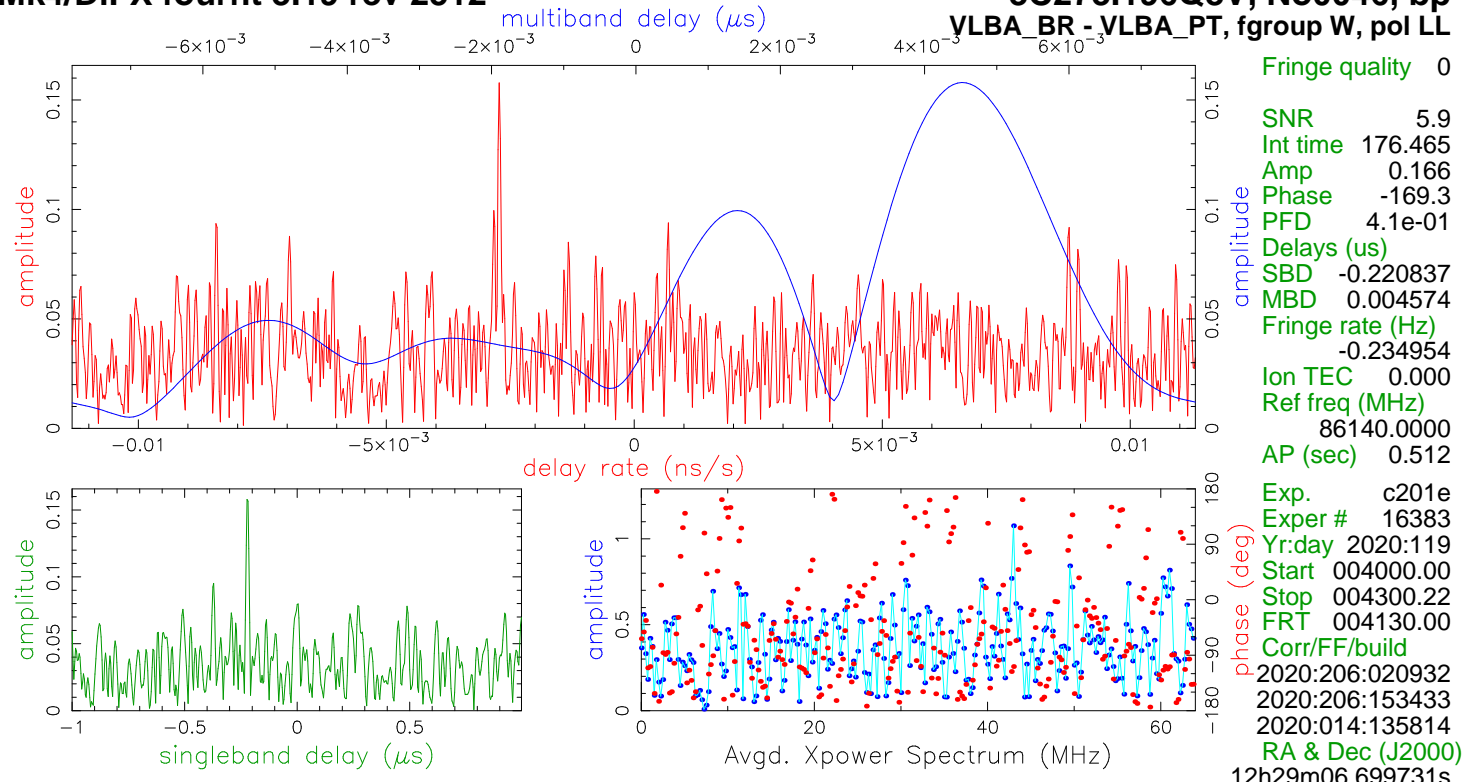
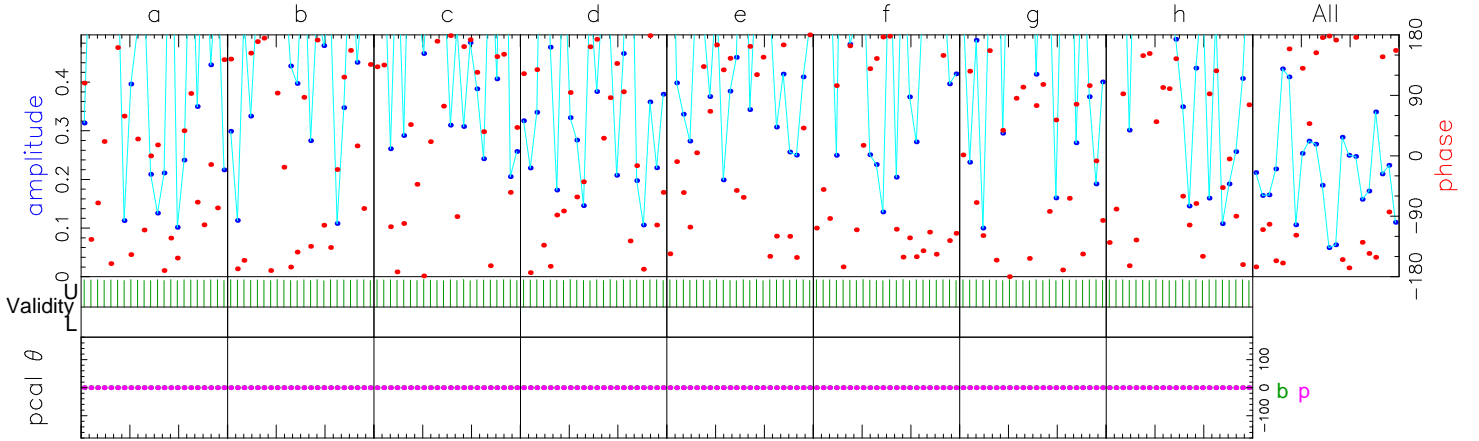


Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bp
VLBA_BR - VLBA_PT, fgroup W, pol LL



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-110.6	173.2	151.1	-158.9	-166.9	-140.8	177.9	160.4	Phase	-169.3
	0.1	0.2	0.2	0.1	0.1	0.3	0.1	0.1	Ampl.	0.2
	472.6	201.3	112.7	371.8	254.9	200.6	329.0	33.5	Sbd box	200.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.86874089931E+03		Apriori delay (usec)		-3.86852672302E+03		Resid mbdelay (usec)		4.57371E-03	+/- 1.8E-04
Sband delay (usec)	-3.86874756027E+03		Apriori clock (usec)		-1.8722689E+01		Resid sbdelay (usec)		-2.20837E-01	+/- 1.5E-03
Phase delay (usec)	-3.86852672848E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-5.46064E-06	+/- 6.3E-07
Delay rate (us/s)	-1.73845095204E-01		Apriori rate (us/s)		-1.73842367616E-01		Resid rate (us/s)		-2.2759E-06	+/- 6.0E-09
Total phase (deg)			Apriori accel (us/s/s)		2.11532815172E-05		Resid phase (deg)		-169.3	+/- 19.5

ph/seg (deg) 48.5 45.7 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 68.2 79.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 34.9 27.6 Inc. seg. avg. 0.171 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

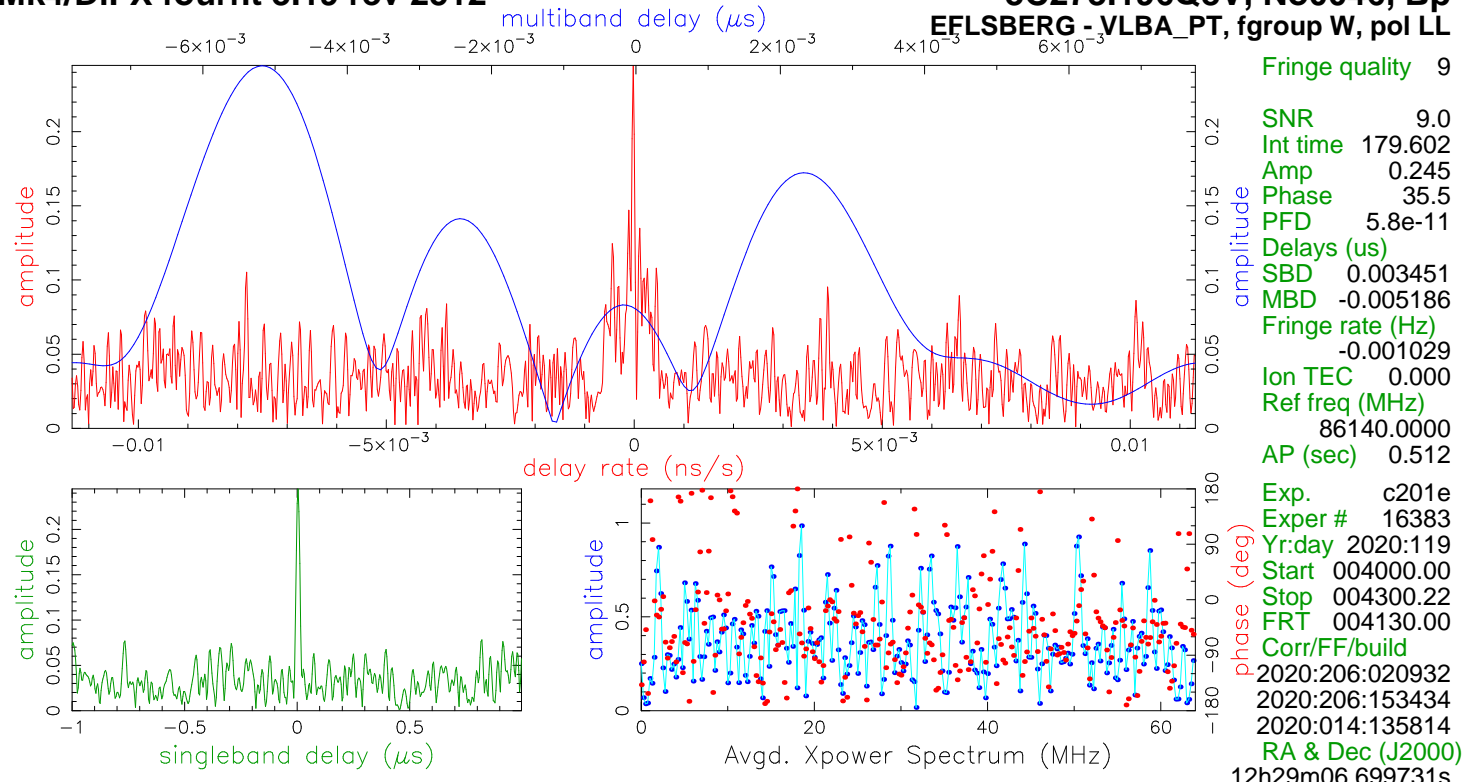
amp/frq (%) 43.1 48.1 Inc. frq. avg. 0.166 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

