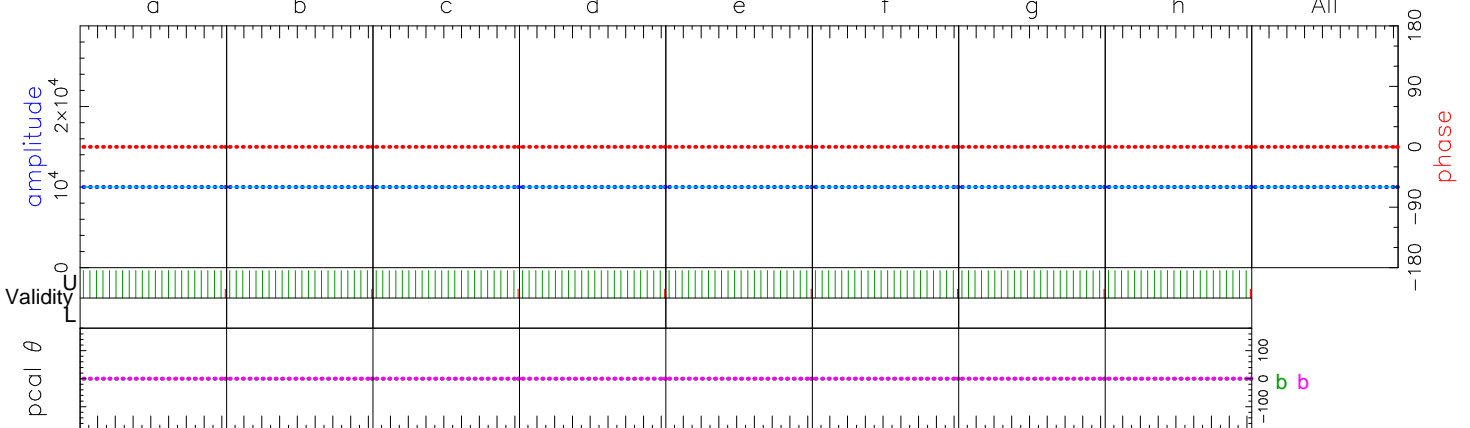


Fringe quality 9
SNR 599113.4
Int time 479.980
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c202b
Yr:day 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132148
2020:247:085004
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.8E-09
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.4E-08
Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 6.2E-12
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.2E-14
Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 9999.999 +/- 0.017 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

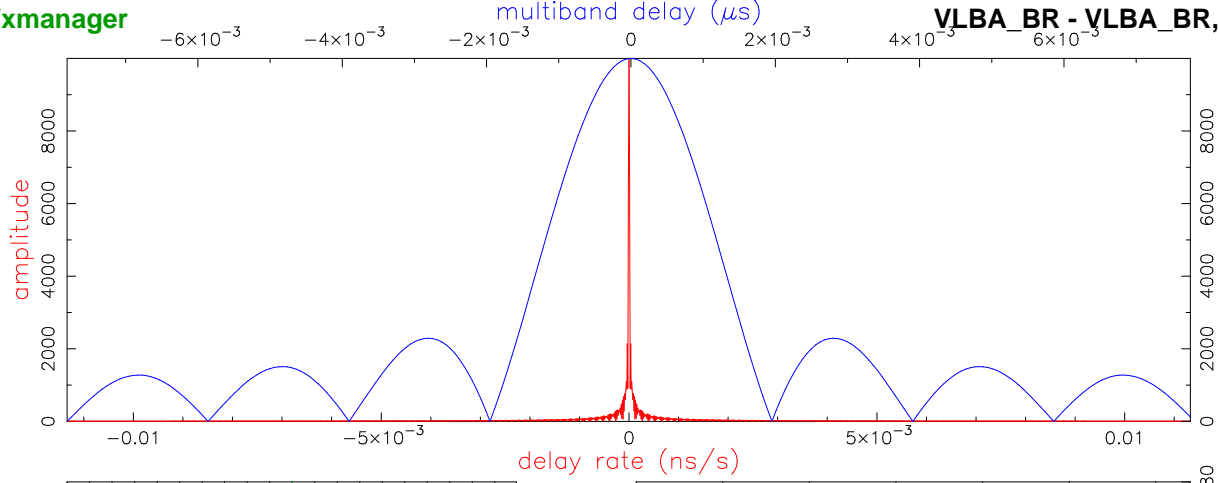
b: az 255.4 el 73.1 pa 59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb.W.13.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bb

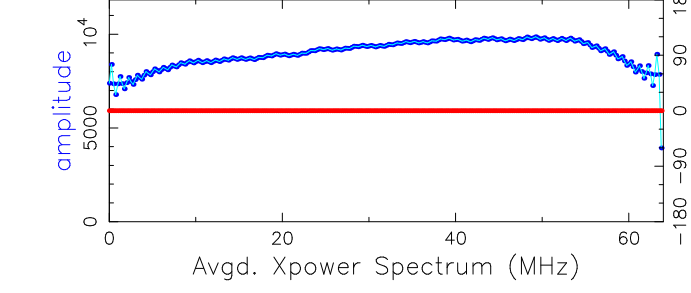
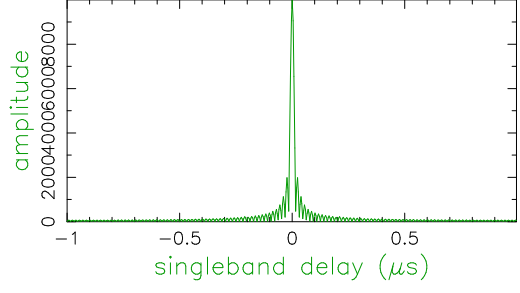
VLBA_BR - VLBA_BR, fgroup W, pol RR



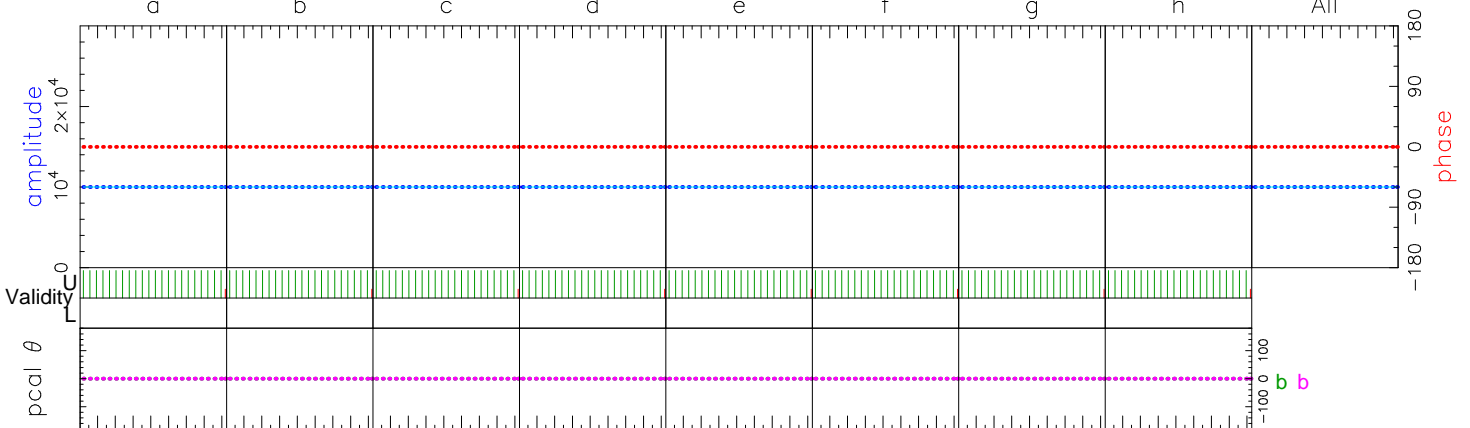
Fringe quality 9

SNR 599113.4
 Int time 479.980
 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. c202b
 Yr:day 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132152
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	10000.0	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 1.8E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 1.4E-08
Phase delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 6.2E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000E+00	+/- 2.2E-14
Total phase (deg)			0.0						0.0	+/- 0.0

RMS Theor. Amplitude 9999.999 +/- 0.017 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 255.4 el 73.1 pa 59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb.W.31.11M07A

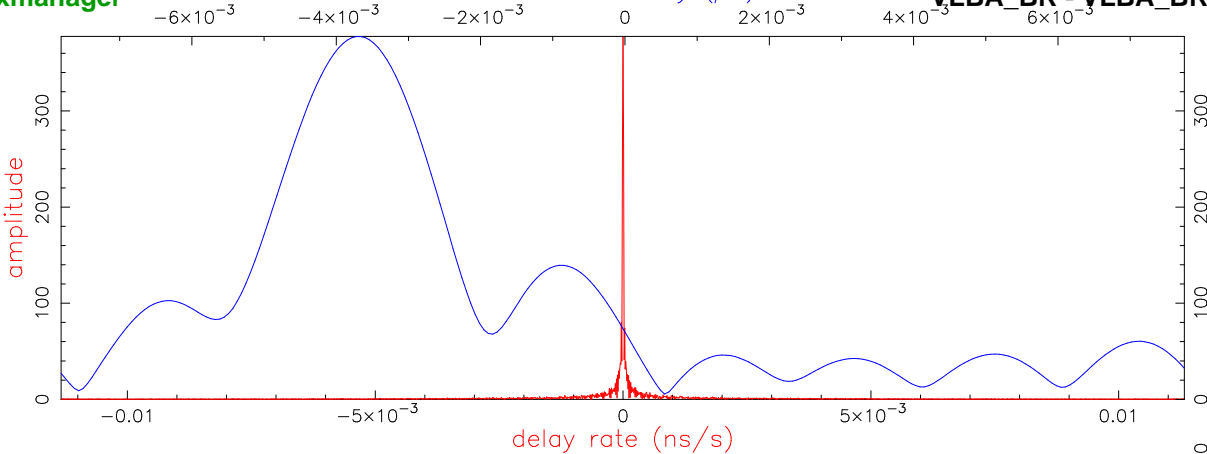
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bb

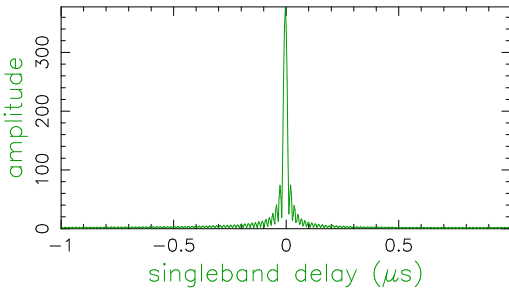
VLBA_BR - VLBA_BR, fgroup W, pol LR

multiband delay (μ s)

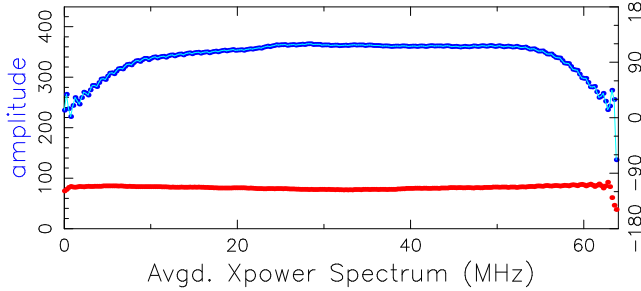


Fringe quality 8

SNR 22621.6
 Int time 479.980
 Amp 377.585
 Phase -115.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.003836
 MBD -0.003689
 Fringe rate (Hz)
 0.000027
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

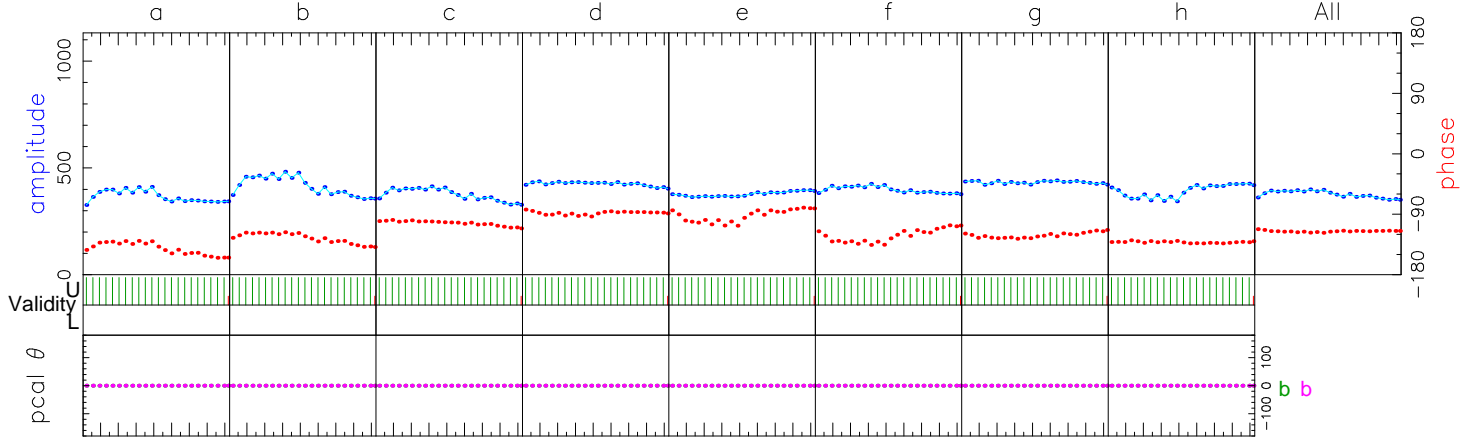


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132156
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec

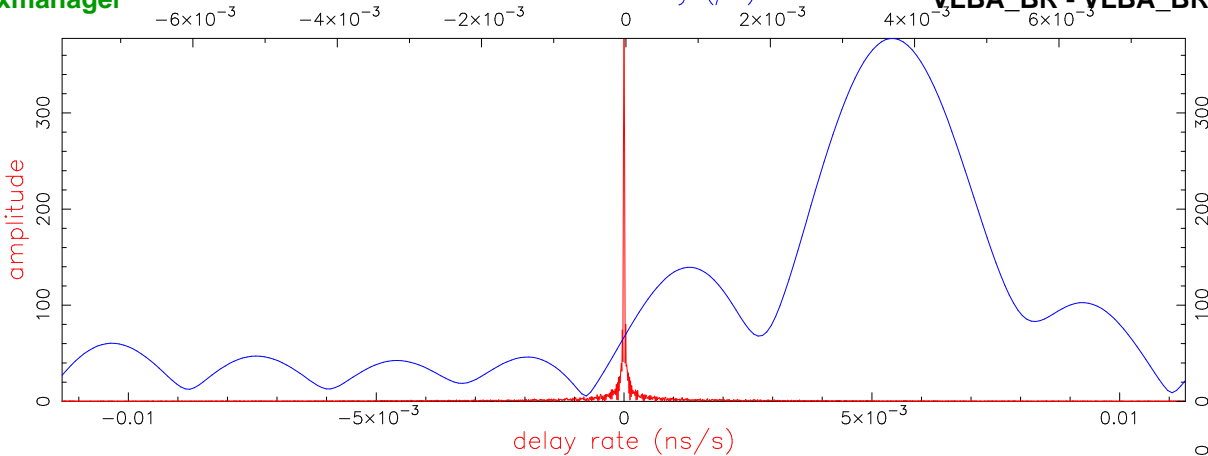


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-140.4	-124.5	-102.8	-88.1	-92.1	-122.4	-121.3	-131.6	Phase	-115.3
	363.5	413.0	375.6	425.7	372.8	393.0	431.9	391.6	Ampl.	395.9
	256.2	256.0	256.3	256.2	255.8	256.0	256.2	255.3	Sbd box	256.0
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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)	-3.68859375000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-3.68859E-03	+/- 4.8E-08
Sband delay (usec)	-3.83600000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-3.83600E-03	+/- 3.8E-07
Phase delay (usec)	-3.71902462588E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.71902E-06	+/- 1.6E-10
Delay rate (us/s)	3.15308140715E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.15308E-10	+/- 5.9E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-115.3	+/- 0.0

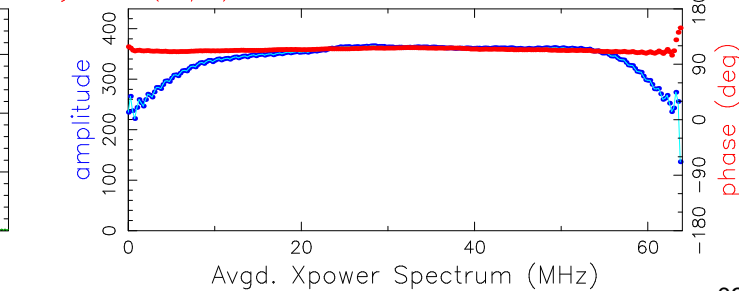
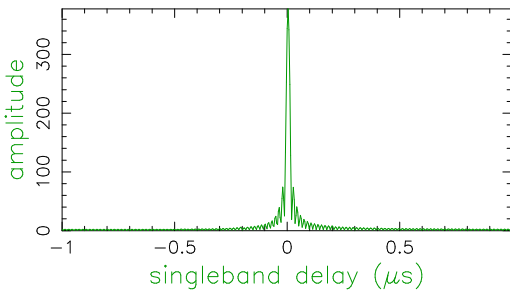
RMS Theor. Amplitude 377.585 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 1.2 0.0 Search (2048X32) 370.061 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 4.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 20.4 0.0 Inc. seg. avg. 377.651 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 7.9 0.0 Inc. frq. avg. 395.904 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 255.4 el 73.1 pa 59.5 b: az 255.4 el 73.1 pa 59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb_.11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb.W.52.11M07A

multiband delay (μs)

Fringe quality 8

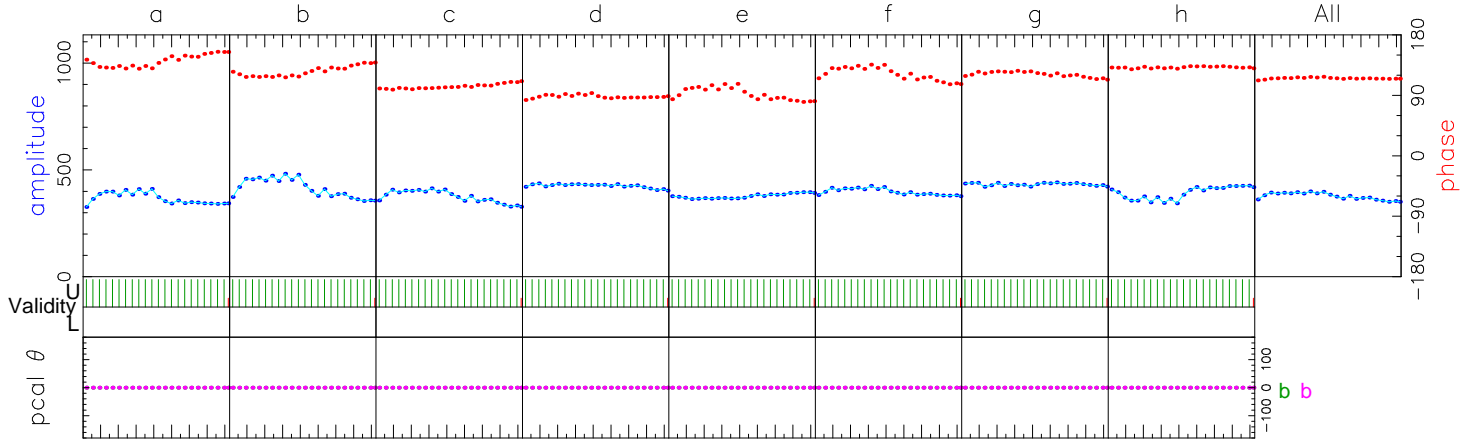


SNR 22621.6
 Int time 479.980
 Amp 377.585
 Phase 115.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.003836
 MBD 0.003689
 Fringe rate (Hz)
 -0.000027
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132200
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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	Manl 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)	3.68859375000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	3.68859E-03	+/-	4.8E-08
Sband delay (usec)	3.83600000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.83600E-03	+/-	3.8E-07
Phase delay (usec)	3.71902462582E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.71902E-06	+/-	1.6E-10
Delay rate (us/s)	-3.15308140715E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.15308E-10	+/-	5.9E-13
Total phase (deg)	115.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	115.3	+/-	0.0

ph/seg (deg)	1.2	RMS	Theor.	Amplitude	377.585 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	4.1	0.0	0.0	Search (2048X32)	370.061	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	20.4	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	7.9	0.0	0.0	Inc. seg. avg.	377.651	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	395.904	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

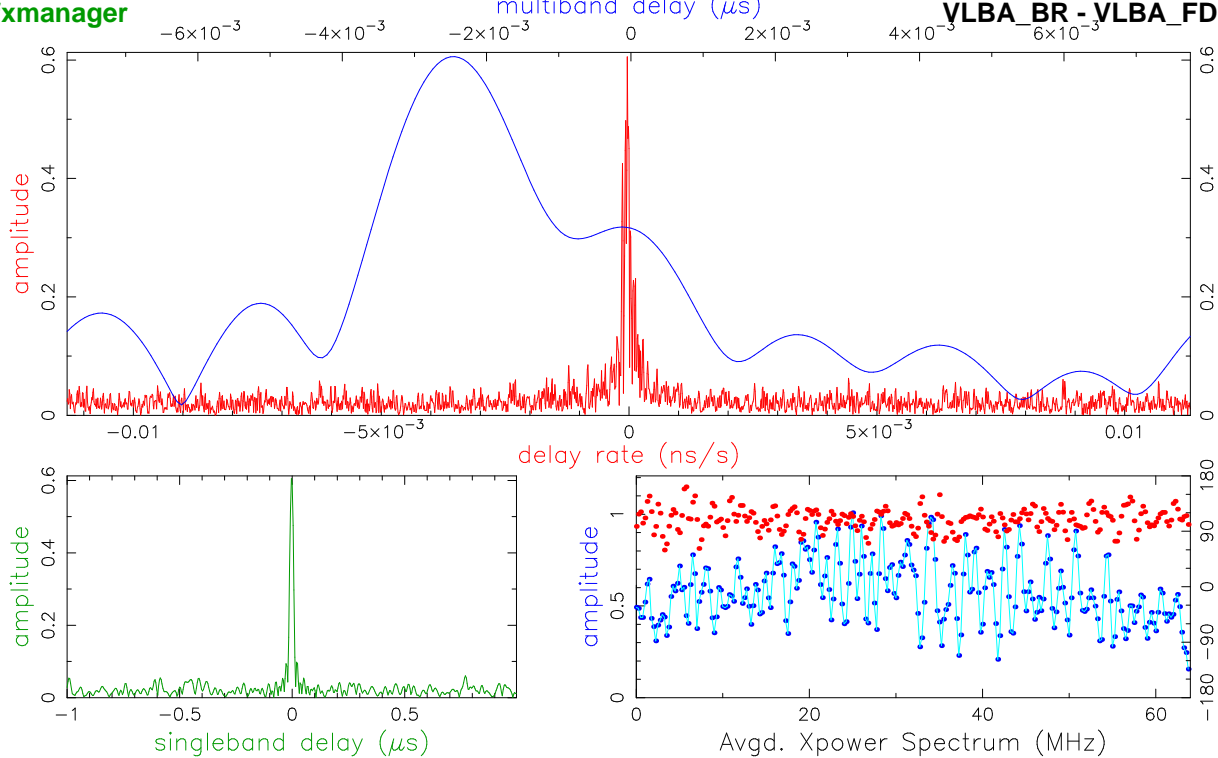
b: az 255.4 el 73.1 pa 59.5 b: az 255.4 el 73.1 pa 59.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb_.11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bb.W.73.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bf

VLBA_BR - VLBA_FD, fgroup W, pol LL

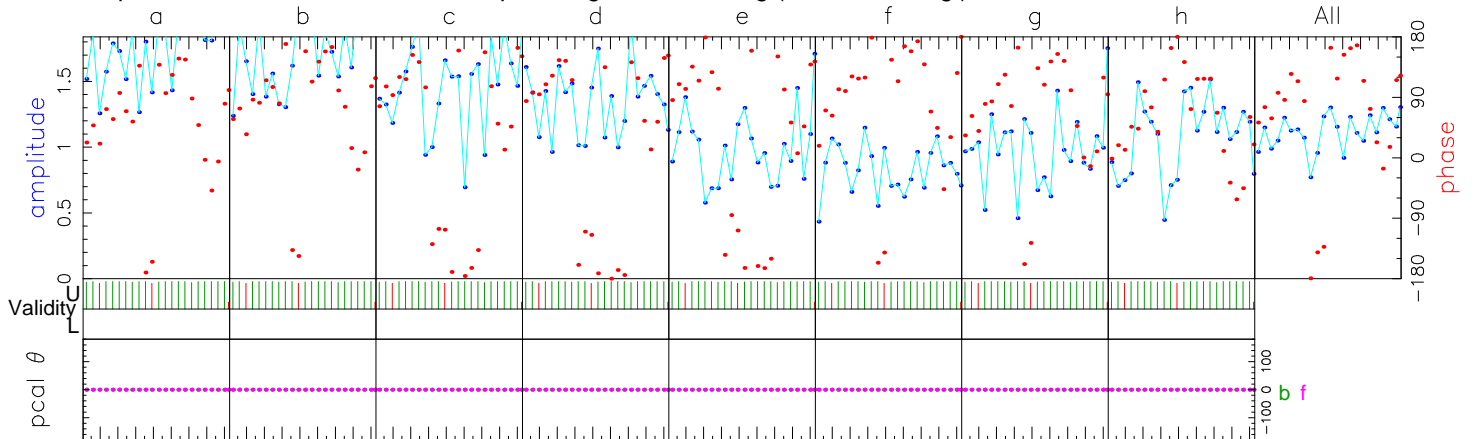


Fringe quality 4

SNR 36.5
 Int time 473.322
 Amp 0.613
 Phase 108.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.002462
 MBD -0.002424
 Fringe rate (Hz)
 -0.002726
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113002.54
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132148
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	79.8	102.2	140.4	134.3	140.8	115.4	95.3	63.8	Phase	108.0
	1.0	0.9	0.7	0.8	0.5	0.5	0.5	0.6	Ampl.	0.7
	256.3	256.9	256.7	256.2	256.2	256.1	256.1	255.1	Sbd box	256.4
U/L	931/0	931/0	931/0	931/0	931/0	931/0	931/0	931/0	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	Manl 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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.40730952608E+03		Apriori delay (usec)		2.40731194990E+03		Resid mbdelay (usec)		-2.42382E-03	+/- 3.0E-05
Sband delay (usec)	2.40730948765E+03		Apriori clock (usec)		-9.5818558E+00		Resid sbdelay (usec)		-2.46225E-03	+/- 2.4E-04
Phase delay (usec)	2.40731195338E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		3.48271E-06	+/- 1.0E-07
Delay rate (us/s)	3.22371943526E-01		Apriori rate (us/s)		3.22371975169E-01		Resid rate (us/s)		-3.16428E-08	+/- 3.7E-10
Total phase (deg)	239.2		Apriori accel (us/s/s)		4.74664308778E-06		Resid phase (deg)		108.0	+/- 3.1

ph/seg (deg) 61.4 7.5 Search (2048X32) 0.601 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.4 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) 31.1 4.4 Inc. seg. avg. 1.104 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.0 7.8 Inc. frq. avg. 0.674 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 255.4 el 73.1 pa 59.5 f: az 300.5 el 57.9 pa 96.9 u,v (fr/asec) -2463.062 1911.755 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf.W.16.11M07A

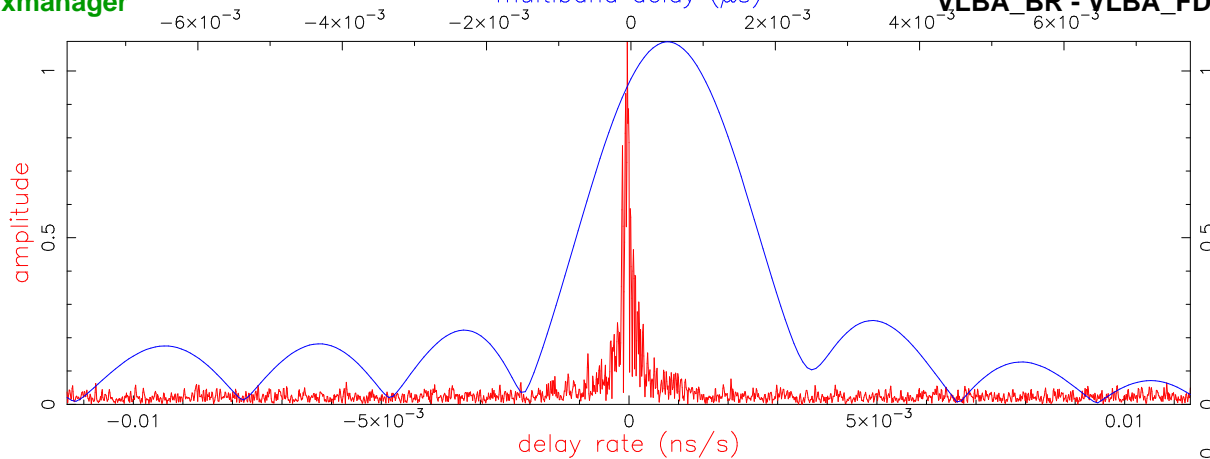
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bf

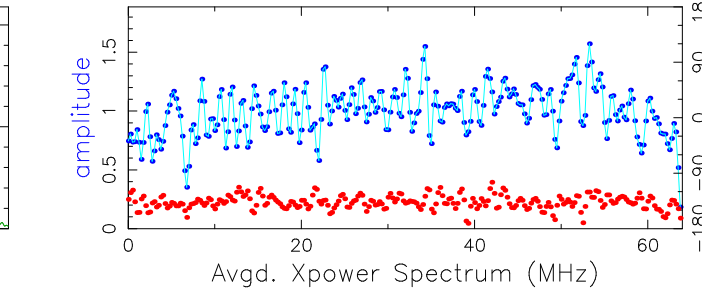
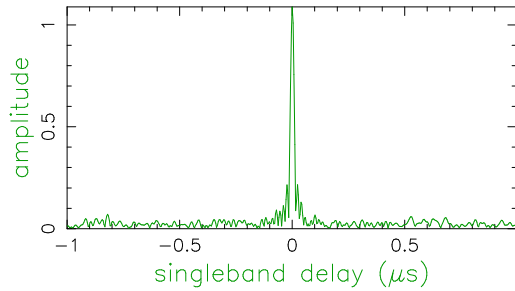
VLBA_BR - VLBA_FD, fgroup W, pol RR

multiband delay (μ s)



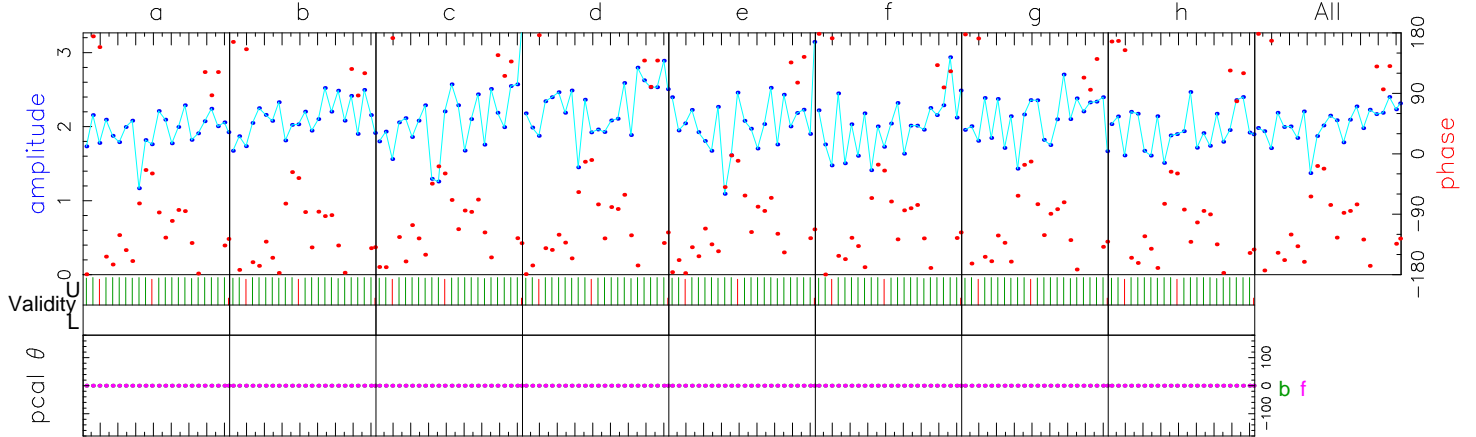
Fringe quality 5

SNR 64.8
 Int time 473.322
 Amp 1.089
 Phase -137.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000436
 MBD 0.000519
 Fringe rate (Hz)
 -0.002737
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113002.54
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132153
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
Validity	1.0	1.1	1.2	1.2	1.1	1.0	1.1	1.0	Phase	-137.3
U/L	256.7	257.3	257.4	256.9	257.3	257.0	256.8	257.0	Ampl.	1.1
b	931/0	931/0	931/0	931/0	931/0	931/0	931/0	931/0	Sbd box	257.1
f	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.40731246855E+03	Apriori delay (usec)	2.40731194990E+03	Resid mbdelay (usec)	5.18651E-04	+/-	1.7E-05
Sband delay (usec)	2.40731238590E+03	Apriori clock (usec)	-9.5818558E+00	Resid sbdelay (usec)	4.36000E-04	+/-	1.3E-04
Phase delay (usec)	2.40731194547E+03	Apriori clockrate (us/s)	-3.9999997E-07	Resid phdelay (usec)	-4.42890E-06	+/-	5.7E-08
Delay rate (us/s)	3.22371943398E-01	Apriori rate (us/s)	3.22371975169E-01	Resid rate (us/s)	-3.17710E-08	+/-	2.1E-10
Total phase (deg)	-6.2	Apriori accel (us/s/s)	4.74664308778E-06	Resid phase (deg)	-137.3	+/-	1.8

ph/seg (deg)	62.7	RMS	4.2	Theor.	4.2	Amplitude	1.089 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	89.3	Search (2048X32)	1.079	Inc. seg. avg.	2.031	Inc. frq. avg.	1.094	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	7.7	Interp.	0.000	Inc. seg. avg.	2.031	Inc. frq. avg.	1.094	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	6.8	Inc. seg. avg.	2.031	Inc. frq. avg.	1.094	Inc. frq. avg.	1.094	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	1.094	Inc. frq. avg.	1.094	Inc. frq. avg.	1.094	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 255.4 el 73.1 pa 59.5 f: az 300.5 el 57.9 pa 96.9 u,v (fr/asec) -2463.062 1911.755 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf.W.38.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

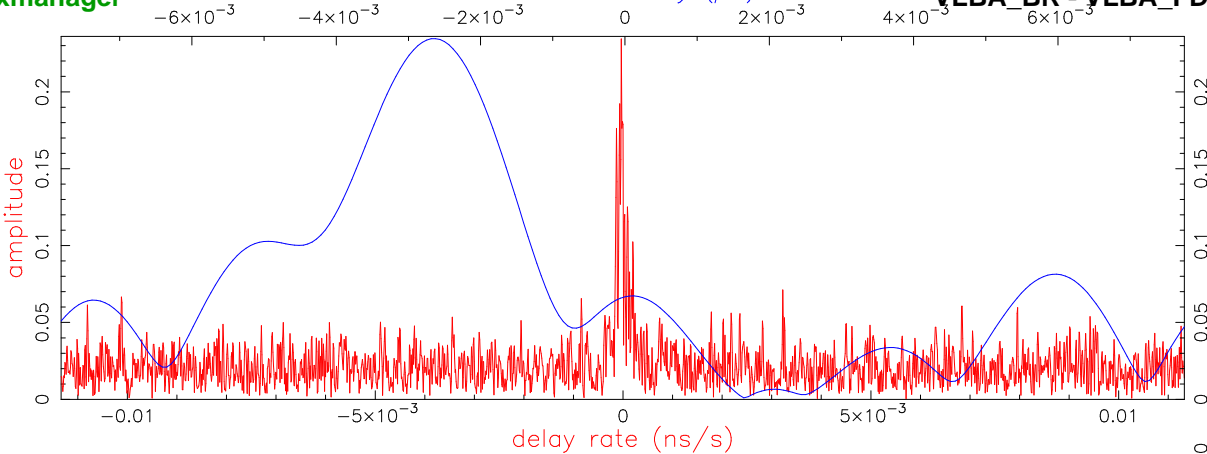
fxmanager

3C84.1M07A, No0101, bf

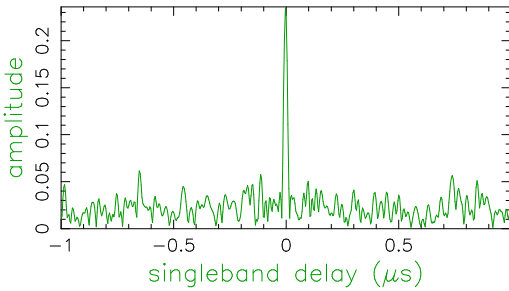
VLBA_BR - VLBA_FD, fgroup W, pol LR

multiband delay (μ s)

