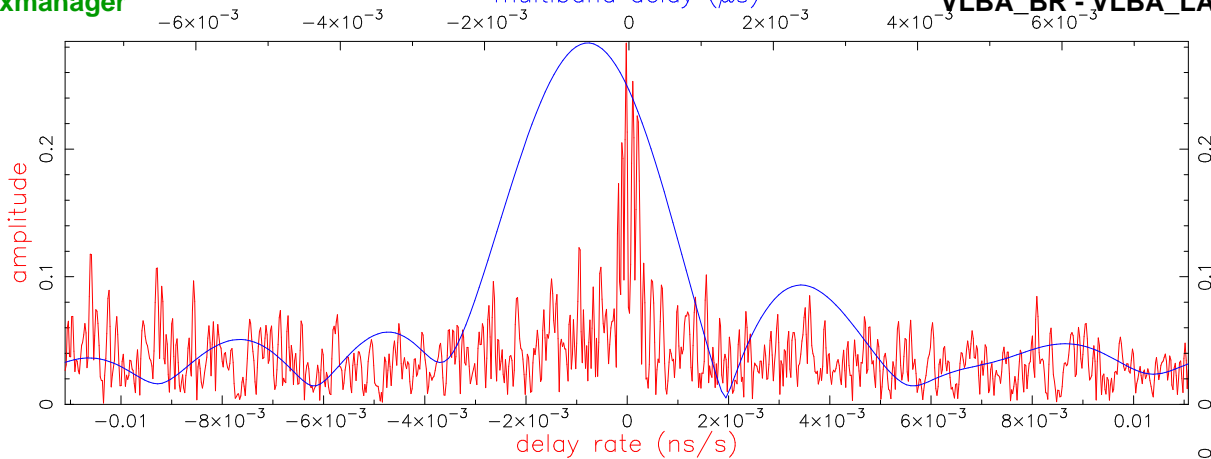
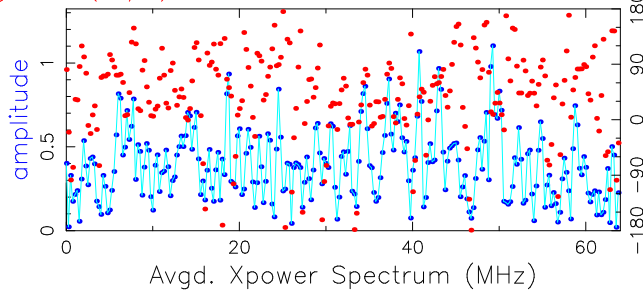
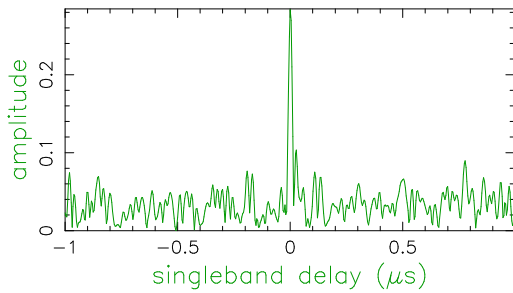


multiband delay (μ s)



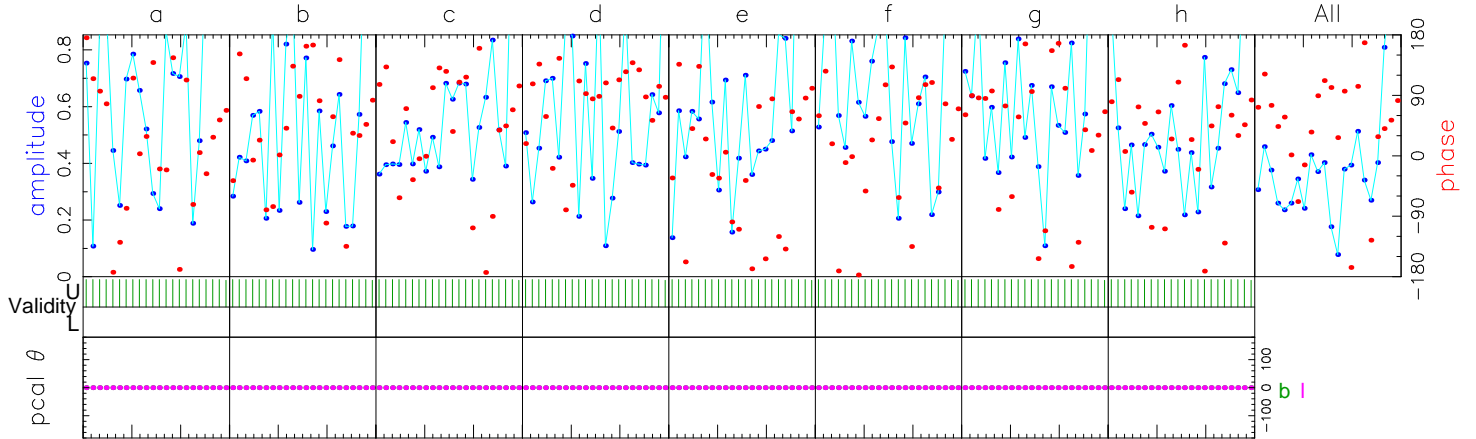
Fringe quality 9

SNR 10.4
Int time 179.977
Amp 0.284
Phase 72.2
PFD 3.8e-17
Delays (us)
SBD 0.000903
MBD -0.000537
Fringe rate (Hz)
-0.000994
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141910
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
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)	-3.82817413304E+03	Apriori delay (usec)	-3.82817359626E+03	Resid mbdelay (usec)	-5.36781E-04	+/-	1.0E-04
Sband delay (usec)	-3.82817269301E+03	Apriori clock (usec)	-1.2884302E+00	Resid sbdelay (usec)	9.03250E-04	+/-	8.3E-04
Phase delay (usec)	-3.82817359398E+03	Apriori clockrate (us/s)	9.999998E-08	Resid phdelay (usec)	2.28032E-06	+/-	3.5E-07
Delay rate (us/s)	2.15692220250E-01	Apriori rate (us/s)	2.15692231556E-01	Resid rate (us/s)	-1.13061E-08	+/-	3.3E-09
Total phase (deg)		Apriori accel (us/s/s)	1.99418858167E-05	Resid phase (deg)	72.2	+/-	11.0

ph/seg (deg)	66.4	Theor.	25.8	Amplitude	0.284 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	121.3		44.9	Search (1024X32)	0.263	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	10.3		15.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	21.9		27.1	Inc. seg. avg.	0.397	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.277	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 155.2 el 37.8 pa -16.2 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -1253.425 1408.357 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bl.W.1.1JLJ5P

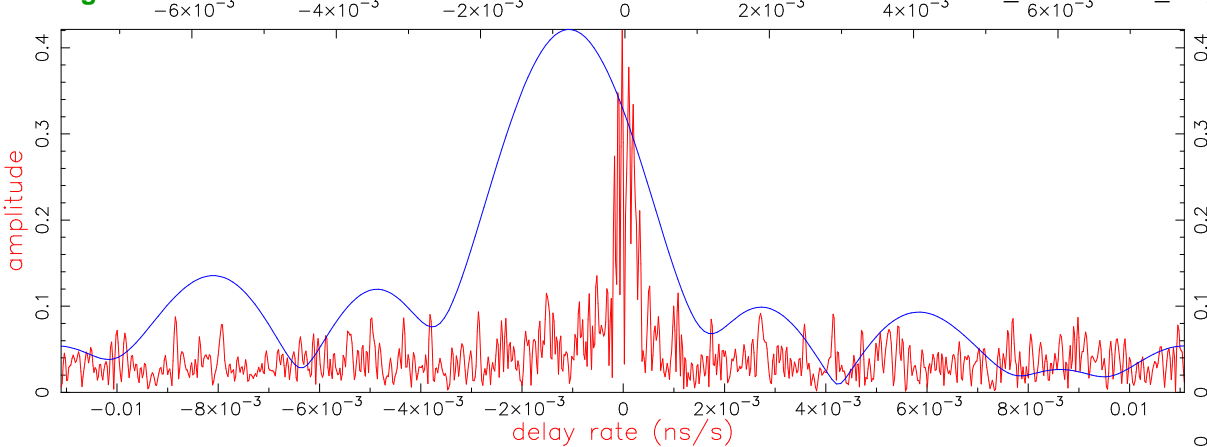
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, bl

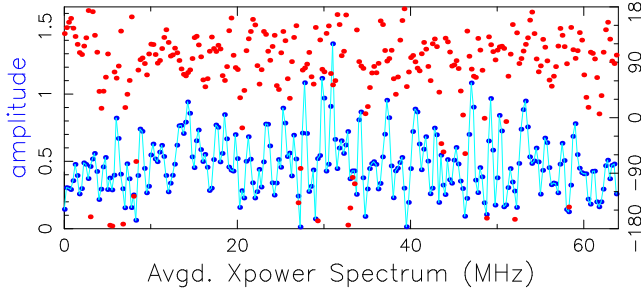
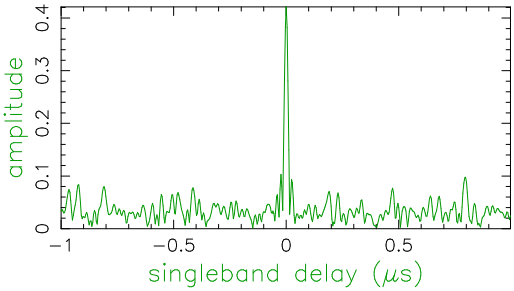
VLBA_BR - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



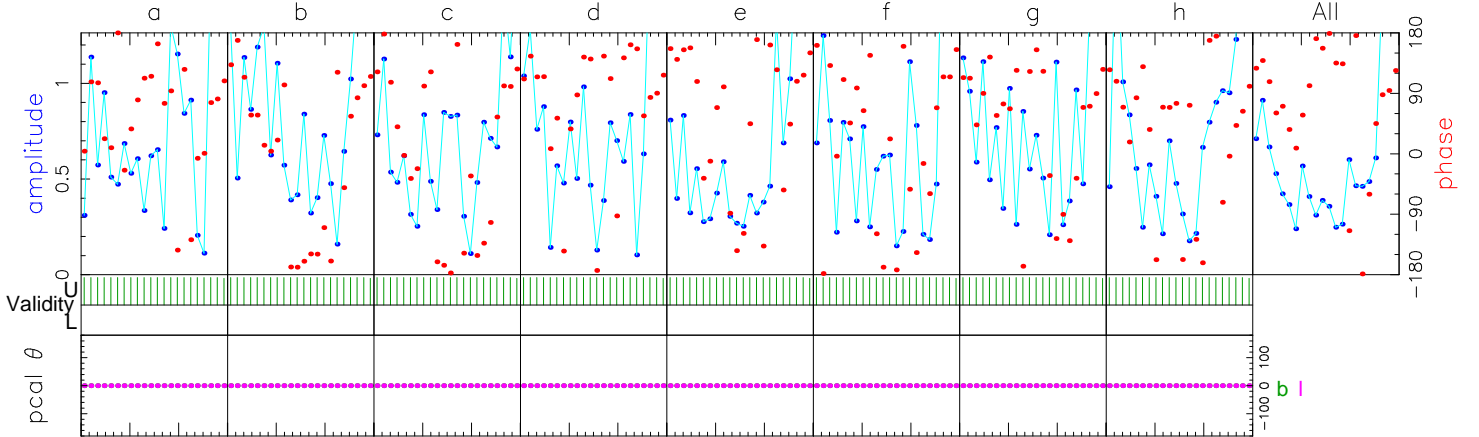
Fringe quality 9

SNR 15.5
 Int time 179.977
 Amp 0.421
 Phase 110.4
 PFD 2.8e-45
 Delays (us)
 SBD -0.000053
 MBD -0.000777
 Fringe rate (Hz)
 -0.001225
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141913
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.82817437358E+03								Resid mbdelay (usec)	-7.77321E-04 +/- 7.0E-05
Sband delay (usec)	-3.82817364951E+03								Resid sbdelay (usec)	-5.32500E-05 +/- 5.6E-04
Phase delay (usec)	-3.82817359277E+03								Resid phdelay (usec)	3.48674E-06 +/- 2.3E-07
Delay rate (us/s)	2.15692217625E-01								Resid rate (us/s)	-1.39311E-08 +/- 2.3E-09
Total phase (deg)		90.6							Resid phase (deg)	110.4 +/- 7.4
ph/seg (deg)	66.6	17.4							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	123.2	30.3							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	20.7	10.5							Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	15.5	18.3							Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
									Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

b: az 155.2 el 37.8 pa -16.2 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -1253.425 1408.357 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bl.W.20.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

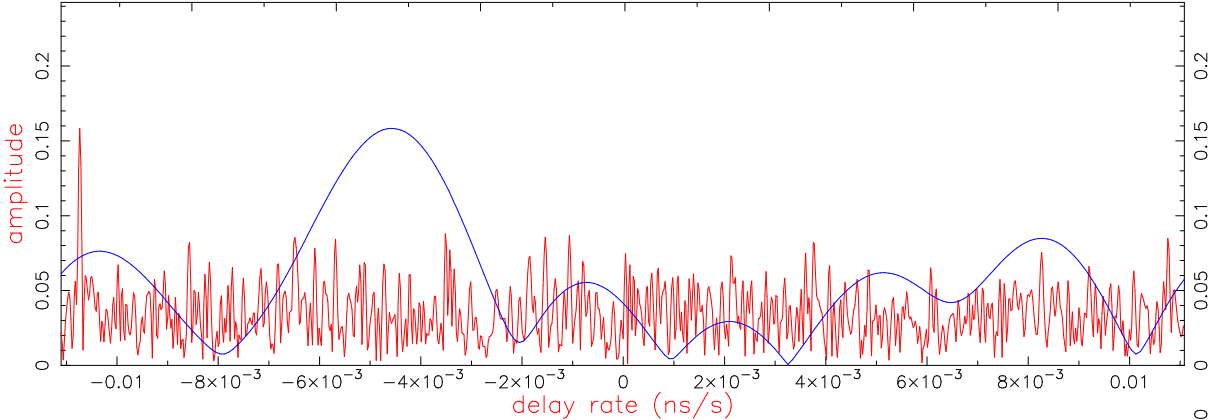
0420-014.1JLJ5P, No0075, bl

VLBA_BR - VLBA_LA, fgroup W, pol LR

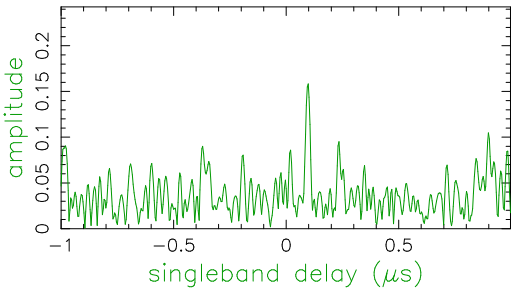
multiband delay (μ s)

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

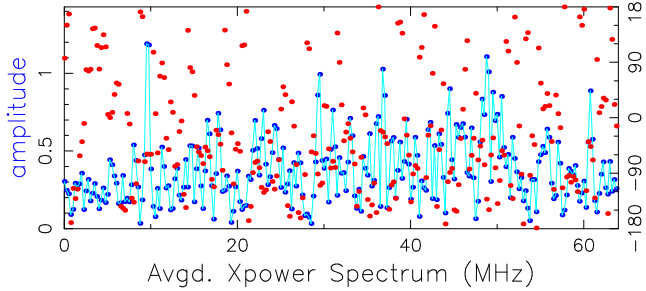
Fringe quality 0



SNR 5.8
Int time 179.977
Amp 0.243
Phase -1.5
PFD 4.8e-01
Delays (us)
SBD 0.096423
MBD -0.003258
Fringe rate (Hz)
-0.945913
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



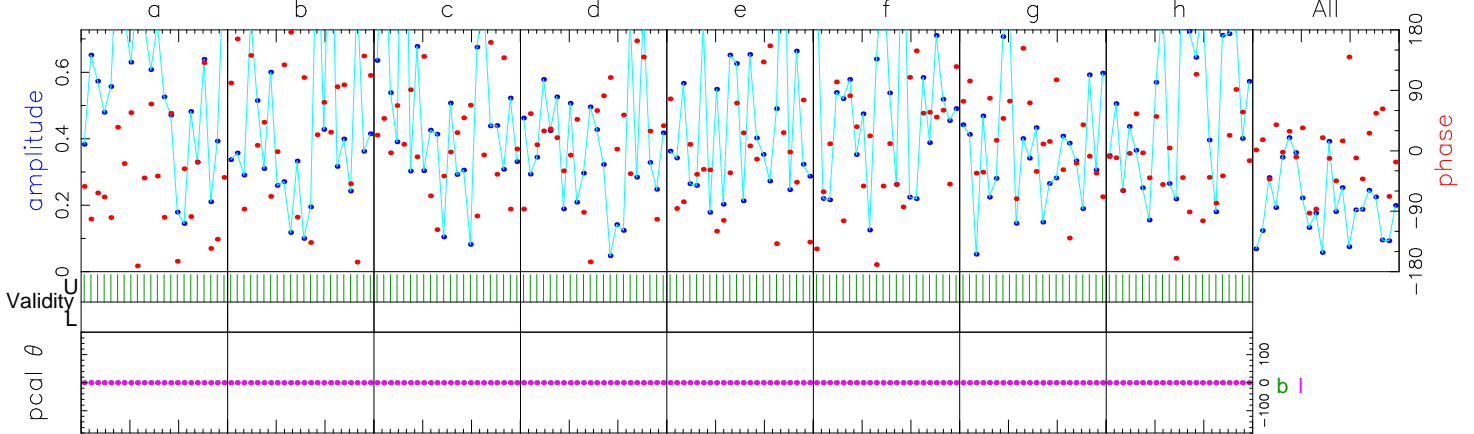
singleband delay (μ s)



Avgd. Xpower Spectrum (MHz)

Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141914
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.82808310390E+03									
Sband delay (usec)	-3.82807717351E+03									
Phase delay (usec)	-3.82817359631E+03									
Delay rate (us/s)	2.15681475210E-01									
Total phase (deg)			-21.3							
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude	0.243 +/- 0.042									
Search (1024X32)	0.155									
Interp.	0.000									
Inc. seg. avg.	0.236									
Inc. frq. avg.	0.249									
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
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 155.2 el 37.8 pa -16.2 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -1253.425 1408.357 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bl.1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bl.W.35.1JLJ5P

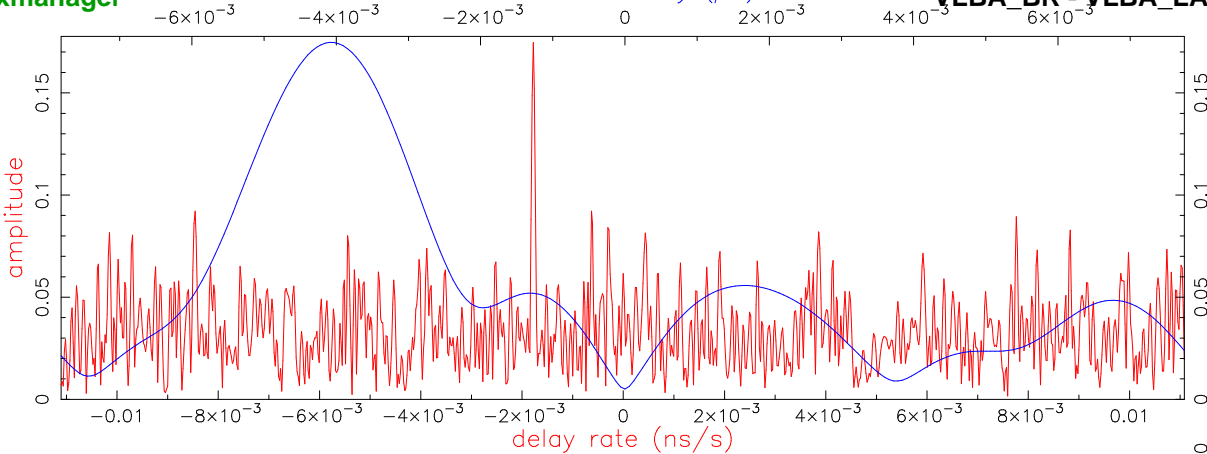
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, bl

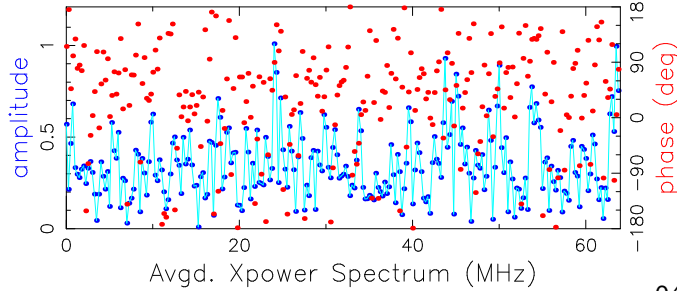
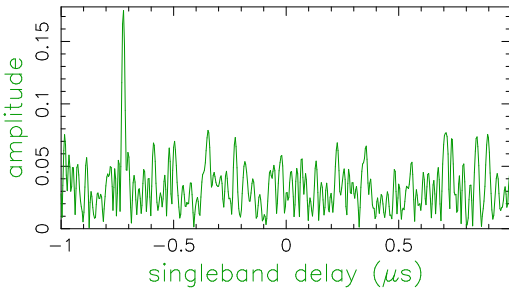
VLBA_BR - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



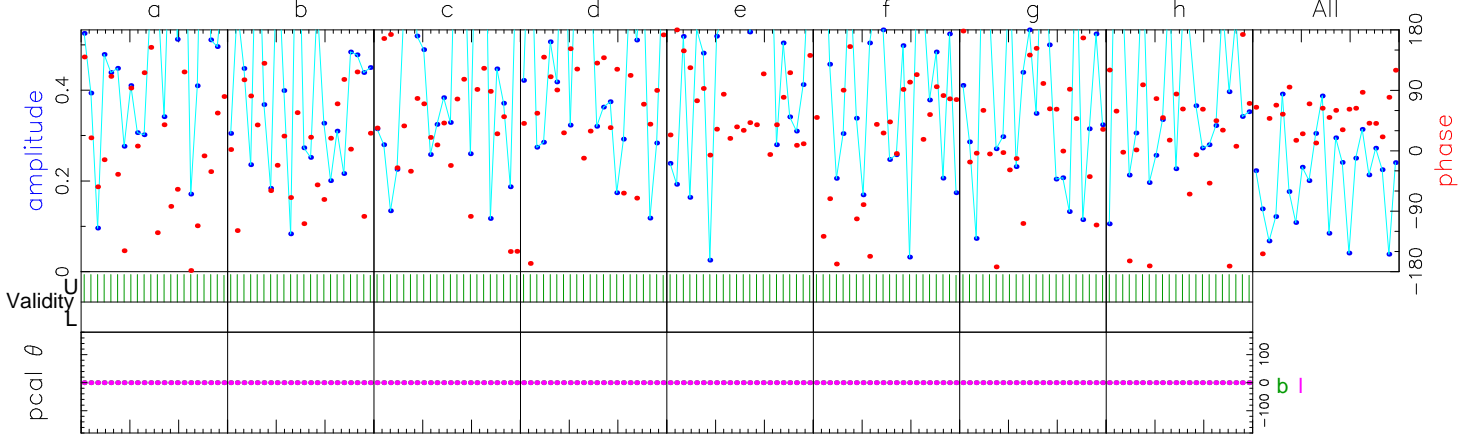
Fringe quality 0

SNR 6.4
 Int time 179.977
 Amp 0.178
 Phase 55.8
 PFD 1.6e-02
 Delays (us)
 SBD -0.723582
 MBD -0.004105
 Fringe rate (Hz)
 -0.157073
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141916
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

