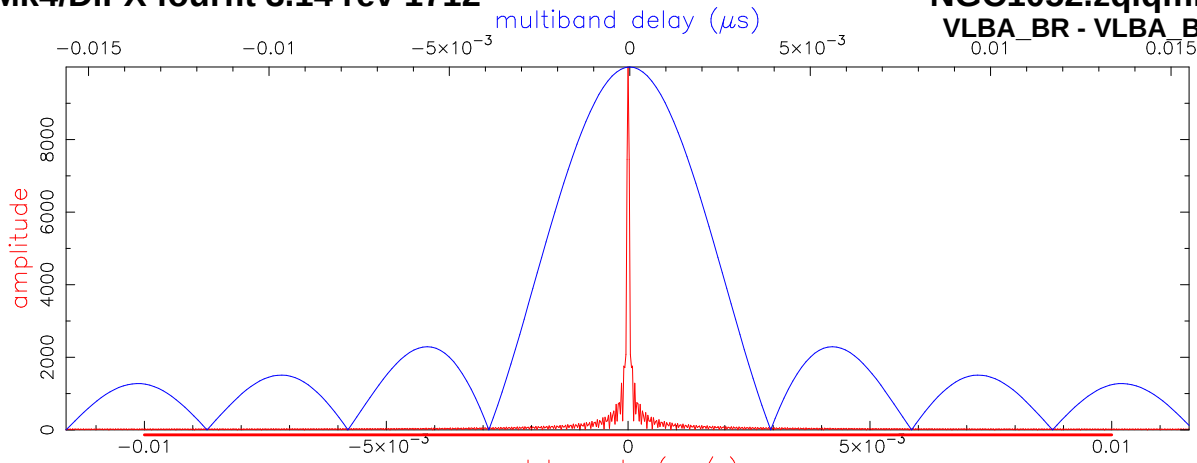
Mk4/DiFX fourfit 3.14 rev 1712

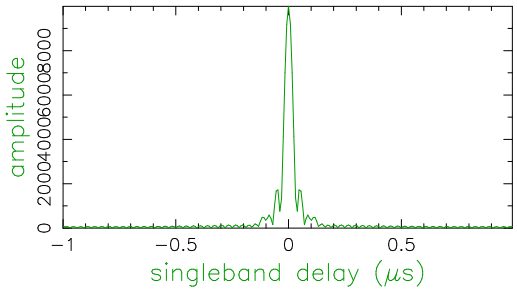
NGC1052.zqlqmm, No0205, bb

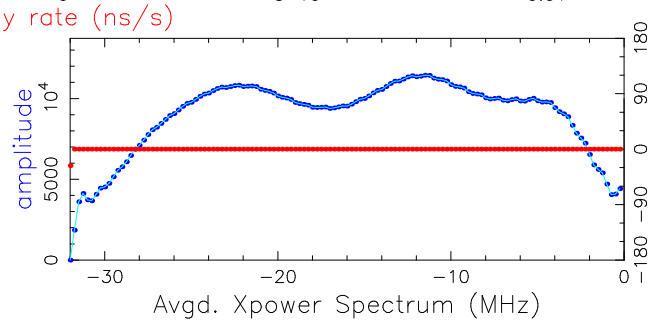
VLBA_BR - VLBA_BR, fgroup Q, pol LL



Fringe quality 9

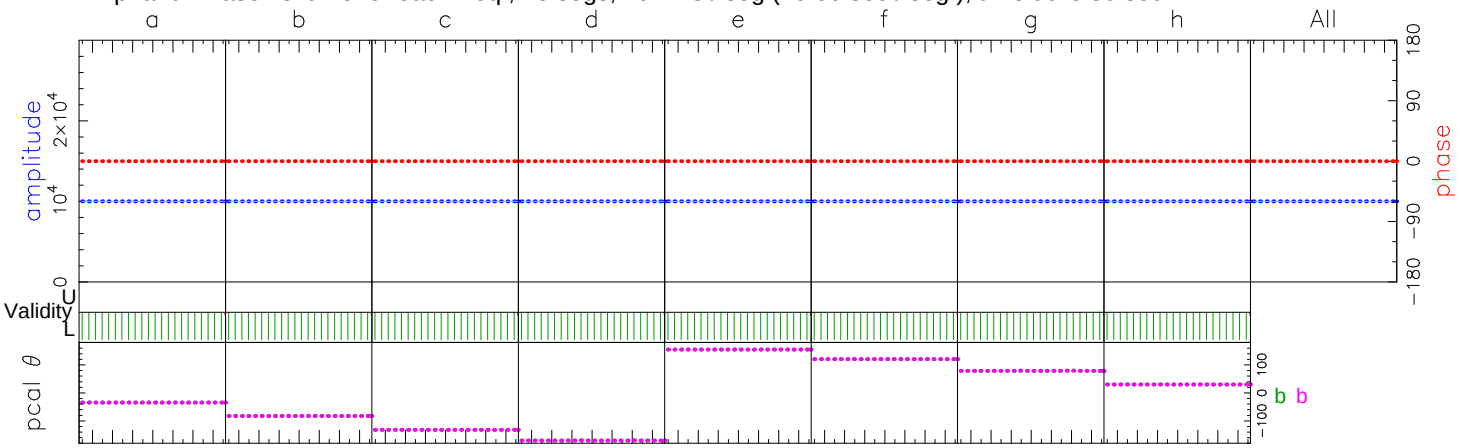
SNR 396280.5
Int time 419.991
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120458
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
b:b	-35:-35	-83:-83	-132:-132	-170:-170	155:155	121:121	79:79	30:30	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
b	17	17	18	19	18	17	17	17		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	0.00000000000E+00	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	5.5E-09
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	4.3E-08
Phase delay (usec)	0.00000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.9E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	7.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.0	+/-	0.0

	RMS	Theor.							
			Amplitude	9999.999 +/- 0.025	Pcal mode: MULTITONE, MULTITONE 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: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.010	0.010
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.999	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

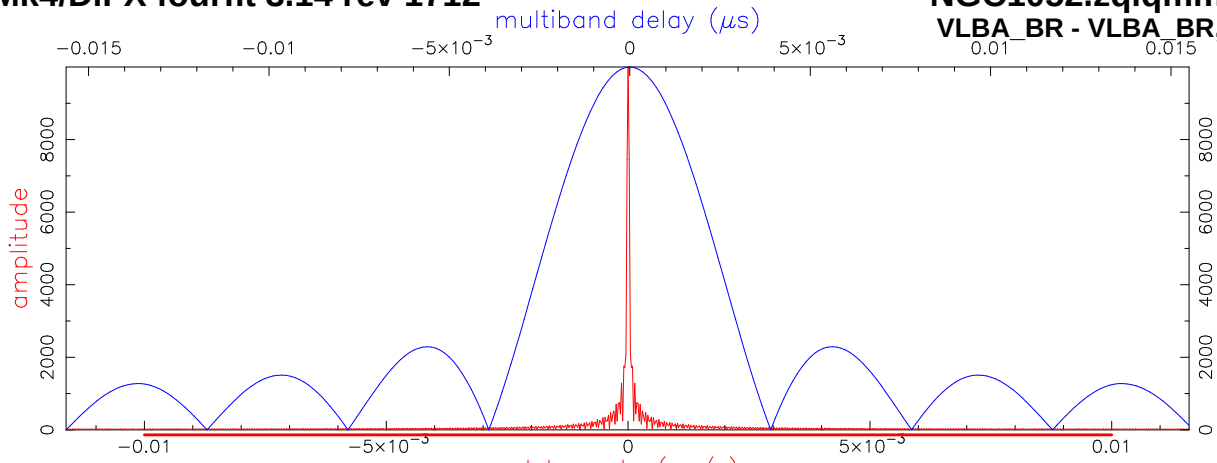
b: az 137.7 el 24.4 pa -27.0 b: az 137.7 el 24.4 pa -27.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bb..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bb.Q.113.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

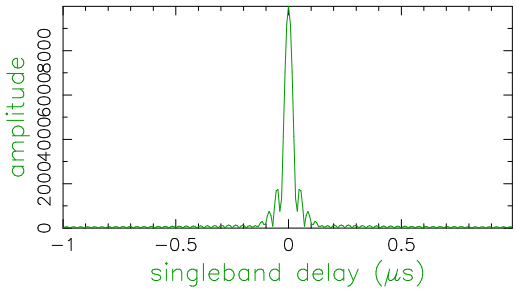
NGC1052.zqlqmm, No0205, bb

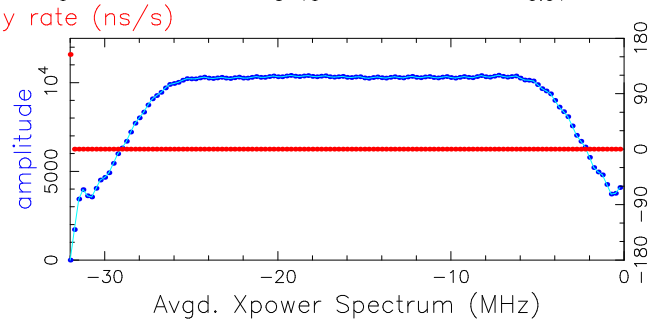
VLBA_BR - VLBA_BR, fgroup Q, pol RR



Fringe quality 9

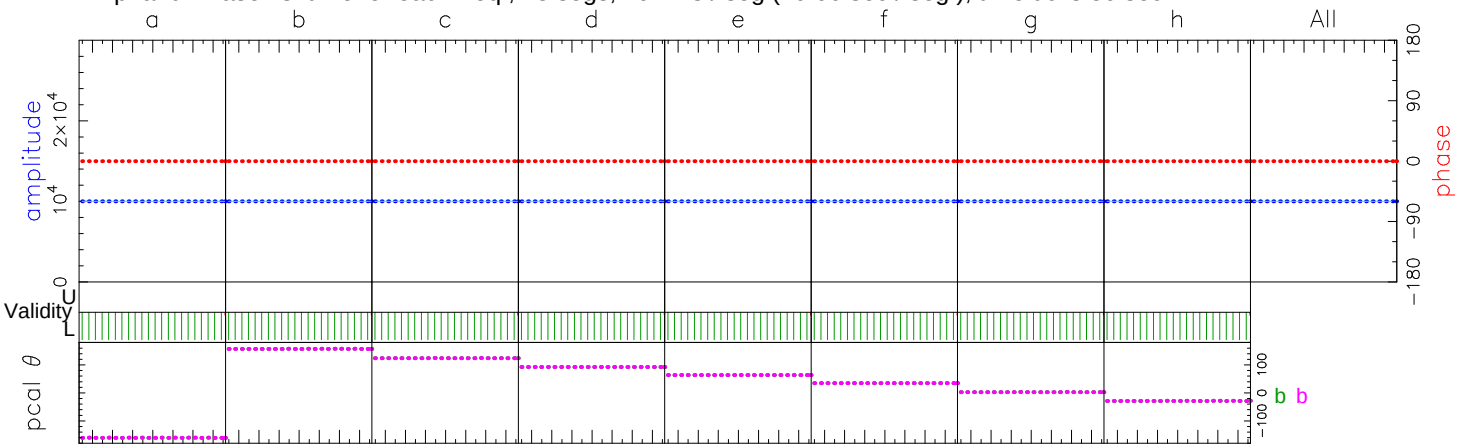
SNR 396280.5
Int time 419.991
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120459
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
b:b	-160:-160	157:157	124:124	92:92	64:64	35:35	3:3	-29:-29	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
b	7	8	9	10	11	10	10	10		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	0.00000000000E+00	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	5.5E-09
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	4.3E-08
Phase delay (usec)	0.00000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.9E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	7.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.0	+/-	0.0

	RMS	Theor.							
			Amplitude	9999.999 +/- 0.025	Pcal mode: MULTITONE, MULTITONE 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: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.010	0.010
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.999	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

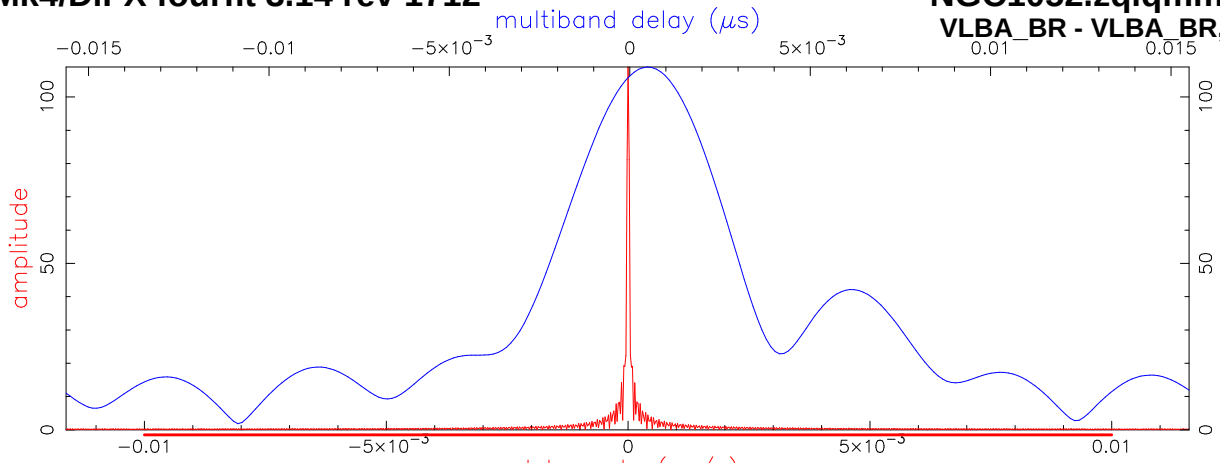
b: az 137.7 el 24.4 pa -27.0 b: az 137.7 el 24.4 pa -27.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bb..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bb.Q.114.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

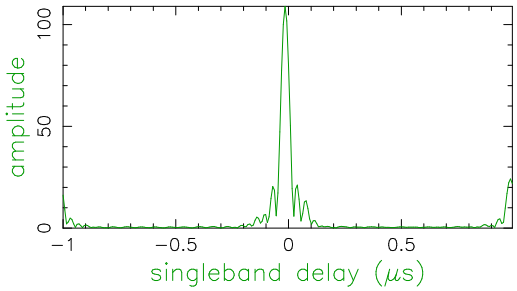
NGC1052.zqlqmm, No0205, bb

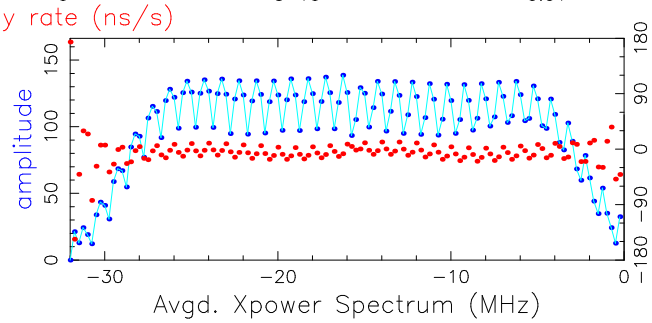
VLBA_BR - VLBA_BR, fgroup Q, pol LR



Fringe quality 8

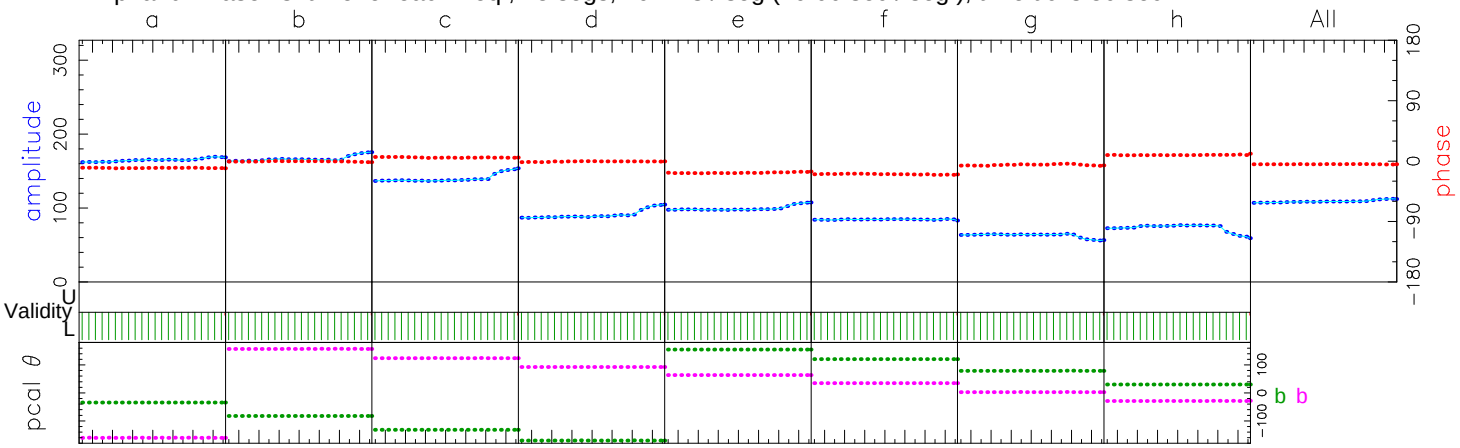
SNR	4320.0
Int time	419.991
Amp	109.013
Phase	-4.7
PFD	0.0e+00
Delays (us)	
SBD	-0.015178
MBD	0.000496
Fringe rate (Hz)	
	0.000000
Ion TEC	0.000
Ref freq (MHz)	
	43024.0000
AP (sec)	1.000





Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	
	2017:164:184713
	2017:220:120500
	2017:170:130423
RA & Dec (J2000)	
	02h41m 4.7985s
	-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	-10.2	-0.5	5.4	-0.6	-17.3	-19.5	-5.6	9.1	Phase	-4.7
	164.9	166.6	139.9	91.0	99.5	84.6	63.0	73.2	Ampl.	110.3
	127.2	127.0	127.0	126.8	127.0	127.2	127.0	127.1	Sbd box	127.1
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
b:b	-35:-160	-83:157	-132:124	-170:92	155:64	121:35	79:3	30:-29	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
b	7	8	9	10	11	10	10	10		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	4.95937500000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	4.95937E-04	+/-	5.0E-07
Sband delay (usec)	-1.51785000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.51785E-02	+/-	4.0E-06
Phase delay (usec)	-3.01204159941E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.01204E-07	+/-	1.7E-09
Delay rate (us/s)	8.71606545184E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	8.71607E-12	+/-	7.1E-12
Total phase (deg)	-4.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-4.7	+/-	0.0

	RMS	Theor.						
			Amplitude	109.013 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	0.2	0.1	Search (1024X32)	106.447	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	1.4	0.1	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	11.1	0.0	Inc. seg. avg.	108.986	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	35.2	0.1	Inc. frq. avg.	110.348	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

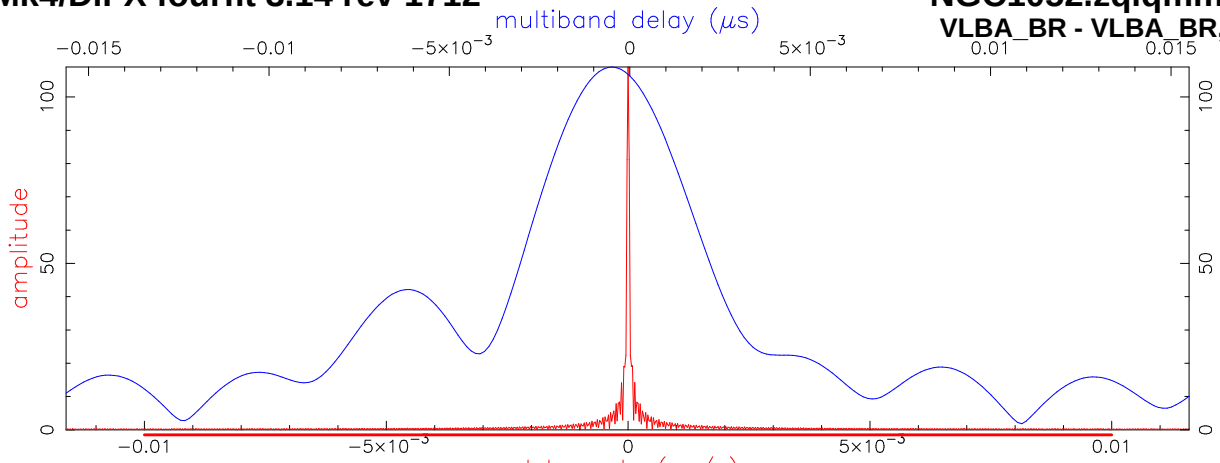
b: az 137.7 el 24.4 pa -27.0 b: az 137.7 el 24.4 pa -27.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bb..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bb.Q.115.zqlqmm

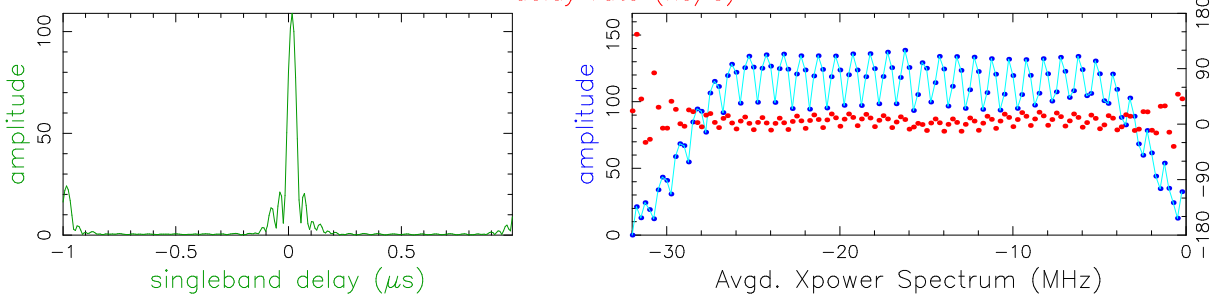
Mk4/DiFX fourfit 3.14 rev 1712

NGC1052.zqlqmm, No0205, bb

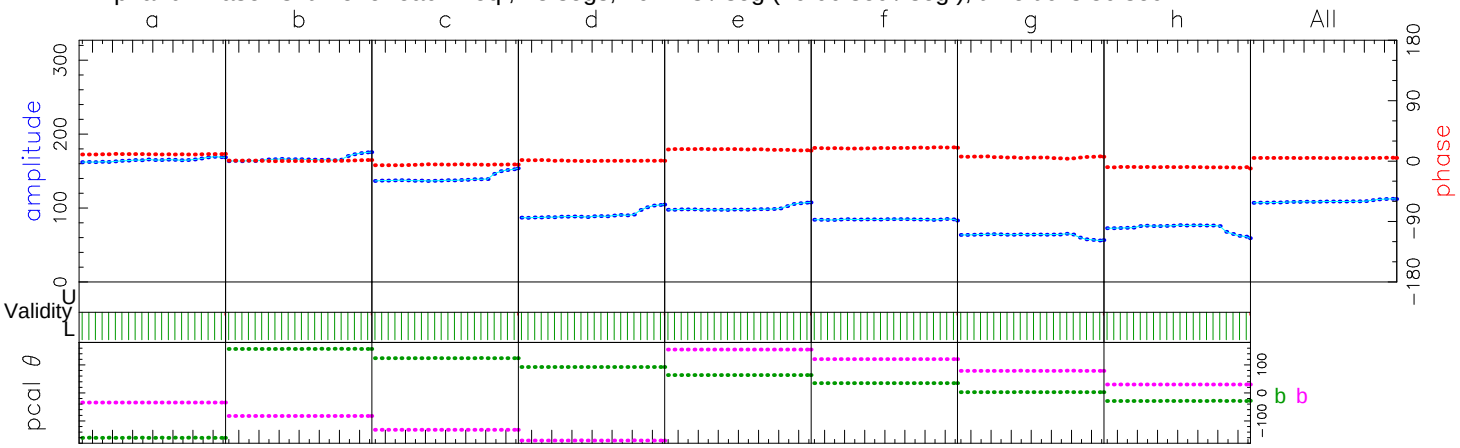
VLBA_BR - VLBA_BR, fgroup Q, pol RL



Fringe quality	8
SNR	4320.0
Int time	419.991
Amp	109.013
Phase	4.7
PFD	0.0e+00
Delays (us)	
SBD	0.015178
MBD	-0.000496
Fringe rate (Hz)	-0.000000
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120501
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"



Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	10.2	0.5	-5.4	0.6	17.3	19.5	5.6	-9.1	Phase	4.7
	164.9	166.6	139.9	91.0	99.5	84.6	63.0	73.2	Ampl.	110.3
	130.8	131.0	131.0	131.2	131.0	130.8	131.0	130.9	Sbd box	130.9
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
b:b	-160:-35	157:-83	124:-132	92:-170	64:155	35:121	3:79	-29:30	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
b	17	17	18	19	18	17	17	17		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.95937500000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.95937E-04	+/-	5.0E-07
Sband delay (usec)	1.51785000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.51785E-02	+/-	4.0E-06
Phase delay (usec)	3.01204159879E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.01204E-07	+/-	1.7E-09
Delay rate (us/s)	-8.71606545184E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-8.71607E-12	+/-	7.1E-12
Total phase (deg)	4.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	4.7	+/-	0.0

	RMS	Theor.	Amplitude	109.013 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	0.2	0.1	Search (1024X32)	106.447	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	1.4	0.1	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	11.1	0.0	Inc. seg. avg.	108.986	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	35.2	0.1	Inc. frq. avg.	110.348	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

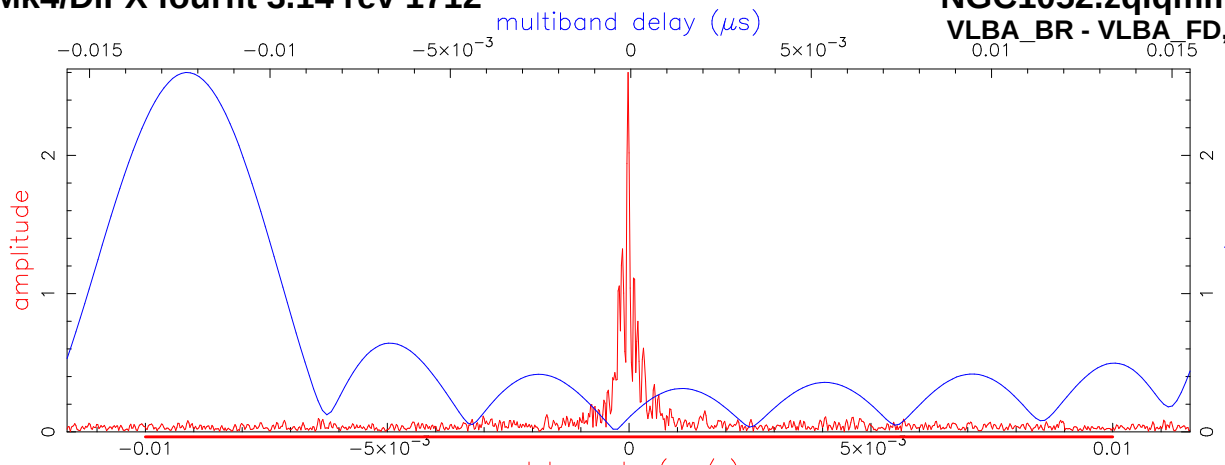
b: az 137.7 el 24.4 pa -27.0 b: az 137.7 el 24.4 pa -27.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bb..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bb.Q.116.zqlqmm

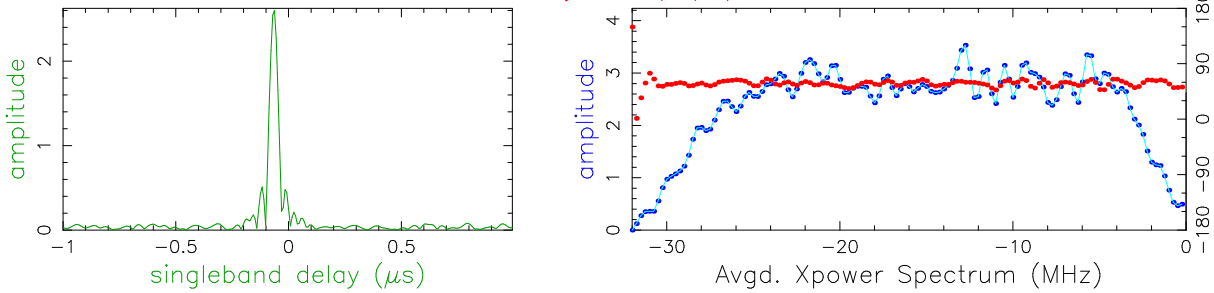
Mk4/DiFX fourfit 3.14 rev 1712

NGC1052.zqlqmm, No0205, bf

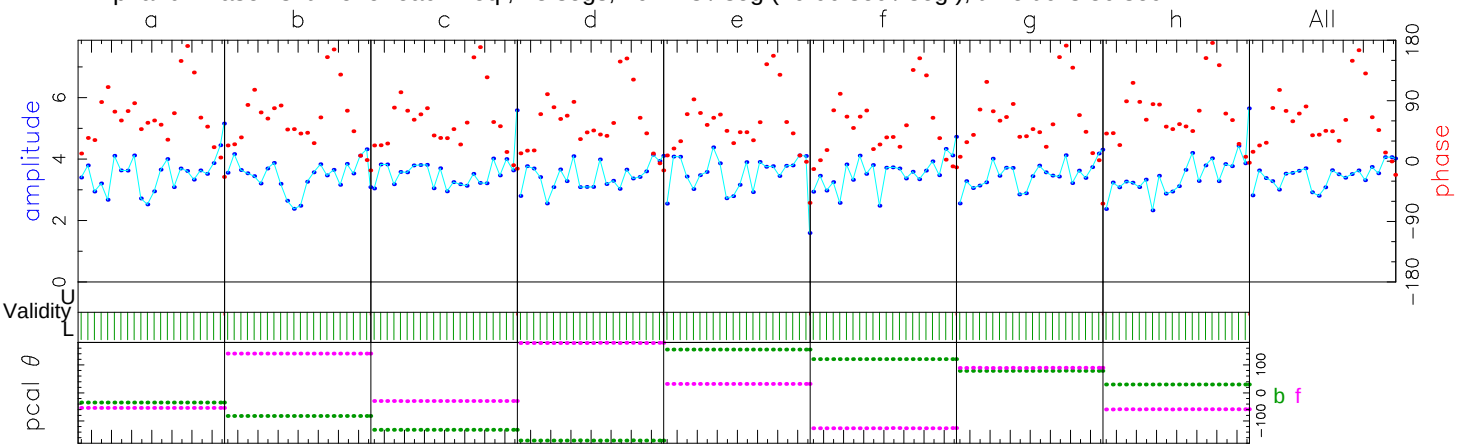
VLBA_BR - VLBA_FD, fgroup Q, pol LL



Fringe quality	6
SNR	104.0
Int time	419.872
Amp	2.625
Phase	57.3
PFD	0.0e+00
Delays (us)	
SBD	-0.065306
MBD	-0.012298
Fringe rate (Hz)	-0.001221
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120309
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"



Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Phase	57.3
	62.7	59.5	55.6	54.4	53.6	47.0	58.2	68.0	Ampl.	2.6
	2.6	2.6	2.7	2.6	2.8	2.6	2.5	2.5	Sbd box	120.6
	120.6	120.7	120.7	120.5	120.7	120.7	120.6	120.6	APs used	
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	PC L delays (ns)	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
f	699.3	702.6	701.4	701.0	700.5	698.7	699.2	699.6	PC phase	
b:f	-35:-54	-83:140	-132:-29	-170:178	155:32	121:-126	79:89	30:-59	Manl PC	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b	17	17	18	19	18	17	17	17		
f	64	71	70	63	65	58	49	55		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
f	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-6.38366736721E+03	Apriori delay (usec)	-6.38365506927E+03	Resid mbdelay (usec)	-1.22979E-02	+/-	2.1E-05
Sband delay (usec)	-6.38372037477E+03	Apriori clock (usec)	-3.6912966E+00	Resid sbdelay (usec)	-6.53055E-02	+/-	1.7E-04
Phase delay (usec)	-6.38365506557E+03	Apriori clockrate (us/s)	4.3343440E-07	Resid phdelay (usec)	3.69930E-06	+/-	7.1E-08
Delay rate (us/s)	1.35882687887E-01	Apriori rate (us/s)	1.35882716272E-01	Resid rate (us/s)	-2.83853E-08	+/-	2.9E-10
Total phase (deg)	-194.8	Apriori accel (us/s/s)	3.01491944249E-05	Resid phase (deg)	57.3	+/-	1.1

	RMS	Theor.	Amplitude	2.625 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	43.1	2.6	Search (1024X32)	2.514	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	33.9	4.6	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	6.8	1.6	Inc. seg. avg.	3.443	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	2.9	2.7	Inc. frq. avg.	2.612	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

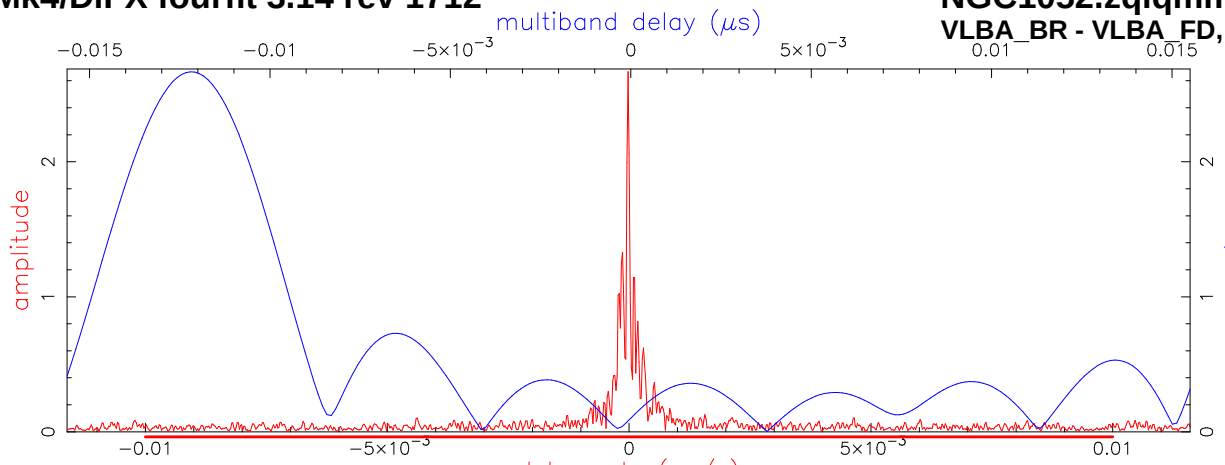
b: az 137.7 el 24.4 pa -27.0 f: az 147.2 el 45.6 pa -27.4 u,v (fr/asec) -373.629 858.078 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bf..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bf.Q.1.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

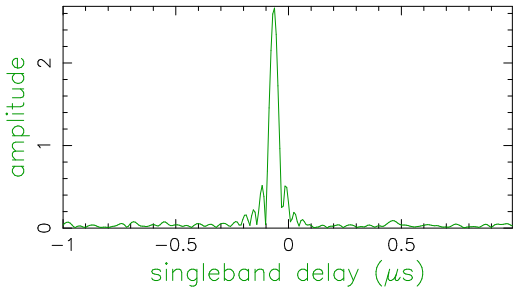
NGC1052.zqlqmm, No0205, bf

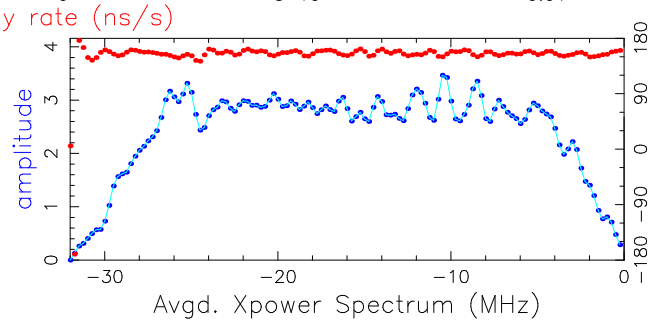
VLBA_BR - VLBA_FD, fgroup Q, pol RR



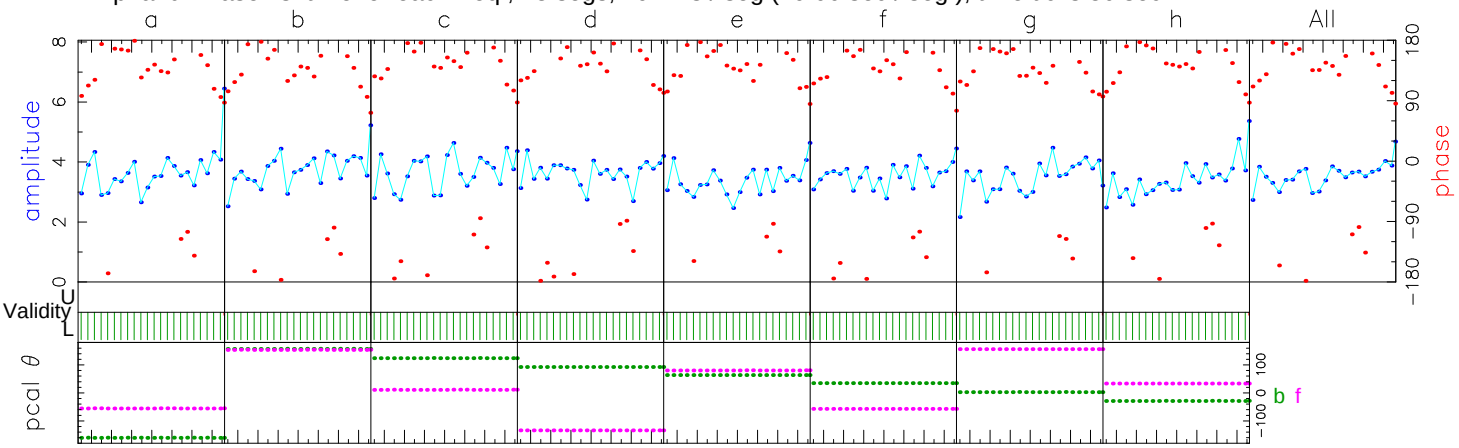
Fringe quality 6

SNR	106.5
Int time	419.872
Amp	2.687
Phase	155.4
PFD	0.0e+00
Delays (us)	
SBD	-0.065004
MBD	-0.012187
Fringe rate (Hz)	-0.001202
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120310 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	150.0	153.3	161.9	161.2	154.0	156.2	148.3	158.2	Phase	155.4
	2.7	2.8	2.8	2.7	2.5	2.7	2.7	2.5	Ampl.	2.7
	120.7	120.8	120.7	120.6	120.6	120.6	120.7	120.7	Sbd box	120.7
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
f	683.1	682.9	682.6	683.1	684.9	683.0	681.1	680.0	PC R delays (ns)	
b:f	-160:-55	157:154	124:11	92:-134	64:80	35:-57	3:156	-29:34	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
f	55	49	50	64	62	67	55	63		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids Tracks	
f	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids Tracks	

Group delay (usec)(model)	-6.38366725646E+03	Apriori delay (usec)	-6.38365506927E+03	Resid mbdelay (usec)	-1.21872E-02	+/-	2.0E-05
Sband delay (usec)	-6.38372007327E+03	Apriori clock (usec)	-3.6912966E+00	Resid sbdelay (usec)	-6.50040E-02	+/-	1.6E-04
Phase delay (usec)	-6.38365505924E+03	Apriori clockrate (us/s)	4.3343440E-07	Resid phdelay (usec)	1.00315E-05	+/-	6.9E-08
Delay rate (us/s)	1.35882688327E-01	Apriori rate (us/s)	1.35882716272E-01	Resid rate (us/s)	-2.79452E-08	+/-	2.9E-10
Total phase (deg)	-96.7	Apriori accel (us/s/s)	3.01491944249E-05	Resid phase (deg)	155.4	+/-	1.1

	RMS	Theor.	Amplitude	2.687 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	42.8	2.6	Search (1024X32)	2.570	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	33.4	4.5	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	5.3	1.5	Inc. seg. avg.	3.515	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	4.1	2.7	Inc. frq. avg.	2.675	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

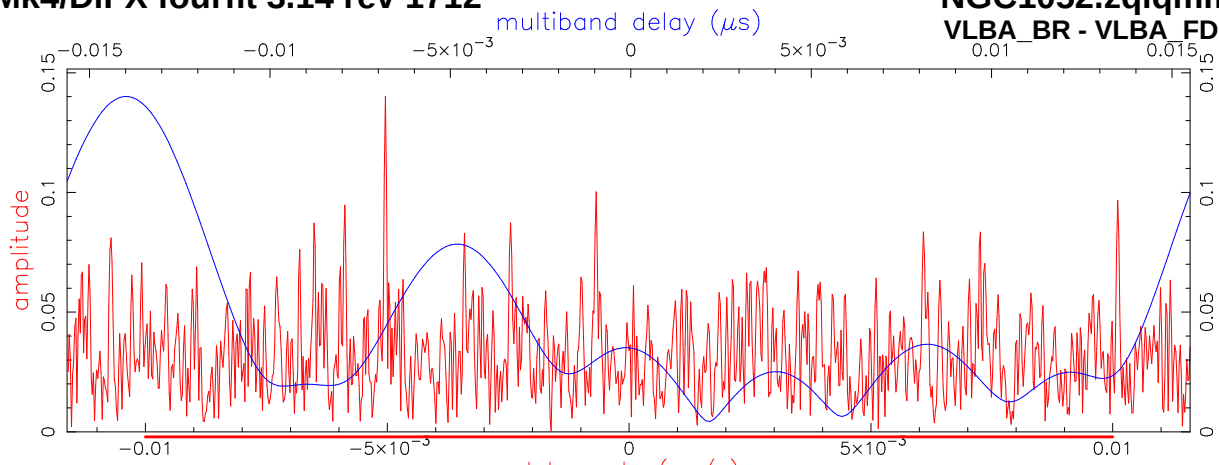
b: az 137.7 el 24.4 pa -27.0 f: az 147.2 el 45.6 pa -27.4 u,v (fr/asec) -373.629 858.078 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bf..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bf.Q.2.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

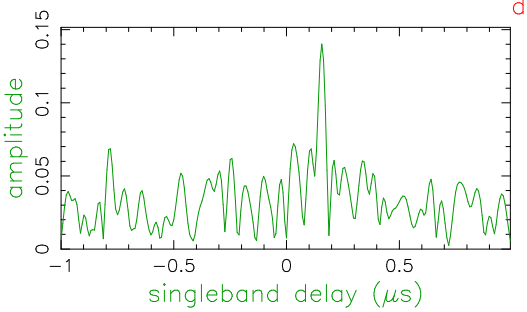
NGC1052.zqlqmm, No0205, bf

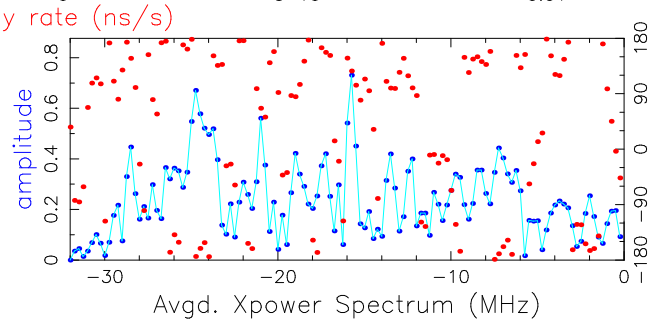
VLBA_BR - VLBA_FD, fgroup Q, pol LR



Fringe quality 0

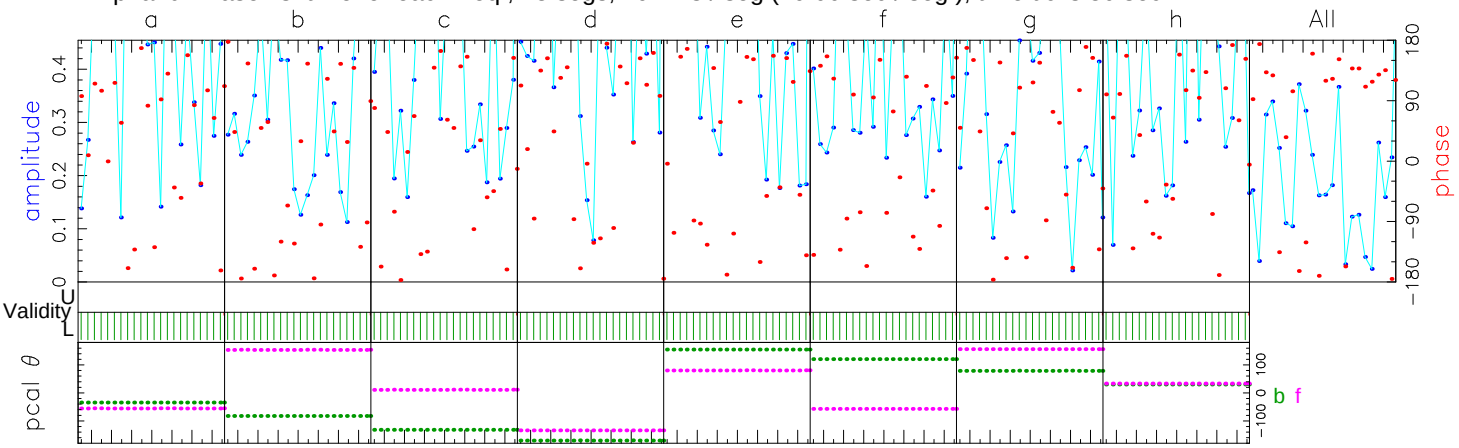
SNR 5.6
Int time 419.872
Amp 0.152
Phase 153.6
PFD 7.7e-01
Delays (us)
SBD 0.156405
MBD -0.013990
Fringe rate (Hz)
-0.216892
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120311
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	132.2	-166.7	133.3	148.2	-177.6	-177.8	138.5	139.2	Phase	153.6
	0.2	0.1	0.1	0.3	0.2	0.1	0.1	0.2	Ampl.	0.1
	209.7	244.8	243.3	148.6	246.0	229.6	66.7	66.1	Sbd box	149.0
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
f	683.1	682.9	682.6	683.1	684.9	683.0	681.1	680.0	PC R delays (ns)	
b:f	-35:-55	-83:154	-132:11	-170:-134	155:80	121:-57	79:156	30:34	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
f	55	49	50	64	62	67	55	63		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
f	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-6.38366905893E+03	Apriori delay (usec)	-6.38365506927E+03	Resid mbdelay (usec)	-1.39897E-02	+/-	3.9E-04
Sband delay (usec)	-6.38349866427E+03	Apriori clock (usec)	-3.6912966E+00	Resid sbdelay (usec)	1.56405E-01	+/-	3.1E-03
Phase delay (usec)	-6.38365505935E+03	Apriori clockrate (us/s)	4.3343440E-07	Resid phdelay (usec)	9.91457E-06	+/-	1.3E-06
Delay rate (us/s)	1.35877675079E-01	Apriori rate (us/s)	1.35882716272E-01	Resid rate (us/s)	-5.04119E-06	+/-	5.5E-09
Total phase (deg)	-98.5	Apriori accel (us/s/s)	3.01491944249E-05	Resid phase (deg)	153.6	+/-	20.6

	RMS	Theor.	Amplitude	0.152 +/- 0.027
ph/seg (deg)	46.3	49.5	Search (1024X32)	0.138
amp/seg (%)	85.9	86.4	Interp.	0.000
ph/frq (deg)	27.6	29.2	Inc. seg. avg.	0.150
amp/frq (%)	42.1	50.9	Inc. frq. avg.	0.144

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

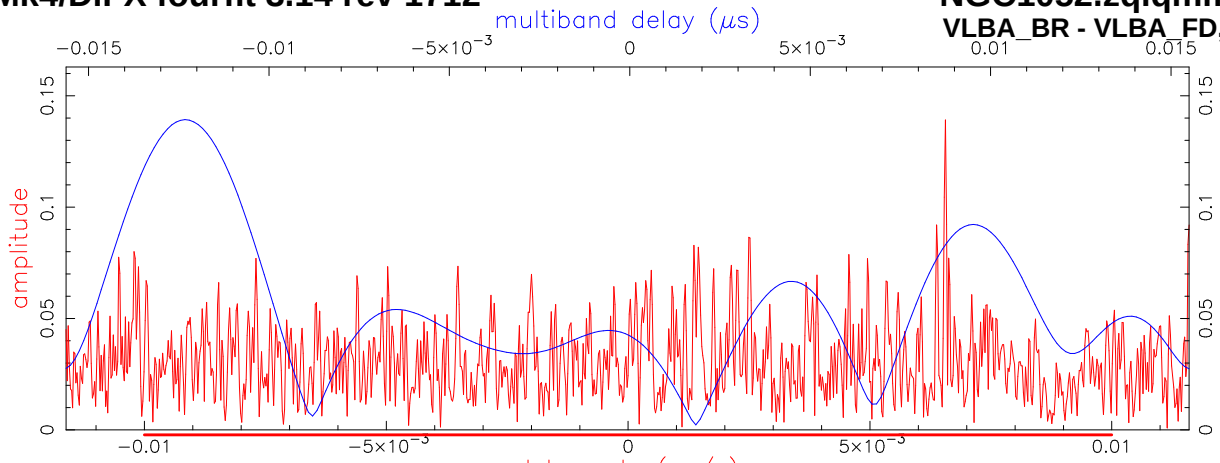
b: az 137.7 el 24.4 pa -27.0 f: az 147.2 el 45.6 pa -27.4 u,v (fr/asec) -373.629 858.078 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bf..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bf.Q.3.zqlqmm

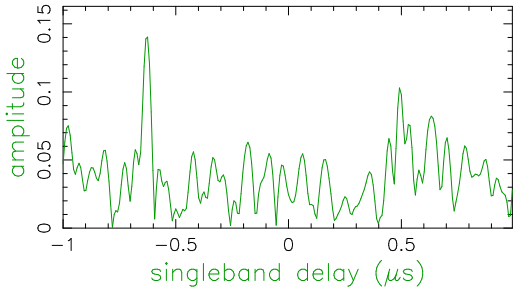
Mk4/DiFX fourfit 3.14 rev 1712

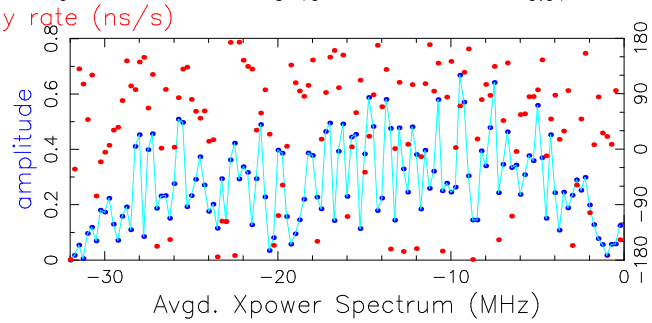
NGC1052.zqlqmm, No0205, bf

VLBA_BR - VLBA_FD, fgroup Q, pol RL

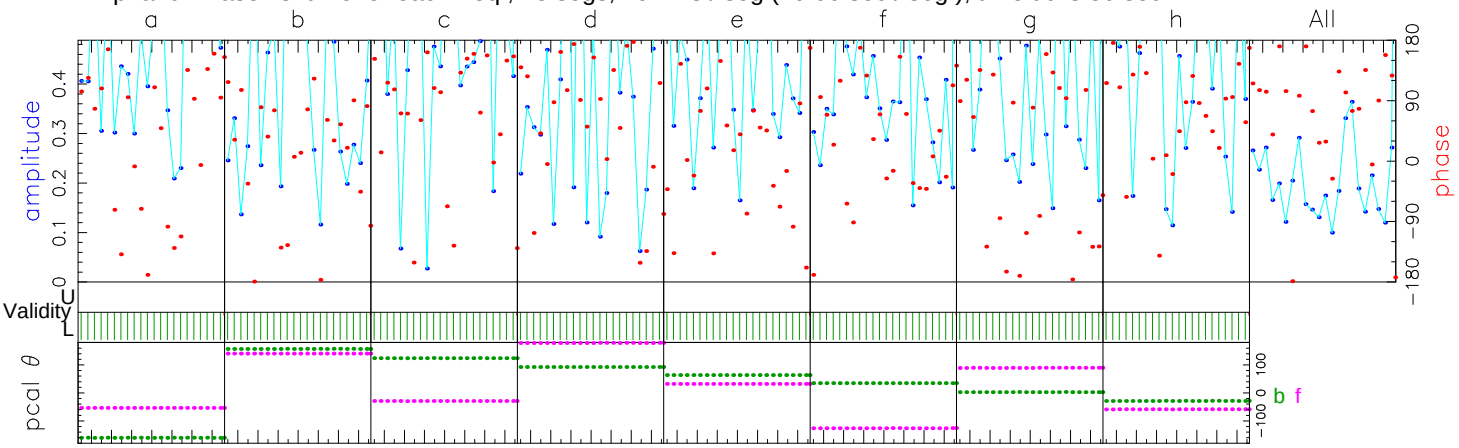


Fringe quality	0
SNR	5.6
Int time	419.872
Amp	0.163
Phase	102.8
PFD	5.9e-01
Delays (us)	
SBD	-0.628451
MBD	-0.012413
Fringe rate (Hz)	0.282539
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120312 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Phase	102.8
	121.8	51.6	123.9	116.8	37.5	53.6	156.0	99.6	Ampl.	0.2
	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	Sbd box	48.6
	49.9	59.4	212.8	54.9	105.4	183.2	89.3	46.6	APs used	
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	PC R delays (ns)	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC L delays (ns)	
f	699.3	702.6	701.4	701.0	700.5	698.7	699.2	699.6	PC phase	
b:f	-160:-54	157:140	124:-29	92:178	64:32	35:-126	3:89	-29:-59	Manl PC	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b	7	8	9	10	11	10	10	10		
f	64	71	70	63	65	58	49	55		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
f	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-6.38366748250E+03	Apriori delay (usec)	-6.38365506927E+03	Resid mbdelay (usec)	-1.24132E-02	+/-	3.8E-04
Sband delay (usec)	-6.38428352027E+03	Apriori clock (usec)	-3.6912966E+00	Resid sbdelay (usec)	-6.28451E-01	+/-	3.1E-03
Phase delay (usec)	-6.38365506263E+03	Apriori clockrate (us/s)	4.3343440E-07	Resid phdelay (usec)	6.63879E-06	+/-	1.3E-06
Delay rate (us/s)	1.35889283284E-01	Apriori rate (us/s)	1.35882716272E-01	Resid rate (us/s)	6.56701E-06	+/-	5.4E-09
Total phase (deg)	-149.2	Apriori accel (us/s/s)	3.01491944249E-05	Resid phase (deg)	102.8	+/-	20.3

	RMS	Theor.	Amplitude	0.163 +/- 0.029
ph/seg (deg)	55.4	48.7	Search (1024X32)	0.135
amp/seg (%)	82.2	85.0	Interp.	0.000
ph/frq (deg)	46.8	28.7	Inc. seg. avg.	0.173
amp/frq (%)	34.4	50.1	Inc. frq. avg.	0.175

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

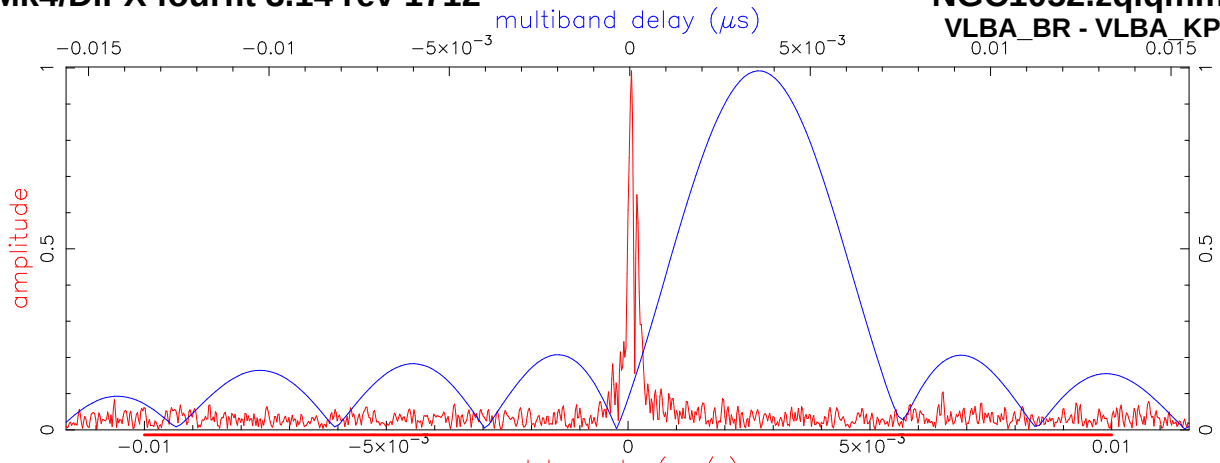
b: az 137.7 el 24.4 pa -27.0 f: az 147.2 el 45.6 pa -27.4 u,v (fr/asec) -373.629 858.078 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bf..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bf.Q.4.zqlqmm