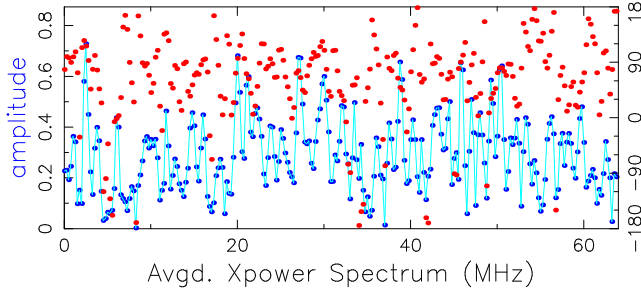
Fringe quality 9



SNR 14.0
 Int time 473.322
 Amp 0.236
 Phase 74.4
 PFD 5.0e-36
 Delays (us)
 SBD -0.002833
 MBD -0.002600
 Fringe rate (Hz)
 -0.002957
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

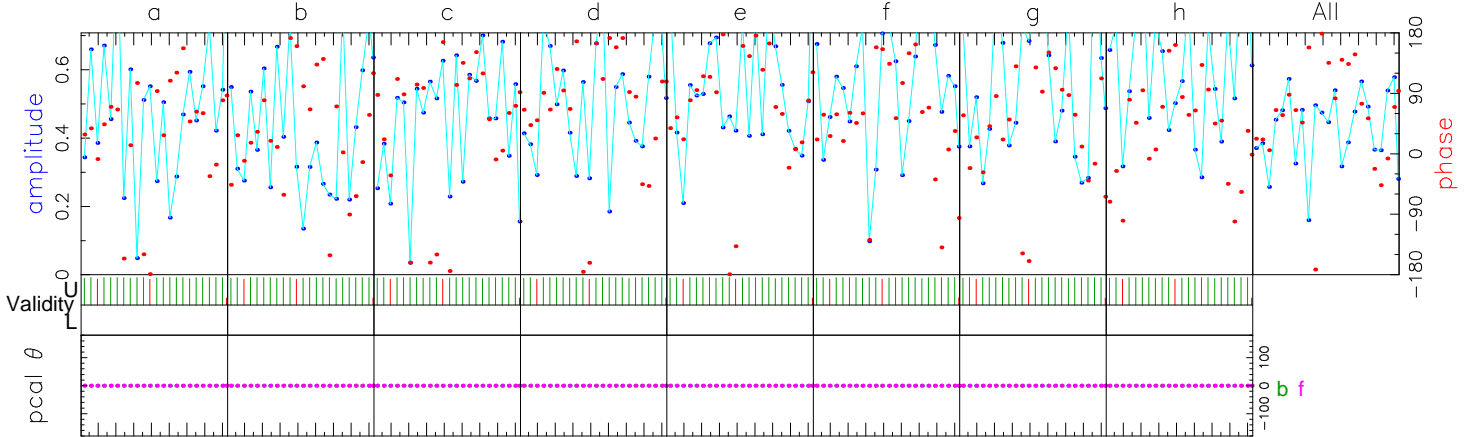


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113002.54
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132157
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	931/0	931/0	931/0	931/0	931/0	931/0	931/0	931/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.40730935039E+03		Apriori delay (usec)		2.40731194990E+03		Resid mbdelay (usec)		-2.59951E-03	+/- 7.7E-05
Sband delay (usec)	2.40730911715E+03		Apriori clock (usec)		-9.5818558E+00		Resid sbdelay (usec)		-2.83275E-03	+/- 6.1E-04
Phase delay (usec)	2.40731195230E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		2.39859E-06	+/- 2.6E-07
Delay rate (us/s)	3.22371940838E-01		Apriori rate (us/s)		3.22371975169E-01		Resid rate (us/s)		-3.43310E-08	+/- 9.6E-10
Total phase (deg)			205.6		4.74664308778E-06		Resid phase (deg)		74.4	+/- 8.2
ph/seg (deg)	RMS 63.8	Theor. 19.5	Amplitude 0.236 +/- 0.017		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	94.3	34.1	Search (2048X32) 0.230		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
ph/frq (deg)	33.5	11.5	Interp. 0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	
amp/frq (%)	20.9	20.1	Inc. seg. avg. 0.408		Sample rate(MISamp/s): 128		dr window (ns/s)		-0.011	
			Inc. frq. avg. 0.259		Data rate(Mb/s): 2048		nlags: 256		t_cohere infinite	
b: az 255.4 el 73.1 pa 59.5	f: az 300.5 el 57.9 pa 96.9		u,v (fr/asec) -2463.062 1911.755				ion window (TEC)		0.00 0.00	
simultaneous interpolator										

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf.W.56.11M07A

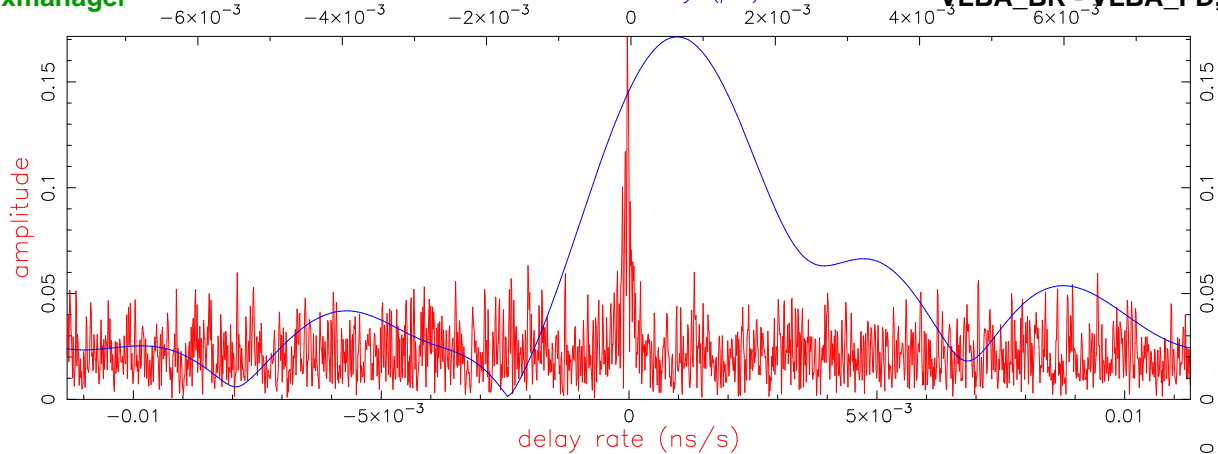
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bf

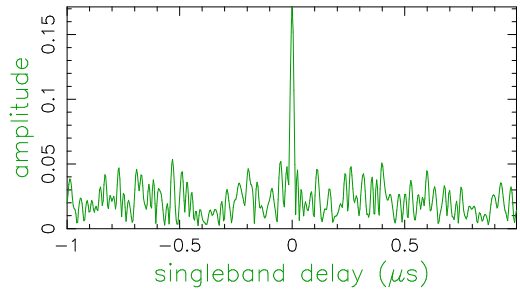
VLBA_BR - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)

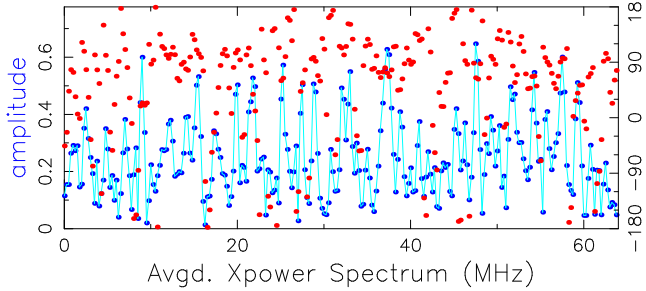


Fringe quality 9

SNR 10.2
 Int time 473.322
 Amp 0.171
 Phase 74.1
 PFD 8.4e-16
 Delays (us)
 SBD -0.000423
 MBD 0.000638
 Fringe rate (Hz)
 -0.002474
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

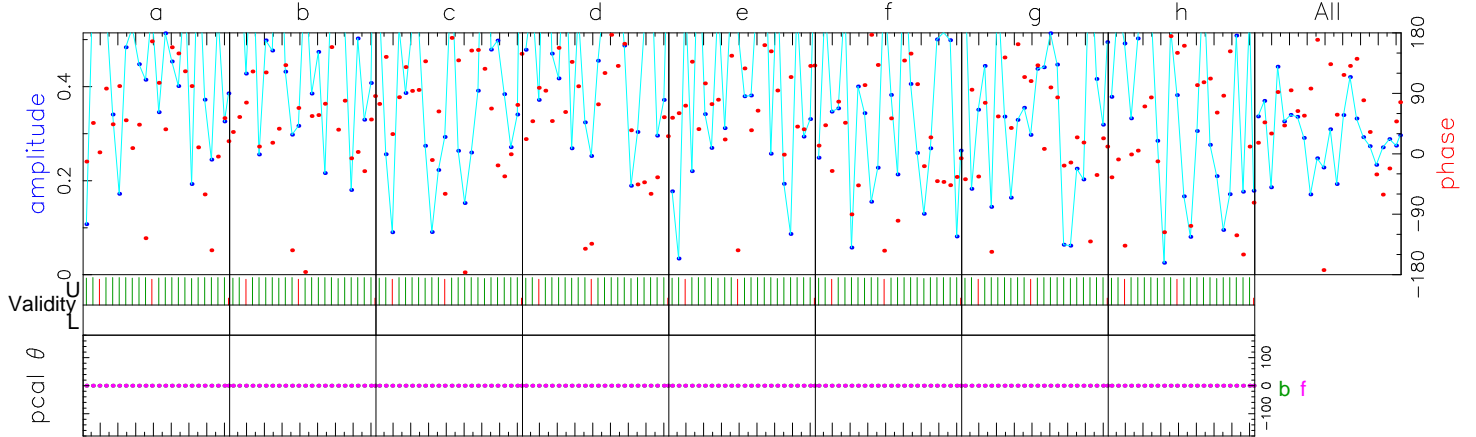


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113002.54
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132200
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	931/0	931/0	931/0	931/0	931/0	931/0	931/0	931/0		
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		Chan ids
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
Group delay (usec)(sbd)	2.40731258743E+03		Apriori delay (usec)		2.40731194990E+03		Resid mbdelay (usec)		6.37526E-04	+/- 1.1E-04
Sband delay (usec)	2.40731152690E+03		Apriori clock (usec)		-9.5818558E+00		Resid sbdelay (usec)		-4.23000E-04	+/- 8.4E-04
Phase delay (usec)	2.40731195229E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		2.38826E-06	+/- 3.6E-07
Delay rate (us/s)	3.22371946445E-01		Apriori rate (us/s)		3.22371975169E-01		Resid rate (us/s)		-2.87235E-08	+/- 1.3E-09
Total phase (deg)	205.2		Apriori accel (us/s/s)		4.74664308778E-06		Resid phase (deg)		74.1	+/- 11.2

	RMS	Theor.	Amplitude	0.171 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	61.6	26.9	Search (2048X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	82.7	46.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	26.1	15.9	Inc. seg. avg.	0.267	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	43.6	27.7	Inc. frq. avg.	0.175	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite

b: az 255.4 el 73.1 pa 59.5 f: az 300.5 el 57.9 pa 96.9 u,v (fr/asec) -2463.062 1911.755 simultaneous interpolator

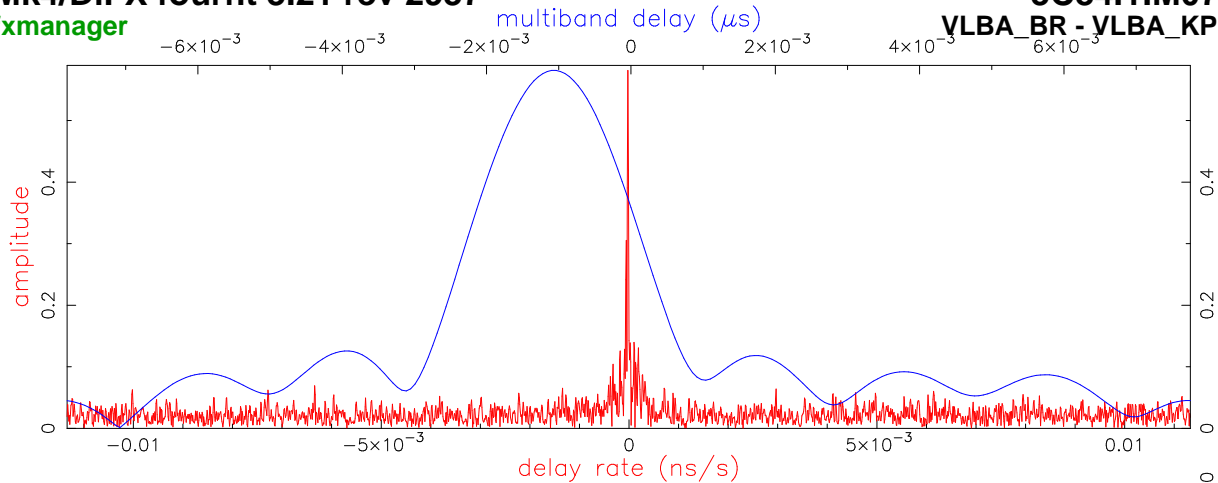
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bf.W.74.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

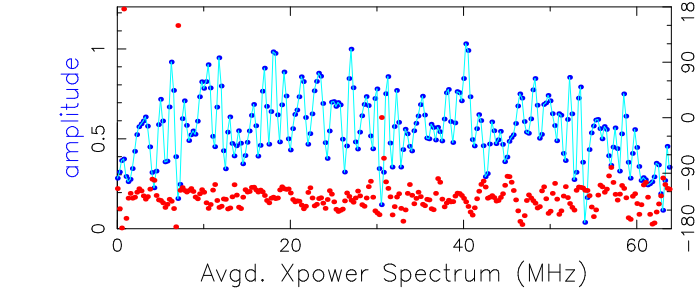
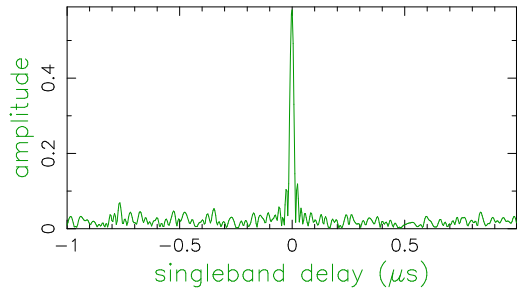
3C84.11M07A, No0101, bk

VLBA_BR - VLBA_KP, fgroup W, pol LL



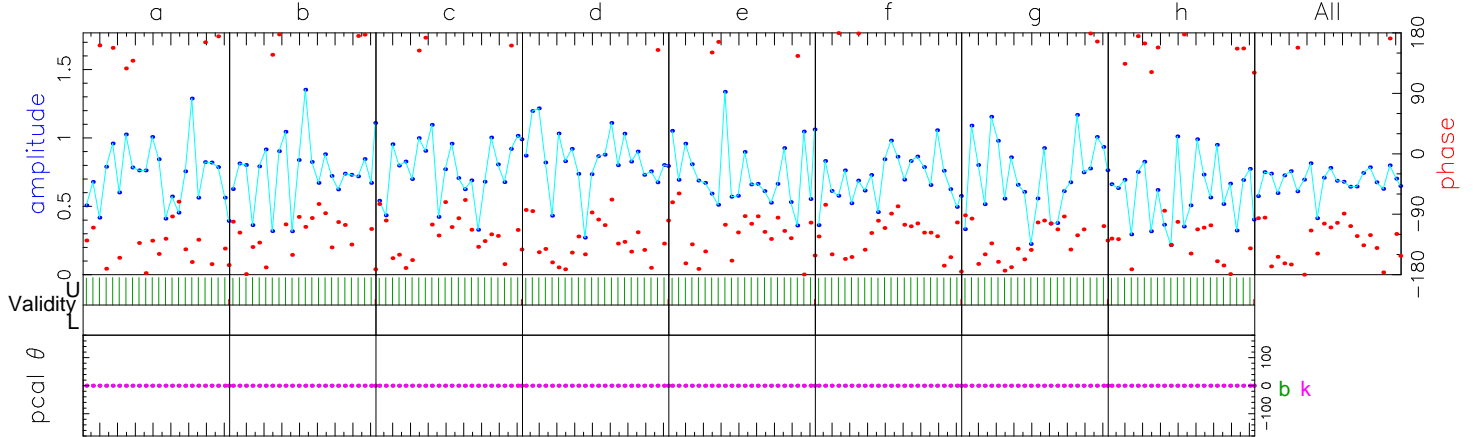
Fringe quality 7

SNR 35.1
 Int time 474.906
 Amp 0.590
 Phase -135.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.001546
 MBD -0.001099
 Fringe rate (Hz)
 -0.001480
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132146
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0		
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		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.24897868340E+03	Apriori delay (usec)	1.24897978237E+03	Resid mbdelay (usec)	-1.09897E-03	+/-	3.1E-05
Sband delay (usec)	1.24897823612E+03	Apriori clock (usec)	-2.0479631E+00	Resid sbdelay (usec)	-1.54625E-03	+/-	2.5E-04
Phase delay (usec)	1.24897977800E+03	Apriori clockrate (us/s)	-9.9999991E-08	Resid phdelay (usec)	-4.36980E-06	+/-	1.1E-07
Delay rate (us/s)	2.05688441440E-01	Apriori rate (us/s)	2.05688458624E-01	Resid rate (us/s)	-1.71832E-08	+/-	3.8E-10
Total phase (deg)	27.8	Apriori accel (us/s/s)	9.47022138302E-06	Resid phase (deg)	-135.5	+/-	3.3

ph/seg (deg)	32.9	RMS	7.8	Theor.	7.8	Amplitude	0.590 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	22.6	Search (2048X32)	0.538	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	15.1	Inc. seg. avg.	0.683	Inc. frq. avg.	0.594	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	10.8	Inc. frq. avg.	0.594	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 255.4 el 73.1 pa 59.5 k: az 300.5 el 64.2 pa 101.1 u,v (fr/asec) -1561.559 2101.757 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk.W.2.11M07A

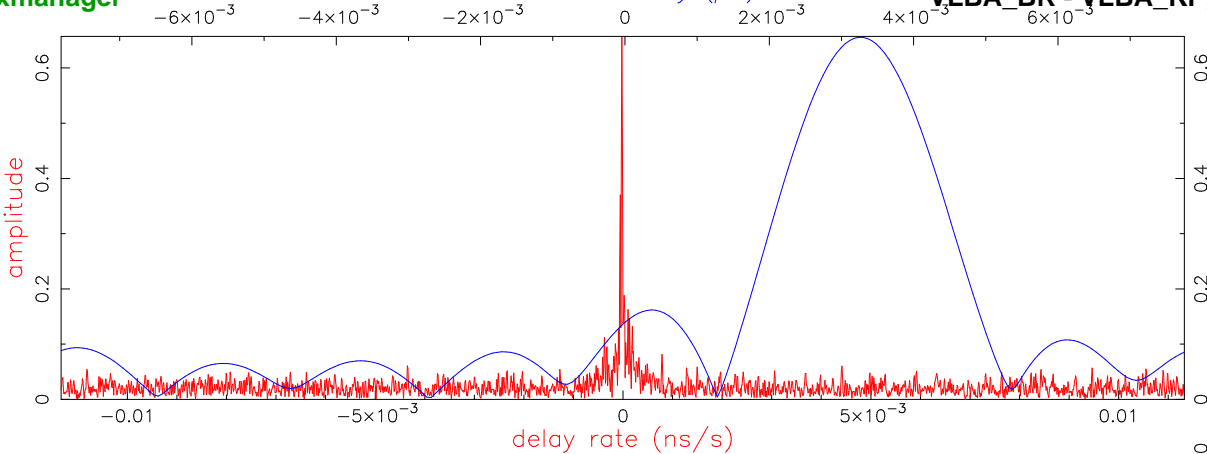
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bk

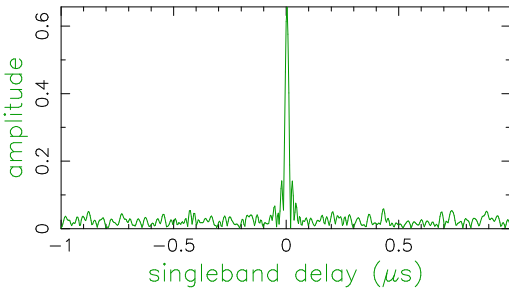
VLBA_BR - VLBA_KP, fgroup W, pol RR

multiband delay (μ s)

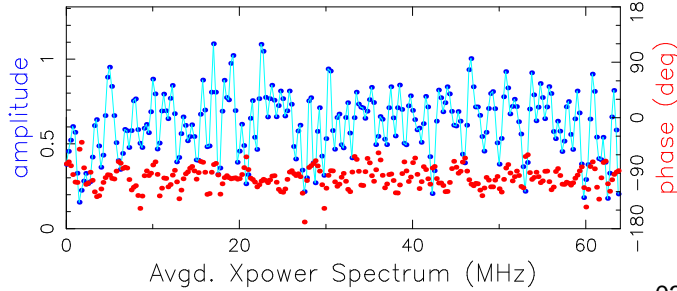


Fringe quality 8

SNR 39.2
 Int time 474.904
 Amp 0.657
 Phase -96.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.003296
 MBD 0.003250
 Fringe rate (Hz)
 -0.001522
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

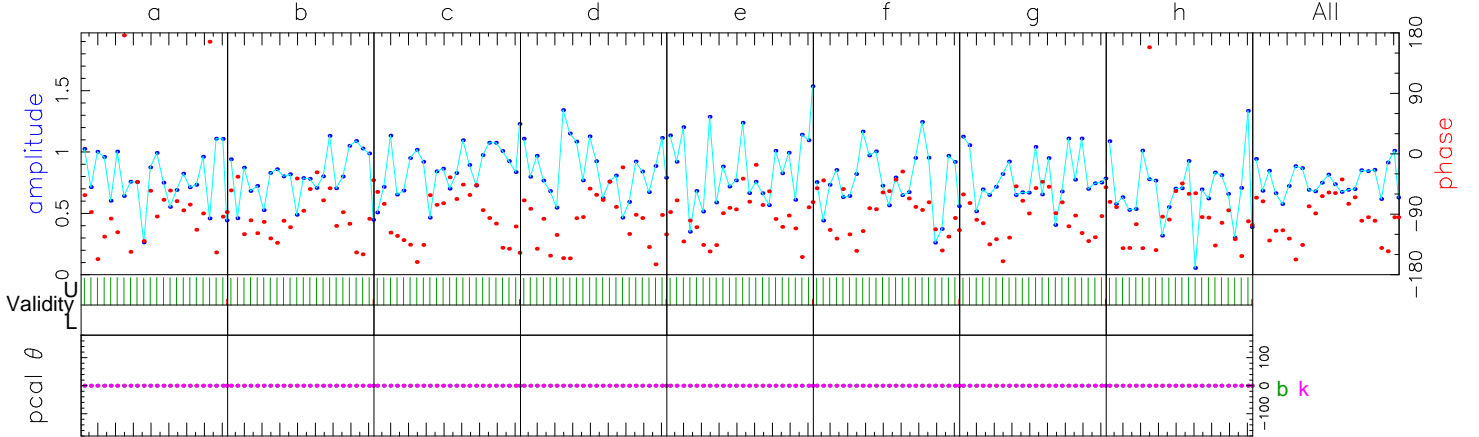


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132151
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	-100.2	-94.8	-97.7	-101.3	-94.5	-86.3	-92.2	-105.6	Phase	-96.4
	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.5	Ampl.	0.7
	258.1	258.1	257.9	257.6	258.2	257.6	257.6	257.6	Sbd box	257.8
U/L	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.24898303237E+03		Apriori delay (usec)		1.24897978237E+03		Resid mbdelay (usec)		3.25000E-03	+/- 2.8E-05
Sband delay (usec)	1.24898307862E+03		Apriori clock (usec)		-2.0479631E+00		Resid sbdelay (usec)		3.29625E-03	+/- 2.2E-04
Phase delay (usec)	1.24897977927E+03		Apriori clockrate (us/s)		-9.9999991E-08		Resid phdelay (usec)		-3.10794E-06	+/- 9.4E-08
Delay rate (us/s)	2.05688440954E-01		Apriori rate (us/s)		2.05688458624E-01		Resid rate (us/s)		-1.76693E-08	+/- 3.4E-10
Total phase (deg)			Apriori accel (us/s/s)		9.47022138302E-06		Resid phase (deg)		-96.4	+/- 2.9

	RMS	Theor.	Amplitude	0.657 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	32.2	7.0	Search (2048X32)	0.610	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	24.5	12.2	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	6.5	4.1	Inc. seg. avg.	0.767	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	7.2	7.2	Inc. frq. avg.	0.657					

b: az 255.4 el 73.1 pa 59.5 k: az 300.5 el 64.2 pa 101.1 u,v (fr/asec) -1561.559 2101.757 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk.W.28.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

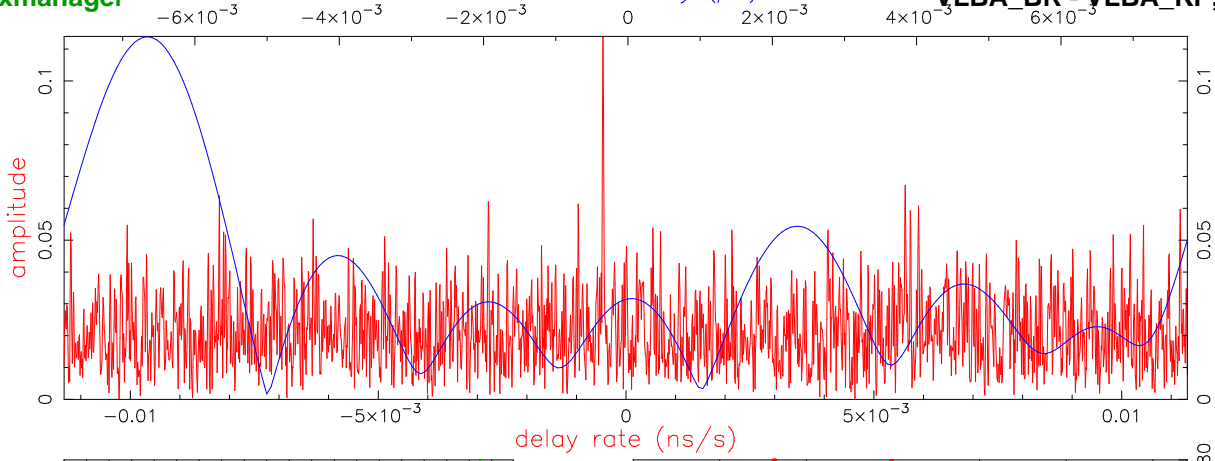
fxmanager

3C84.11M07A, No0101, bk

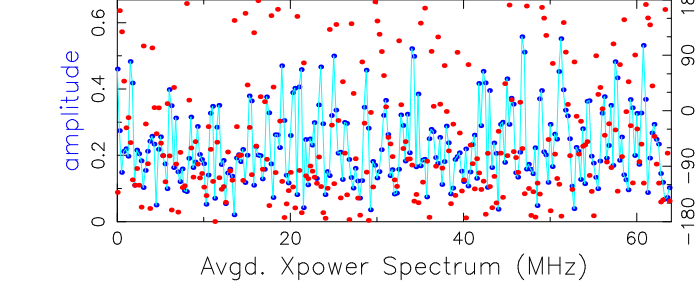
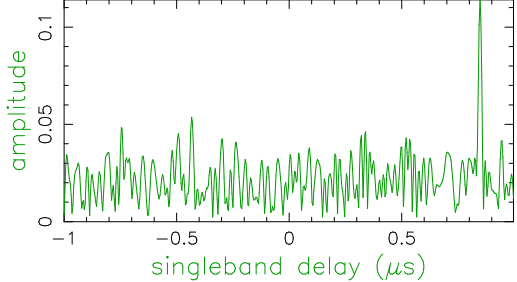
VLBA_BR - VLBA_KP, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 0

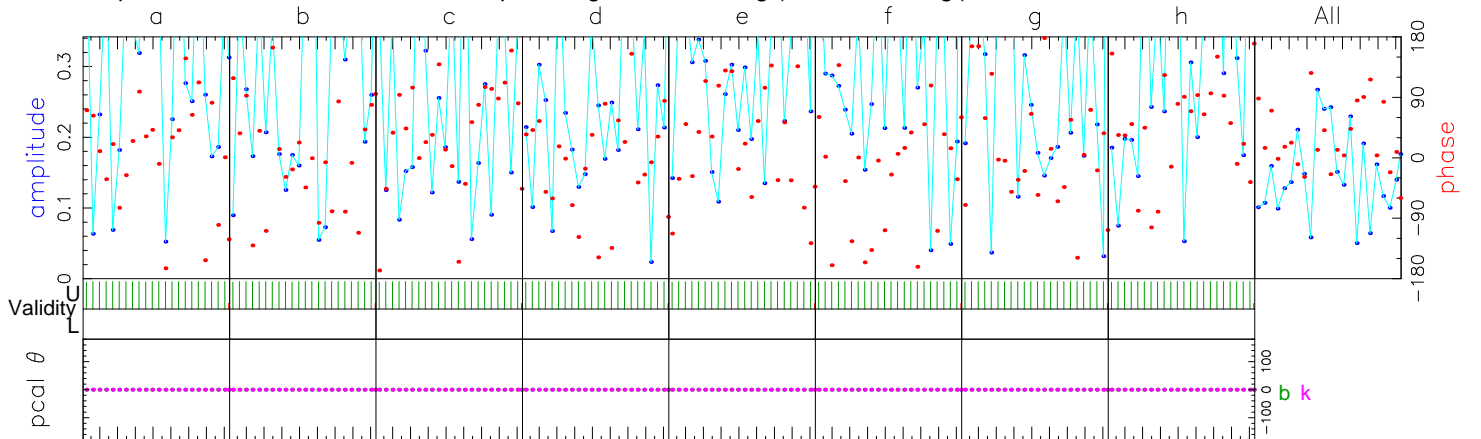


SNR 6.8
 Int time 474.904
 Amp 0.114
 Phase 23.1
 PFD 3.3e-03
 Delays (us)
 SBD 0.847922
 MBD -0.006655
 Fringe rate (Hz)
 -0.039860
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132155
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0			
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			
b	1000	1000	1000	1000	1000	1000	1000	1000			
k	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.24983250280E+03			1.24897978237E+03				Resid mbdelay (usec)	-6.65457E-03	+/- 1.6E-04
Sband delay (usec)		1.24982770412E+03			-2.0479631E+00				Resid sbdelay (usec)	8.47922E-01	+/- 1.3E-03
Phase delay (usec)		1.24897978312E+03			-9.9999991E-08				Resid phdelay (usec)	7.44767E-07	+/- 5.4E-07
Delay rate (us/s)		2.05687995889E-01			2.05688458624E-01				Resid rate (us/s)	-4.62735E-07	+/- 2.0E-09
Total phase (deg)			186.4		9.47022138302E-06				Resid phase (deg)	23.1	+/- 16.9
ph/seg (deg)	RMS 47.3	Theor. 40.5	Amplitude 47.3	0.114 +/- 0.017	Search (2048X32) 0.109	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	60.2	70.6	Interp. 60.2	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	25.2	23.9	Inc. seg. avg. 25.2	0.118	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	32.0	41.7	Inc. frq. avg. 32.0	0.112	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00	

b: az 255.4 el 73.1 pa 59.5 k: az 300.5 el 64.2 pa 101.1 u,v (fr/asec) -1561.559 2101.757 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk.W.46.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

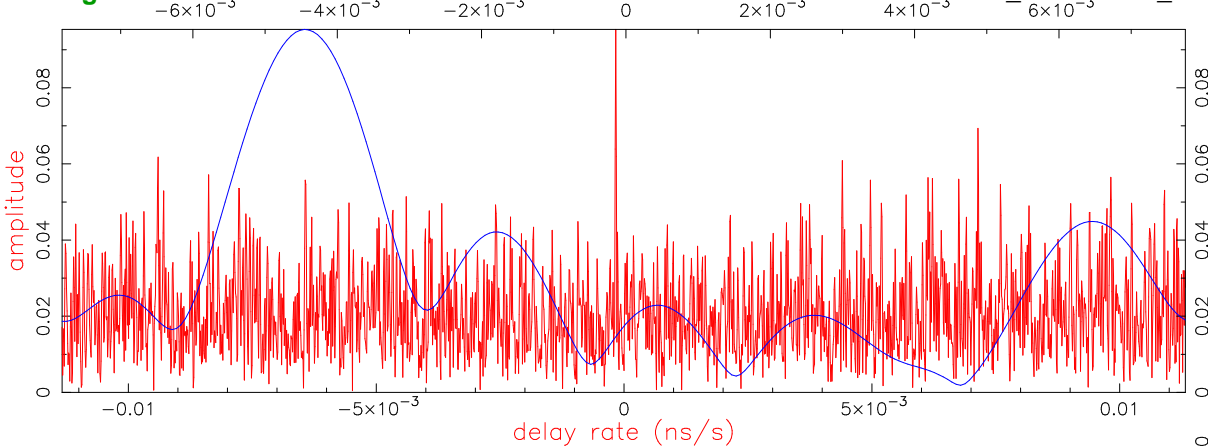
fxmanager

3C84.11M07A, No0101, bk

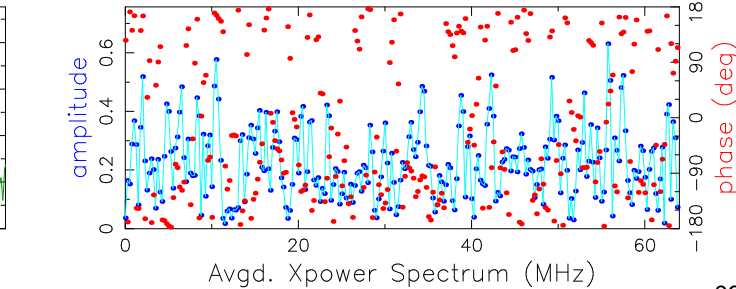
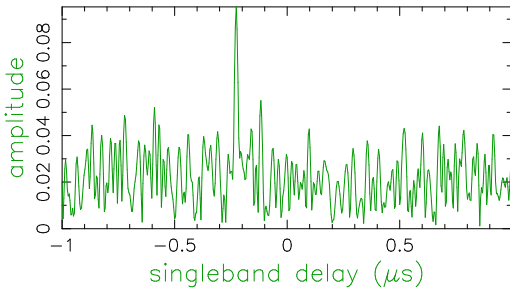
VLBA_BR - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