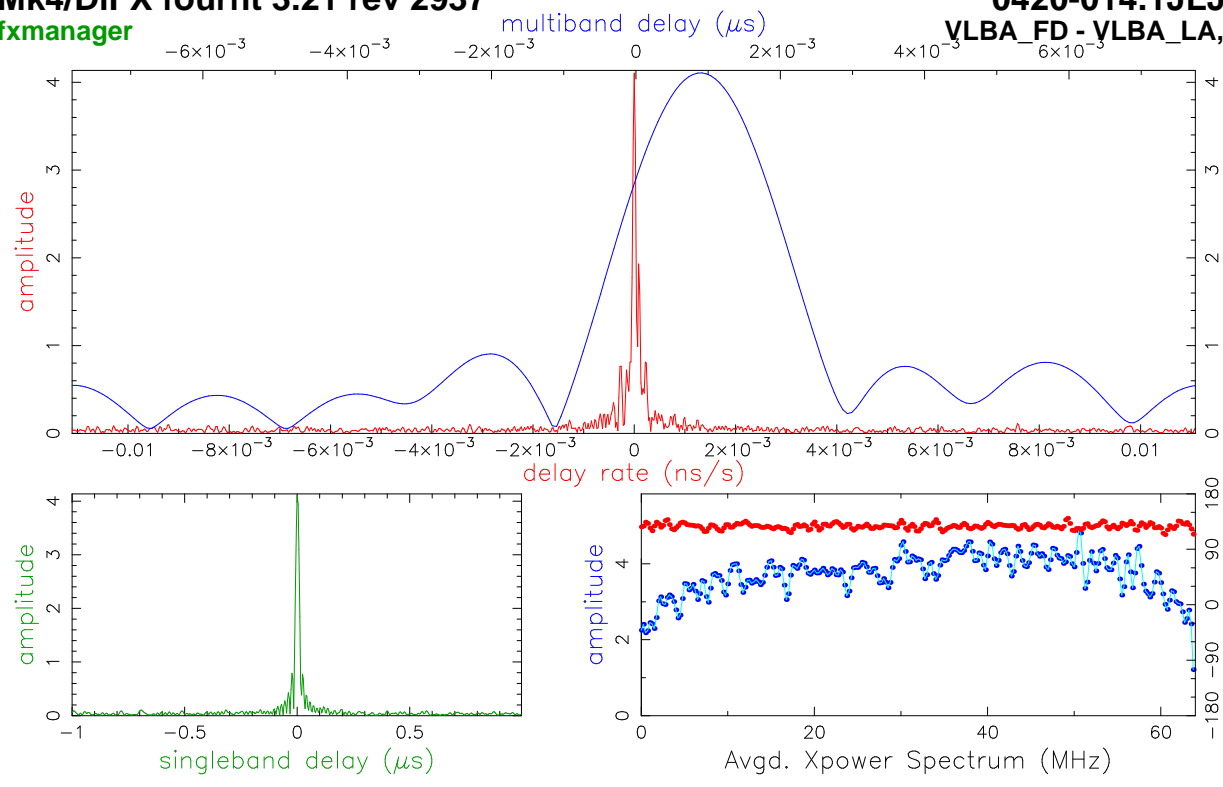
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used		
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		
Group delay (usec)(sbd)	-3.82889645159E+03										
Sband delay (usec)	-3.82889717801E+03										
Phase delay (usec)	-3.82817359449E+03										
Delay rate (us/s)	2.15690445419E-01										
Total phase (deg)			36.1								
Apriori delay (usec)					-3.82817359626E+03				Resid mbdelay (usec)	-4.10533E-03	+/- 1.7E-04
Apriori clock (usec)					-1.2884302E+00				Resid sbdelay (usec)	-7.23582E-01	+/- 1.3E-03
Apriori clockrate (us/s)					9.9999998E-08				Resid phdelay (usec)	1.76397E-06	+/- 5.6E-07
Apriori rate (us/s)					2.15692231556E-01				Resid rate (us/s)	-1.78614E-06	+/- 5.4E-09
Apriori accel (us/s/s)					1.99418858167E-05				Resid phase (deg)	55.8	+/- 17.8
RMS	41.2	41.7			0.178 +/- 0.028				PCal mode: MANUAL, MANUAL		
Theor.									PCal rate: 0.000E+00, 0.000E+00 (us/s)		
Amplitude									PC period (AP's) 5, 5		
Search (1024X32)					0.171				sb window (us)	-1.000	1.000
Interp.					0.000				SampCntNorm: enabled	mb window (us)	-0.008 0.008
Inc. seg. avg.					0.166				Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
Inc. frq. avg.					0.173				Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00
ph/seg (deg)									nlags: 256	t_cohere infinite	
amp/seg (%)											
ph/frq (deg)											
amp/frq (%)											

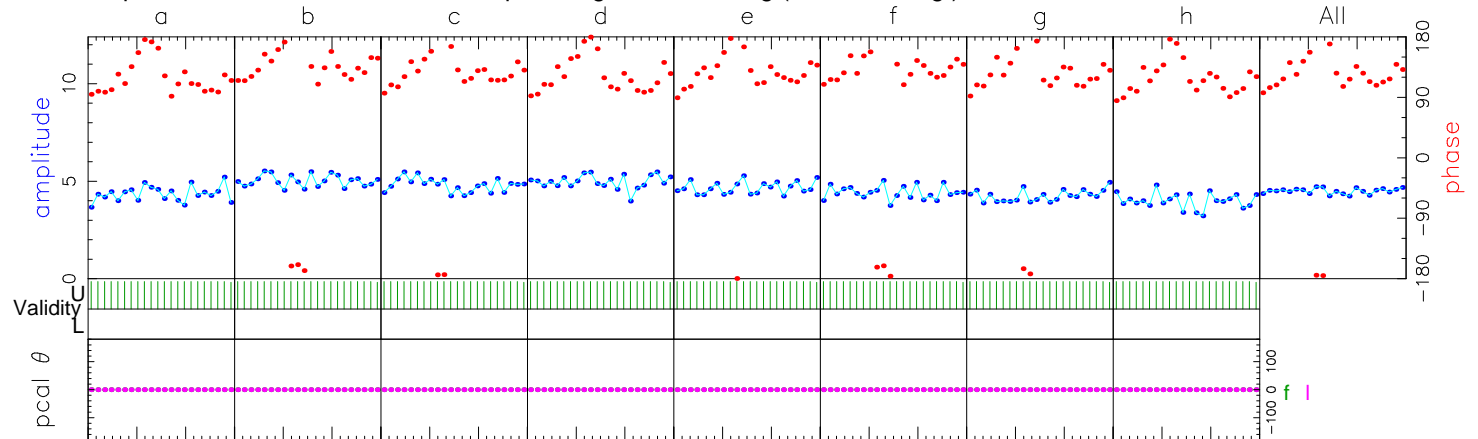
b: az 155.2 el 37.8 pa -16.2 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -1253.425 1408.357 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bl.W.49.1JLJ5P



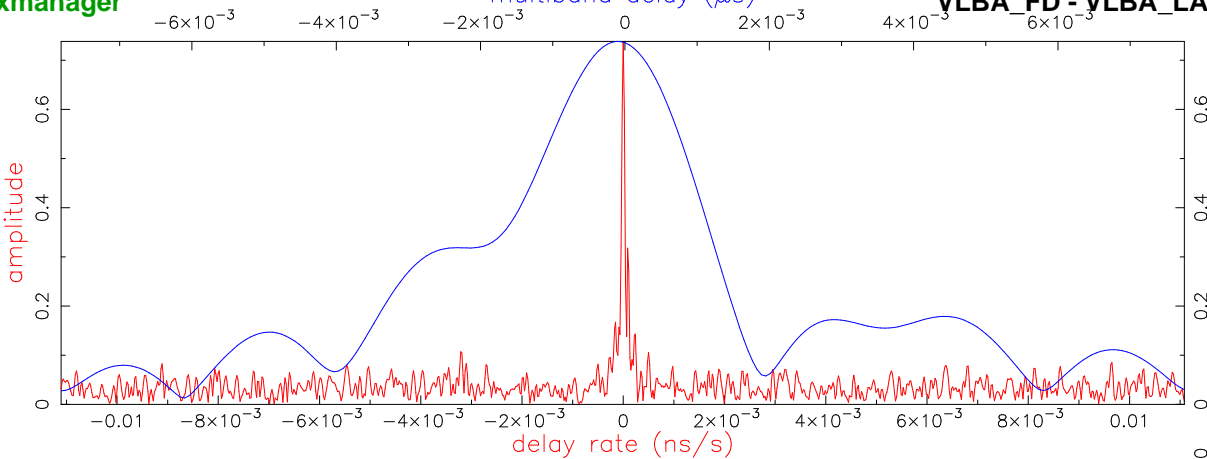
Fringe quality 7
SNR 151.7
Int time 179.976
Amp 4.135
Phase 129.7
PFD 0.0e+00
Delays (us)
SBD 0.001098
MBD 0.000924
Fringe rate (Hz) 0.000885
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512
Exp. c202c
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141914
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



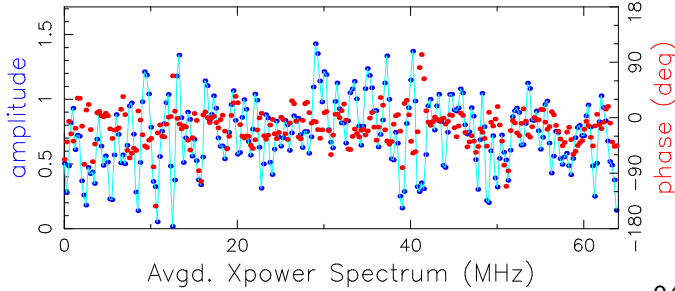
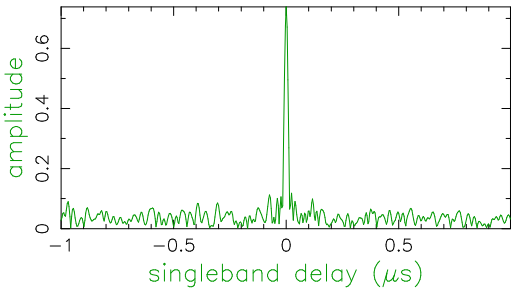
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)		1.13565313813E+03				1.13565221432E+03			Resid mbdelay (usec)	9.23813E-04 +/- 7.2E-06
Sband delay (usec)		1.13565331232E+03				8.3578453E+00			Resid sbdelay (usec)	1.09800E-03 +/- 5.7E-05
Phase delay (usec)		1.13565221842E+03				5.0000000E-07			Resid phdelay (usec)	4.09712E-06 +/- 2.4E-08
Delay rate (us/s)		-4.61867536469E-02				-4.61867637107E-02			Resid rate (us/s)	1.00638E-08 +/- 2.3E-10
Total phase (deg)			31.5			-5.80331495808E-06			Resid phase (deg)	129.7 +/- 0.8
ph/seg (deg)	24.5	1.8							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	9.5	3.1							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	9.8	1.1							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	7.5	1.9							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
f: az 173.2 el 57.9 pa -5.4		l: az 170.3 el 52.5 pa -7.3				u,v (fr/asec) 268.263 -667.365				simultaneous interpolator
Control file: cf_1234_88GHz_gmva		Input file: /Exps/c202c/v1/1234/No0075/fl..1JLJ5P				Output file: /Exps/c202c/v1/1234/No0075/fl.W.32.1JLJ5P				

multiband delay (μ s)



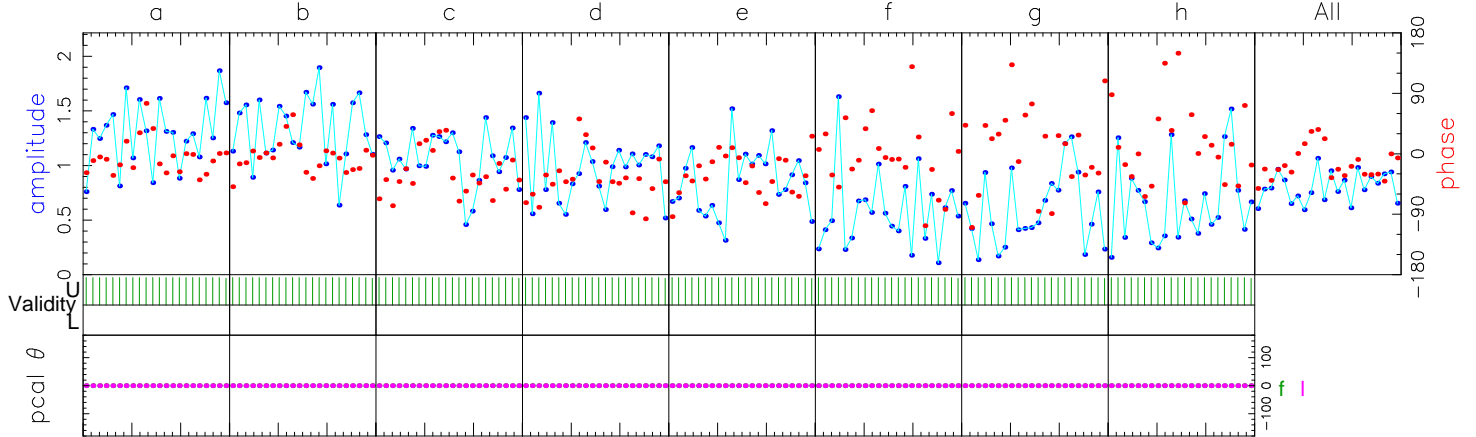
Fringe quality 7

SNR 27.1
Int time 179.976
Amp 0.738
Phase -15.7
PFD 0.0e+00
Delays (us)
SBD -0.000056
MBD -0.000099
Fringe rate (Hz) 0.000888
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141916
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



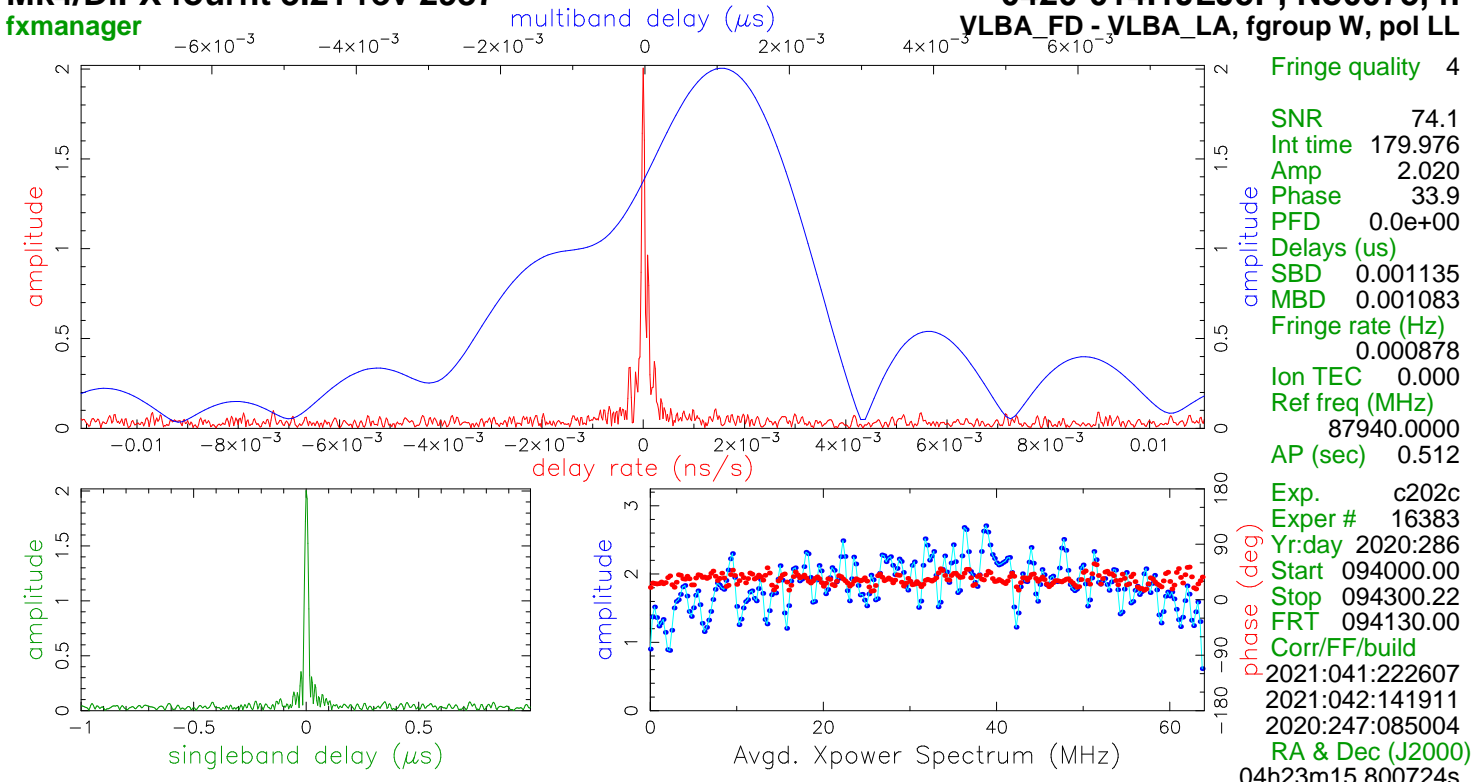
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	1.13565211538E+03	Apriori delay (usec)	1.13565221432E+03	Resid mbdelay (usec)	-9.89375E-05	+/-	4.0E-05
Sband delay (usec)	1.13565215857E+03	Apriori clock (usec)	8.3578453E+00	Resid sbdelay (usec)	-5.57500E-05	+/-	3.2E-04
Phase delay (usec)	1.13565221382E+03	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	-4.94590E-07	+/-	1.3E-07
Delay rate (us/s)	-4.61867536164E-02	Apriori rate (us/s)	-4.61867637107E-02	Resid rate (us/s)	1.00943E-08	+/-	1.3E-09
Total phase (deg)	246.1	Apriori accel (us/s/s)	-5.80331495808E-06	Resid phase (deg)	-15.7	+/-	4.2

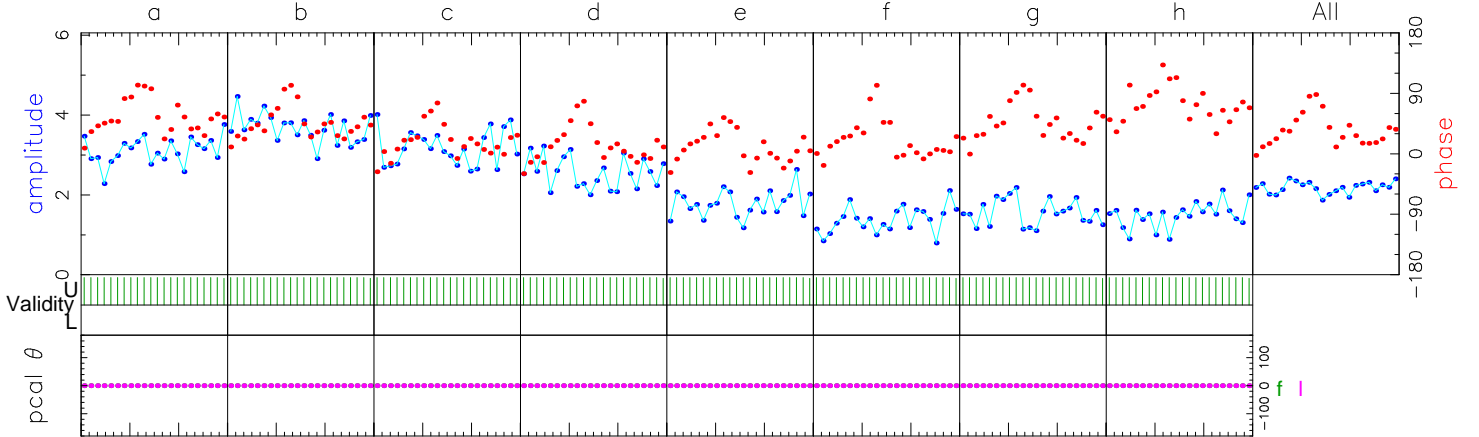
ph/seg (deg)	23.6	Theor.	9.9	Amplitude	0.738 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	20.2	Search (1024X32)	0.706	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	19.3	Inc. seg. avg.	0.793	Inc. seg. avg.	0.793	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	42.3	Inc. frq. avg.	0.762	Inc. frq. avg.	0.762	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 173.2 el 57.9 pa -5.4 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) 268.263 -667.365 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/fl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/fl.W.47.1JLJ5P



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



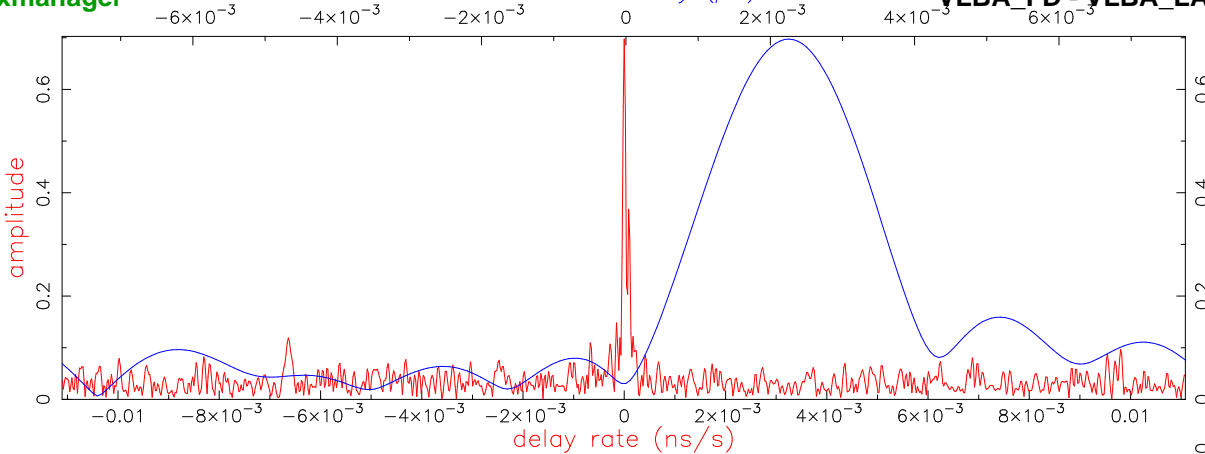
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.13565329719E+03	Apriori delay (usec)	1.13565221432E+03	Resid mbdelay (usec)	1.08287E-03	+/-	1.5E-05
Sband delay (usec)	1.13565334932E+03	Apriori clock (usec)	8.3578453E+00	Resid sbdelay (usec)	1.13500E-03	+/-	1.2E-04
Phase delay (usec)	1.13565221539E+03	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	1.07095E-06	+/-	4.9E-08
Delay rate (us/s)	-4.61867537219E-02	Apriori rate (us/s)	-4.61867637107E-02	Resid rate (us/s)	9.98883E-09	+/-	4.7E-10
Total phase (deg)	295.7	Apriori accel (us/s/s)	-5.80331495808E-06	Resid phase (deg)	33.9	+/-	1.5

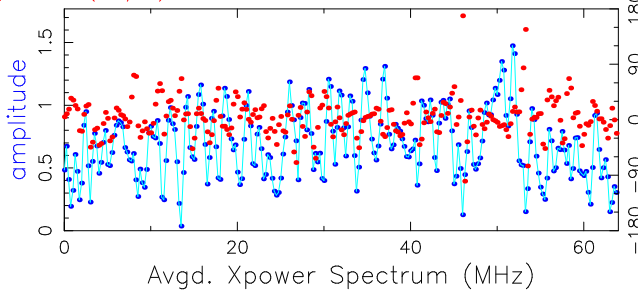
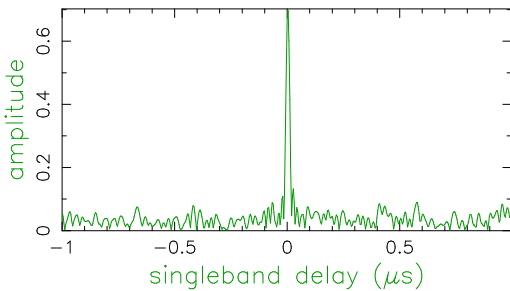
ph/seg (deg)	23.7	Theor.	3.6	Amplitude	2.020 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	10.8	Search (1024X32)	1.917	Search	1.917	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	24.7	Inc. seg. avg.	2.178	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.7	Inc. frq. avg.	2.131	Inc. seg. avg.	2.178	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
f: az 173.2 el 57.9 pa -5.4		l: az 170.3 el 52.5 pa -7.3		u,v (fr/asec)	268.263 -667.365	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

multiband delay (μ s)

Fringe quality 8

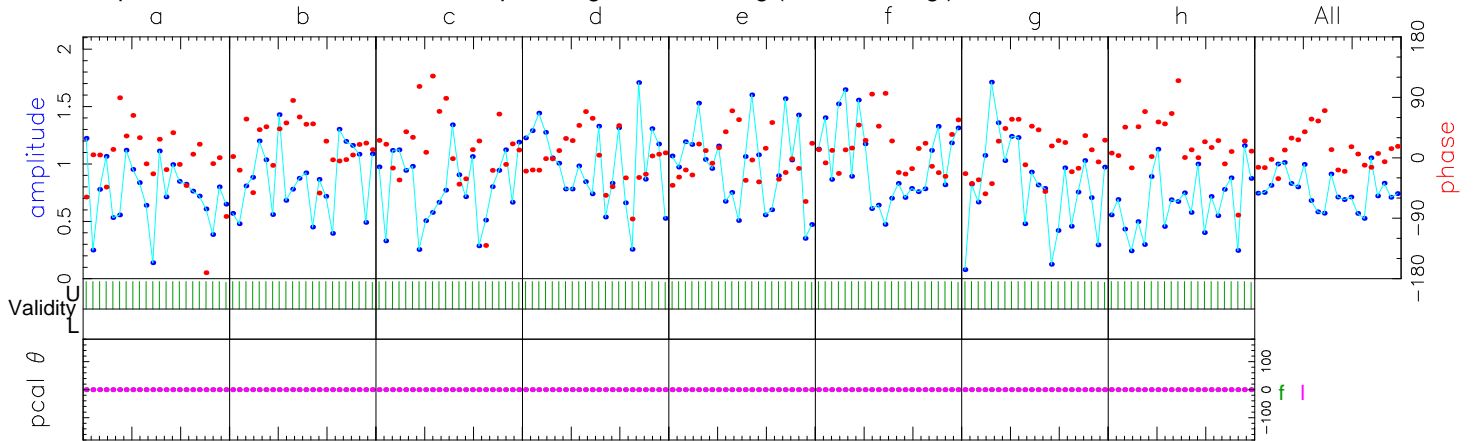


SNR 25.8
Int time 179.976
Amp 0.702
Phase 8.5
PFD 0.0e+00
Delays (us)
SBD 0.002764
MBD 0.002227
Fringe rate (Hz)
0.000867
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141917
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.13565444157E+03	Apriori delay (usec)	1.13565221432E+03	Resid mbdelay (usec)	2.22725E-03	+/-	4.2E-05
Sband delay (usec)	1.13565497807E+03	Apriori clock (usec)	8.3578453E+00	Resid sbdelay (usec)	2.76375E-03	+/-	3.3E-04
Phase delay (usec)	1.13565221459E+03	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	2.69453E-07	+/-	1.4E-07
Delay rate (us/s)	-4.61867538496E-02	Apriori rate (us/s)	-4.61867637107E-02	Resid rate (us/s)	9.86113E-09	+/-	1.3E-09
Total phase (deg)	270.3	Apriori accel (us/s/s)	-5.80331495808E-06	Resid phase (deg)	8.5	+/-	4.4

ph/seg (deg)	26.6	Theor.	10.4	Amplitude	0.702 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	23.1		18.2	Search (1024X32)	0.660	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	10.6		6.3	Inc. seg. avg.	0.758	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	18.6		11.0	Inc. frq. avg.	0.702	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	

