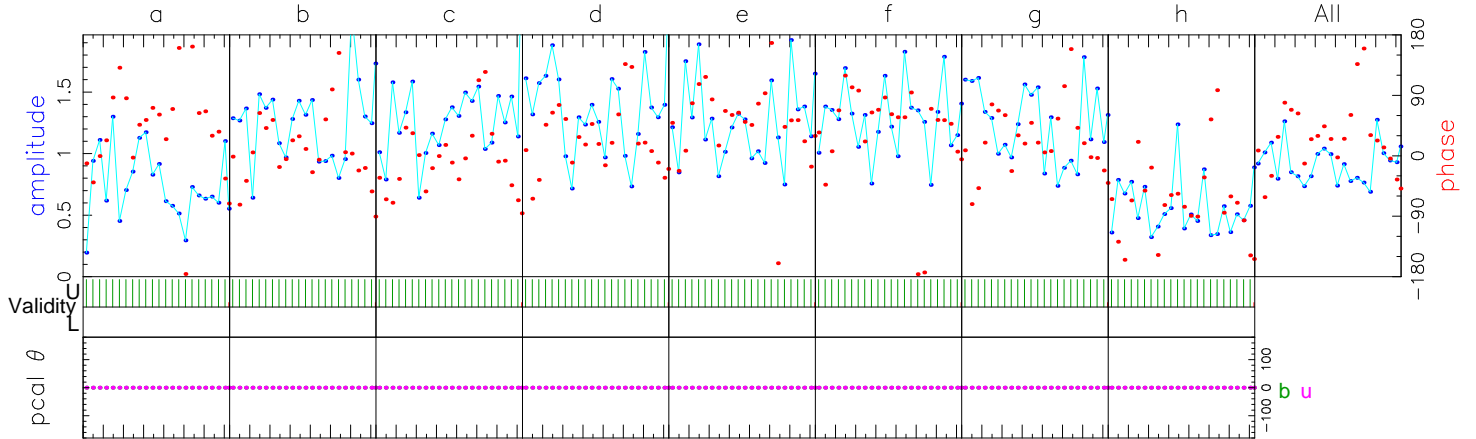


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012747
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
u	1000	1000	1000	1000	1000	1000	1000	1000		
b:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	5.97729082632E+02		Apriori delay (usec)		5.97718930432E+02		Resid mbdelay (usec)		-5.47280E-03	+/- 3.0E-05
Sband delay (usec)	5.97721710932E+02		Apriori clock (usec)		-1.7494688E+01		Resid sbdelay (usec)		2.78050E-03	+/- 2.3E-04
Phase delay (usec)	5.97718931205E+02		Apriori clockrate (us/s)		-1.2269999E-06		Resid phdelay (usec)		7.72190E-07	+/- 1.0E-07
Delay rate (us/s)	-1.89014283109E+00		Apriori rate (us/s)		-1.89014294787E+00		Resid rate (us/s)		1.16784E-07	+/- 4.2E-10
Total phase (deg)	264.2		Apriori accel (us/s/s)		-5.16760973910E-06		Resid phase (deg)		23.9	+/- 3.1

ph/seg (deg) 50.8 7.5 Search (2048X32) 0.613 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 46.7 13.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.8 4.4 Inc. seg. avg. 0.910 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.5 7.7 Inc. frq. avg. 0.778 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 u: az 111.7 el 18.4 pa -49.2 u,v (fr/asec) 10876.102 1494.054 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bu..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bu.W.11.1W6AM6

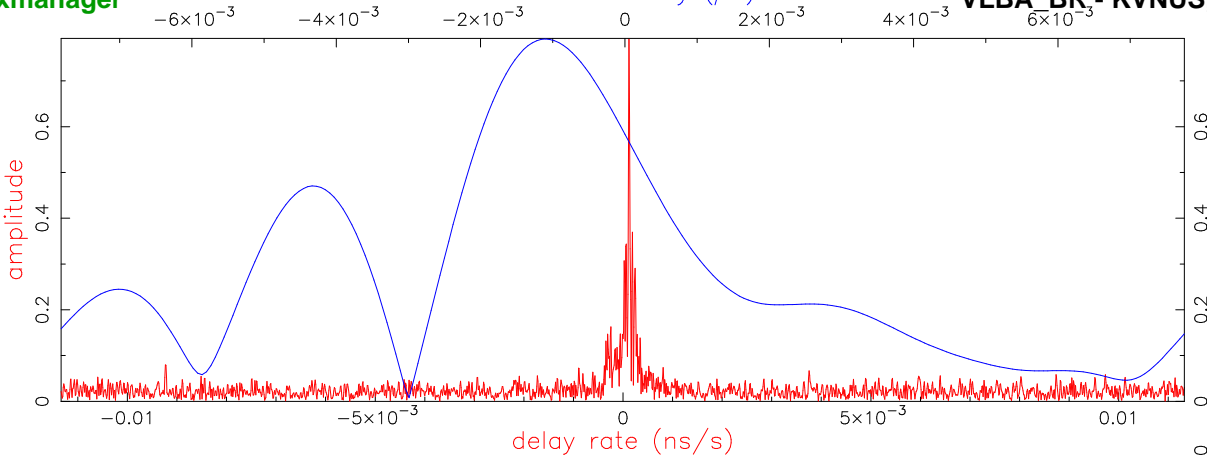
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bu

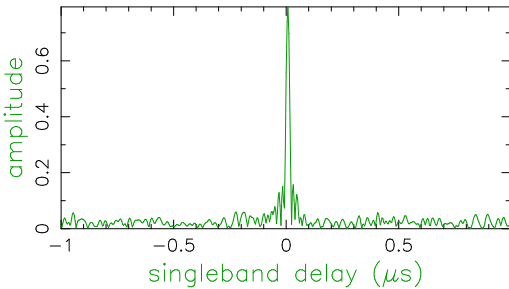
VLBA_BR - KVNUS, fgroup W, pol RR

multiband delay (μ s)

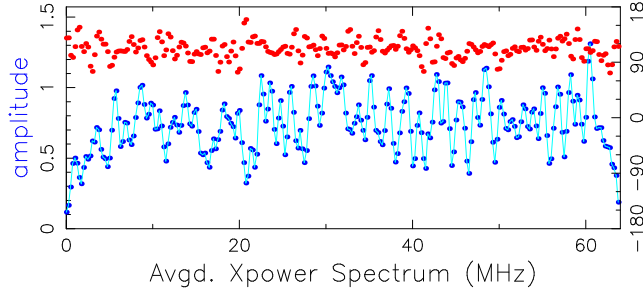


Fringe quality 5

SNR 44.4
 Int time 419.832
 Amp 0.793
 Phase -152.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.007237
 MBD -0.001127
 Fringe rate (Hz)
 0.010039
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