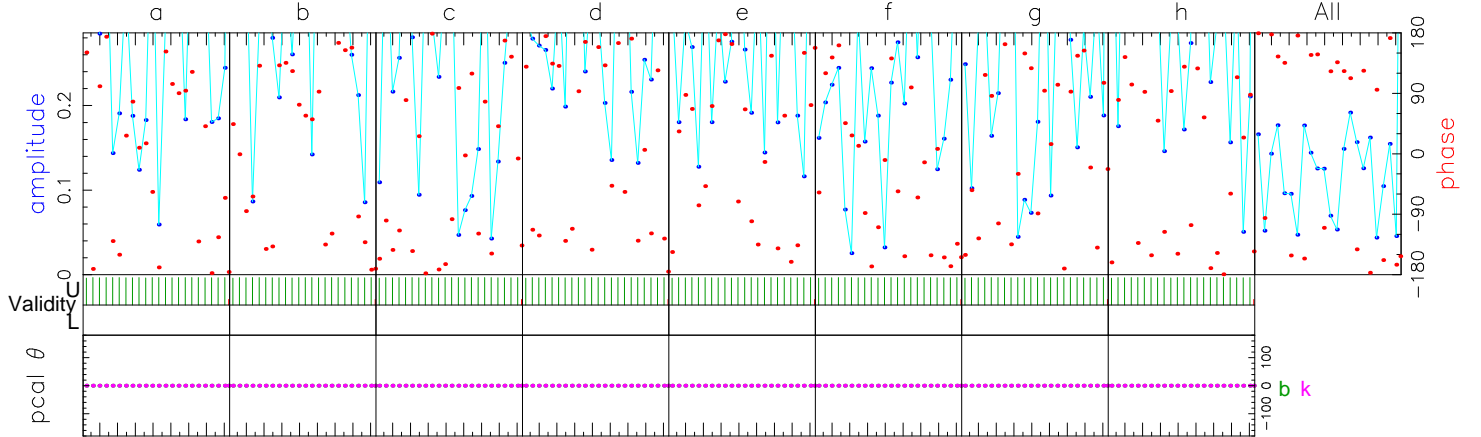


SNR 5.7
 Int time 474.906
 Amp 0.095
 Phase 169.2
 PFD 9.6e-01
 Delays (us)
 SBD -0.226669
 MBD -0.004453
 Fringe rate (Hz)
 -0.014219
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132159
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0		
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	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.24875657949E+03	Apriori delay (usec)	1.24897978237E+03	Resid mbdelay (usec)	-4.45289E-03	+/-	1.9E-04
Sband delay (usec)	1.24875311362E+03	Apriori clock (usec)	-2.0479631E+00	Resid sbdelay (usec)	-2.26669E-01	+/-	1.5E-03
Phase delay (usec)	1.24897978783E+03	Apriori clockrate (us/s)	-9.9999991E-08	Resid phdelay (usec)	5.45783E-06	+/-	6.5E-07
Delay rate (us/s)	2.05688293552E-01	Apriori rate (us/s)	2.05688458624E-01	Resid rate (us/s)	-1.65072E-07	+/-	2.4E-09
Total phase (deg)	332.6	Apriori accel (us/s/s)	9.47022138302E-06	Resid phase (deg)	169.2	+/-	20.2

	RMS	Theor.	Amplitude	0.095 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.6	48.4	Search (2048X32)	0.094	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	75.0	84.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	27.8	28.5	Inc. seg. avg.	0.091	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	36.3	49.8	Inc. frq. avg.	0.091	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 255.4 el 73.1 pa 59.5 k: az 300.5 el 64.2 pa 101.1 u,v (fr/asec) -1561.559 2101.757 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bk.W.66.11M07A

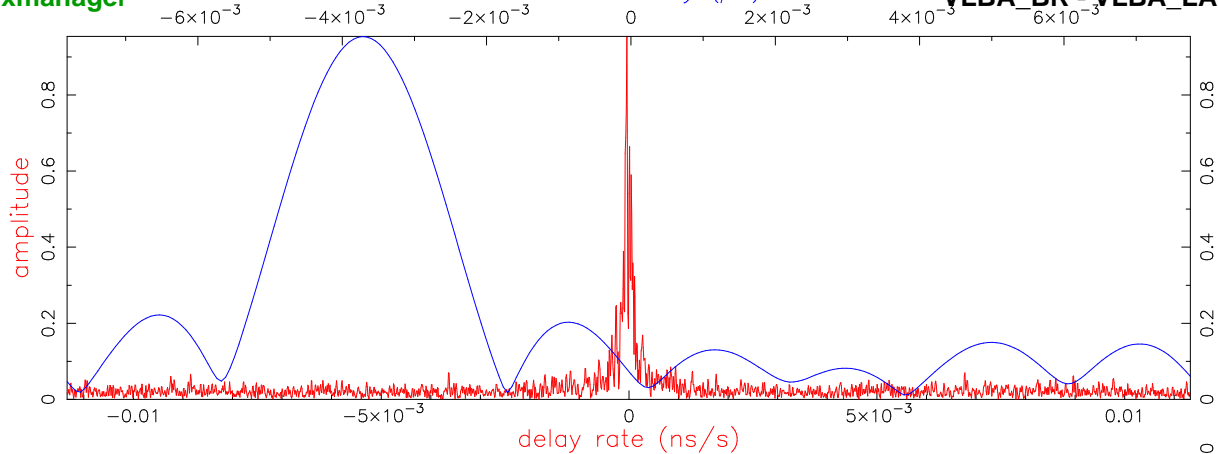
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bl

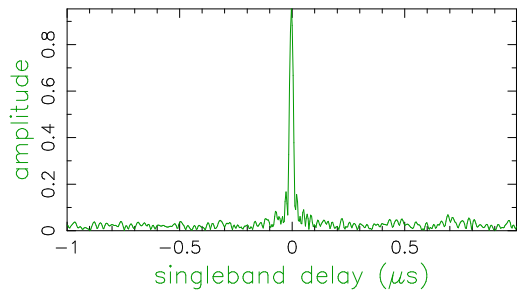
VLBA_BR - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)

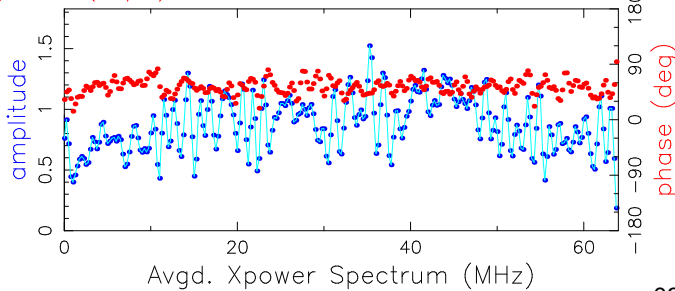


Fringe quality 5

SNR 57.2
 Int time 479.980
 Amp 0.954
 Phase 54.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.003572
 MBD -0.003705
 Fringe rate (Hz)
 -0.004256
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

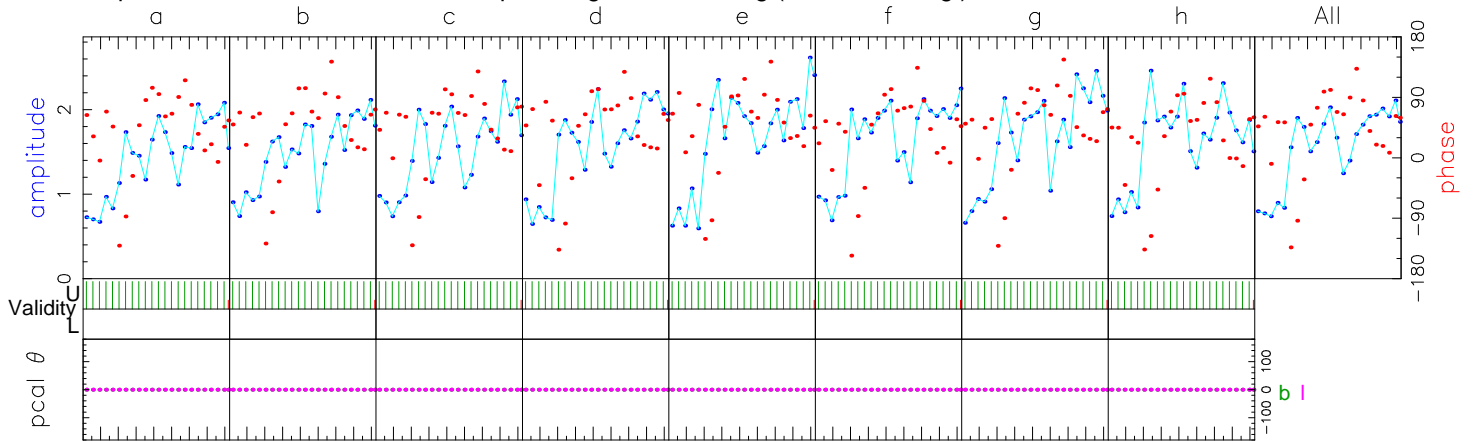


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132146
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0			
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)		1.64858658952E+03				1.64859029448E+03			Resid mbdelay (usec)	-3.70496E-03	+/- 1.9E-05
Sband delay (usec)		1.64858672248E+03				-1.3080359E+00			Resid sbdelay (usec)	-3.57200E-03	+/- 1.5E-04
Phase delay (usec)		1.64859029624E+03				9.9999998E-08			Resid phdelay (usec)	1.75625E-06	+/- 6.5E-08
Delay rate (us/s)		2.56844361276E-01				2.56844410681E-01			Resid rate (us/s)	-4.94049E-08	+/- 2.3E-10
Total phase (deg)			42.4			3.20764656334E-06			Resid phase (deg)	54.5	+/- 2.0
ph/seg (deg)	60.4	4.8							PCal mode: MANUAL, MANUAL		
amp/seg (%)	78.3	8.4							PCal rate: 0.000E+00, 0.000E+00 (us/s)		
ph/frq (deg)	6.5	2.8							Bits/sample: 2x2		
amp/frq (%)	5.4	4.9							SampCntNorm: enabled		
									Sample rate(MISamp/s): 128		
									Data rate(Mb/s): 2048		
									nlags: 256		
									t_cohere infinite		
b: az 255.4 el 73.1 pa 59.5									ion window (TEC)	0.00	0.00
l: az 292.8 el 61.9 pa 90.7											
u,v (fr/asec)											
Control file: cf_1234_gmva											
Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl..11M07A											
Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl.W.1.11M07A											

simultaneous interpolator

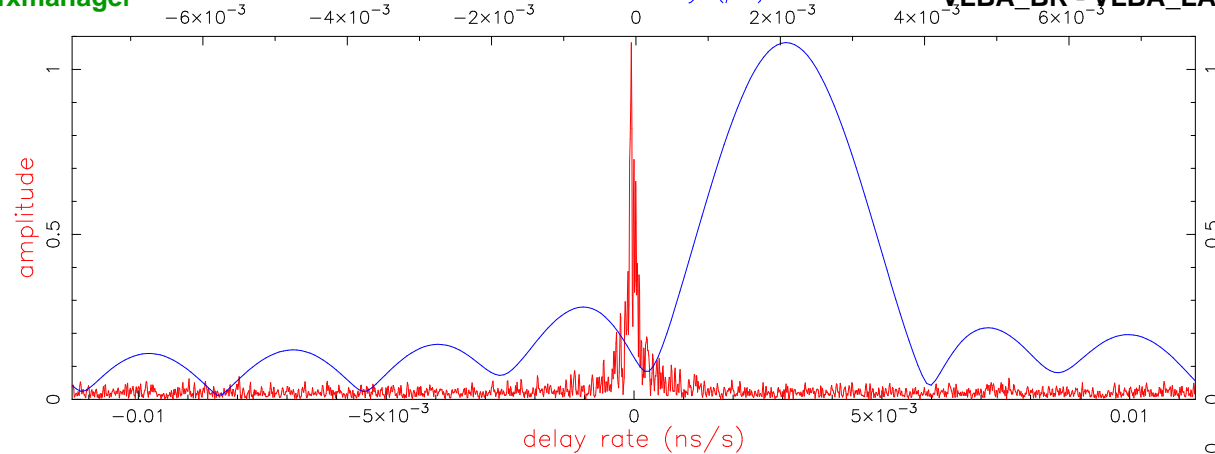
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bl

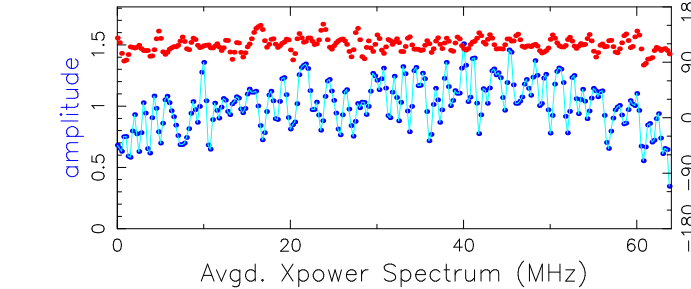
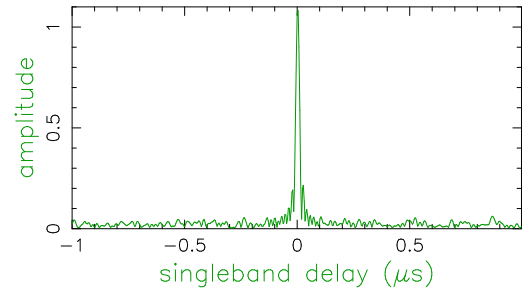
VLBA_BR - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)

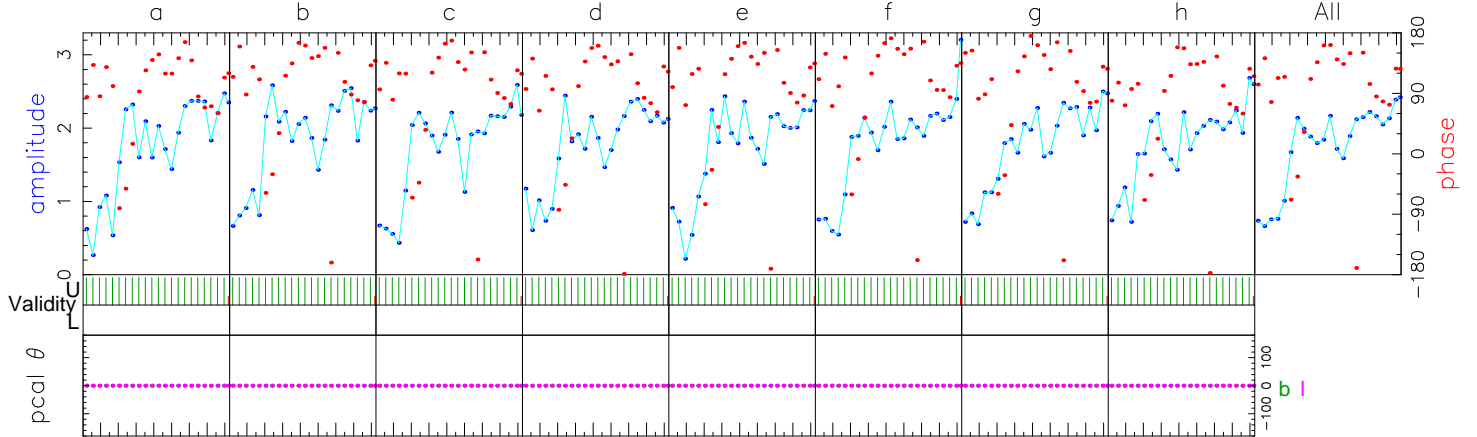


Fringe quality 5

SNR 65.9
 Int time 479.980
 Amp 1.100
 Phase 120.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.002200
 MBD 0.002050
 Fringe rate (Hz) -0.004305
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132150
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.64859234465E+03			1.64859029448E+03				2.05017E-03	+/- 1.6E-05
Sband delay (usec)		1.64859249473E+03			-1.3080359E+00				2.20025E-03	+/- 1.3E-04
Phase delay (usec)		1.64859029836E+03			9.9999998E-08				3.87629E-06	+/- 5.6E-08
Delay rate (us/s)		2.56844360708E-01			2.56844410681E-01				-4.99724E-08	+/- 2.0E-10
Total phase (deg)			108.2		3.20764656334E-06				120.2	+/- 1.7
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										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
ph/seg (deg)	60.0	4.2		Search (2048X32)	1.015					
amp/seg (%)	75.8	7.3		Interp.	0.000					
ph/frq (deg)	9.4	2.5		Inc. seg. avg.	1.726					
amp/frq (%)	3.4	4.3		Inc. frq. avg.	1.091					
b: az 255.4 el 73.1 pa 59.5				l: az 292.8 el 61.9 pa 90.7						
Control file: cf_1234_gmva				Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl..11M07A						
				Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl.W.20.11M07A						

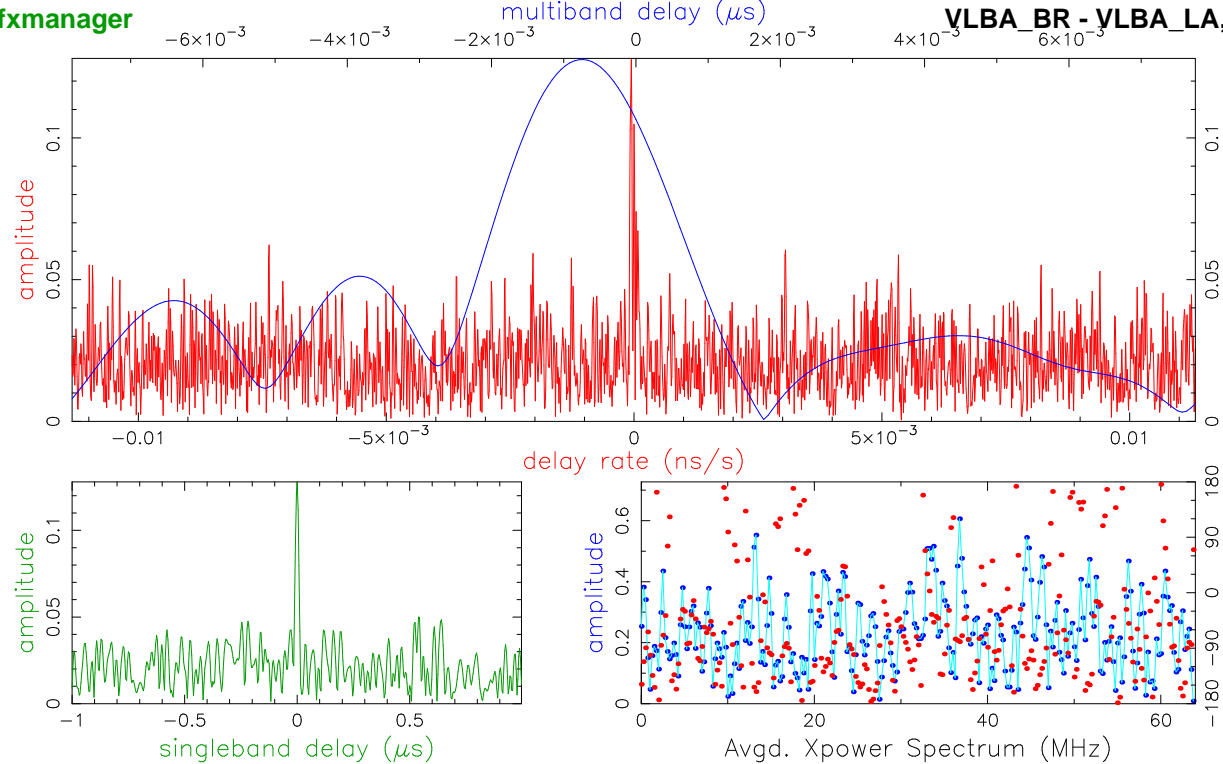
simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

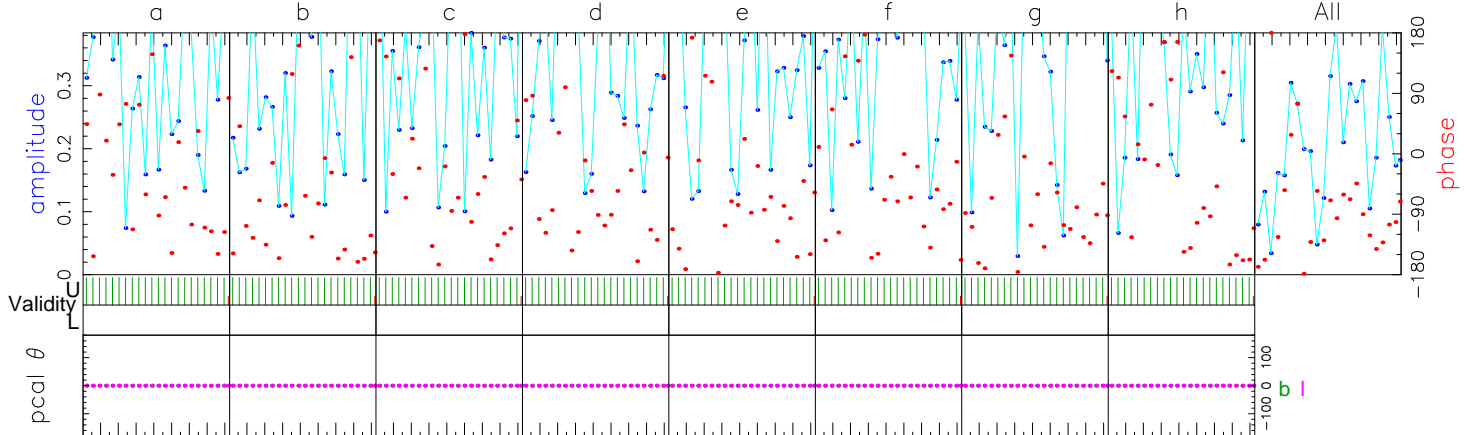
3C84.11M07A, No0101, bl

VLBA_BR - VLBA_LA, fgroup W, pol LR



Fringe quality 9
 SNR 7.7
 Int time 479.980
 Amp 0.128
 Phase -96.6
 PFD 5.7e-06
 Delays (us)
 SBD -0.000757
 MBD -0.000745
 Fringe rate (Hz)
 -0.004580
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132154
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	-45.6	-122.7	-94.0	-85.2	-108.3	-68.5	-89.3	-137.5	Phase	-96.6
	0.0	0.2	0.1	0.1	0.2	0.2	0.2	0.1	Ampl.	0.1
	38.7	256.5	103.6	131.8	256.1	370.7	257.1	376.4	Sbd box	256.8
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.64858954943E+03		Apriori delay (usec)		1.64859029448E+03		Resid mbdelay (usec)		-7.45053E-04	+/- 1.4E-04
Sband delay (usec)	1.64858953748E+03		Apriori clock (usec)		-1.3080359E+00		Resid sbdelay (usec)		-7.57000E-04	+/- 1.1E-03
Phase delay (usec)	1.64859029137E+03		Apriori clockrate (us/s)		9.9999998E-08		Resid phdelay (usec)		-3.11441E-06	+/- 4.8E-07
Delay rate (us/s)	2.56844357515E-01		Apriori rate (us/s)		2.56844410681E-01		Resid rate (us/s)		-5.31659E-08	+/- 1.7E-09
Total phase (deg)	251.4		Apriori accel (us/s/s)		3.20764656334E-06		Resid phase (deg)		-96.6	+/- 14.9

ph/seg (deg) 61.2 35.8 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 101.0 62.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.8 21.1 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.2 36.9 Inc. frq. avg. 0.130 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 255.4 el 73.1 pa 59.5 l: az 292.8 el 61.9 pa 90.7 u,v (fr/asec) -1962.992 1302.591 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl.W.39.11M07A

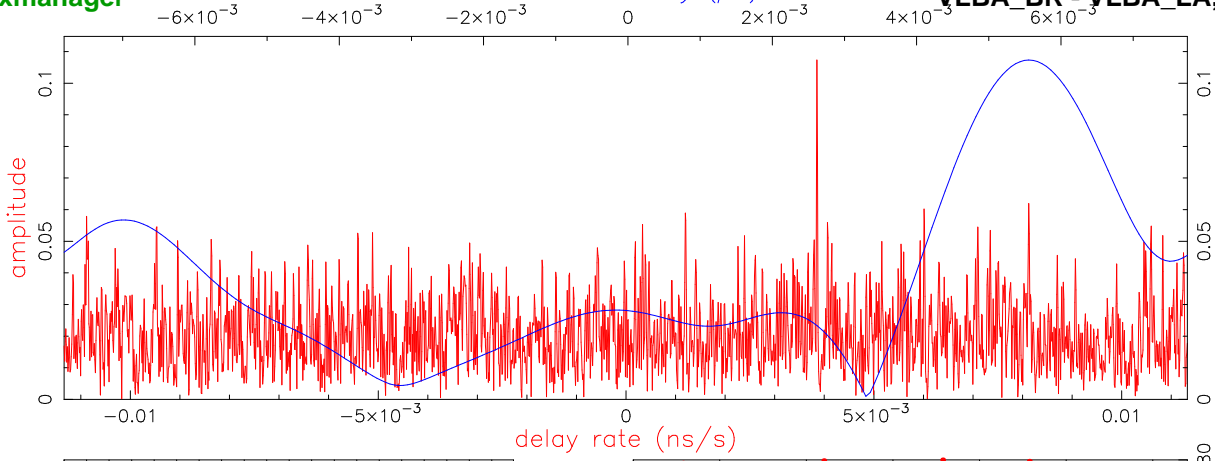
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bl

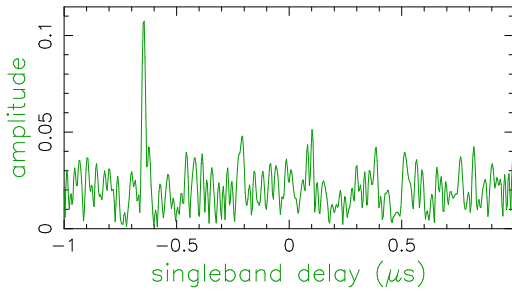
VLBA_BR - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)

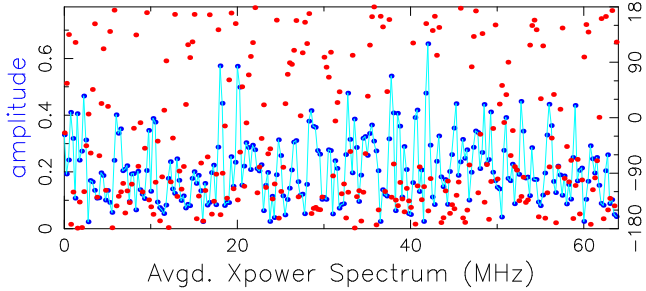


Fringe quality 0

SNR 6.6
 Int time 479.980
 Amp 0.115
 Phase -91.3
 PFD 1.6e-02
 Delays (us)
 SBD -0.646277
 MBD 0.005568
 Fringe rate (Hz)
 0.332309
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

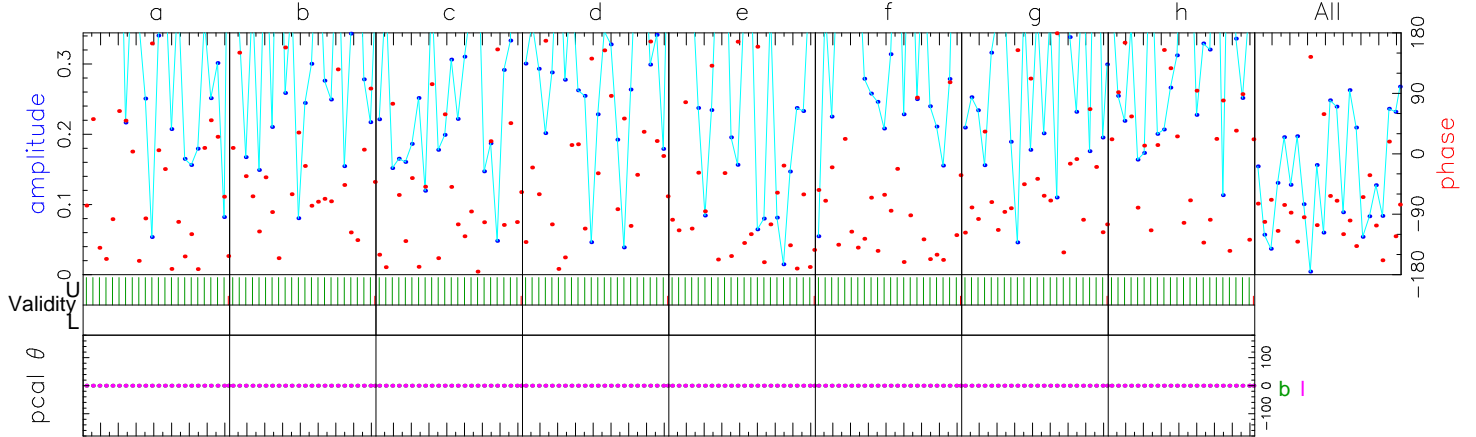


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132158
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



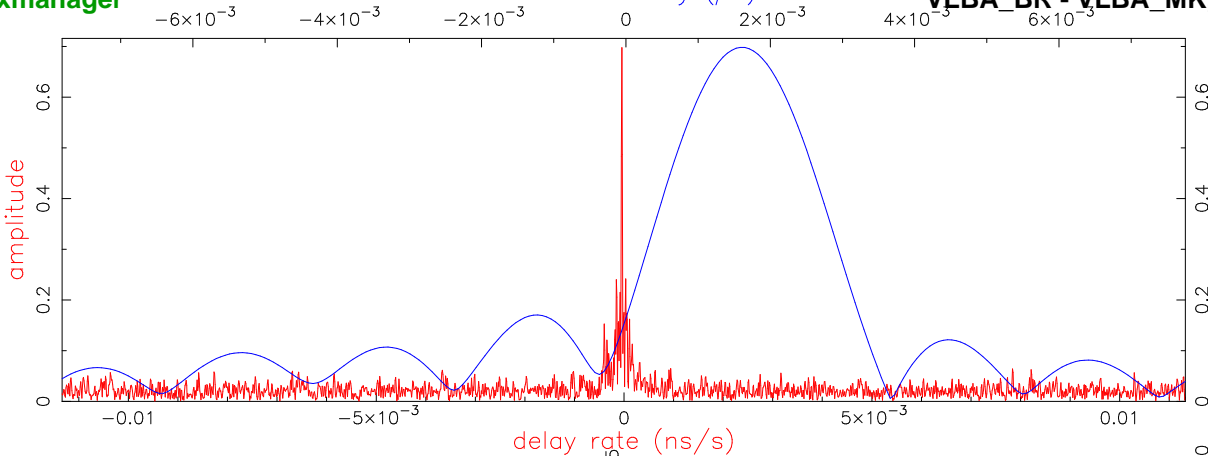
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-54.6	-81.7	-117.1	-53.7	-123.2	-105.9	-73.5	-35.4	Phase	-91.3
	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.0	Ampl.	0.1
	264.4	374.2	315.7	446.0	93.2	91.0	91.6	238.4	Sbd box	91.6
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.64793961201E+03		Apriori delay (usec)		1.64859029448E+03		Resid mbdelay (usec)		5.56753E-03	+/- 1.7E-04
Sband delay (usec)	1.64794401698E+03		Apriori clock (usec)		-1.3080359E+00		Resid sbdelay (usec)		-6.46277E-01	+/- 1.3E-03
Phase delay (usec)	1.64859029154E+03		Apriori clockrate (us/s)		9.9999998E-08		Resid phdelay (usec)		-2.94392E-06	+/- 5.6E-07
Delay rate (us/s)	2.56848268460E-01		Apriori rate (us/s)		2.56844410681E-01		Resid rate (us/s)		3.85778E-06	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.20764656334E-06		Resid phase (deg)		-91.3	+/- 17.5

	RMS	Theor.	Amplitude	0.115 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	55.2	41.9	Search (2048X32)	0.097	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	76.3	73.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	36.9	24.7	Inc. seg. avg.	0.118	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	54.8	43.2	Inc. frq. avg.	0.114	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

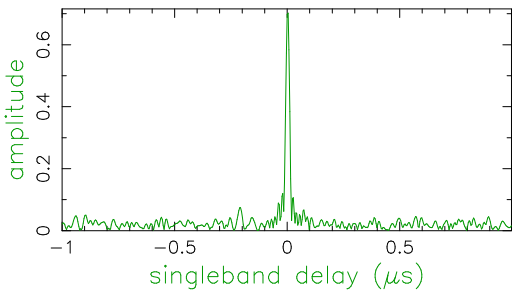
b: az 255.4 el 73.1 pa 59.5 l: az 292.8 el 61.9 pa 90.7 u,v (fr/asec) -1962.992 1302.591 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bl.W.58.11M07A

multiband delay (μ s)

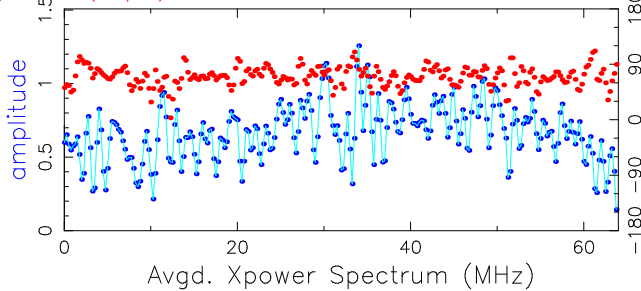
Fringe quality 8



SNR 42.8
Int time 476.981
Amp 0.716
Phase 76.3
PFD 0.0e+00
Delays (us)
SBD 0.002076
MBD 0.001653
Fringe rate (Hz)
-0.004002
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

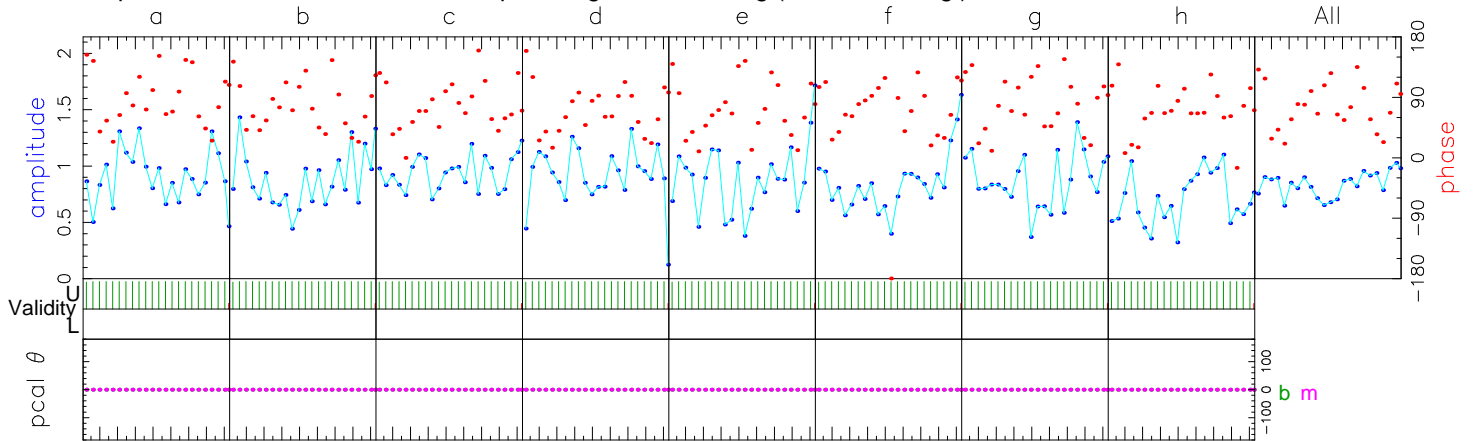


delay rate (ns/s)



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113003.56
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132153
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	86.5	76.0	78.6	67.8	71.8	79.0	79.6	70.7	Phase	76.3
	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.6	Ampl.	0.7
	257.5	257.5	257.7	257.5	257.4	257.4	257.6	257.7	Sbd box	257.5
U/L	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	8.65547747624E+02	Apriori delay (usec)		8.65546094534E+02	Resid mbdelay (usec)		1.65309E-03	+/- 2.5E-05	
Sband delay (usec)	8.65548170284E+02	Apriori clock (usec)		-1.5077964E+01	Resid sbdelay (usec)		2.07575E-03	+/- 2.0E-04	
Phase delay (usec)	8.65546096994E+02	Apriori clockrate (us/s)		-9.9999991E-08	Resid phdelay (usec)		2.46021E-06	+/- 8.6E-08	
Delay rate (us/s)	-5.44460308095E-01	Apriori rate (us/s)		-5.44460261631E-01	Resid rate (us/s)		-4.64637E-08	+/- 3.1E-10	
Total phase (deg)	286.2		Apriori accel (us/s/s)		2.56732594938E-05	Resid phase (deg)		76.3	+/- 2.7

ph/seg (deg)	RMS 34.7	Theor. 6.4	Amplitude Search (2048X32)	0.716 +/- 0.017	0.681	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	22.5	11.2	Interp.	0.000	0.833	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	6.5	3.8	Inc. seg. avg.	0.833	0.700	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	9.2	6.6	Inc. frq. avg.	0.700		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 255.4 el 73.1 pa 59.5 m: az 25.1 el 65.3 pa -146.5 u,v (fr/asec) 4205.749 4435.532 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm.W.36.11M07A