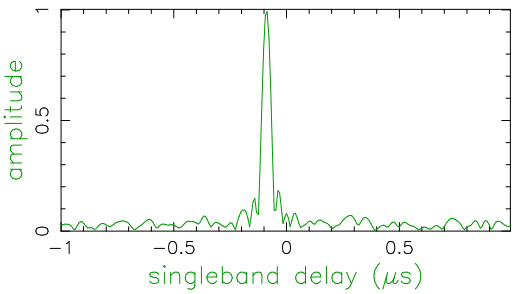
Mk4/DiFX fourfit 3.14 rev 1712

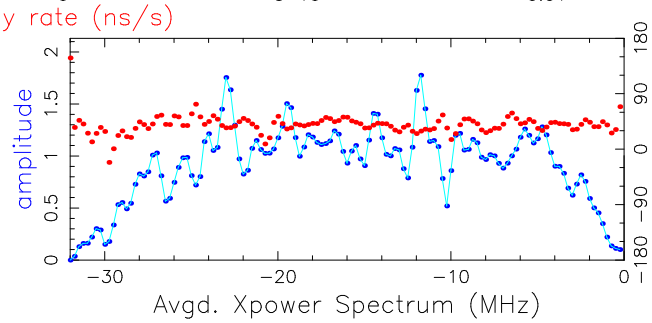
NGC1052.zqlqmm, No0205, bk

VLBA_BR - VLBA_KP, fgroup Q, pol LL

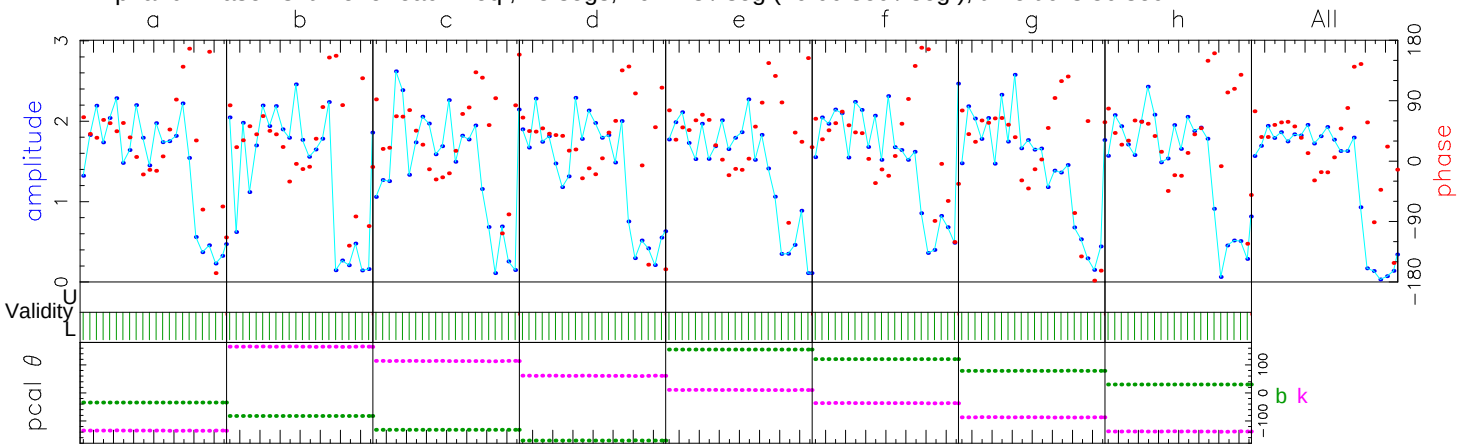


Fringe quality	7
Error code	H
SNR	39.7
Int time	419.986
Amp	1.003
Phase	38.8
PFD	0.0e+00
Delays (us)	
SBD	-0.088886
MBD	0.003561
Fringe rate (Hz)	0.002663
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120313 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	40.9	35.8	41.6	34.3	39.9	34.6	44.7	39.0	Phase	38.8
	1.0	1.0	0.9	1.0	1.1	1.0	1.0	1.0	Ampl.	1.0
	117.8	117.7	118.0	117.5	117.6	117.6	117.7	117.2	Sbd box	117.6
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
k	690.9	692.3	691.7	690.9	690.6	690.8	691.6	690.6	PC L delays (ns)	
b:k	-35:-135	-83:165	-132:114	-170:61	155:11	121:-36	79:-87	30:-138	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
k	4	4	3	3	3	3	3	4		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
k	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.06157132958E+03	Apriori delay (usec)	-5.06157489072E+03	Resid mbdelay (usec)	3.56114E-03	+/-	5.5E-05
Sband delay (usec)	-5.06166377622E+03	Apriori clock (usec)	-1.3538303E+00	Resid sbdelay (usec)	-8.88855E-02	+/-	4.3E-04
Phase delay (usec)	-5.06157488822E+03	Apriori clockrate (us/s)	-5.0500023E-08	Resid phdelay (usec)	2.50412E-06	+/-	1.9E-07
Delay rate (us/s)	-1.49339781589E-02	Apriori rate (us/s)	-1.49340400561E-02	Resid rate (us/s)	6.18971E-08	+/-	7.7E-10
Total phase (deg)	3.4	Apriori accel (us/s/s)	2.34481409380E-05	Resid phase (deg)	38.8	+/-	2.9

	RMS	Theor.	Amplitude	1.003 +/- 0.025
ph/seg (deg)	64.3	6.9	Search (1024X32)	0.970
amp/seg (%)	79.2	12.1	Interp.	0.000
ph/frq (deg)	4.0	4.1	Inc. seg. avg.	1.349
amp/frq (%)	4.6	7.1	Inc. frq. avg.	0.991

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

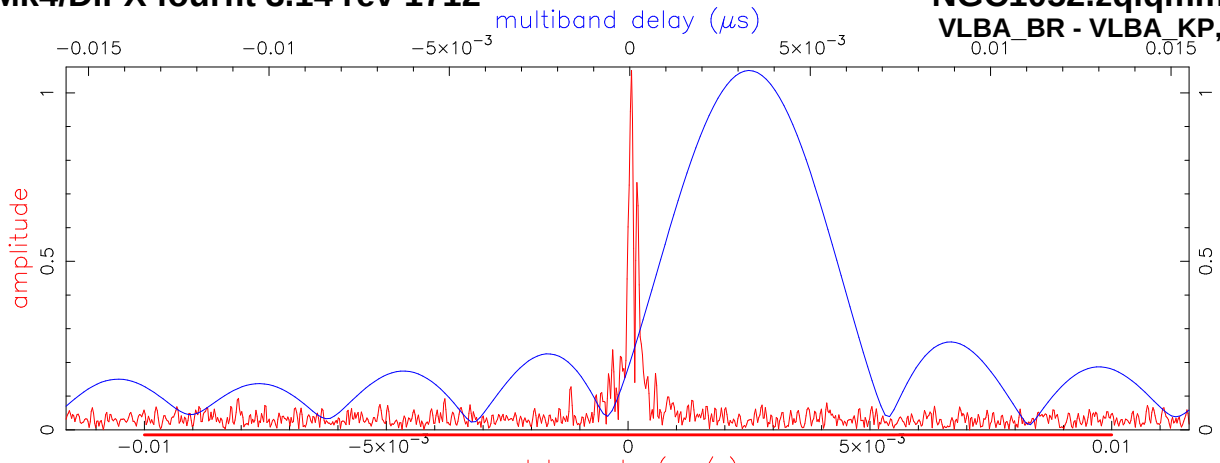
b: az 137.7 el 24.4 pa -27.0 k: az 139.0 el 40.6 pa -33.4 u,v (fr/asec) 57.782 811.066 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bk..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bk.Q.5.zqlqmm

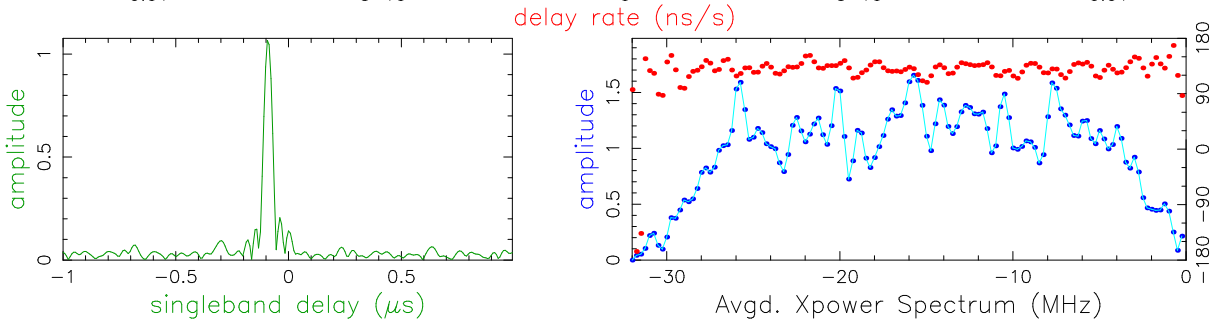
Mk4/DiFX fourfit 3.14 rev 1712

NGC1052.zqlqmm, No0205, bk

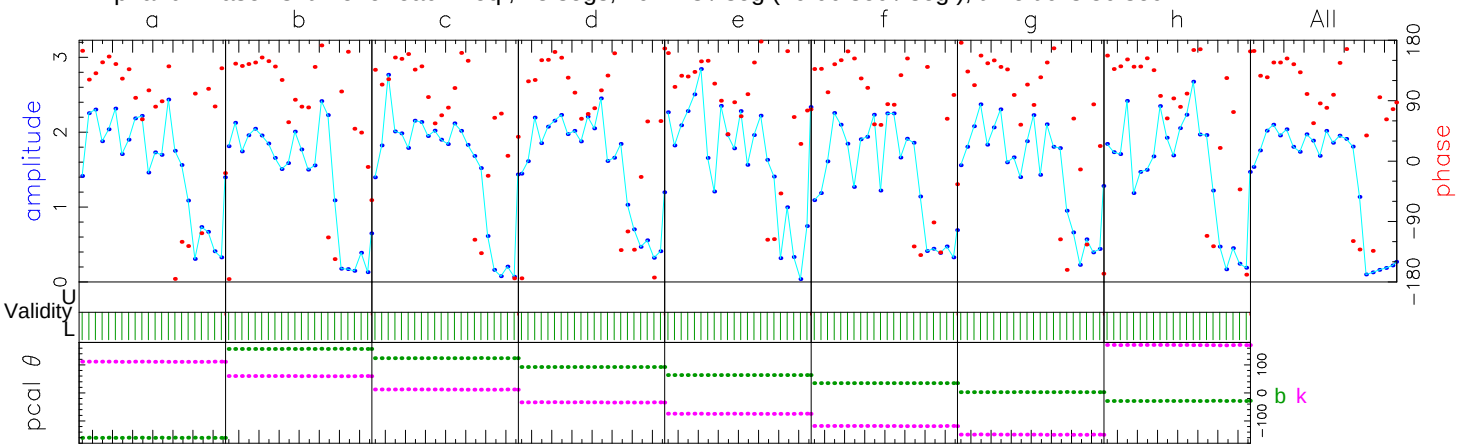
VLBA_BR - VLBA_KP, fgroup Q, pol RR



Fringe quality	7
SNR	42.7
Int time	419.986
Amp	1.077
Phase	131.5
PFD	0.0e+00
Delays (us)	
SBD	-0.090868
MBD	0.003309
Fringe rate (Hz)	0.002612
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120314 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"



Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	131.0	140.3	128.4	129.8	126.3	126.3	135.7	134.4	Phase	131.5
	1.1	1.0	1.1	1.1	1.1	1.0	1.1	1.0	Ampl.	1.1
	117.4	117.2	117.2	117.4	117.8	117.6	116.9	117.4	Sbd box	117.4
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
k	675.5	676.2	675.7	674.3	674.6	674.5	674.9	675.1	PC R delays (ns)	
b:k	-160:111	157:60	124:12	92:-34	64:-75	35:-118	3:-149	-29:171	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
k	7	8	7	7	8	8	7	6		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
k	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.06157158171E+03	Apriori delay (usec)	-5.06157489072E+03	Resid mbdelay (usec)	3.30902E-03	+/-	5.1E-05
Sband delay (usec)	-5.06166575872E+03	Apriori clock (usec)	-1.3538303E+00	Resid sbdelay (usec)	-9.08680E-02	+/-	4.0E-04
Phase delay (usec)	-5.06157488223E+03	Apriori clockrate (us/s)	-5.0500023E-08	Resid phdelay (usec)	8.48937E-06	+/-	1.7E-07
Delay rate (us/s)	-1.49339793443E-02	Apriori rate (us/s)	-1.49340400561E-02	Resid rate (us/s)	6.07118E-08	+/-	7.2E-10
Total phase (deg)	96.1	Apriori accel (us/s/s)	2.34481409380E-05	Resid phase (deg)	131.5	+/-	2.7

	RMS	Theor.	Amplitude	1.077 +/- 0.025
ph/seg (deg)	54.0	6.4	Search (1024X32)	1.036
amp/seg (%)	76.2	11.2	Interp.	0.000
ph/frq (deg)	5.3	3.8	Inc. seg. avg.	1.440
amp/frq (%)	4.6	6.6	Inc. frq. avg.	1.067

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

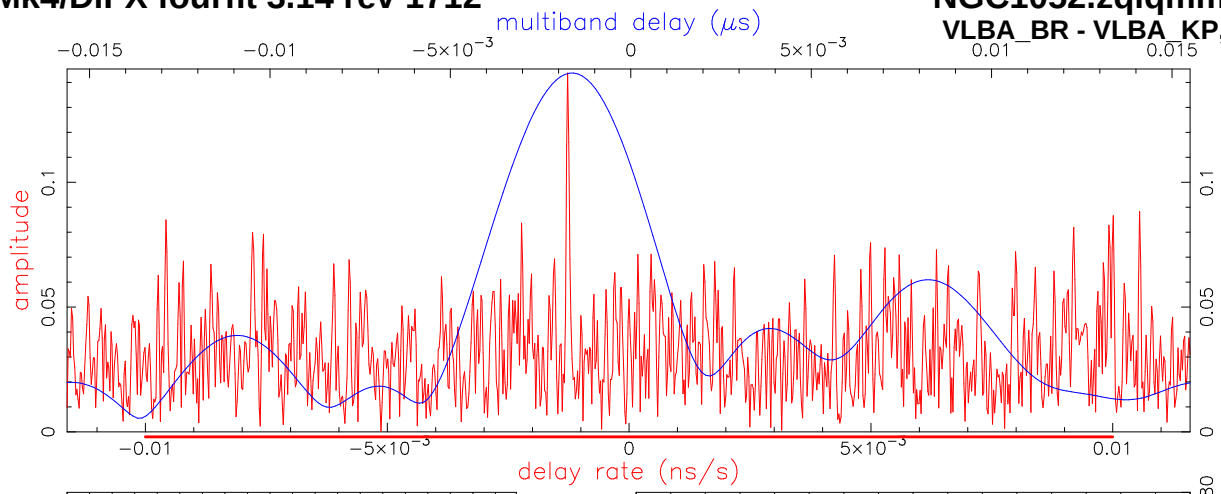
b: az 137.7 el 24.4 pa -27.0 k: az 139.0 el 40.6 pa -33.4 u,v (fr/asec) 57.782 811.066 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bk..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bk.Q.6.zqlqmm

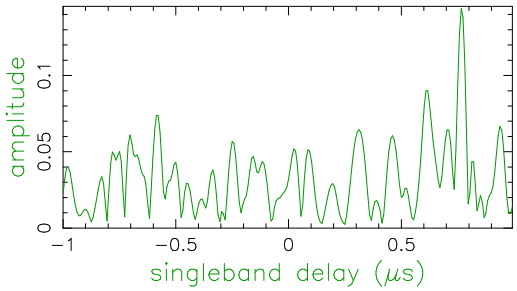
Mk4/DiFX fourfit 3.14 rev 1712

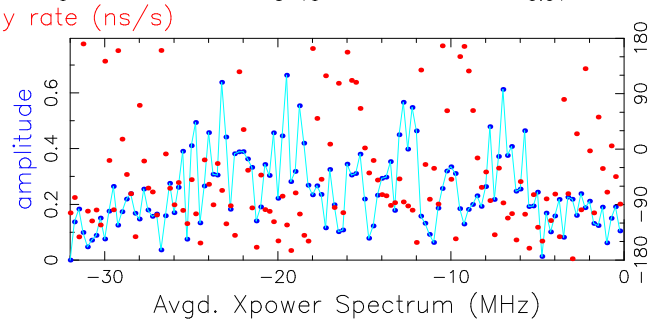
NGC1052.zqlqmm, No0205, bk

VLBA_BR - VLBA_KP, fgroup Q, pol LR

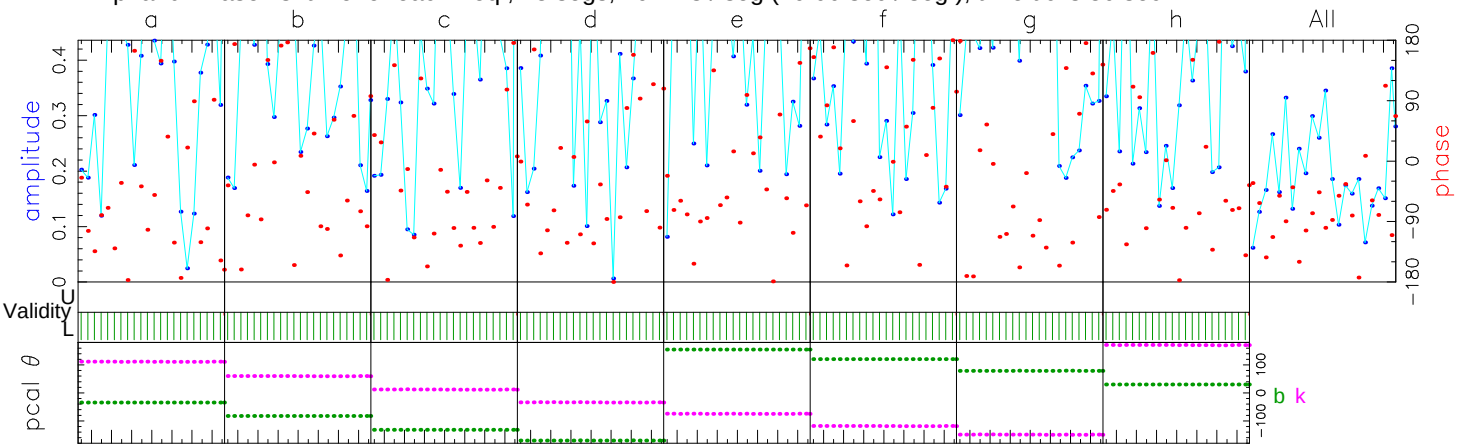


Fringe quality	0
SNR	5.7
Int time	419.986
Amp	0.145
Phase	-88.8
PFD	4.1e-01
Delays (us)	
SBD	0.767731
MBD	-0.001627
Fringe rate (Hz)	-0.054438
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120315
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-103.9	-97.7	-68.3	-92.5	-68.8	-65.2	-107.3	-90.6	Phase	-88.8
	0.1	0.1	0.1	0.2	0.2	0.0	0.2	0.2	Ampl.	0.1
	74.3	254.3	206.9	226.5	150.3	204.4	150.7	114.8	Sbd box	227.3
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
k	675.5	676.2	675.7	674.3	674.6	674.5	674.9	675.1	PC R delays (ns)	
b:k	-35:111	-83:60	-132:12	-170:-34	155:-75	121:-118	79:-149	30:171	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
k	7	8	7	7	8	8	7	6		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
k	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.06157651770E+03	Apriori delay (usec)	-5.06157489072E+03	Resid mbdelay (usec)	-1.62698E-03	+/-	3.8E-04
Sband delay (usec)	-5.06080715972E+03	Apriori clock (usec)	-1.3538303E+00	Resid sbdelay (usec)	7.67731E-01	+/-	3.0E-03
Phase delay (usec)	-5.06157489646E+03	Apriori clockrate (us/s)	-5.0500023E-08	Resid phdelay (usec)	-5.73465E-06	+/-	1.3E-06
Delay rate (us/s)	-1.49353053498E-02	Apriori rate (us/s)	-1.49340400561E-02	Resid rate (us/s)	-1.26529E-06	+/-	5.3E-09
Total phase (deg)	-124.3	Apriori accel (us/s/s)	2.34481409380E-05	Resid phase (deg)	-88.8	+/-	20.0

	RMS	Theor.	Amplitude	0.145 +/- 0.025
ph/seg (deg)	55.3	47.9	Search (1024X32)	0.139
amp/seg (%)	68.9	83.7	Interp.	0.000
ph/frq (deg)	18.5	28.3	Inc. seg. avg.	0.146
amp/frq (%)	36.9	49.3	Inc. frq. avg.	0.133

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

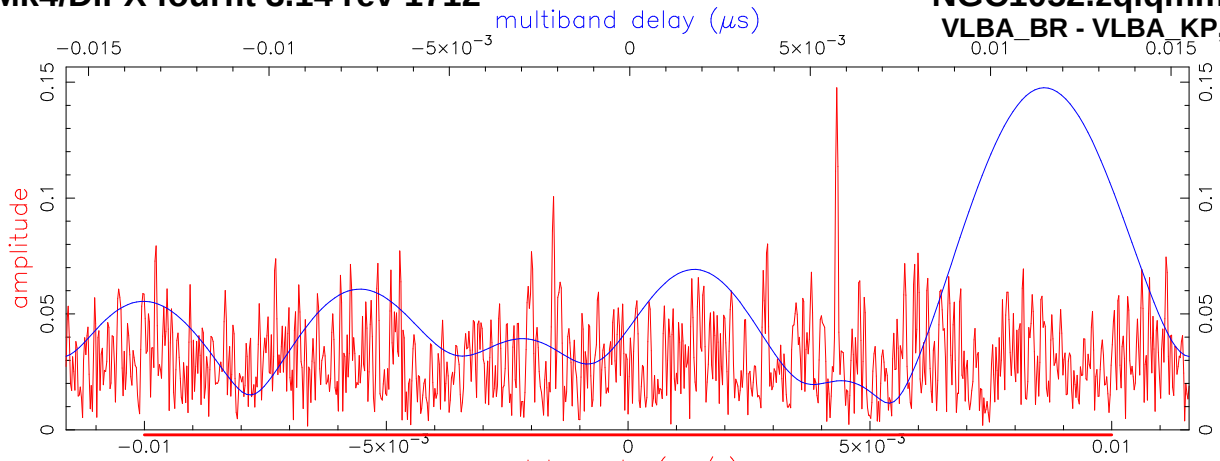
b: az 137.7 el 24.4 pa -27.0 k: az 139.0 el 40.6 pa -33.4 u,v (fr/asec) 57.782 811.066 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bk..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bk.Q.7.zqlqmm

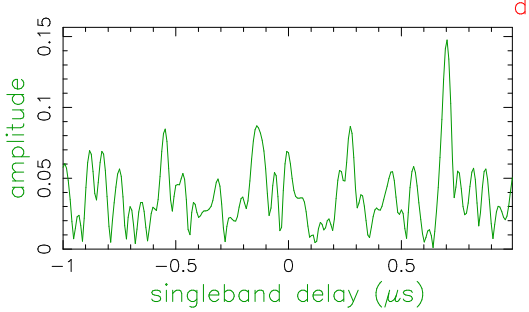
Mk4/DiFX fourfit 3.14 rev 1712

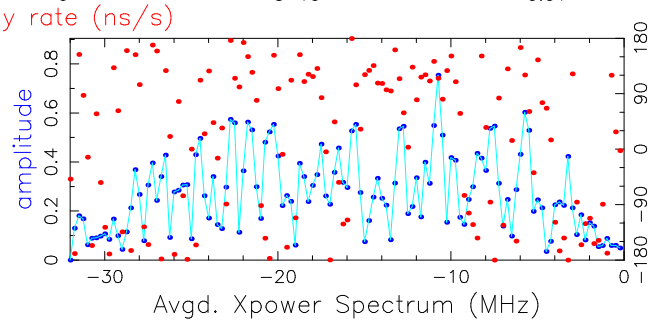
NGC1052.zqlqmm, No0205, bk

VLBA_BR - VLBA_KP, fgroup Q, pol RL

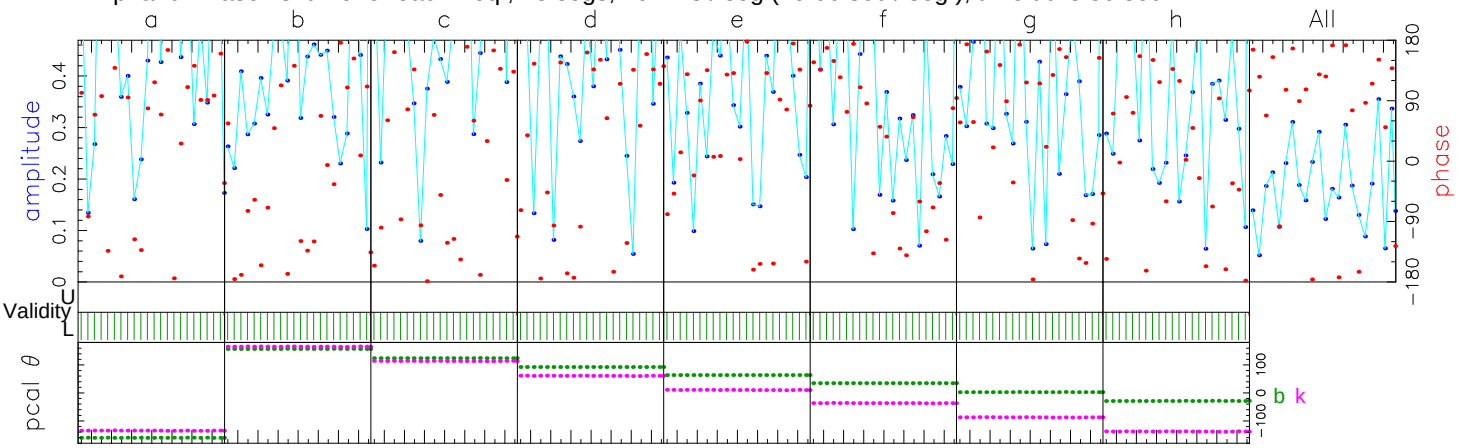


Fringe quality	0
SNR	5.9
Int time	419.986
Amp	0.157
Phase	140.8
PFD	2.2e-01
Delays (us)	
SBD	0.701789
MBD	0.011473
Fringe rate (Hz)	0.185287
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120315 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Phase	140.8
	122.1	171.9	167.0	155.8	112.1	137.0	159.4	82.2	Ampl.	0.2
	0.4	0.1	0.2	0.2	0.1	0.2	0.1	0.1	Sbd box	218.8
	219.1	32.9	146.5	158.1	156.3	102.7	115.3	107.7	APs used	
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	PC R delays (ns)	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC L delays (ns)	
k	690.9	692.3	691.7	690.9	690.6	690.8	691.6	690.6	PC phase	
b:k	-160:-135	157:165	124:114	92:61	64:11	35:-36	3:-87	-29:-138	Manl PC	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b	7	8	9	10	11	10	10	10		
k	4	4	3	3	3	3	3	4		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
k	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.06156341735E+03	Apriori delay (usec)	-5.06157489072E+03	Resid mbdelay (usec)	1.14734E-02	+/-	3.7E-04
Sband delay (usec)	-5.06087310172E+03	Apriori clock (usec)	-1.3538303E+00	Resid sbdelay (usec)	7.01789E-01	+/-	2.9E-03
Phase delay (usec)	-5.06157488163E+03	Apriori clockrate (us/s)	-5.0500023E-08	Resid phdelay (usec)	9.08928E-06	+/-	1.3E-06
Delay rate (us/s)	-1.49297334597E-02	Apriori rate (us/s)	-1.49340400561E-02	Resid rate (us/s)	4.30660E-06	+/-	5.2E-09
Total phase (deg)	105.4	Apriori accel (us/s/s)	2.34481409380E-05	Resid phase (deg)	140.8	+/-	19.6

	RMS	Theor.	Amplitude	0.157 +/- 0.027
ph/seg (deg)	49.1	46.9	Search (1024X32)	0.144
amp/seg (%)	64.2	81.8	Interp.	0.000
ph/frq (deg)	33.8	27.7	Inc. seg. avg.	0.153
amp/frq (%)	55.7	48.3	Inc. frq. avg.	0.152

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

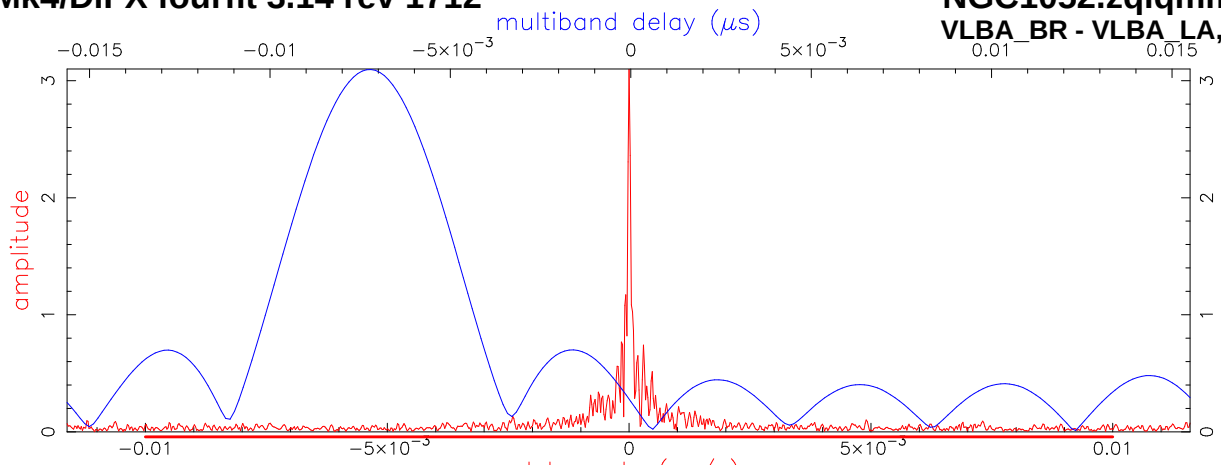
b: az 137.7 el 24.4 pa -27.0 k: az 139.0 el 40.6 pa -33.4 u,v (fr/asec) 57.782 811.066 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bk..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bk.Q.8.zqlqmm