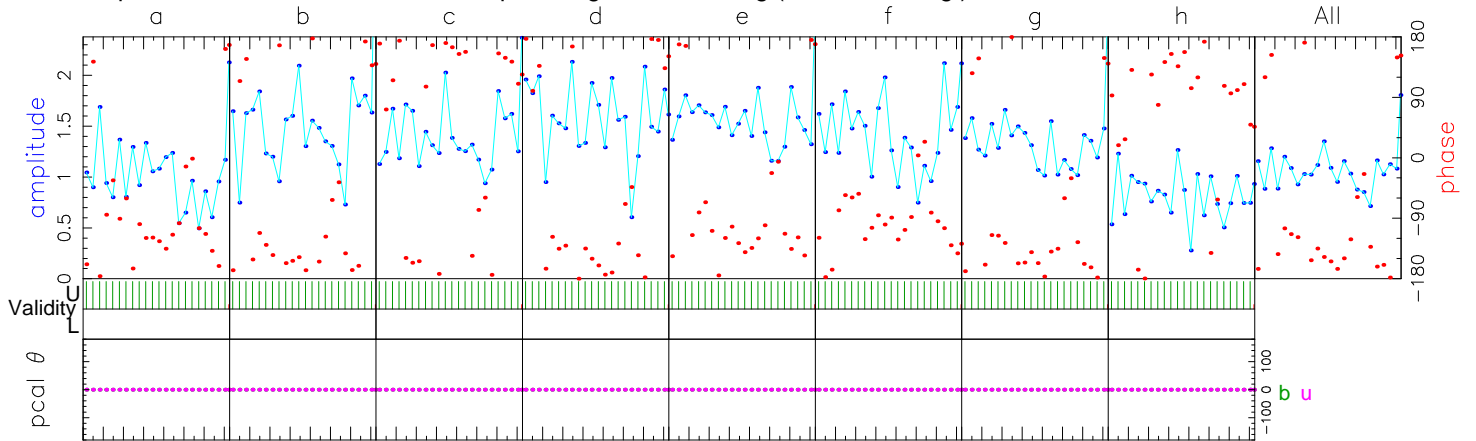


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012751
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.6	-159.5	165.7	-168.5	-126.1	-99.3	-155.6	123.1	Phase	-152.3
	0.7	1.1	1.0	1.2	1.2	1.1	1.0	0.5	Ampl.	1.0
	256.8	259.0	259.3	259.1	259.0	258.9	258.1	256.1	Sbd box	258.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.97733428444E+02		Apriori delay (usec)		5.97718930432E+02		Resid mbdelay (usec)		-1.12699E-03	+/- 2.4E-05
Sband delay (usec)	5.97726167432E+02		Apriori clock (usec)		-1.7494688E+01		Resid sbdelay (usec)		7.23700E-03	+/- 1.9E-04
Phase delay (usec)	5.97718925522E+02		Apriori clockrate (us/s)		-1.2269999E-06		Resid phdelay (usec)		-4.91041E-06	+/- 8.3E-08
Delay rate (us/s)	-1.89014283133E+00		Apriori rate (us/s)		-1.89014294787E+00		Resid rate (us/s)		1.16540E-07	+/- 3.4E-10
Total phase (deg)	88.0		Apriori accel (us/s/s)		-5.16760973910E-06		Resid phase (deg)		-152.3	+/- 2.6

ph/seg (deg) 47.0 6.2 Search (2048X32) 0.742 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 38.5 10.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.3 3.6 Inc. seg. avg. 1.046 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.2 6.4 Inc. frq. avg. 0.960 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 u: az 111.7 el 18.4 pa -49.2 u,v (fr/asec) 10876.102 1494.054 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bu..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bu.W.31.1W6AM6

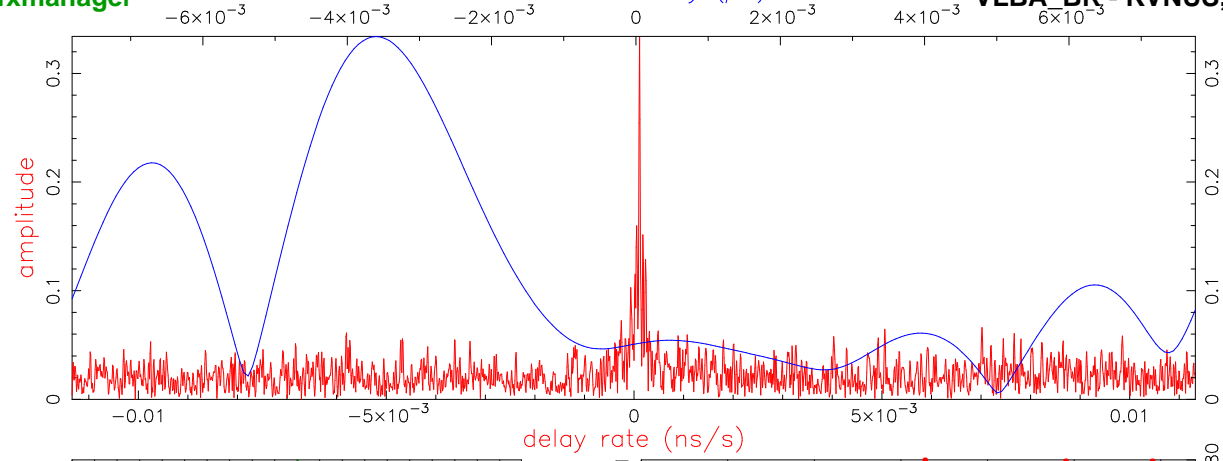
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