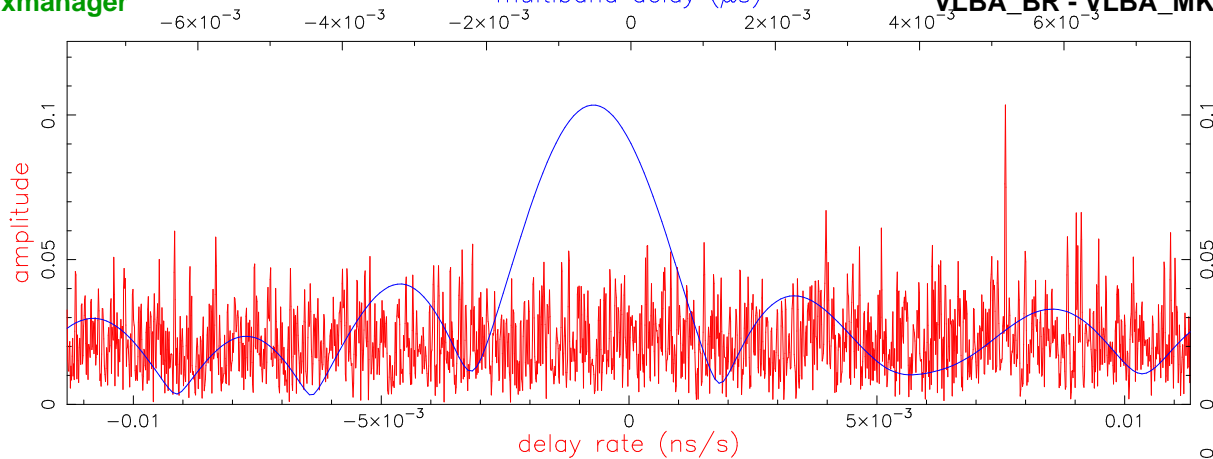
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1M07A, No0101, bm

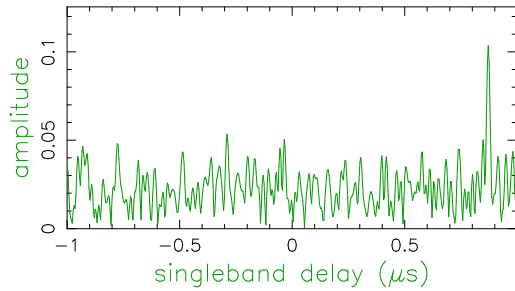
VLBA_BR - VLBA_MK, fgroup W, pol LR

multiband delay (μ s)

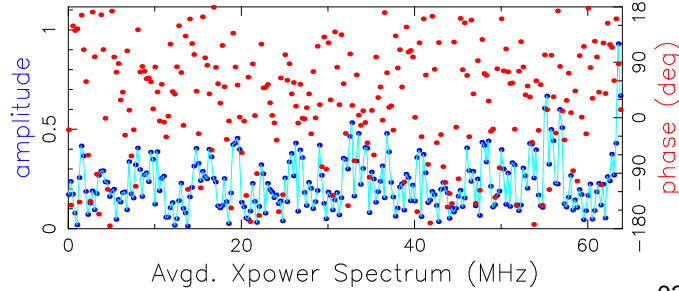


Fringe quality 0

SNR 6.2
 Int time 476.981
 Amp 0.125
 Phase 18.9
 PFD 1.6e-01
 Delays (us)
 SBD 0.870900
 MBD -0.000525
 Fringe rate (Hz)
 0.654967
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

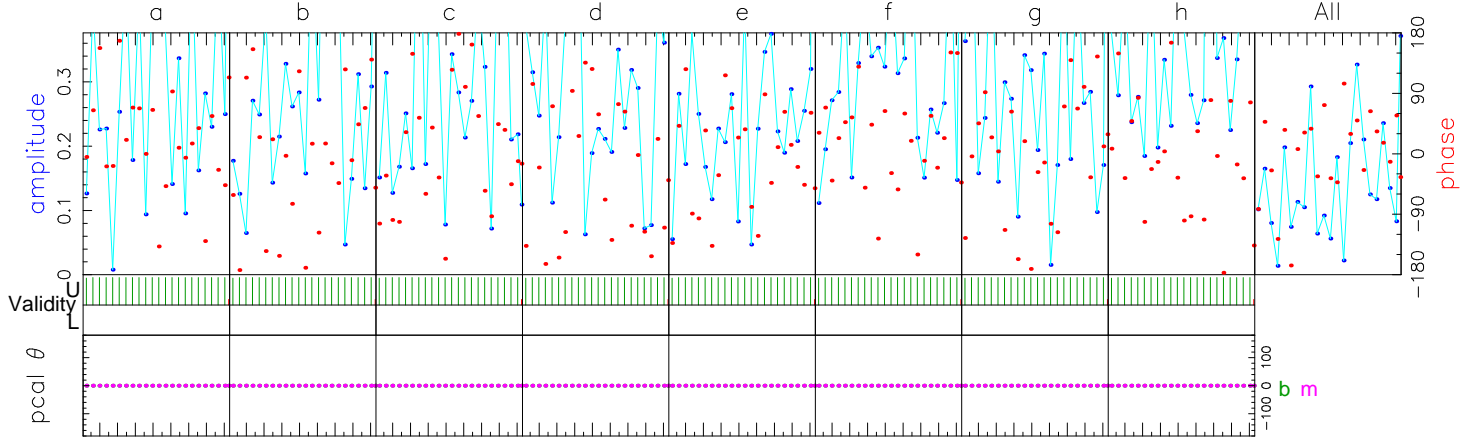


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132156
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0		
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: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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		8.66420569850E+02				8.65546094534E+02			Resid mbdelay (usec)	-5.24684E-04 +/- 1.8E-04
Sband delay (usec)		8.66416994784E+02				-1.5077964E+01			Resid sbdelay (usec)	8.70900E-01 +/- 1.4E-03
Phase delay (usec)		8.65546095145E+02				-9.9999991E-08			Resid phdelay (usec)	6.10961E-07 +/- 6.0E-07
Delay rate (us/s)		-5.44452658118E-01				-5.44460261631E-01			Resid rate (us/s)	7.60351E-06 +/- 2.2E-09
Total phase (deg)			228.9			2.56732594938E-05			Resid phase (deg)	18.9 +/- 18.5
	RMS	Theor.	Amplitude	0.125 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	64.8	44.5	Search (2048X32)	0.100					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	87.2	77.6	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	23.8	26.2	Inc. seg. avg.	0.129					Sample rate(MSamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	34.2	45.8	Inc. frq. avg.	0.117					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 255.4 el 73.1 pa 59.5			m: az 25.1 el 65.3 pa -146.5			u,v (fr/asec) 4205.749 4435.532				simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm.W.54.11M07A

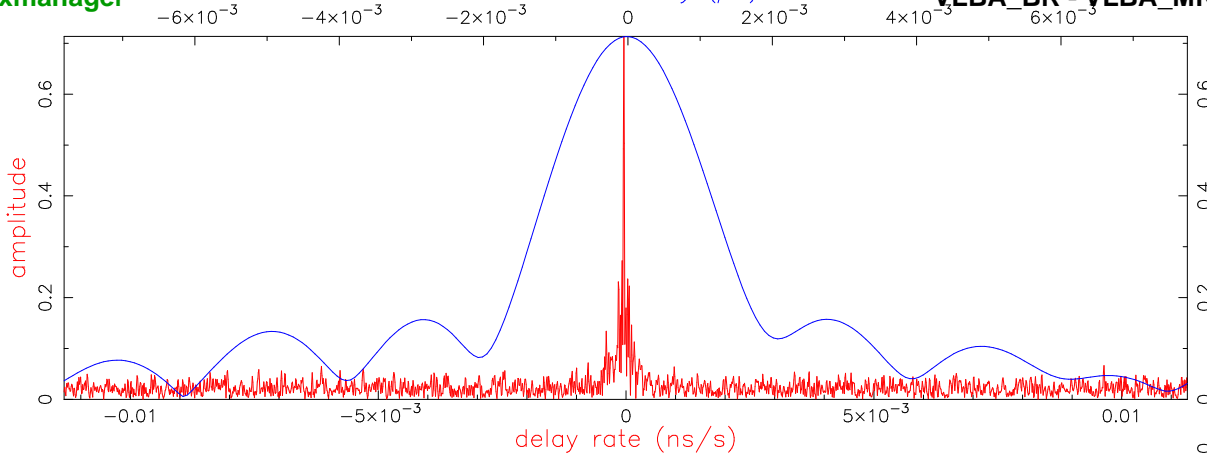
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1M07A, No0101, bm

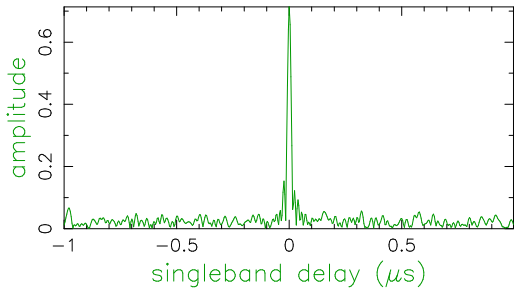
VLBA_BR - VLBA_MK, fgroup W, pol LL

multiband delay (μ s)

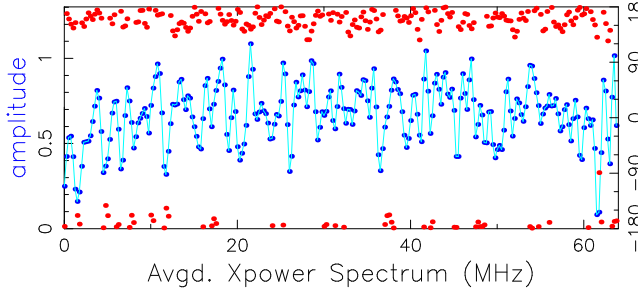


Fringe quality 7

SNR 42.6
 Int time 476.981
 Amp 0.714
 Phase 167.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.000238
 MBD -0.000008
 Fringe rate (Hz)
 -0.003914
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

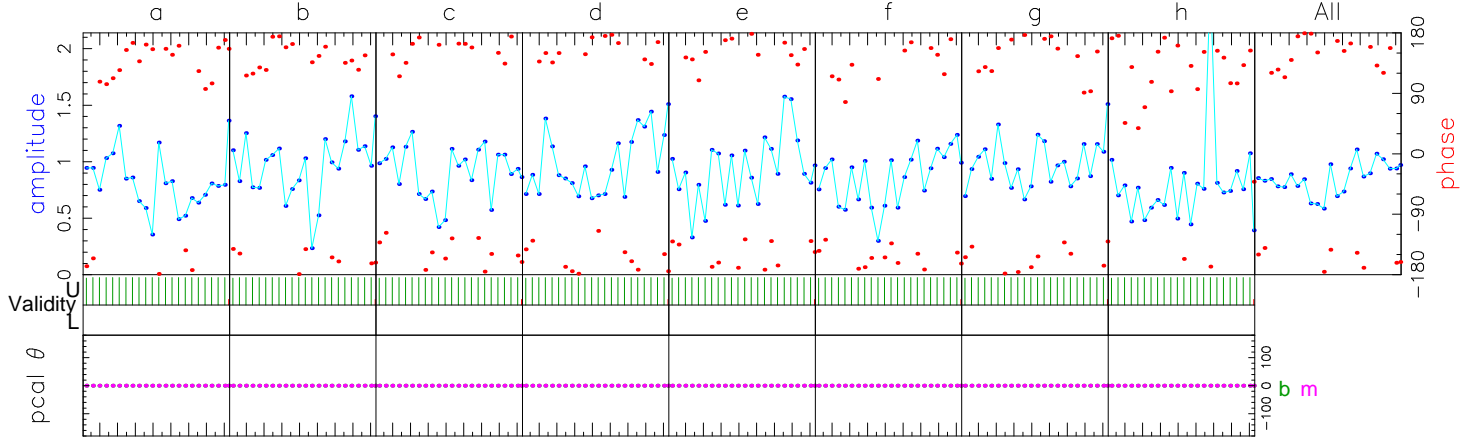


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132147
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	149.3	162.6	-179.7	174.3	179.9	174.7	168.3	141.2	Phase	167.4
	0.7	0.8	0.7	0.8	0.8	0.7	0.8	0.6	Ampl.	0.7
	257.3	257.1	257.2	256.8	257.0	256.7	256.9	256.9	Sbd box	257.1
U/L	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0	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	Manl 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)	8.65546087030E+02		Apriori delay (usec)		8.65546094534E+02		Resid mbdelay (usec)		-7.50366E-06	+/- 2.5E-05
Sband delay (usec)	8.65546332284E+02		Apriori clock (usec)		-1.5077964E+01		Resid sbdelay (usec)		2.37750E-04	+/- 2.0E-04
Phase delay (usec)	8.65546099931E+02		Apriori clockrate (us/s)		-9.9999991E-08		Resid phdelay (usec)		5.39669E-06	+/- 8.7E-08
Delay rate (us/s)	-5.44460307072E-01		Apriori rate (us/s)		-5.44460261631E-01		Resid rate (us/s)		-4.54412E-08	+/- 3.1E-10
Total phase (deg)	17.3		Apriori accel (us/s/s)		2.56732594938E-05		Resid phase (deg)		167.4	+/- 2.7

	RMS	Theor.	Amplitude	0.714 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	32.3	6.4	Search (2048X32)	0.709	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	26.9	11.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	15.6	3.8	Inc. seg. avg.	0.844	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	11.3	6.6	Inc. frq. avg.	0.730	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 255.4 el 73.1 pa 59.5 m: az 25.1 el 65.3 pa -146.5 u,v (fr/asec) 4205.749 4435.532 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm.W.6.11M07A

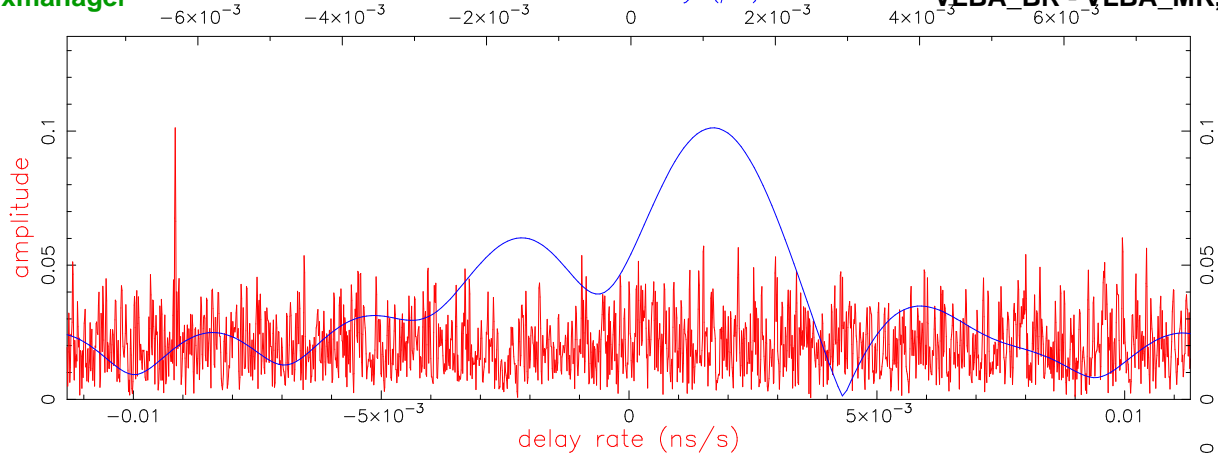
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1M07A, No0101, bm

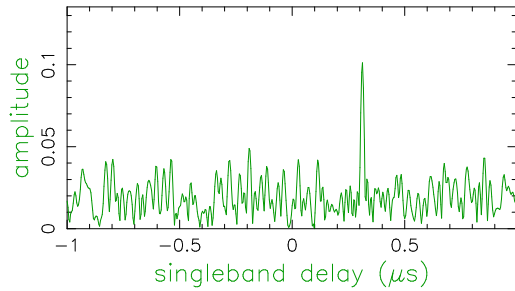
VLBA_BR - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)

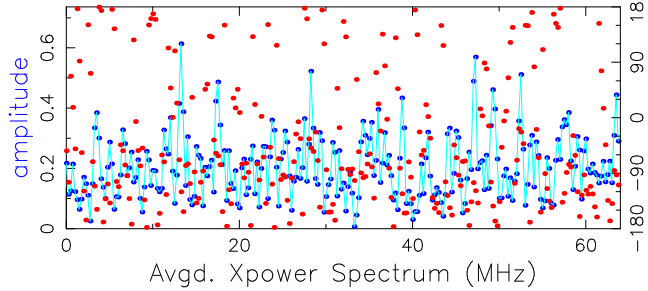


Fringe quality 0

SNR 6.1
 Int time 476.981
 Amp 0.135
 Phase -131.2
 PFD 2.8e-01
 Delays (us)
 SBD 0.311620
 MBD 0.001116
 Fringe rate (Hz)
 -0.789475
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

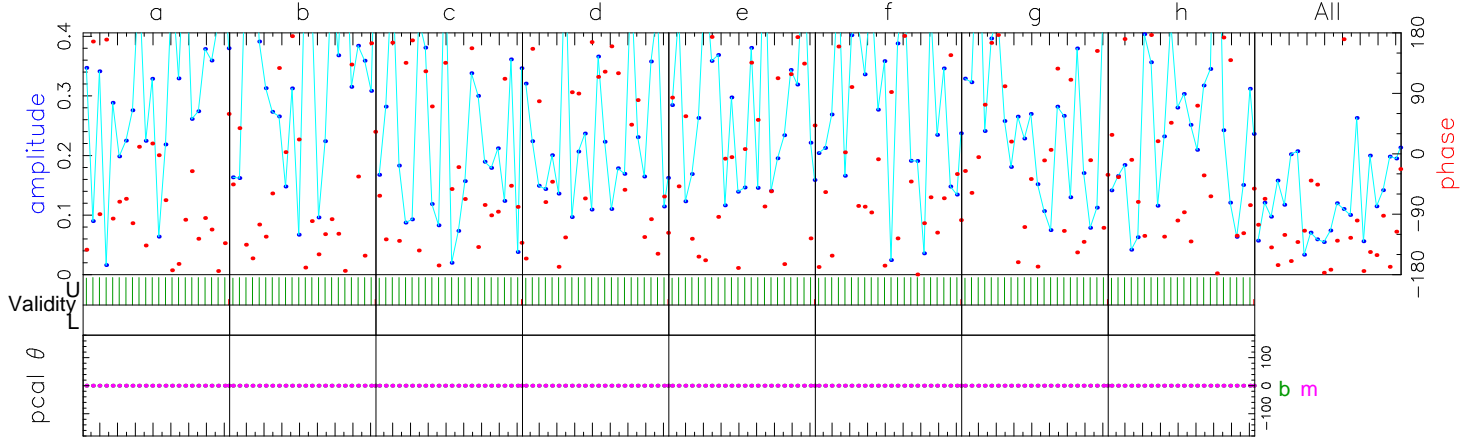


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113003.56
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132200
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



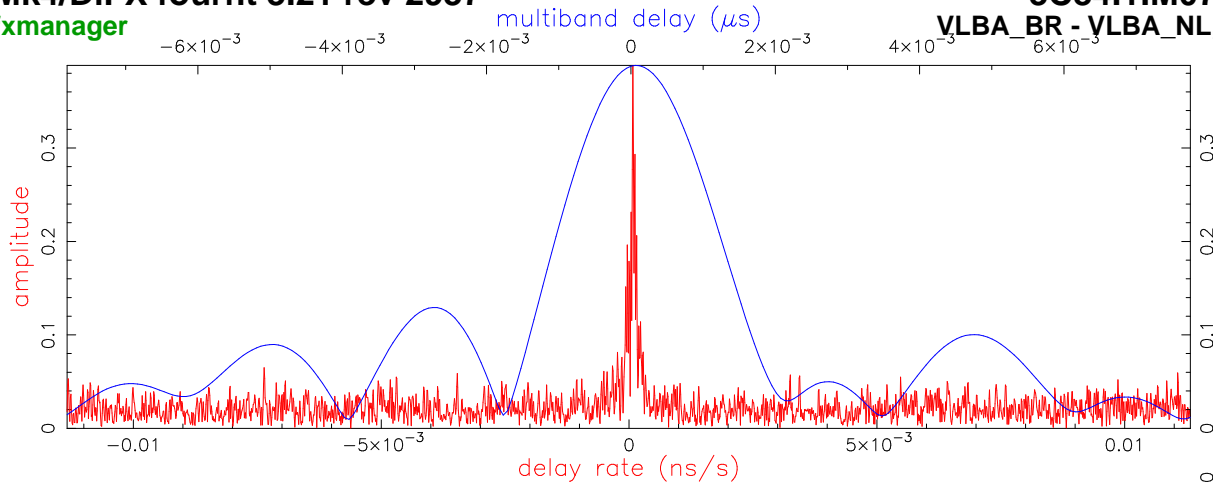
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.3	-137.6	-158.2	-168.2	-165.9	-114.7	-108.4	-119.3	Phase	-131.2
	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	336.2	337.7	387.7	297.6	108.6	203.3	20.3	239.2	Sbd box	336.8
U/L	933/0	933/0	933/0	933/0	933/0	933/0	933/0	933/0	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	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	8.65859710964E+02	Apriori delay (usec)	8.65546094534E+02	Resid mbdelay (usec)	1.11643E-03	+/-	1.8E-04
Sband delay (usec)	8.65857714784E+02	Apriori clock (usec)	-1.5077964E+01	Resid sbdelay (usec)	3.11620E-01	+/-	1.4E-03
Phase delay (usec)	8.65546090303E+02	Apriori clockrate (us/s)	-9.9999991E-08	Resid phdelay (usec)	-4.23061E-06	+/-	6.1E-07
Delay rate (us/s)	-5.44469426648E-01	Apriori rate (us/s)	-5.44460261631E-01	Resid rate (us/s)	-9.16502E-06	+/-	2.2E-09
Total phase (deg)	78.7	Apriori accel (us/s/s)	2.56732594938E-05	Resid phase (deg)	-131.2	+/-	18.9

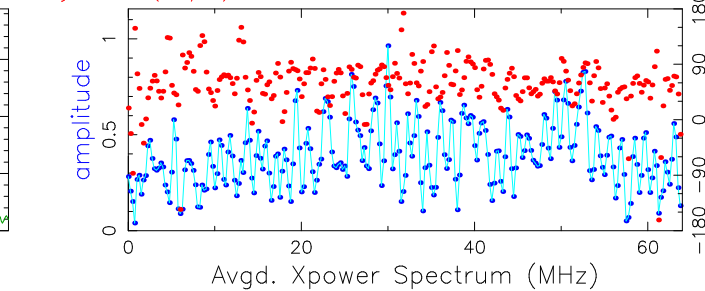
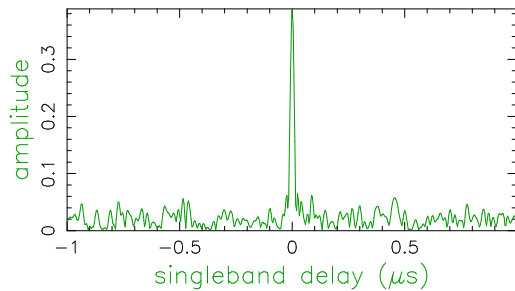
ph/seg (deg)	42.0	Theor.	45.2	Amplitude	0.135 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	65.2	Search (2048X32)	0.098	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	28.3	Inc. seg. avg.	0.128	Inc. frq. avg.	0.131	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	51.5	Inc. frq. avg.	0.131	u,v (fr/asec)	4205.749 4435.532	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
						Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 255.4 el 73.1 pa 59.5 m: az 25.1 el 65.3 pa -146.5 u,v (fr/asec) 4205.749 4435.532 simultaneous interpolator

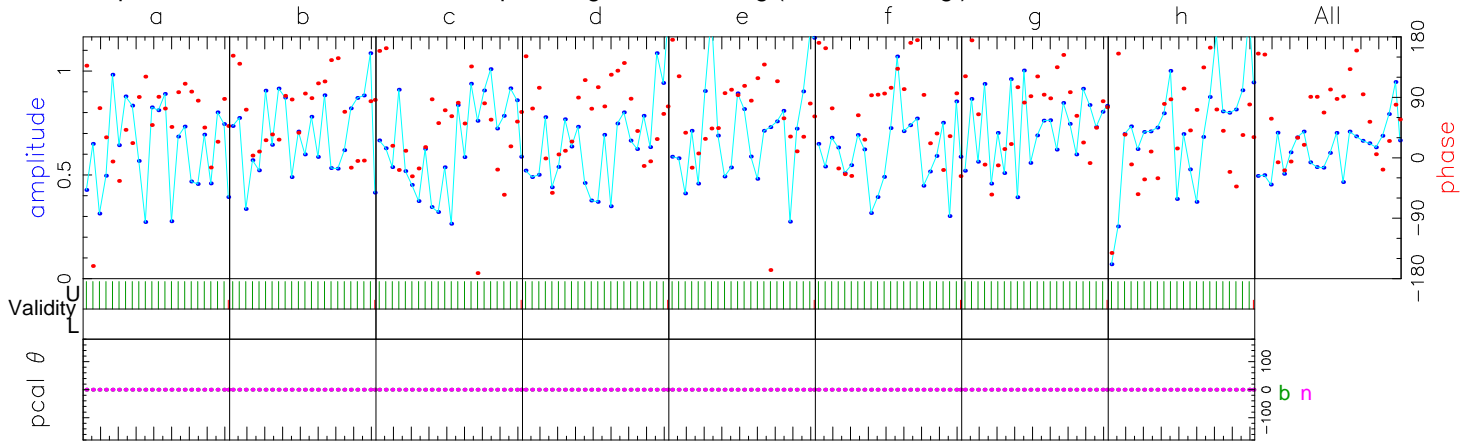
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bm.W.72.11M07A



Fringe quality 9
SNR 23.3
Int time 479.980
Amp 0.388
Phase 62.5
PFD 0.0e+00
Delays (us)
SBD 0.000141
MBD 0.000076
Fringe rate (Hz) 0.006361
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132150
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.44242211453E+03			3.44242203870E+03				7.58298E-05	+/- 4.7E-05
Sband delay (usec)		3.44242217945E+03			-1.8818197E+00				1.40750E-04	+/- 3.7E-04
Phase delay (usec)		3.44242204072E+03			-5.0000000E-07				2.01581E-06	+/- 1.6E-07
Delay rate (us/s)		3.71284798813E-01			3.71284724963E-01				7.38501E-08	+/- 5.7E-10
Total phase (deg)			211.6		-1.24291235218E-05				62.5	+/- 4.9
ph/seg (deg)	54.8	11.8								
amp/seg (%)	68.8	20.6								
ph/frq (deg)	14.2	7.0								
amp/frq (%)	14.6	12.2								
b: az 255.4 el 73.1 pa 59.5		n: az 287.0 el 53.1 pa 72.7			u,v (fr/asec) -2864.382 -318.043					simultaneous interpolator

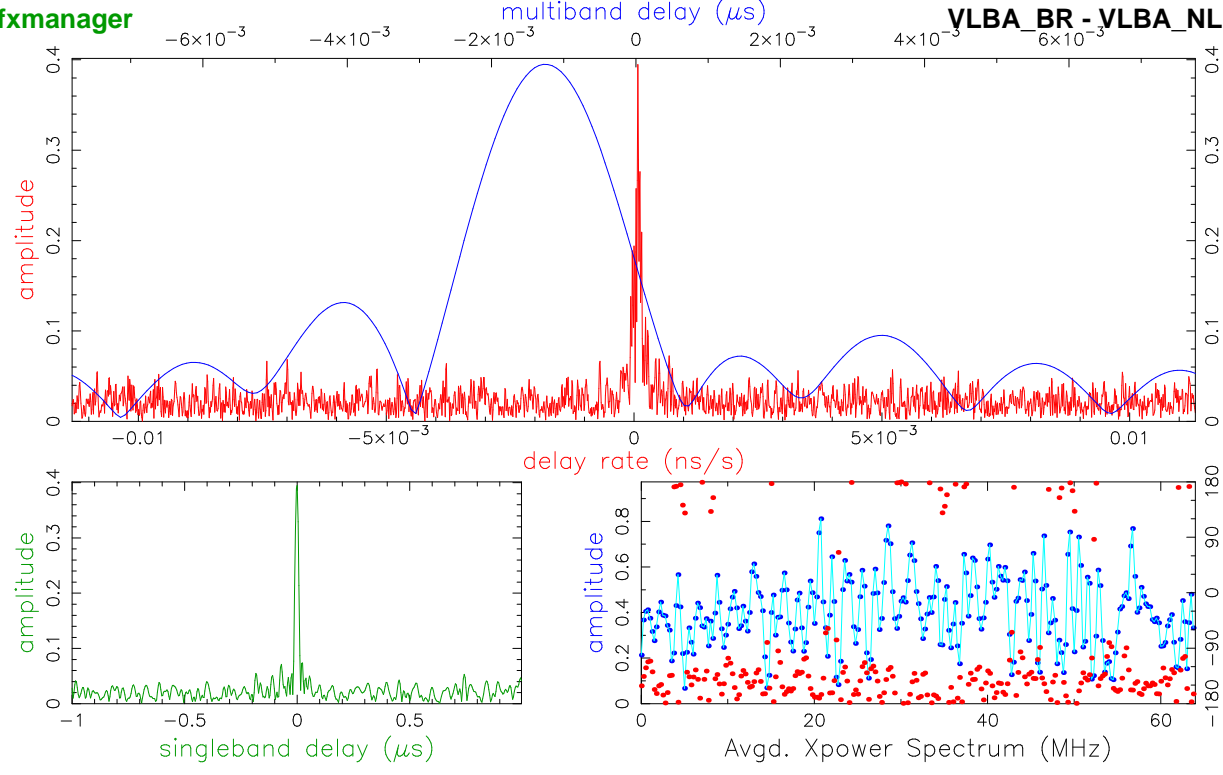
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn.W.21.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

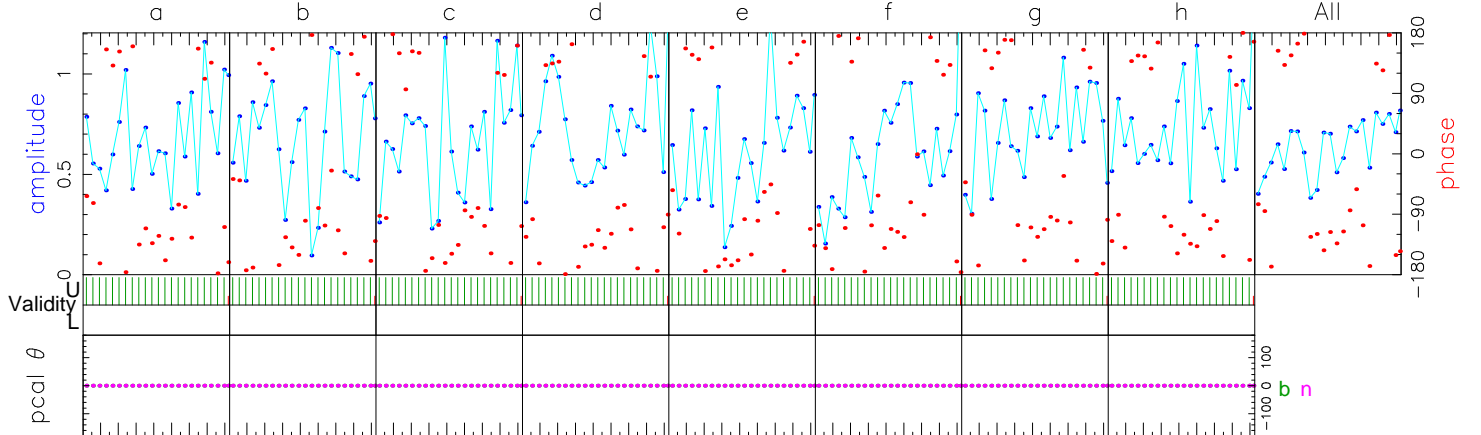
3C84.11M07A, No0101, bn

VLBA_BR - VLBA_NL, fgroup W, pol LL



Fringe quality 7
 SNR 24.1
 Int time 479.980
 Amp 0.402
 Phase -154.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.001664
 MBD -0.001292
 Fringe rate (Hz) 0.006363
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132147
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

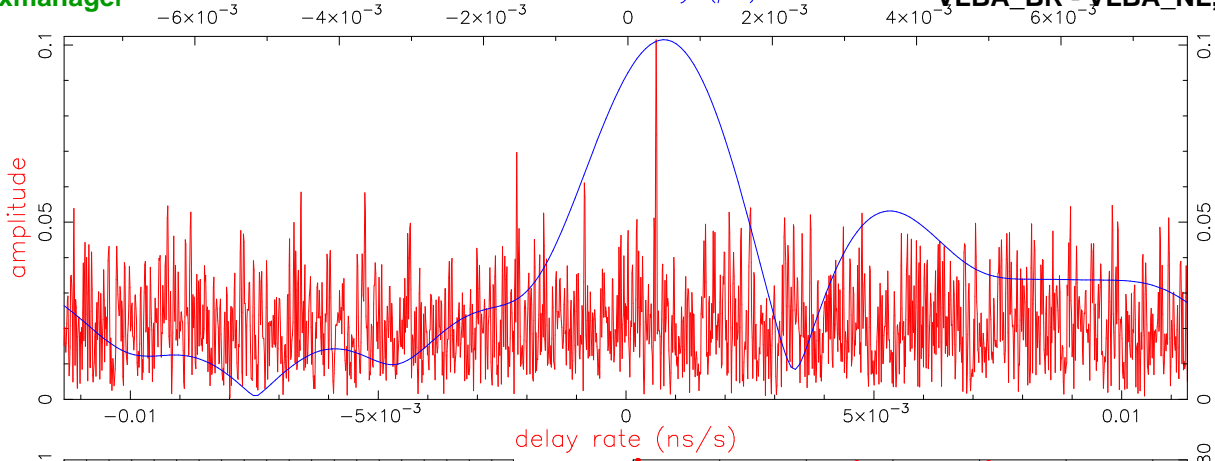
Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



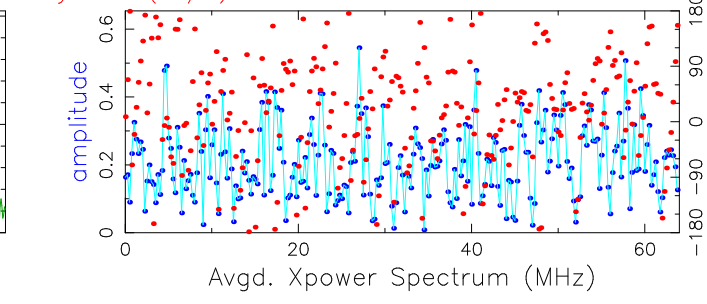
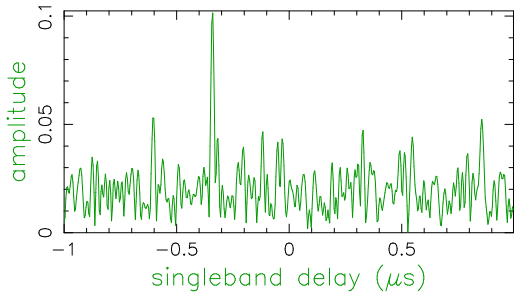
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.3	-150.8	-169.7	-164.0	-150.2	-145.4	-150.4	-153.3	Phase	-154.8
	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.5	Ampl.	0.4
	256.5	256.5	256.6	256.5	257.0	257.0	256.6	256.1	Sbd box	256.6
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.44242074653E+03		Apriori delay (usec)		3.44242203870E+03		Resid mbdelay (usec)		-1.29217E-03	+/- 4.5E-05
Sband delay (usec)	3.44242037420E+03		Apriori clock (usec)		-1.8818197E+00		Resid sbdelay (usec)		-1.66450E-03	+/- 3.6E-04
Phase delay (usec)	3.44242203371E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-4.99225E-06	+/- 1.5E-07
Delay rate (us/s)	3.71284798830E-01		Apriori rate (us/s)		3.71284724963E-01		Resid rate (us/s)		7.38671E-08	+/- 5.5E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.24291235218E-05		Resid phase (deg)		-154.8	+/- 4.8

ph/seg (deg) 52.5 11.4 Search (2048X32) 0.373 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.4 19.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.8 6.7 Inc. seg. avg. 0.618 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 13.7 11.8 Inc. frq. avg. 0.396 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 255.4 el 73.1 pa 59.5 n: az 287.0 el 53.1 pa 72.7 u,v (fr/asec) -2864.382 -318.043 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn.W.3.11M07A

multiband delay (μ s)