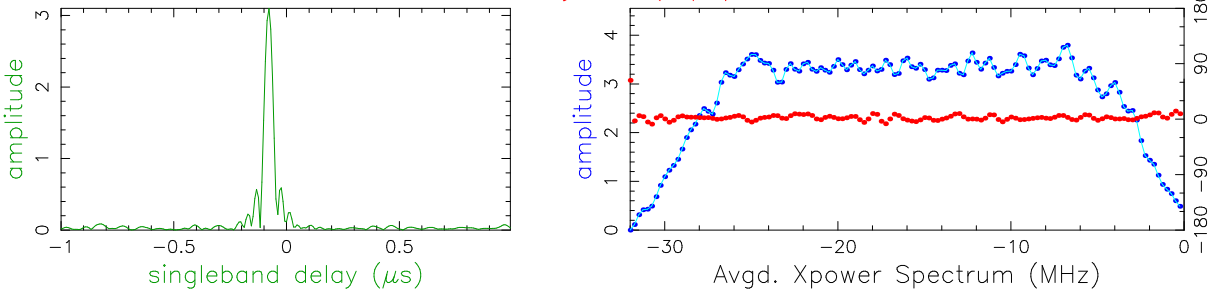
Mk4/DiFX fourfit 3.14 rev 1712

NGC1052.zqlqmm, No0205, bl

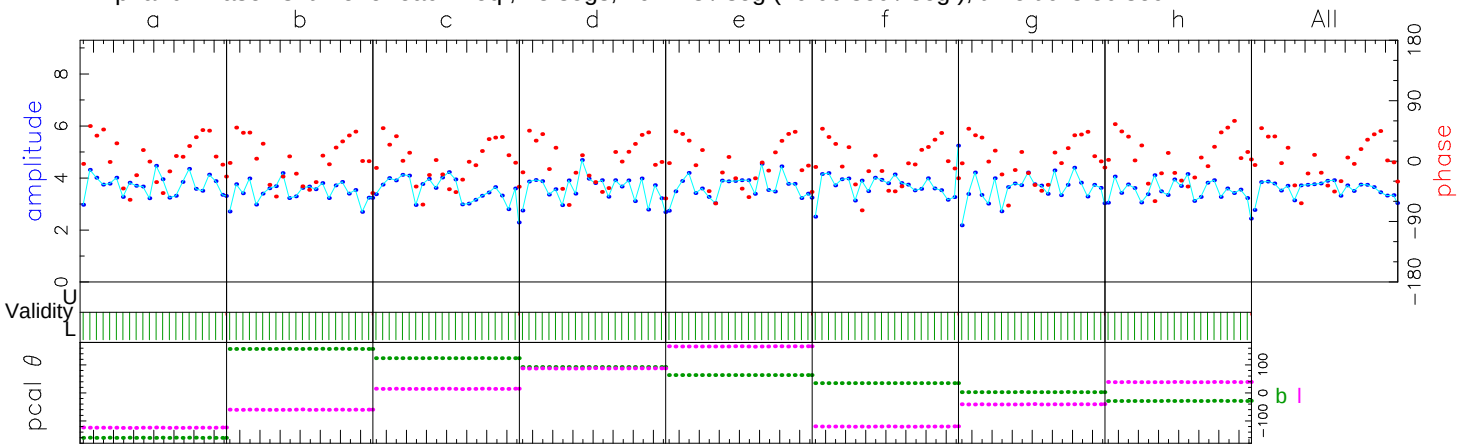
VLBA_BR - VLBA_LA, fgroup Q, pol RR



Fringe quality	7
SNR	122.8
Int time	419.986
Amp	3.100
Phase	2.0
PFD	0.0e+00
Delays (us)	
SBD	-0.079163
MBD	-0.007236
Fringe rate (Hz)	-0.000432
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120318 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"



Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Phase	2.0
	6.8	2.8	-1.1	-0.3	-1.2	-1.5	4.6	6.0	Ampl.	3.1
	3.2	3.0	3.1	3.1	3.1	3.2	3.1	3.0	Sbd box	118.9
	118.9	118.7	118.9	118.8	118.8	119.0	118.9	118.9	APs used	
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	PC R delays (ns)	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
l	887.5	886.4	886.1	886.6	885.9	886.6	885.6	886.1	PC phase	
b:l	-160:-124	157:-60	124:15	92:87	64:166	35:-120	3:-41	-29:39	Manl PC	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b	7	8	9	10	11	10	10	10		
l	10	10	10	10	9	10	9	10		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids Tracks	
l	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids Tracks	

Group delay (usec)(model)	-4.93031241853E+03	Apriori delay (usec)	-4.93030518228E+03	Resid mbdelay (usec)	-7.23625E-03	+/-	1.8E-05
Sband delay (usec)	-4.93038434578E+03	Apriori clock (usec)	-1.0289764E-01	Resid sbdelay (usec)	-7.91635E-02	+/-	1.4E-04
Phase delay (usec)	-4.93030518215E+03	Apriori clockrate (us/s)	1.1323993E-07	Resid phdelay (usec)	1.30427E-07	+/-	6.0E-08
Delay rate (us/s)	1.17320823725E-01	Apriori rate (us/s)	1.17320833764E-01	Resid rate (us/s)	-1.00395E-08	+/-	2.5E-10
Total phase (deg)	-56.5	Apriori accel (us/s/s)	2.36454051505E-05	Resid phase (deg)	2.0	+/-	0.9

	RMS	Theor.	Amplitude	3.100 +/- 0.025
ph/seg (deg)	30.7	2.2	Search (1024X32)	2.887
amp/seg (%)	18.4	3.9	Interp.	0.000
ph/frq (deg)	3.7	1.3	Inc. seg. avg.	3.596
amp/frq (%)	2.2	2.3	Inc. frq. avg.	3.100

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

b: az 137.7 el 24.4 pa -27.0 l: az 147.0 el 40.2 pa -25.7 u,v (fr/asec) -323.975 566.326 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bl..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bl.Q.10.zqlqmm

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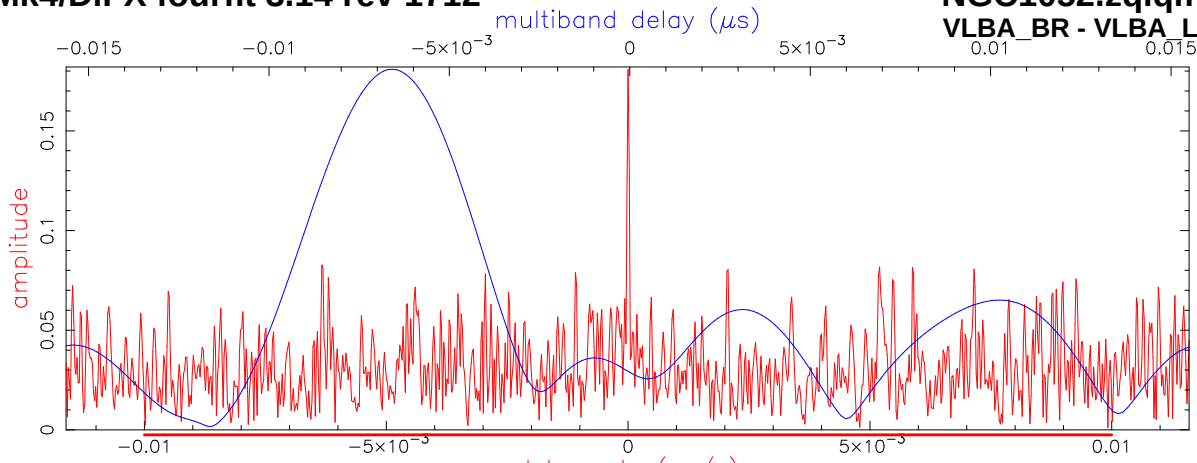
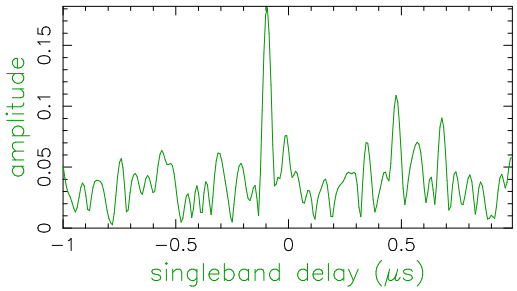
NGC1052.zqlqmm, No0205, bl

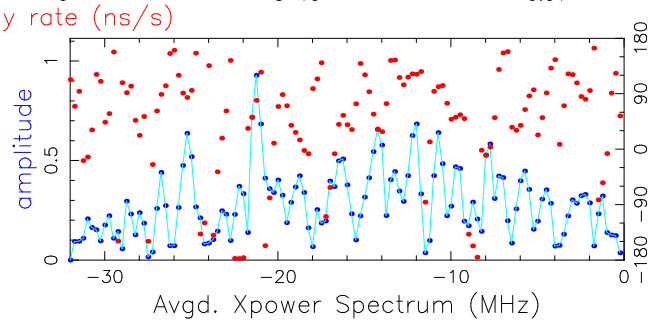
VLBA_BR - VLBA_LA, fgroup Q, pol LR



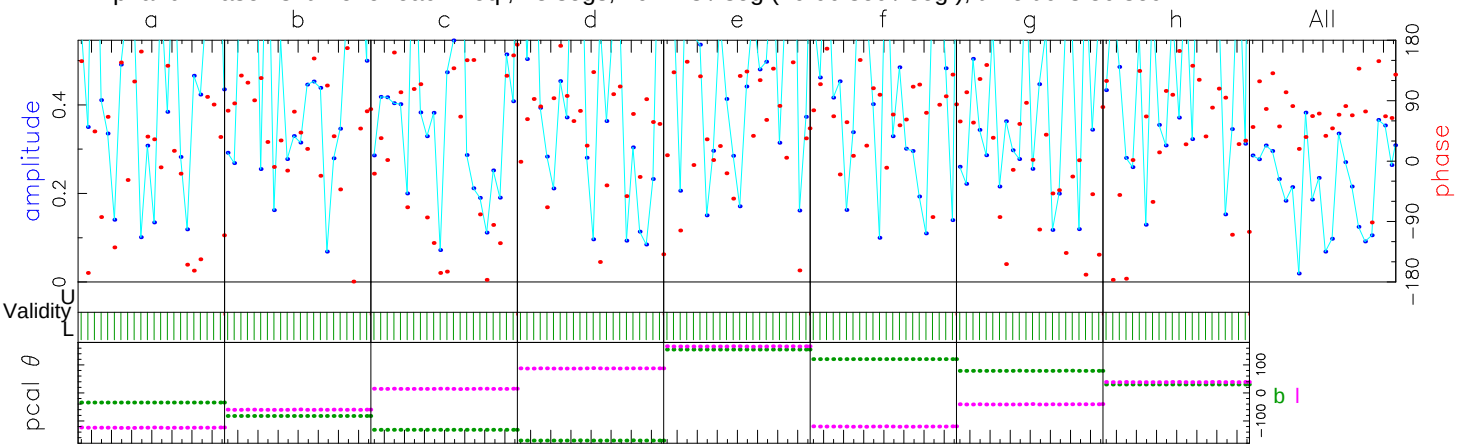
Fringe quality 9

SNR	7.2
Int time	419.986
Amp	0.182
Phase	79.3
PFD	3.6e-05
Delays (us)	
SBD	-0.095972
MBD	-0.006595
Fringe rate (Hz)	-0.000425
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120319
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	68.7	74.0	127.4	72.5	80.9	76.0	37.5	84.9	Phase	79.3
	0.2	0.3	0.1	0.3	0.2	0.2	0.0	0.2	Ampl.	0.2
	188.6	116.9	6.4	116.4	128.0	117.3	57.4	72.9	Sbd box	116.7
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
l	887.5	886.4	886.1	886.6	885.9	886.6	885.6	886.1	PC R delays (ns)	
b:l	-35:-124	-83:-60	-132:15	-170:87	155:166	121:-120	79:-41	30:39	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
l	10	10	10	10	9	10	9	10		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
l	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.93031177678E+03	Apriori delay (usec)	-4.93030518228E+03	Resid mbdelay (usec)	-6.59450E-03	+/-	3.0E-04
Sband delay (usec)	-4.93040115428E+03	Apriori clock (usec)	-1.0289764E-01	Resid sbdelay (usec)	-9.59720E-02	+/-	2.4E-03
Phase delay (usec)	-4.93030517717E+03	Apriori clockrate (us/s)	1.1323993E-07	Resid phdelay (usec)	5.11792E-06	+/-	1.0E-06
Delay rate (us/s)	1.17320823896E-01	Apriori rate (us/s)	1.17320833764E-01	Resid rate (us/s)	-9.86804E-09	+/-	4.2E-09
Total phase (deg)	20.7	Apriori accel (us/s/s)	2.36454051505E-05	Resid phase (deg)	79.3	+/-	15.9

	RMS	Theor.	Amplitude	0.182 +/- 0.025
ph/seg (deg)	49.0	38.1	Search (1024X32)	0.171
amp/seg (%)	60.0	66.5	Interp.	0.000
ph/frq (deg)	26.8	22.5	Inc. seg. avg.	0.183
amp/frq (%)	39.6	39.2	Inc. frq. avg.	0.175

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

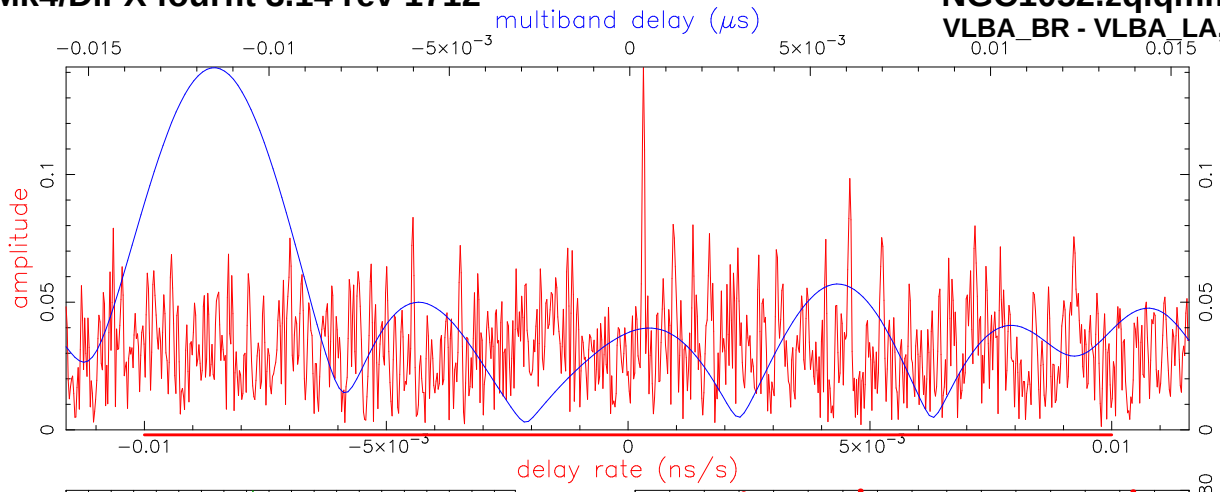
b: az 137.7 el 24.4 pa -27.0 l: az 147.0 el 40.2 pa -25.7 u,v (fr/asec) -323.975 566.326 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bl..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bl.Q.11.zqlqmm

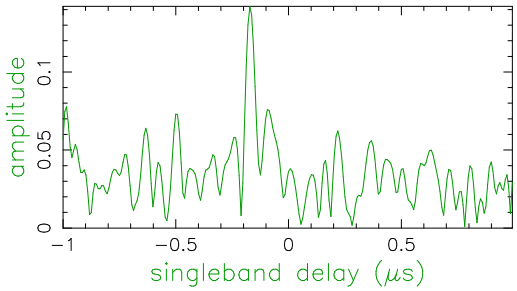
Mk4/DiFX fourfit 3.14 rev 1712

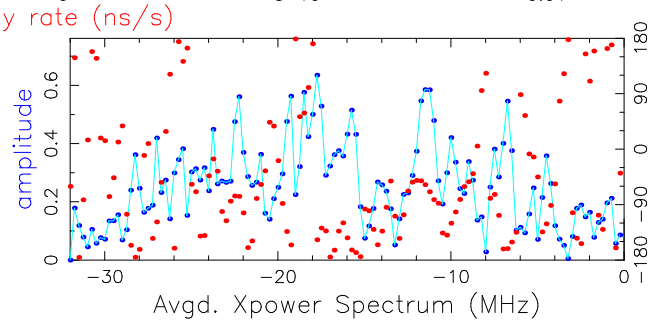
NGC1052.zqlqmm, No0205, bl

VLBA_BR - VLBA_LA, fgroup Q, pol RL

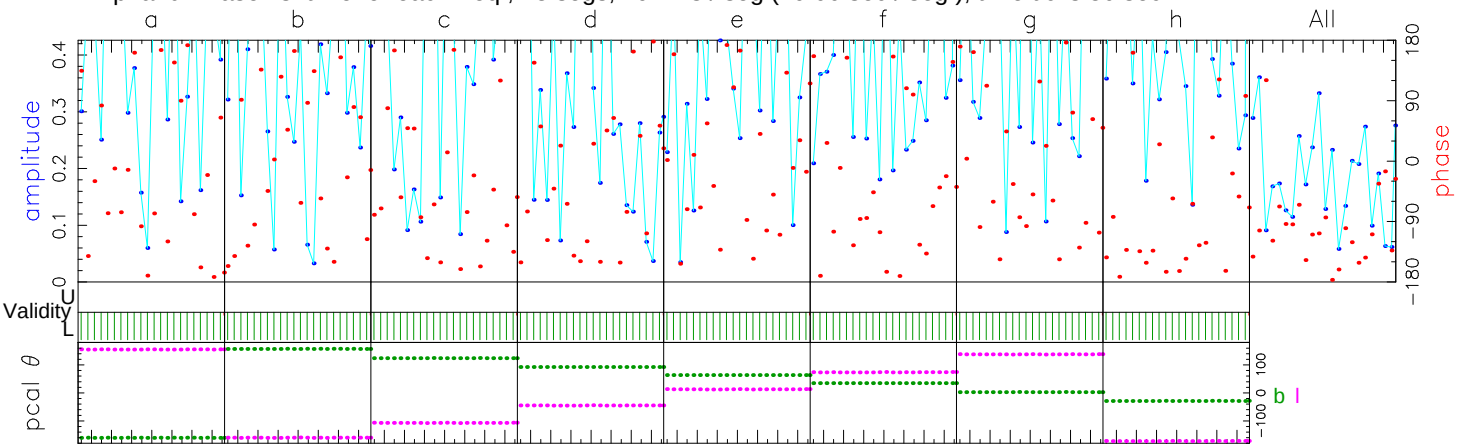


Fringe quality	0
SNR	5.6
Int time	419.986
Amp	0.142
Phase	-113.3
PFD	6.1e-01
Delays (us)	
SBD	-0.170484
MBD	-0.011554
Fringe rate (Hz)	0.013723
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120319
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	-119.2	-155.3	-96.5	-104.8	-98.1	-106.6	-94.3	-129.5	Phase	-113.3
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	Ampl.	0.1
	191.1	213.0	105.4	80.4	244.5	35.2	43.7	108.2	Sbd box	107.2
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
l	904.0	904.1	902.7	903.2	903.2	902.1	904.1	903.0	PC L delays (ns)	
b:l	-160:155	157:-160	124:-107	92:-45	64:13	35:74	3:138	-29:-172	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
l	10	10	10	10	10	10	10	11		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
l	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.93031673584E+03	Apriori delay (usec)	-4.93030518228E+03	Resid mbdelay (usec)	-1.15536E-02	+/-	3.9E-04
Sband delay (usec)	-4.93047566678E+03	Apriori clock (usec)	-1.0289764E-01	Resid sbdelay (usec)	-1.70484E-01	+/-	3.1E-03
Phase delay (usec)	-4.93030518960E+03	Apriori clockrate (us/s)	1.1323993E-07	Resid phdelay (usec)	-7.31537E-06	+/-	1.3E-06
Delay rate (us/s)	1.17321152726E-01	Apriori rate (us/s)	1.17320833764E-01	Resid rate (us/s)	3.18961E-07	+/-	5.4E-09
Total phase (deg)	-171.8	Apriori accel (us/s/s)	2.36454051505E-05	Resid phase (deg)	-113.3	+/-	20.4

	RMS	Theor.	Amplitude	0.142 +/- 0.025
ph/seg (deg)	47.7	48.8	Search (1024X32)	0.140
amp/seg (%)	66.2	85.2	Interp.	0.000
ph/frq (deg)	22.6	28.8	Inc. seg. avg.	0.133
amp/frq (%)	37.8	50.2	Inc. frq. avg.	0.133

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

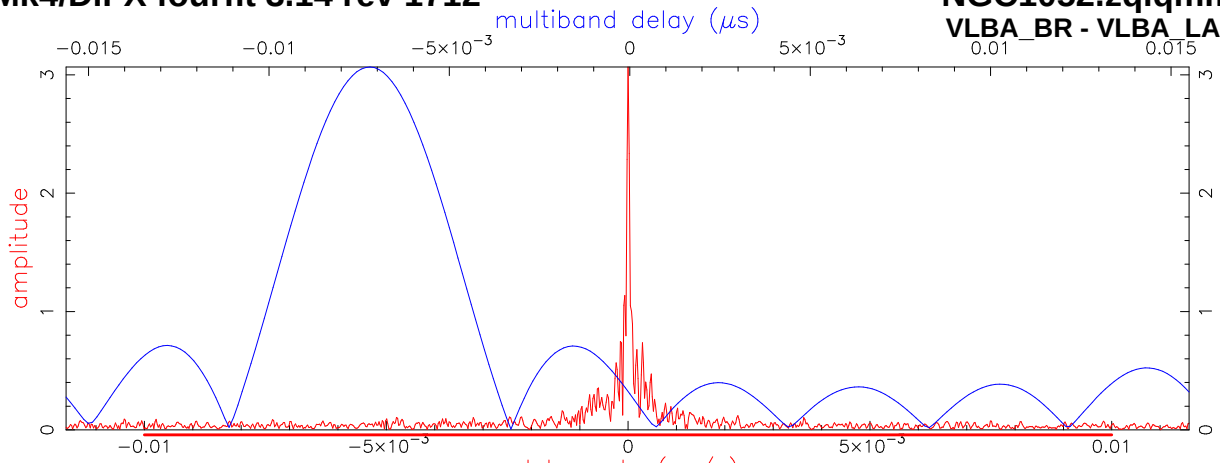
b: az 137.7 el 24.4 pa -27.0 l: az 147.0 el 40.2 pa -25.7 u,v (fr/asec) -323.975 566.326 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bl..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bl.Q.12.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

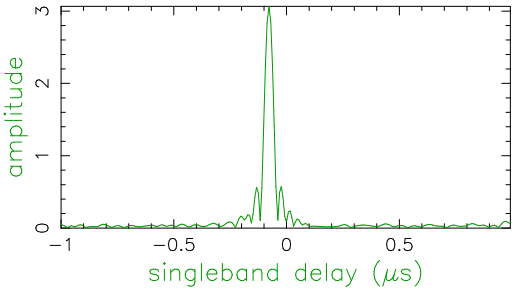
NGC1052.zqlqmm, No0205, bl

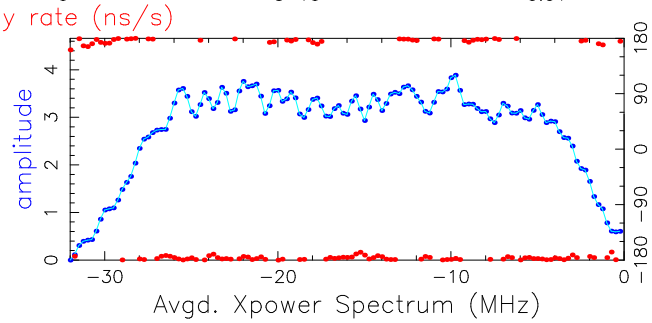
VLBA_BR - VLBA_LA, fgroup Q, pol LL



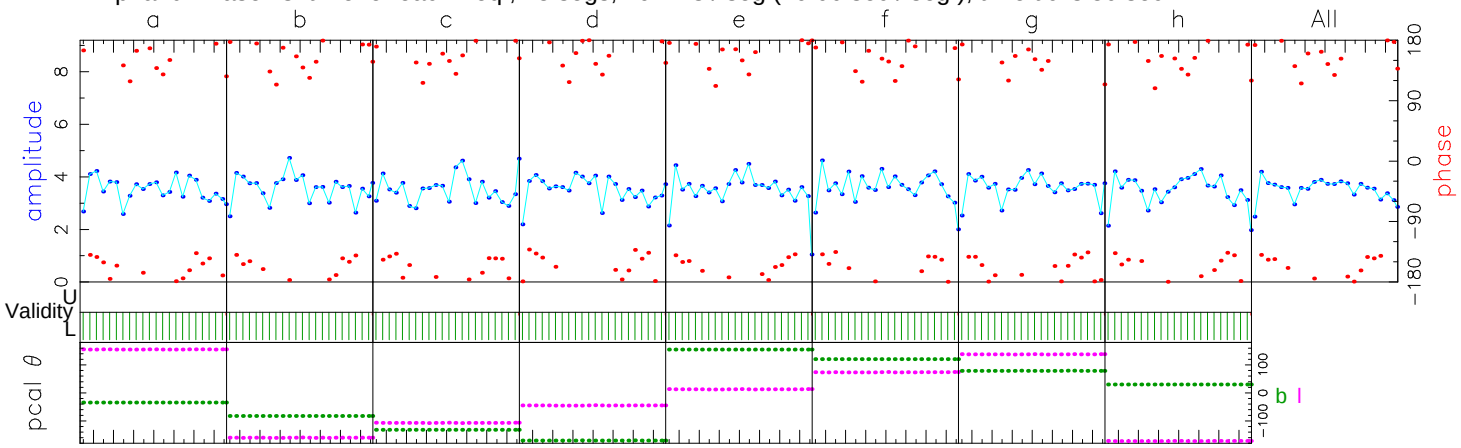
Fringe quality 7

SNR	121.5
Int time	419.986
Amp	3.067
Phase	-178.9
PFD	0.0e+00
Delays (us)	
SBD	-0.077962
MBD	-0.007211
Fringe rate (Hz)	-0.000441
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120317 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-177.1	178.2	-179.7	-175.7	-178.9	178.7	-176.7	-179.7	Phase	-178.9
	3.1	3.1	3.0	3.0	3.1	3.1	3.1	3.0	Ampl.	3.1
	119.0	118.9	119.0	119.0	119.1	119.1	119.1	118.9	Sbd box	119.0
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
l	904.0	904.1	902.7	903.2	903.2	902.1	904.1	903.0	PC L delays (ns)	
b:l	-35:155	-83:-160	-132:-107	-170:-45	155:13	121:74	79:138	30:-172	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
l	10	10	10	10	10	10	10	11		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
l	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.93031239335E+03	Apriori delay (usec)	-4.93030518228E+03	Resid mbdelay (usec)	-7.21106E-03	+/-	1.8E-05
Sband delay (usec)	-4.93038314428E+03	Apriori clock (usec)	-1.0289764E-01	Resid sbdelay (usec)	-7.79620E-02	+/-	1.4E-04
Phase delay (usec)	-4.93030519383E+03	Apriori clockrate (us/s)	1.1323993E-07	Resid phdelay (usec)	-1.15480E-05	+/-	6.1E-08
Delay rate (us/s)	1.17320823526E-01	Apriori rate (us/s)	1.17320833764E-01	Resid rate (us/s)	-1.02385E-08	+/-	2.5E-10
Total phase (deg)	-237.4	Apriori accel (us/s/s)	2.36454051505E-05	Resid phase (deg)	-178.9	+/-	0.9

	RMS	Theor.	Amplitude	3.067 +/- 0.025
ph/seg (deg)	30.2	2.3	Search (1024X32)	2.859
amp/seg (%)	19.4	3.9	Interp.	0.000
ph/frq (deg)	2.4	1.3	Inc. seg. avg.	3.539
amp/frq (%)	1.4	2.3	Inc. frq. avg.	3.068

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

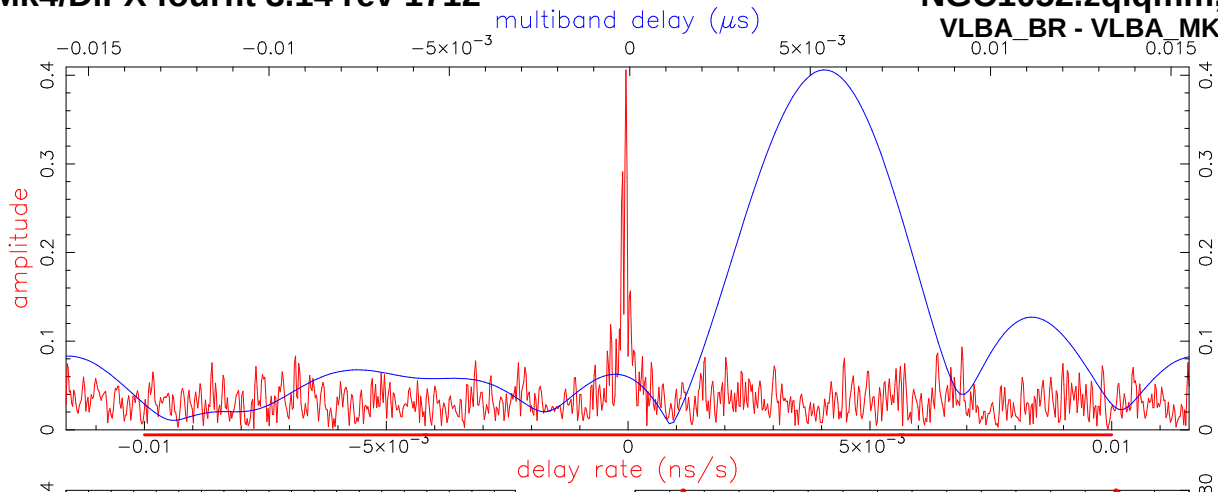
b: az 137.7 el 24.4 pa -27.0 l: az 147.0 el 40.2 pa -25.7 u,v (fr/asec) -323.975 566.326 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bl..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bl.Q.9.zqlqmm