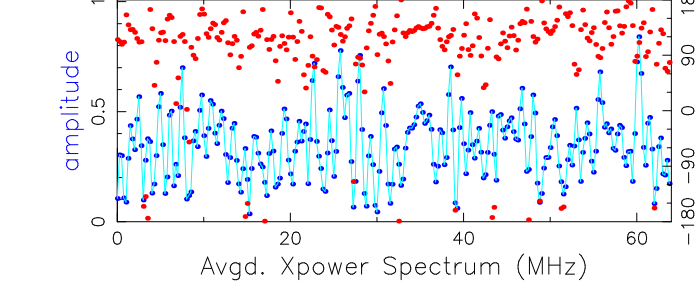
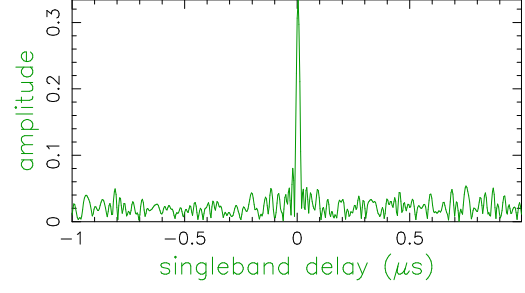
3C279.1W6AM6, No0213, bu

VLBA_BR - KVNUS, fgroup W, pol LR

multiband delay (μ s)

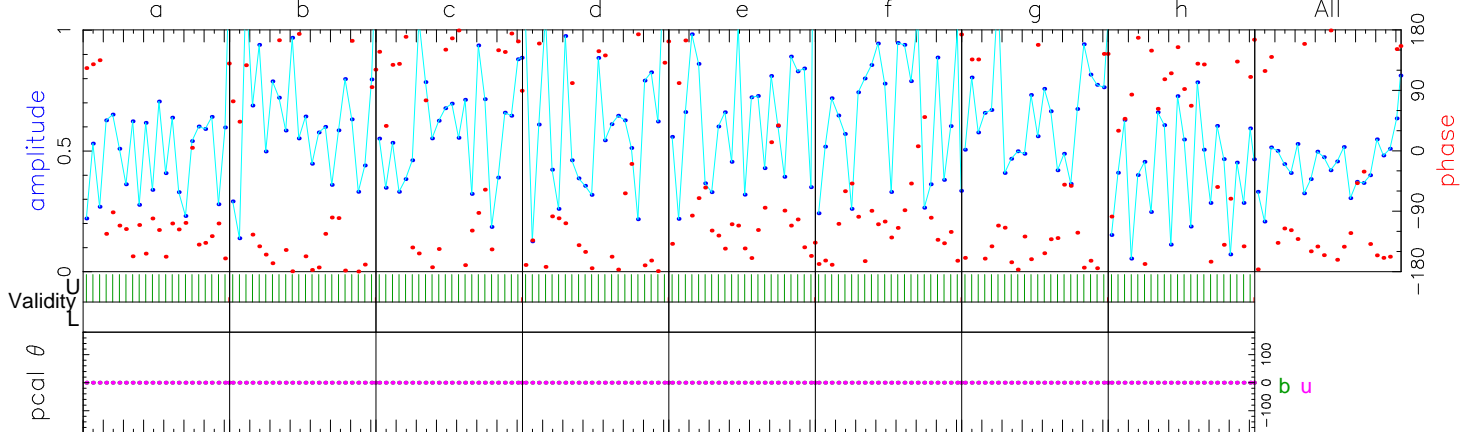


Fringe quality 8
 SNR 18.7
 Int time 419.832
 Amp 0.334
 Phase -153.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.003599
 MBD -0.003613
 Fringe rate (Hz) 0.009961
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012756
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"



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
Group delay (usec)(sbd)	-132.4	-174.1	177.7	-172.2	-115.3	-111.2	-157.9	125.1		-153.9
Sband delay (usec)	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.2		0.4
Phase delay (usec)	256.5	258.3	258.5	257.9	258.2	257.9	257.5	255.0		257.9
Delay rate (us/s)	-1.89014283223E+00									
Total phase (deg)			86.3							
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
u	1000	1000	1000	1000	1000	1000	1000	1000		
b:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)		5.97715316997E+02			5.97718930432E+02					
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:										
Pcal rate:										
Bits/sample:										
Sample rate (MSamp/s):										
Data rate (Mb/s):										
nlags:										
t_cohere										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 47.7 14.7 Search (2048X32) 0.312 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.7 25.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.5 8.7 Inc. seg. avg. 0.427 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.4 15.1 Inc. frq. avg. 0.393 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 233.2 el 21.2 pa 32.5 u: az 111.7 el 18.4 pa -49.2 u,v (fr/asec) 10876.102 1494.054 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bu..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bu.W.52.1W6AM6

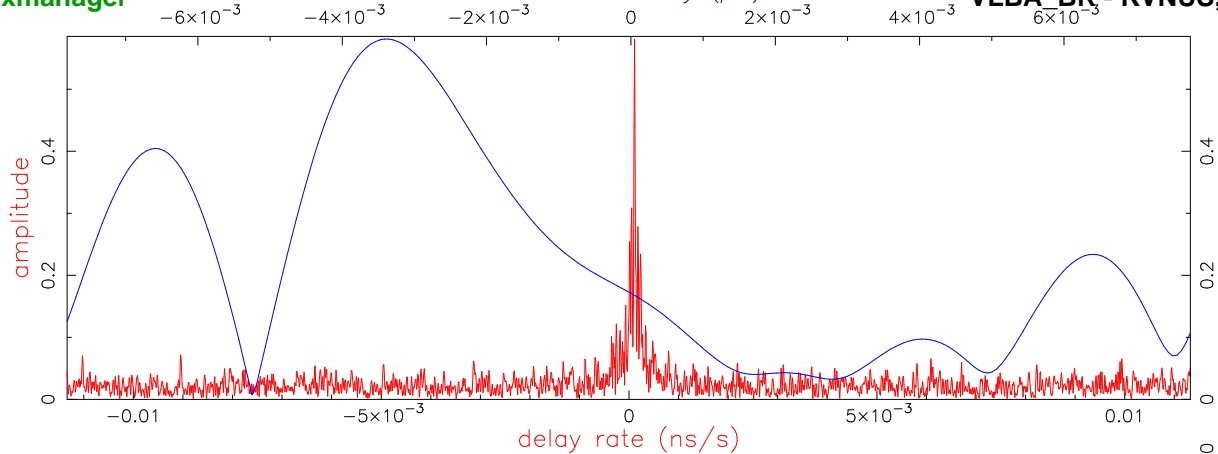
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C279.1W6AM6, No0213, bu

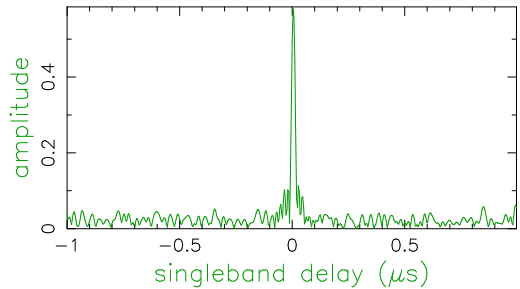
VLBA_BR - KVNUS, fgroup W, pol RL

multiband delay (μ s)