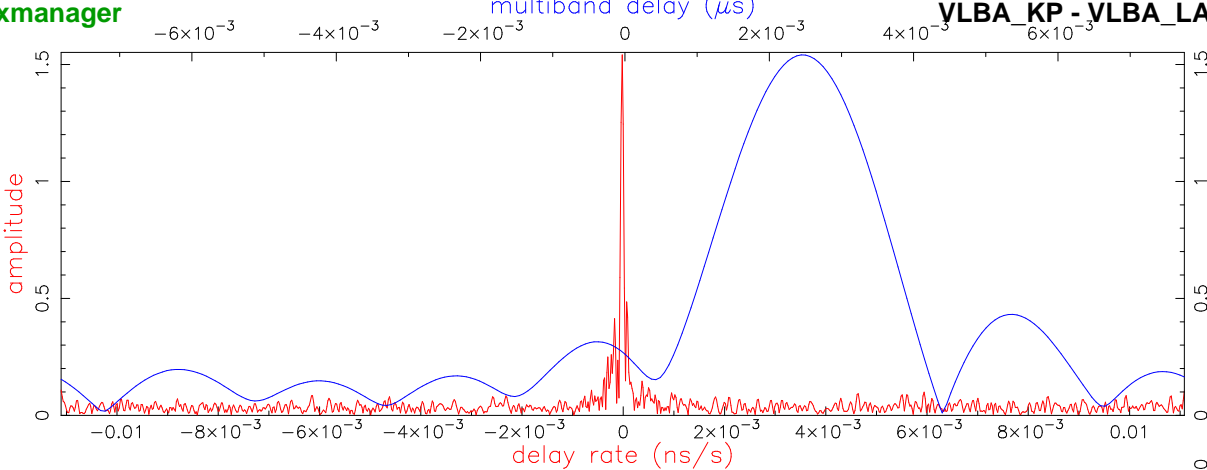
f: az 173.2 el 57.9 pa -5.4 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) 268.263 -667.365 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/fl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/fl.W.63.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

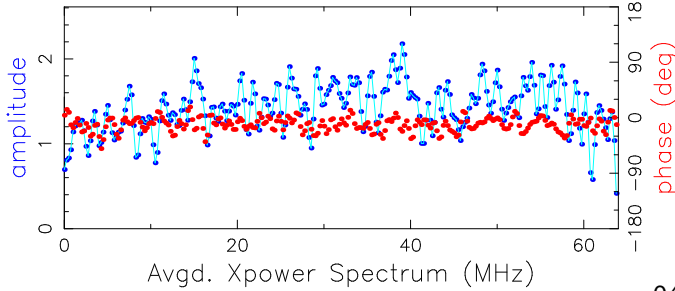
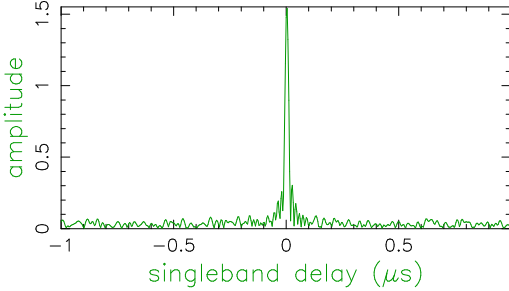
0420-014.1JLJ5P, No0075, kl

VLBA_KP - VLBA_LA, fgroup W, pol LL



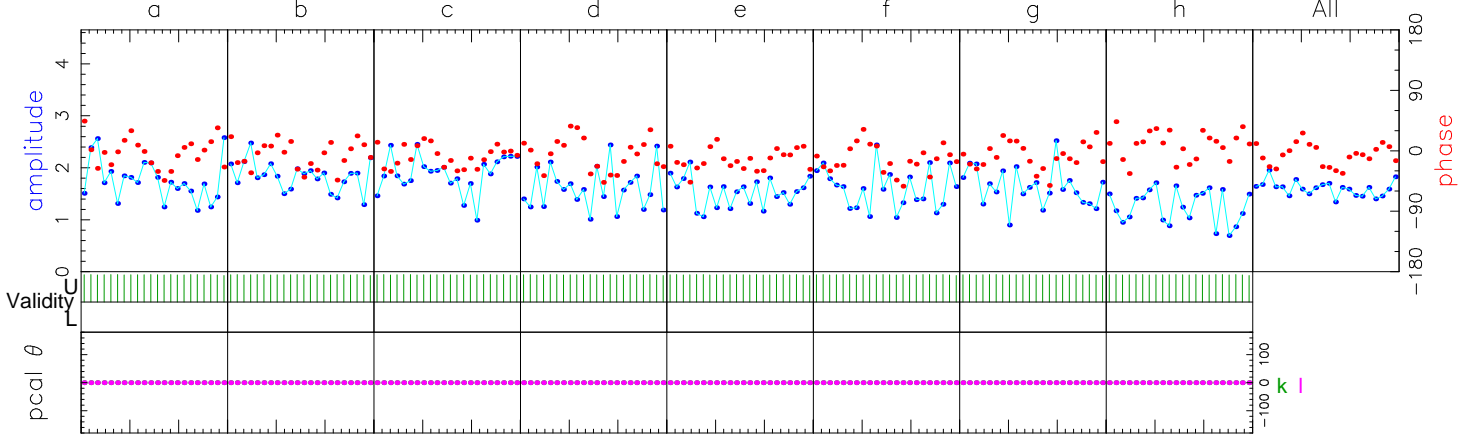
Fringe quality 8

SNR 56.7
 Int time 178.597
 Amp 1.552
 Phase -6.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.002835
 MBD 0.002445
 Fringe rate (Hz)
 -0.002193
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141913
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	5.69114355786E+02	Apriori delay (usec)	5.69111911014E+02	Resid mbdelay (usec)	2.44477E-03	+/-	1.9E-05
Sband delay (usec)	5.69114745764E+02	Apriori clock (usec)	7.6713753E-01	Resid sbdelay (usec)	2.83475E-03	+/-	1.5E-04
Phase delay (usec)	5.69111910805E+02	Apriori clockrate (us/s)	1.9999998E-07	Resid phdelay (usec)	-2.08981E-07	+/-	6.4E-08
Delay rate (us/s)	1.27634394191E-01	Apriori rate (us/s)	1.27634419132E-01	Resid rate (us/s)	-2.49415E-08	+/-	6.1E-10
Total phase (deg)	157.0	Apriori accel (us/s/s)	-2.88126695599E-06	Resid phase (deg)	-6.6	+/-	2.0

ph/seg (deg)	15.9	Theor.	4.7	Amplitude	1.552 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	9.6	Search (1024X32)	1.533	Search	1.533	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	8.0	Inc. seg. avg.	1.596	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.7	Inc. frq. avg.	1.548	Inc. seg. avg.	1.596	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1.548	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

k: az 160.0 el 55.1 pa -16.3 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -746.970 -496.401 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kl.W.22.1JLJ5P

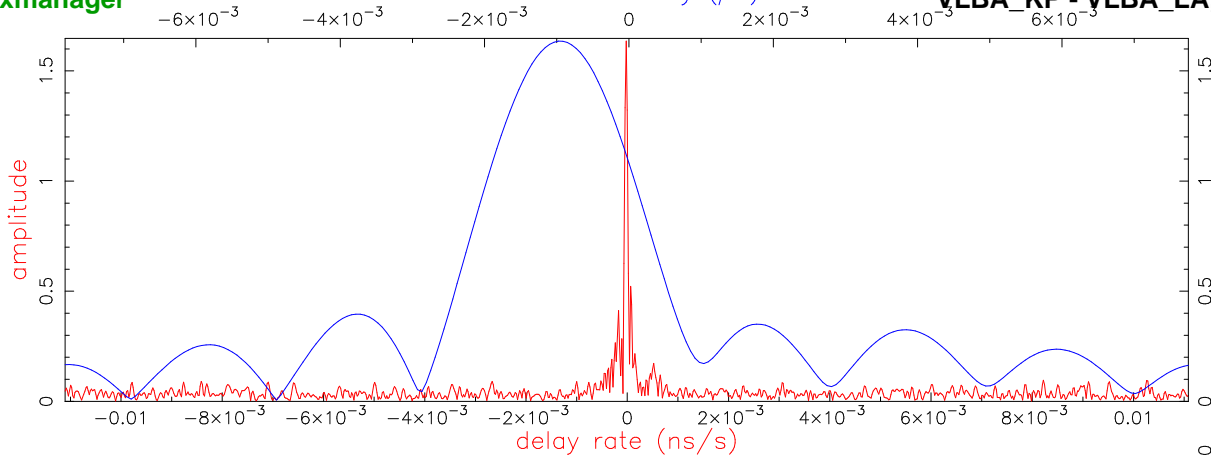
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, kl

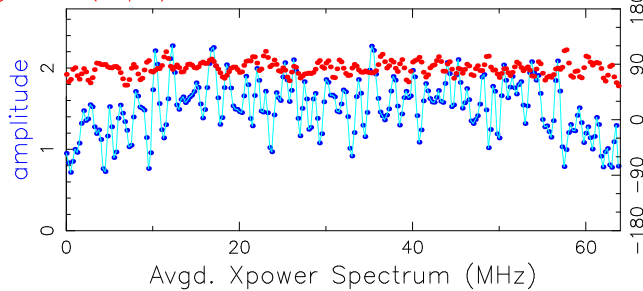
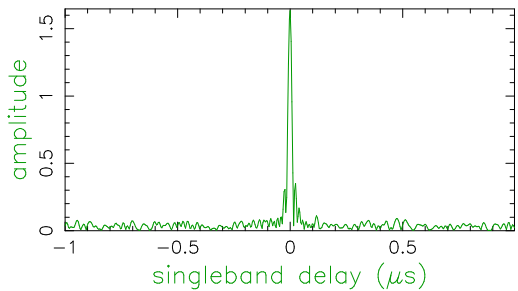
VLBA_KP - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



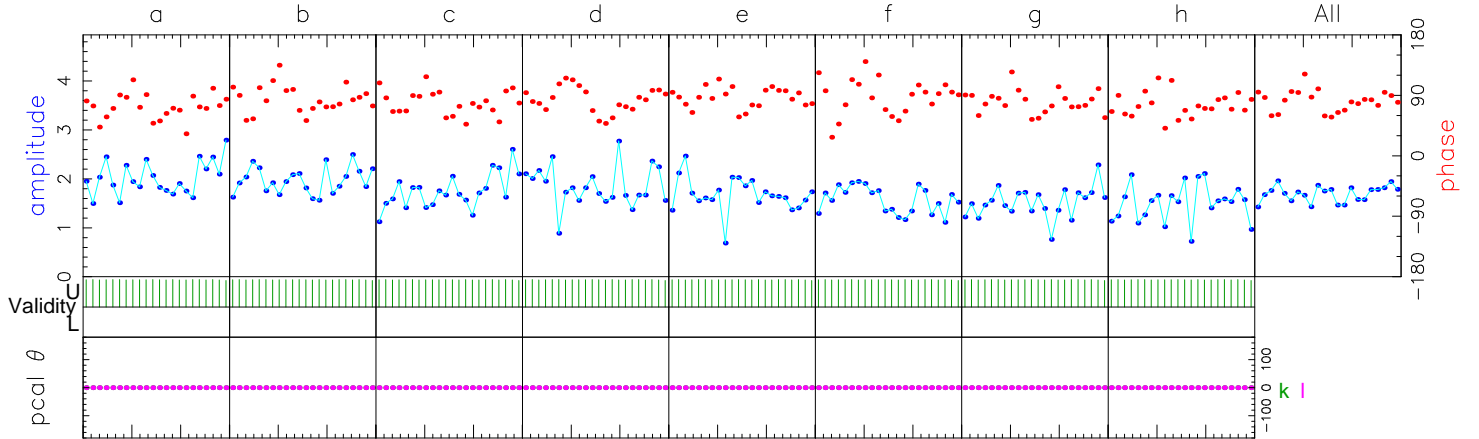
Fringe quality 8

SNR 60.2
 Int time 178.597
 Amp 1.648
 Phase 81.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.001127
 MBD -0.000978
 Fringe rate (Hz)
 -0.002256
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141915
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		5.69110933411E+02		Apriori delay (usec)	5.69111911014E+02		Resid mbdelay (usec)	-9.77603E-04	+/-	1.8E-05
Sband delay (usec)		5.69110784014E+02		Apriori clock (usec)	7.6713753E-01		Resid sbdelay (usec)	-1.12700E-03	+/-	1.4E-04
Phase delay (usec)		5.69111913586E+02		Apriori clockrate (us/s)	1.9999998E-07		Resid phdelay (usec)	2.57196E-06	+/-	6.0E-08
Delay rate (us/s)		1.27634393482E-01		Apriori rate (us/s)	1.27634419132E-01		Resid rate (us/s)	-2.56509E-08	+/-	5.8E-10
Total phase (deg)		245.1		Apriori accel (us/s/s)	-2.88126695599E-06		Resid phase (deg)	81.4	+/-	1.9

ph/seg (deg) 15.5 4.5 Amplitude 1.648 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 9.9 7.8 Search (1024X32) 1.623 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.8 2.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.1 4.7 Inc. seg. avg. 1.691 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 k: az 160.0 el 55.1 pa -16.3 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -746.970 -496.401 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kl.W.42.1JLJ5P

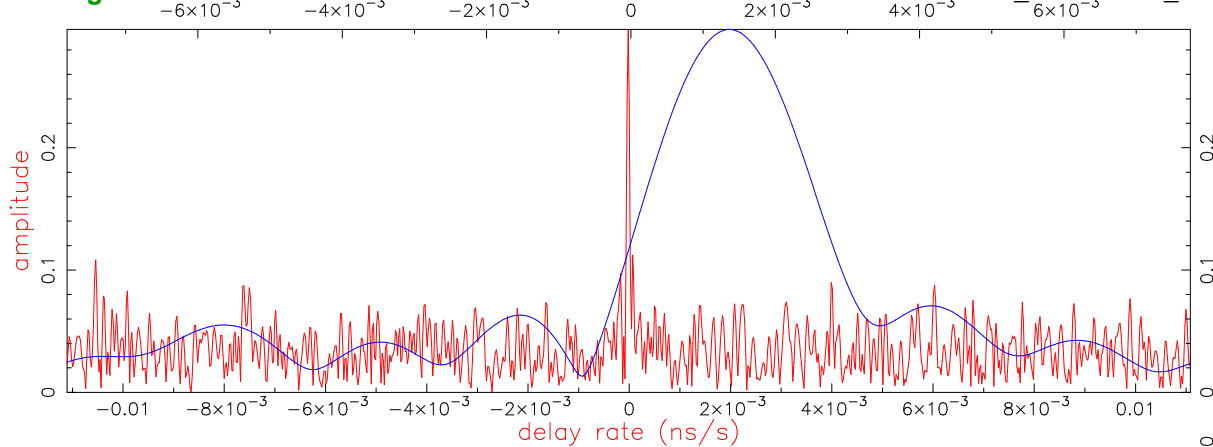
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, kl

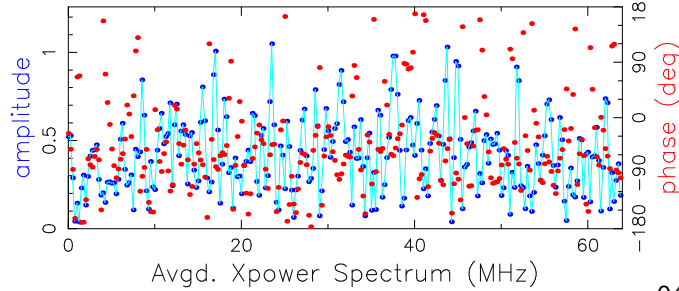
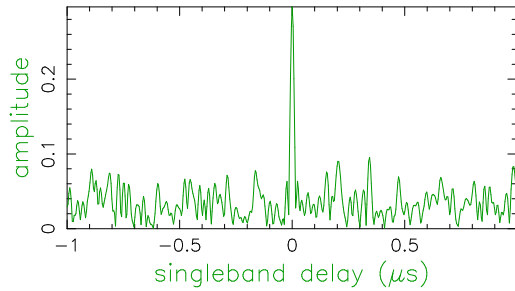
VLBA_KP - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



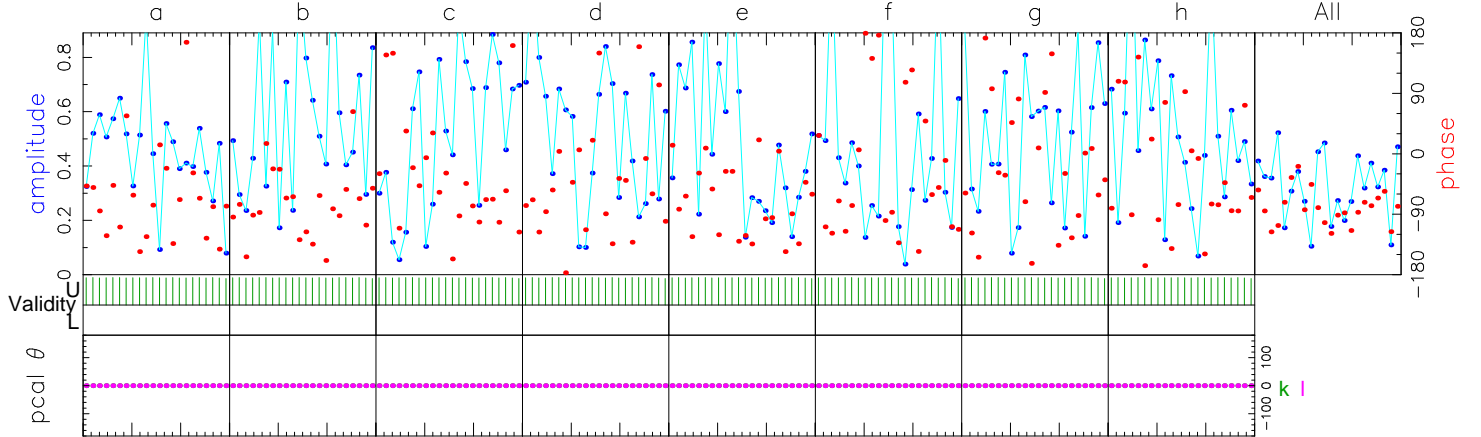
Fringe quality 9

SNR 10.8
 Int time 178.597
 Amp 0.297
 Phase -80.1
 PFD 4.7e-19
 Delays (us)
 SBD 0.000028
 MBD 0.001364
 Fringe rate (Hz)
 -0.002060
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141917
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	5.69113274598E+02		Apriori delay (usec)		5.69111911014E+02		Resid mbdelay (usec)		1.36358E-03	+/- 1.0E-04
Sband delay (usec)	5.69111938514E+02		Apriori clock (usec)		7.6713753E-01		Resid sbdelay (usec)		2.75000E-05	+/- 7.9E-04
Phase delay (usec)	5.69111908485E+02		Apriori clockrate (us/s)		1.9999998E-07		Resid phdelay (usec)		-2.52888E-06	+/- 3.3E-07
Delay rate (us/s)	1.27634395708E-01		Apriori rate (us/s)		1.27634419132E-01		Resid rate (us/s)		-2.34243E-08	+/- 3.2E-09
Total phase (deg)			83.6		Apriori accel (us/s/s)		-2.88126695599E-06		Resid phase (deg)	-80.1 +/- 10.6
ph/seg (deg)	RMS 26.3	Theor. 24.8	Amplitude 0.297 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	40.9	43.2	Search (1024X32) 0.295		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	12.3	14.9	Interp. 0.000		Bits/sample: 2x2		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
amp/frq (%)	22.4	26.1	Inc. seg. avg. 0.299		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
			Inc. frq. avg. 0.292							

k: az 160.0 el 55.1 pa -16.3 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -746.970 -496.401 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kl.W.61.1JLJ5P

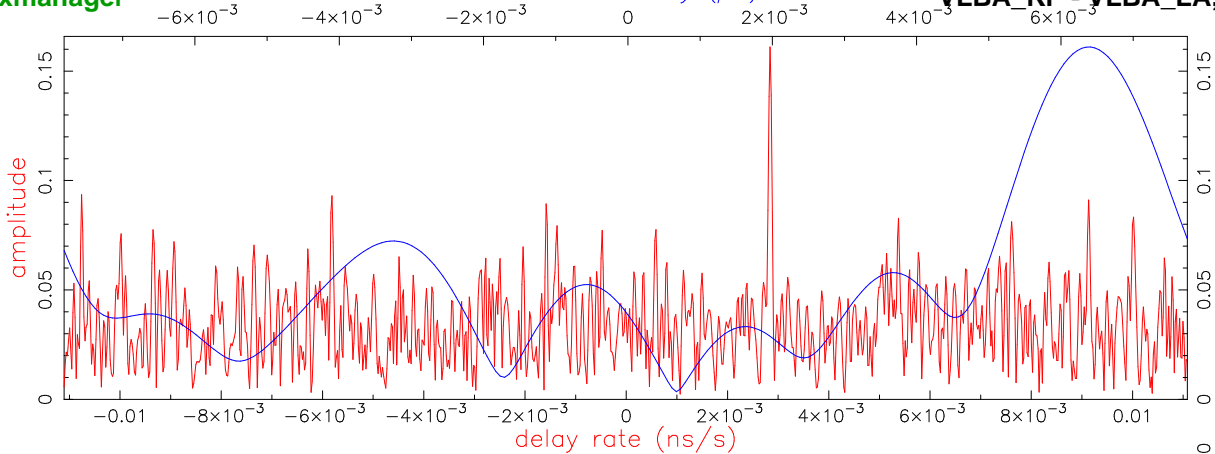
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, kl

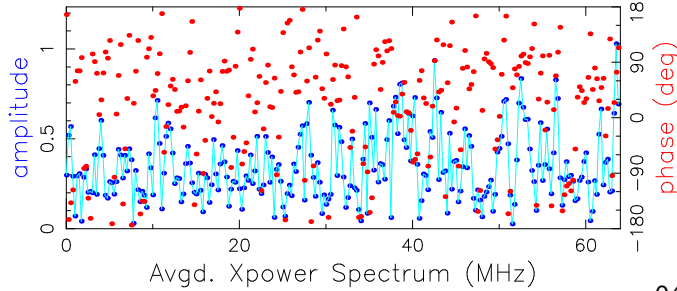
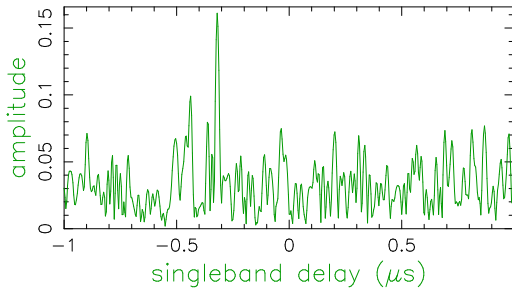
VLBA_KP - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



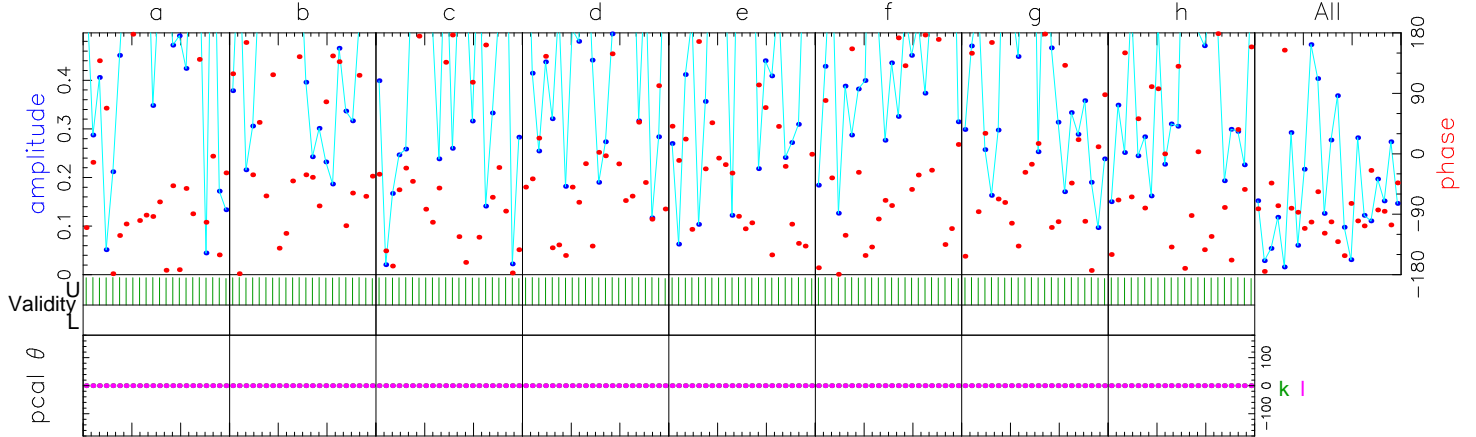
Fringe quality 0

SNR 5.9
 Int time 178.597
 Amp 0.166
 Phase -93.4
 PFD 3.7e-01
 Delays (us)
 SBD -0.319690
 MBD 0.006398
 Fringe rate (Hz)
 0.249667
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141919
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-106.5	-106.2	-106.2	-58.5	-54.9	-113.0	-80.5	-138.5	Phase	-93.4
	0.3	0.1	0.2	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
	176.7	164.0	349.2	174.3	402.4	368.0	298.2	159.6	Sbd box	175.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.68790183690E+02		Apriori delay (usec)		5.69111911014E+02		Resid mbdelay (usec)		6.39768E-03	+/- 1.8E-04
Sband delay (usec)	5.68792221014E+02		Apriori clock (usec)		7.6713753E-01		Resid sbdelay (usec)		-3.19690E-01	+/- 1.5E-03
Phase delay (usec)	5.69111908064E+02		Apriori clockrate (us/s)		1.9999998E-07		Resid phdelay (usec)		-2.94997E-06	+/- 6.1E-07
Delay rate (us/s)	1.27637258197E-01		Apriori rate (us/s)		1.27634419132E-01		Resid rate (us/s)		2.83906E-06	+/- 5.9E-09
Total phase (deg)	70.2		Apriori accel (us/s/s)		-2.88126695599E-06		Resid phase (deg)		-93.4	+/- 19.4