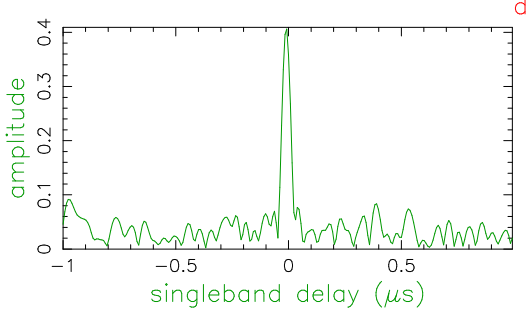
Mk4/DiFX fourfit 3.14 rev 1712

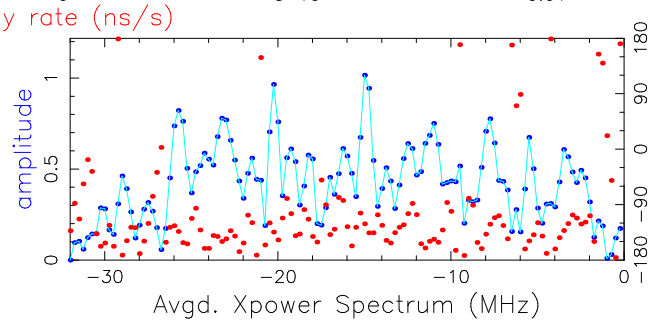
NGC1052.zqlqmm, No0205, bm

VLBA_BR - VLBA_MK, fgroup Q, pol LL

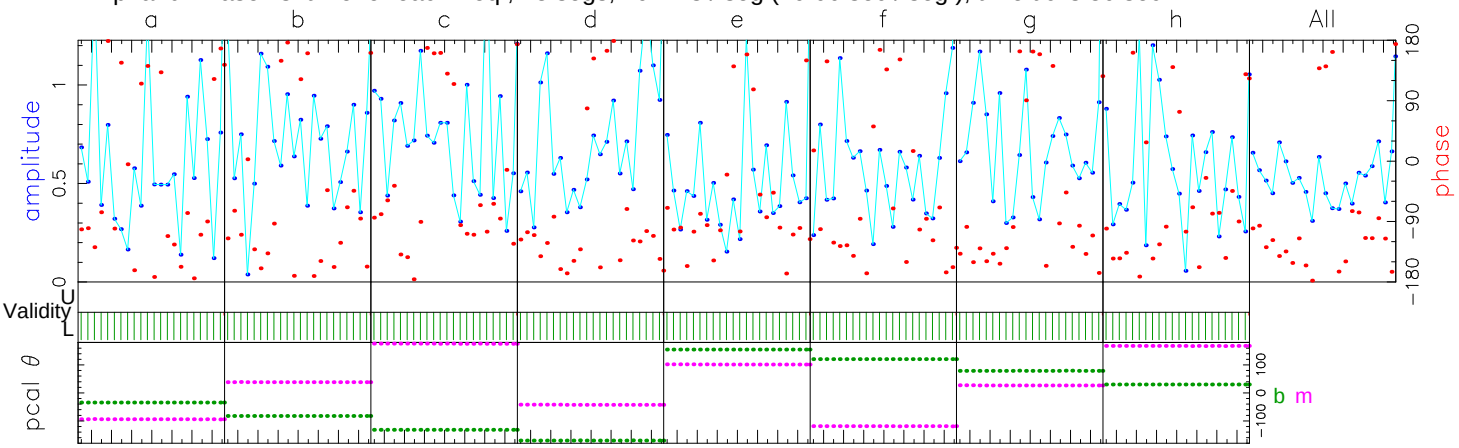


Fringe quality	9
SNR	16.2
Int time	419.991
Amp	0.409
Phase	-133.2
PFD	0.0e+00
Delays (us)	
SBD	-0.010395
MBD	0.005374
Fringe rate (Hz)	-0.002079
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120320 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Phase	-133.2
	-144.3	-136.1	-116.0	-135.5	-122.7	-137.2	-145.4	-123.3	Ampl.	0.4
	0.4	0.5	0.4	0.6	0.3	0.4	0.5	0.3	Sbd box	127.7
	127.9	127.4	127.9	127.9	127.2	128.8	127.7	126.6	APs used	
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	PC L delays (ns)	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
m	208.8	209.5	208.7	208.8	207.8	207.3	208.5	208.3	PC phase	
b:m	-35:-94	-83:38	-132:176	-170:-42	155:102	121:-119	79:27	30:168	Manl PC	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b	17	17	18	19	18	17	17	17		
m	32	33	30	30	27	29	29	29		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
m	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	4.20323913001E+03	Apriori delay (usec)	4.20323375571E+03	Resid mbdelay (usec)	5.37430E-03	+/-	1.3E-04
Sband delay (usec)	4.20322336021E+03	Apriori clock (usec)	-5.4732695E+00	Resid sbdelay (usec)	-1.03955E-02	+/-	1.1E-03
Phase delay (usec)	4.20323374711E+03	Apriori clockrate (us/s)	7.5366905E-08	Resid phdelay (usec)	-8.60084E-06	+/-	4.6E-07
Delay rate (us/s)	-7.61044613444E-01	Apriori rate (us/s)	-7.61044565126E-01	Resid rate (us/s)	-4.83175E-08	+/-	1.9E-09
Total phase (deg)	-95.2	Apriori accel (us/s/s)	-2.88898067821E-05	Resid phase (deg)	-133.2	+/-	7.1

	RMS	Theor.	Amplitude	0.409 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	41.4	16.9	Search (1024X32)	0.395	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	40.7	29.6	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	11.6	10.0	Inc. seg. avg.	0.504	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	19.8	17.4	Inc. frq. avg.	0.406	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

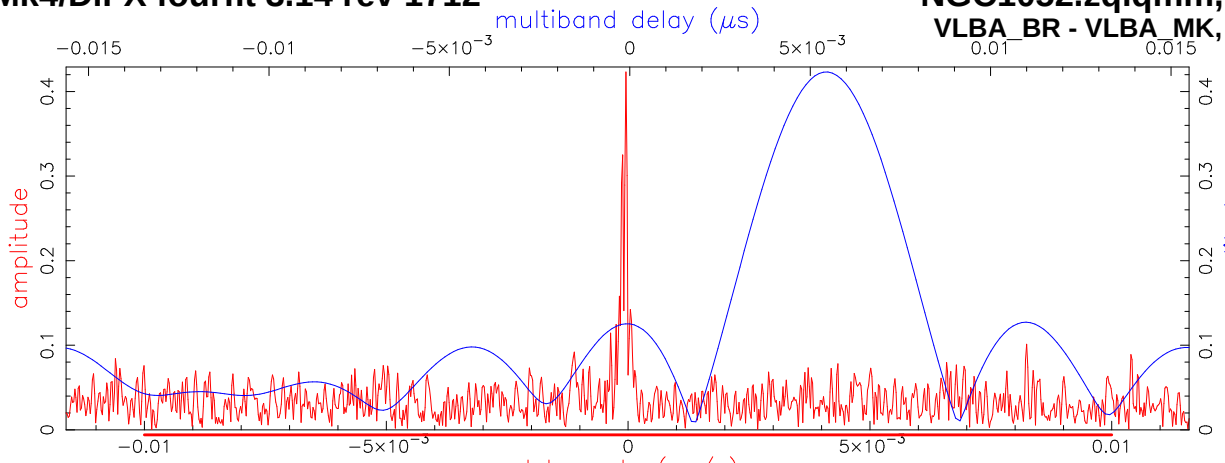
b: az 137.7 el 24.4 pa -27.0 m: az 103.4 el 12.0 pa -67.5 u,v (fr/asec) 2177.763 1946.544 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bm..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bm.Q.13.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

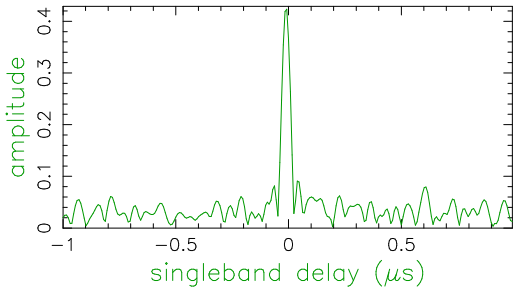
NGC1052.zqlqmm, No0205, bm

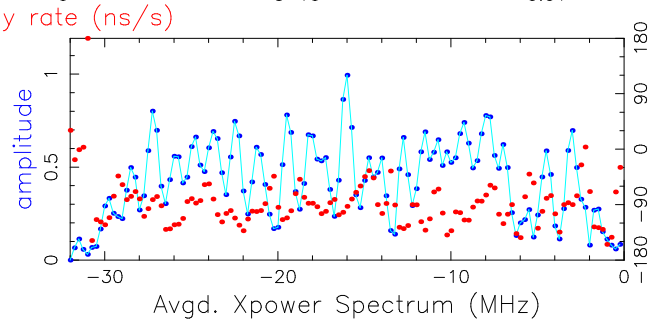
VLBA_BR - VLBA_MK, fgroup Q, pol RR



Fringe quality 9

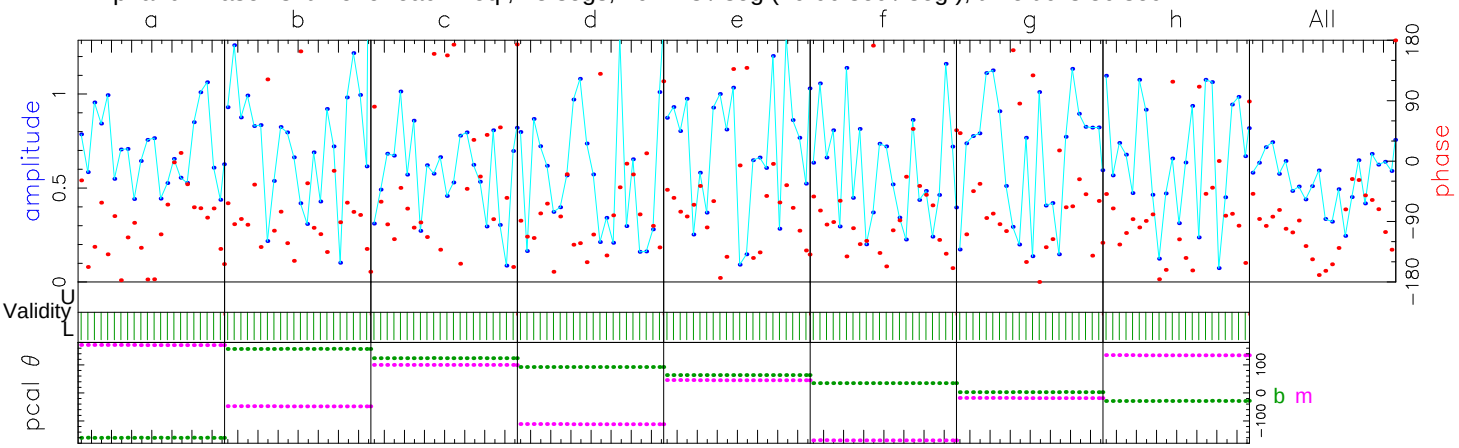
SNR 17.0
Int time 419.991
Amp 0.429
Phase -93.7
PFD 0.0e+00
Delays (us)
SBD -0.011166
MBD 0.005417
Fringe rate (Hz)
-0.002128
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120321
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-97.5	-93.0	-96.6	-94.5	-80.4	-106.9	-85.8	-96.2	Phase	-93.7
	0.5	0.6	0.3	0.4	0.4	0.4	0.5	0.4	Ampl.	0.4
	127.8	127.6	126.7	127.2	128.4	128.1	127.5	127.2	Sbd box	127.6
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
m	192.3	192.7	192.6	191.4	192.1	190.8	191.5	191.3	PC R delays (ns)	
b:m	-160:171	157:-48	124:100	92:-112	64:45	35:-169	3:-18	-29:134	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
m	27	27	27	27	26	26	26	26		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
m	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	4.20323917251E+03	Apriori delay (usec)	4.20323375571E+03	Resid mbdelay (usec)	5.41680E-03	+/-	1.3E-04
Sband delay (usec)	4.20322258971E+03	Apriori clock (usec)	-5.4732695E+00	Resid sbdelay (usec)	-1.11660E-02	+/-	1.0E-03
Phase delay (usec)	4.20323374966E+03	Apriori clockrate (us/s)	7.5366905E-08	Resid phdelay (usec)	-6.04656E-06	+/-	4.4E-07
Delay rate (us/s)	-7.61044614584E-01	Apriori rate (us/s)	-7.61044565126E-01	Resid rate (us/s)	-4.94579E-08	+/-	1.8E-09
Total phase (deg)	-55.6	Apriori accel (us/s/s)	-2.88898067821E-05	Resid phase (deg)	-93.7	+/-	6.7

	RMS	Theor.							
			Amplitude	0.429 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5				
ph/seg (deg)	41.2	16.2	Search (1024X32)	0.411	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000
amp/seg (%)	40.0	28.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	8.6	9.5	Inc. seg. avg.	0.521	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.010	0.010
amp/frq (%)	19.2	16.6	Inc. frq. avg.	0.421	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

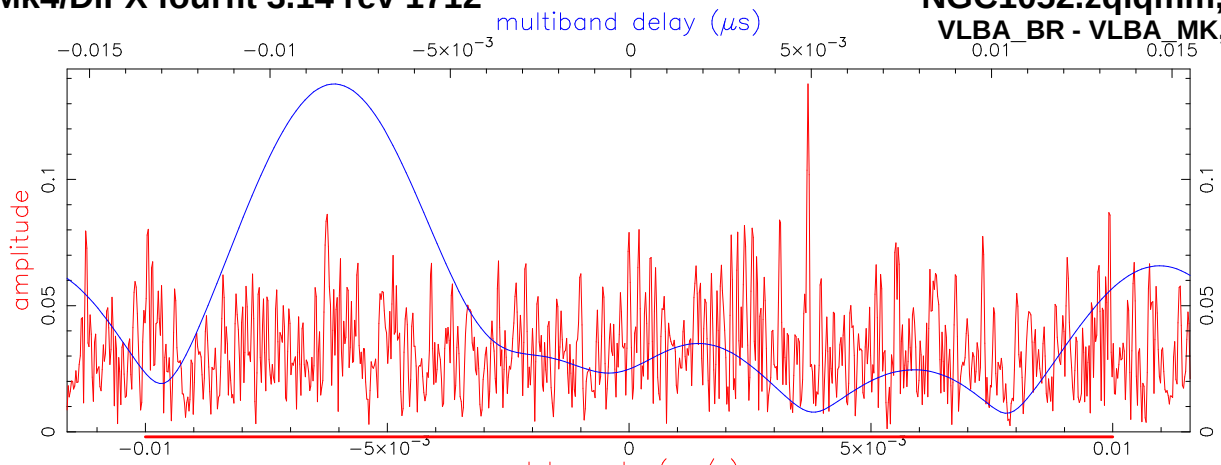
b: az 137.7 el 24.4 pa -27.0 m: az 103.4 el 12.0 pa -67.5 u,v (fr/asec) 2177.763 1946.544 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bm..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bm.Q.14.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

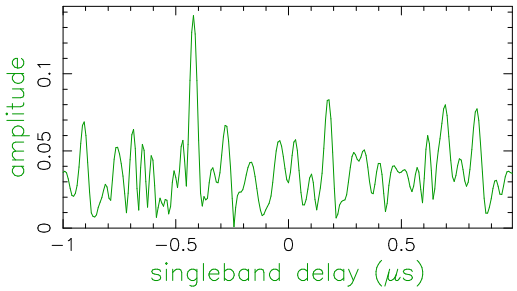
NGC1052.zqlqmm, No0205, bm

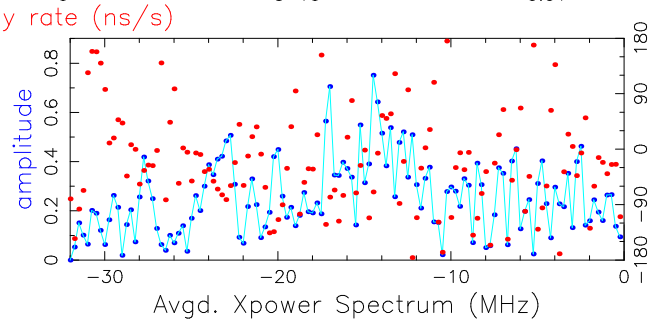
VLBA_BR - VLBA_MK, fgroup Q, pol LR



Fringe quality 0

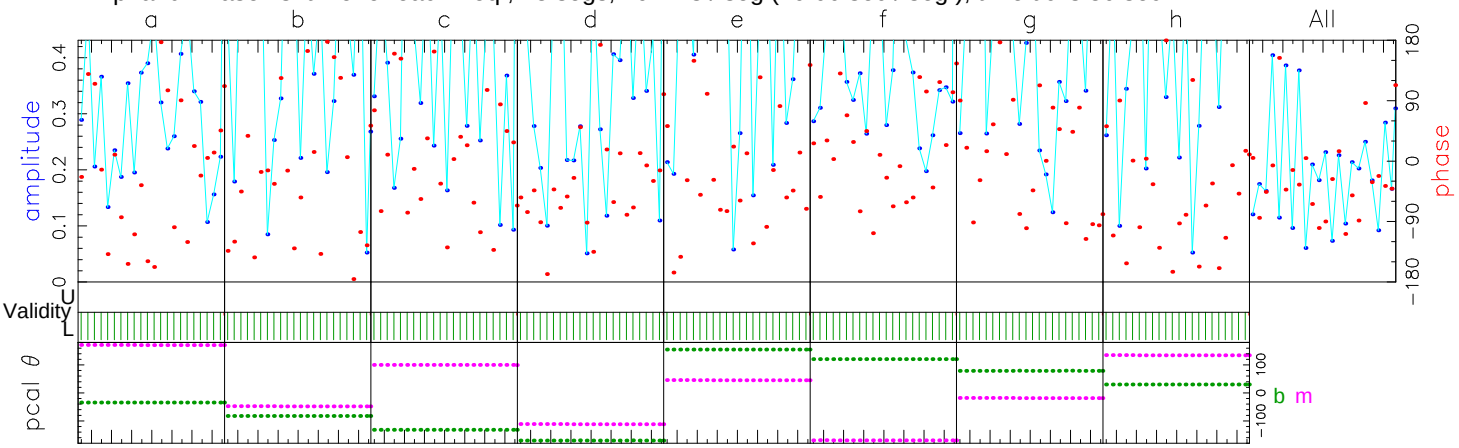
SNR 5.5
Int time 419.991
Amp 0.144
Phase -39.6
PFD 9.1e-01
Delays (us)
SBD -0.422123
MBD -0.008239
Fringe rate (Hz)
0.159575
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120322
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-105.2	-69.4	-21.3	-50.5	-39.4	5.0	-20.6	-72.8	Phase	-39.6
	0.0	0.1	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.1
	132.0	45.7	201.9	137.8	94.2	206.1	151.7	73.4	Sbd box	75.0
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
m	192.3	192.7	192.6	191.4	192.1	190.8	191.5	191.3	PC R delays (ns)	
b:m	-35:171	-83:-48	-132:100	-170:-112	155:45	121:-169	79:-18	30:134	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
m	27	27	27	27	26	26	26	26		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
m	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	4.20322551663E+03	Apriori delay (usec)	4.20323375571E+03	Resid mbdelay (usec)	-8.23908E-03	+/-	4.0E-04
Sband delay (usec)	4.20281163271E+03	Apriori clock (usec)	-5.4732695E+00	Resid sbdelay (usec)	-4.22123E-01	+/-	3.2E-03
Phase delay (usec)	4.20323375315E+03	Apriori clockrate (us/s)	7.5366905E-08	Resid phdelay (usec)	-2.55716E-06	+/-	1.4E-06
Delay rate (us/s)	-7.61040856141E-01	Apriori rate (us/s)	-7.61044565126E-01	Resid rate (us/s)	3.70899E-06	+/-	5.6E-09
Total phase (deg)	-1.6	Apriori accel (us/s/s)	-2.88898067821E-05	Resid phase (deg)	-39.6	+/-	21.0

	RMS	Theor.						
			Amplitude	0.144 +/- 0.026	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	56.8	50.3	Search (1024X32)	0.131	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	81.9	87.8	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	38.9	29.7	Inc. seg. avg.	0.148	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	51.0	51.8	Inc. frq. avg.	0.142	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

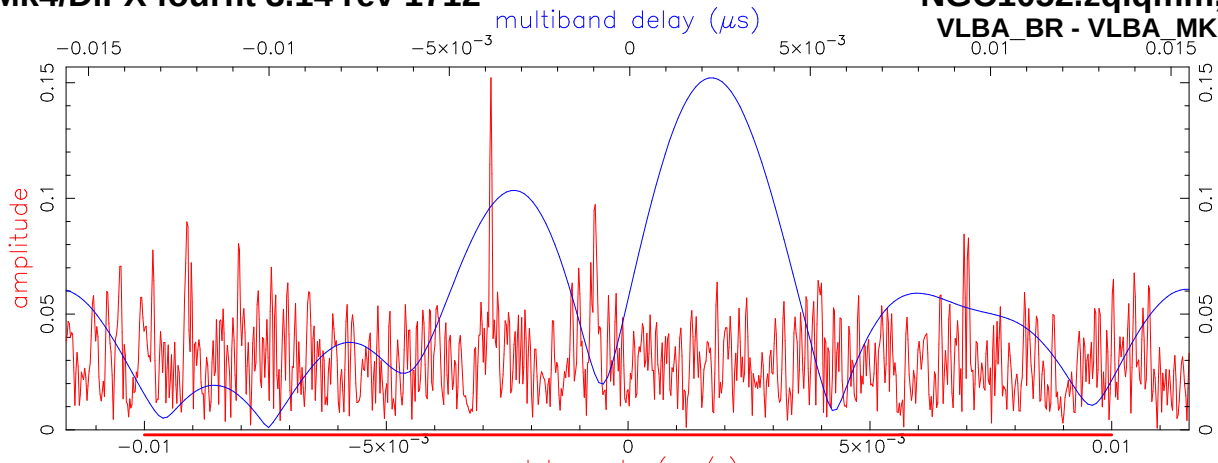
b: az 137.7 el 24.4 pa -27.0 m: az 103.4 el 12.0 pa -67.5 u,v (fr/asec) 2177.763 1946.544 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bm..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bm.Q.15.zqlqmm

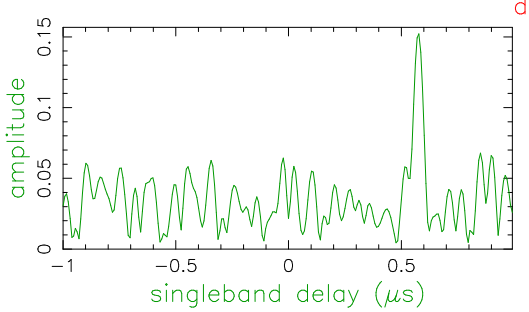
Mk4/DiFX fourfit 3.14 rev 1712

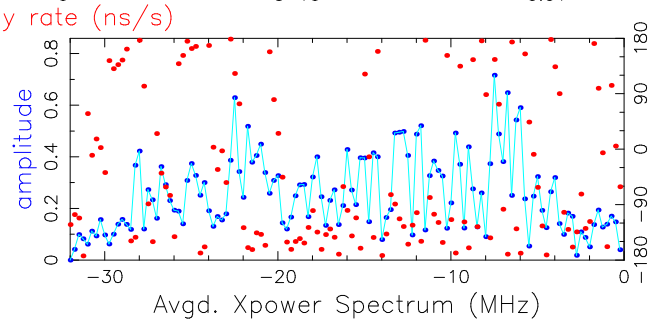
NGC1052.zqlqmm, No0205, bm

VLBA_BR - VLBA_MK, fgroup Q, pol RL

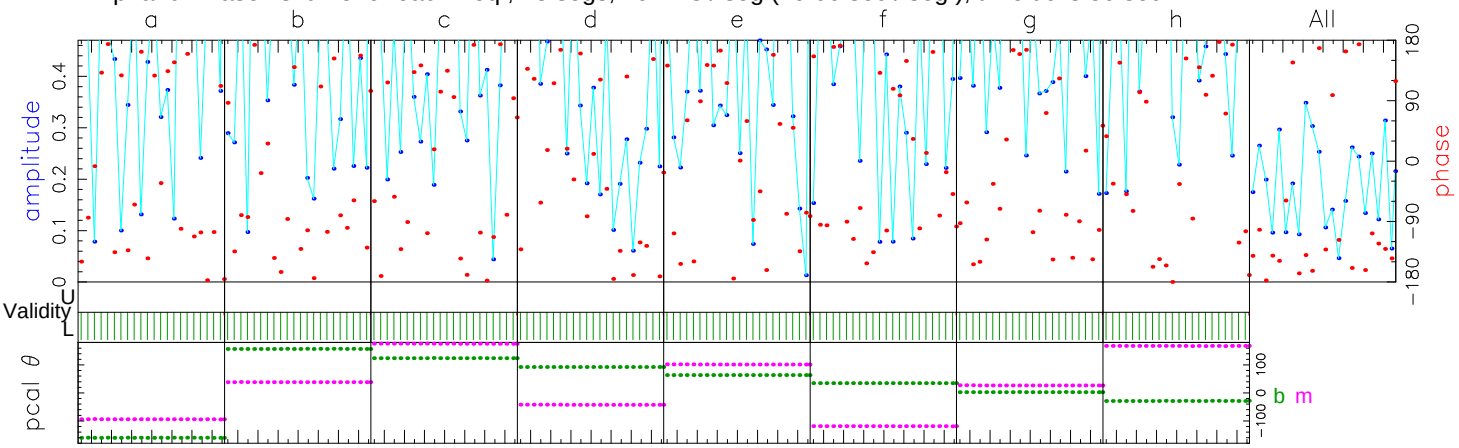


Fringe quality	0
SNR	6.1
Int time	419.991
Amp	0.157
Phase	-153.6
PFD	7.3e-02
Delays (us)	
SBD	0.575565
MBD	0.002242
Fringe rate (Hz)	-0.122080
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120323
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	-148.4	-138.8	-174.2	160.9	141.0	-120.8	-121.0	-172.4	Phase	-153.6
	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	Ampl.	0.2
	32.9	131.9	109.7	98.9	82.8	64.1	197.2	237.8	Sbd box	202.7
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
m	208.8	209.5	208.7	208.8	207.8	207.3	208.5	208.3	PC L delays (ns)	
b:m	-160:-94	157:38	124:176	92:-42	64:102	35:-119	3:27	-29:168	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
m	32	33	30	30	27	29	29	29		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
m	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	4.20323599793E+03	Apriori delay (usec)	4.20323375571E+03	Resid mbdelay (usec)	2.24222E-03	+/-	3.6E-04
Sband delay (usec)	4.20380932071E+03	Apriori clock (usec)	-5.4732695E+00	Resid sbdelay (usec)	5.75565E-01	+/-	2.8E-03
Phase delay (usec)	4.20323374579E+03	Apriori clockrate (us/s)	7.5366905E-08	Resid phdelay (usec)	-9.91645E-06	+/-	1.2E-06
Delay rate (us/s)	-7.61047402620E-01	Apriori rate (us/s)	-7.61044565126E-01	Resid rate (us/s)	-2.83749E-06	+/-	5.0E-09
Total phase (deg)	-115.5	Apriori accel (us/s/s)	-2.88898067821E-05	Resid phase (deg)	-153.6	+/-	18.9

	RMS	Theor.	Amplitude	0.157 +/- 0.026
ph/seg (deg)	42.0	45.3	Search (1024X32)	0.150
amp/seg (%)	61.7	79.1	Interp.	0.000
ph/frq (deg)	39.8	26.7	Inc. seg. avg.	0.148
amp/frq (%)	35.5	46.7	Inc. frq. avg.	0.162

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

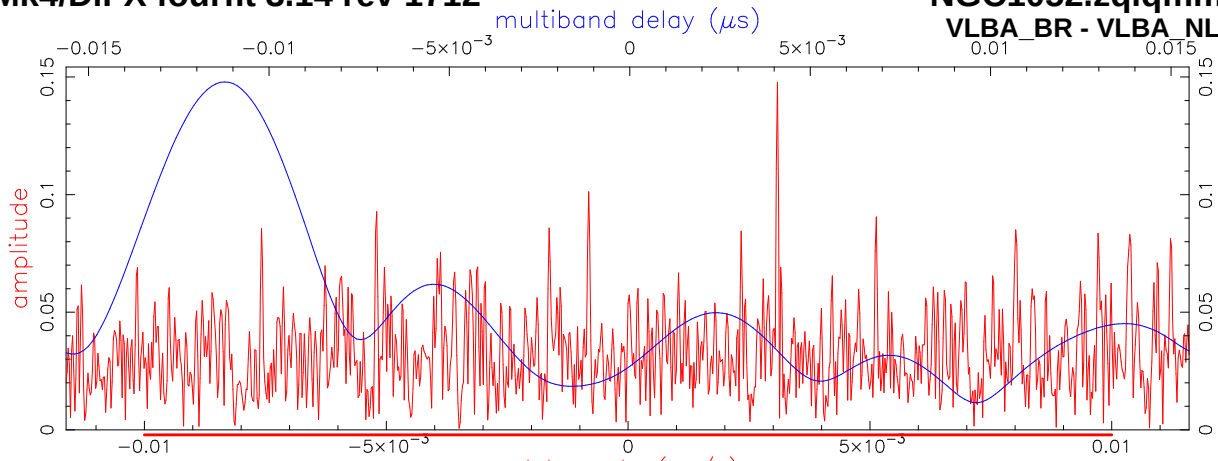
b: az 137.7 el 24.4 pa -27.0 m: az 103.4 el 12.0 pa -67.5 u,v (fr/asec) 2177.763 1946.544 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bm..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bm.Q.16.zqlqmm