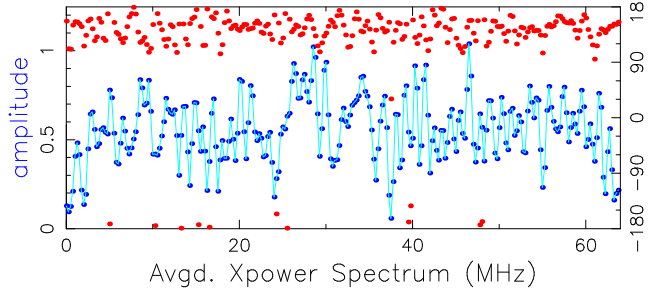


Fringe quality 4

SNR 32.8
 Int time 419.832
 Amp 0.585
 Phase -117.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.005086
 MBD -0.003322
 Fringe rate (Hz)
 0.010017
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

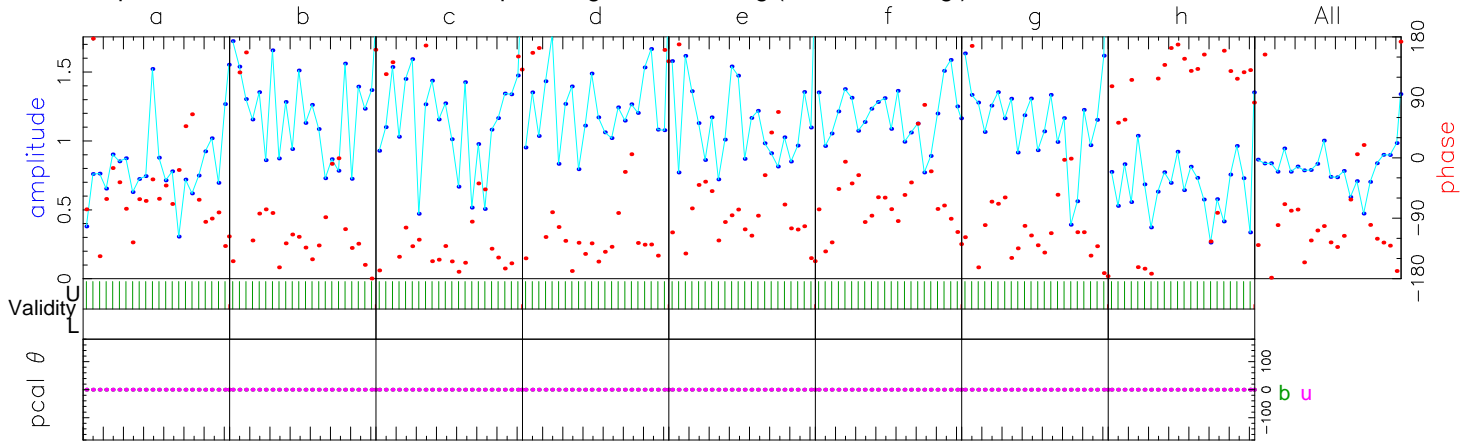


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 100000.00
 Stop 100659.84
 FRT 100330.00
 Corr/FF/build
 2021:286:232445
 2021:287:012800
 2021:252:122852
 RA & Dec (J2000)
 12h56m11.166577s
 -5°47'21.525129"

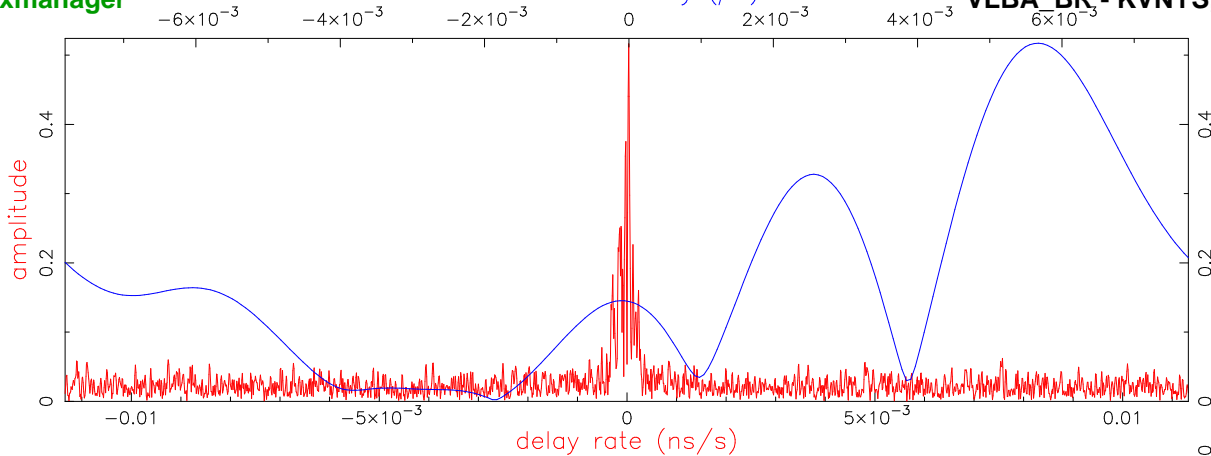
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.7	-130.7	-156.1	-132.2	-91.4	-65.9	-117.3	140.0	Phase	-117.3
	0.5	0.8	0.9	0.9	0.8	0.9	0.8	0.5	Ampl.	0.8
	256.2	258.2	258.7	258.5	258.8	258.3	257.5	255.8	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.97731233351E+02		Apriori delay (usec)		5.97718930432E+02		Resid mbdelay (usec)		-3.32208E-03	+/- 3.3E-05
Sband delay (usec)	5.97724016432E+02		Apriori clock (usec)		-1.7494688E+01		Resid sbdelay (usec)		5.08600E-03	+/- 2.6E-04
Phase delay (usec)	5.97718926649E+02		Apriori clockrate (us/s)		-1.2269999E-06		Resid phdelay (usec)		-3.78340E-06	+/- 1.1E-07
Delay rate (us/s)	-1.89014283158E+00		Apriori rate (us/s)		-1.89014294787E+00		Resid rate (us/s)		1.16288E-07	+/- 4.6E-10
Total phase (deg)	123.0		Apriori accel (us/s/s)		-5.16760973910E-06		Resid phase (deg)		-117.3	+/- 3.5