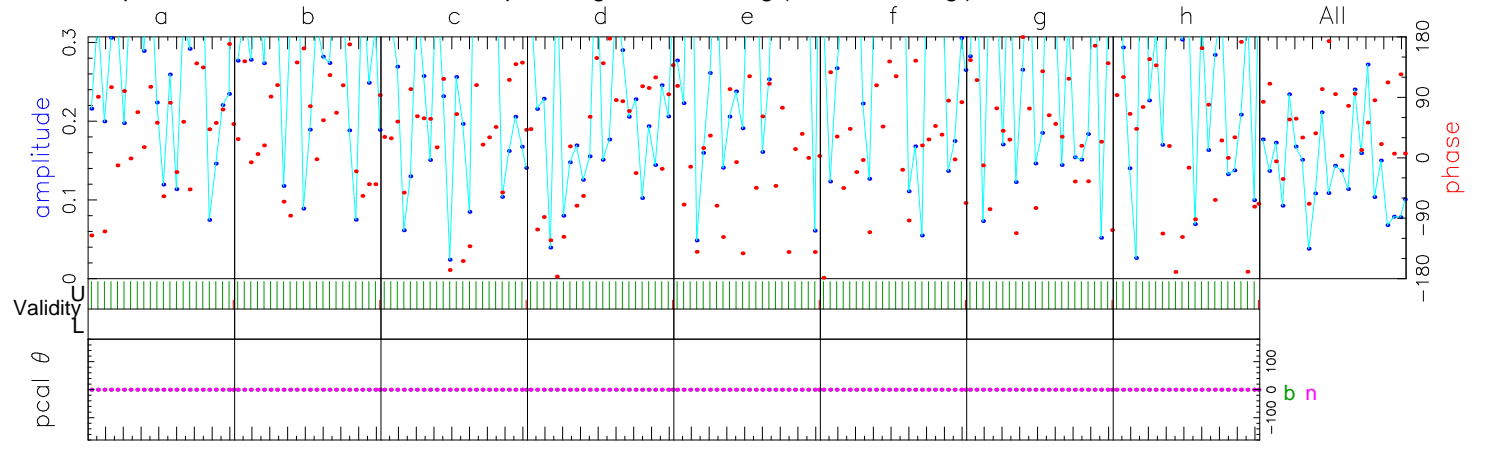


Fringe quality 0
SNR 6.1
Int time 479.980
Amp 0.102
Phase 59.2
PFD 2.1e-01
Delays (us)
SBD -0.340939
MBD 0.000469
Fringe rate (Hz) 0.052329
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c202b
Yr:day 16383
Start 2021:023:071100
Stop 2021:023:132154
FRT 2020:247:085004
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
72.3	56.2	56.7	101.5	3.2	40.5	83.1	106.0	106.0	Phase	59.2
0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
477.7	383.3	170.0	99.0	491.2	99.8	271.6	262.8	262.8	Sbd box	169.7
U/L 938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n 0:0	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	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
n W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Tracks	
Group delay (usec)(sbd)	3.44207875791E+03		Apriori delay (usec)	3.44242203870E+03		Resid mbdelay (usec)	4.69203E-04		+/-	1.8E-04
Sband delay (usec)	3.44208109920E+03		Apriori clock (usec)	-1.8818197E+00		Resid sbdelay (usec)	-3.40939E-01		+/-	1.4E-03
Phase delay (usec)	3.44242204061E+03		Apriori clockrate (us/s)	-5.0000000E-07		Resid phdelay (usec)	1.91004E-06		+/-	6.0E-07
Delay rate (us/s)	3.71285332450E-01		Apriori rate (us/s)	3.71284724963E-01		Resid rate (us/s)	6.07487E-07		+/-	2.2E-09
Total phase (deg)		208.3	Apriori accel (us/s/s)	-1.24291235218E-05		Resid phase (deg)	59.2		+/-	18.7

ph/seg (deg) 55.8 44.8 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.9 78.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 37.0 26.4 Inc. seg. avg. 0.109 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 41.2 46.1 Inc. frq. avg. 0.104 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 255.4 el 73.1 pa 59.5 n: az 287.0 el 53.1 pa 72.7 u,v (fr/asec) -2864.382 -318.043 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn.W.40.11M07A

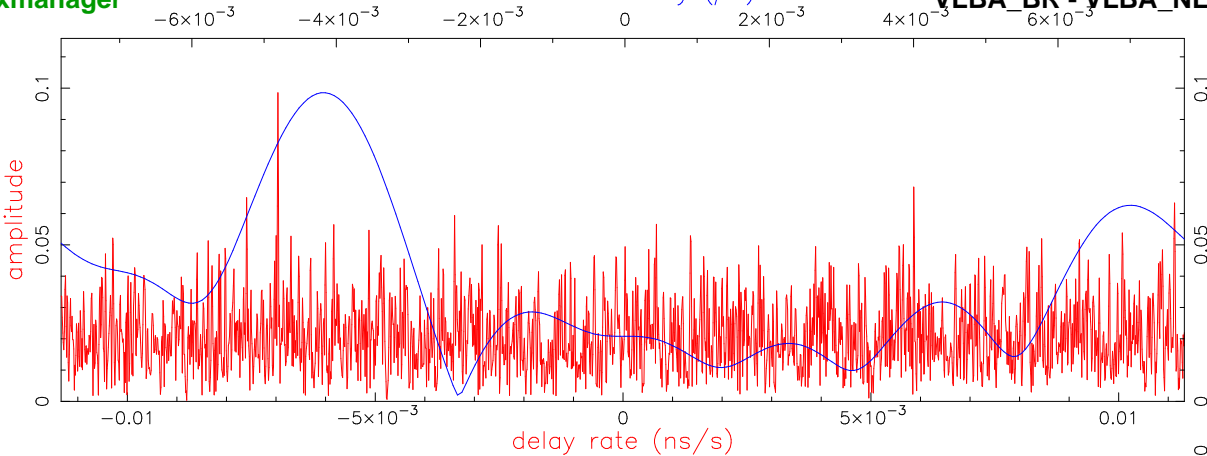
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bn

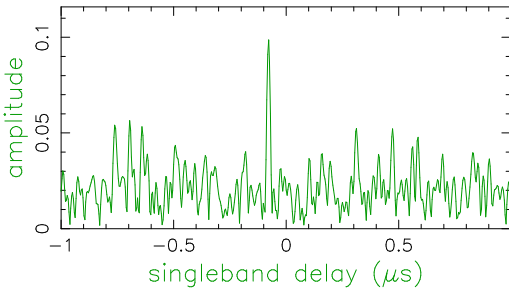
VLBA_BR - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)

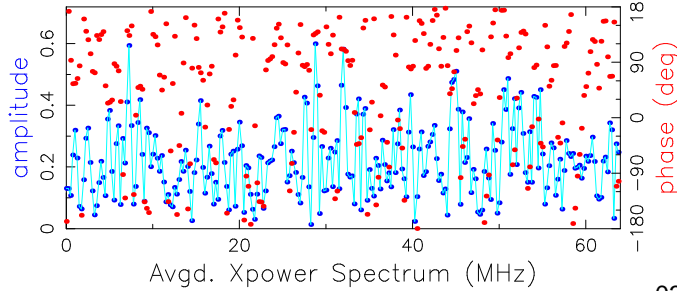


Fringe quality 0

SNR 5.9
 Int time 479.980
 Amp 0.116
 Phase -25.6
 PFD 5.8e-01
 Delays (us)
 SBD -0.078548
 MBD -0.004192
 Fringe rate (Hz)
 -0.601015
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

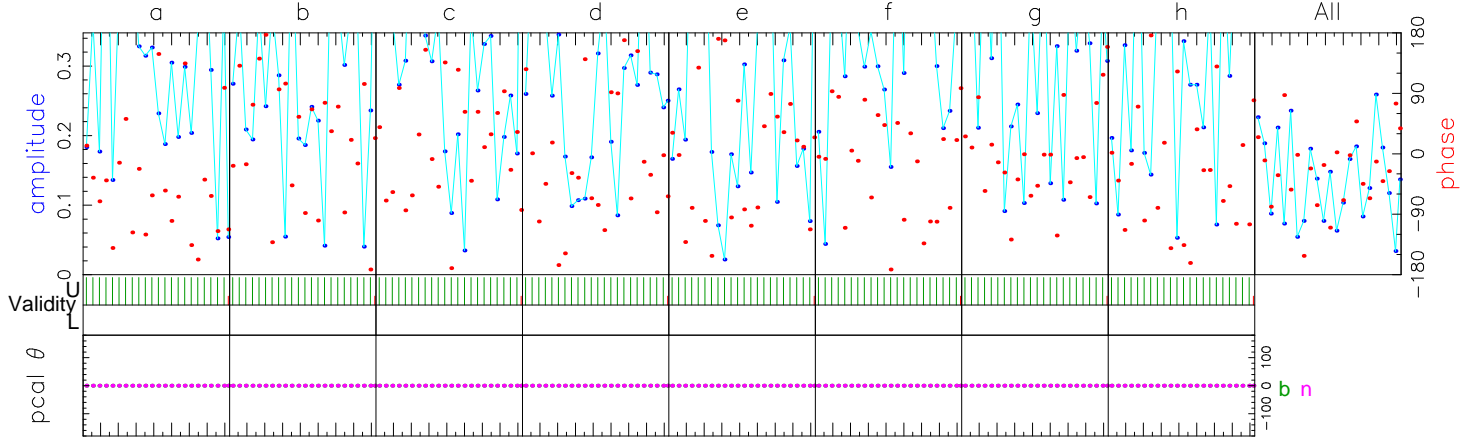


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132158
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



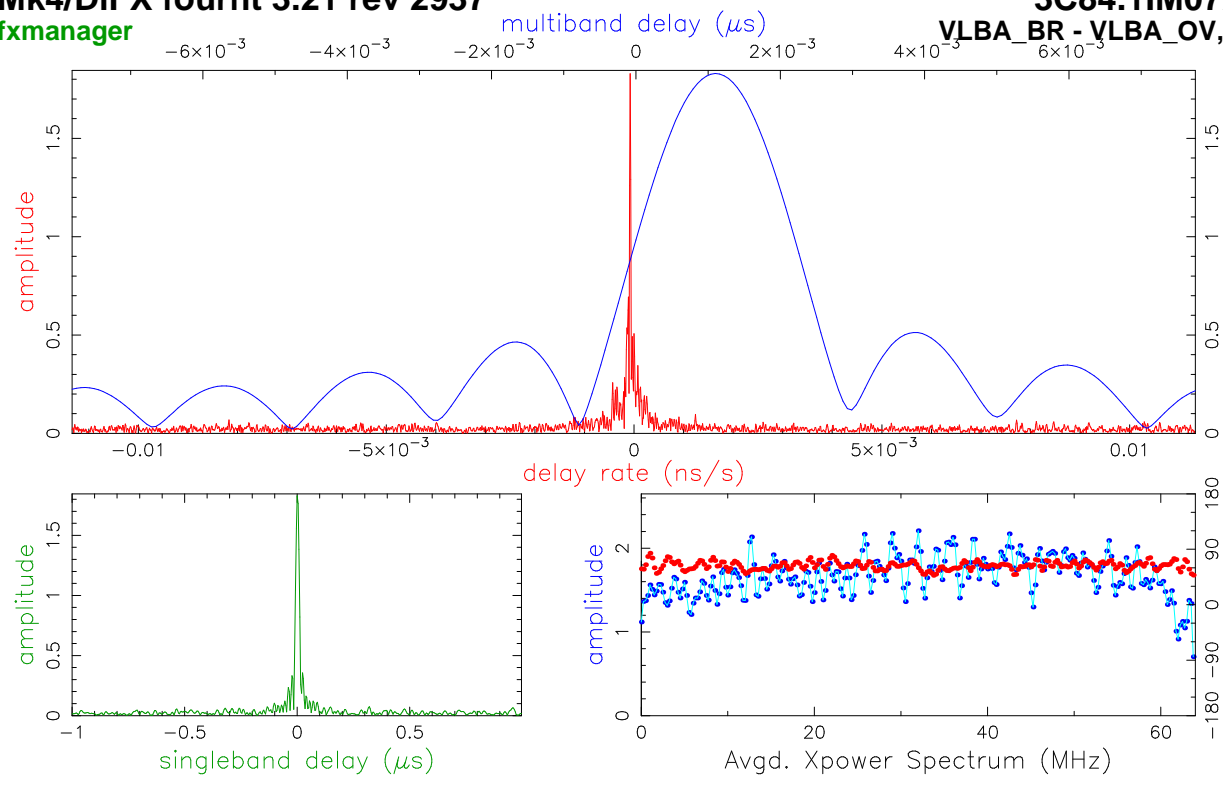
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.5	32.4	-5.8	-60.7	-20.0	7.9	-16.9	-66.2	Phase	-25.6
	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	430.7	500.2	83.1	201.5	362.1	309.7	416.3	132.4	Sbd box	236.9
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.44233972202E+03	Apriori delay (usec)	3.44242203870E+03	Resid mbdelay (usec)	-4.19168E-03	+/-	1.8E-04
Sband delay (usec)	3.44234349070E+03	Apriori clock (usec)	-1.8818197E+00	Resid sbdelay (usec)	-7.85480E-02	+/-	1.5E-03
Phase delay (usec)	3.44242203788E+03	Apriori clockrate (us/s)	-5.0000000E-07	Resid phdelay (usec)	-8.25471E-07	+/-	6.3E-07
Delay rate (us/s)	3.7127747777E-01	Apriori rate (us/s)	3.71284724963E-01	Resid rate (us/s)	-6.97719E-06	+/-	2.3E-09
Total phase (deg)	123.5	Apriori accel (us/s/s)	-1.24291235218E-05	Resid phase (deg)	-25.6	+/-	19.4

ph/seg (deg)	55.2	Theor.	46.5	Amplitude	0.116 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.0		81.1	Search (2048X32)	0.095	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	39.0		27.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.5		47.8	Inc. seg. avg.	0.121	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.122	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 255.4 el 73.1 pa 59.5 n: az 287.0 el 53.1 pa 72.7 u,v (fr/asec) -2864.382 -318.043 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bn.W.59.11M07A

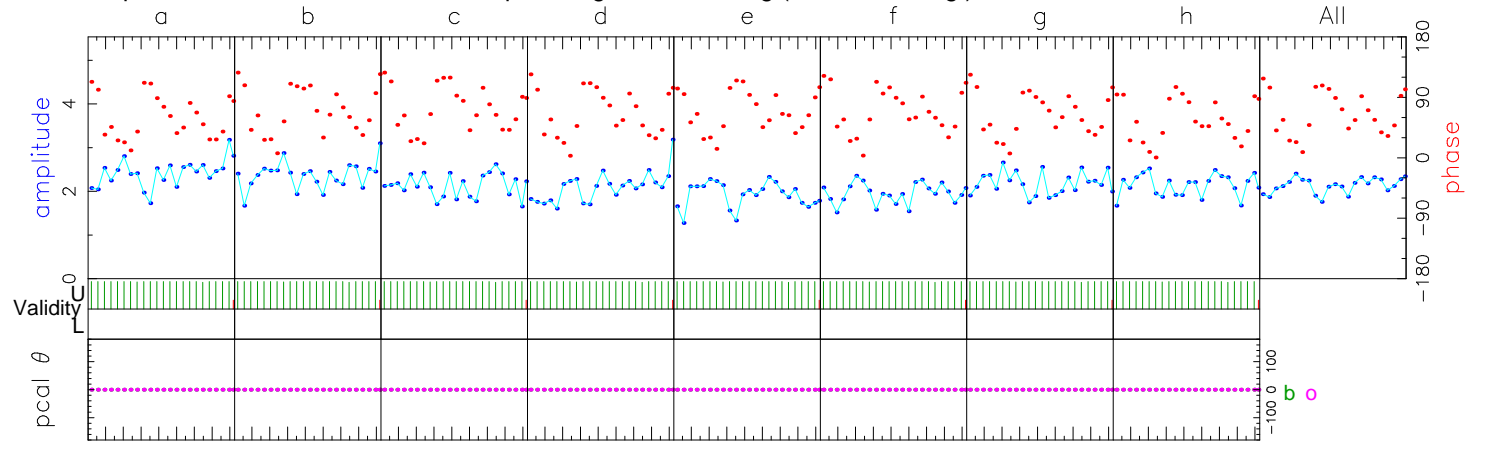


Fringe quality 7

SNR 110.5
Int time 479.034
Amp 1.845
Phase 64.3
PFD 0.0e+00
Delays (us)
SBD 0.001203
MBD 0.001131
Fringe rate (Hz) -0.006401
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132151
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0			
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)	57.9	68.7	72.0	65.3	65.9	67.7	62.2	56.2	1.13064E-03	+/- 9.8E-06	
Sband delay (usec)	2.1	2.0	1.8	1.7	1.7	1.7	1.9	1.9	1.20300E-03	+/- 7.8E-05	
Phase delay (usec)	257.4	257.4	257.4	257.2	257.4	257.2	257.2	257.4	2.07494E-06	+/- 3.3E-08	
Delay rate (us/s)	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Resid rate (us/s)	-7.43121E-08	+/- 1.2E-10
Total phase (deg)			321.5						Resid phase (deg)	64.3	+/- 1.0

ph/seg (deg) 31.3 2.5
amp/seg (%) 17.8 4.3
ph/frq (deg) 5.8 1.5
amp/frq (%) 7.3 2.6

RMS Theor. Amplitude 1.845 +/- 0.017
Search (2048X32) 1.757
Interp. 0.000
Inc. seg. avg. 2.126
Inc. frq. avg. 1.836

Group delay (usec)(sbd) 1.85376516225E+02
Sband delay (usec) 1.85376588586E+02
Phase delay (usec) 1.85375387661E+02
Delay rate (us/s) 7.92365482331E-02
Total phase (deg) 321.5

Apriori delay (usec) 1.85375385586E+02
Apriori clock (usec) -2.3109035E+01
Apriori clockrate (us/s) 9.9999998E-08
Apriori rate (us/s) 7.92366225452E-02
Apriori accel (us/s/s) 9.34786126021E-06

Resid mbdelay (usec) 1.13064E-03
Resid sbdelay (usec) 1.20300E-03
Resid phdelay (usec) 2.07494E-06
Resid rate (us/s) -7.43121E-08
Resid phase (deg) 64.3

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 255.4 el 73.1 pa 59.5
o: az 290.8 el 71.4 pa 94.8
u,v (fr/asec) -592.698 1582.547

simultaneous interpolator

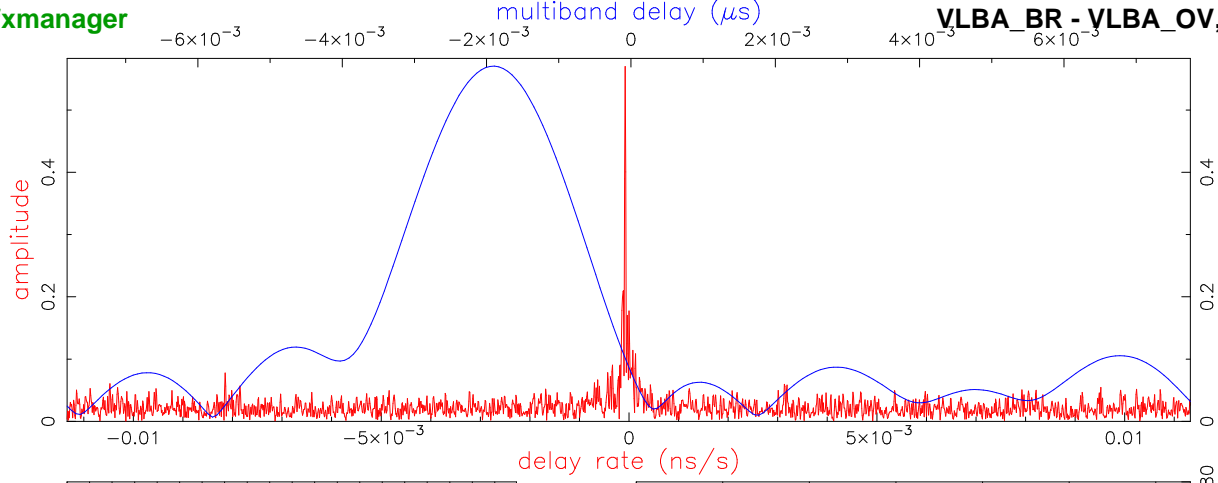
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo.W.23.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

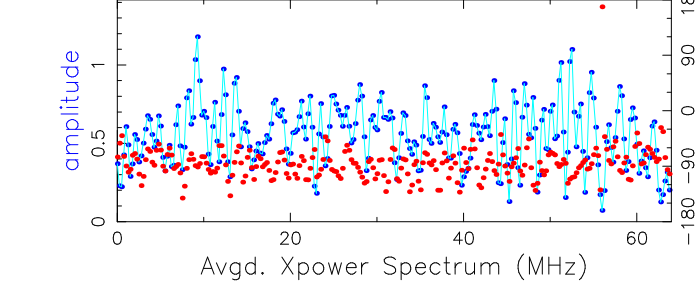
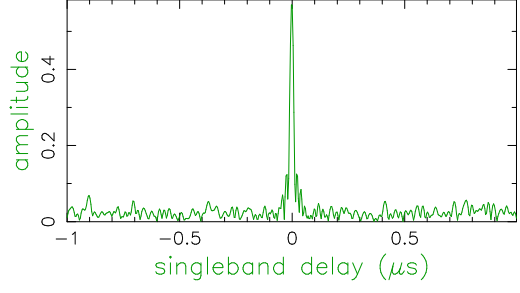
3C84.11M07A, No0101, bo

VLBA_BR - VLBA_OV, fgroup W, pol LR



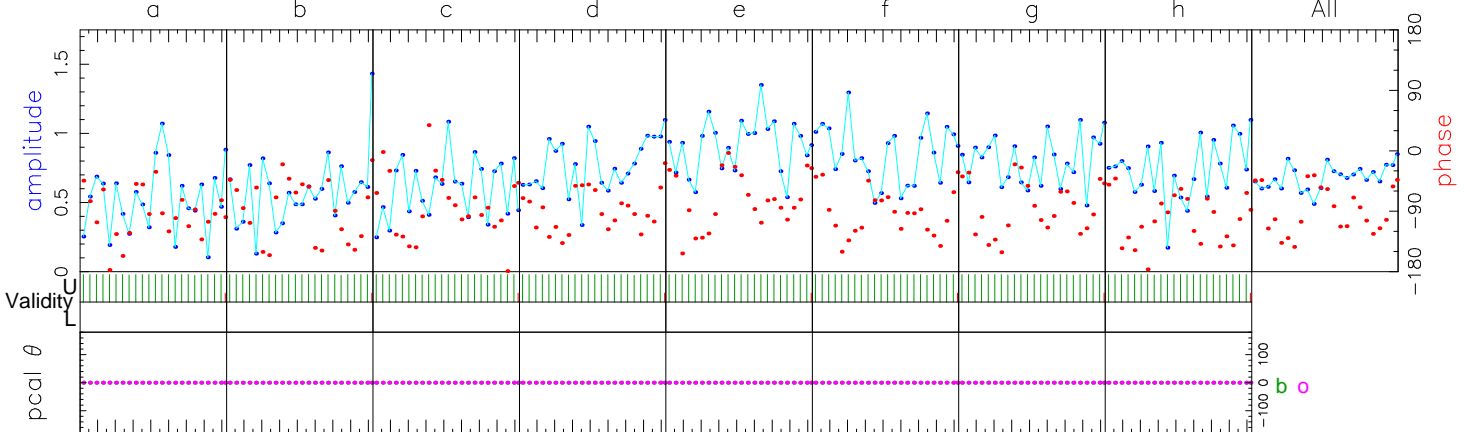
Fringe quality 7

SNR 34.9
 Int time 479.034
 Amp 0.583
 Phase -90.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.002004
 MBD -0.001852
 Fringe rate (Hz)
 -0.006382
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132154
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.85373533663E+02			1.85375385586E+02					
Sband delay (usec)		1.85373381586E+02			-2.3109035E+01					
Phase delay (usec)		1.85375382686E+02			9.9999998E-08					
Delay rate (us/s)		7.92365484549E-02			7.92366225452E-02					
Total phase (deg)			167.2		9.34786126021E-06					
ph/seg (deg)	33.8	7.9								
amp/seg (%)	21.8	13.7								
ph/frq (deg)	9.2	4.6								
amp/frq (%)	20.8	8.1								

b: az 255.4 el 73.1 pa 59.5 o: az 290.8 el 71.4 pa 94.8 u,v (fr/asec) -592.698 1582.547 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo.W.41.11M07A

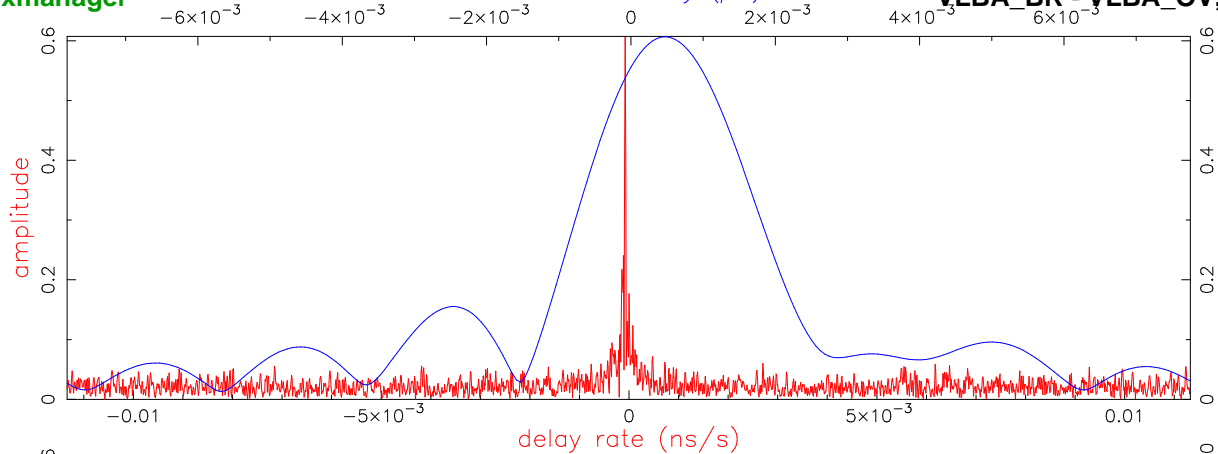
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bo

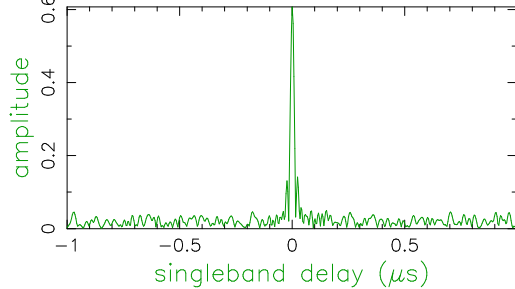
VLBA_BR - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)

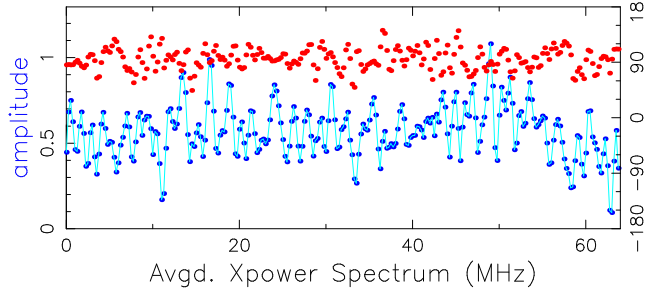


Fringe quality 7

SNR 36.3
 Int time 479.034
 Amp 0.607
 Phase 93.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.000412
 MBD 0.000488
 Fringe rate (Hz)
 -0.006419
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

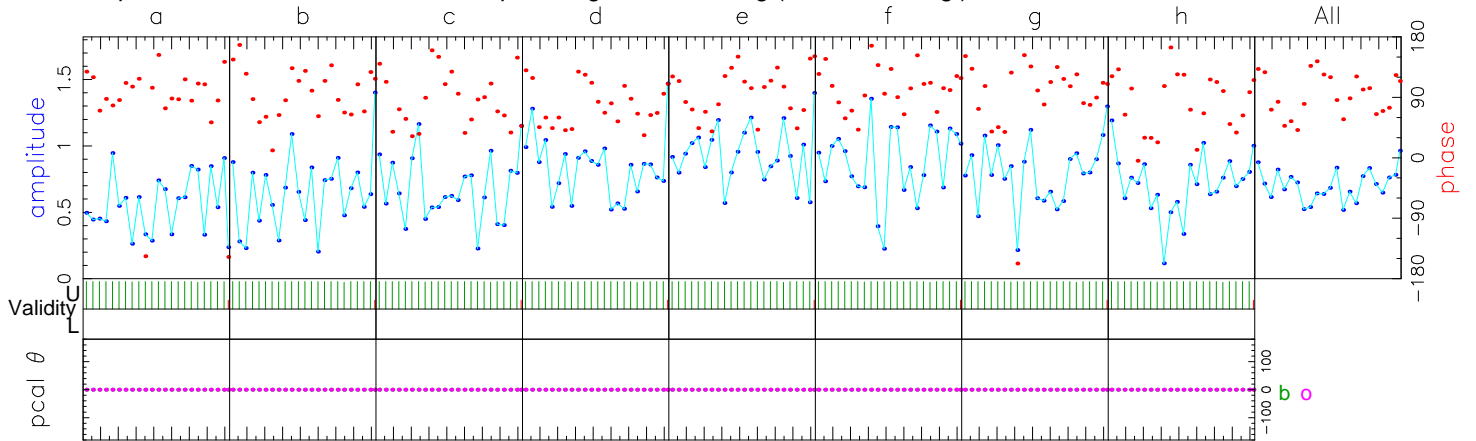


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132159
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:o	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 1.85375873757E+02 Apriori delay (usec) 1.85375385586E+02 Resid mbdelay (usec) 4.88170E-04 +/- 3.0E-05
 Sband delay (usec) 1.85375797336E+02 Apriori clock (usec) -2.3109035E+01 Resid sbdelay (usec) 4.11750E-04 +/- 2.4E-04
 Phase delay (usec) 1.85375388613E+02 Apriori clockrate (us/s) 9.9999998E-08 Resid phdelay (usec) 3.02693E-06 +/- 1.0E-07
 Delay rate (us/s) 7.92365480283E-02 Apriori rate (us/s) 7.92366225452E-02 Resid rate (us/s) -7.45169E-08 +/- 3.7E-10
 Total phase (deg) 351.1 Apriori accel (us/s/s) 9.34786126021E-06 Resid phase (deg) 93.9 +/- 3.2

RMS Theor. Amplitude 0.607 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 30.6 7.6 Search (2048X32) 0.588 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 23.3 13.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 12.1 4.5 Inc. seg. avg. 0.694 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 18.1 7.8 Inc. frq. avg. 0.615 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 255.4 el 73.1 pa 59.5 o: az 290.8 el 71.4 pa 94.8 u,v (fr/asec) -592.698 1582.547 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo.W.61.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

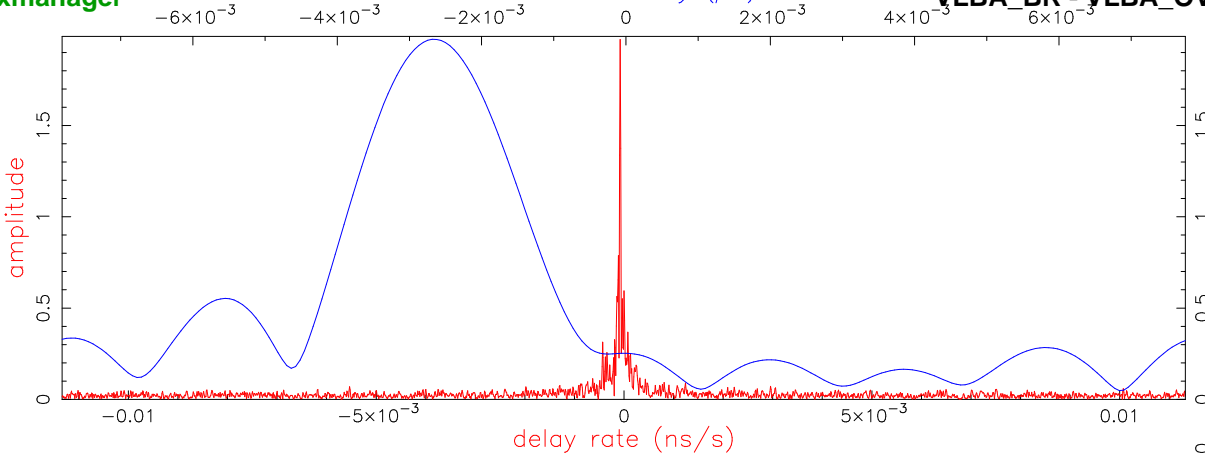
fxmanager

3C84.11M07A, No0101, bo

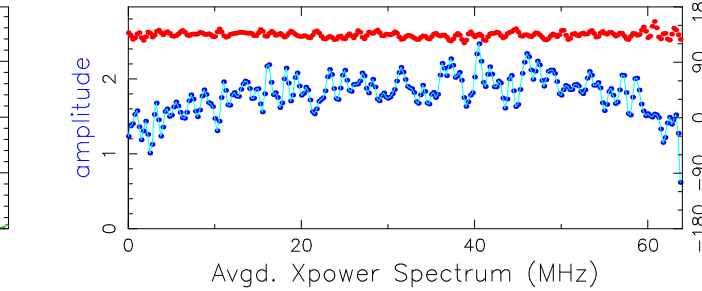
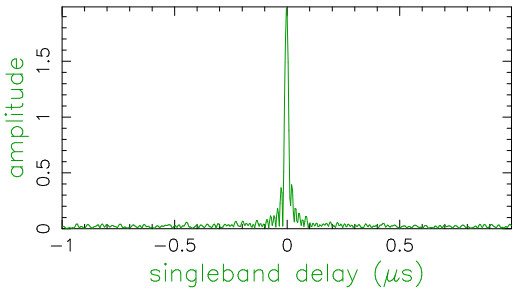
VLBA_BR - VLBA_OV, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 6

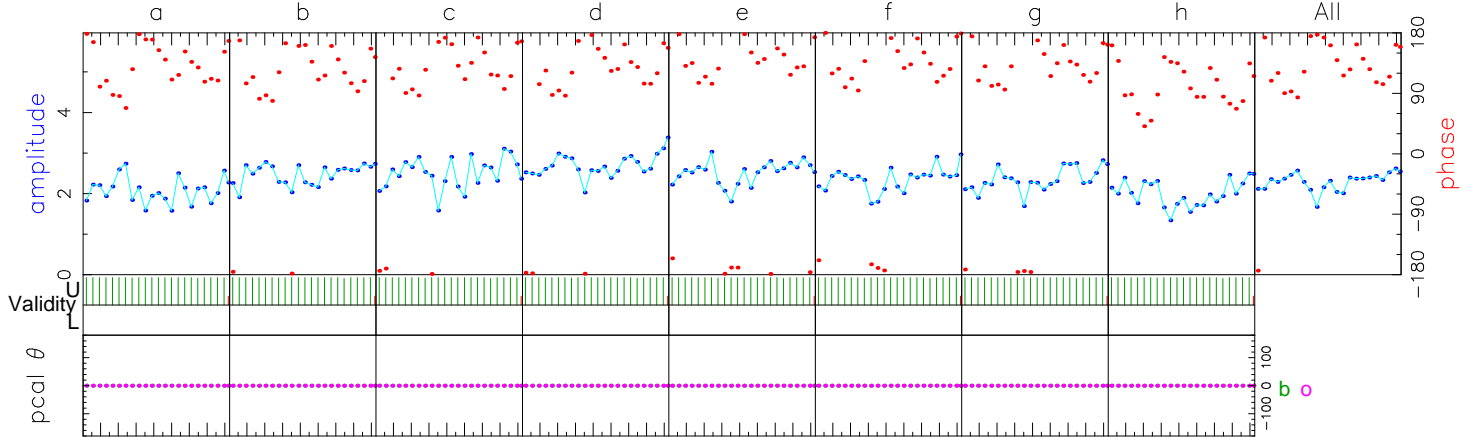


SNR 119.0
Int time 479.034
Amp 1.988
Phase 133.3
PFD 0.0e+00
Delays (us)
SBD -0.002742
MBD -0.002623
Fringe rate (Hz)
-0.006367
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132147
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:o	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)	128.9	127.9	134.6	134.8	148.8	143.9	140.1	98.4		
Sband delay (usec)	1.8	2.1	2.1	2.3	2.2	2.0	2.0	1.7		
Phase delay (usec)	256.4	256.3	256.5	256.3	256.5	256.3	256.1	255.4		
Delay rate (us/s)										
Total phase (deg)			30.5							
Apriori delay (usec)		1.85372762319E+02			1.85375385586E+02					
Apriori clock (usec)		1.85372644086E+02			-2.3109035E+01					
Apriori clockrate (us/s)		1.85375389885E+02			9.9999998E-08					
Apriori rate (us/s)		7.92365486271E-02			7.92366225452E-02					
Apriori accel (us/s/s)					9.34786126021E-06					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										133.3 +/- 1.0
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		SampCntNorm: enabled 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							
nlags:	256		t_cohere infinite							

b: az 255.4 el 73.1 pa 59.5 o: az 290.8 el 71.4 pa 94.8 u,v (fr/asec) -592.698 1582.547 simultaneous interpolator