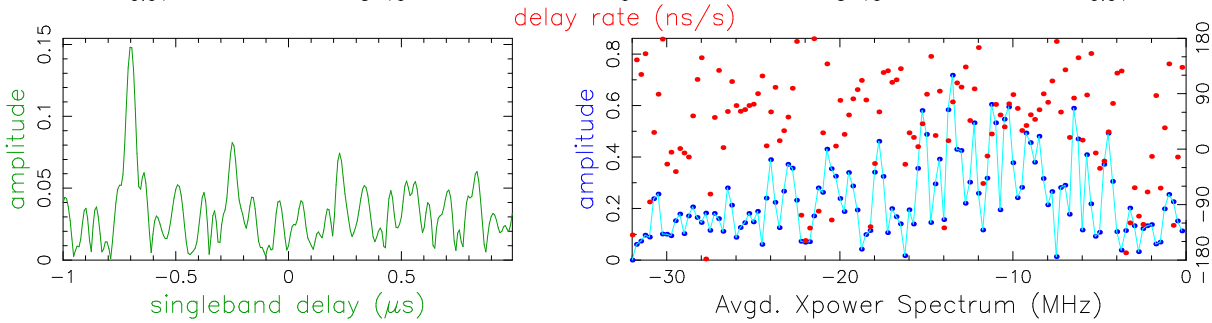
Mk4/DiFX fourfit 3.14 rev 1712

NGC1052.zqlqmm, No0205, bn

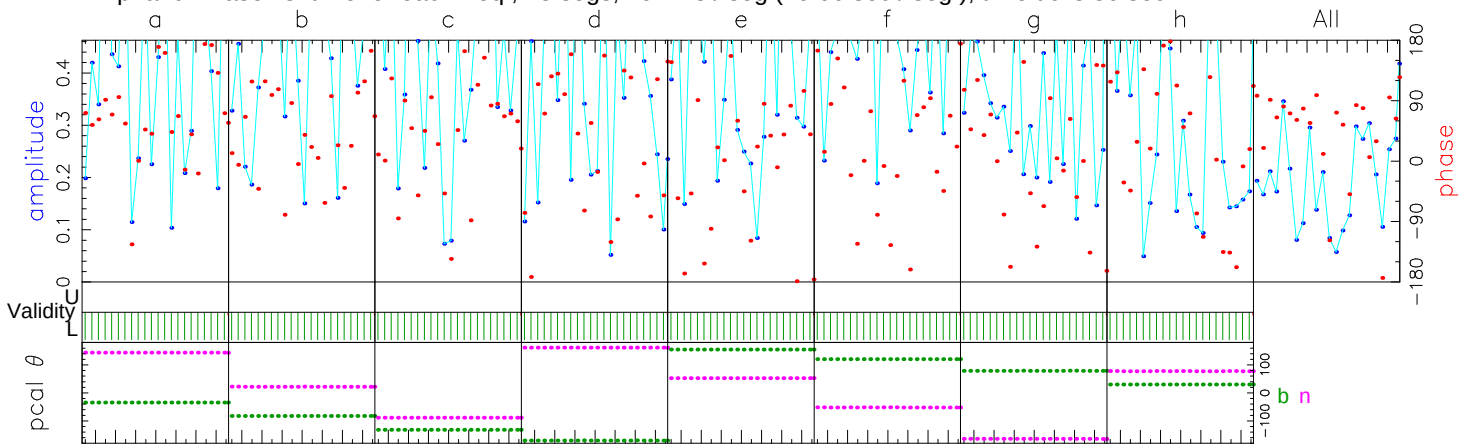
VLBA_BR - VLBA_NL, fgroup Q, pol LL



Fringe quality	0
SNR	5.9
Int time	419.987
Amp	0.154
Phase	64.6
PFD	1.5e-01
Delays (us)	
SBD	-0.699373
MBD	-0.011098
Fringe rate (Hz)	0.133078
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120324 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"



Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	76.3	47.1	68.1	108.8	45.7	53.0	38.6	90.5	Phase	64.6
	0.3	0.2	0.3	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	38.9	27.6	39.7	187.9	83.2	226.6	211.4	197.2	Sbd box	39.5
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
n	572.1	571.7	569.6	570.0	571.5	572.1	571.0	570.1	PC L delays (ns)	
b:n	-35:144	-83:22	-132:-89	-170:162	155:53	121:-52	79:-164	30:78	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
n	14	13	13	13	12	12	13	13		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
n	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.57700158939E+03	Apriori delay (usec)	-4.57699049123E+03	Resid mbdelay (usec)	-1.10982E-02	+/-	3.7E-04
Sband delay (usec)	-4.57768986423E+03	Apriori clock (usec)	-9.7583008E+00	Resid sbdelay (usec)	-6.99373E-01	+/-	2.9E-03
Phase delay (usec)	-4.57699048706E+03	Apriori clockrate (us/s)	-2.8431971E-07	Resid phdelay (usec)	4.17223E-06	+/-	1.2E-06
Delay rate (us/s)	4.38857009688E-01	Apriori rate (us/s)	4.38853916572E-01	Resid rate (us/s)	3.09312E-06	+/-	5.1E-09
Total phase (deg)	-257.5	Apriori accel (us/s/s)	2.30231591491E-05	Resid phase (deg)	64.6	+/-	19.3

	RMS	Theor.	Amplitude	0.154 +/- 0.026	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	58.0	46.3	Search (1024X32)	0.145	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	63.0	80.8	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	26.6	27.3	Inc. seg. avg.	0.150	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	49.3	47.6	Inc. frq. avg.	0.145	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

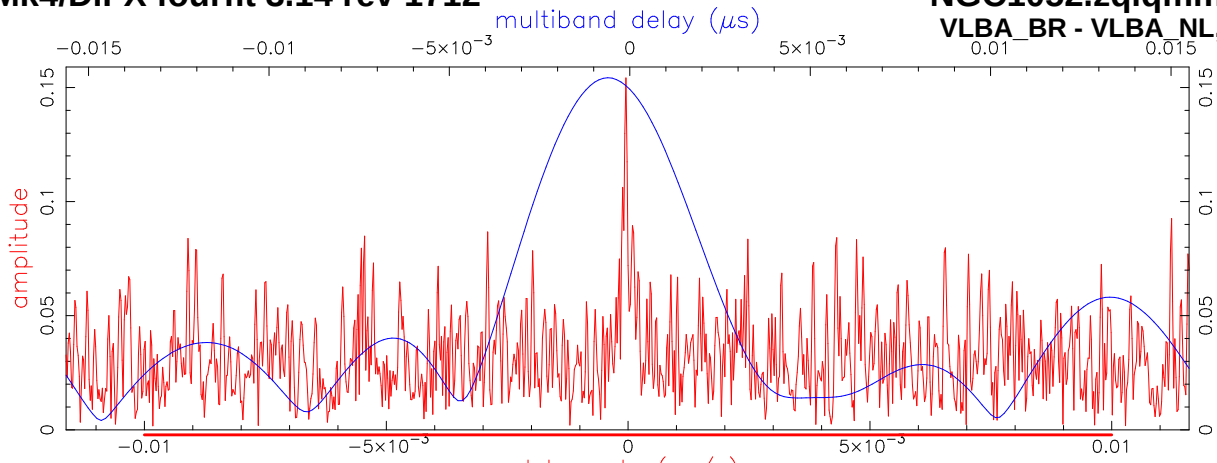
b: az 137.7 el 24.4 pa -27.0 n: az 166.9 el 39.2 pa -9.4 u,v (fr/asec) -1253.089 210.008 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bn..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bn.Q.17.zqlqmm

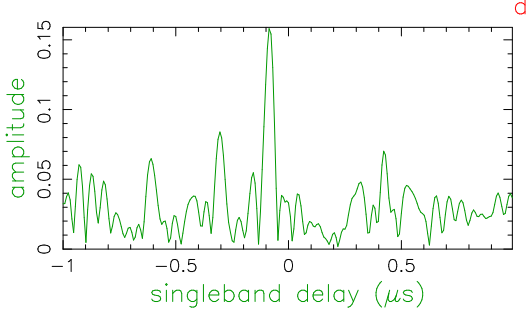
Mk4/DiFX fourfit 3.14 rev 1712

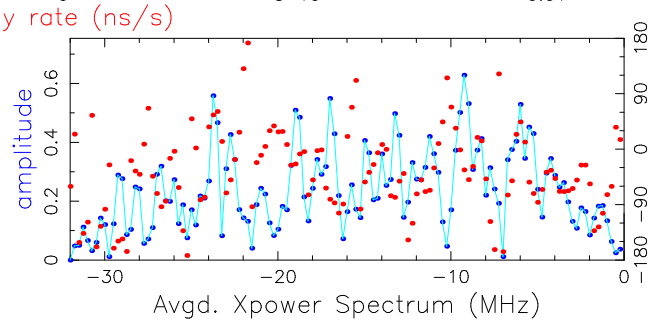
NGC1052.zqlqmm, No0205, bn

VLBA_BR - VLBA_NL, fgroup Q, pol RR

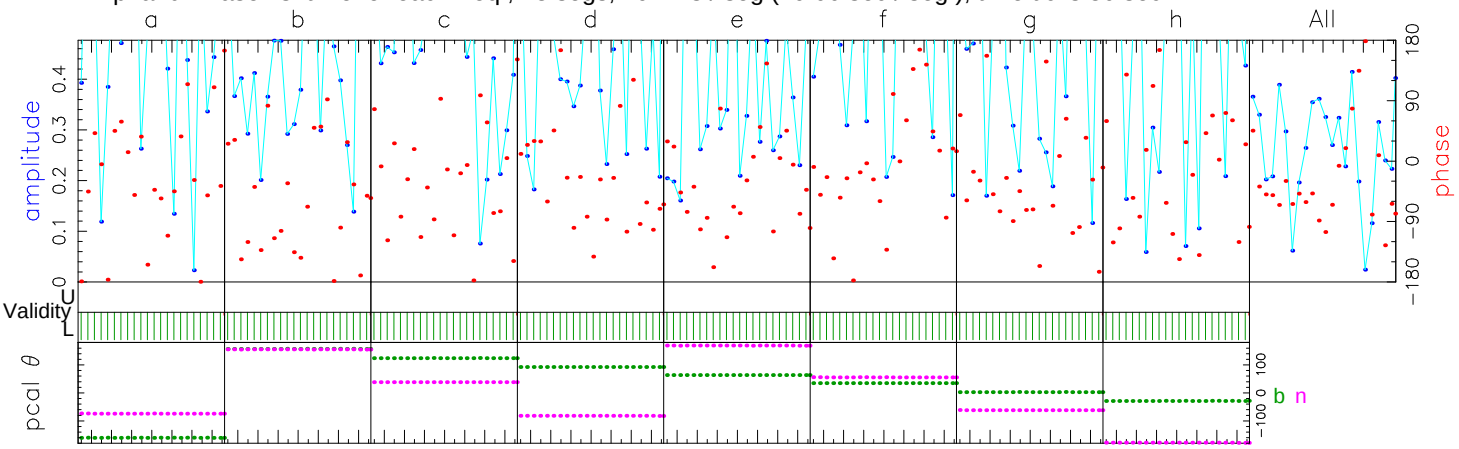


Fringe quality	0
SNR	6.3
Int time	419.987
Amp	0.159
Phase	-42.3
PFD	1.7e-02
Delays (us)	
SBD	-0.083468
MBD	-0.000523
Fringe rate (Hz)	-0.001627
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120325 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-13.5	-86.6	-41.6	-45.5	-47.6	-18.1	-59.9	-27.7	Phase	-42.3
	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.1
	175.7	183.9	115.3	28.6	48.2	247.8	119.8	168.7	Sbd box	118.3
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
n	557.7	557.3	555.1	554.6	556.3	557.1	555.7	554.3	PC R delays (ns)	
b:n	-160:-74	157:155	124:38	92:-82	64:169	35:56	3:-62	-29:-178	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
n	16	15	15	15	14	14	15	14		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
n	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.57699101431E+03	Apriori delay (usec)	-4.57699049123E+03	Resid mbdelay (usec)	-5.23073E-04	+/-	3.4E-04
Sband delay (usec)	-4.57707395923E+03	Apriori clock (usec)	-9.7583008E+00	Resid sbdelay (usec)	-8.34680E-02	+/-	2.7E-03
Phase delay (usec)	-4.57699049396E+03	Apriori clockrate (us/s)	-2.8431971E-07	Resid phdelay (usec)	-2.73051E-06	+/-	1.2E-06
Delay rate (us/s)	4.38853878750E-01	Apriori rate (us/s)	4.38853916572E-01	Resid rate (us/s)	-3.78219E-08	+/-	4.8E-09
Total phase (deg)	-4.4	Apriori accel (us/s/s)	2.30231591491E-05	Resid phase (deg)	-42.3	+/-	18.2

	RMS	Theor.	Amplitude	0.159 +/- 0.025
ph/seg (deg)	66.5	43.6	Search (1024X32)	0.152
amp/seg (%)	89.7	76.1	Interp.	0.000
ph/frq (deg)	25.6	25.7	Inc. seg. avg.	0.202
amp/frq (%)	30.6	44.9	Inc. frq. avg.	0.149

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

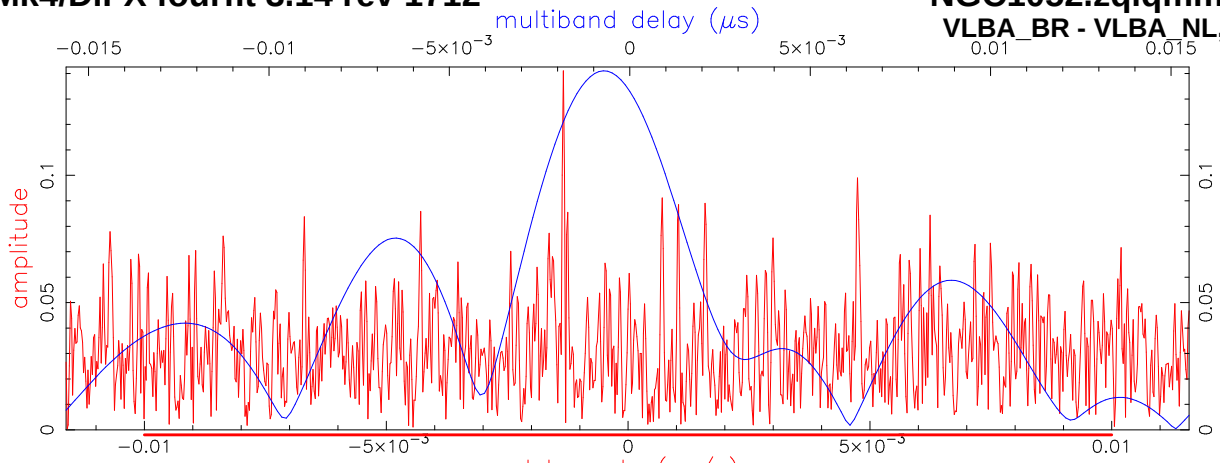
b: az 137.7 el 24.4 pa -27.0 n: az 166.9 el 39.2 pa -9.4 u,v (fr/asec) -1253.089 210.008 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bn..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bn.Q.18.zqlqmm

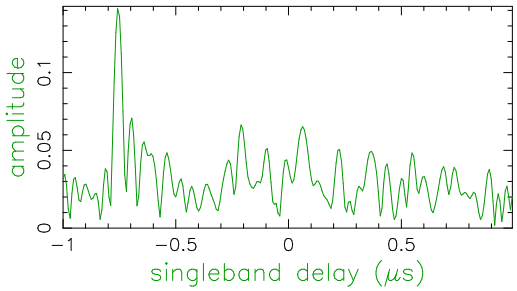
Mk4/DiFX fourfit 3.14 rev 1712

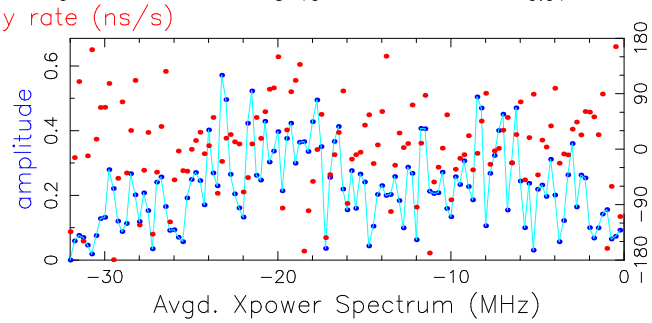
NGC1052.zqlqmm, No0205, bn

VLBA_BR - VLBA_NL, fgroup Q, pol LR

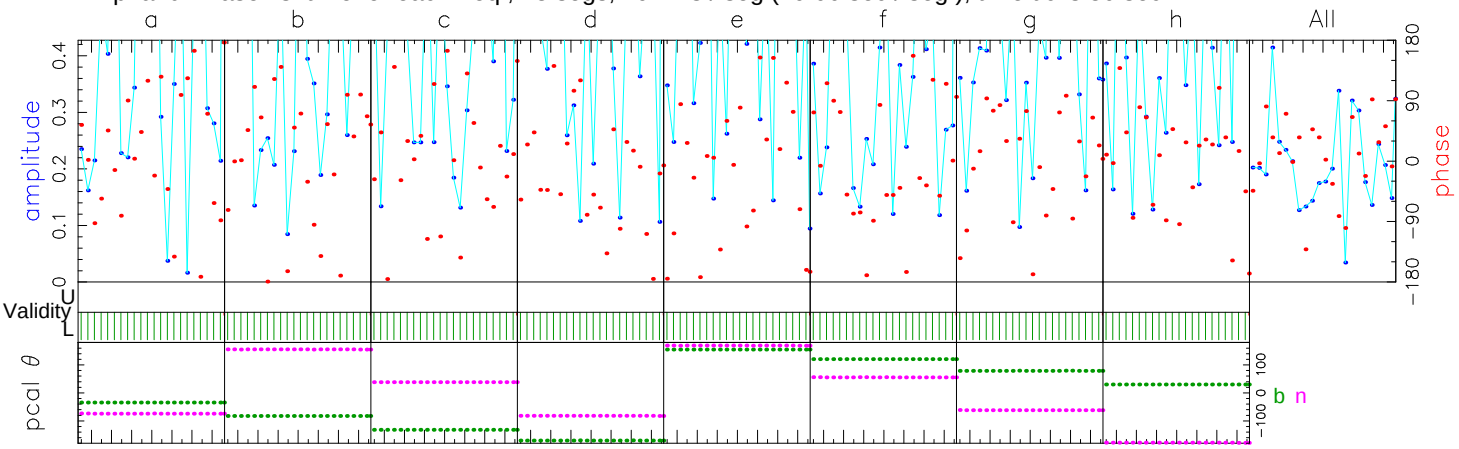


Fringe quality	0
SNR	5.6
Int time	419.987
Amp	0.143
Phase	17.9
PFD	6.3e-01
Delays (us)	
SBD	-0.755771
MBD	-0.000699
Fringe rate (Hz)	-0.057735
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120326 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	32.1	49.6	-12.2	-32.4	26.5	26.3	25.9	21.0	Phase	17.9
	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	12.7	174.9	179.2	33.9	171.1	244.1	17.5	32.9	Sbd box	32.3
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
n	557.7	557.3	555.1	554.6	556.3	557.1	555.7	554.3	PC R delays (ns)	
b:n	-35:-74	-83:155	-132:38	-170:-82	155:169	121:56	79:-62	30:-178	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
n	16	15	15	15	14	14	15	14		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
n	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.57699119048E+03	Apriori delay (usec)	-4.57699049123E+03	Resid mbdelay (usec)	-6.99247E-04	+/-	3.9E-04
Sband delay (usec)	-4.57774626173E+03	Apriori clock (usec)	-9.7583008E+00	Resid sbdelay (usec)	-7.55771E-01	+/-	3.1E-03
Phase delay (usec)	-4.57699049008E+03	Apriori clockrate (us/s)	-2.8431971E-07	Resid phdelay (usec)	1.15632E-06	+/-	1.3E-06
Delay rate (us/s)	4.38852574657E-01	Apriori rate (us/s)	4.38853916572E-01	Resid rate (us/s)	-1.34192E-06	+/-	5.4E-09
Total phase (deg)	-304.2	Apriori accel (us/s/s)	2.30231591491E-05	Resid phase (deg)	17.9	+/-	20.4

	RMS	Theor.	Amplitude	0.143 +/- 0.025	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	57.9	48.9	Search (1024X32)	0.136	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	73.9	85.3	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	28.5	28.8	Inc. seg. avg.	0.154	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	33.1	50.3	Inc. frq. avg.	0.139	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

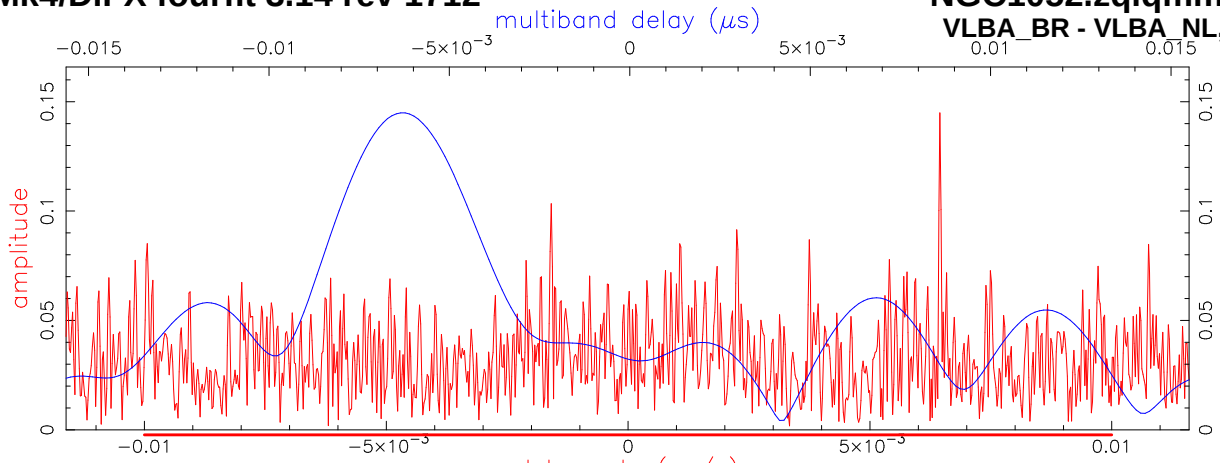
b: az 137.7 el 24.4 pa -27.0 n: az 166.9 el 39.2 pa -9.4 u,v (fr/asec) -1253.089 210.008 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bn..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bn.Q.19.zqlqmm

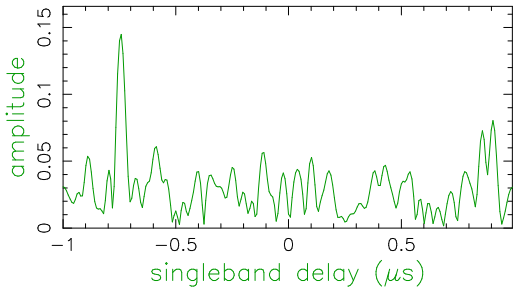
Mk4/DiFX fourfit 3.14 rev 1712

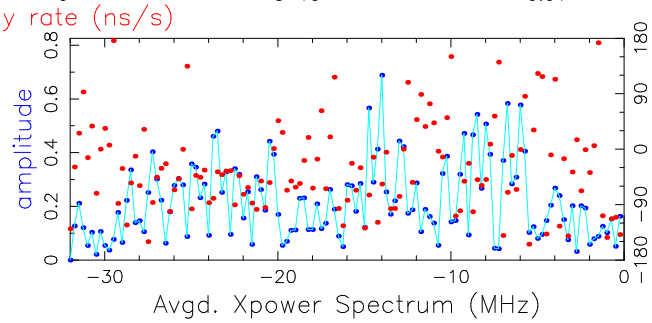
NGC1052.zqlqmm, No0205, bn

VLBA_BR - VLBA_NL, fgroup Q, pol RL

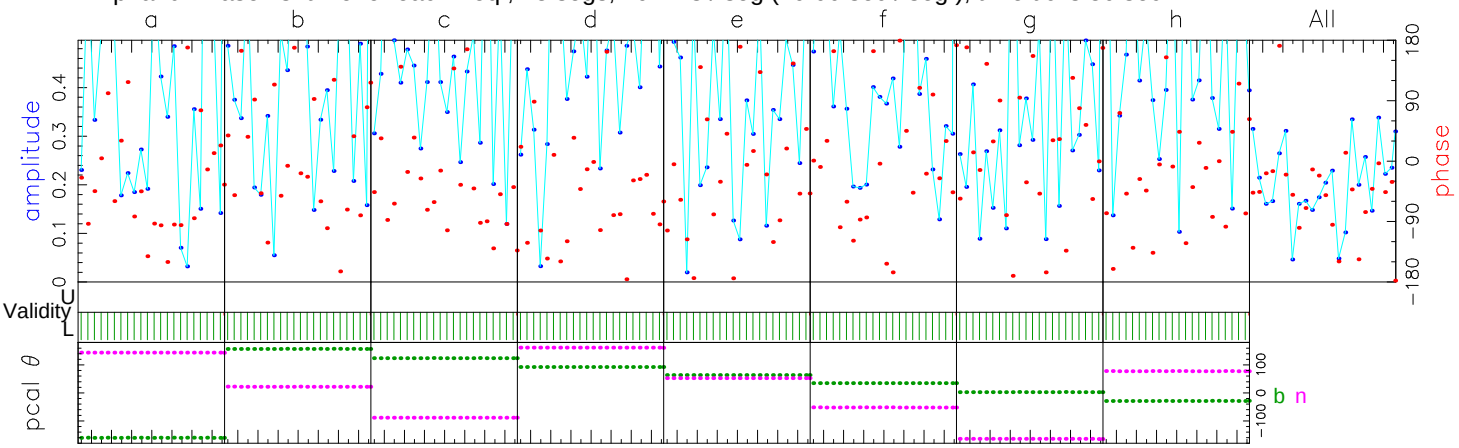


Fringe quality	0
SNR	5.8
Int time	419.987
Amp	0.166
Phase	-47.6
PFD	3.5e-01
Delays (us)	
SBD	-0.744282
MBD	-0.006317
Fringe rate (Hz)	0.277545
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120327 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-44.3	-41.5	-59.7	-53.4	-24.6	-29.4	42.3	-59.0	Phase	-47.6
	0.2	0.1	0.3	0.3	0.1	0.1	0.0	0.3	Ampl.	0.2
	27.1	183.2	32.9	34.2	82.1	127.7	91.1	33.9	Sbd box	33.7
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
n	572.1	571.7	569.6	570.0	571.5	572.1	571.0	570.1	PC L delays (ns)	
b:n	-160:144	157:22	124:-89	92:162	64:53	35:-52	3:-164	-29:78	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
n	14	13	13	13	12	12	13	13		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
n	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-4.57699680856E+03	Apriori delay (usec)	-4.57699049123E+03	Resid mbdelay (usec)	-6.31732E-03	+/-	3.8E-04
Sband delay (usec)	-4.57773477323E+03	Apriori clock (usec)	-9.7583008E+00	Resid sbdelay (usec)	-7.44282E-01	+/-	3.0E-03
Phase delay (usec)	-4.57699049431E+03	Apriori clockrate (us/s)	-2.8431971E-07	Resid phdelay (usec)	-3.07482E-06	+/-	1.3E-06
Delay rate (us/s)	4.38860367502E-01	Apriori rate (us/s)	4.38853916572E-01	Resid rate (us/s)	6.45093E-06	+/-	5.3E-09
Total phase (deg)	-9.8	Apriori accel (us/s/s)	2.30231591491E-05	Resid phase (deg)	-47.6	+/-	19.9

	RMS	Theor.	Amplitude	0.166 +/- 0.029
ph/seg (deg)	51.4	47.6	Search (1024X32)	0.141
amp/seg (%)	67.6	83.1	Interp.	0.000
ph/frq (deg)	39.4	28.1	Inc. seg. avg.	0.172
amp/frq (%)	51.8	49.0	Inc. frq. avg.	0.155

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

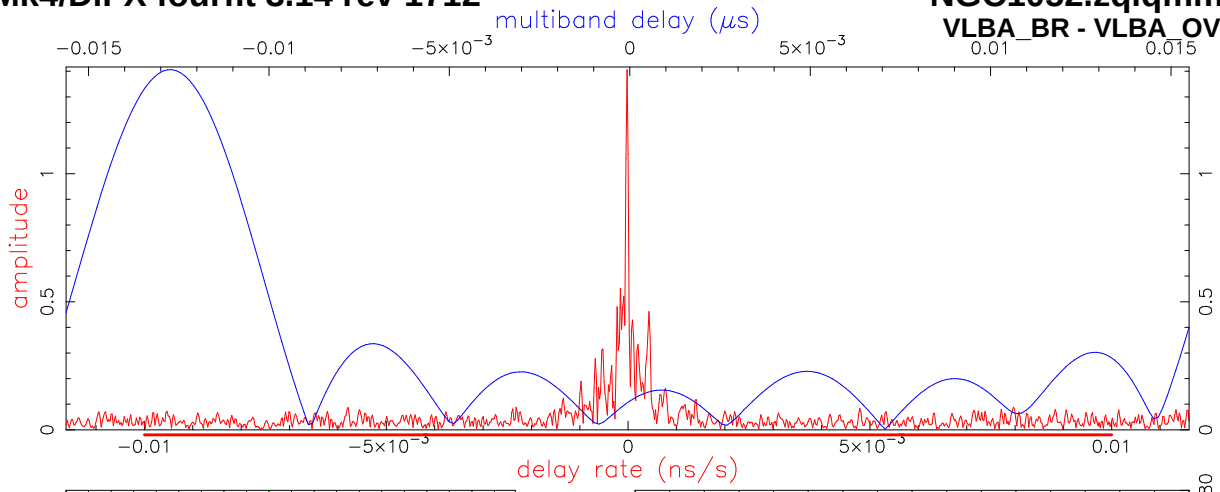
b: az 137.7 el 24.4 pa -27.0 n: az 166.9 el 39.2 pa -9.4 u,v (fr/asec) -1253.089 210.008 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bn..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bn.Q.20.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