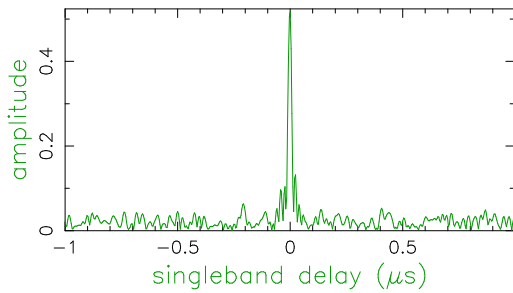
ph/seg (deg) 52.2 8.4 Search (2048X32) 0.542 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.2 14.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.8 4.9 Inc. seg. avg. 0.796 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.6 8.6 Inc. frq. avg. 0.754 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 233.2 el 21.2 pa 32.5 u: az 111.7 el 18.4 pa -49.2 u,v (fr/asec) 10876.102 1494.054 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/bu..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/bu.W.74.1W6AM6

multiband delay (μ s)

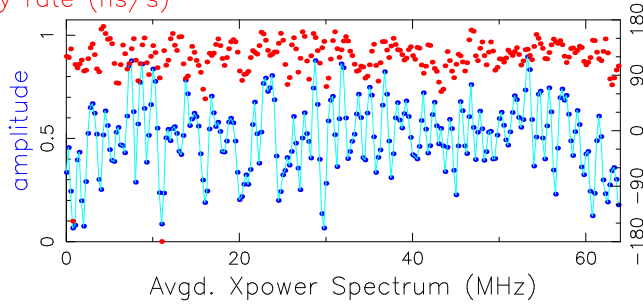


Fringe quality 4

SNR 29.4
Int time 419.832
Amp 0.524
Phase 41.1
PFD 0.0e+00
Delays (us)
SBD -0.001546
MBD 0.005595
Fringe rate (Hz)
0.003212
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

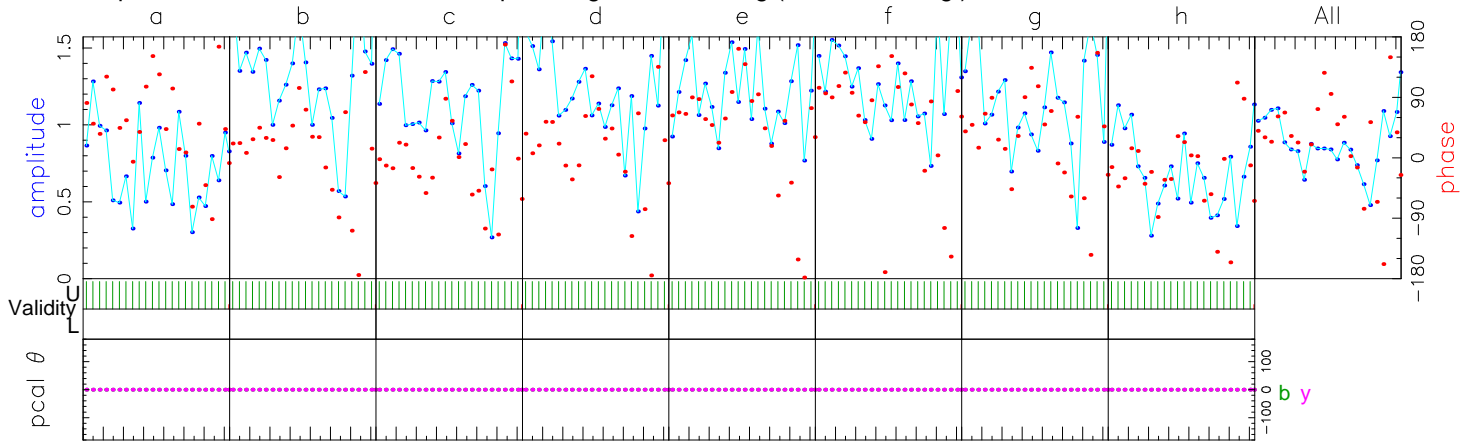


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012750
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

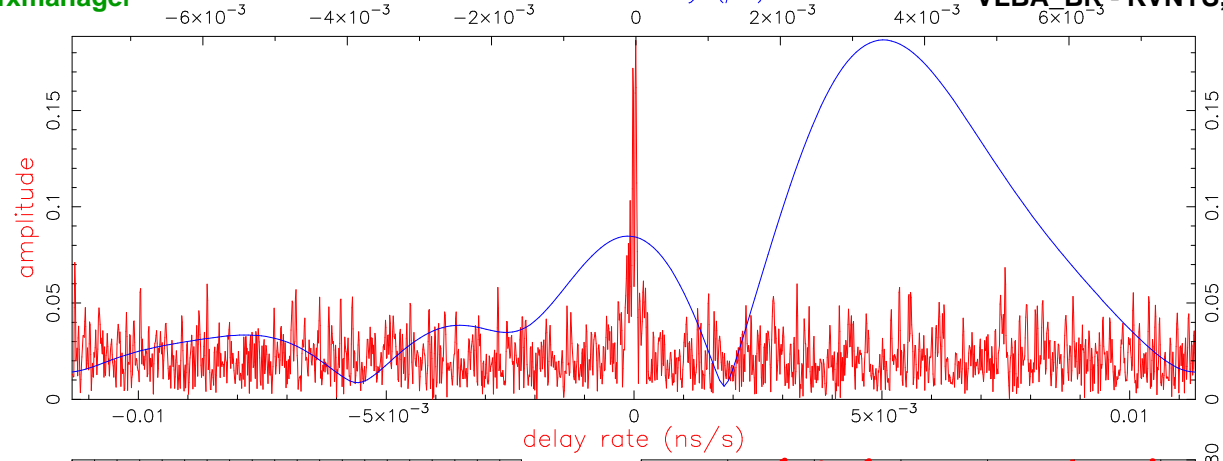
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