b: az 95.6 el 7.6 pa -41.7 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1007.515 1659.012 simultaneous interpolator

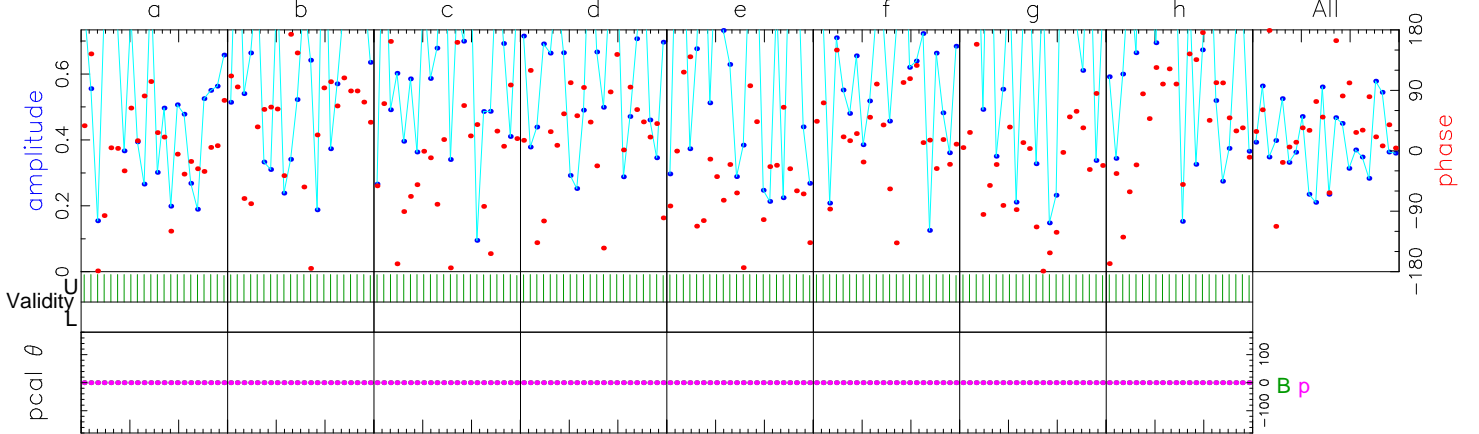
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bp.W.16.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Bp
EFLSBERG - VLBA_PT, fgroup W, pol LL



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



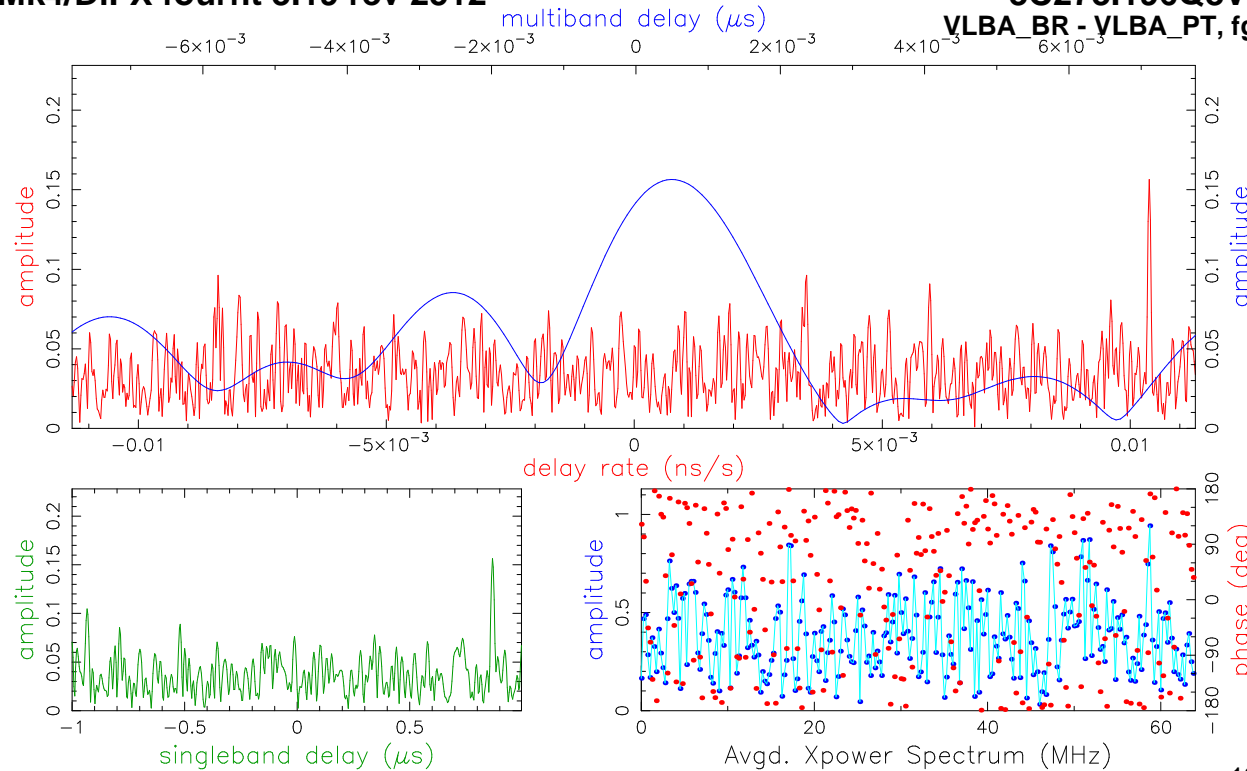
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	17.9	80.0	13.0	49.1	-36.5	46.8	-1.7	82.6	Phase	35.5
	0.3	0.4	0.2	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3
	256.7	258.0	259.1	258.6	259.4	258.0	258.1	257.6	Sbd box	257.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.17353412438E+03		Apriori delay (usec)		3.17352368527E+03		Resid mbdelay (usec)		-5.18589E-03	+/- 1.2E-04
Sband delay (usec)	3.17352713627E+03		Apriori clock (usec)		-4.2874489E+00		Resid sbdelay (usec)		3.45100E-03	+/- 9.6E-04
Phase delay (usec)	3.17352368642E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		1.14477E-06	+/- 4.1E-07
Delay rate (us/s)	-1.90874858987E+00		Apriori rate (us/s)		-1.90874857793E+00		Resid rate (us/s)		-1.19406E-08	+/- 4.0E-09
Total phase (deg)	125.2		Apriori accel (us/s/s)		-1.61014407280E-05		Resid phase (deg)		35.5	+/- 12.8