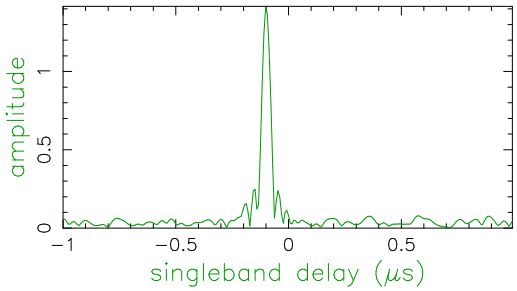
NGC1052.zqlqmm, No0205, bo

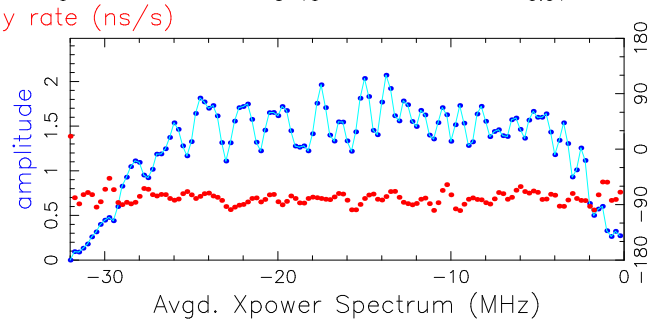
VLBA_BR - VLBA_OV, fgroup Q, pol LL



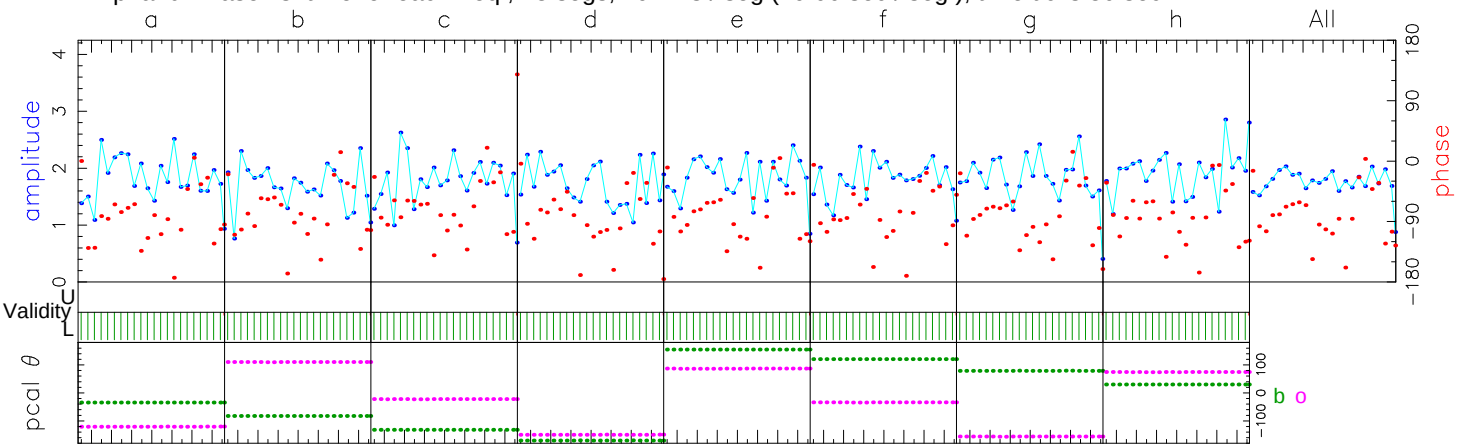
Fringe quality 6

SNR	56.1
Int time	419.988
Amp	1.417
Phase	-79.7
PFD	0.0e+00
Delays (us)	
SBD	-0.099137
MBD	-0.012735
Fringe rate (Hz)	-0.000695
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120328 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-84.6	-78.2	-72.4	-84.2	-77.8	-79.5	-78.9	-82.3	Phase	-79.7
	1.4	1.3	1.5	1.4	1.4	1.4	1.5	1.5	Ampl.	1.4
	116.2	116.2	116.4	116.3	116.3	116.3	116.4	116.3	Sbd box	116.3
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
o	353.4	355.2	353.9	353.3	354.3	352.9	353.9	353.7	PC L delays (ns)	
b:o	-35:-121	-83:110	-132:-22	-170:-149	155:87	121:-34	79:-156	30:74	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
o	31	30	31	30	28	31	30	28		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids Tracks	
o	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids Tracks	

Group delay (usec)(model)	-2.82803595049E+03	Apriori delay (usec)	-2.82802321580E+03	Resid mbdelay (usec)	-1.27347E-02	+/-	3.9E-05
Sband delay (usec)	-2.82812235230E+03	Apriori clock (usec)	-6.5739565E+00	Resid sbdelay (usec)	-9.91365E-02	+/-	3.1E-04
Phase delay (usec)	-2.82802322094E+03	Apriori clockrate (us/s)	-2.4721712E-07	Resid phdelay (usec)	-5.14478E-06	+/-	1.3E-07
Delay rate (us/s)	-9.56801072640E-02	Apriori rate (us/s)	-9.56800911030E-02	Resid rate (us/s)	-1.61610E-08	+/-	5.4E-10
Total phase (deg)	-20.8	Apriori accel (us/s/s)	1.27592909462E-05	Resid phase (deg)	-79.7	+/-	2.0

	RMS	Theor.	Amplitude	1.417 +/- 0.025
ph/seg (deg)	39.6	4.9	Search (1024X32)	1.375
amp/seg (%)	28.1	8.5	Interp.	0.000
ph/frq (deg)	4.3	2.9	Inc. seg. avg.	1.776
amp/frq (%)	3.8	5.0	Inc. frq. avg.	1.408

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

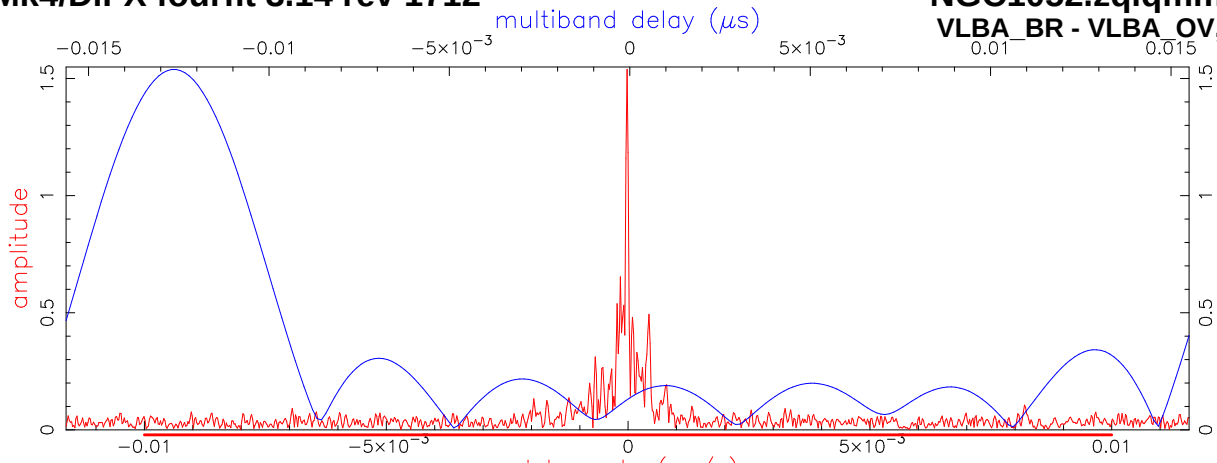
b: az 137.7 el 24.4 pa -27.0 o: az 134.9 el 33.0 pa -34.1 u,v (fr/asec) 284.325 540.710 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bo..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bo.Q.21.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

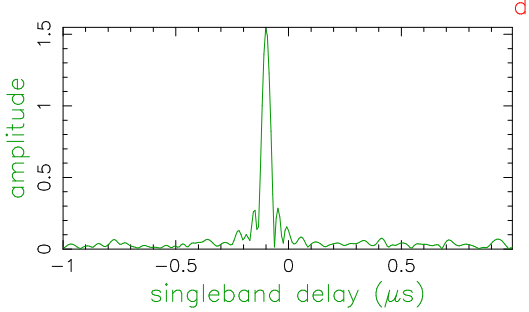
NGC1052.zqlqmm, No0205, bo

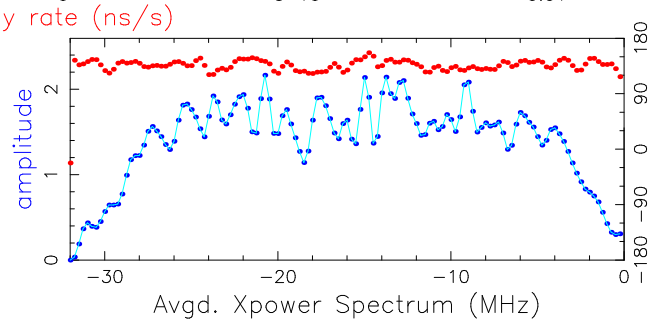
VLBA_BR - VLBA_OV, fgroup Q, pol RR



Fringe quality 6

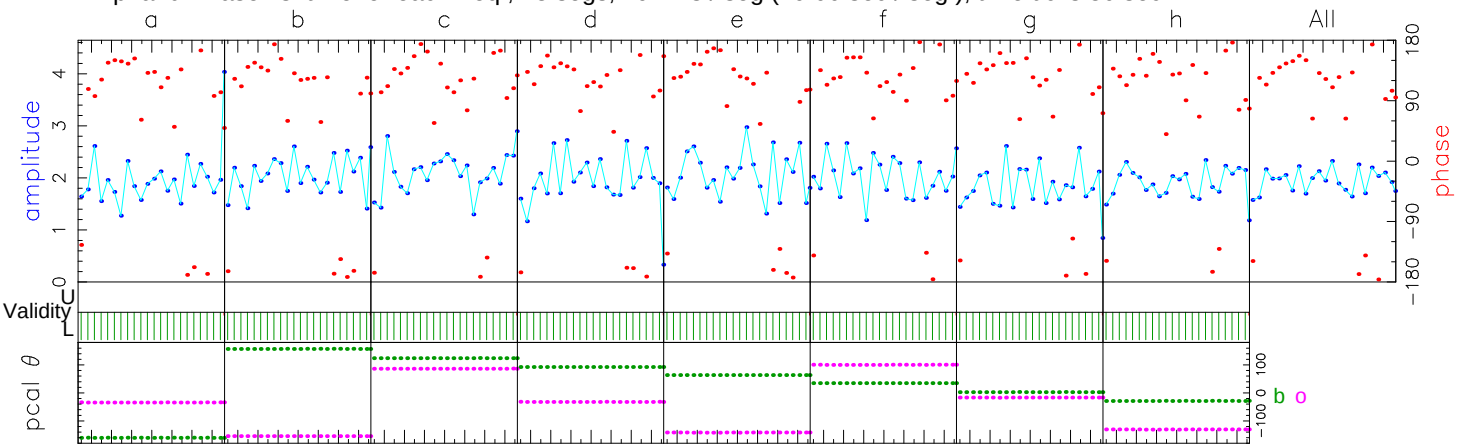
SNR 61.4
Int time 419.988
Amp 1.549
Phase 136.6
PFD 0.0e+00
Delays (us)
SBD -0.099280
MBD -0.012619
Fringe rate (Hz)
-0.000684
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120329
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	135.1	140.9	132.4	136.7	141.6	134.2	139.0	133.1	Phase	136.6
	1.4	1.6	1.6	1.6	1.6	1.6	1.4	1.5	Ampl.	1.5
	116.4	116.2	116.1	116.4	116.4	116.3	116.3	116.3	Sbd box	116.3
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
o	338.2	338.2	337.0	336.5	337.8	336.6	337.7	336.0	PC R delays (ns)	
b:o	-160:-34	157:-154	124:86	92:-32	64:-142	35:100	3:-17	-29:-131	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
o	30	29	29	29	30	30	29	32		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
o	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-2.82803583518E+03	Apriori delay (usec)	-2.82802321580E+03	Resid mbdelay (usec)	-1.26194E-02	+/-	3.5E-05
Sband delay (usec)	-2.82812249580E+03	Apriori clock (usec)	-6.5739565E+00	Resid sbdelay (usec)	-9.92800E-02	+/-	2.8E-04
Phase delay (usec)	-2.82802320697E+03	Apriori clockrate (us/s)	-2.4721712E-07	Resid phdelay (usec)	8.82157E-06	+/-	1.2E-07
Delay rate (us/s)	-9.56801070127E-02	Apriori rate (us/s)	-9.56800911030E-02	Resid rate (us/s)	-1.59097E-08	+/-	5.0E-10
Total phase (deg)	-164.5	Apriori accel (us/s/s)	1.27592909462E-05	Resid phase (deg)	136.6	+/-	1.9

	RMS	Theor.	Amplitude	1.549 +/- 0.025
ph/seg (deg)	40.2	4.5	Search (1024X32)	1.502
amp/seg (%)	29.7	7.8	Interp.	0.000
ph/frq (deg)	3.8	2.6	Inc. seg. avg.	1.948
amp/frq (%)	5.3	4.6	Inc. frq. avg.	1.540

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

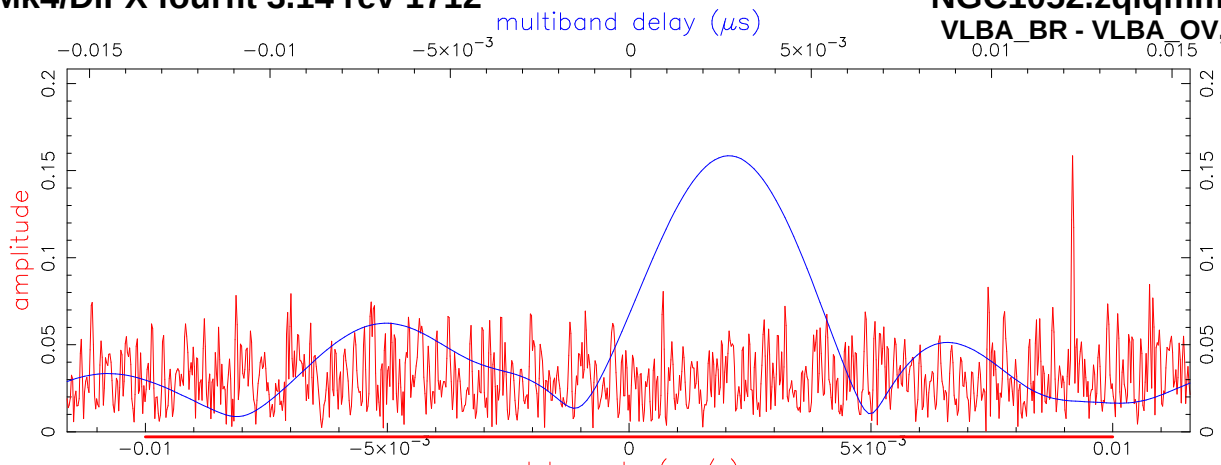
b: az 137.7 el 24.4 pa -27.0 o: az 134.9 el 33.0 pa -34.1 u,v (fr/asec) 284.325 540.710 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bo..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bo.Q.22.zqlqmm

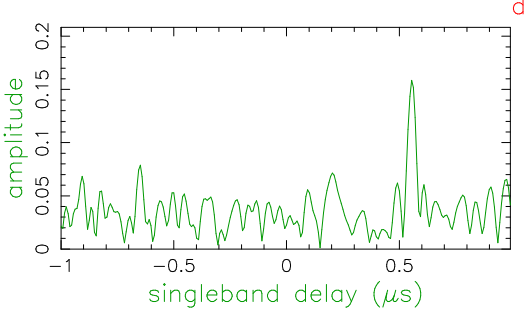
Mk4/DiFX fourfit 3.14 rev 1712

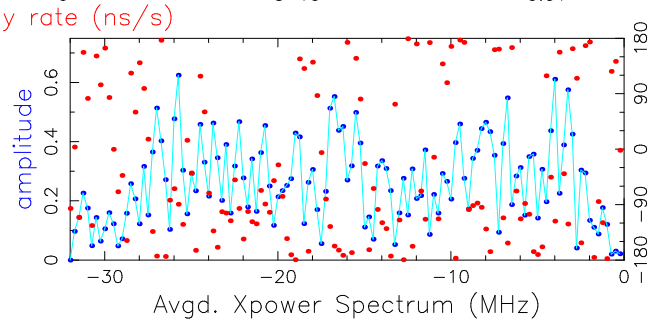
NGC1052.zqlqmm, No0205, bo

VLBA_BR - VLBA_OV, fgroup Q, pol LR

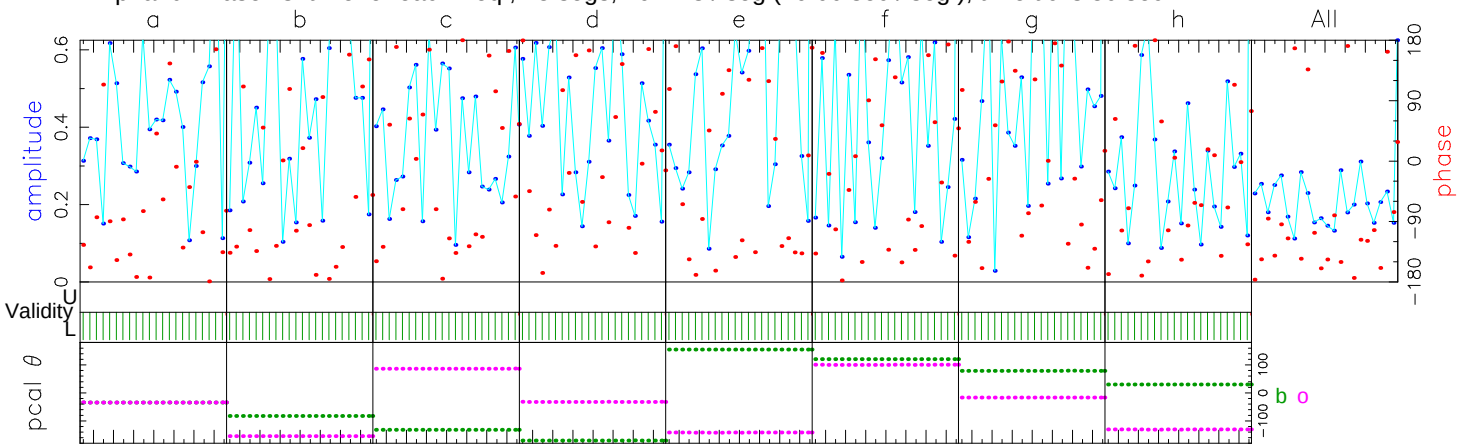


Fringe quality	0
SNR	6.3
Int time	419.988
Amp	0.208
Phase	-141.5
PFD	1.7e-02
Delays (us)	
SBD	0.556313
MBD	0.002673
Fringe rate (Hz)	0.394391
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120330
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	-127.9	-153.1	-143.9	-113.1	-156.1	-150.2	-132.6	-117.2	Phase	-141.5
	0.3	0.3	0.2	0.1	0.4	0.2	0.2	0.1	Ampl.	0.2
	200.5	58.4	59.2	46.0	200.6	34.4	79.4	64.8	Sbd box	200.2
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
o	338.2	338.2	337.0	336.5	337.8	336.6	337.7	336.0	PC R delays (ns)	
b:o	-35:-34	-83:-154	-132:86	-170:-32	155:-142	121:100	79:-17	30:-131	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
o	30	29	29	29	30	30	29	32		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
o	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-2.82802054236E+03	Apriori delay (usec)	-2.82802321580E+03	Resid mbdelay (usec)	2.67343E-03	+/-	3.4E-04
Sband delay (usec)	-2.82746690280E+03	Apriori clock (usec)	-6.5739565E+00	Resid sbdelay (usec)	5.56313E-01	+/-	2.7E-03
Phase delay (usec)	-2.82802322493E+03	Apriori clockrate (us/s)	-2.4721712E-07	Resid phdelay (usec)	-9.13460E-06	+/-	1.2E-06
Delay rate (us/s)	-9.56709243370E-02	Apriori rate (us/s)	-9.56800911030E-02	Resid rate (us/s)	9.16677E-06	+/-	4.8E-09
Total phase (deg)	-82.6	Apriori accel (us/s/s)	1.27592909462E-05	Resid phase (deg)	-141.5	+/-	18.2

	RMS	Theor.	Amplitude	0.208 +/- 0.033	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5			
ph/seg (deg)	41.8	43.6	Search (1024X32)	0.156	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	49.2	76.1	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016	0.016
ph/frq (deg)	18.7	25.7	Inc. seg. avg.	0.210	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010	0.010
amp/frq (%)	42.3	44.9	Inc. frq. avg.	0.195	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

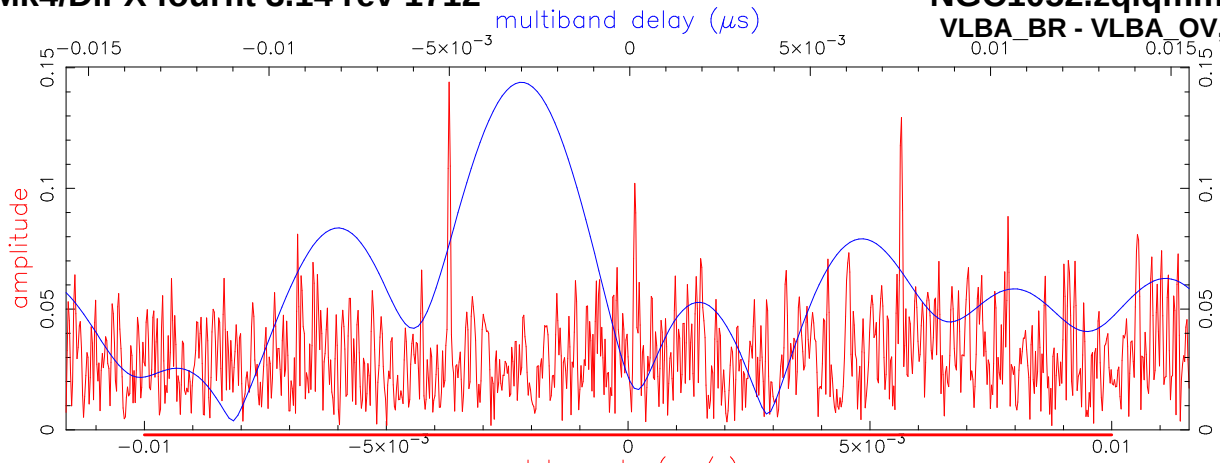
b: az 137.7 el 24.4 pa -27.0 o: az 134.9 el 33.0 pa -34.1 u,v (fr/asec) 284.325 540.710 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bo..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bo.Q.23.zqlqmm

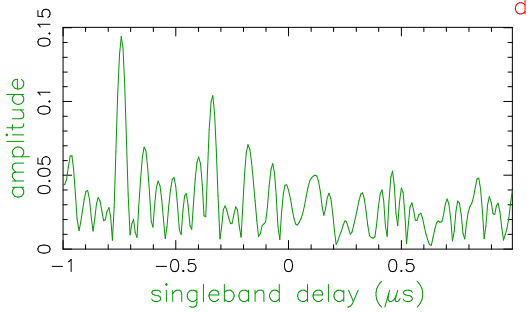
Mk4/DiFX fourfit 3.14 rev 1712

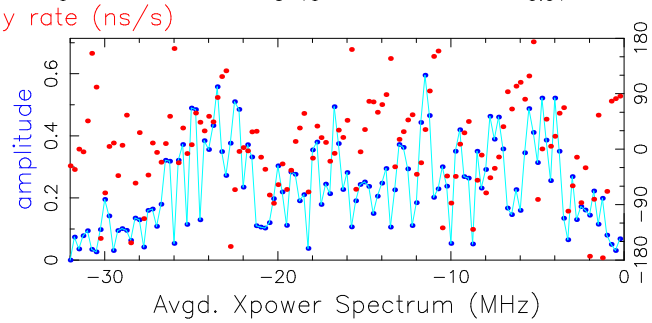
NGC1052.zqlqmm, No0205, bo

VLBA_BR - VLBA_OV, fgroup Q, pol RL

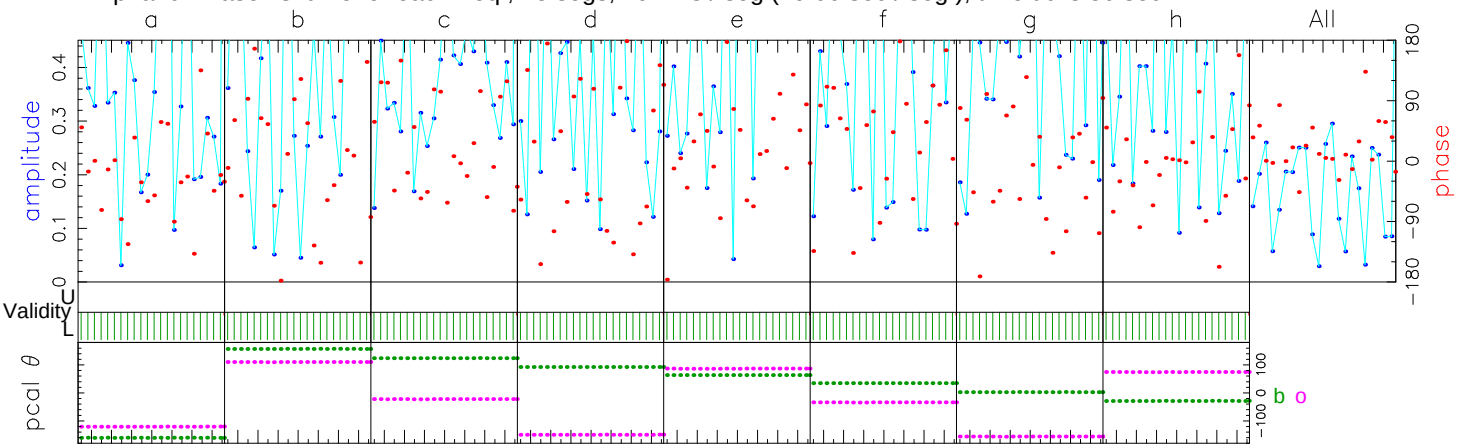


Fringe quality	0
SNR	5.7
Int time	419.988
Amp	0.150
Phase	14.7
PFD	4.5e-01
Delays (us)	
SBD	-0.741302
MBD	-0.003008
Fringe rate (Hz)	-0.159095
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120331 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-5.4	23.4	14.5	-177.4	30.8	66.8	-1.9	-3.0	Phase	14.7
	0.2	0.1	0.1	0.1	0.3	0.1	0.2	0.3	Ampl.	0.2
	35.0	138.4	10.6	172.1	217.7	90.7	86.3	35.7	Sbd box	34.1
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
o	353.4	355.2	353.9	353.3	354.3	352.9	353.9	353.7	PC L delays (ns)	
b:o	-160:-121	157:110	124:-22	92:-149	64:87	35:-34	3:-156	-29:74	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
o	31	30	31	30	28	31	30	28		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
o	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-2.82802622390E+03	Apriori delay (usec)	-2.82802321580E+03	Resid mbdelay (usec)	-3.00811E-03	+/-	3.8E-04
Sband delay (usec)	-2.82876451780E+03	Apriori clock (usec)	-6.5739565E+00	Resid sbdelay (usec)	-7.41302E-01	+/-	3.0E-03
Phase delay (usec)	-2.82802321485E+03	Apriori clockrate (us/s)	-2.4721712E-07	Resid phdelay (usec)	9.48495E-07	+/-	1.3E-06
Delay rate (us/s)	-9.56837889170E-02	Apriori rate (us/s)	-9.56800911030E-02	Resid rate (us/s)	-3.69781E-06	+/-	5.3E-09
Total phase (deg)	-286.4	Apriori accel (us/s/s)	1.27592909462E-05	Resid phase (deg)	14.7	+/-	20.1

	RMS	Theor.	Amplitude	0.150 +/- 0.026
ph/seg (deg)	39.2	48.1	Search (1024X32)	0.142
amp/seg (%)	64.2	84.0	Interp.	0.000
ph/frq (deg)	73.3	28.4	Inc. seg. avg.	0.130
amp/frq (%)	50.6	49.5	Inc. frq. avg.	0.157

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

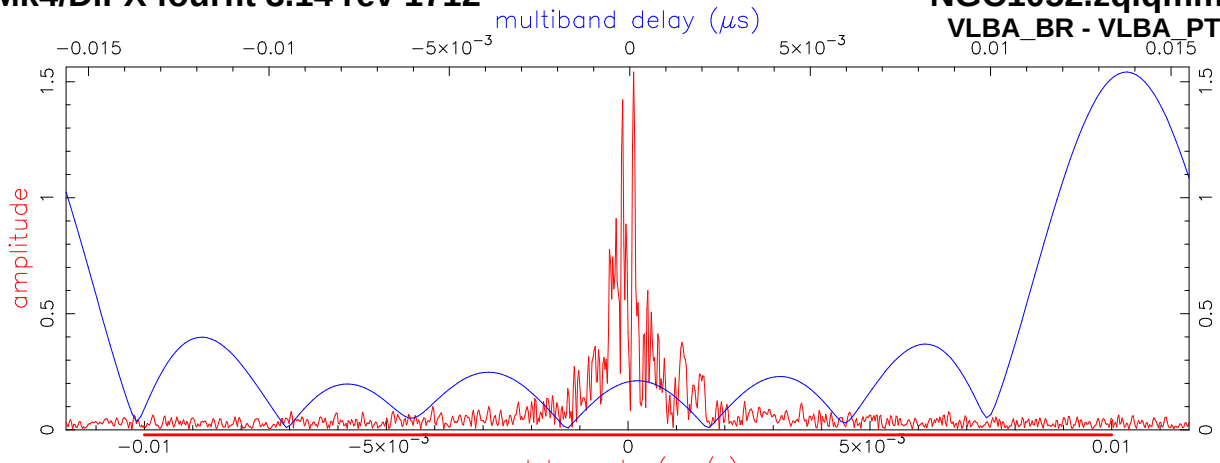
b: az 137.7 el 24.4 pa -27.0 o: az 134.9 el 33.0 pa -34.1 u,v (fr/asec) 284.325 540.710 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bo..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bo.Q.24.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