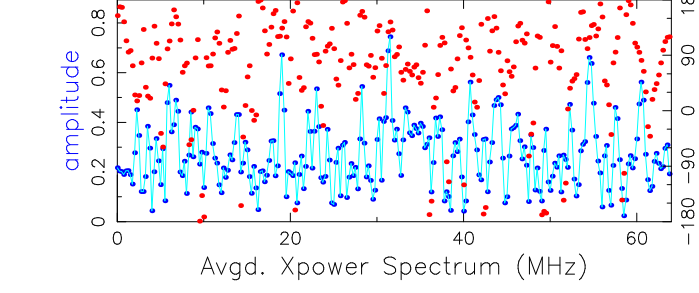
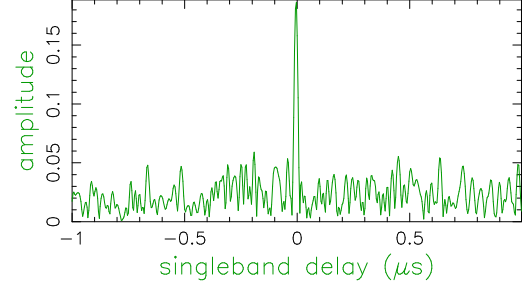
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.48573215445E+03			1.48572655895E+03				5.59550E-03	+/- 3.7E-05
Sband delay (usec)		1.48572501345E+03			-3.6810207E+00				-1.54550E-03	+/- 2.9E-04
Phase delay (usec)		1.48572656028E+03			-9.9999998E-08				1.32642E-06	+/- 1.3E-07
Delay rate (us/s)		-1.88437920406E+00			-1.88437924135E+00				3.72864E-08	+/- 5.2E-10
Total phase (deg)			324.8						41.1	+/- 3.9
pcal mode:					MANUAL, MANUAL					
pcal rate:					0.000E+00, 0.000E+00 (us/s)					
Bits/sample:					2x2					
Sample rate (MSamp/s):					128					
Data rate (Mb/s):					2048					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PC period (AP's)									5, 5	
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 62.3 9.4 Search (2048X32) 0.499 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 73.4 16.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.8 5.5 Inc. seg. avg. 0.860 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 31.8 9.6 Inc. frq. avg. 0.631 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 233.2 el 21.2 pa 32.5 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) 10837.607 1279.676 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/by..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/by.W.26.1W6AM6 simultaneous interpolator

multiband delay (μ s)

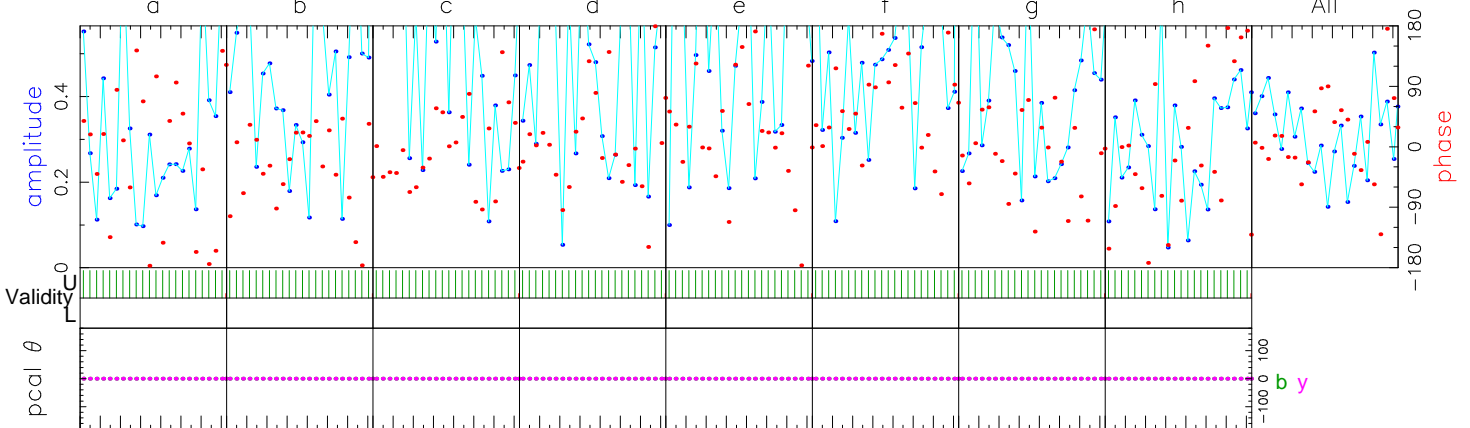


Fringe quality 9
SNR 10.6
Int time 419.832
Amp 0.188
Phase 0.3
PFD 2.0e-17
Delays (us)
SBD -0.005251
MBD 0.003348
Fringe rate (Hz) 0.002808
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012754
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"