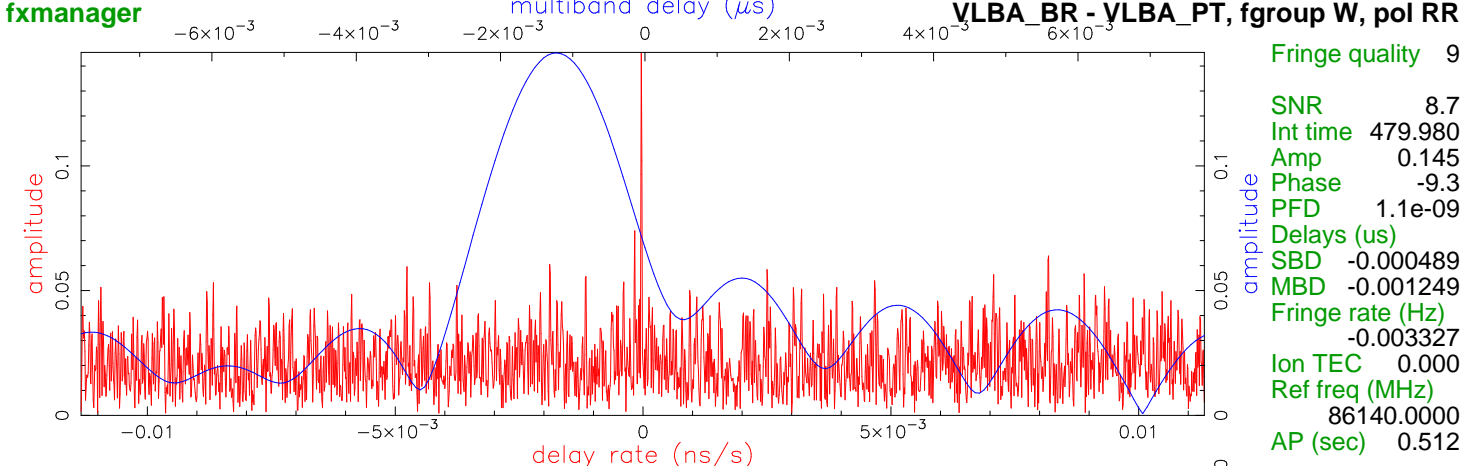
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bo.W.7.11M07A

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bp

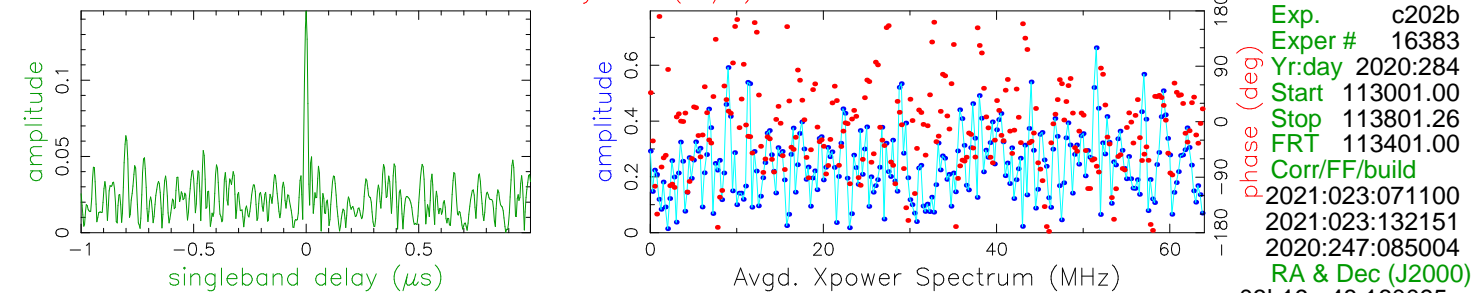
VLBA_BR - VLBA_PT, fgroup W, pol RR



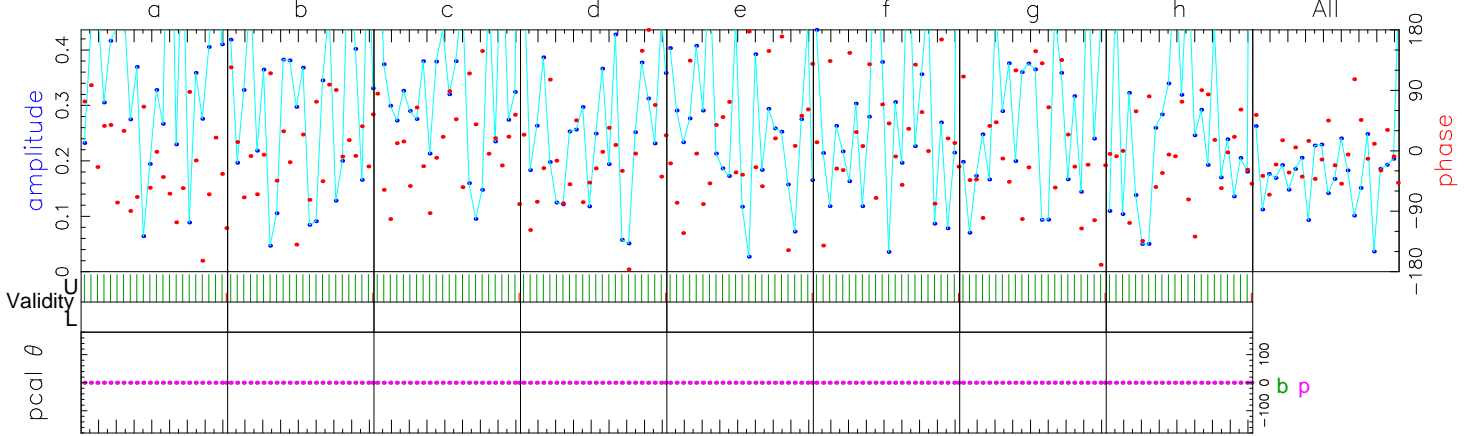
Fringe quality 9

SNR 8.7
 Int time 479.980
 Amp 0.145
 Phase -9.3
 PFD 1.1e-09
 Delays (us)
 SBD -0.000489
 MBD -0.001249
 Fringe rate (Hz)
 -0.003327
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132151
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	-30.6	2.2	3.8	-10.9	-11.6	12.6	-33.3	-13.9	Phase	-9.3
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	256.5	256.2	257.4	128.2	496.9	229.7	342.2	395.1	Sbd box	256.9
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.50477314258E+03		Apriori delay (usec)		1.50477439148E+03		Resid mbdelay (usec)		-1.24890E-03	+/- 1.2E-04
Sband delay (usec)	1.50477390273E+03		Apriori clock (usec)		-1.7928553E+00		Resid sbdelay (usec)		-4.88750E-04	+/- 9.9E-04
Phase delay (usec)	1.50477439118E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		-3.00084E-07	+/- 4.2E-07
Delay rate (us/s)	2.41504332678E-01		Apriori rate (us/s)		2.41504371303E-01		Resid rate (us/s)		-3.86249E-08	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		5.54395591833E-06		Resid phase (deg)		-9.3	+/- 13.1

ph/seg (deg) 40.1 31.5 Amplitude 0.145 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 49.4 55.0 Search (2048X32) 0.132 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.5 18.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.5 32.5 Inc. seg. avg. 0.156 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.143 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 255.4 el 73.1 pa 59.5 p: az 295.5 el 62.7 pa 93.6 u,v (fr/asec) -1841.905 1603.576 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bp..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bp.W.25.11M07A

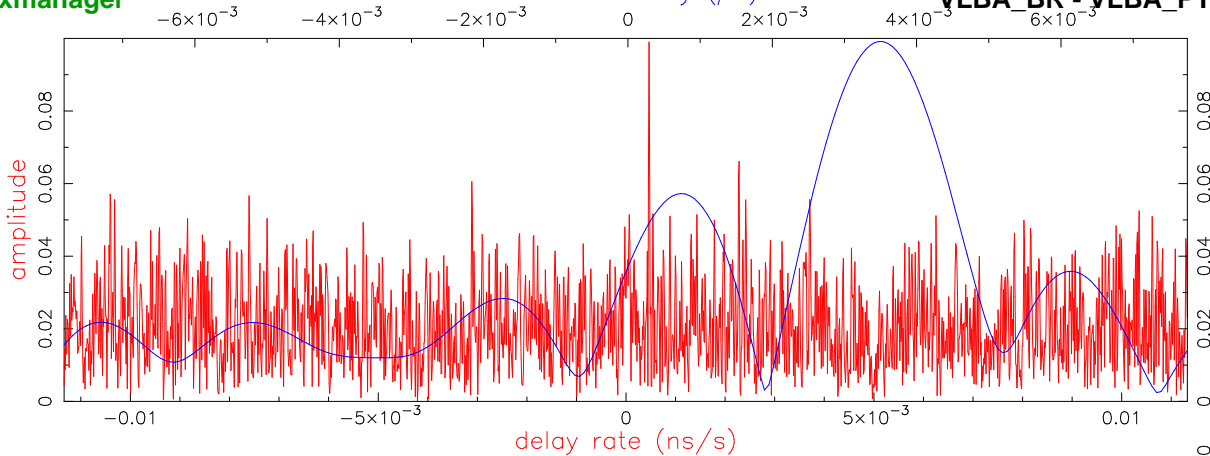
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bp

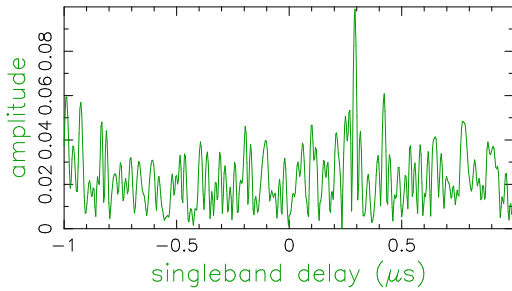
VLBA_BR - VLBA_PT, fgroup W, pol LR

multiband delay (μ s)

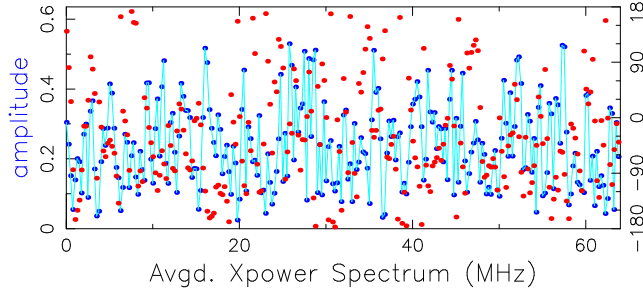


Fringe quality 0

SNR 6.0
 Int time 479.980
 Amp 0.100
 Phase 23.4
 PFD 4.3e-01
 Delays (us)
 SBD 0.291807
 MBD 0.003440
 Fringe rate (Hz)
 0.040112
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

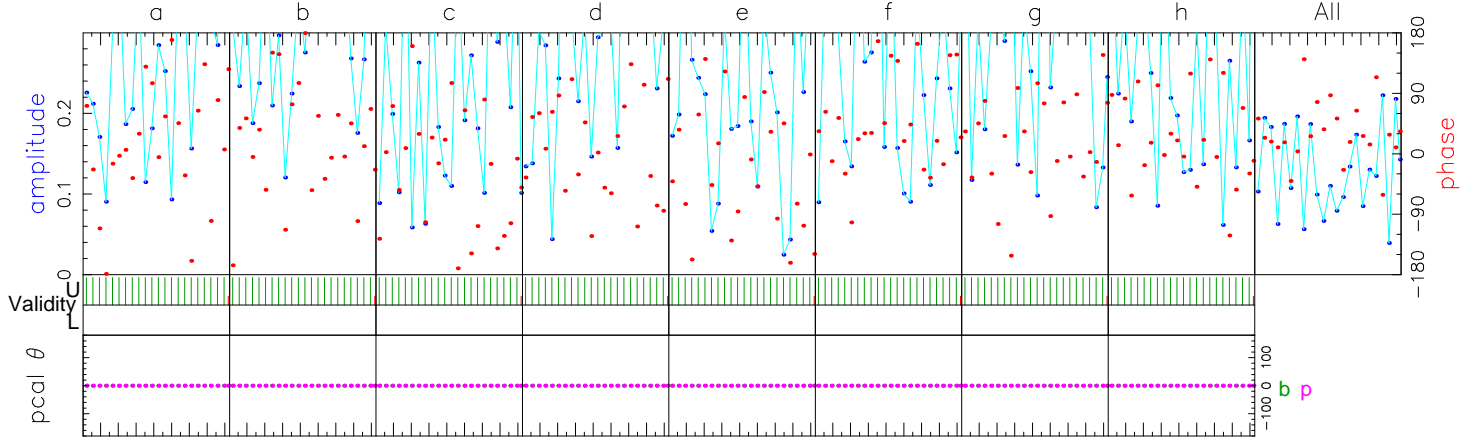


delay rate (ns/s)



Exp. c202b
 Yr:day 16383
 Start 2021:023:071100
 Stop 2021:023:132155
 FRT 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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
	32.3	25.1	-19.4	17.8	-29.4	46.2	31.1	26.9	Phase	23.4
	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	Ampl.	0.1
	511.6	174.8	240.4	100.0	347.3	254.8	451.9	244.0	Sbd box	331.7
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.50505908121E+03		Apriori delay (usec)		1.50477439148E+03		Resid mbdelay (usec)		3.43973E-03	+/- 1.8E-04
Sband delay (usec)	1.50506619848E+03		Apriori clock (usec)		-1.7928553E+00		Resid sbdelay (usec)		2.91807E-01	+/- 1.4E-03
Phase delay (usec)	1.50477439224E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		7.53394E-07	+/- 6.2E-07
Delay rate (us/s)	2.41504836958E-01		Apriori rate (us/s)		2.41504371303E-01		Resid rate (us/s)		4.65656E-07	+/- 2.2E-09
Total phase (deg)	53.1		Apriori accel (us/s/s)		5.54395591833E-06		Resid phase (deg)		23.4	+/- 19.1

ph/seg (deg) 45.8 45.9 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.4 80.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.8 27.1 Inc. seg. avg. 0.098 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.1 47.3 Inc. frq. avg. 0.094 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 255.4 el 73.1 pa 59.5 p: az 295.5 el 62.7 pa 93.6 u,v (fr/asec) -1841.905 1603.576 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bp..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bp.W.43.11M07A

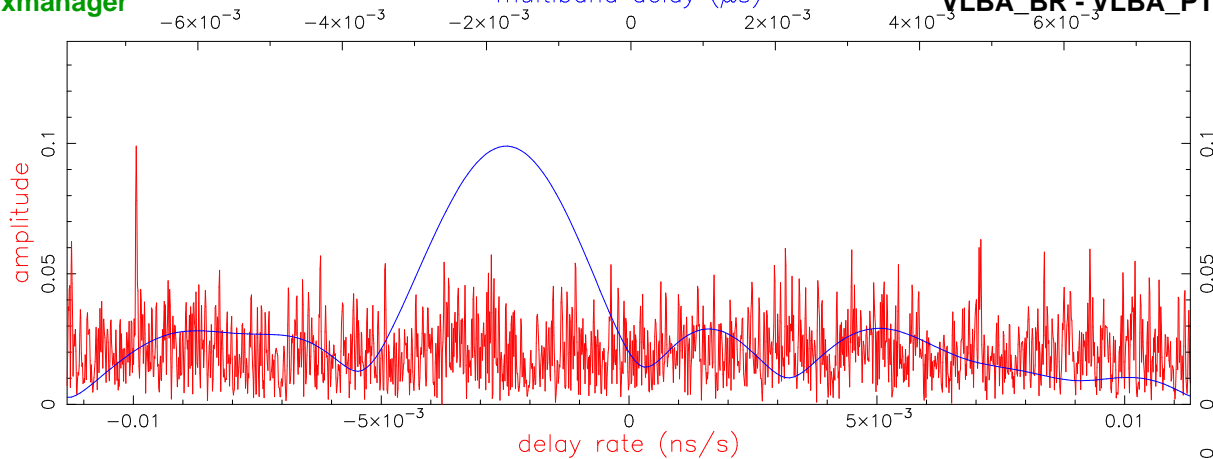
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bp

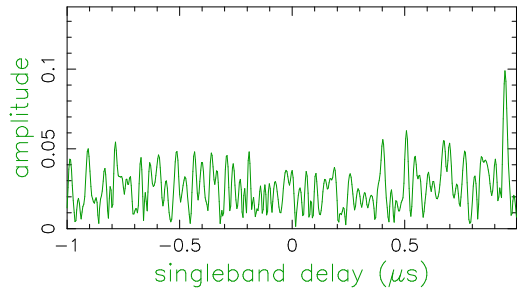
VLBA_BR - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

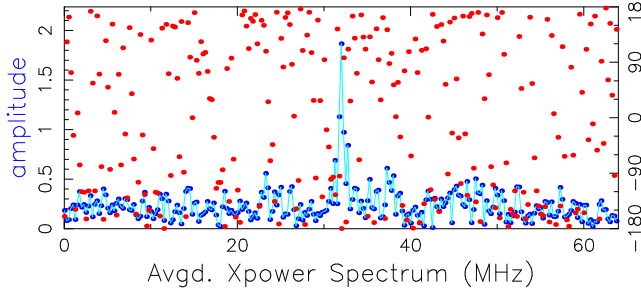


Fringe quality 0

SNR 5.9
 Int time 479.980
 Amp 0.139
 Phase -80.1
 PFD 5.5e-01
 Delays (us)
 SBD 0.945464
 MBD -0.001727
 Fringe rate (Hz)
 -0.857979
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

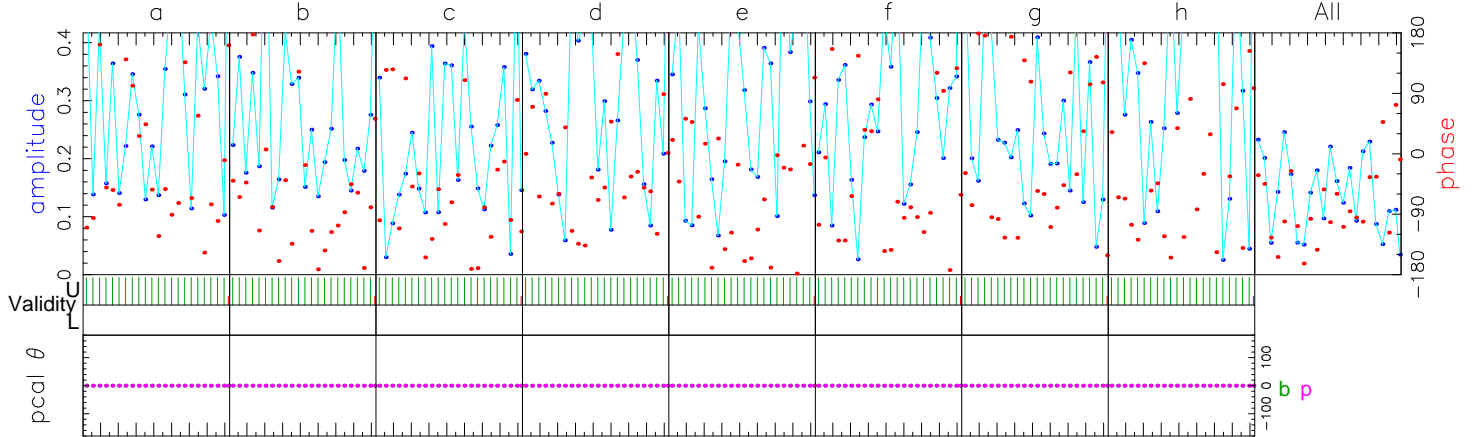


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132158
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



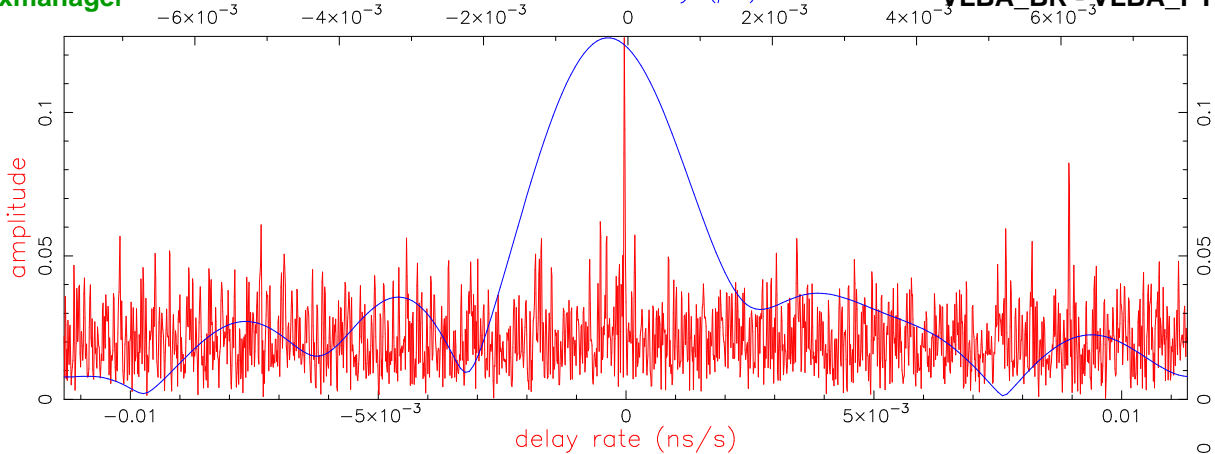
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	-89.6	-84.9	-91.6	-58.7	-51.1	-111.1	-93.5	-74.1		-80.1		
	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1		0.1		
	477.5	121.7	30.9	384.6	463.0	229.6	428.9	110.7		499.0		
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0				
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				
									Chan ids			
									Tracks			
									Tracks			
Group delay (usec)(sbd)	1.50572578965E+03		Apriori delay (usec)		1.50477439148E+03		Resid mbdelay (usec)		-1.72683E-03	+/- 1.8E-04		
Sband delay (usec)	1.50571985548E+03		Apriori clock (usec)		-1.7928553E+00		Resid sbdelay (usec)		9.45464E-01	+/- 1.5E-03		
Phase delay (usec)	1.50477438890E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		-2.58411E-06	+/- 6.2E-07		
Delay rate (us/s)	2.41494411015E-01		Apriori rate (us/s)		2.41504371303E-01		Resid rate (us/s)		-9.96029E-06	+/- 2.2E-09		
Total phase (deg)			Apriori accel (us/s/s)		5.54395591833E-06		Resid phase (deg)		-80.1	+/- 19.3		
	RMS	Theor.	Amplitude	0.139 +/- 0.023		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	58.4	46.4	Search (2048X32)	0.095		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	77.9	80.9	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	21.3	27.3	Inc. seg. avg.	0.151		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	27.2	47.7	Inc. frq. avg.	0.132		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 255.4 el 73.1 pa 59.5 p: az 295.5 el 62.7 pa 93.6 u,v (fr/asec) -1841.905 1603.576 simultaneous interpolator

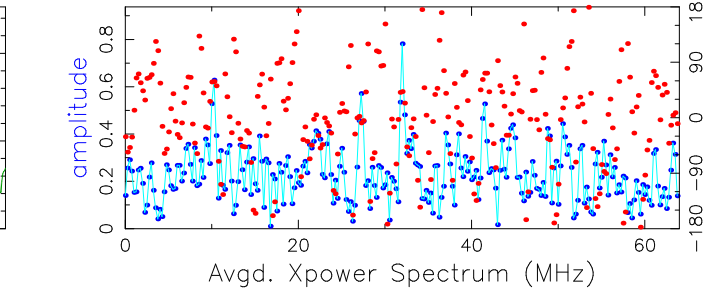
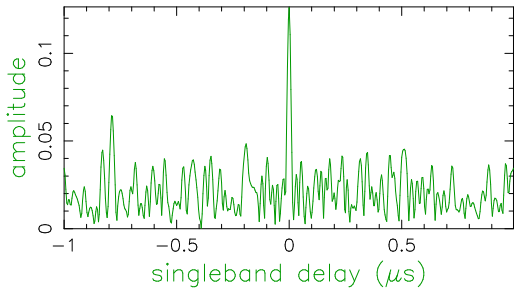
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bp..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bp.W.60.11M07A

multiband delay (μ s)

Fringe quality 9

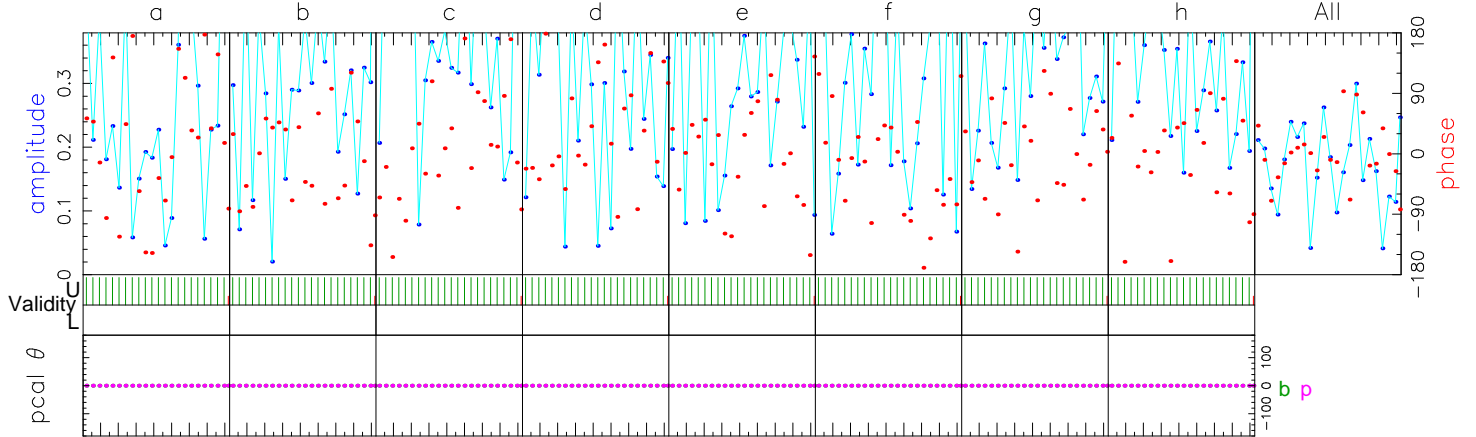


SNR 7.6
Int time 479.980
Amp 0.126
Phase 3.5
PFD 1.1e-05
Delays (us)
SBD -0.000792
MBD -0.000285
Fringe rate (Hz)
-0.002775
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132147
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	1.50477410680E+03				1.50477439148E+03					
Sband delay (usec)	1.50477359898E+03				-1.7928553E+00					
Phase delay (usec)	1.50477439160E+03				-3.9999997E-07					
Delay rate (us/s)	2.41504339086E-01				2.41504371303E-01					
Total phase (deg)			33.2		5.54395591833E-06					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode										
PC period (AP's)										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.126 +/- 0.017										
0.123										
0.000										
0.142										
0.124										
PC period (AP's)										
5, 5										
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 255.4 el 73.1 pa 59.5										
p: az 295.5 el 62.7 pa 93.6										
u,v (fr/asec) -1841.905 1603.576										
simultaneous interpolator										

Mk4/DiFX fourfit 3.21 rev 2937

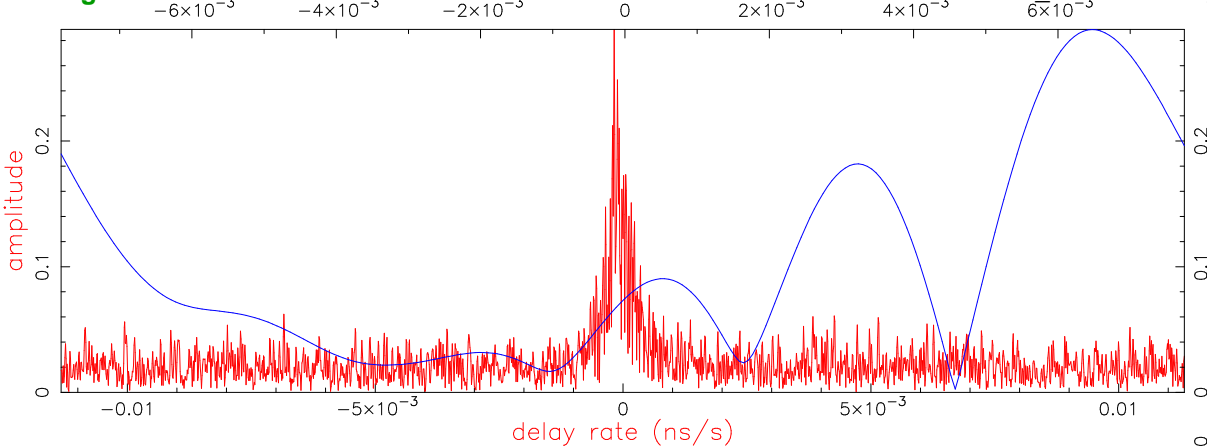
fxmanager

3C84.11M07A, No0101, bt

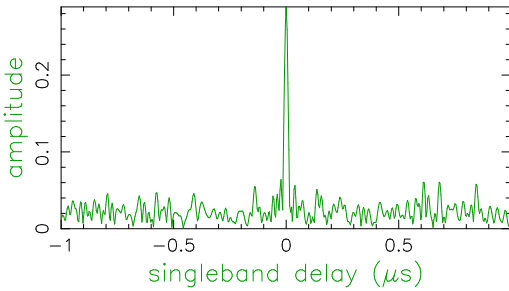
VLBA_BR - KVNTN, fgroup W, pol RR

multiband delay (μ s)

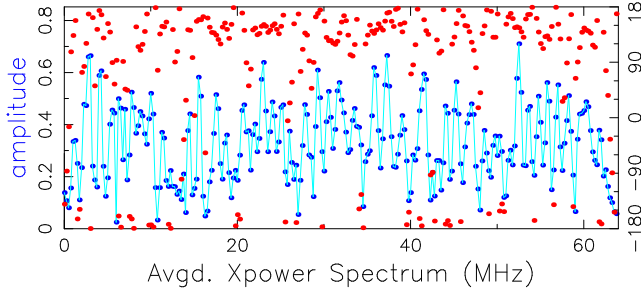
Fringe quality 8



SNR 17.3
 Int time 479.963
 Amp 0.289
 Phase 68.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.000328
 MBD 0.006462
 Fringe rate (Hz)
 -0.015555
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

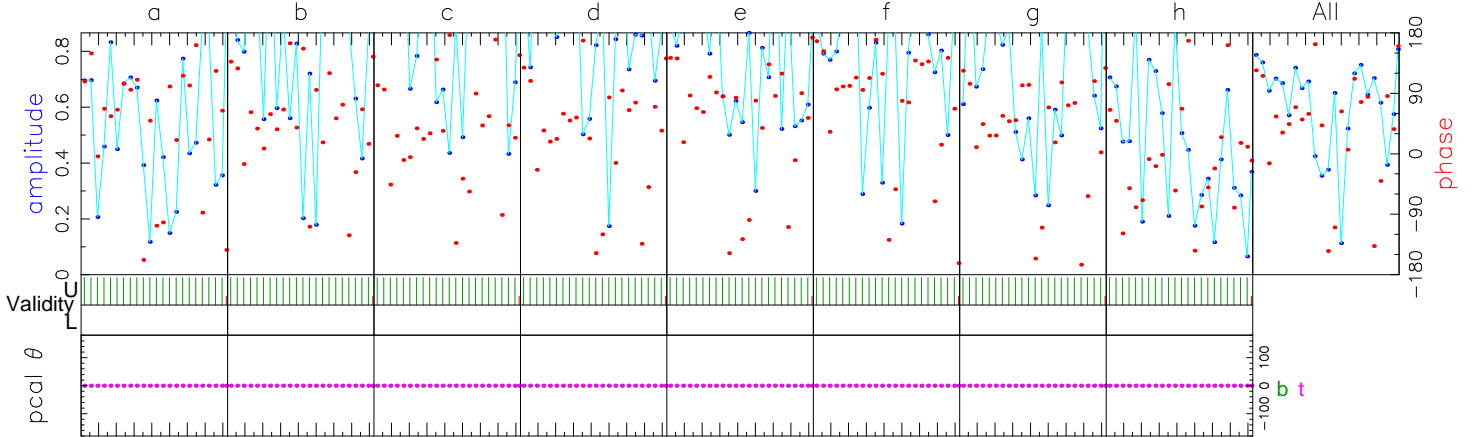


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132151
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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)		1.27326538734E+04				1.27326474114E+04			6.46200E-03	+/- 6.3E-05
Sband delay (usec)		1.27326470831E+04				-3.0869637E+00			-3.28250E-04	+/- 5.0E-04
Phase delay (usec)		1.27326474136E+04				-9.9999991E-08			2.21036E-06	+/- 2.1E-07
Delay rate (us/s)		-1.27483978240E+00				-1.27483960183E+00			-1.80577E-07	+/- 7.7E-10
Total phase (deg)			74.4			-5.30551804772E-05			68.5	+/- 6.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
simultaneous interpolator										

b: az 255.4 el 73.1 pa 59.5 t: az 52.8 el 20.2 pa -62.4 u,v (fr/asec) 9666.646 -2492.575
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt.W.24.11M07A

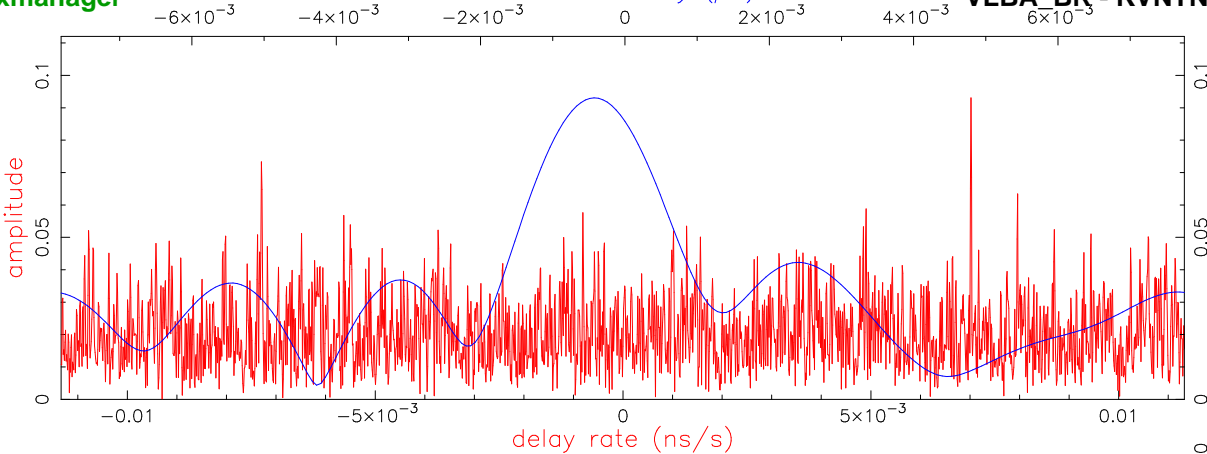
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1M07A, No0101, bt