	RMS	Theor.	Amplitude	0.245 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	62.4	30.0	Search (1024X32)	0.229	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	76.2	52.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.5	18.1	Inc. seg. avg.	0.349	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	33.0	31.5	Inc. frq. avg.	0.295	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 234.2 el 28.0 pa 31.1 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10930.153 1796.754 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Bp.W.19.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bp
VLBA_BR - VLBA_PT, fgroup W, pol RR

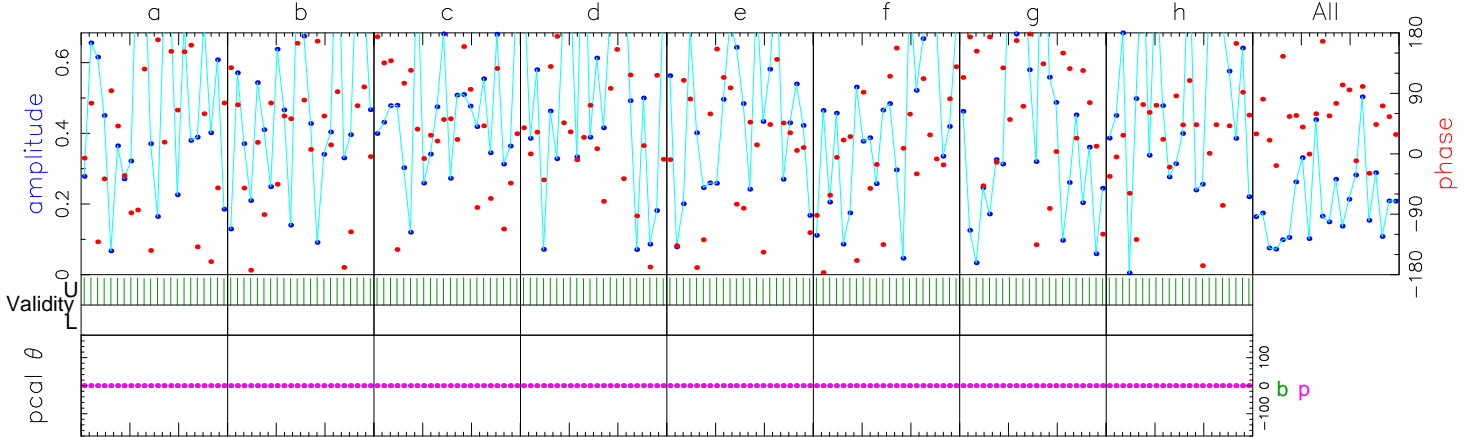


Fringe quality 0

SNR 5.7
Int time 176.465
Amp 0.228
Phase 57.9
PFD 7.6e-01
Delays (us)
SBD 0.867963
MBD 0.000534
Fringe rate (Hz) 0.895877
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153441
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