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

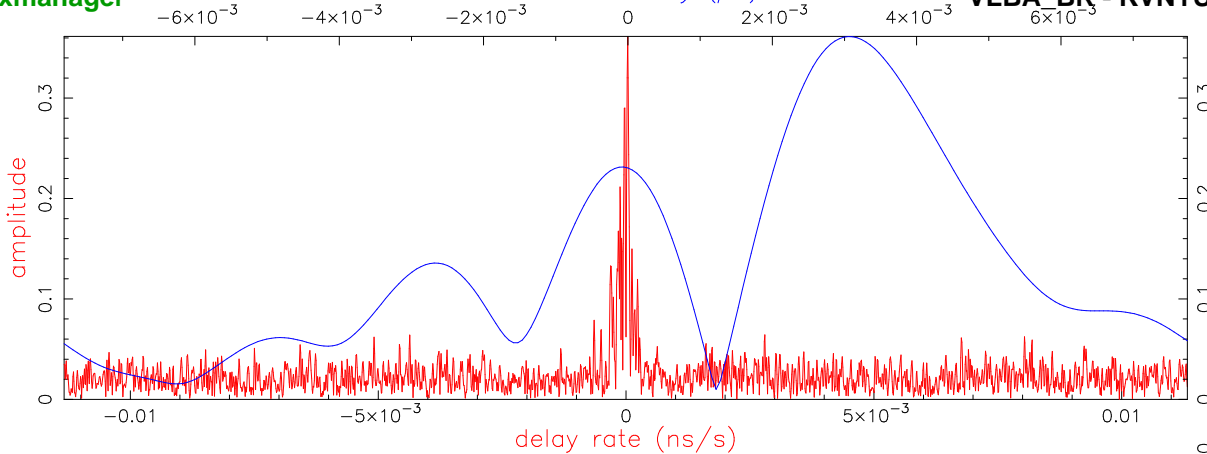


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.48571428232E+03				1.48572655895E+03			Resid mbdelay (usec)	3.34837E-03 +/- 1.0E-04
Sband delay (usec)		1.48572130845E+03				-3.6810207E+00			Resid sbdelay (usec)	-5.25050E-03 +/- 8.2E-04
Phase delay (usec)		1.48572655896E+03				-9.9999998E-08			Resid phdelay (usec)	1.02930E-08 +/- 3.5E-07
Delay rate (us/s)		-1.88437920875E+00				-1.88437924135E+00			Resid rate (us/s)	3.25965E-08 +/- 1.4E-09
Total phase (deg)			284.0						Resid phase (deg)	0.3 +/- 10.9
	RMS	Theor.	Amplitude	0.188 +/- 0.018		Pcal mode: MANUAL, MANUAL			PC period (AP's)	5, 5
ph/seg (deg)	62.6	26.0	Search (2048X32)	0.186		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000
amp/seg (%)	81.2	45.4	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	47.1	15.3	Inc. seg. avg.	0.283		Sample rate(MISamp/s): 128				dr window (ns/s) -0.011 0.011
amp/frq (%)	52.5	26.8	Inc. frq. avg.	0.208		Data rate(Mb/s): 2048				ion window (TEC) 0.00 0.00

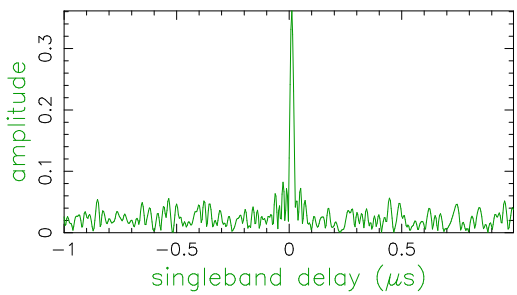
b: az 233.2 el 21.2 pa 32.5 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) 10837.607 1279.676 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/by..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/by.W.46.1W6AM6

multiband delay (μ s)

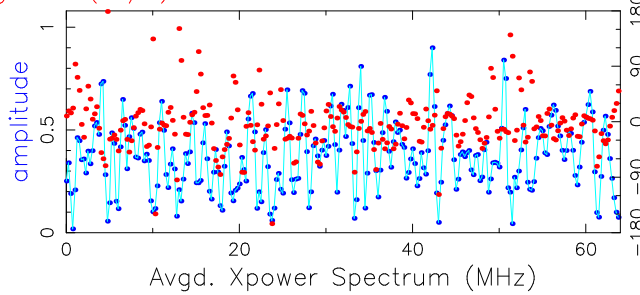
Fringe quality 8



SNR 20.3
Int time 419.832
Amp 0.361
Phase 89.6
PFD 0.0e+00
Delays (us)
SBD 0.011451
MBD 0.003057
Fringe rate (Hz)
0.003123
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

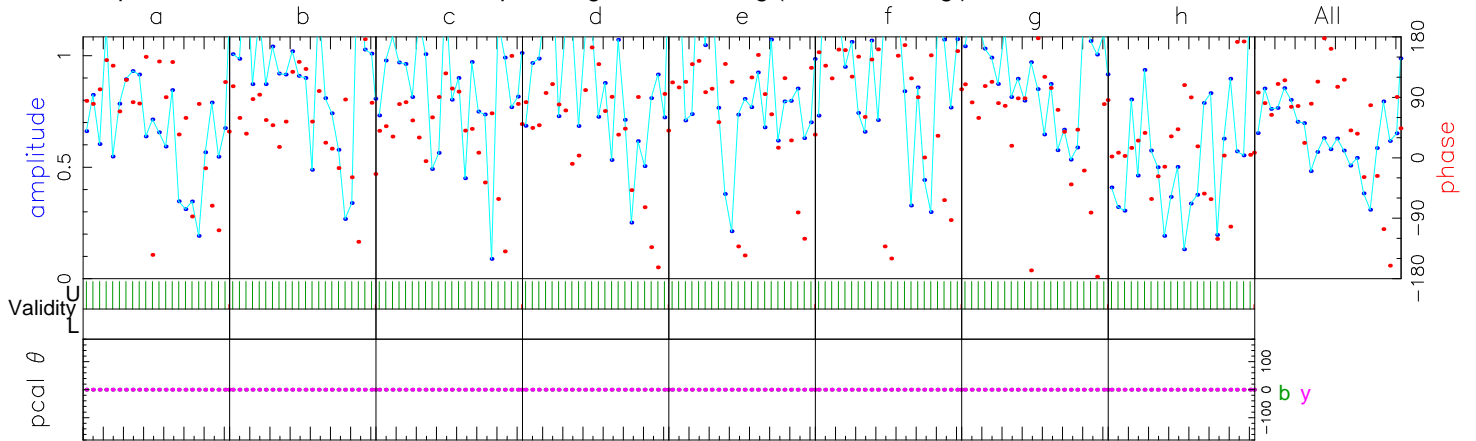


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012758
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	1.48574524123E+03		Apriori delay (usec)		1.48572655895E+03		Resid mbdelay (usec)		3.05728E-03	+/- 5.4E-05
Sband delay (usec)	1.48573801020E+03		Apriori clock (usec)		-3.6810207E+00		Resid sbdelay (usec)		1.14512E-02	+/- 4.3E-04
Phase delay (usec)	1.48572656184E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		2.88938E-06	+/- 1.8E-07
Delay rate (us/s)	-1.88437920510E+00		Apriori rate (us/s)		-1.88437924135E+00		Resid rate (us/s)		3.62555E-08	+/- 7.5E-10
Total phase (deg)	13.2		Apriori accel (us/s/s)		-9.48709870655E-06		Resid phase (deg)		89.6	+/- 5.7