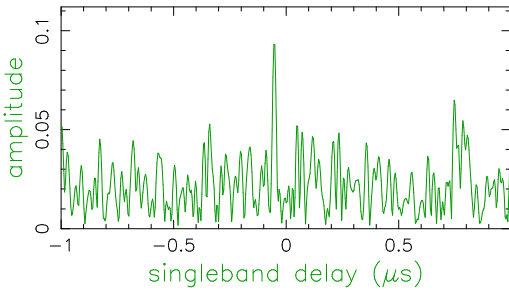
VLBA BR - KVNTN, fgroup W, pol LR

multiband delay (μ s)

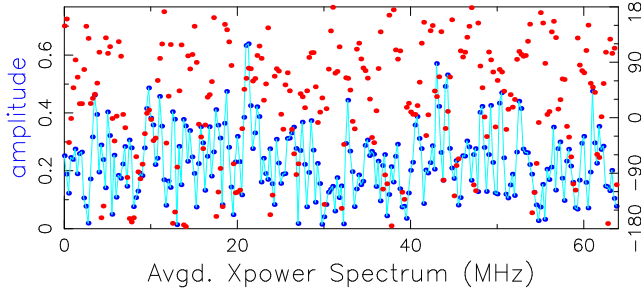


Fringe quality 0

SNR 5.7
 Int time 479.963
 Amp 0.112
 Phase -174.3
 PFD 9.5e-01
 Delays (us)
 SBD -0.052798
 MBD -0.000407
 Fringe rate (Hz)
 0.605358
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

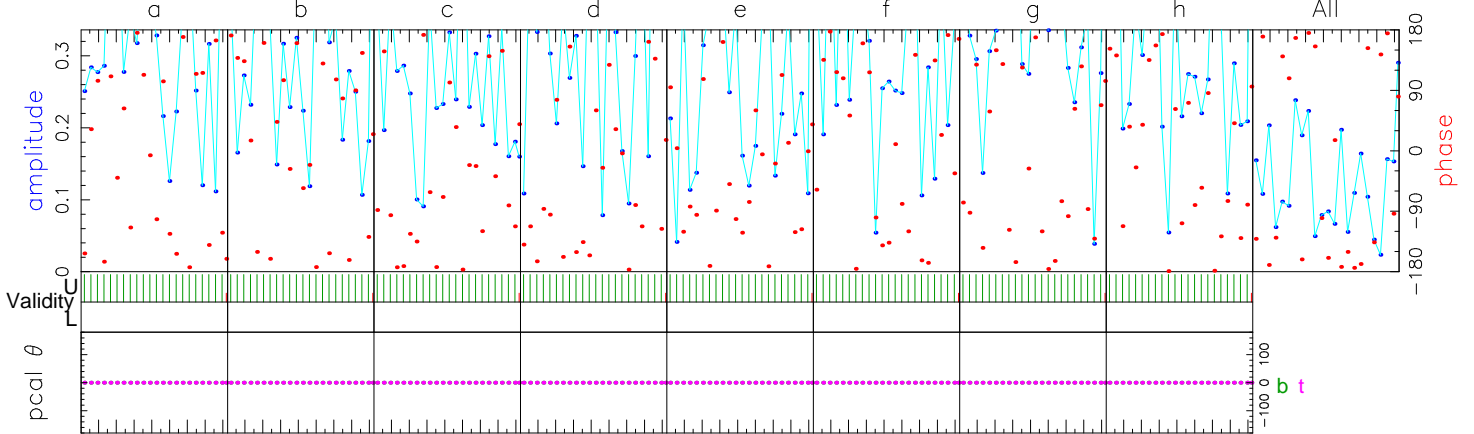


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132156
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0			
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		Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
Group delay (usec)(sbd)		1.27326001294E+04				1.27326474114E+04			Resid mbdelay (usec)	-4.06984E-04	+/- 1.9E-04
Sband delay (usec)		1.27325946129E+04				-3.0869637E+00			Resid sbdelay (usec)	-5.27985E-02	+/- 1.5E-03
Phase delay (usec)		1.27326474058E+04				-9.9999991E-08			Resid phdelay (usec)	-5.62181E-06	+/- 6.5E-07
Delay rate (us/s)		-1.27483257422E+00				-1.27483960183E+00			Resid rate (us/s)	7.02760E-06	+/- 2.3E-09
Total phase (deg)			-168.5			-5.30551804772E-05			Resid phase (deg)	-174.3	+/- 20.1
	RMS	Theor.	Amplitude	0.112 +/- 0.020					Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5
ph/seg (deg)	53.3	48.2	Search (2048X32)	0.090					Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000
amp/seg (%)	73.7	84.1	Interp.	0.000					Bits/sample: 2x2		SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	39.1	28.4	Inc. seg. avg.	0.107					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	30.7	49.6	Inc. frq. avg.	0.112					Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 255.4 el 73.1 pa 59.5 t: az 52.8 el 20.2 pa -62.4 u,v (fr/asec) 9666.646 -2492.575 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt.W.50.11M07A

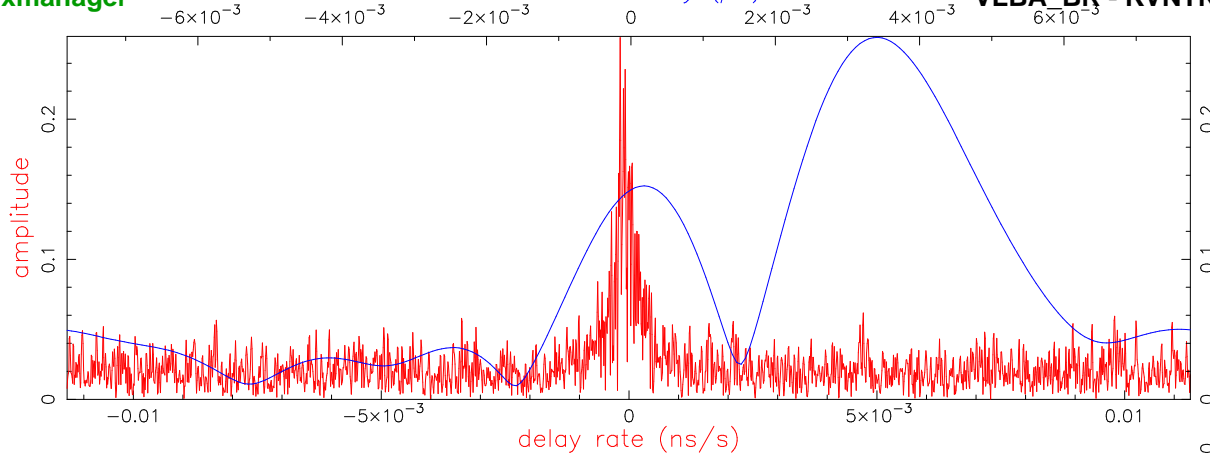
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bt

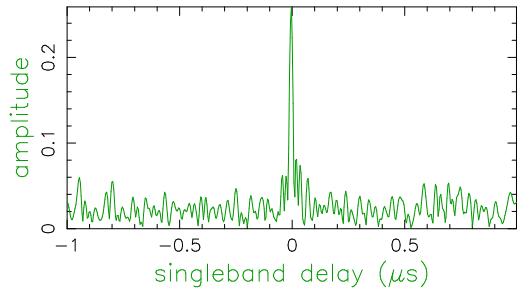
VLBA_BR - KVNTN, fgroup W, pol LL

multiband delay (μ s)

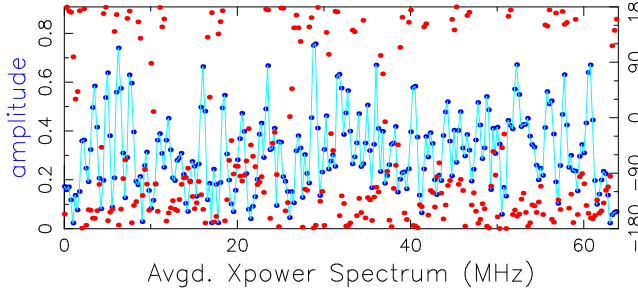


Fringe quality 8

SNR 15.5
 Int time 479.963
 Amp 0.259
 Phase 111.8
 PFD 1.4e-45
 Delays (us)
 SBD -0.004563
 MBD 0.003377
 Fringe rate (Hz)
 -0.015694
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

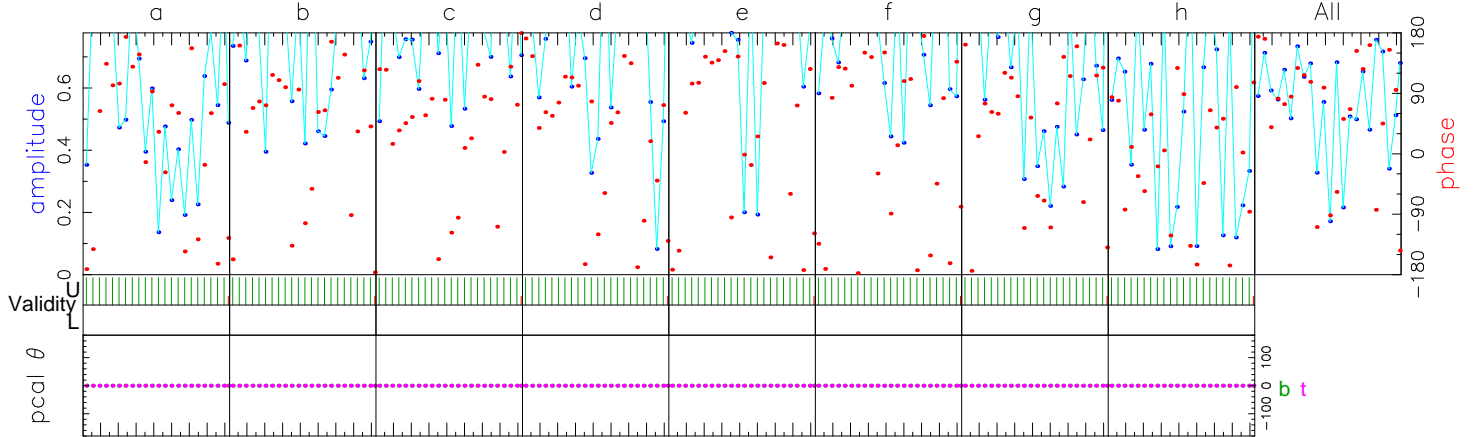


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132147
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.27326351633E+04	Apriori delay (usec)	1.27326474114E+04	Resid mbdelay (usec)	3.37697E-03	+/-	7.0E-05
Sband delay (usec)	1.27326428481E+04	Apriori clock (usec)	-3.0869637E+00	Resid sbdelay (usec)	-4.56325E-03	+/-	5.5E-04
Phase delay (usec)	1.27326474150E+04	Apriori clockrate (us/s)	-9.9999991E-08	Resid phdelay (usec)	3.60368E-06	+/-	2.4E-07
Delay rate (us/s)	-1.27483978402E+00	Apriori rate (us/s)	-1.27483960183E+00	Resid rate (us/s)	-1.82195E-07	+/-	8.6E-10
Total phase (deg)	117.6	Apriori accel (us/s/s)	-5.30551804772E-05	Resid phase (deg)	111.8	+/-	7.4

ph/seg (deg)	RMS 78.0	Theor. 17.7	Amplitude Search (2048X32)	0.259 +/- 0.017	0.241	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	128.0	30.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	45.3	10.4	Inc. seg. avg.	0.525	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.9	18.2	Inc. frq. avg.	0.298	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00	

b: az 255.4 el 73.1 pa 59.5 t: az 52.8 el 20.2 pa -62.4 u,v (fr/asec) 9666.646 -2492.575 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt.W.5.11M07A

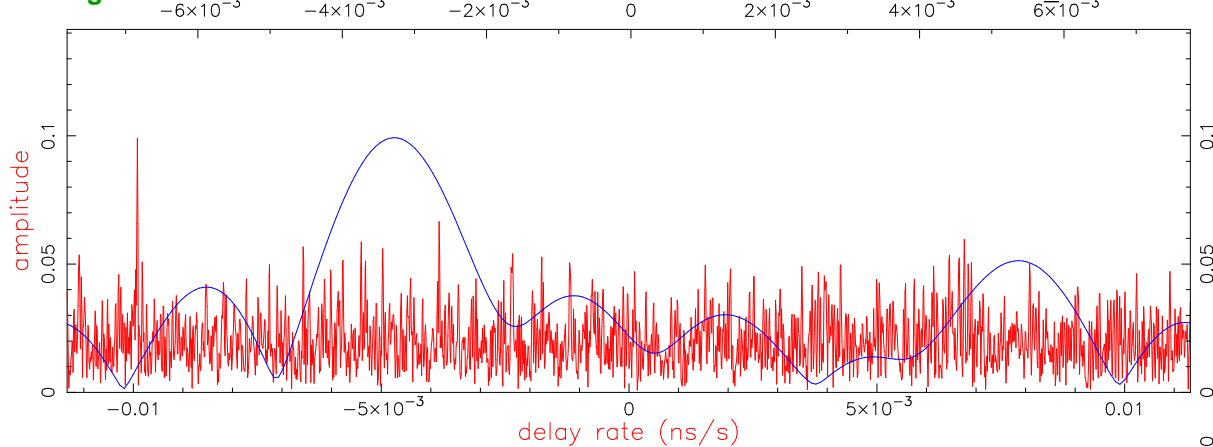
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1M07A, No0101, bt

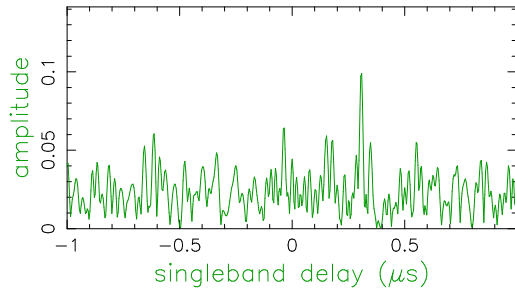
VLBA BR - KVNTN, fgroup W, pol RL

multiband delay (μ s)

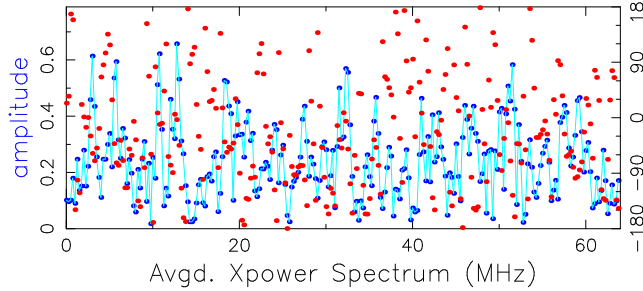


Fringe quality 0

SNR 6.0
 Int time 479.963
 Amp 0.141
 Phase -74.6
 PFD 3.3e-01
 Delays (us)
 SBD 0.306953
 MBD -0.003358
 Fringe rate (Hz)
 -0.855447
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

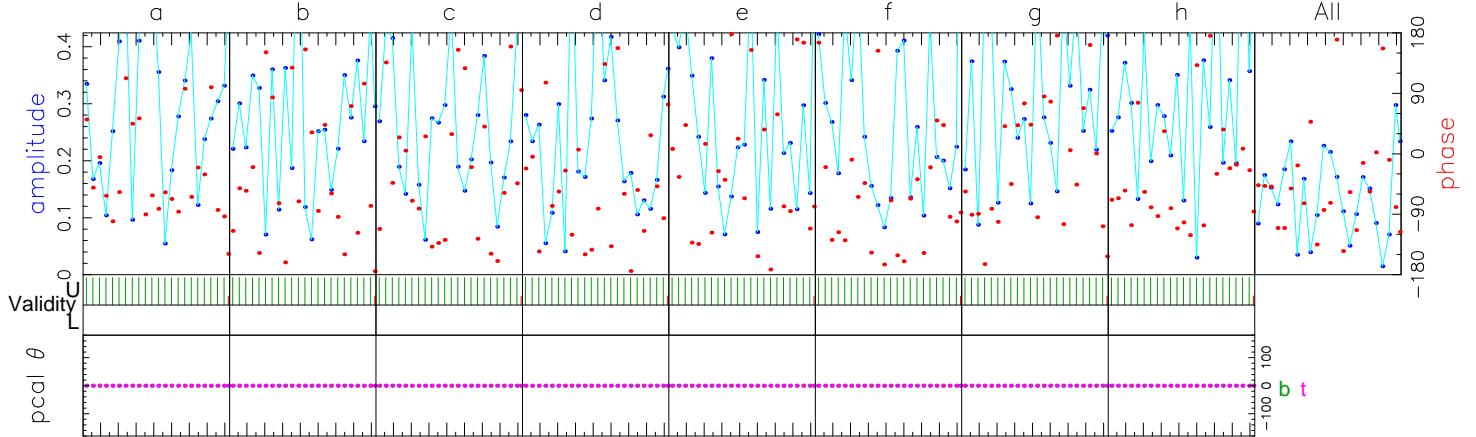


delay rate (ns/s)



Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build
 2021:023:071100
 2021:023:132159
 2020:247:085004
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0			
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)		1.27329565536E+04				1.27326474114E+04			Resid mbdelay (usec)	-3.35774E-03	+/- 1.8E-04
Sband delay (usec)		1.27329543641E+04				-3.0869637E+00			Resid sbdelay (usec)	3.06953E-01	+/- 1.4E-03
Phase delay (usec)		1.27326474090E+04				-9.9999991E-08			Resid phdelay (usec)	-2.40703E-06	+/- 6.1E-07
Delay rate (us/s)		-1.27484953272E+00				-1.27483960183E+00			Resid rate (us/s)	-9.93089E-06	+/- 2.2E-09
Total phase (deg)			-68.8			-5.30551804772E-05			Resid phase (deg)	-74.6	+/- 19.0
ph/seg (deg)	59.4	45.5							PCal mode: MANUAL, MANUAL		
amp/seg (%)	79.3	79.4							PCal rate: 0.000E+00, 0.000E+00 (us/s)		
ph/frq (deg)	21.4	26.8							Bits/sample: 2x2		
amp/frq (%)	44.6	46.8							SampCntNorm: enabled		
									Sample rate(MISamp/s): 128		
									Data rate(Mb/s): 2048		
									nlags: 256		
									t_cohere infinite		
b: az 255.4 el 73.1 pa 59.5									ion window (TEC)	0.00	0.00
t: az 52.8 el 20.2 pa -62.4											
u,v (fr/asec) 9666.646 -2492.575											
Control file: cf_1234_gmva											
Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt..11M07A											
Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bt.W.68.11M07A											

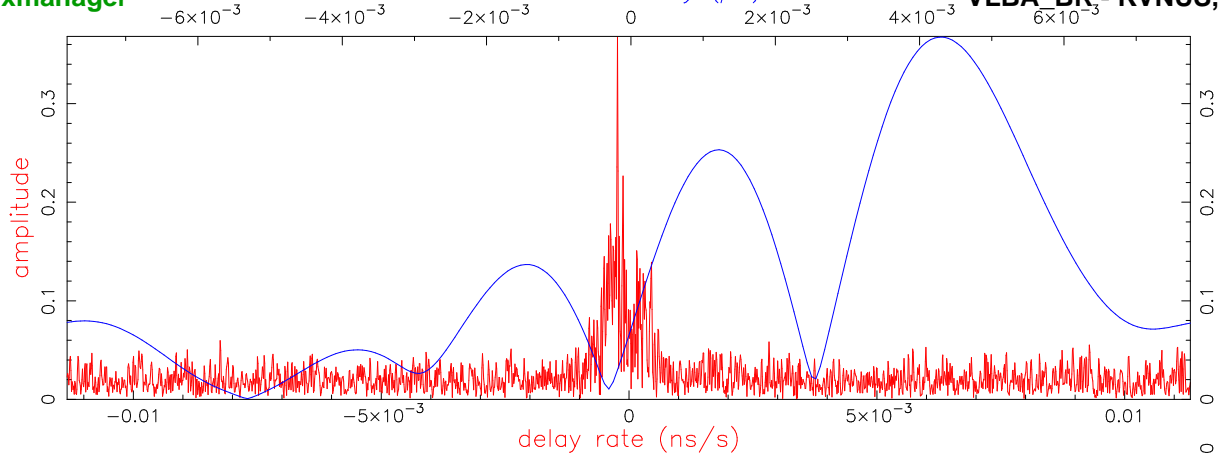
simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

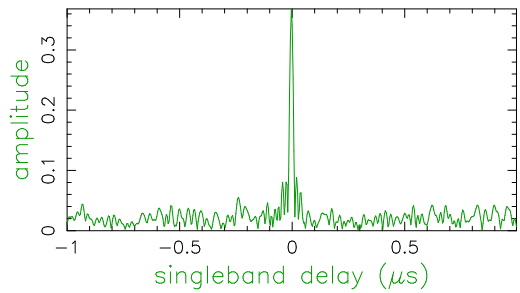
3C84.11M07A, No0101, bu
VLBA_BR - KVNUS, fgroup W, pol RR

multiband delay (μ s)

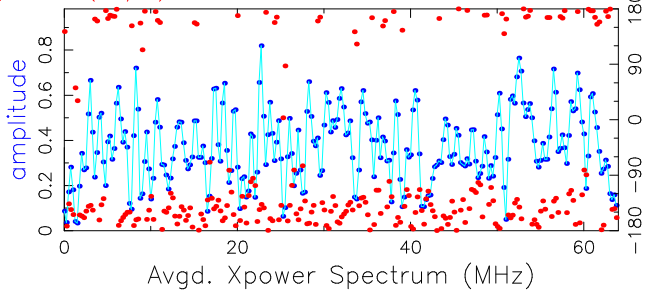


Fringe quality 8

SNR 22.1
Int time 479.961
Amp 0.368
Phase 113.5
PFD 0.0e+00
Delays (us)
SBD -0.003385
MBD 0.004323
Fringe rate (Hz)
-0.019631
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

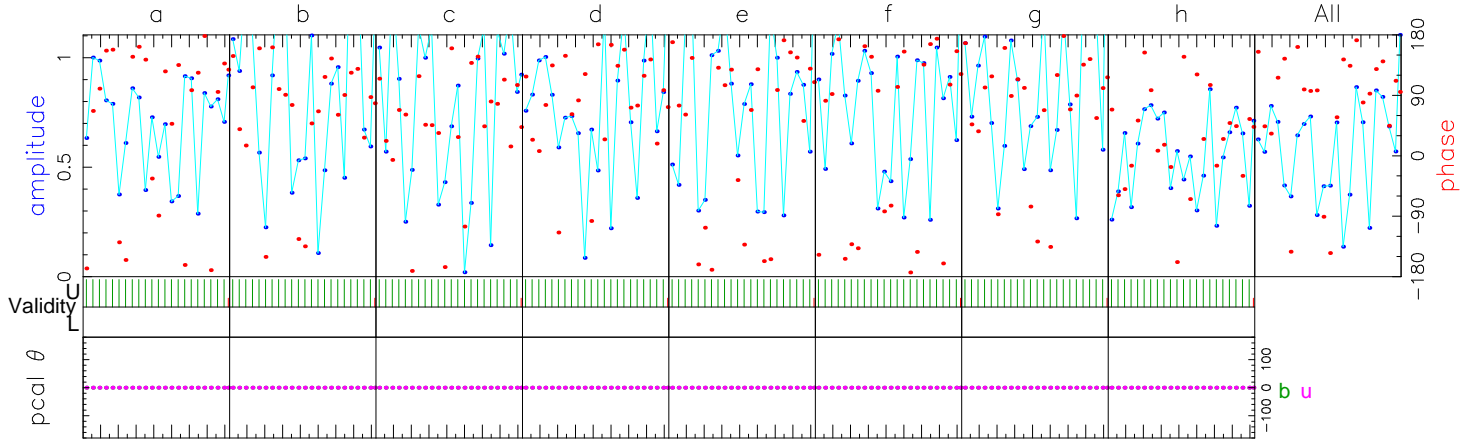


delay rate (ns/s)



Exp. c202b
Yr:day 16383
2021:023:071100
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132152
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	1.16385205859E+04	Apriori delay (usec)	1.16385162632E+04	Resid mbdelay (usec)	4.32267E-03	+/-	4.9E-05
Sband delay (usec)	1.16385128782E+04	Apriori clock (usec)	-4.2698560E+00	Resid sbdelay (usec)	-3.38500E-03	+/-	3.9E-04
Phase delay (usec)	1.16385162669E+04	Apriori clockrate (us/s)	-3.9999997E-07	Resid phdelay (usec)	3.66115E-06	+/-	1.7E-07
Delay rate (us/s)	-1.24858236273E+00	Apriori rate (us/s)	-1.24858213483E+00	Resid rate (us/s)	-2.27901E-07	+/-	6.0E-10
Total phase (deg)	82.1	Apriori accel (us/s/s)	-4.96728697879E-05	Resid phase (deg)	113.5	+/-	5.2

ph/seg (deg)	59.0	RMS	12.5	Theor.	12.5	Amplitude	0.368 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	81.9	Search (2048X32)	0.338	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	45.5	Inc. seg. avg.	0.567	Inc. frq. avg.	0.443	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	32.1	Inc. frq. avg.	0.443	Data rate (Mb/s):	2048	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite

b: az 255.4 el 73.1 pa 59.5 u: az 54.5 el 23.3 pa -63.0 u,v (fr/asec) 9471.816 -2469.919 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu.W.29.11M07A

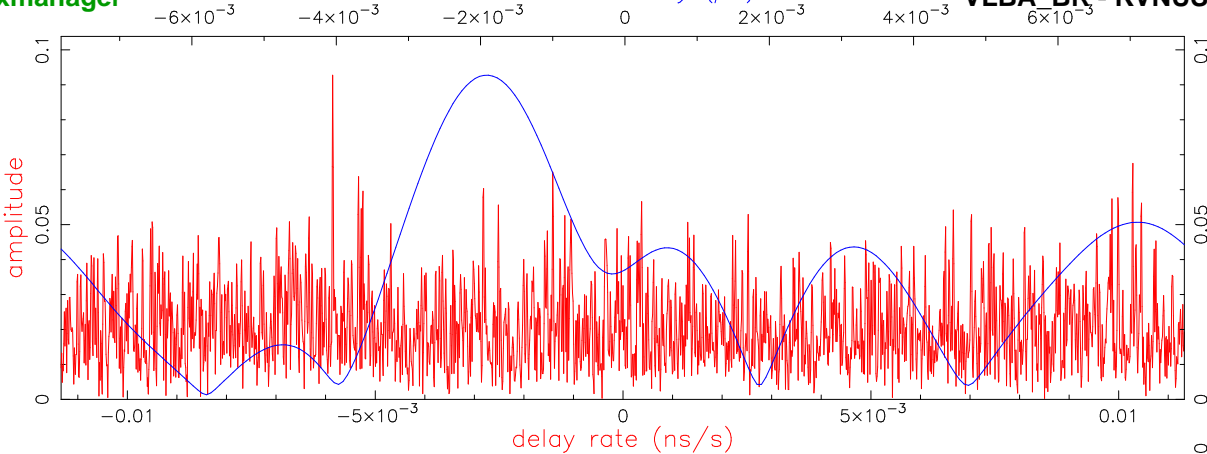
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.11M07A, No0101, bu

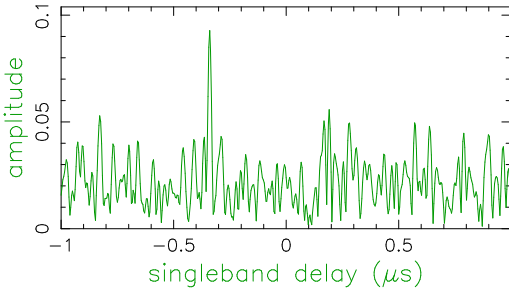
VLBA_BR - KVNUS, fgroup W, pol LR

multiband delay (μ s)

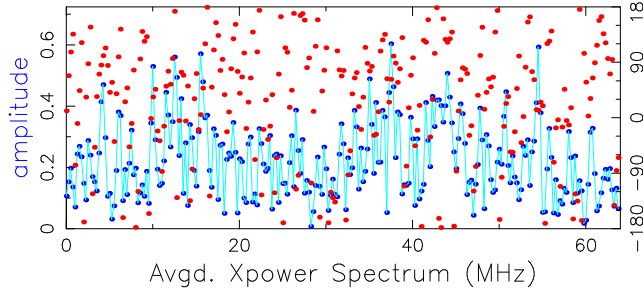


Fringe quality 0

SNR 5.6
Int time 479.961
Amp 0.104
Phase 140.1
PFD 1.0e+00
Delays (us)
SBD -0.340053
MBD -0.001925
Fringe rate (Hz)
-0.505353
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

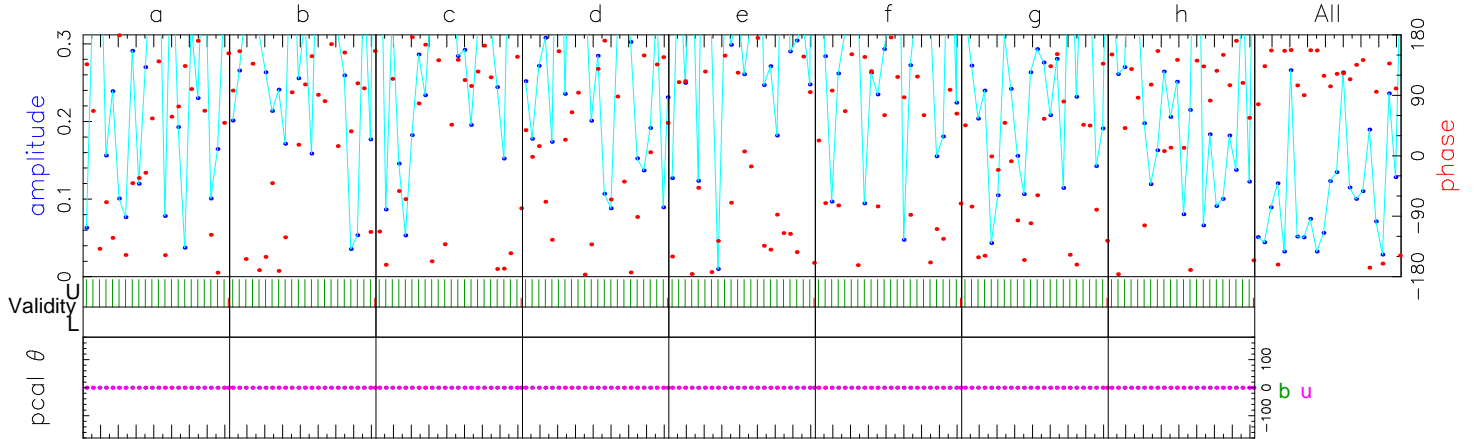


delay rate (ns/s)



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132156
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
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)(sbd)		1.16381705883E+04			1.16385162632E+04					
Sband delay (usec)		1.16381762105E+04			-4.2698560E+00					
Phase delay (usec)		1.16385162677E+04			-3.9999997E-07					
Delay rate (us/s)		-1.24858800147E+00			-1.24858213483E+00					
Total phase (deg)			108.7		-4.96728697879E-05				140.1	+/- 20.6
ph/seg (deg)	RMS 35.0	Theor. 49.4	Amplitude 0.104 +/- 0.019							
amp/seg (%)	84.9	86.3	Search (2048X32) 0.091							
ph/frq (deg)	75.8	29.1	Interp. 0.000							
amp/frq (%)	60.0	50.9	Inc. seg. avg. 0.091							
			Inc. frq. avg. 0.103							
b: az 255.4 el 73.1 pa 59.5			u: az 54.5 el 23.3 pa -63.0							
										simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu..11M07A							Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu.W.48.11M07A

Validity
pcal θ
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

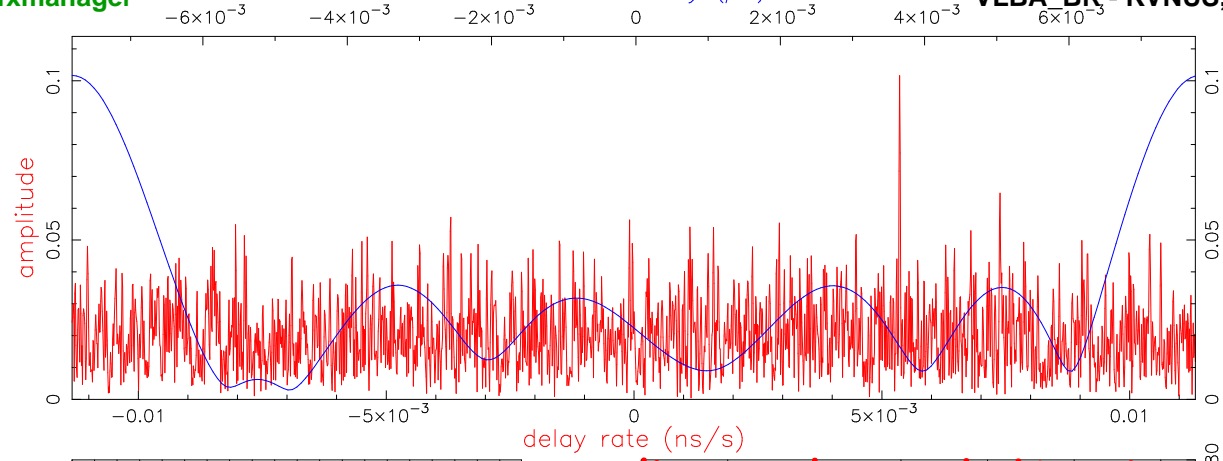
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

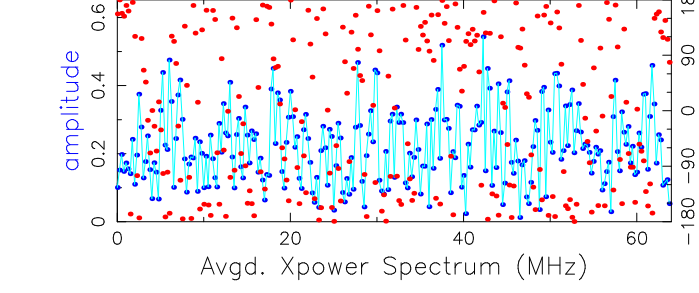
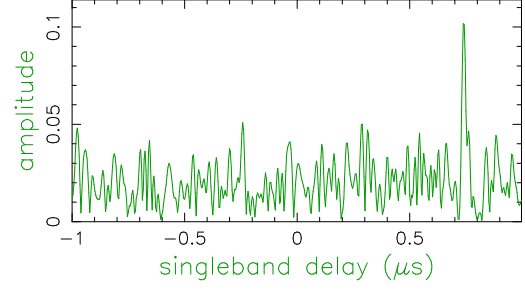
3C84.11M07A, No0101, bu

VLBA_BR - KVNUS, fgroup W, pol RL

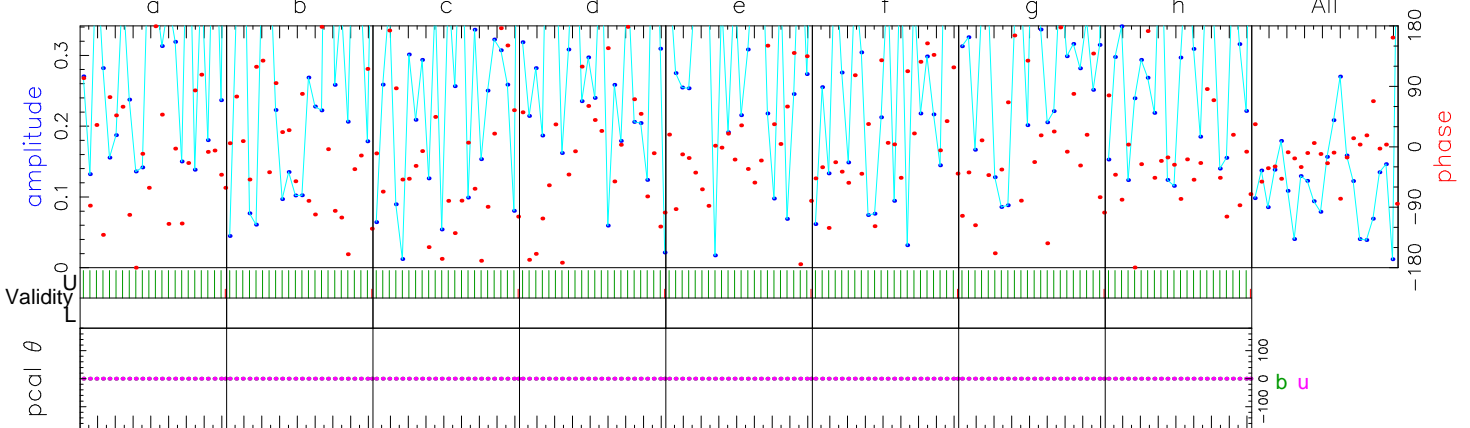
multiband delay (μ s)