	RMS	Theor.	Amplitude	0.166 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	41.5	45.5	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	78.1	79.5	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	31.1	27.5	Inc. seg. avg.	0.142	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	37.2	47.9	Inc. frq. avg.	0.165					

k: az 160.0 el 55.1 pa -16.3 l: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) -746.970 -496.401 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kl..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kl.W.77.1JLJ5P

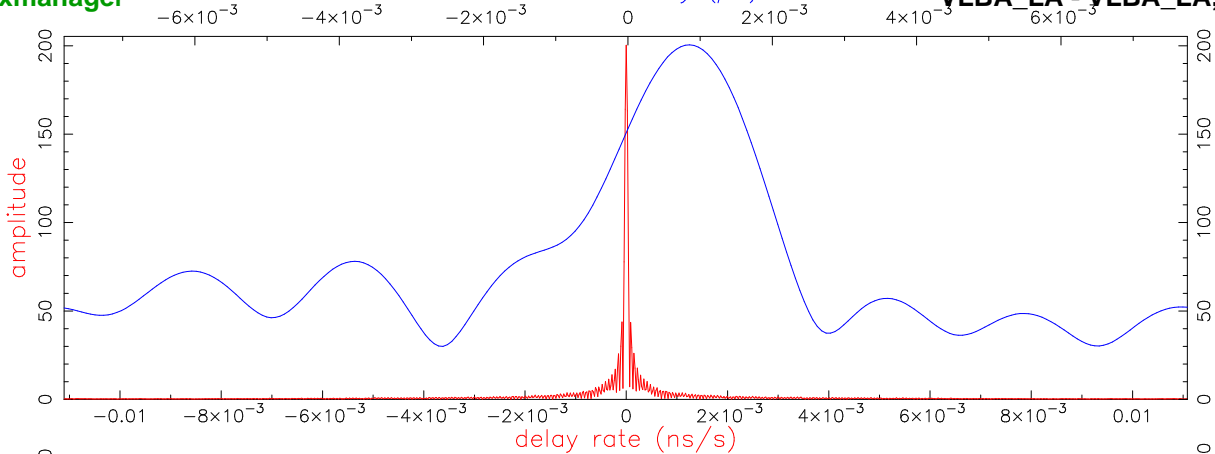
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, II

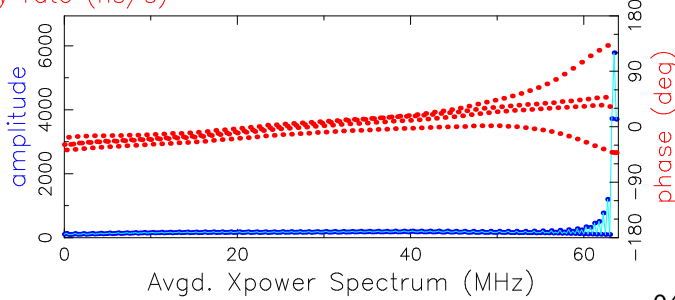
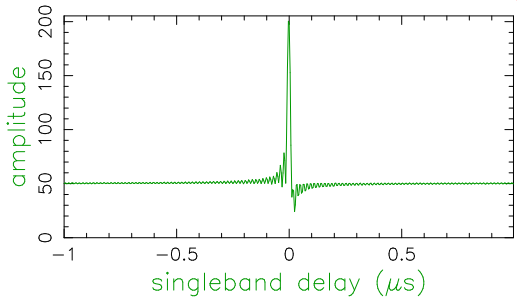
VLBA_LA - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



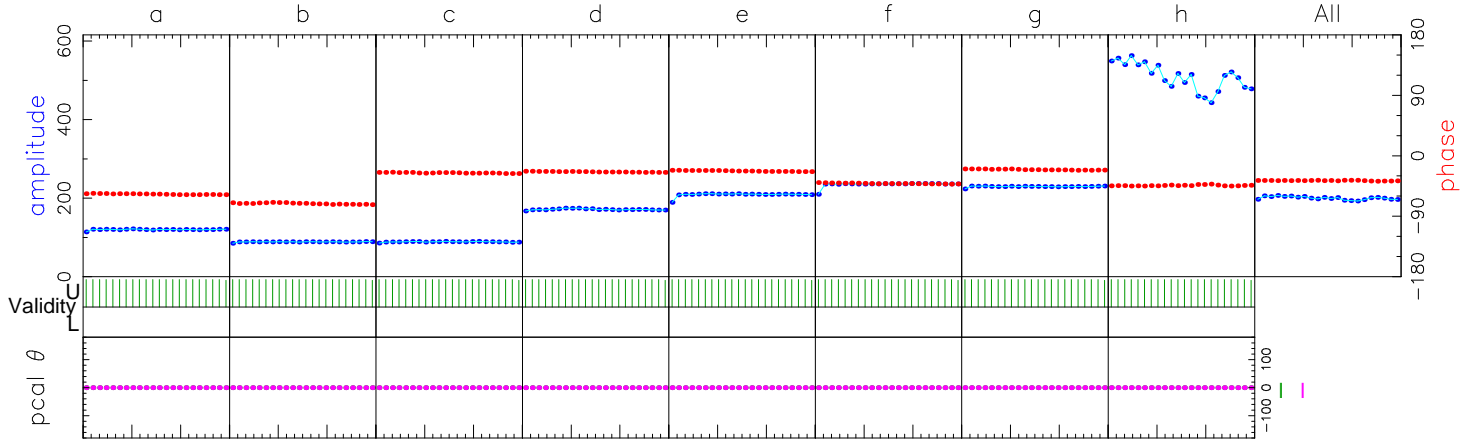
Fringe quality 6

SNR 7532.5
 Int time 179.977
 Amp 205.322
 Phase -36.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.002134
 MBD 0.000798
 Fringe rate (Hz)
 0.000027
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141923
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



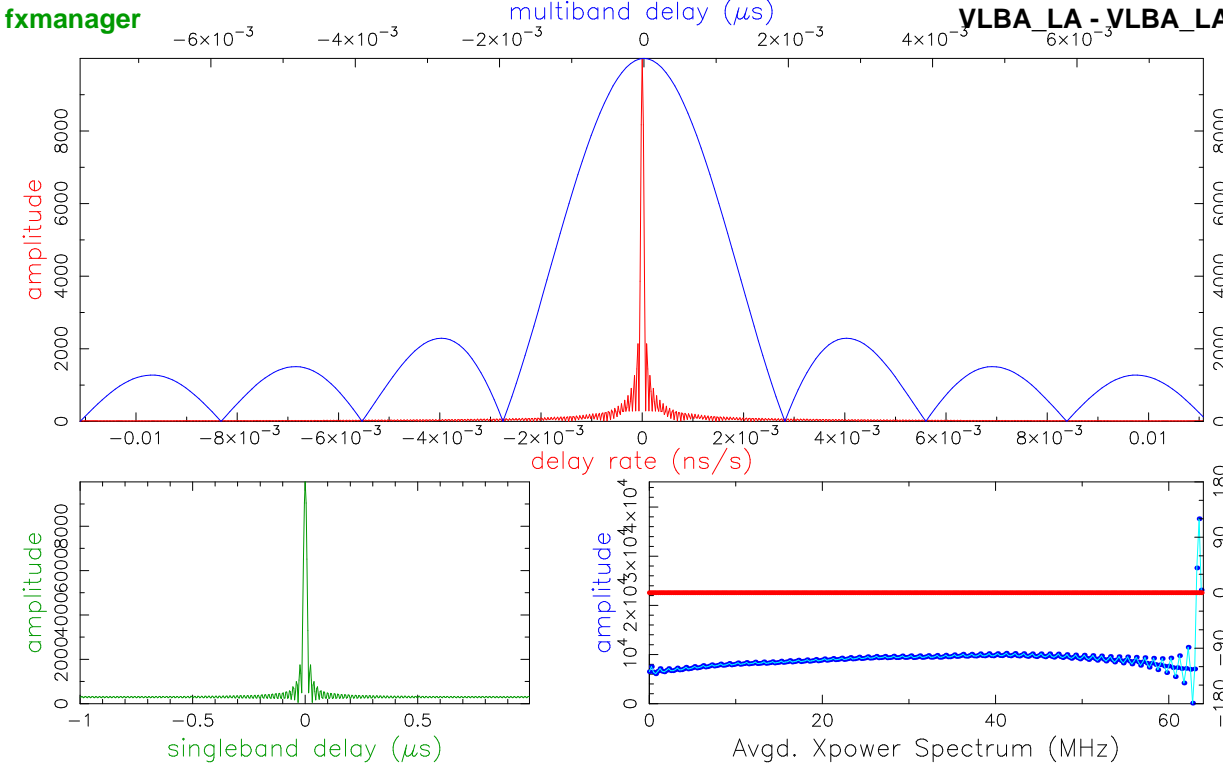
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000		
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
	1000	1000	1000	1000	1000	1000	1000	1000		
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	7.97781250000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	7.97781E-04	+/-	1.4E-07
Sband delay (usec)	-2.13400000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-2.13400E-03	+/-	1.1E-06
Phase delay (usec)	-1.16676423403E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.16676E-06	+/-	4.8E-10
Delay rate (us/s)	3.05383983107E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.05384E-10	+/-	4.6E-12
Total phase (deg)		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-36.9	+/-	0.0

ph/seg (deg)	0.4	0.0	Amplitude	205.322 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	3.1	0.1	Search (1024X32)	199.204	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	20.1	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	61.9	0.0	Inc. seg. avg.	200.322	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	206.488	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

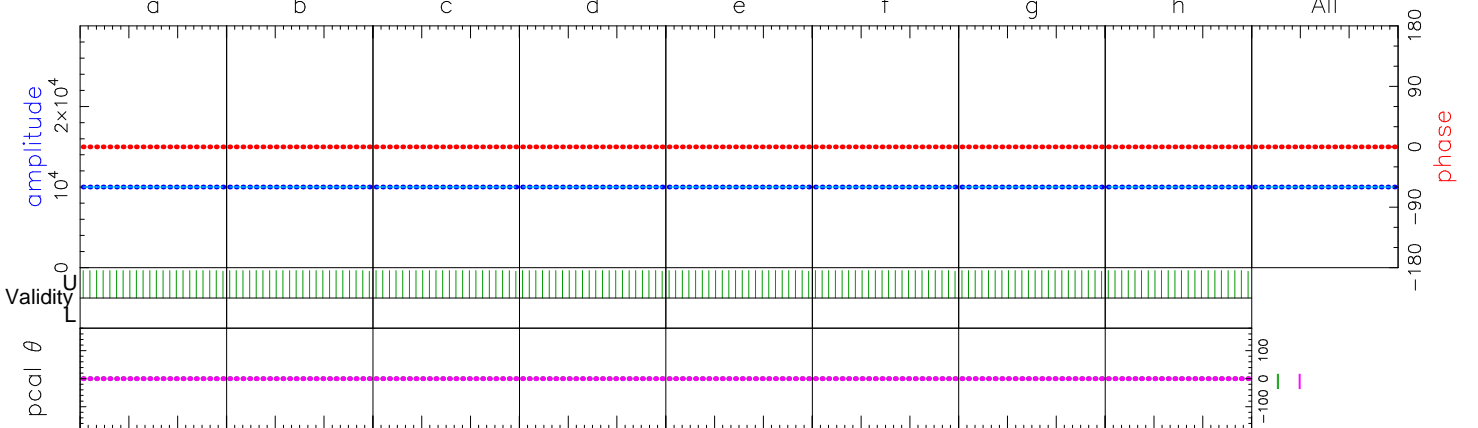
l: az 170.3 el 52.5 pa -7.3 i: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/II..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/II.W.107.1JLJ5P



Fringe quality 9
SNR 366864.5
Int time 179.977
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)
87940.0000
AP (sec) 0.512
Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141919
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 9.9E-12
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.5E-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 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (1024X32) 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

l: az 170.3 el 52.5 pa -7.3 i: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/II..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/II.W.76.1JLJ5P

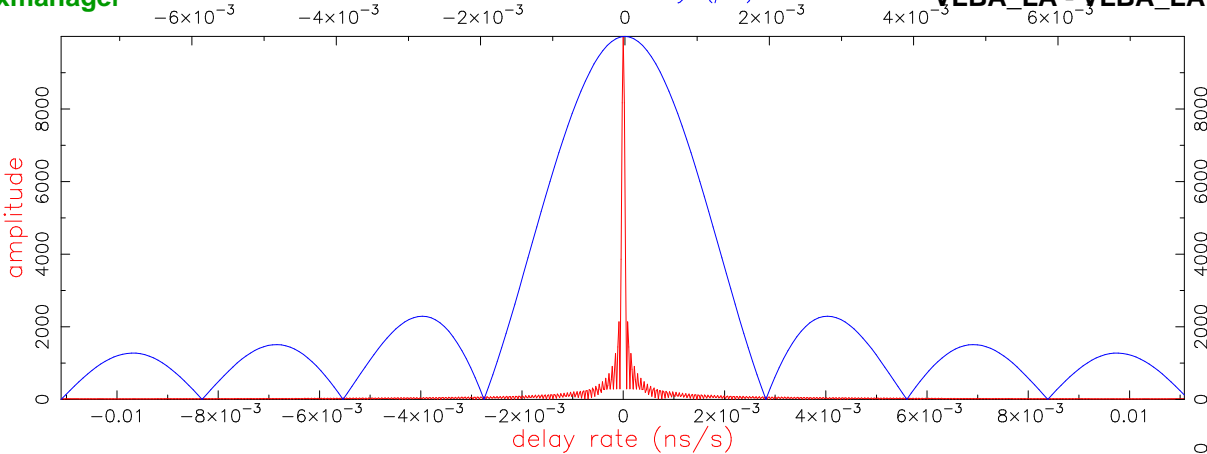
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, II

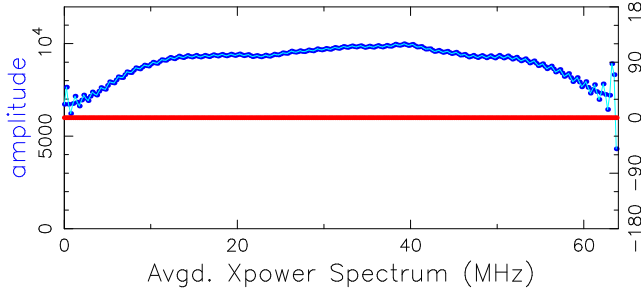
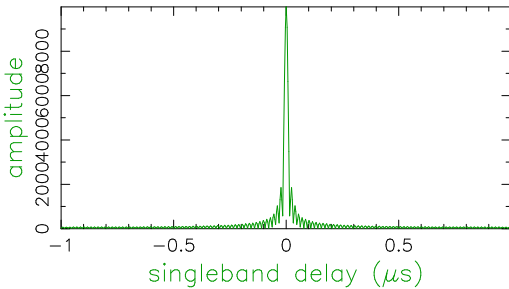
VLBA_LA - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



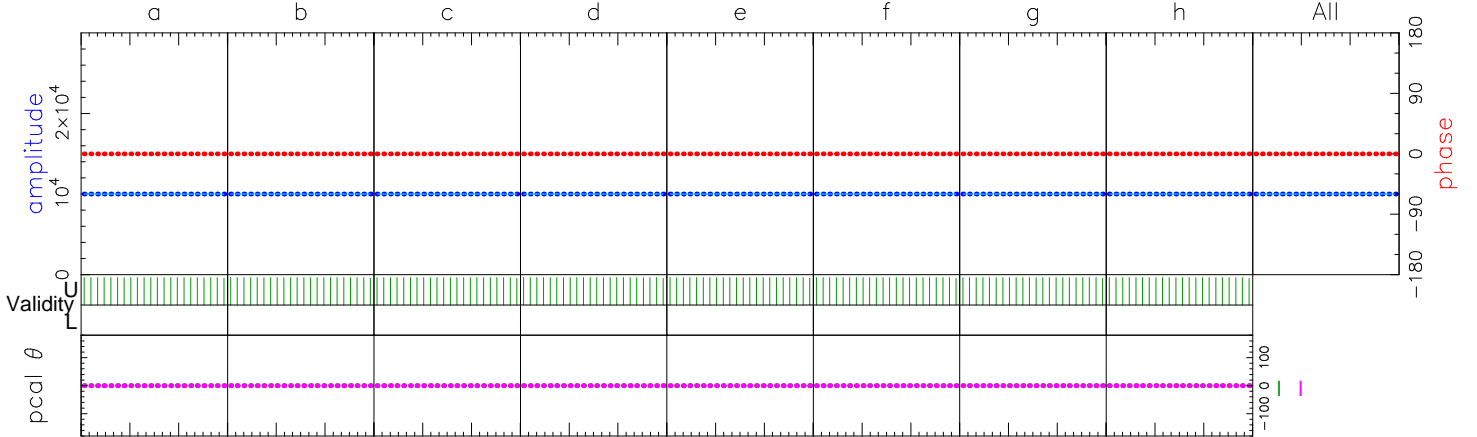
Fringe quality 9

SNR 366864.5
 Int time 179.977
 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)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141920
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

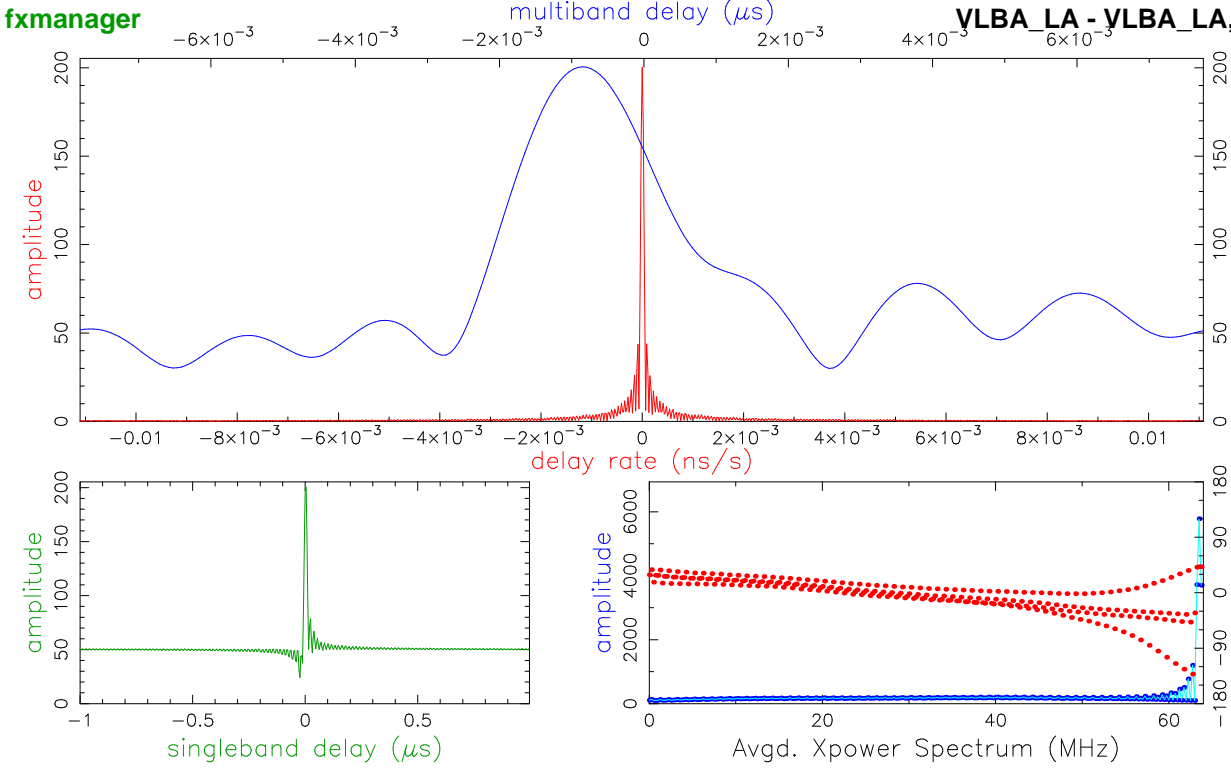


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 9.9E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

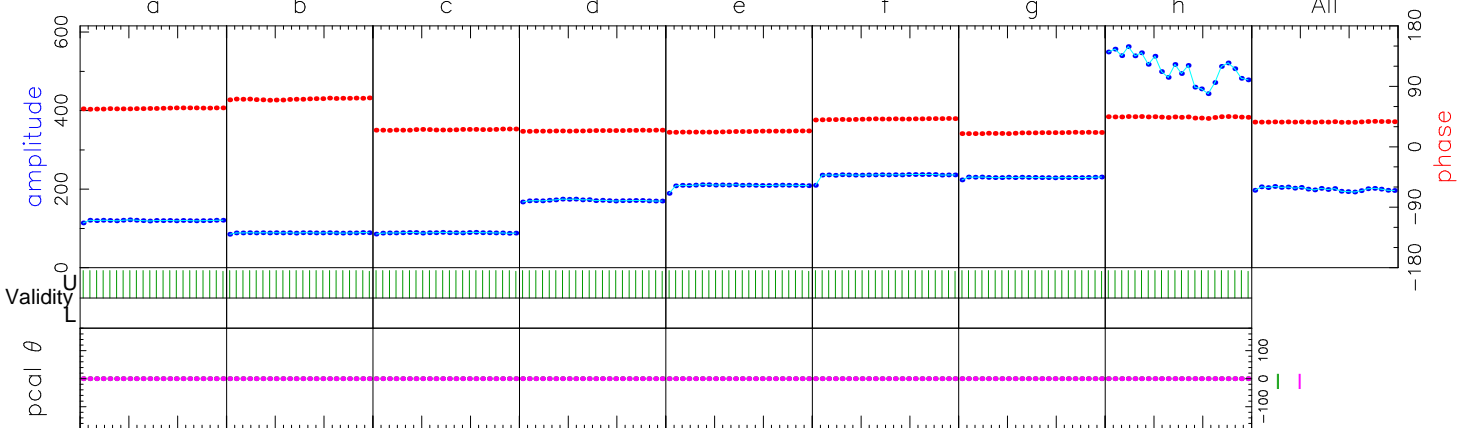
RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 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

l: az 170.3 el 52.5 pa -7.3 i: az 170.3 el 52.5 pa -7.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/II..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/II.W.83.1JLJ5P

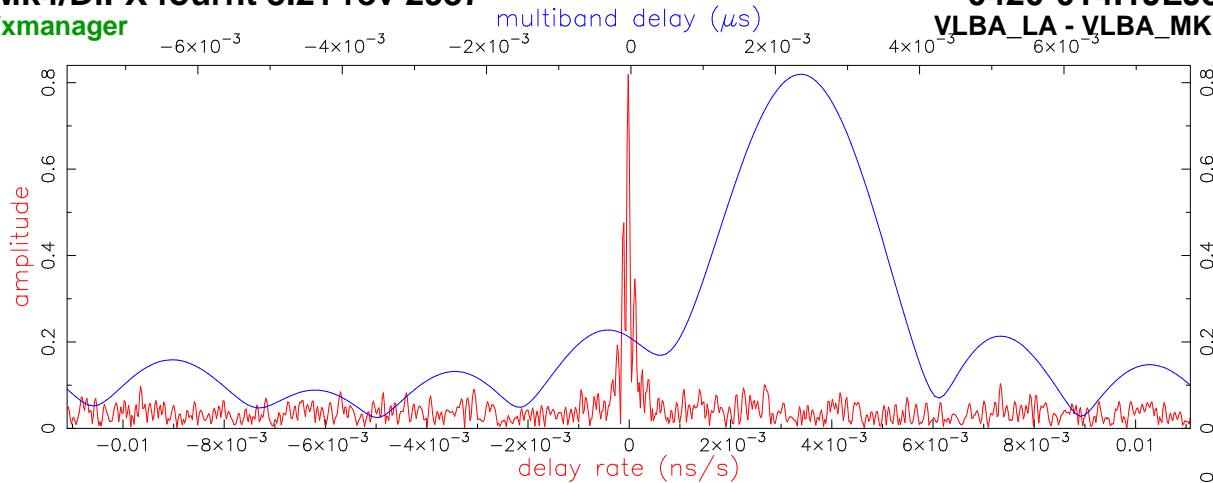


Fringe quality 6
SNR 7532.5
Int time 179.977
Amp 205.322
Phase 36.9
PFD 0.0e+00
Delays (us)
SBD 0.002134
MBD -0.000798
Fringe rate (Hz)
-0.000027
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512
Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141922
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

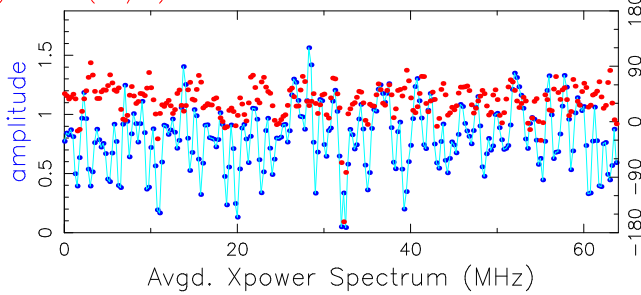
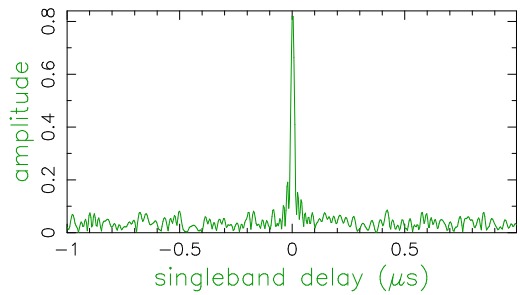