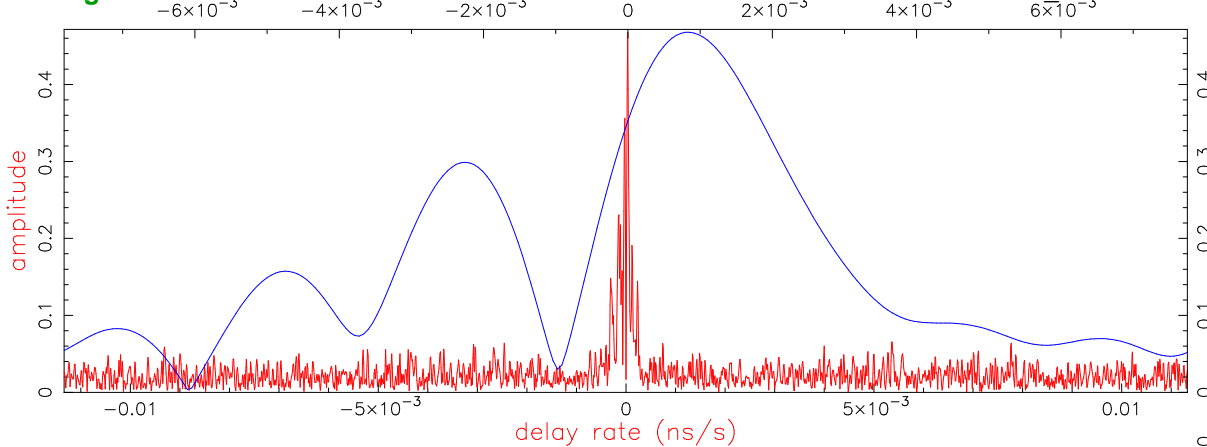
	RMS	Theor.	Amplitude	0.361 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	65.1	13.6	Search (2048X32)	0.356	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	85.5	23.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	50.4	8.0	Inc. seg. avg.	0.619	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	34.2	14.0	Inc. frq. avg.	0.453	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 233.2 el 21.2 pa 32.5 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) 10837.607 1279.676 simultaneous interpolator

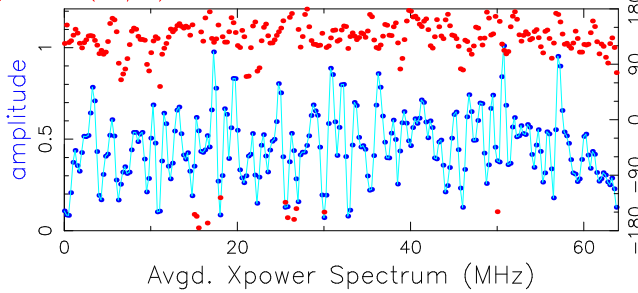
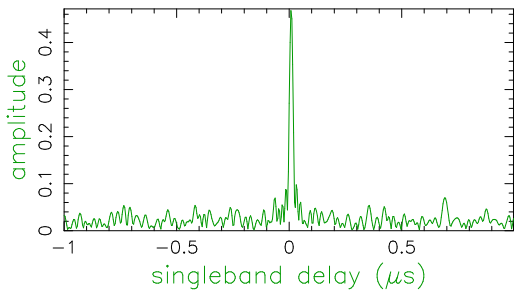
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/by..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/by.W.65.1W6AM6

multiband delay (μ s)

Fringe quality 6

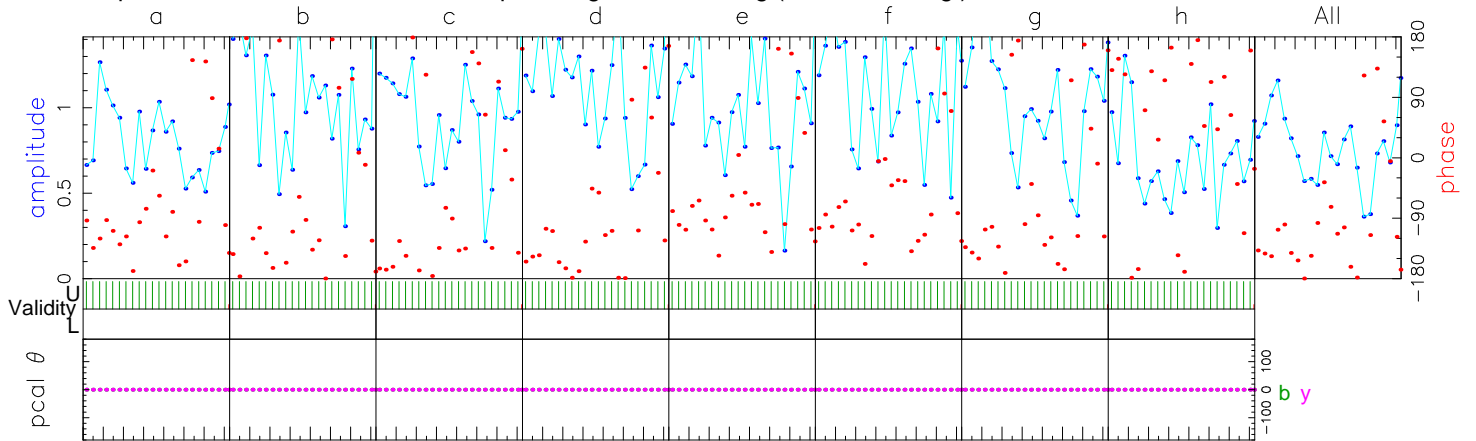


SNR 26.4
Int time 419.832
Amp 0.472
Phase -128.6
PFD 0.0e+00
Delays (us)
SBD 0.008986
MBD 0.000879
Fringe rate (Hz)
0.003100
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 100000.00
Stop 100659.84
FRT 100330.00
Corr/FF/build
2021:286:232445
2021:287:012747
2021:252:122852
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.8	-146.0	-157.4	-139.9	-86.9	-87.0	-130.8	137.6	Phase	-128.6
	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.4	Ampl.	0.6
	257.1	259.1	259.4	259.6	259.6	259.5	258.6	256.3	Sbd box	259.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.48574306317E+03		Apriori delay (usec)		1.48572655895E+03		Resid mbdelay (usec)		8.79216E-04	+/- 4.1E-05
Sband delay (usec)	1.48573554520E+03		Apriori clock (usec)		-3.6810207E+00		Resid sbdelay (usec)		8.98625E-03	+/- 3.3E-04
Phase delay (usec)	1.48572655480E+03		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		-4.14813E-06	+/- 1.4E-07
Delay rate (us/s)	-1.88437920536E+00		Apriori rate (us/s)		-1.88437924135E+00		Resid rate (us/s)		3.59912E-08	+/- 5.8E-10
Total phase (deg)	155.0		Apriori accel (us/s/s)		-9.48709870655E-06		Resid phase (deg)		-128.6	+/- 4.3

ph/seg (deg) 64.2 10.4 Search (2048X32) 0.459 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 73.4 18.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 48.2 6.1 Inc. seg. avg. 0.745 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 28.8 10.7 Inc. frq. avg. 0.572 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 233.2 el 21.2 pa 32.5 y: az 110.7 el 15.9 pa -48.0 u,v (fr/asec) 10837.607 1279.676 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0213/by..1W6AM6 Output file: /Exps/c211a/v2/1234/No0213/by.W.7.1W6AM6