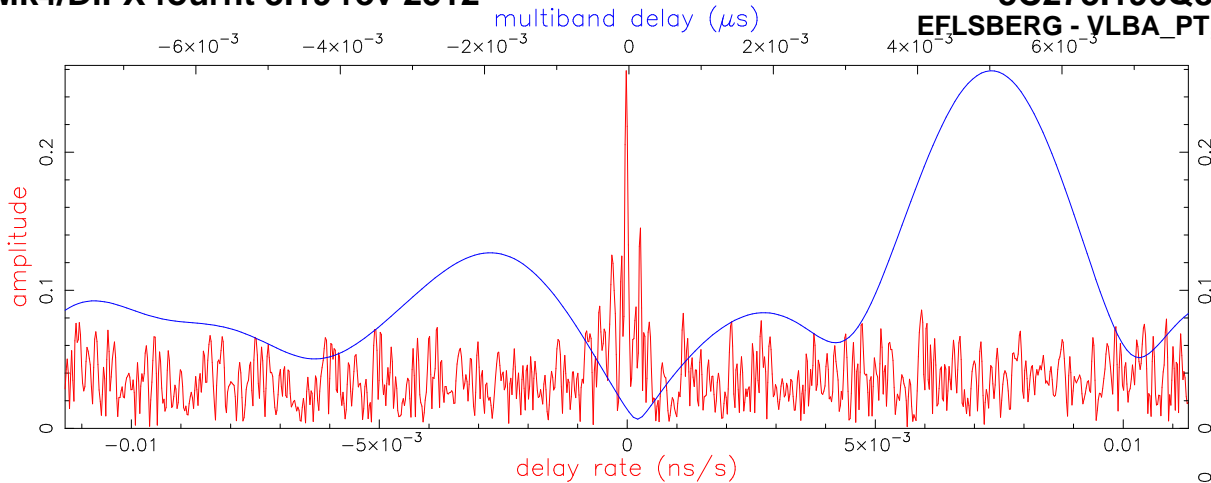


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.86765118900E+03								5.34023E-04	+/- 1.9E-04
Sband delay (usec)	-3.86765876002E+03								8.67963E-01	+/- 1.5E-03
Phase delay (usec)	-3.86852672115E+03								1.86844E-06	+/- 6.5E-07
Delay rate (us/s)	-1.73831967374E-01								1.04002E-05	+/- 6.2E-09
Total phase (deg)			-273.6						57.9	+/- 20.1
Apriori delay (usec)					-3.86852672302E+03					
Apriori clock (usec)					-1.8722689E+01					
Apriori clockrate (us/s)					-2.4600000E-07					
Apriori rate (us/s)					-1.73842367616E-01					
Apriori accel (us/s/s)					2.11532815172E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 47.9 47.1 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.9 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.6 28.4 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.3 49.6 Inc. frq. avg. 0.222 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 95.6 el 7.6 pa -41.7 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1007.515 1659.012 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bp.W.61.196Q8V

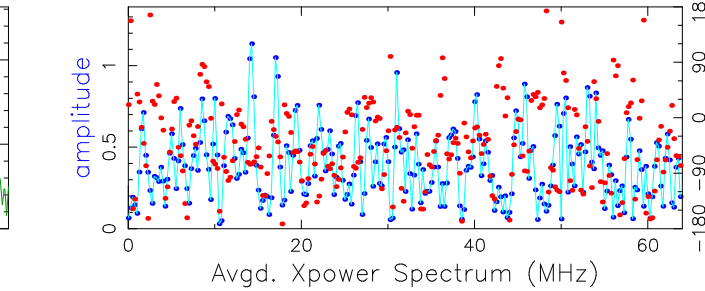
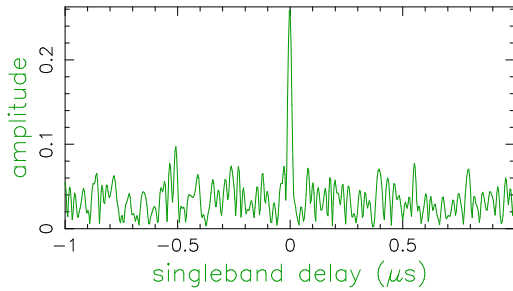
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Bp
EFLSBERG - VLBA_PT, fgroup W, pol RR