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)		-7.97781250000E-04							Resid mbdelay (usec)	-7.97781E-04 +/- 1.4E-07
Sband delay (usec)		2.13400000000E-03							Resid sbdelay (usec)	2.13400E-03 +/- 1.1E-06
Phase delay (usec)		1.16676423411E-06							Resid phdelay (usec)	1.16676E-06 +/- 4.8E-10
Delay rate (us/s)		-3.05383983107E-10							Resid rate (us/s)	-3.05384E-10 +/- 4.6E-12
Total phase (deg)			36.9						Resid phase (deg)	36.9 +/- 0.0
ph/seg (deg)	0.4	0.0							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	3.1	0.1							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	20.1	0.0							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	61.9	0.0							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
l: az 170.3 el 52.5 pa -7.3		l: az 170.3 el 52.5 pa -7.3		u, v (fr/asec) 0.000 0.000						simultaneous interpolator
Control file: cf_1234_88GHz_gmva		Input file: /Exps/c202c/v1/1234/No0075/II..1JLJ5P		Output file: /Exps/c202c/v1/1234/No0075/II.W.94.1JLJ5P						



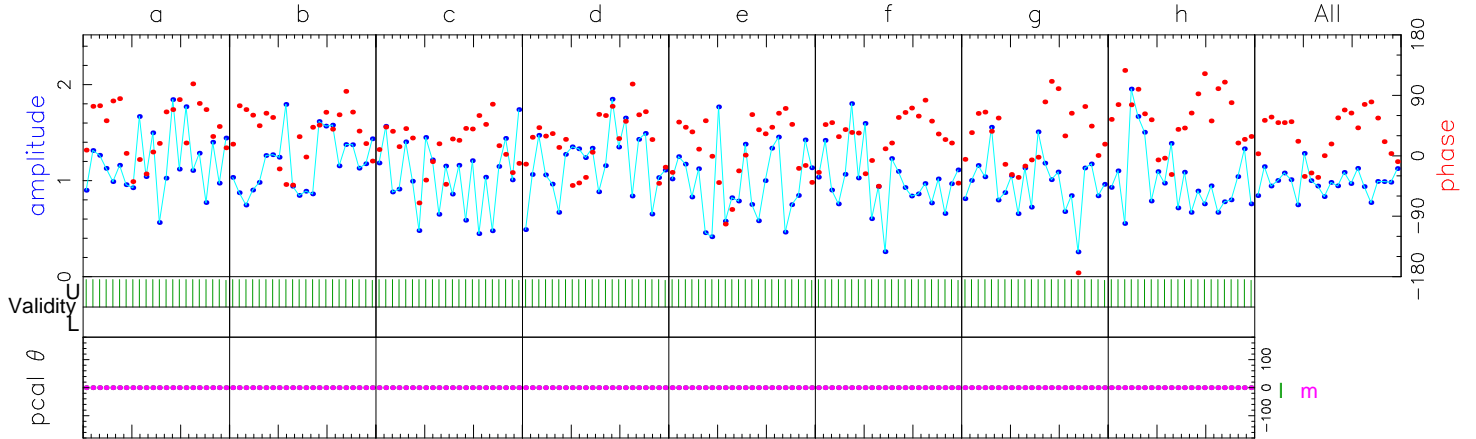
Fringe quality 7

SNR 30.8
Int time 179.977
Amp 0.840
Phase 31.0
PFD 0.0e+00
Delays (us)
SBD 0.001920
MBD 0.002302
Fringe rate (Hz)
-0.002081
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141923
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	5.50465433682E+03		Apriori delay (usec)		5.50465203436E+03		Resid mbdelay (usec)		2.30246E-03	+/- 3.5E-05
Sband delay (usec)	5.50465395411E+03		Apriori clock (usec)		-1.3806138E+01		Resid sbdelay (usec)		1.91975E-03	+/- 2.8E-04
Phase delay (usec)	5.50465203534E+03		Apriori clockrate (us/s)		-1.9999998E-07		Resid phdelay (usec)		9.78072E-07	+/- 1.2E-07
Delay rate (us/s)	-1.07133308066E+00		Apriori rate (us/s)		-1.07133305700E+00		Resid rate (us/s)		-2.36659E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.99692543172E-05		Resid phase (deg)		31.0	+/- 3.7

ph/seg (deg) 34.4 8.7 Search (1024X32) 0.816 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 23.0 15.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 16.2 5.3 Inc. seg. avg. 0.978 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 10.1 9.2 Inc. frq. avg. 0.839 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 170.3 el 52.5 pa -7.3 m: az 104.7 el 32.0 pa -65.5 u,v (fr/asec) 6245.008 2285.367 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/Im..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/Im.W.102.1JLJ5P

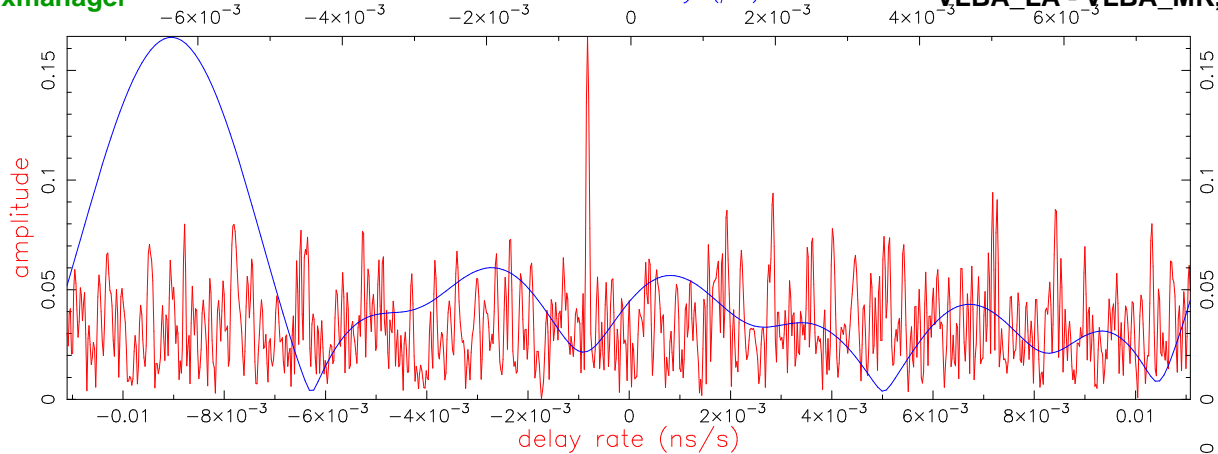
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, Im

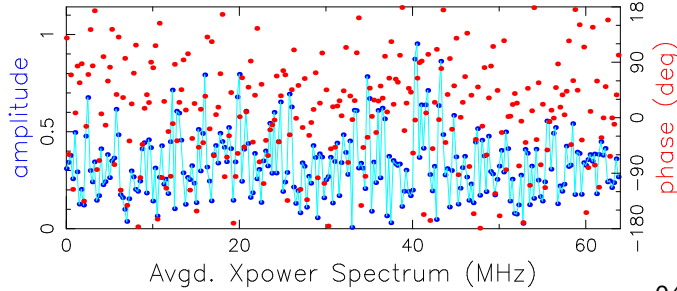
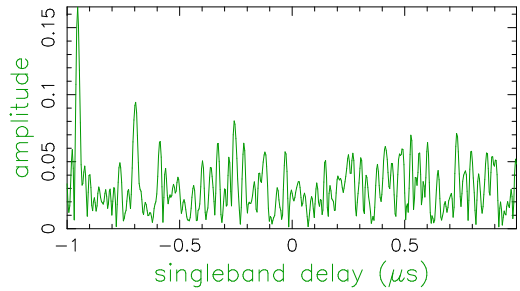
VLBA_LA - VLBA_MK, fgroup W, pol LR

multiband delay (μ s)



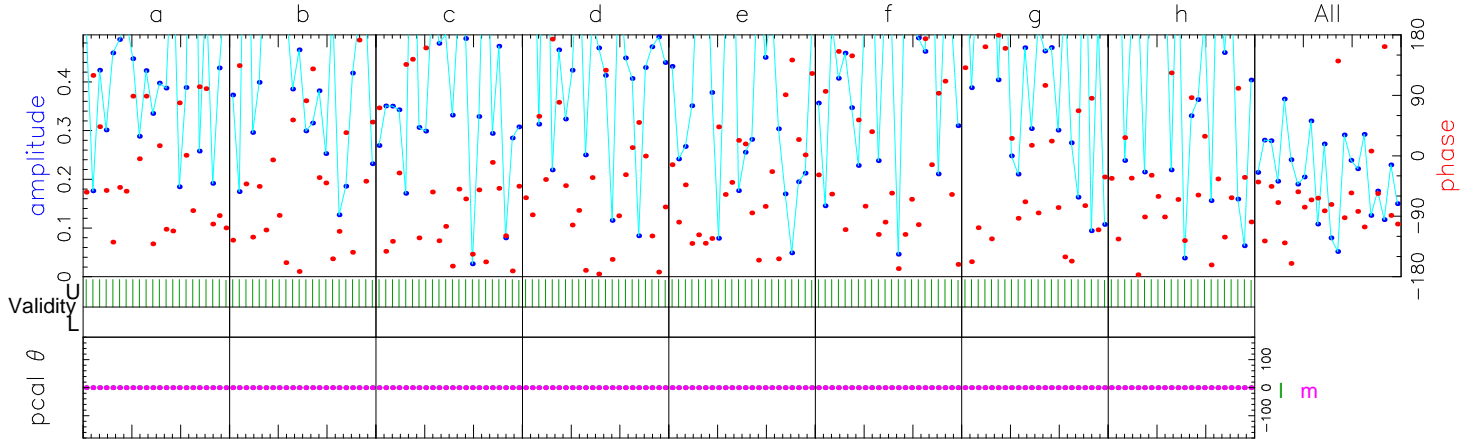
Fringe quality 0

SNR 6.1
 Int time 179.977
 Amp 0.166
 Phase -84.8
 PFD 1.6e-01
 Delays (us)
 SBD -0.953089
 MBD -0.006368
 Fringe rate (Hz)
 -0.072409
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141925
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-65.7	-92.1	-111.0	-71.2	-79.8	-80.0	-132.8	-63.9	Phase	-84.8
	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	Ampl.	0.2
	262.4	185.9	14.8	503.0	260.1	172.5	429.2	12.8	Sbd box	13.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 5.50369254121E+03 Apriori delay (usec) 5.50465203436E+03 Resid mbdelay (usec) -6.36815E-03 +/- 1.8E-04
 Sband delay (usec) 5.50369894536E+03 Apriori clock (usec) -1.3806138E+01 Resid sbdelay (usec) -9.53089E-01 +/- 1.4E-03
 Phase delay (usec) 5.50465203169E+03 Apriori clockrate (us/s) -1.9999998E-07 Resid phdelay (usec) -2.67843E-06 +/- 6.0E-07
 Delay rate (us/s) -1.07133388038E+00 Apriori rate (us/s) -1.07133305700E+00 Resid rate (us/s) -8.23386E-07 +/- 5.7E-09
 Total phase (deg) 239.9 Apriori accel (us/s/s) -2.99692543172E-05 Resid phase (deg) -84.8 +/- 18.9

RMS Theor. Amplitude 0.166 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.9 44.4 Search (1024X32) 0.164 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 55.6 77.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 26.1 26.7 Inc. seg. avg. 0.163 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 22.2 46.7 Inc. frq. avg. 0.161 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 170.3 el 52.5 pa -7.3 m: az 104.7 el 32.0 pa -65.5 u,v (fr/asec) 6245.008 2285.367 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lm..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lm.W.120.1JLJ5P

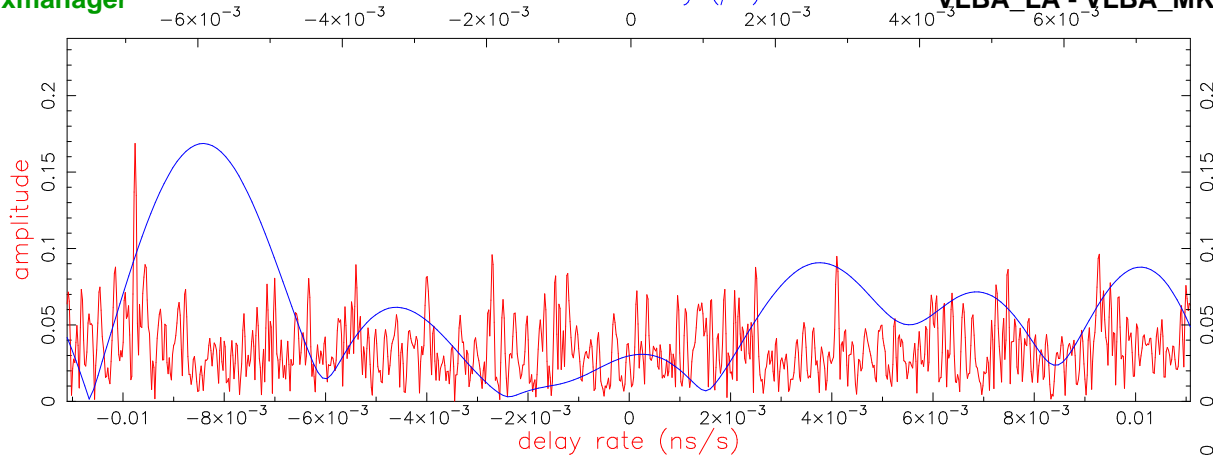
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, Im

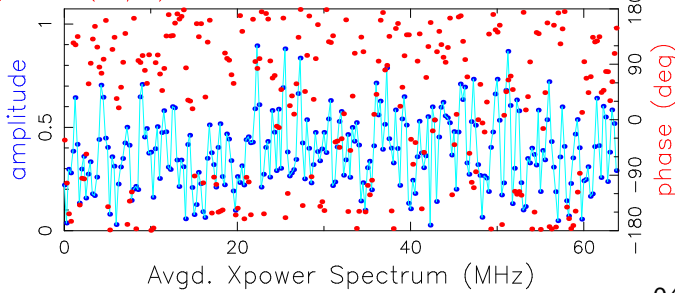
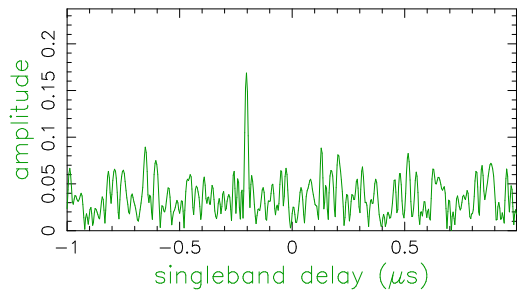
VLBA_LA - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)



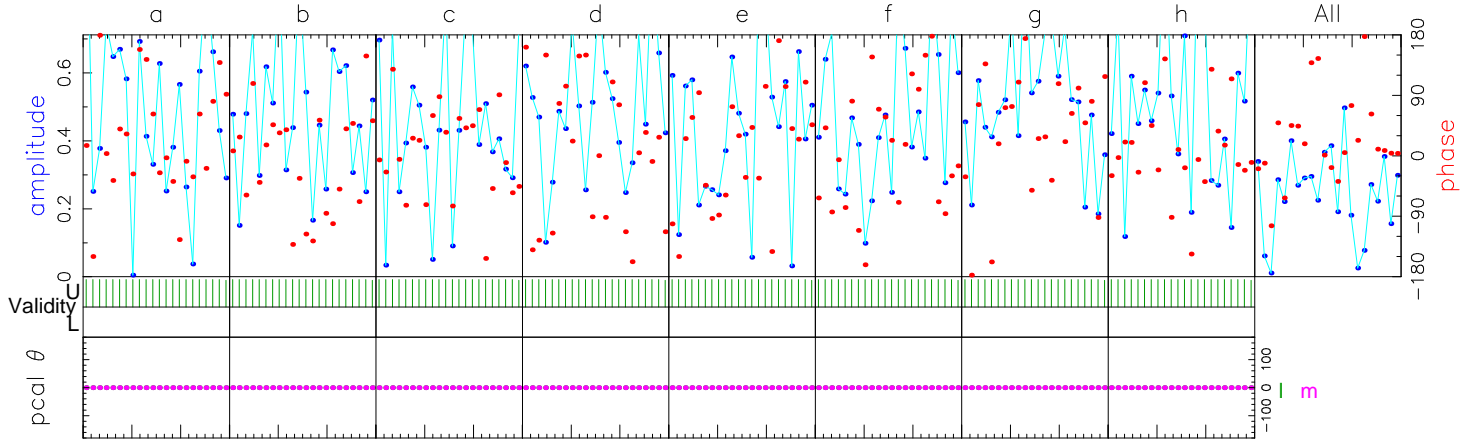
Fringe quality 0

SNR 6.2
 Int time 179.977
 Amp 0.237
 Phase 17.7
 PFD 7.8e-02
 Delays (us)
 SBD -0.203345
 MBD -0.005940
 Fringe rate (Hz)
 -0.859506
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141926
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



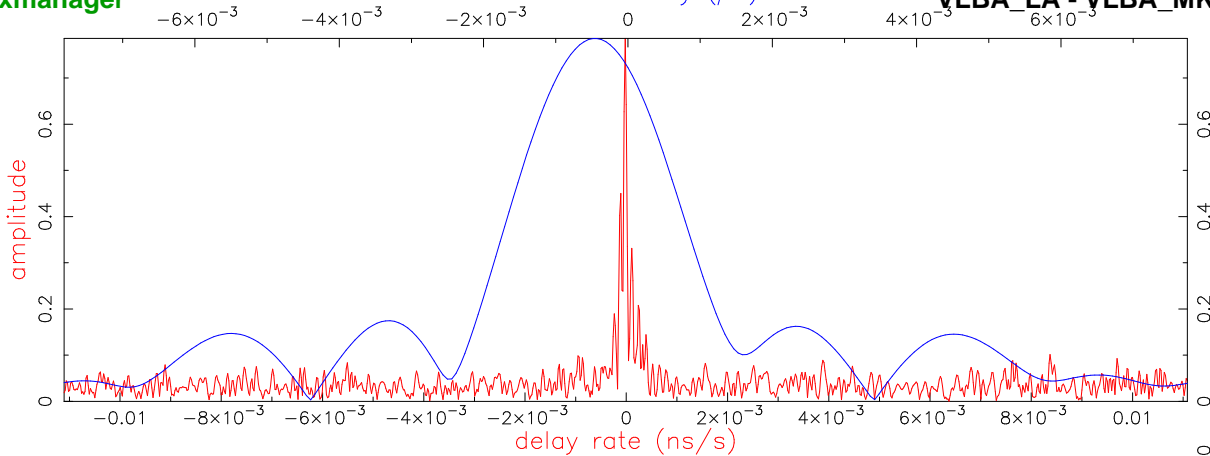
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	5.50444296957E+03		Apriori delay (usec)		5.50465203436E+03		Resid mbdelay (usec)		-5.93980E-03	+/- 1.8E-04
Sband delay (usec)	5.50444868936E+03		Apriori clock (usec)		-1.3806138E+01		Resid sbdelay (usec)		-2.03345E-01	+/- 1.4E-03
Phase delay (usec)	5.50465203492E+03		Apriori clockrate (us/s)		-1.9999998E-07		Resid phdelay (usec)		5.59692E-07	+/- 5.8E-07
Delay rate (us/s)	-1.07134283078E+00		Apriori rate (us/s)		-1.07133305700E+00		Resid rate (us/s)		-9.77378E-06	+/- 5.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.99692543172E-05		Resid phase (deg)		17.7	+/- 18.5

	RMS	Theor.	Amplitude	0.237 +/- 0.038	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	65.0	43.4	Search (1024X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	86.5	75.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	28.5	26.2	Inc. seg. avg.	0.270	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	45.4	45.7	Inc. frq. avg.	0.237	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 170.3 el 52.5 pa -7.3 m: az 104.7 el 32.0 pa -65.5 u,v (fr/asec) 6245.008 2285.367 simultaneous interpolator

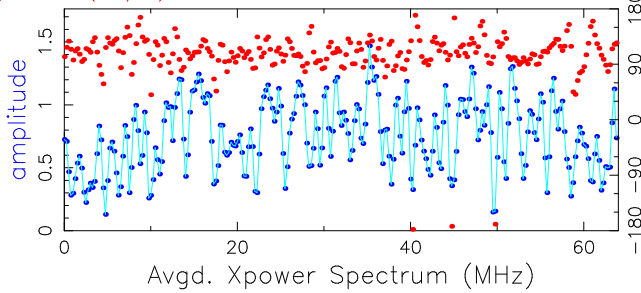
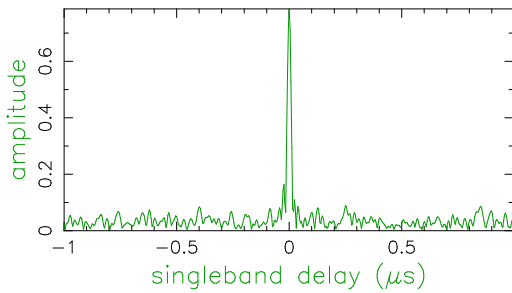
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lm..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lm.W.133.1JLJ5P

multiband delay (μ s)



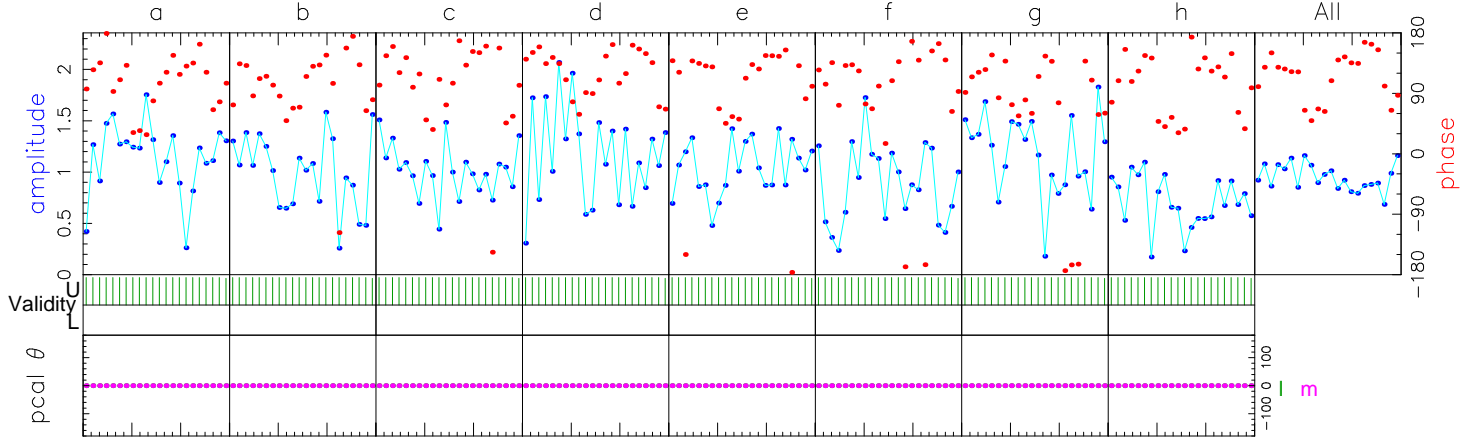
Fringe quality 8

SNR 28.8
Int time 179.977
Amp 0.786
Phase 113.6
PFD 0.0e+00
Delays (us)
SBD -0.000146
MBD -0.000460
Fringe rate (Hz)
-0.002159
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141921
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	5.50465157417E+03	Apriori delay (usec)	5.50465203436E+03	Resid mbdelay (usec)	-4.60196E-04	+/-	3.8E-05
Sband delay (usec)	5.50465188786E+03	Apriori clock (usec)	-1.3806138E+01	Resid sbdelay (usec)	-1.46500E-04	+/-	3.0E-04
Phase delay (usec)	5.50465203795E+03	Apriori clockrate (us/s)	-1.9999998E-07	Resid phdelay (usec)	3.58850E-06	+/-	1.3E-07
Delay rate (us/s)	-1.07133308155E+00	Apriori rate (us/s)	-1.07133305700E+00	Resid rate (us/s)	-2.45515E-08	+/-	1.2E-09
Total phase (deg)	78.3	Apriori accel (us/s/s)	-2.99692543172E-05	Resid phase (deg)	113.6	+/-	4.0

ph/seg (deg)	RMS 34.5	Theor. 9.3	Amplitude Search (1024X32)	0.786 +/- 0.027	0.782	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	26.3	16.3	Interp.	0.000	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	9.1	5.6	Inc. seg. avg.	0.938	0.938	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	16.6	9.8	Inc. frq. avg.	0.789	0.789	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

l: az 170.3 el 52.5 pa -7.3 m: az 104.7 el 32.0 pa -65.5 u,v (fr/asec) 6245.008 2285.367 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lm..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lm.W.86.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