Fringe quality 0
 SNR 6.2
 Int time 479.961
 Amp 0.114
 Phase -22.3
 PFD 1.3e-01
 Delays (us)
 SBD 0.740113
 MBD 0.007839
 Fringe rate (Hz) 0.462589
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c202b
 Exper # 16383
 Yr:day 2020:284
 Start 113001.00
 Stop 113801.26
 FRT 113401.00
 Corr/FF/build 2021:023:071100
 2021:023:132159
 2020:247:085004
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



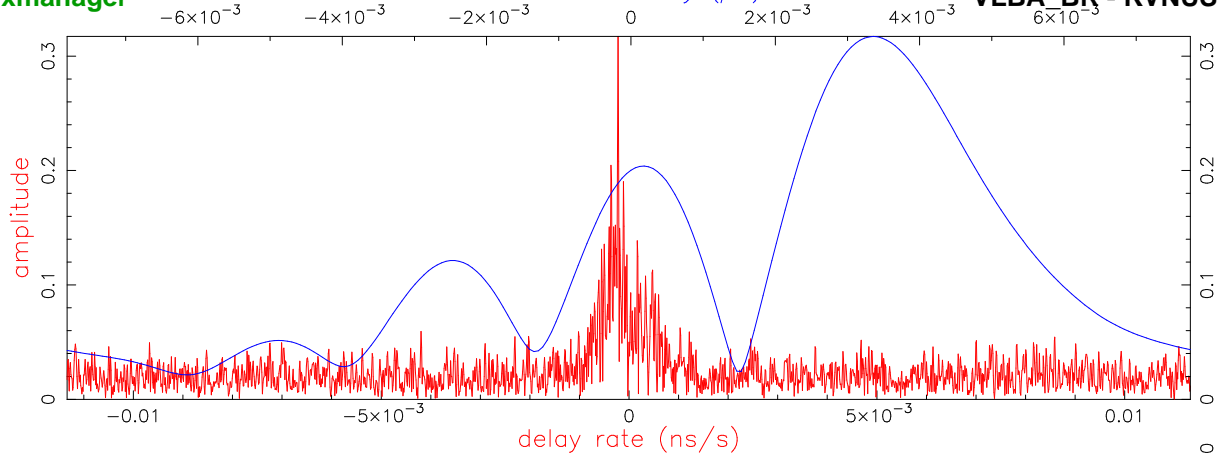
Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.5	-18.8	-76.2	-4.3	-26.9	15.0	-37.8	-27.8	Phase	-22.3
	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	278.6	452.8	360.8	321.8	447.0	5.0	496.5	14.5	Sbd box	446.5
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.16392584771E+04		Apriori delay (usec)		1.16385162632E+04		Resid mbdelay (usec)		7.83894E-03	+/- 1.7E-04
Sband delay (usec)	1.16392563767E+04		Apriori clock (usec)		-4.2698560E+00		Resid sbdelay (usec)		7.40113E-01	+/- 1.4E-03
Phase delay (usec)	1.16385162625E+04		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		-7.18807E-07	+/- 5.9E-07
Delay rate (us/s)	-1.24857676462E+00		Apriori rate (us/s)		-1.24858213483E+00		Resid rate (us/s)		5.37020E-06	+/- 2.1E-09
Total phase (deg)	306.3		Apriori accel (us/s/s)		-4.96728697879E-05		Resid phase (deg)		-22.3	+/- 18.4

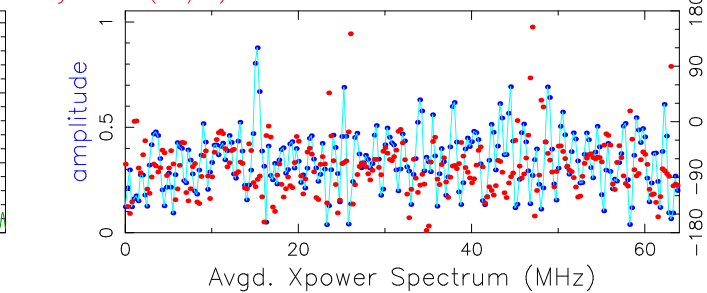
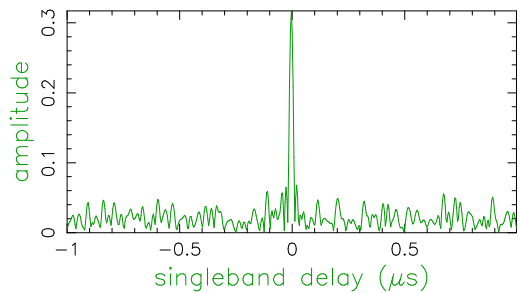
ph/seg (deg) 49.2 44.2 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.8 77.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.3 26.1 Inc. seg. avg. 0.103 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.0 45.5 Inc. frq. avg. 0.110 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 255.4 el 73.1 pa 59.5 u: az 54.5 el 23.3 pa -63.0 u,v (fr/asec) 9471.816 -2469.919 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu.W.67.11M07A

multiband delay (μ s)



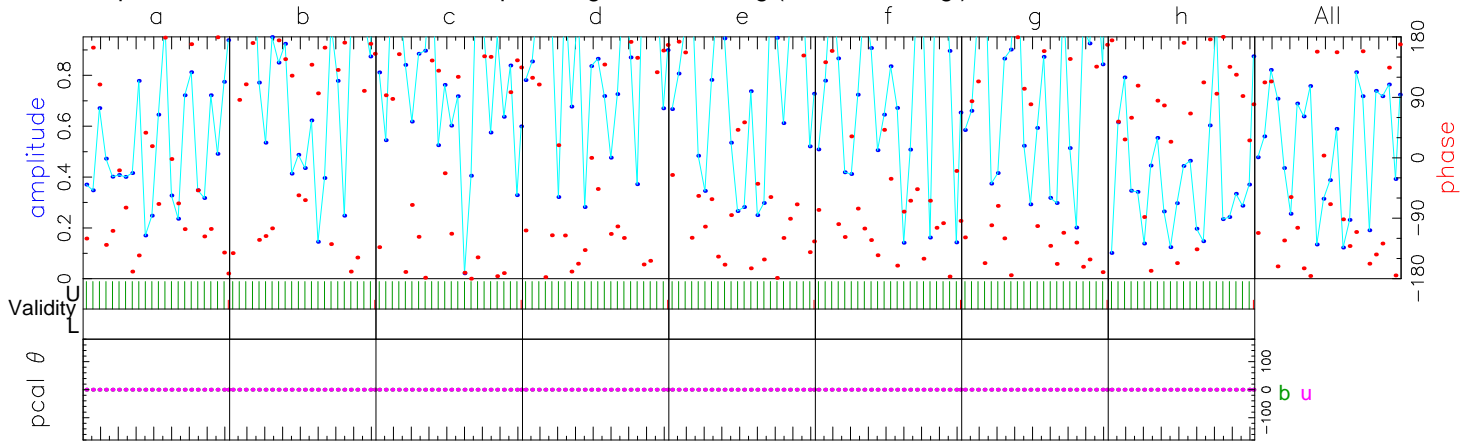
Fringe quality 8

SNR 19.0
Int time 479.961
Amp 0.317
Phase -161.5
PFD 0.0e+00
Delays (us)
SBD -0.003983
MBD 0.003354
Fringe rate (Hz)
-0.019571
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132147
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec



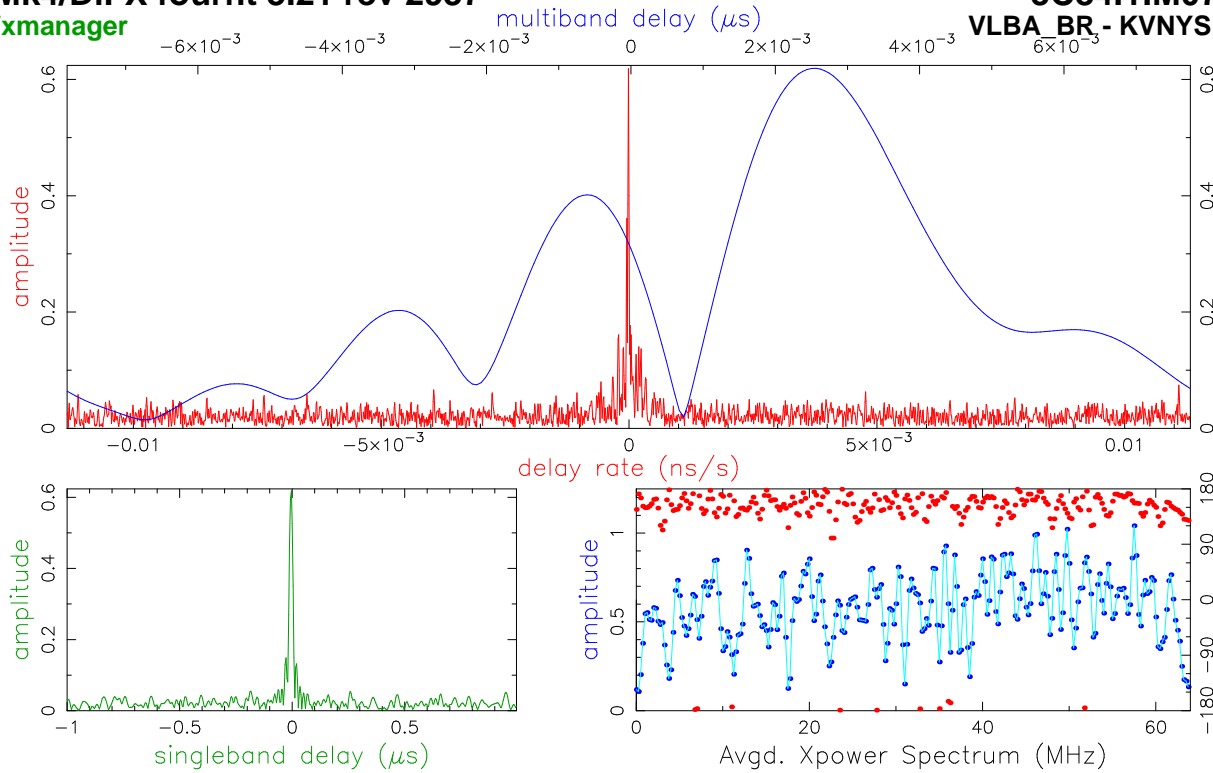
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-134.3	176.0	168.2	-160.7	-124.0	-109.7	-171.2	99.6	Phase	-161.5
	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.2	Ampl.	0.4
	254.1	256.1	256.2	256.4	256.1	256.2	255.6	252.9	Sbd box	256.0
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.16385196174E+04	Apriori delay (usec)	1.16385162632E+04	Resid mbdelay (usec)	3.35423E-03	+/-	5.7E-05
Sband delay (usec)	1.16385122800E+04	Apriori clock (usec)	-4.2698560E+00	Resid sbdelay (usec)	-3.98325E-03	+/-	4.5E-04
Phase delay (usec)	1.16385162580E+04	Apriori clockrate (us/s)	-3.9999997E-07	Resid phdelay (usec)	-5.20808E-06	+/-	1.9E-07
Delay rate (us/s)	-1.24858236203E+00	Apriori rate (us/s)	-1.24858213483E+00	Resid rate (us/s)	-2.27205E-07	+/-	7.0E-10
Total phase (deg)	167.1	Apriori accel (us/s/s)	-4.96728697879E-05	Resid phase (deg)	-161.5	+/-	6.0

ph/seg (deg)	62.8	RMS	14.5	Theor.	14.5	Amplitude	0.317 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	97.2	Search (2048X32)	0.288	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	51.8	Inc. seg. avg.	0.508	Inc. frq. avg.	0.391	Bits/sample: 2x2		Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
amp/frq (%)	38.2	Inc. frq. avg.	0.391			Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	dr window (ns/s) -0.011 0.011

b: az 255.4 el 73.1 pa 59.5 u: az 54.5 el 23.3 pa -63.0 u,v (fr/asec) 9471.816 -2469.919 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/bu.W.8.11M07A

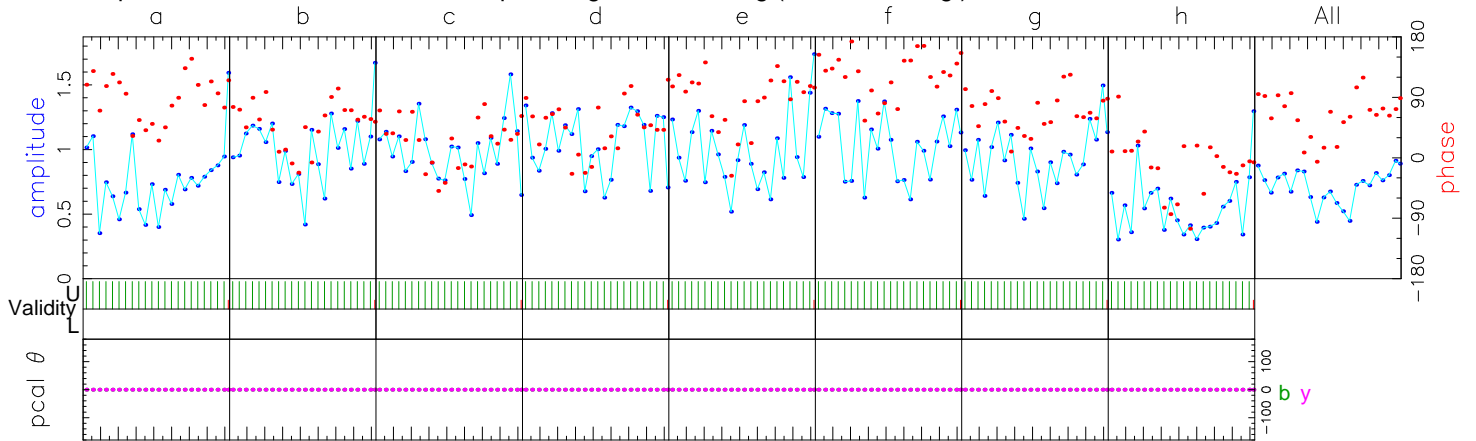


Fringe quality 5

SNR 37.4
Int time 479.897
Amp 0.624
Phase 66.7
PFD 0.0e+00
Delays (us)
SBD -0.005105
MBD 0.002480
Fringe rate (Hz)
-0.000936
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c202b
Yr:day 16383
Start 2021:023:071100
Stop 2021:023:132151
FRT 2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec

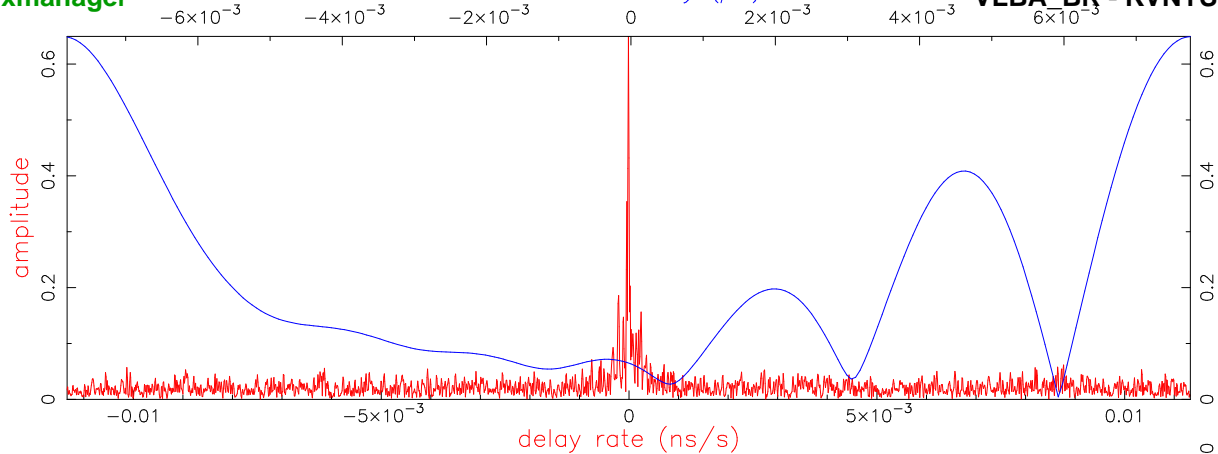


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)		1.17617269918E+04				1.17617245117E+04			2.48016E-03	+/- 2.9E-05
Sband delay (usec)		1.17617194069E+04				-2.9509640E+00			-5.10475E-03	+/- 2.3E-04
Phase delay (usec)		1.17617245138E+04				-9.9999991E-08			2.15229E-06	+/- 9.9E-08
Delay rate (us/s)		-1.22484667494E+00				-1.22484666408E+00			-1.08679E-08	+/- 3.6E-10
Total phase (deg)			223.8						66.7	+/- 3.1
			Apriori delay (usec)						Resid mbdelay (usec)	
			Apriori clock (usec)						Resid sbdelay (usec)	
			Apriori clockrate (us/s)						Resid phdelay (usec)	
			Apriori rate (us/s)						Resid rate (us/s)	
			Apriori accel (us/s/s)						Resid phase (deg)	
ph/seg (deg)	32.2	7.3	Search (2048X32)	0.617					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	25.1	12.8	Interp.	0.000					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	45.9	4.3	Inc. seg. avg.	0.710					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	32.6	7.6	Inc. frq. avg.	0.761					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 255.4 el 73.1 pa 59.5 y: az 54.3 el 23.0 pa -60.0 u,v (fr/asec) 9285.831 -2848.531 simultaneous interpolator

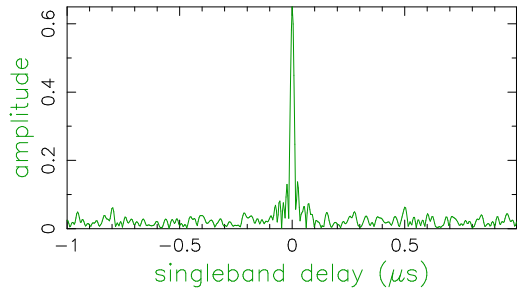
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/by..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/by.W.22.11M07A

multiband delay (μ s)

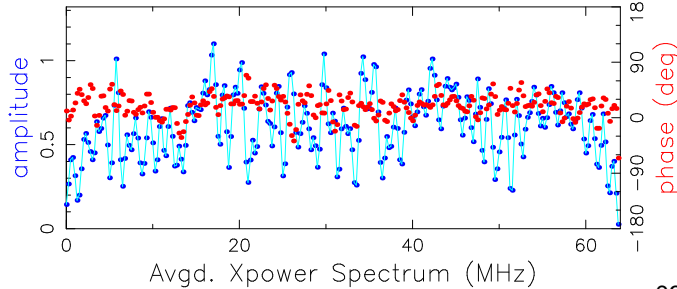


Fringe quality 5

SNR 38.9
Int time 479.897
Amp 0.650
Phase 113.7
PFD 0.0e+00
Delays (us)
SBD 0.000297
MBD -0.007853
Fringe rate (Hz)
-0.000879
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

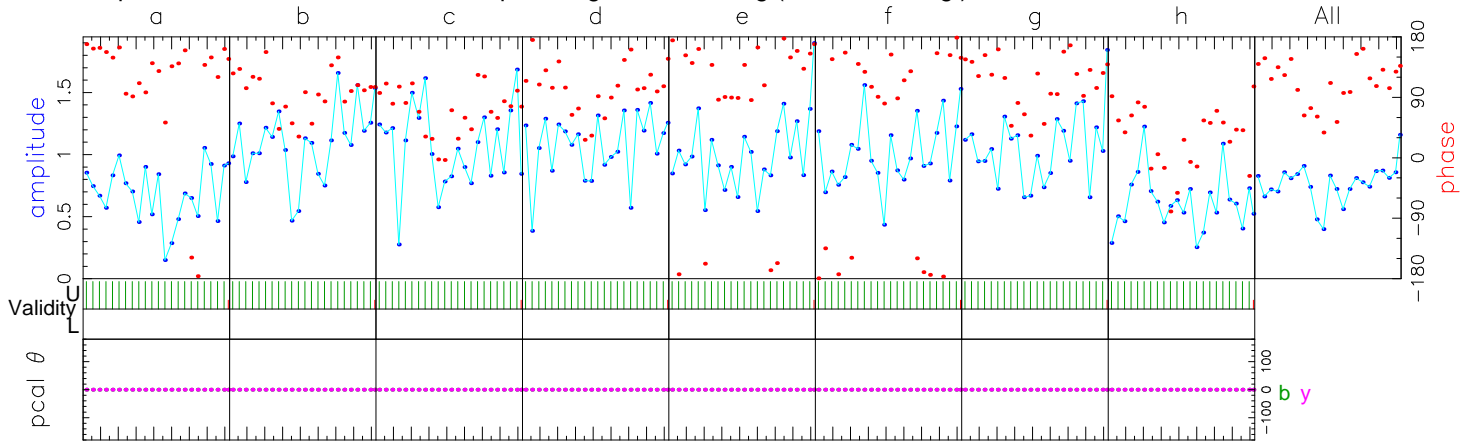


delay rate (ns/s)



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132147
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

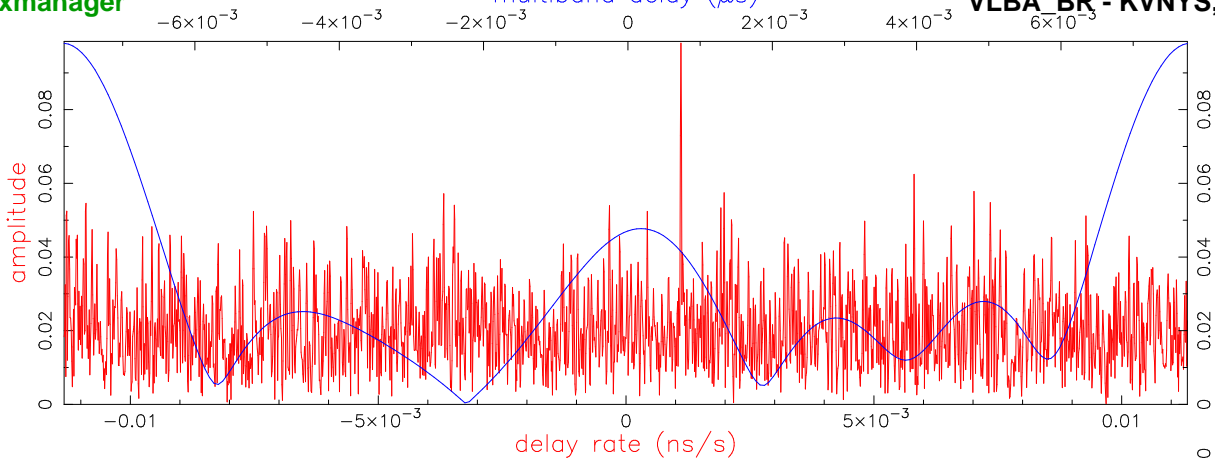
Group delay (usec)(sbd)	1.17617322833E+04	Apriori delay (usec)	1.17617245117E+04	Resid mbdelay (usec)	-7.85334E-03	+/-	2.8E-05
Sband delay (usec)	1.17617248092E+04	Apriori clock (usec)	-2.9509640E+00	Resid sbdelay (usec)	2.97500E-04	+/-	2.2E-04
Phase delay (usec)	1.17617245153E+04	Apriori clockrate (us/s)	-9.9999991E-08	Resid phdelay (usec)	3.66701E-06	+/-	9.5E-08
Delay rate (us/s)	-1.22484667428E+00	Apriori rate (us/s)	-1.22484666408E+00	Resid rate (us/s)	-1.01997E-08	+/-	3.4E-10
Total phase (deg)	270.7	Apriori accel (us/s/s)	-5.24400350774E-05	Resid phase (deg)	113.7	+/-	2.9

ph/seg (deg)	33.8	RMS	7.1	Theor.	Amplitude	0.650 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	26.5	Search (2048X32)	0.647	Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
ph/frq (deg)	45.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	31.8	Inc. seg. avg.	0.751	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.780	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

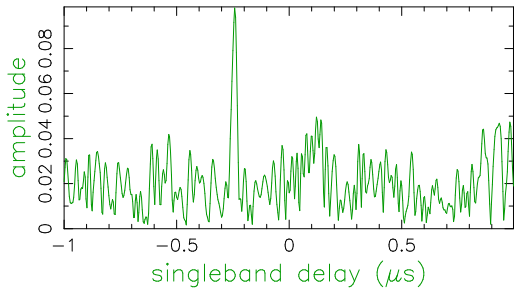
b: az 255.4 el 73.1 pa 59.5 y: az 54.3 el 23.0 pa -60.0 u,v (fr/asec) 9285.831 -2848.531 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/by..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/by.W.4.11M07A

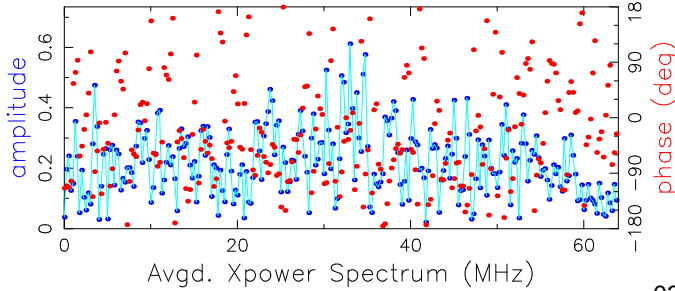
multiband delay (μ s)



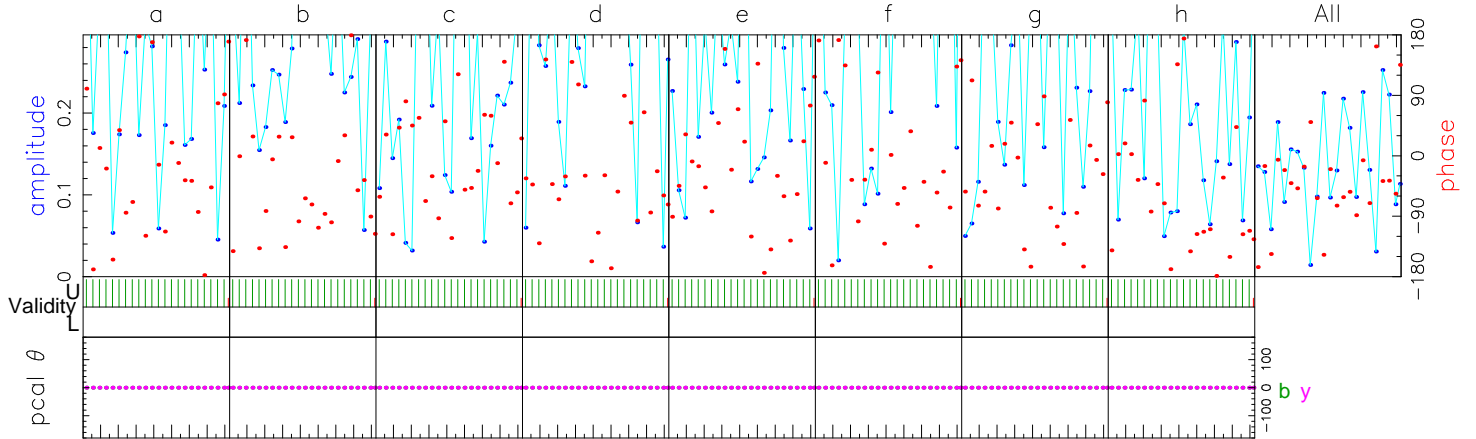
Fringe quality 0
SNR 5.9
Int time 479.897
Amp 0.099
Phase -49.9
PFD 6.5e-01
Delays (us)
SBD -0.241618
MBD 0.007799
Fringe rate (Hz)
0.095518
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132155
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



delay rate (ns/s)



Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 sec / seg.), time ticks 30 sec

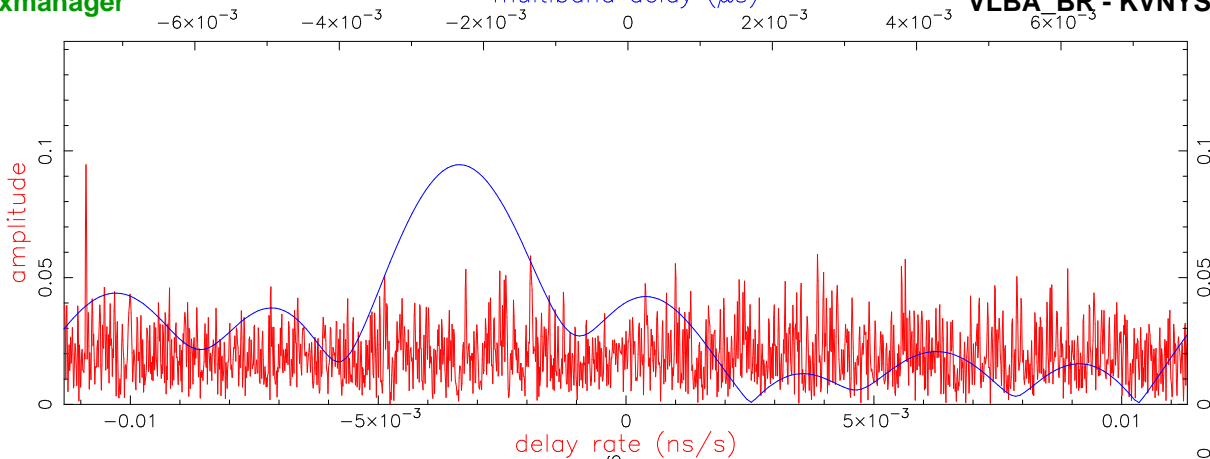


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-41.5	-77.7	-17.6	-59.1	-22.9	-74.3	-17.3	-85.2	Phase	-49.9
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	352.9	107.0	498.6	126.4	428.6	28.9	53.1	50.6	Sbd box	195.1
U/L	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.17614823105E+04		Apriori delay (usec)		1.17617245117E+04		Resid mbdelay (usec)		7.79877E-03	+/- 1.8E-04
Sband delay (usec)	1.17614828942E+04		Apriori clock (usec)		-2.9509640E+00		Resid sbdelay (usec)		-2.41618E-01	+/- 1.5E-03
Phase delay (usec)	1.17617245101E+04		Apriori clockrate (us/s)		-9.9999991E-08		Resid phdelay (usec)		-1.60810E-06	+/- 6.3E-07
Delay rate (us/s)	-1.2248455521E+00		Apriori rate (us/s)		-1.22484666408E+00		Resid rate (us/s)		1.10887E-06	+/- 2.3E-09
Total phase (deg)	107.2		Apriori accel (us/s/s)		-5.24400350774E-05		Resid phase (deg)		-49.9	+/- 19.5

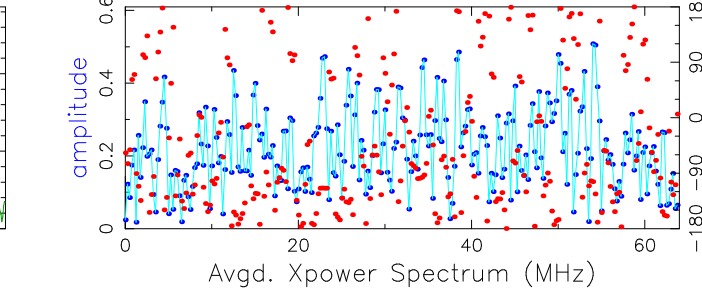
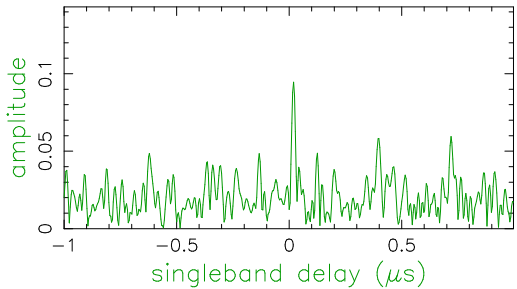
ph/seg (deg) 61.6 46.7 Search (2048X32) 0.094 Pcd mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 76.7 81.6 Interp. 0.000 Pcd rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.6 27.6 Inc. seg. avg. 0.104 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 29.5 48.1 Inc. frq. avg. 0.099 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 255.4 el 73.1 pa 59.5 y: az 54.3 el 23.0 pa -60.0 u,v (fr/asec) 9285.831 -2848.531 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c202b/v1/v1_3mm/1234/No0101/by..11M07A Output file: /Exps/c202b/v1/v1_3mm/1234/No0101/by.W.42.11M07A

multiband delay (μ s)

Fringe quality 0

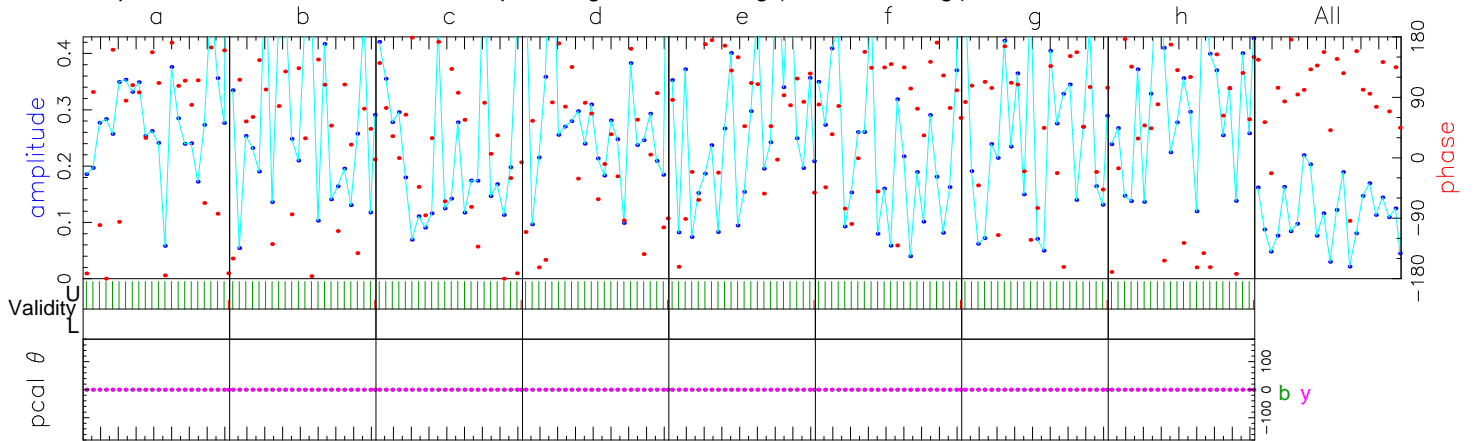


SNR 5.7
Int time 479.897
Amp 0.143
Phase 115.5
PFD 9.7e-01
Delays (us)
SBD 0.019267
MBD -0.002338
Fringe rate (Hz)
-0.939522
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c202b
Exper # 16383
Yr:day 2020:284
Start 113001.00
Stop 113801.26
FRT 113401.00
Corr/FF/build
2021:023:071100
2021:023:132159
2020:247:085004
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 42 APs / seg (21.50 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	938/0	938/0	938/0	938/0	938/0	938/0	938/0	938/0				
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)		1.17617377987E+04				1.17617245117E+04			Resid mbdelay (usec)	-2.33794E-03 +/- 1.9E-04		
Sband delay (usec)		1.17617437789E+04				-2.9509640E+00			Resid sbdelay (usec)	1.92672E-02 +/- 1.5E-03		
Phase delay (usec)		1.17617245154E+04				-9.9999991E-08			Resid phdelay (usec)	3.72304E-06 +/- 6.5E-07		
Delay rate (us/s)		-1.22485757099E+00				-1.22484666408E+00			Resid rate (us/s)	-1.09069E-05 +/- 2.4E-09		
Total phase (deg)			272.5						Resid phase (deg)	115.5 +/- 20.2		
	RMS	Theor.	Amplitude	0.143 +/- 0.025					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	56.1	48.5	Search (2048X32)	0.090					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	60.3	84.6	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	26.3	28.6	Inc. seg. avg.	0.130					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	37.3	49.9	Inc. frq. avg.	0.137					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00