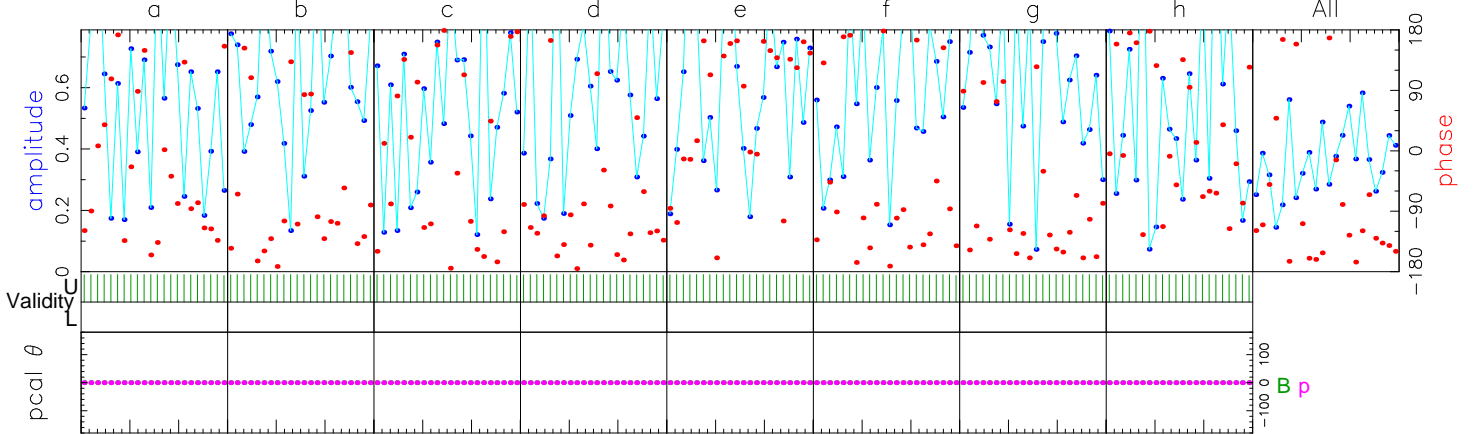
Fringe quality 9

SNR 9.6
Int time 179.602
Amp 0.263
Phase -132.1
PFD 1.2e-13
Delays (us)
SBD -0.002269
MBD 0.005043
Fringe rate (Hz)
-0.001341
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153441
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.7	-125.7	-164.8	-121.7	141.0	-131.4	-140.7	-72.6		-132.1
	0.2	0.4	0.3	0.4	0.2	0.4	0.3	0.2		0.3
	172.1	255.8	256.1	256.4	185.5	257.2	257.3	127.8		256.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
B	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	3.17352872816E+03		Apriori delay (usec)		3.17352368527E+03		Resid mbdelay (usec)		5.04289E-03	+/- 1.1E-04
Sband delay (usec)	3.17352141627E+03		Apriori clock (usec)		-4.2874489E+00		Resid sbdelay (usec)		-2.26900E-03	+/- 8.9E-04
Phase delay (usec)	3.17352368101E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		-4.26086E-06	+/- 3.8E-07
Delay rate (us/s)	-1.90874859350E+00		Apriori rate (us/s)		-1.90874857793E+00		Resid rate (us/s)		-1.55727E-08	+/- 3.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.61014407280E-05		Resid phase (deg)		-132.1	+/- 11.9

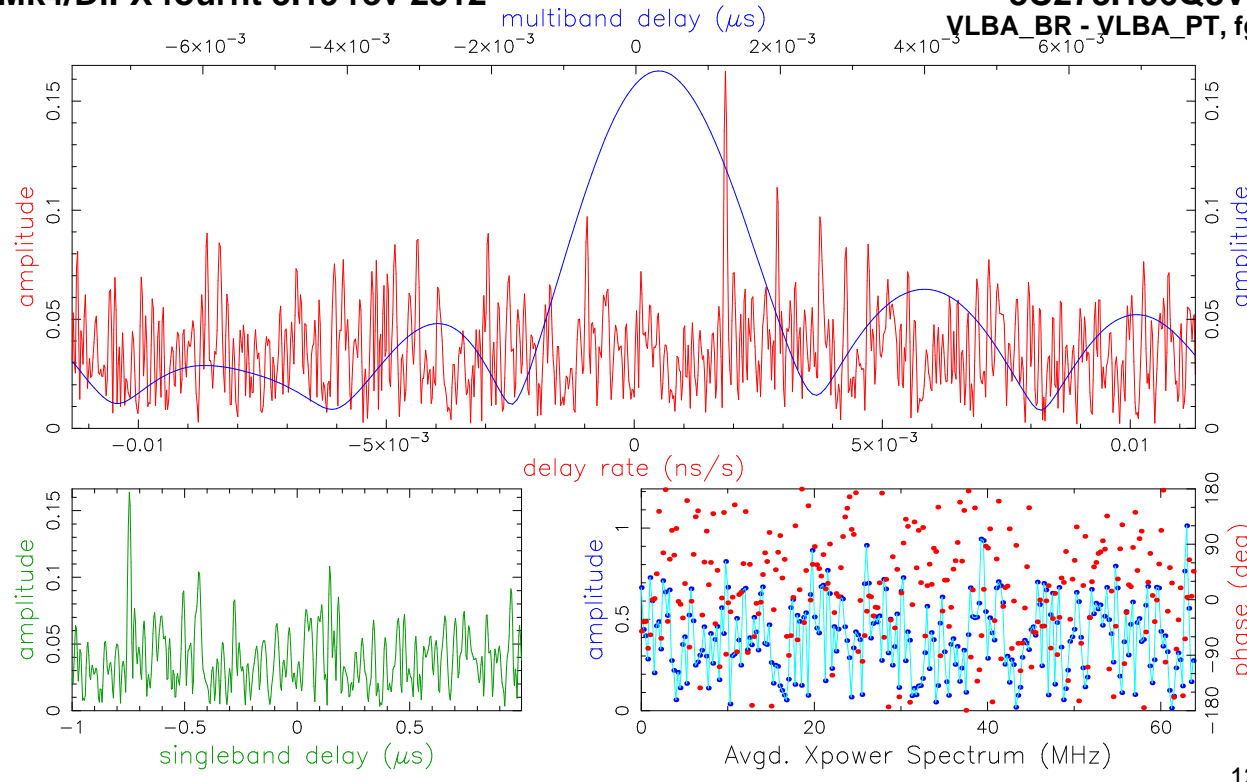
	RMS	Theor.	Amplitude	0.263 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.8	27.9	Search (1024X32)	0.252	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	57.3	48.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	49.2	16.8	Inc. seg. avg.	0.325	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	42.1	29.4	Inc. frq. avg.	0.297	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 234.2 el 28.0 pa 31.1 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10930.153 1796.754 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Bp.W.65.196Q8V