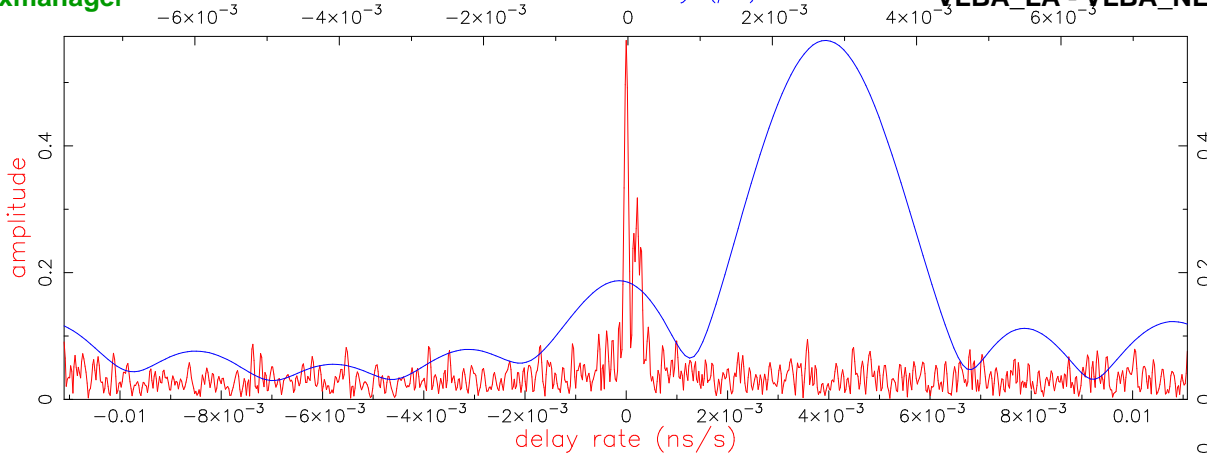
fxmanager

0420-014.1JLJ5P, No0075, In

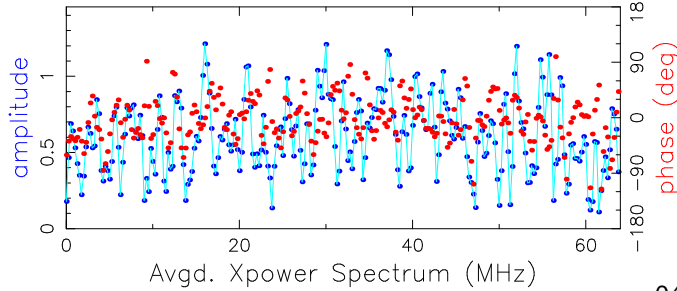
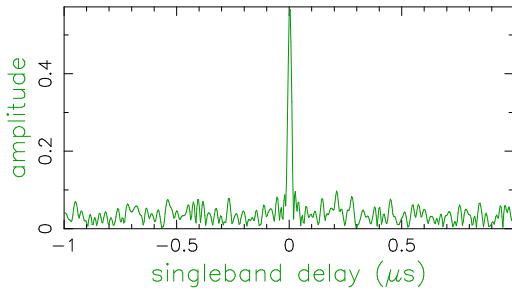
VLBA_LA - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 9

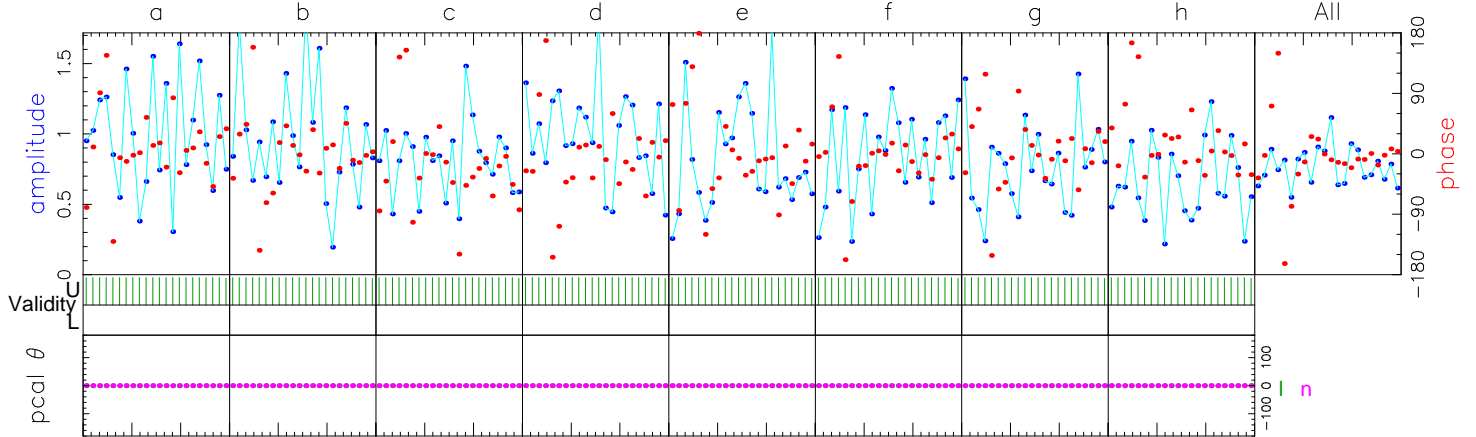


SNR 21.0
 Int time 179.977
 Amp 0.573
 Phase -5.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.002513
 MBD 0.002712
 Fringe rate (Hz)
 -0.000711
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141923
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.55429533790E+03			1.55429262555E+03				2.71234E-03	+/- 5.2E-05
Sband delay (usec)		1.55429513830E+03			-6.6041374E-01				2.51275E-03	+/- 4.1E-04
Phase delay (usec)		1.55429262540E+03			-6.0000003E-07				-1.57117E-03	+/- 1.7E-07
Delay rate (us/s)		3.05489242066E-01			3.05489250156E-01				-8.08990E-09	+/- 1.7E-09
Total phase (deg)			171.8		-8.06102029455E-06				-5.0	+/- 5.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
ph/seg (deg)	54.1	12.8			0.573 +/- 0.027					
amp/seg (%)	41.7	22.3			0.000					
ph/frq (deg)	14.5	7.7			0.754					
amp/frq (%)	13.2	13.5			0.574					
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
l: az 170.3 el 52.5 pa -7.3										
n: az 192.7 el 46.2 pa 9.5										
u,v (fr/asec)										
Control file: cf_1234_88GHz_gmva										
Input file: /Exps/c202c/v1/1234/No0075/In..1JLJ5P										
Output file: /Exps/c202c/v1/1234/No0075/In.W.101.1JLJ5P										
										simultaneous interpolator

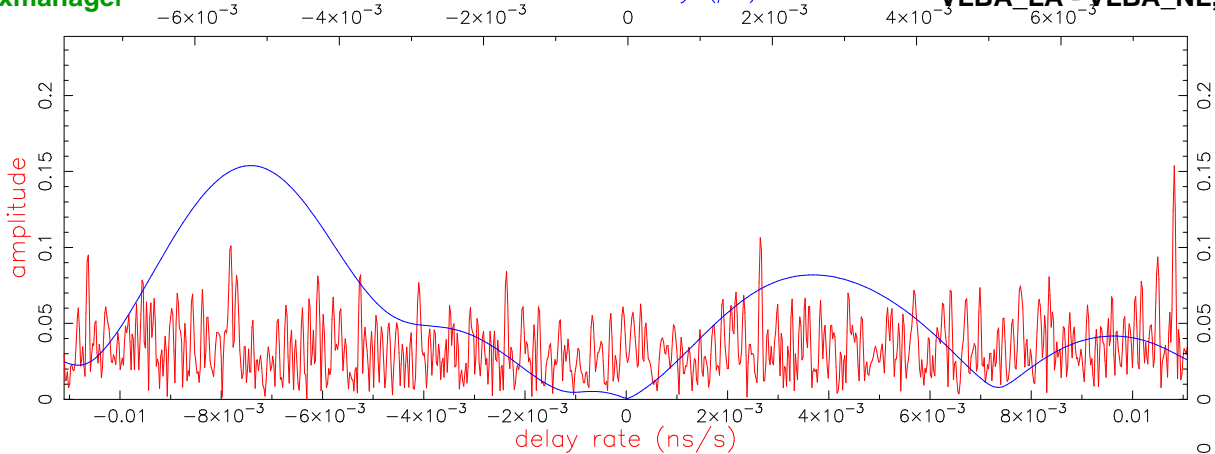
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, In

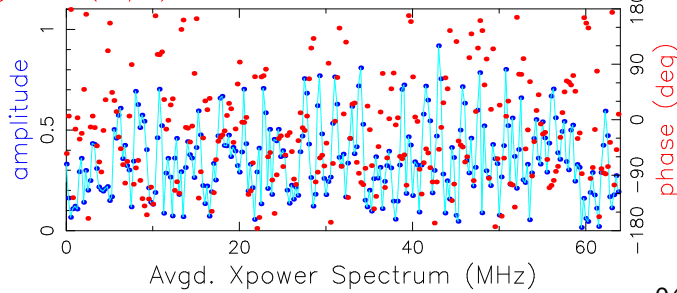
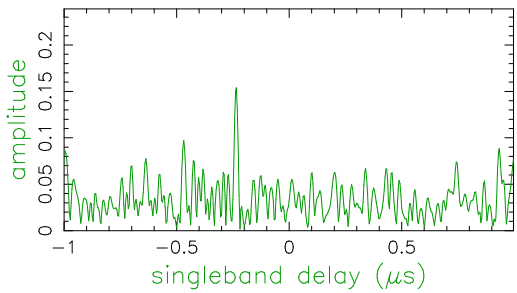
VLBA_LA - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)



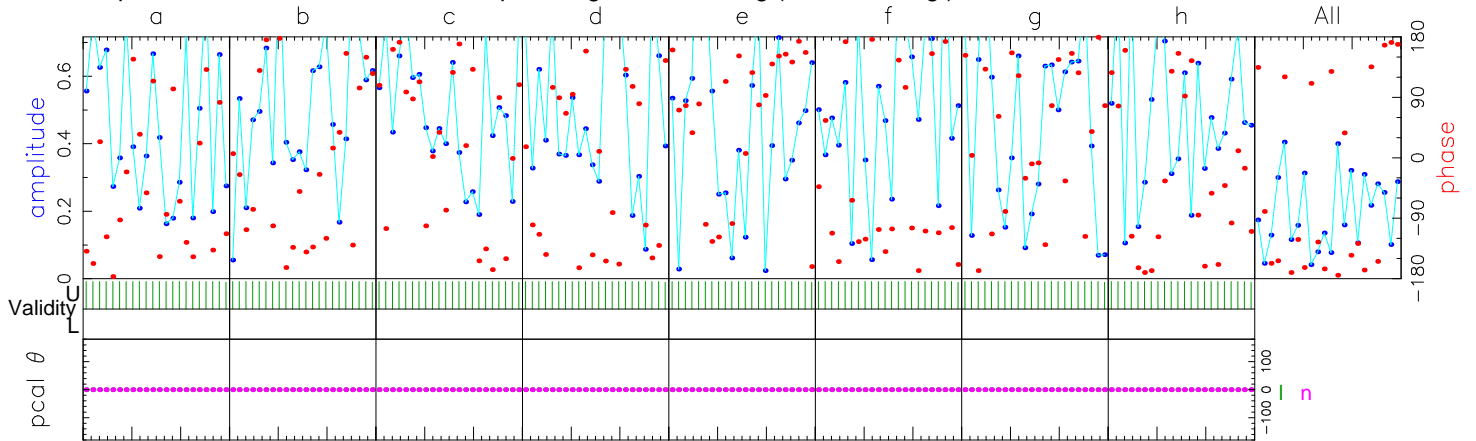
Fringe quality 0

SNR 5.7
 Int time 179.977
 Amp 0.239
 Phase -177.9
 PFD 7.4e-01
 Delays (us)
 SBD -0.235865
 MBD -0.005287
 Fringe rate (Hz)
 0.952269
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141925
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
l	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
l	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.55405296316E+03			1.55429262555E+03				Resid mbdelay (usec)	-5.28740E-03	+/- 1.9E-04
Sband delay (usec)		1.55405676055E+03			-6.6041374E-01				Resid sbdelay (usec)	-2.35865E-01	+/- 1.5E-03
Phase delay (usec)		1.55429261993E+03			-6.0000003E-07				Resid phdelay (usec)	-5.61875E-06	+/- 6.3E-07
Delay rate (us/s)		3.05500078776E-01			3.05489250156E-01				Resid rate (us/s)	1.08286E-05	+/- 6.1E-09
Total phase (deg)			-1.1		-8.06102029455E-06				Resid phase (deg)	-177.9	+/- 20.0

ph/seg (deg) 51.9 47.0 Search (1024X32) 0.149 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.2 82.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.4 28.3 Inc. seg. avg. 0.230 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.5 49.5 Inc. frq. avg. 0.253 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 170.3 el 52.5 pa -7.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1789.301 -724.987 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/in..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/in.W.121.1JLJ5P

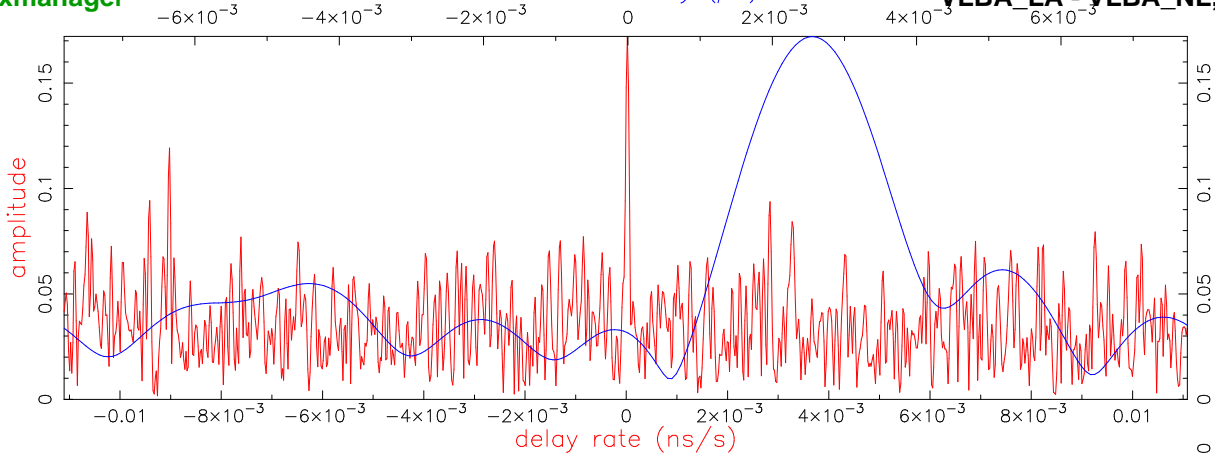
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, In

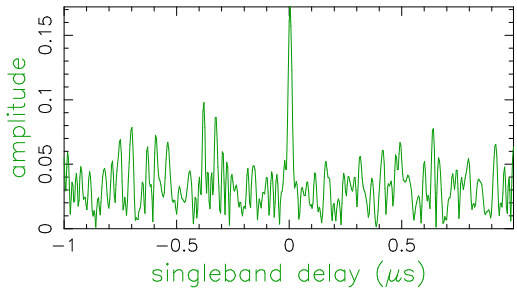
VLBA_LA - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)

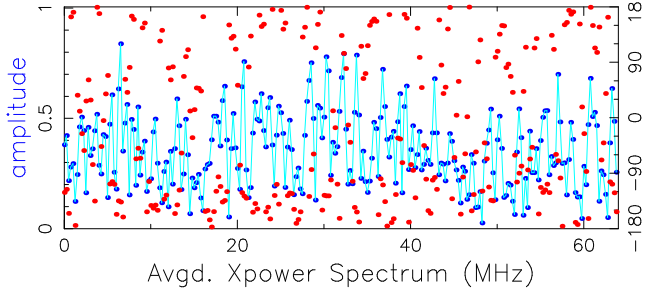


Fringe quality 0

SNR 6.3
 Int time 179.977
 Amp 0.172
 Phase -137.9
 PFD 3.6e-02
 Delays (us)
 SBD 0.003564
 MBD 0.002548
 Fringe rate (Hz) 0.002537
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



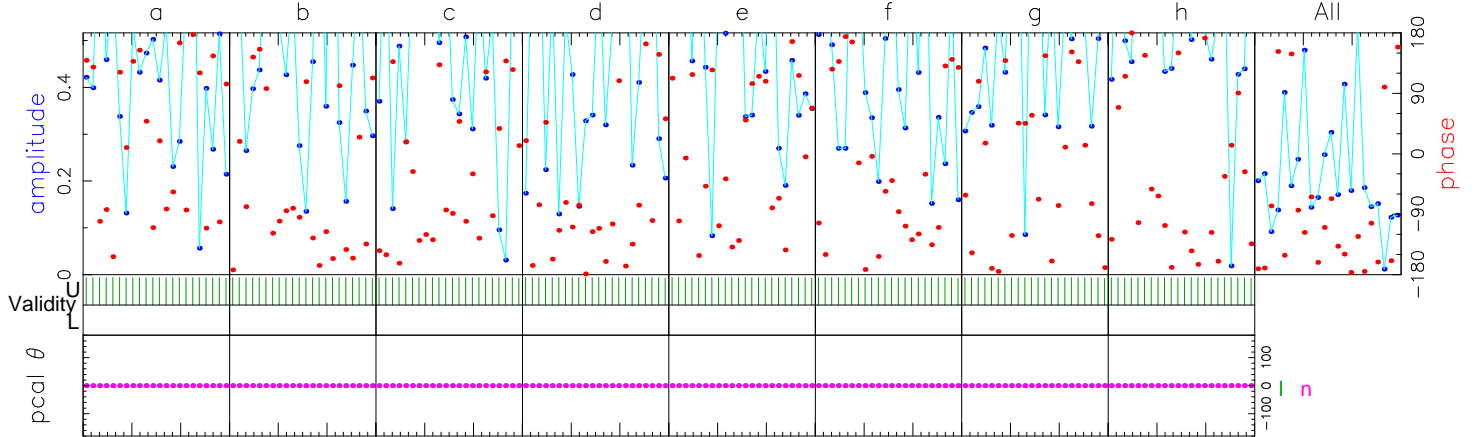
singleband delay (μ s)



Avgd. Xpower Spectrum (MHz)

Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141927
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

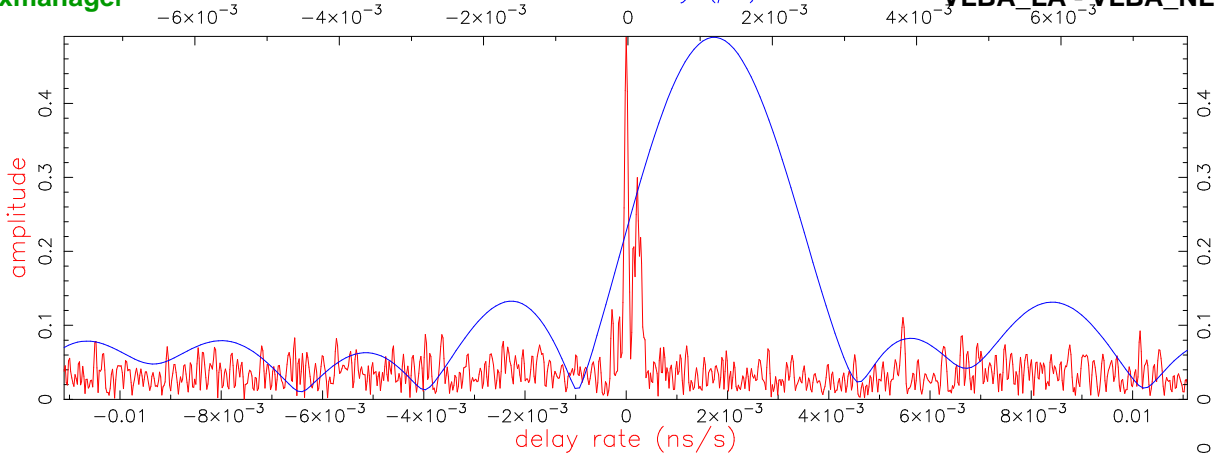
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.55429517312E+03			1.55429262555E+03				2.54757E-03	+/- 1.7E-04
Sband delay (usec)		1.55429618930E+03			-6.6041374E-01				3.56375E-03	+/- 1.4E-03
Phase delay (usec)		1.55429262120E+03			-6.0000003E-07				-4.35659E-06	+/- 5.7E-07
Delay rate (us/s)		3.05489279010E-01			3.05489250156E-01				2.88546E-08	+/- 5.5E-09
Total phase (deg)			38.9		-8.06102029455E-06				-137.9	+/- 18.1
pcal mode:					MANUAL, MANUAL					
pcal rate:					0.000E+00, 0.000E+00 (us/s)					
Bits/sample:					2x2					
Sample rate (MSamp/s):					128					
Data rate (Mb/s):					2048					
pcal period (AP's)					5, 5					
sb window (us)					-1.000					1.000
mb window (us)					-0.008					0.008
dr window (ns/s)					-0.011					0.011
ion window (TEC)					0.00					0.00

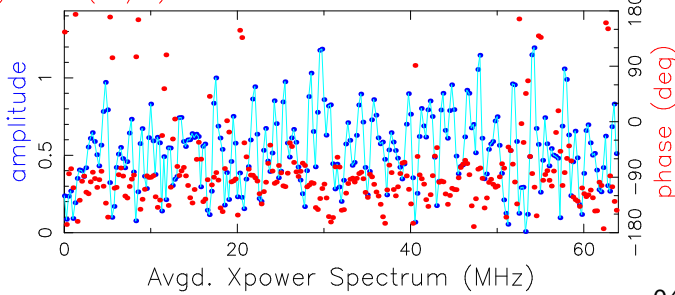
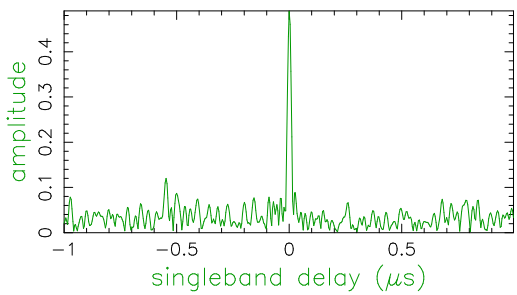
ph/seg (deg) 50.4 42.6 Search (1024X32) 0.168 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.3 74.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.4 25.7 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.8 44.8 Inc. frq. avg. 0.162 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 170.3 el 52.5 pa -7.3 n: az 192.7 el 46.2 pa 9.5 u, v (fr/asec) -1789.301 -724.987 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/in..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/in.W.138.1JLJ5P

multiband delay (μ s)



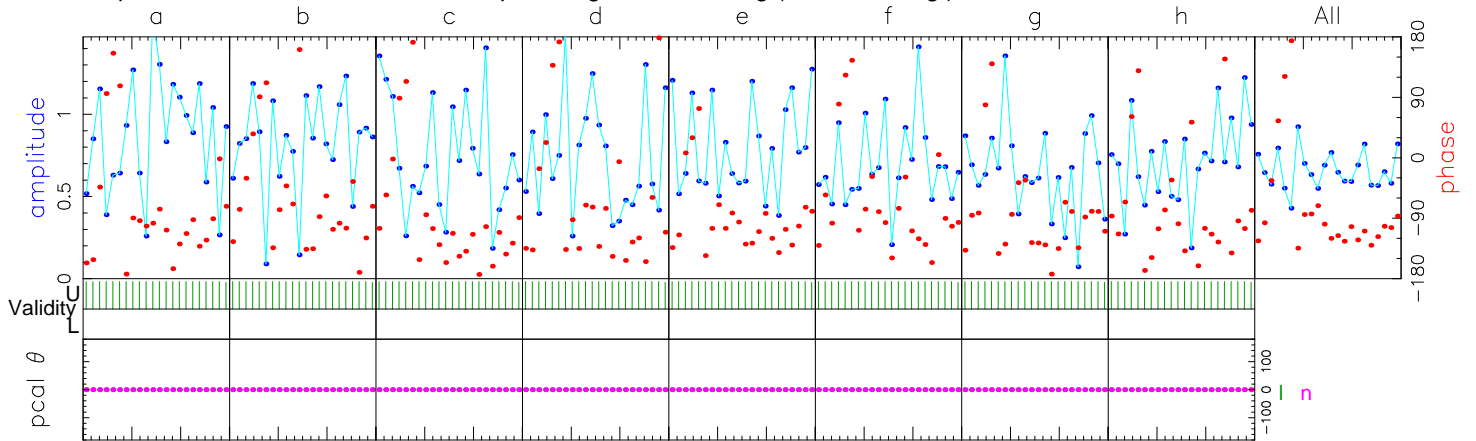
Fringe quality 9

SNR 18.0
Int time 179.977
Amp 0.490
Phase -108.0
PFD 0.0e+00
Delays (us)
SBD 0.000646
MBD 0.001206
Fringe rate (Hz)
-0.000489
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141921
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-112.7	-93.2	-115.3	-118.4	-102.9	-93.9	-108.5	-117.6	Phase	-108.0
	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.4	Ampl.	0.5
	256.4	257.5	257.2	257.7	256.7	257.9	257.5	256.6	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	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)	1.55429383115E+03		Apriori delay (usec)		1.55429262555E+03		Resid mbdelay (usec)		1.20559E-03	+/- 6.0E-05
Sband delay (usec)	1.55429327130E+03		Apriori clock (usec)		-6.6041374E-01		Resid sbdelay (usec)		6.45750E-04	+/- 4.8E-04
Phase delay (usec)	1.55429262214E+03		Apriori clockrate (us/s)		-6.0000003E-07		Resid phdelay (usec)		-3.41112E-06	+/- 2.0E-07
Delay rate (us/s)	3.05489244598E-01		Apriori rate (us/s)		3.05489250156E-01		Resid rate (us/s)		-5.55799E-09	+/- 1.9E-09
Total phase (deg)	68.8		Apriori accel (us/s/s)		-8.06102029455E-06		Resid phase (deg)		-108.0	+/- 6.4

	RMS	Theor.	Amplitude	0.490 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	52.6	14.9	Search (1024X32)	0.474	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	41.8	26.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	10.9	9.0	Inc. seg. avg.	0.640	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	12.8	15.7	Inc. frq. avg.	0.490	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 170.3 el 52.5 pa -7.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1789.301 -724.987 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/in..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/in.W.85.1JLJ5P