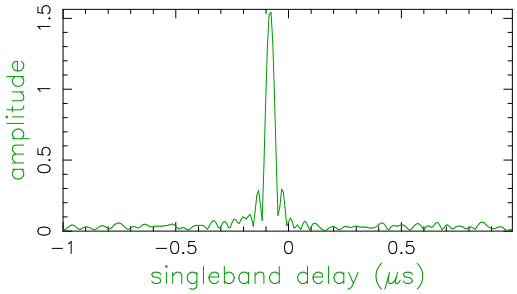
NGC1052.zqlqmm, No0205, bp

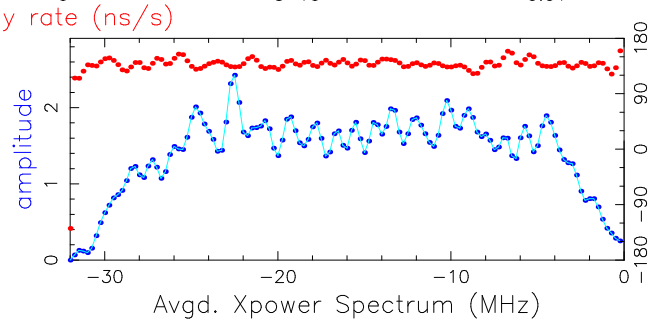
VLBA_BR - VLBA_PT, fgroup Q, pol LL



Fringe quality 5

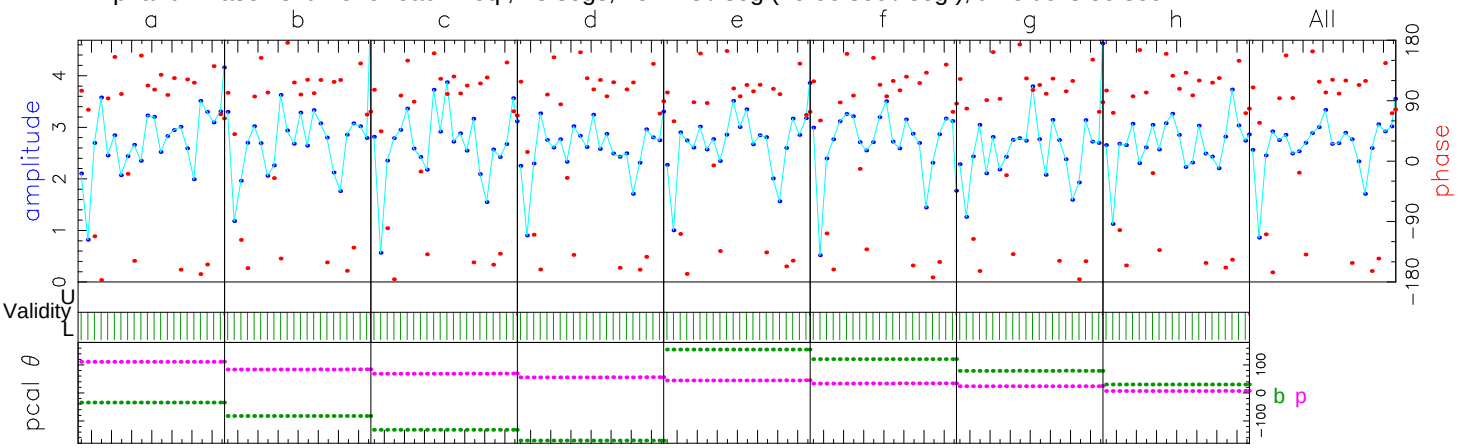
SNR	62.0
Int time	419.986
Amp	1.563
Phase	138.0
PFD	0.0e+00
Delays (us)	
SBD	-0.081493
MBD	0.013750
Fringe rate (Hz)	0.004971
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000





Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120332
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	139.7	139.4	135.1	138.9	132.6	135.5	141.0	142.1	Phase	138.0
	1.7	1.5	1.6	1.5	1.4	1.7	1.5	1.5	Ampl.	1.5
	118.9	118.4	118.8	118.4	118.7	118.4	118.5	118.5	Sbd box	118.6
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
p	626.8	626.7	627.5	626.1	625.1	624.2	625.7	626.5	PC L delays (ns)	
b:p	-35:111	-83:84	-132:69	-170:56	155:45	121:34	79:24	30:7	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
p	13	14	15	16	16	17	18	17		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
p	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.04571743335E+03	Apriori delay (usec)	-5.04573118344E+03	Resid mbdelay (usec)	1.37501E-02	+/-	3.5E-05
Sband delay (usec)	-5.04581267694E+03	Apriori clock (usec)	-6.7691994E+00	Resid sbdelay (usec)	-8.14935E-02	+/-	2.8E-04
Phase delay (usec)	-5.04573117453E+03	Apriori clockrate (us/s)	-2.5390784E-07	Resid phdelay (usec)	8.91272E-06	+/-	1.2E-07
Delay rate (us/s)	7.04300475671E-02	Apriori rate (us/s)	7.04299320182E-02	Resid rate (us/s)	1.15549E-07	+/-	4.9E-10
Total phase (deg)	-19.0	Apriori accel (us/s/s)	2.38859679385E-05	Resid phase (deg)	138.0	+/-	1.8

	RMS	Theor.	Amplitude	1.563 +/- 0.025
ph/seg (deg)	61.3	4.4	Search (1024X32)	1.532
amp/seg (%)	76.1	7.7	Interp.	0.000
ph/frq (deg)	3.5	2.6	Inc. seg. avg.	2.635
amp/frq (%)	5.6	4.6	Inc. frq. avg.	1.542

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

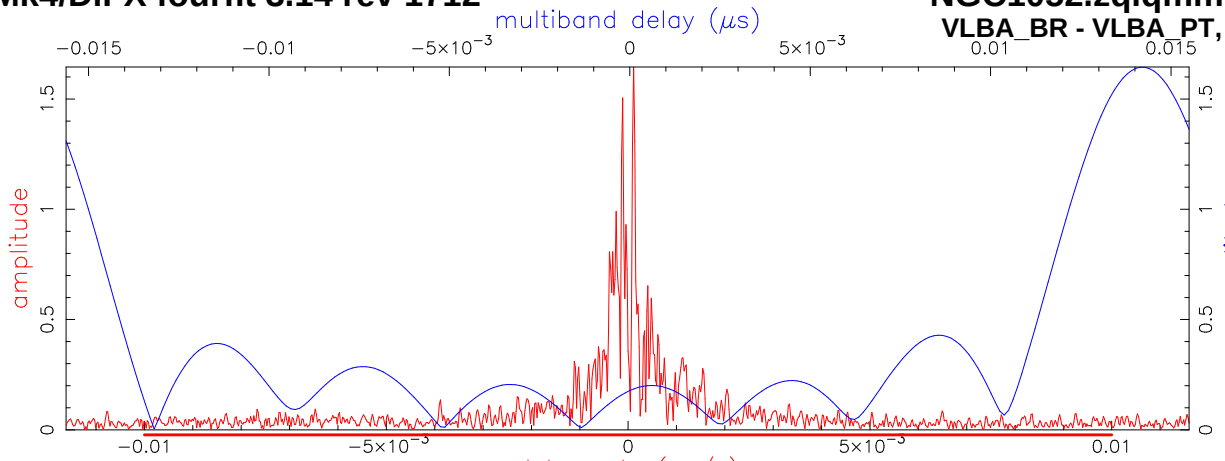
b: az 137.7 el 24.4 pa -27.0 p: az 144.1 el 40.5 pa -28.5 u,v (fr/asec) -188.424 657.534 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bp..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bp.Q.25.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

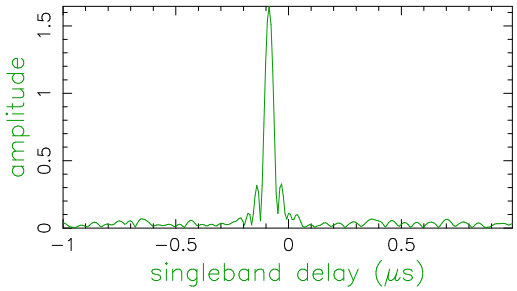
NGC1052.zqlqmm, No0205, bp

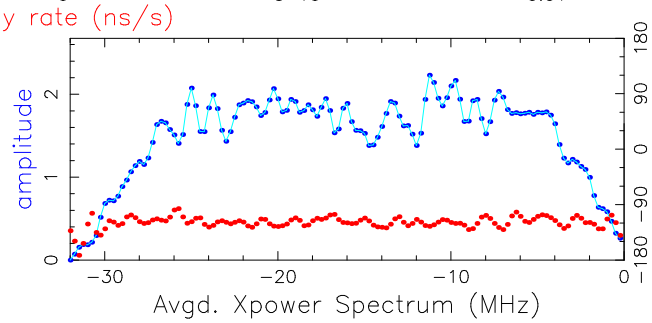
VLBA_BR - VLBA_PT, fgroup Q, pol RR



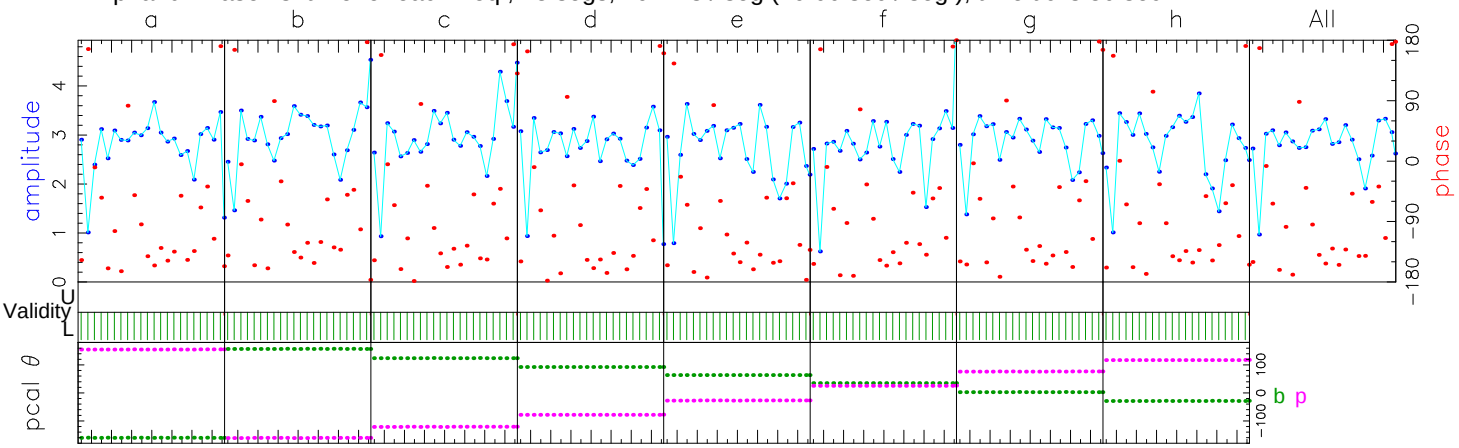
Fringe quality 5

SNR	65.2
Int time	419.986
Amp	1.645
Phase	-117.9
PFD	0.0e+00
Delays (us)	
SBD	-0.086415
MBD	0.014204
Fringe rate (Hz)	0.004959
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713 2017:220:120333 2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s -8°15'20.752"





Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



									Freq (MHz)	All
	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00		
	-119.6	-111.5	-118.3	-125.9	-121.1	-114.2	-114.2	-119.4	Phase	-117.9
	1.7	1.8	1.7	1.6	1.6	1.6	1.6	1.6	Ampl.	1.6
	117.9	117.8	118.1	118.0	117.9	118.1	117.9	117.9	Sbd box	117.9
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
p	605.5	608.2	609.3	607.4	605.5	605.2	607.2	606.9	PC R delays (ns)	
b:p	-160:155	157:-161	124:-121	92:-78	64:-27	35:25	3:76	-29:117	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
p	11	12	13	12	12	12	14	13		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
p	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.04571697923E+03	Apriori delay (usec)	-5.04573118344E+03	Resid mbdelay (usec)	1.42042E-02	+/-	3.3E-05
Sband delay (usec)	-5.04581759794E+03	Apriori clock (usec)	-6.7691994E+00	Resid sbdelay (usec)	-8.64145E-02	+/-	2.6E-04
Phase delay (usec)	-5.04573119105E+03	Apriori clockrate (us/s)	-2.5390784E-07	Resid phdelay (usec)	-7.61339E-06	+/-	1.1E-07
Delay rate (us/s)	7.04300472708E-02	Apriori rate (us/s)	7.04299320182E-02	Resid rate (us/s)	1.15253E-07	+/-	4.7E-10
Total phase (deg)	-275.0	Apriori accel (us/s/s)	2.38859679385E-05	Resid phase (deg)	-117.9	+/-	1.8

	RMS	Theor.	Amplitude	1.645 +/- 0.025
ph/seg (deg)	60.5	4.2	Search (1024X32)	1.598
amp/seg (%)	77.7	7.4	Interp.	0.000
ph/frq (deg)	5.0	2.5	Inc. seg. avg.	2.810
amp/frq (%)	4.4	4.3	Inc. frq. avg.	1.648

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

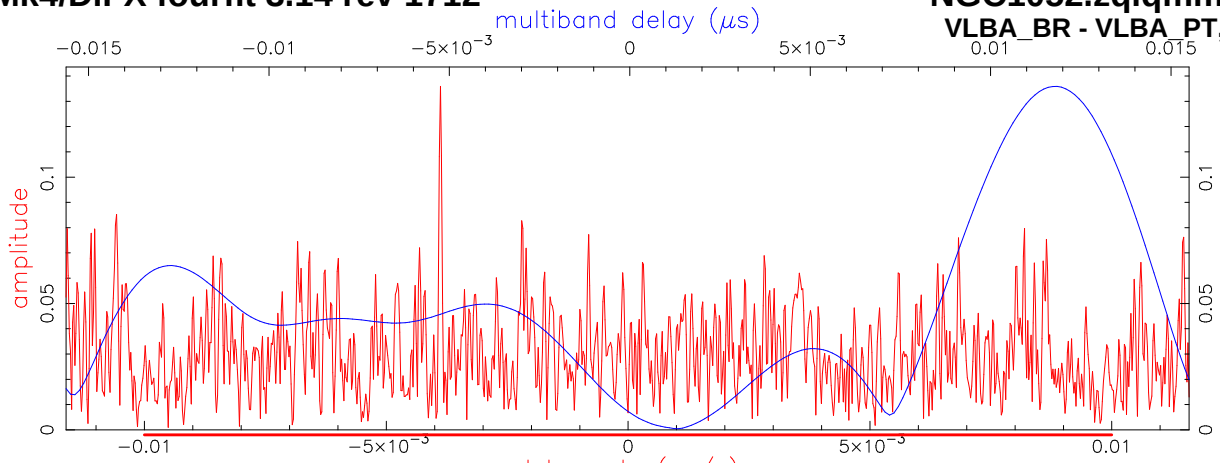
b: az 137.7 el 24.4 pa -27.0 p: az 144.1 el 40.5 pa -28.5 u,v (fr/asec) -188.424 657.534 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bp..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bp.Q.26.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

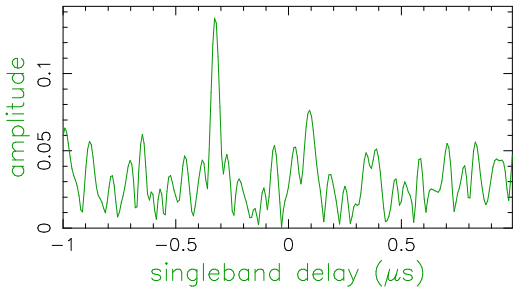
NGC1052.zqlqmm, No0205, bp

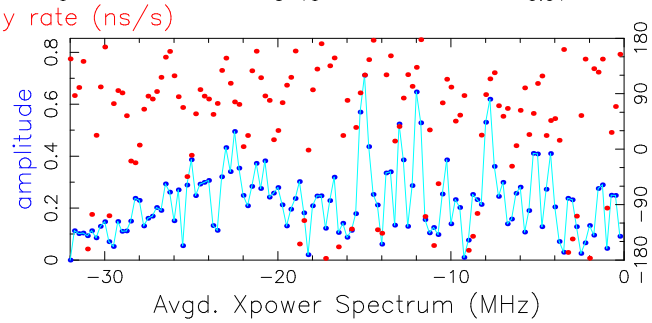
VLBA_BR - VLBA_PT, fgroup Q, pol LR



Fringe quality 0

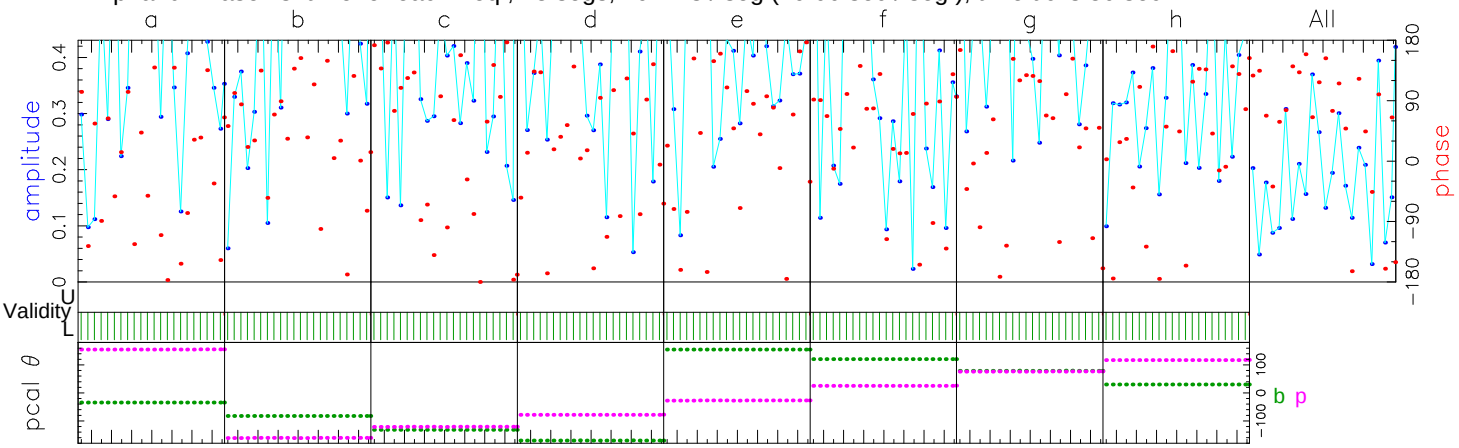
SNR 5.4
Int time 419.986
Amp 0.144
Phase 99.4
PFD 9.4e-01
Delays (us)
SBD -0.325436
MBD 0.011850
Fringe rate (Hz)
-0.167124
Ion TEC 0.000
Ref freq (MHz)
43024.0000
AP (sec) 1.000





Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 193020.00
Stop 193720.00
FRT 193350.00
Corr/FF/build
2017:164:184713
2017:220:120334
2017:170:130423
RA & Dec (J2000)
02h41m 4.7985s
-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-36.1	86.3	146.7	59.2	100.4	88.2	108.1	95.4	Phase	99.4
	0.0	0.2	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	14.7	72.2	87.9	8.1	210.6	87.5	87.2	235.8	Sbd box	87.3
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	877.7	878.7	876.7	877.4	878.1	878.1	878.5	877.1	PC L delays (ns)	
p	605.5	608.2	609.3	607.4	605.5	605.2	607.2	606.9	PC R delays (ns)	
b:p	-35:155	-83:-161	-132:-121	-170:-78	155:-27	121:25	79:76	30:117	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	17	17	18	19	18	17	17	17	PC amp	
p	11	12	13	12	12	12	14	13		
b	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	
p	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.04571933340E+03	Apriori delay (usec)	-5.04573118344E+03	Resid mbdelay (usec)	1.18500E-02	+/-	4.0E-04
Sband delay (usec)	-5.04605661944E+03	Apriori clock (usec)	-6.7691994E+00	Resid sbdelay (usec)	-3.25436E-01	+/-	3.2E-03
Phase delay (usec)	-5.04573117702E+03	Apriori clockrate (us/s)	-2.5390784E-07	Resid phdelay (usec)	6.41716E-06	+/-	1.4E-06
Delay rate (us/s)	7.04260475874E-02	Apriori rate (us/s)	7.04299320182E-02	Resid rate (us/s)	-3.88443E-06	+/-	5.6E-09
Total phase (deg)	-57.7	Apriori accel (us/s/s)	2.38859679385E-05	Resid phase (deg)	99.4	+/-	21.1

	RMS	Theor.	Amplitude	0.144 +/- 0.026
ph/seg (deg)	62.0	50.6	Search (1024X32)	0.134
amp/seg (%)	79.4	88.3	Interp.	0.000
ph/frq (deg)	61.4	29.8	Inc. seg. avg.	0.139
amp/frq (%)	48.7	52.1	Inc. frq. avg.	0.141

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: disabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.016	0.016
dr window (ns/s)	-0.010	0.010
ion window (TEC)	0.00	0.00

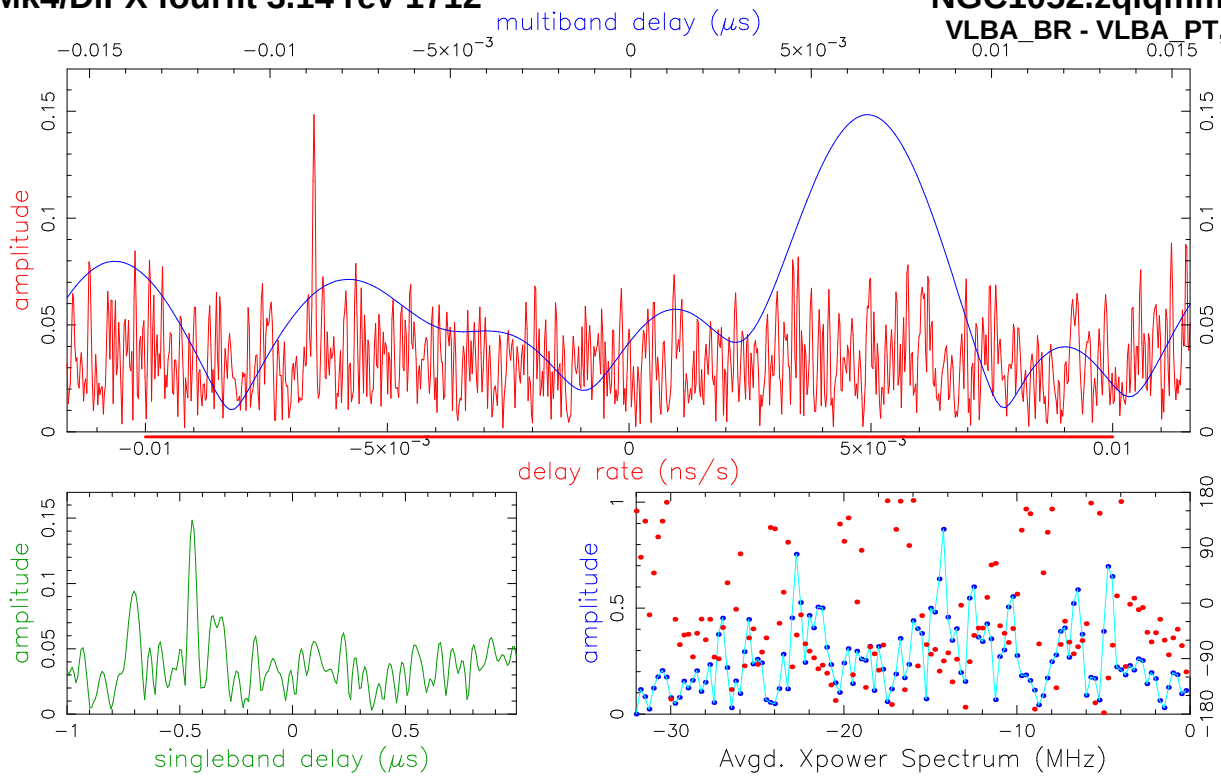
b: az 137.7 el 24.4 pa -27.0 p: az 144.1 el 40.5 pa -28.5 u,v (fr/asec) -188.424 657.534 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bp..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bp.Q.27.zqlqmm

Mk4/DiFX fourfit 3.14 rev 1712

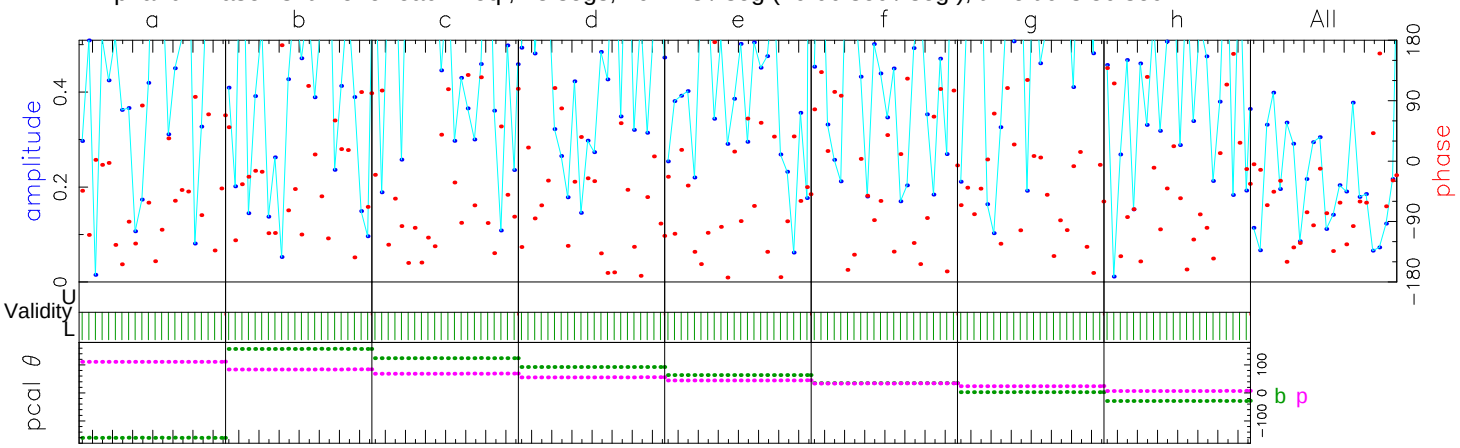
NGC1052.zqlqmm, No0205, bp

VLBA_BR - VLBA_PT, fgroup Q, pol RL



Fringe quality	0
SNR	5.9
Int time	419.986
Amp	0.170
Phase	-74.1
PFD	1.9e-01
Delays (us)	
SBD	-0.444030
MBD	0.006549
Fringe rate (Hz)	-0.280178
Ion TEC	0.000
Ref freq (MHz)	43024.0000
AP (sec)	1.000
Exp.	c171b
Exper #	16383
Yr:day	2017:090
Start	193020.00
Stop	193720.00
FRT	193350.00
Corr/FF/build	2017:164:184713
	2017:220:120335
	2017:170:130423
RA & Dec (J2000)	02h41m 4.7985s
	-8°15'20.752"

Amp. and Phase vs. time for each freq., 23 segs, 19 APs / seg (19.00 sec / seg.), time ticks 30 sec



	43024.00	43056.00	43088.00	43120.00	43152.00	43184.00	43216.00	43248.00	Freq (MHz)	All
	-74.7	-40.1	-105.6	-64.4	-79.1	163.9	-55.9	-75.1	Phase	-74.1
	0.3	0.2	0.3	0.2	0.2	0.1	0.3	0.1	Ampl.	0.2
	72.3	119.2	73.3	109.2	218.0	169.7	71.9	190.9	Sbd box	72.2
U/L	0/420	0/420	0/420	0/420	0/420	0/420	0/420	0/420	APs used	
b	862.1	861.1	860.9	861.5	862.8	862.3	862.4	860.6	PC R delays (ns)	
p	626.8	626.7	627.5	626.1	625.1	624.2	625.7	626.5	PC L delays (ns)	
b:p	-160:111	157:84	124:69	92:56	64:45	35:34	3:24	-29:7	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	7	8	9	10	11	10	10	10	PC amp	
p	13	14	15	16	16	17	18	17		
b	Q00LR	Q01LR	Q02LR	Q03LR	Q04LR	Q05LR	Q06LR	Q07LR	Chan ids	
									Tracks	
p	Q00LL	Q01LL	Q02LL	Q03LL	Q04LL	Q05LL	Q06LL	Q07LL	Chan ids	
									Tracks	

Group delay (usec)(model)	-5.04572463395E+03	Apriori delay (usec)	-5.04573118344E+03	Resid mbdelay (usec)	6.54949E-03	+/-	3.7E-04
Sband delay (usec)	-5.04617521344E+03	Apriori clock (usec)	-6.7691994E+00	Resid sbdelay (usec)	-4.44030E-01	+/-	2.9E-03
Phase delay (usec)	-5.04573118822E+03	Apriori clockrate (us/s)	-2.5390784E-07	Resid phdelay (usec)	-4.78311E-06	+/-	1.3E-06
Delay rate (us/s)	7.04234198855E-02	Apriori rate (us/s)	7.04299320182E-02	Resid rate (us/s)	-6.51213E-06	+/-	5.2E-09
Total phase (deg)	-231.2	Apriori accel (us/s/s)	2.38859679385E-05	Resid phase (deg)	-74.1	+/-	19.4

	RMS	Theor.					
			Amplitude	0.170 +/- 0.029	Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5		
ph/seg (deg)	54.4	46.6	Search (1024X32)	0.147	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
amp/seg (%)	80.5	81.4	Interp.	0.000	Bits/sample: 2x2 SampCntNorm: disabled	mb window (us)	-0.016 0.016
ph/frq (deg)	54.0	27.5	Inc. seg. avg.	0.177	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.010 0.010
amp/frq (%)	47.2	48.0	Inc. frq. avg.	0.180	Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 137.7 el 24.4 pa -27.0 p: az 144.1 el 40.5 pa -28.5 u,v (fr/asec) -188.424 657.534 simultaneous interpolator

Control file: default Input file: /Exps/c171b/vlba_7mm/1234/No0205/bp..zqlqmm Output file: /Exps/c171b/vlba_7mm/1234/No0205/bp.Q.28.zqlqmm