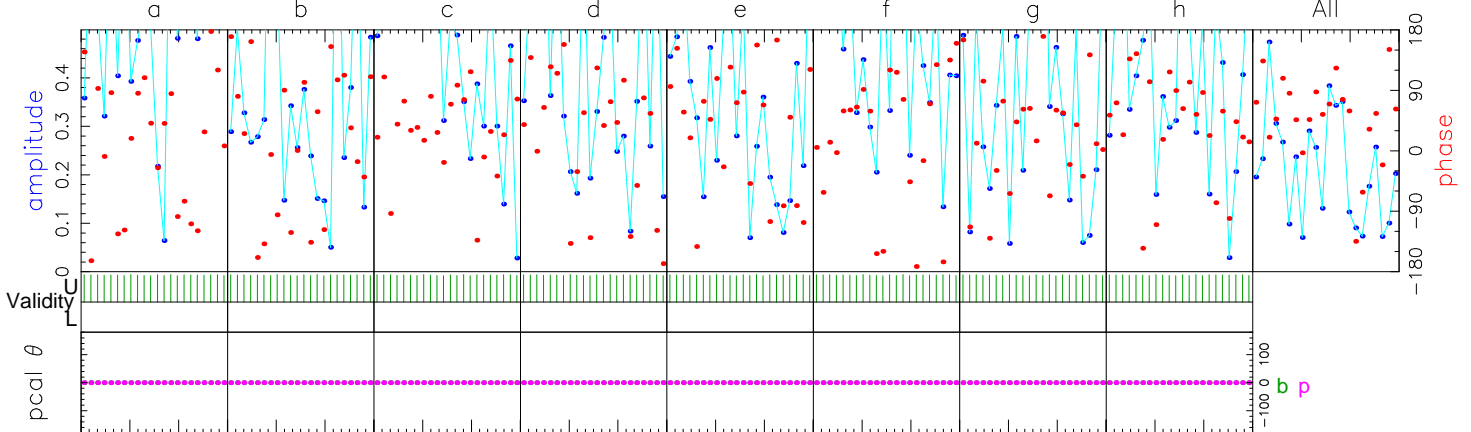
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bp
VLBA_BR - VLBA_PT, fgroup W, pol LR



Fringe quality 0
SNR 6.0
Int time 176.465
Amp 0.166
Phase 66.5
PFD 2.5e-01
Delays (us)
SBD -0.745212
MBD 0.000367
Fringe rate (Hz)
0.158483
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153443
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