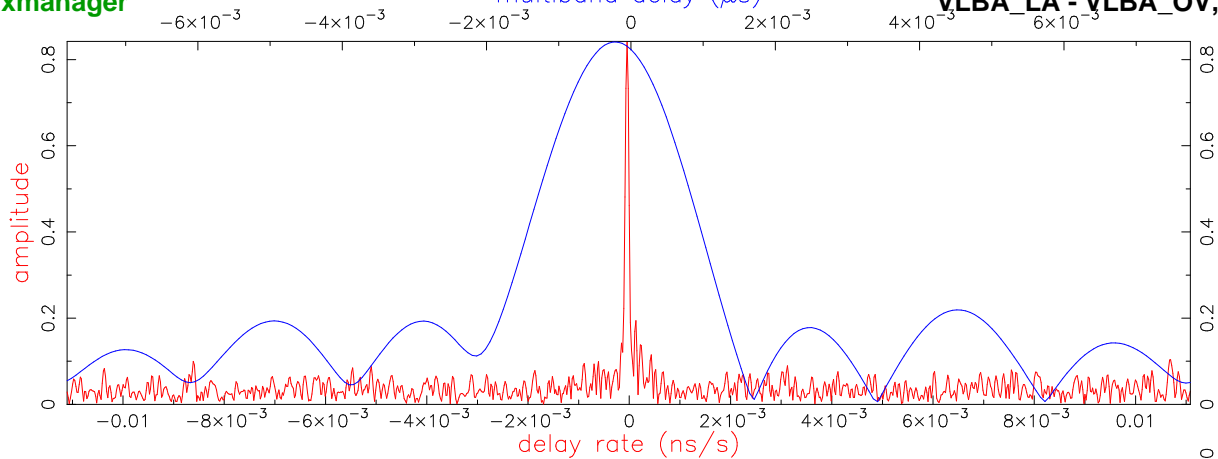
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, lo

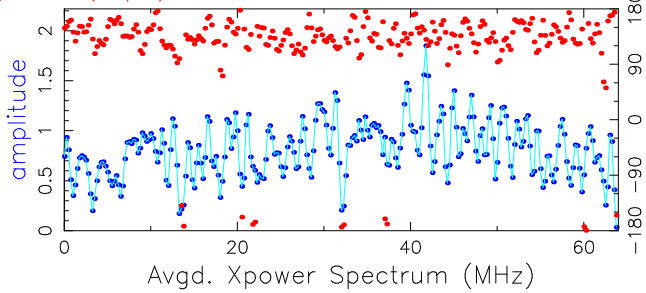
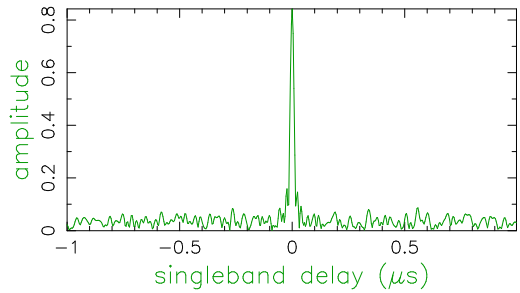
VLBA_LA - VLBA_OV, fgroup W, pol RR

multiband delay (μ s)



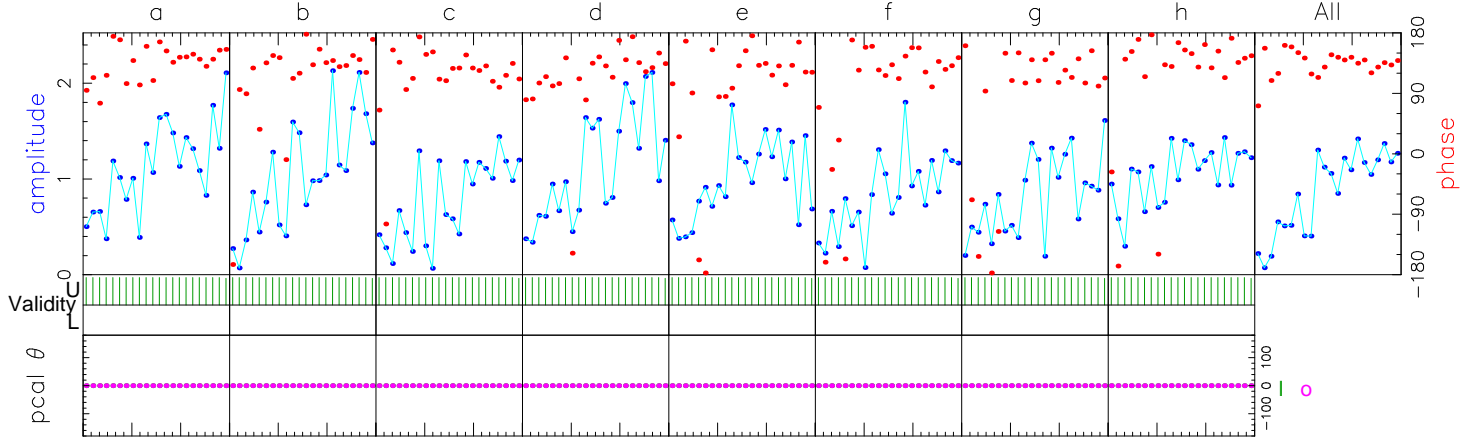
Fringe quality 8

SNR 30.9
 Int time 179.977
 Amp 0.842
 Phase 134.8
 PFD 0.0e+00
 Delays (μ s)
 SBD -0.000483
 MBD -0.000232
 Fringe rate (Hz)
 -0.004061
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141923
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	1.02039228250E+03		Apriori delay (usec)		1.02039251409E+03		Resid mbdelay (usec)		-2.31580E-04	+/- 3.5E-05
Sband delay (usec)	1.02039203159E+03		Apriori clock (usec)		-2.1806000E+01		Resid sbdelay (usec)		-4.82500E-04	+/- 2.8E-04
Phase delay (usec)	1.02039251834E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		4.25913E-06	+/- 1.2E-07
Delay rate (us/s)	-2.51700098696E-01		Apriori rate (us/s)		-2.51700052522E-01		Resid rate (us/s)		-4.61741E-08	+/- 1.1E-09
Total phase (deg)	22.8		Apriori accel (us/s/s)		-5.49005728508E-06		Resid phase (deg)		134.8	+/- 3.7

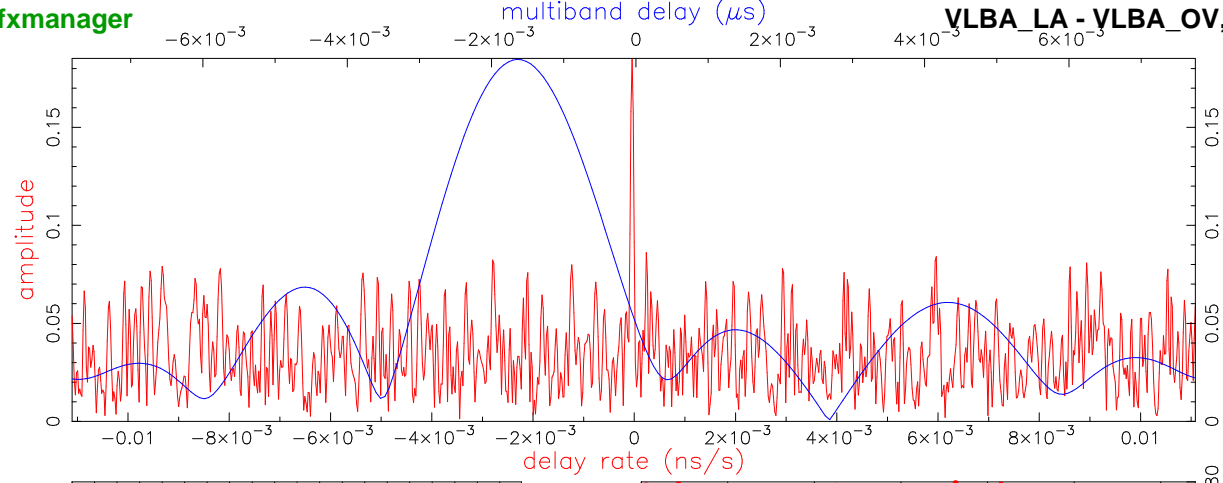
ph/seg (deg) 19.5 8.7 Search (1024X32) 0.821 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 49.4 15.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.7 5.2 Inc. seg. avg. 0.854 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.2 9.2 Inc. frq. avg. 0.845 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 170.3 el 52.5 pa -7.3 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 1469.300 -171.305 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lo..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lo.W.103.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, lo

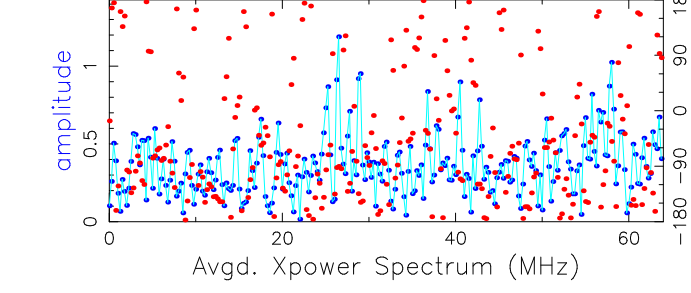
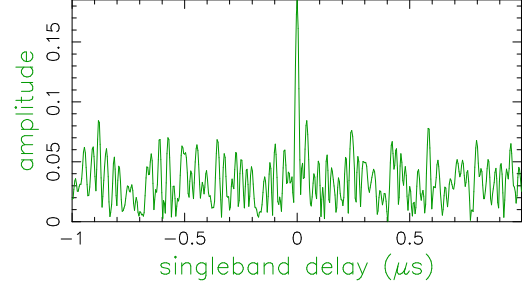
VLBA_LA - VLBA_OV, fgroup W, pol LR



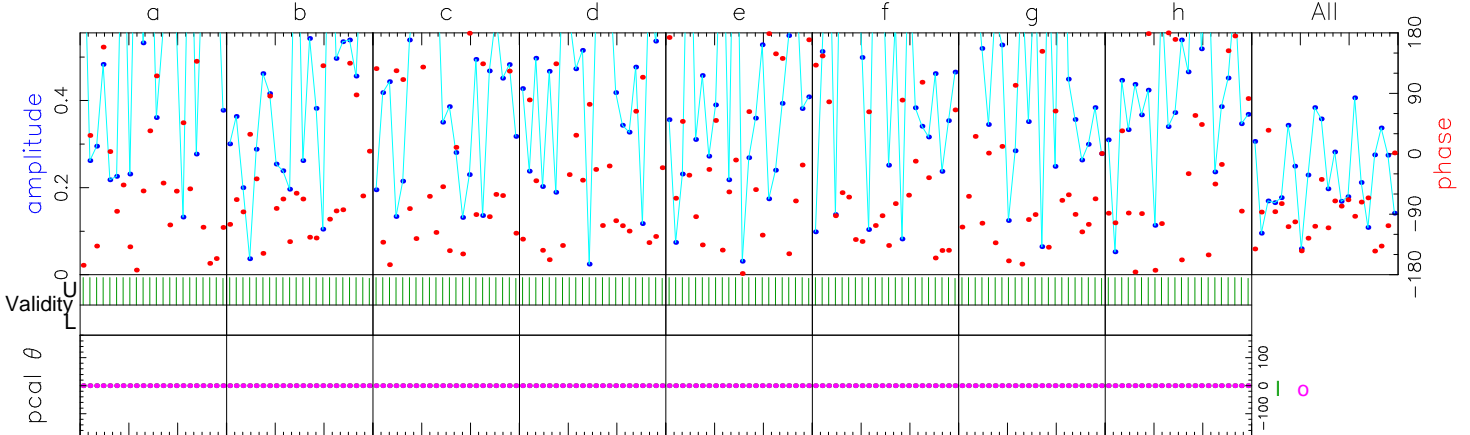
Fringe quality 0

SNR 6.8
 Int time 179.977
 Amp 0.185
 Phase -95.8
 PFD 1.6e-03
 Delays (us)
 SBD -0.000675
 MBD -0.001650
 Fringe rate (Hz)
 -0.003785
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512

Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141924
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"



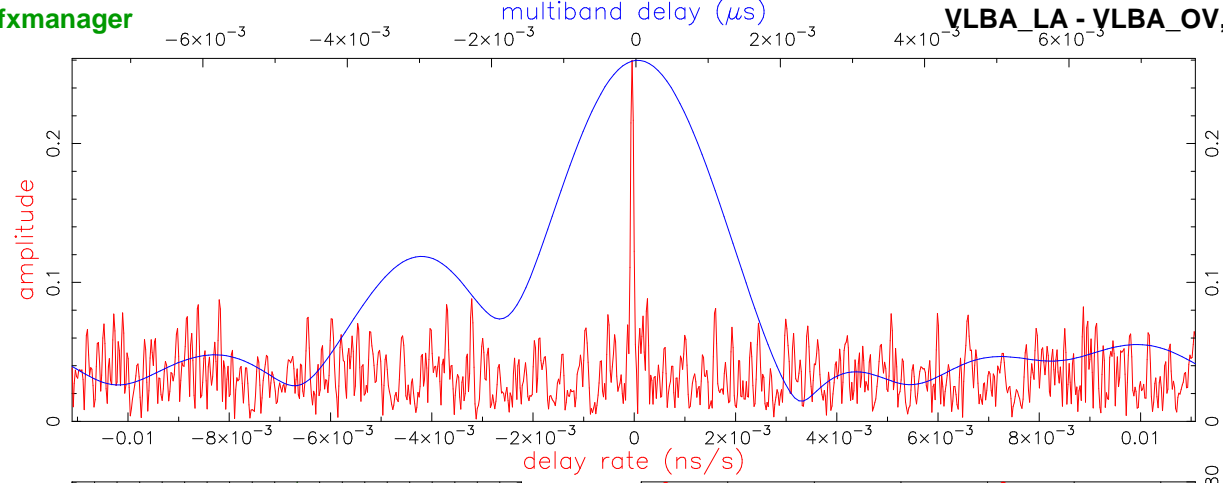
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



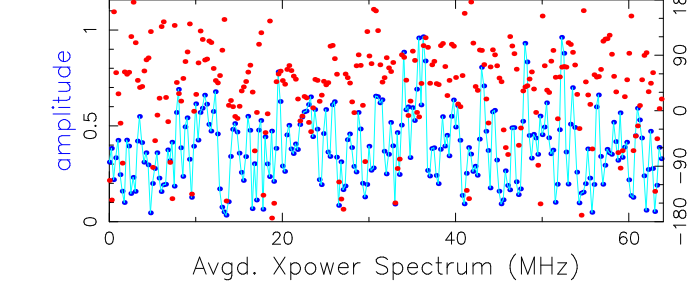
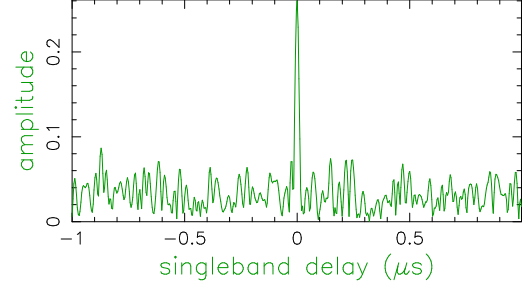
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
Validity	1	1	1	1	1	1	1	1		
pcal θ										
	-110.1	-83.2	-117.4	-77.2	-80.7	-94.8	-84.8	-147.8	Phase	-95.8
	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.1	Ampl.	0.2
	241.0	256.3	319.0	216.2	476.0	485.2	257.8	461.3	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.02039086375E+03		Apriori delay (usec)		1.02039251409E+03		Resid mbdelay (usec)		-1.65033E-03	+/- 1.6E-04
Sband delay (usec)	1.02039183884E+03		Apriori clock (usec)		-2.1806000E+01		Resid sbdelay (usec)		-6.75250E-04	+/- 1.3E-03
Phase delay (usec)	1.02039251106E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.02606E-06	+/- 5.3E-07
Delay rate (us/s)	-2.51700095566E-01		Apriori rate (us/s)		-2.51700052522E-01		Resid rate (us/s)		-4.30439E-08	+/- 5.1E-09
Total phase (deg)	152.1		Apriori accel (us/s/s)		-5.49005728508E-06		Resid phase (deg)		-95.8	+/- 16.9

ph/seg (deg) 44.5 39.6 Amplitude 0.185 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.1 69.6 Search (1024X32) 0.182 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.6 23.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.7 41.6 Inc. seg. avg. 0.188 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.179 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

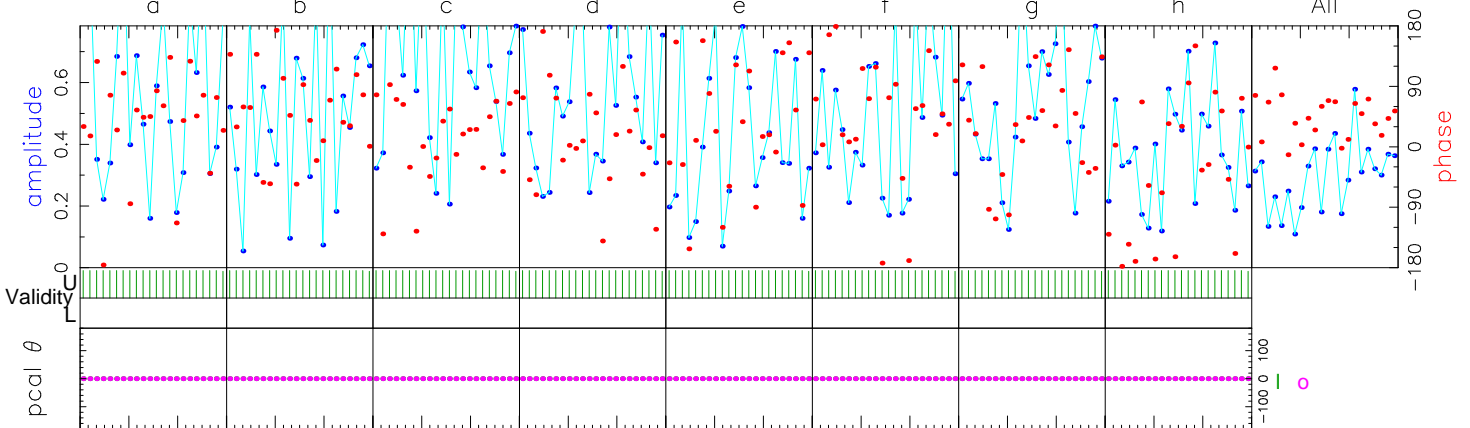
l: az 170.3 el 52.5 pa -7.3 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 1469.300 -171.305 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lo..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lo.W.116.1JLJ5P



Fringe quality 9
SNR 9.6
Int time 179.977
Amp 0.261
Phase 45.8
PFD 1.9e-13
Delays (us)
SBD -0.000986
MBD 0.000007
Fringe rate (Hz)
-0.004528
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512
Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141926
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 1.02039252150E+03 Apriori delay (usec) 1.02039251409E+03 Resid mbdelay (usec) 7.41955E-06 +/- 1.1E-04
 Sband delay (usec) 1.02039152784E+03 Apriori clock (usec) -2.1806000E+01 Resid sbdelay (usec) -9.86250E-04 +/- 9.0E-04
 Phase delay (usec) 1.02039251553E+03 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.44756E-06 +/- 3.8E-07
 Delay rate (us/s) -2.51700104010E-01 Apriori rate (us/s) -2.51700052522E-01 Resid rate (us/s) -5.14877E-08 +/- 3.6E-09
 Total phase (deg) 293.7 Apriori accel (us/s/s) -5.49005728508E-06 Resid phase (deg) 45.8 +/- 12.0

RMS Theor. Amplitude 0.261 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 31.2 28.0 Search (1024X32) 0.253 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 44.3 48.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 19.1 16.9 Inc. seg. avg. 0.264 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 41.8 29.5 Inc. frq. avg. 0.262 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 170.3 el 52.5 pa -7.3 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 1469.300 -171.305 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lo..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lo.W.130.1JLJ5P

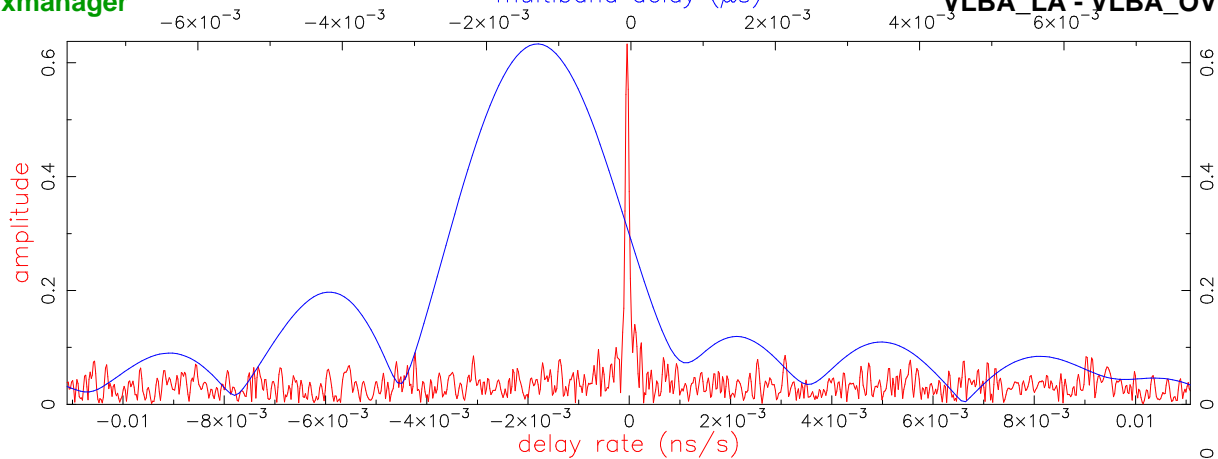
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, lo

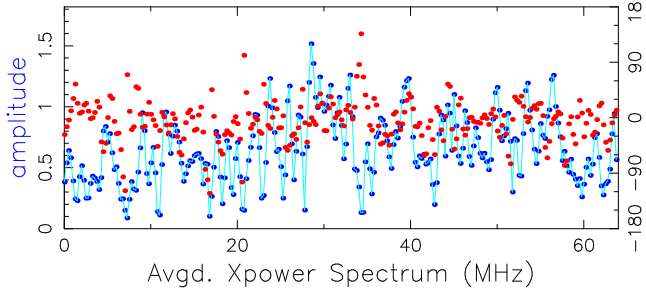
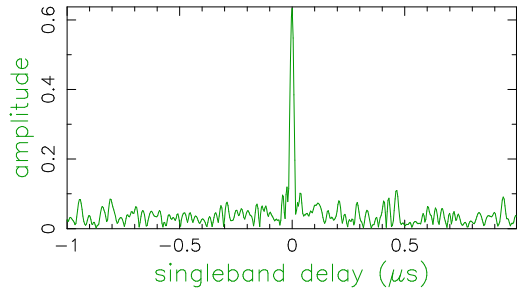
VLBA_LA - VLBA_OV, fgroup W, pol LL

multiband delay (μ s)



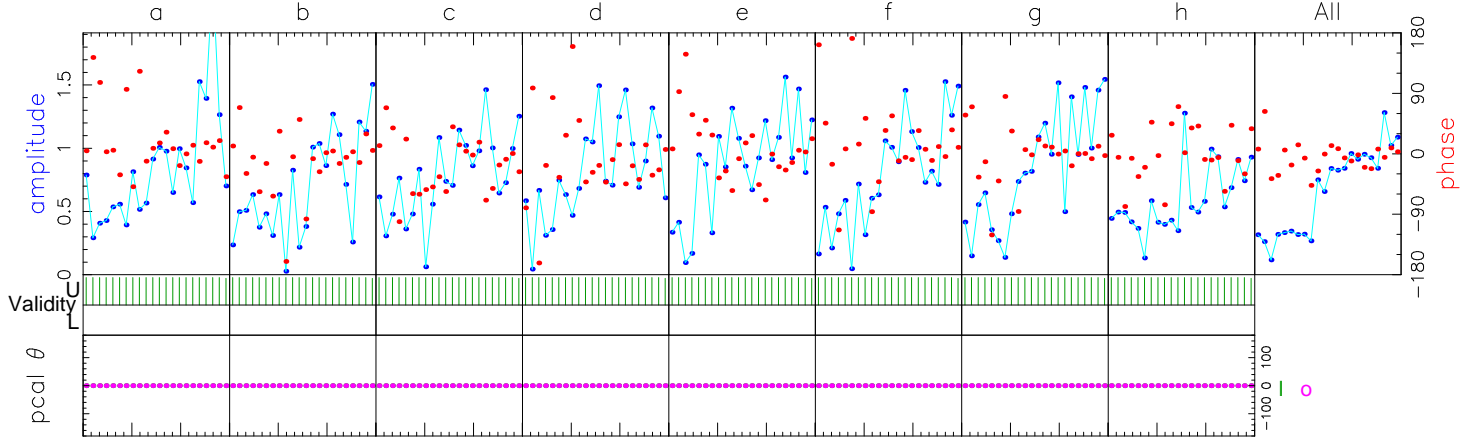
Fringe quality 9

SNR 23.4
 Int time 179.977
 Amp 0.638
 Phase -4.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.001119
 MBD -0.001327
 Fringe rate (Hz)
 -0.004188
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141921
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.02039118691E+03	Apriori delay (usec)	1.02039251409E+03	Resid mbdelay (usec)	-1.32717E-03	+/-	4.6E-05
Sband delay (usec)	1.02039139509E+03	Apriori clock (usec)	-2.1806000E+01	Resid sbdelay (usec)	-1.11900E-03	+/-	3.7E-04
Phase delay (usec)	1.02039251395E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.32660E-07	+/-	1.5E-07
Delay rate (us/s)	-2.51700100151E-01	Apriori rate (us/s)	-2.51700052522E-01	Resid rate (us/s)	-4.76288E-08	+/-	1.5E-09
Total phase (deg)	243.7	Apriori accel (us/s/s)	-5.49005728508E-06	Resid phase (deg)	-4.2	+/-	4.9

ph/seg (deg)	22.1	Theor.	11.5	Amplitude	0.638 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	52.2		20.1	Search (1024X32)	0.622	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	11.7		6.9	Inc. seg. avg.	0.646	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	11.7		12.1	Inc. frq. avg.	0.638	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

l: az 170.3 el 52.5 pa -7.3 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 1469.300 -171.305 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lo..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lo.W.87.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

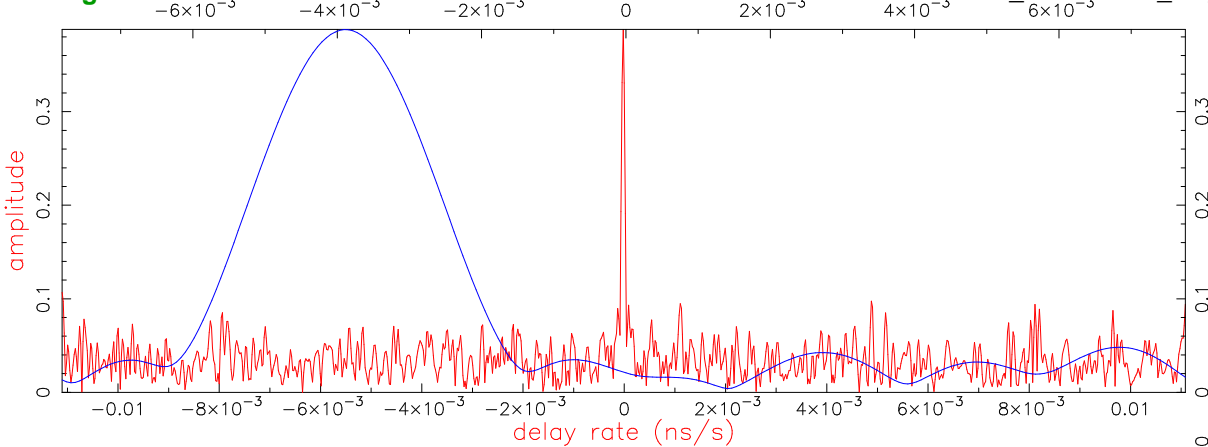
fxmanager

0420-014.1JLJ5P, No0075, lp

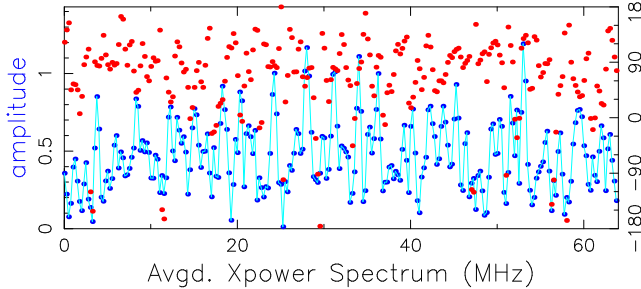
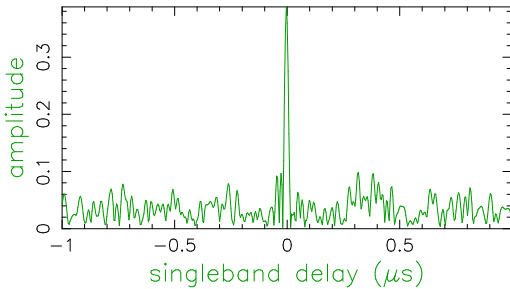
VLBA_LA - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 9

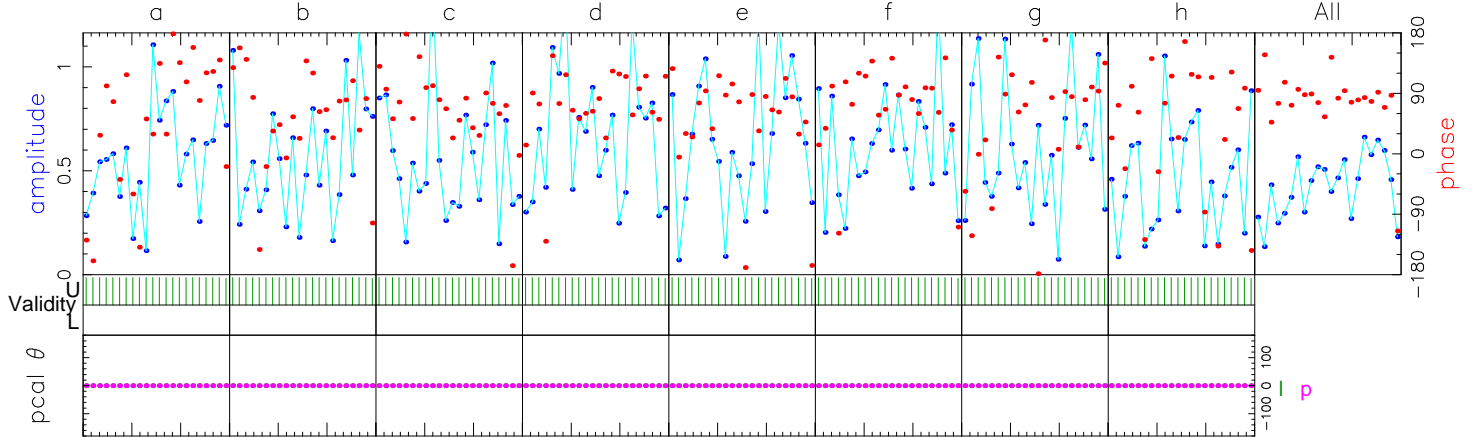


SNR 14.2
 Int time 179.976
 Amp 0.388
 Phase 84.5
 PFD 1.7e-37
 Delays (us)
 SBD -0.003576
 MBD -0.003880
 Fringe rate (Hz)
 -0.001463
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



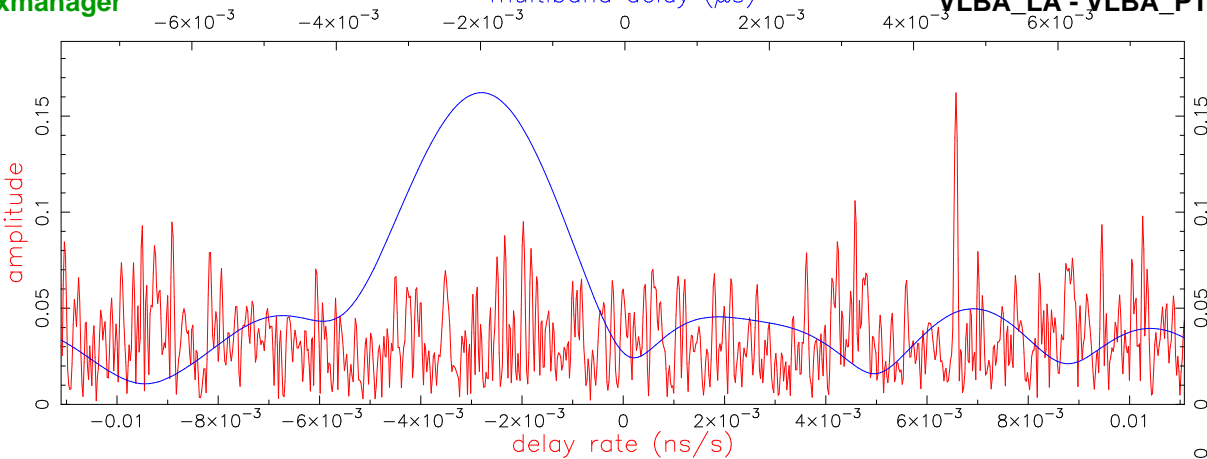
Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141923
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



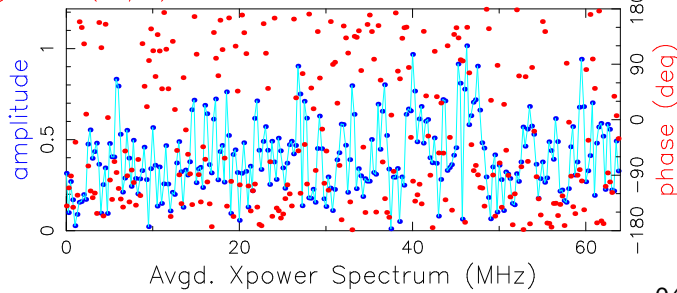
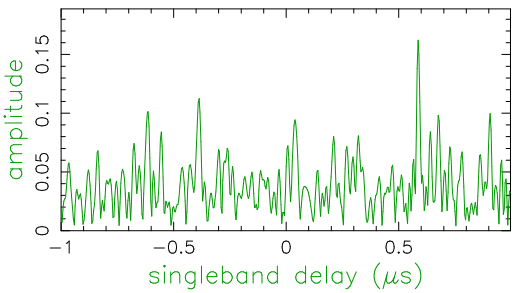
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-2.58727284326E+02								Resid mbdelay (usec)	-3.88001E-03 +/- 7.6E-05
Sband delay (usec)	-2.58726979817E+02								Resid sbdelay (usec)	-3.57550E-03 +/- 6.1E-04
Phase delay (usec)	-2.58723401647E+02								Resid phdelay (usec)	2.67048E-06 +/- 2.5E-07
Delay rate (us/s)	-4.38972383811E-02								Resid rate (us/s)	-1.66379E-08 +/- 2.4E-09
Total phase (deg)			21.3						Resid phase (deg)	84.5 +/- 8.1
	RMS	Theor.	Amplitude	0.388 +/- 0.027					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	40.7	18.9	Search (1024X32)	0.384					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	39.0	33.0	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	12.2	11.4	Inc. seg. avg.	0.405					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	27.5	19.9	Inc. frq. avg.	0.385					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

multiband delay (μ s)



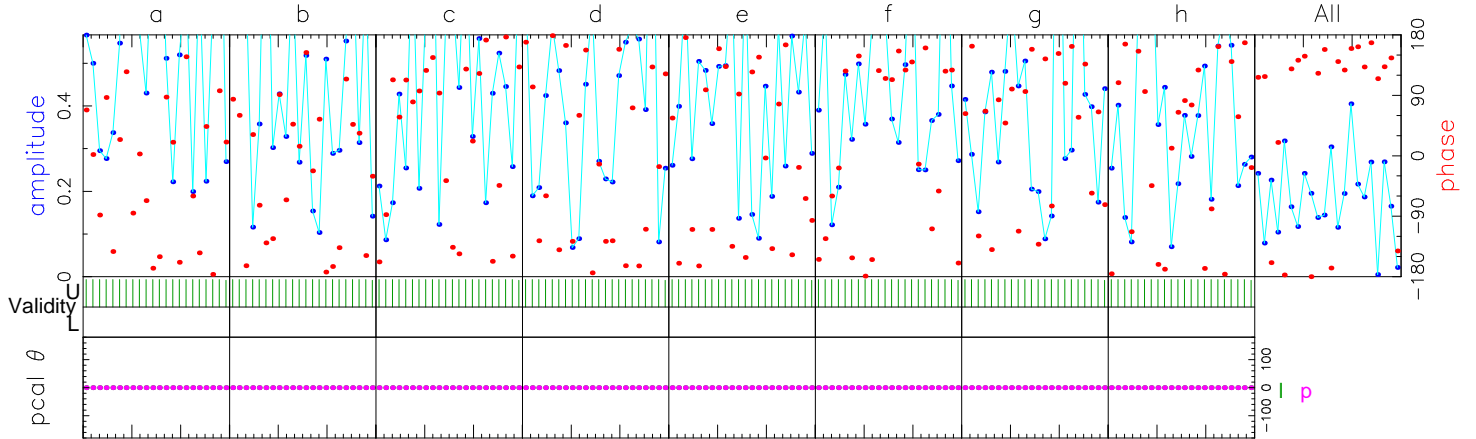
Fringe quality 0

SNR 6.0
Int time 179.976
Amp 0.189
Phase 153.9
PFD 2.7e-01
Delays (us)
SBD 0.586609
MBD -0.001950
Fringe rate (Hz)
0.579720
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141925
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.58131604026E+02									
Sband delay (usec)	-2.58136795817E+02									
Phase delay (usec)	-2.58723399456E+02									
Delay rate (us/s)	-4.38906295233E-02									
Total phase (deg)			90.7							
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)									153.9	+/- 1.8E-04
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 40.2 45.0
amp/seg (%) 59.8 78.6
ph/frq (deg) 27.2 27.2
amp/frq (%) 36.2 47.4

RMS Theor. Amplitude 0.189 +/- 0.032
Search (1024X32) 0.160
Interp. 0.000
Inc. seg. avg. 0.167
Inc. frq. avg. 0.183

PCal mode: MANUAL, MANUAL 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

l: az 170.3 el 52.5 pa -7.3 p: az 166.8 el 53.7 pa -10.4 u,v (fr/asec) 257.042 188.217 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lp..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lp.W.122.1JLJ5P

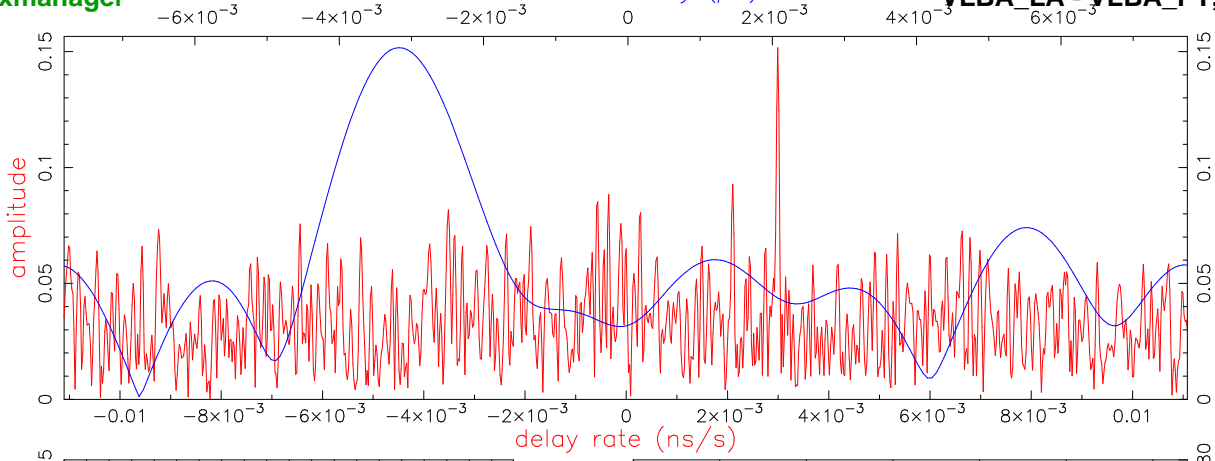
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, lp

VLBA_LA - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)



Fringe quality 0

SNR 5.6

Int time 179.976

Amp 0.157

Phase 124.3

PFD 9.5e-01

Delays (us)

SBD -0.016204

MBD -0.003199

Fringe rate (Hz)

0.263495

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 094000.00

Stop 094300.22

FRT 094130.00

Corr/FF/build

2021:041:222607

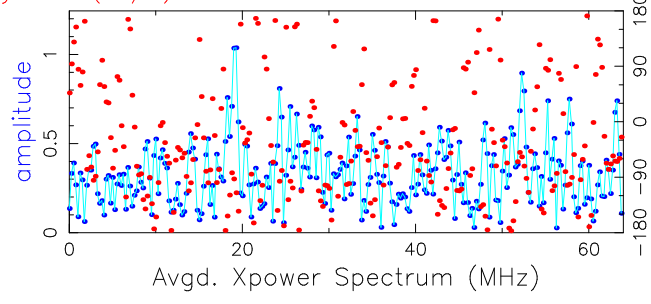
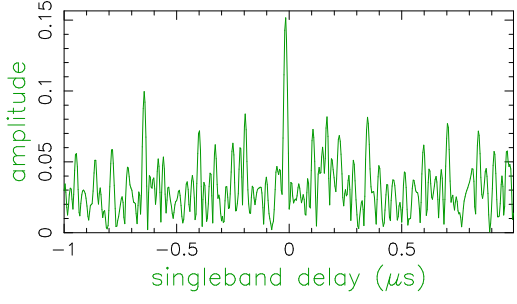
2021:042:141927

2020:247:085004

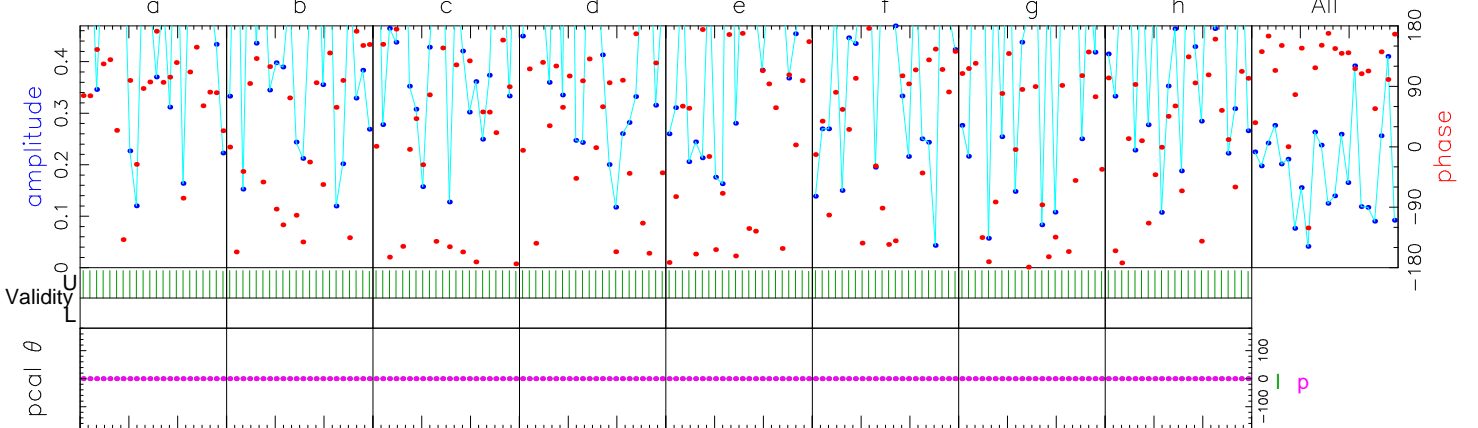
RA & Dec (J2000)

04h23m15.800724s

--1°20'33.065613"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.58742228328E+02				-2.58723404317E+02				-3.19901E-03	+/- 1.9E-04
Sband delay (usec)	-2.58739608317E+02				-5.6784534E-01				-1.62040E-02	+/- 1.5E-03
Phase delay (usec)	-2.58723400392E+02				-5.0000000E-07				3.92484E-06	+/- 6.5E-07
Delay rate (us/s)	-4.38942254391E-02				-4.38972217432E-02				2.99630E-06	+/- 6.2E-09
Total phase (deg)			61.0		1.31918090624E-06				124.3	+/- 20.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 49.2 48.2 Search (1024X32) 0.150 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 67.6 84.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 30.1 29.1 Inc. seg. avg. 0.149 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 48.0 50.8 Inc. frq. avg. 0.153 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

l: az 170.3 el 52.5 pa -7.3 p: az 166.8 el 53.7 pa -10.4 u,v (fr/asec) 257.042 188.217 ion window (TEC) 0.00 0.00

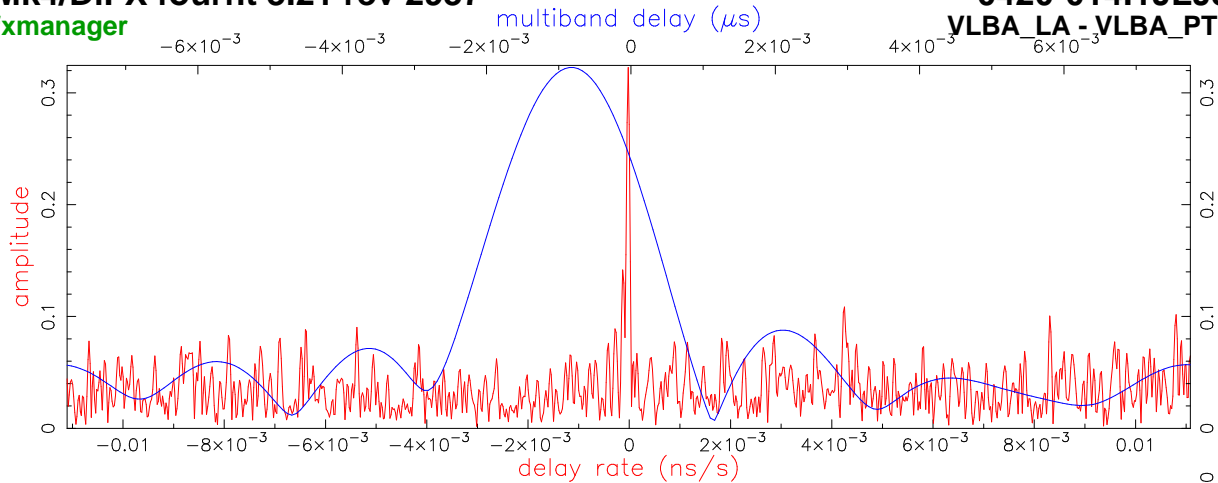
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lp..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lp.W.135.1JLJ5P simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

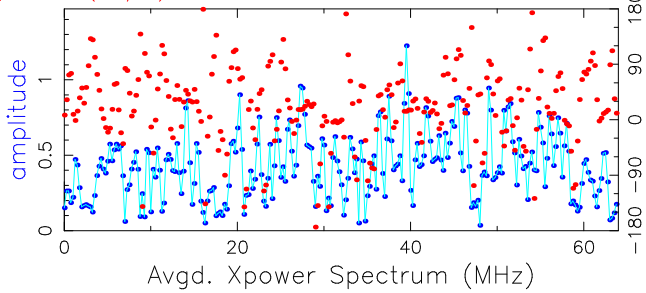
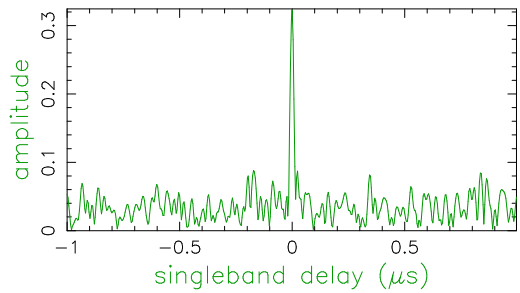
0420-014.1JLJ5P, No0075, lp

VLBA_LA - VLBA_PT, fgroup W, pol LL



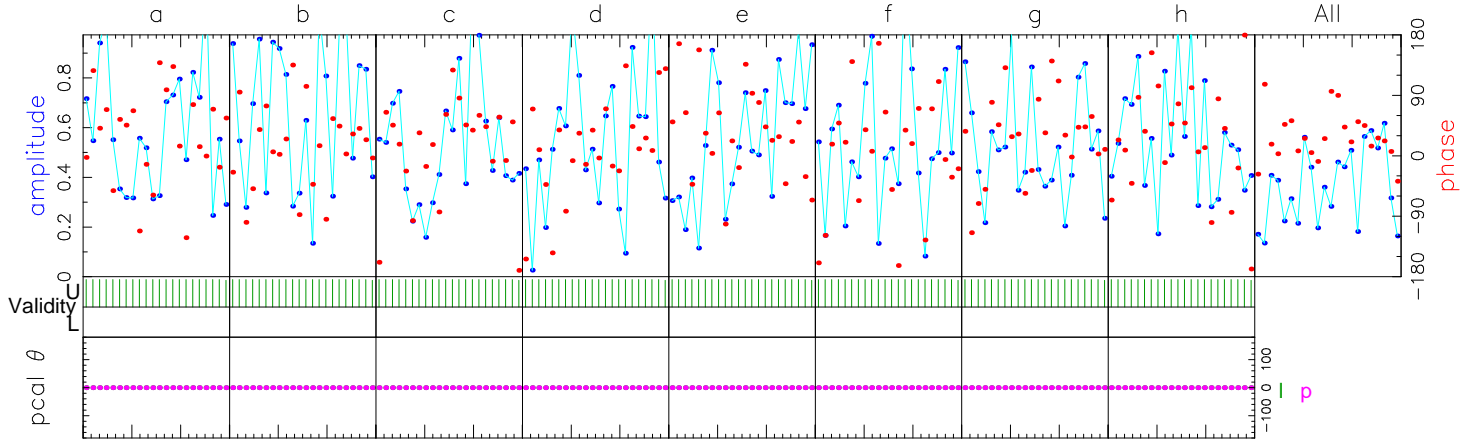
Fringe quality 9

SNR 11.9
 Int time 179.976
 Amp 0.325
 Phase 28.2
 PFD 2.7e-24
 Delays (us)
 SBD -0.000985
 MBD -0.000852
 Fringe rate (Hz)
 -0.001820
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141921
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.58724256232E+02	Apriori delay (usec)	-2.58723404317E+02	Resid mbdelay (usec)	-8.51915E-04	+/-	9.1E-05
Sband delay (usec)	-2.58724388817E+02	Apriori clock (usec)	-5.6784534E-01	Resid sbdelay (usec)	-9.84500E-04	+/-	7.2E-04
Phase delay (usec)	-2.58723403426E+02	Apriori clockrate (us/s)	-5.0000000E-07	Resid phdelay (usec)	8.91288E-07	+/-	3.0E-07
Delay rate (us/s)	-4.38972424372E-02	Apriori rate (us/s)	-4.38972217432E-02	Resid rate (us/s)	-2.06939E-08	+/-	2.9E-09
Total phase (deg)	-35.0	Apriori accel (us/s/s)	1.31918090624E-06	Resid phase (deg)	28.2	+/-	9.6

ph/seg (deg)	RMS 35.5	Theor. 22.6	Amplitude Search (1024X32)	0.325 +/- 0.027	0.320	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	48.5	39.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	11.8	13.6	Inc. seg. avg.	0.340	0.340	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	16.2	23.8	Inc. frq. avg.	0.319	0.319	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

l: az 170.3 el 52.5 pa -7.3 p: az 166.8 el 53.7 pa -10.4 u,v (fr/asec) 257.042 188.217 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/lp..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/lp.W.90.1JLJ5P