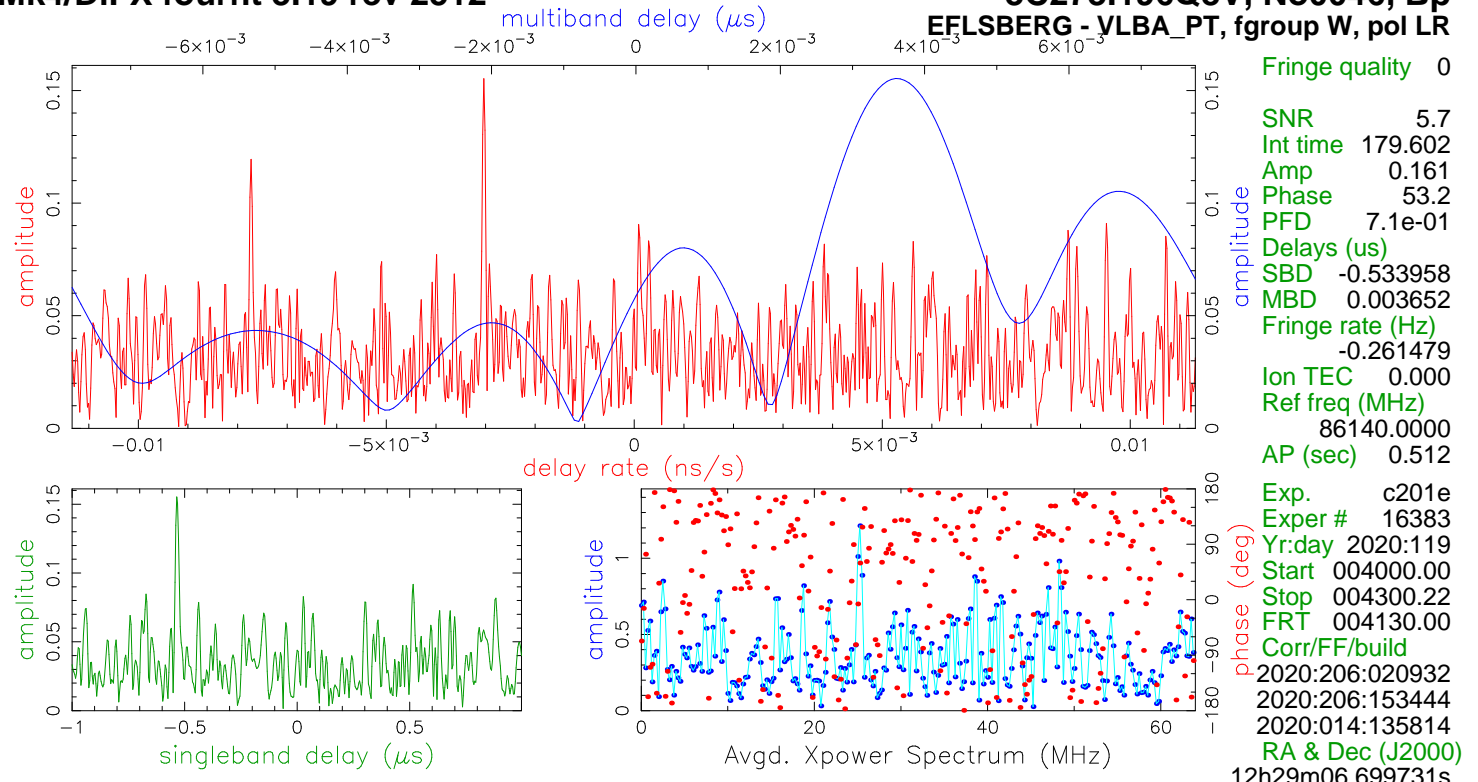


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.86927635590E+03									
Sband delay (usec)	-3.86927193502E+03									
Phase delay (usec)	-3.86852672087E+03									
Delay rate (us/s)	-1.73840527785E-01									
Total phase (deg)			-265.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									66.5	+/- 19.2
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

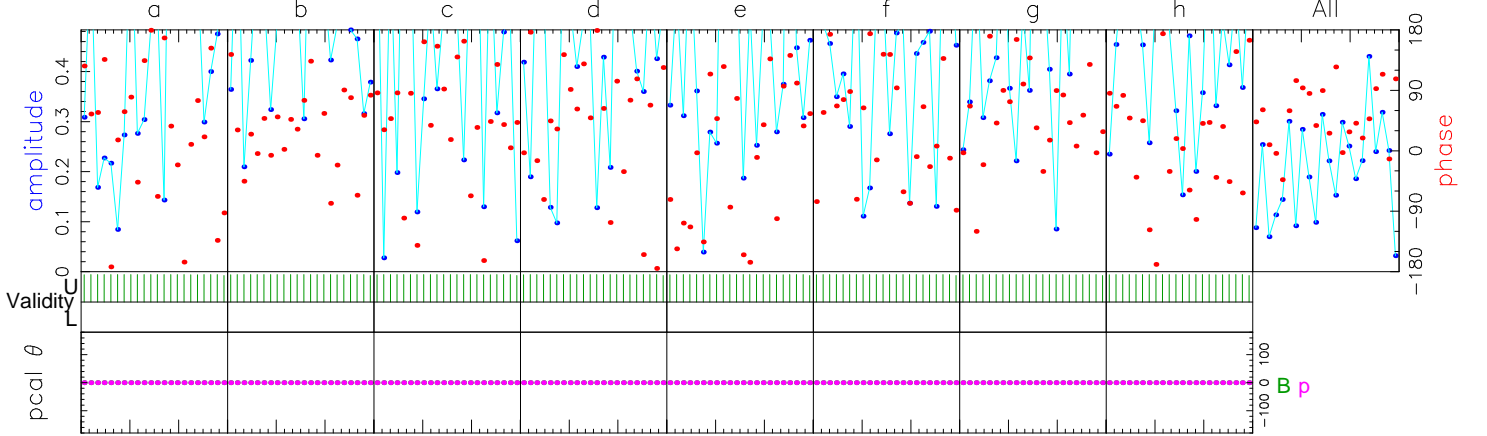
ph/seg (deg) 59.2 45.0 Search (1024X32) 0.161 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 74.5 78.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 22.4 27.1 Inc. seg. avg. 0.166 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 43.9 47.3 Inc. frq. avg. 0.155 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 95.6 el 7.6 pa -41.7 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1007.515 1659.012 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bp.W.74.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Bp
EFLSBERG - VLBA_PT, fgroup W, pol LR



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.17299608766E+03				3.17352368527E+03			Resid mbdelay (usec)	3.65239E-03 +/- 1.9E-04
Sband delay (usec)		3.17298972677E+03				-4.2874489E+00			Resid sbdelay (usec)	-5.33958E-01 +/- 1.5E-03
Phase delay (usec)		3.17352368699E+03				-4.0399999E-07			Resid phdelay (usec)	1.71643E-06 +/- 6.4E-07
Delay rate (us/s)		-1.90875161345E+00				-1.90874857793E+00			Resid rate (us/s)	-3.03552E-06 +/- 6.2E-09
Total phase (deg)			143.0						Resid phase (deg)	53.2 +/- 20.0

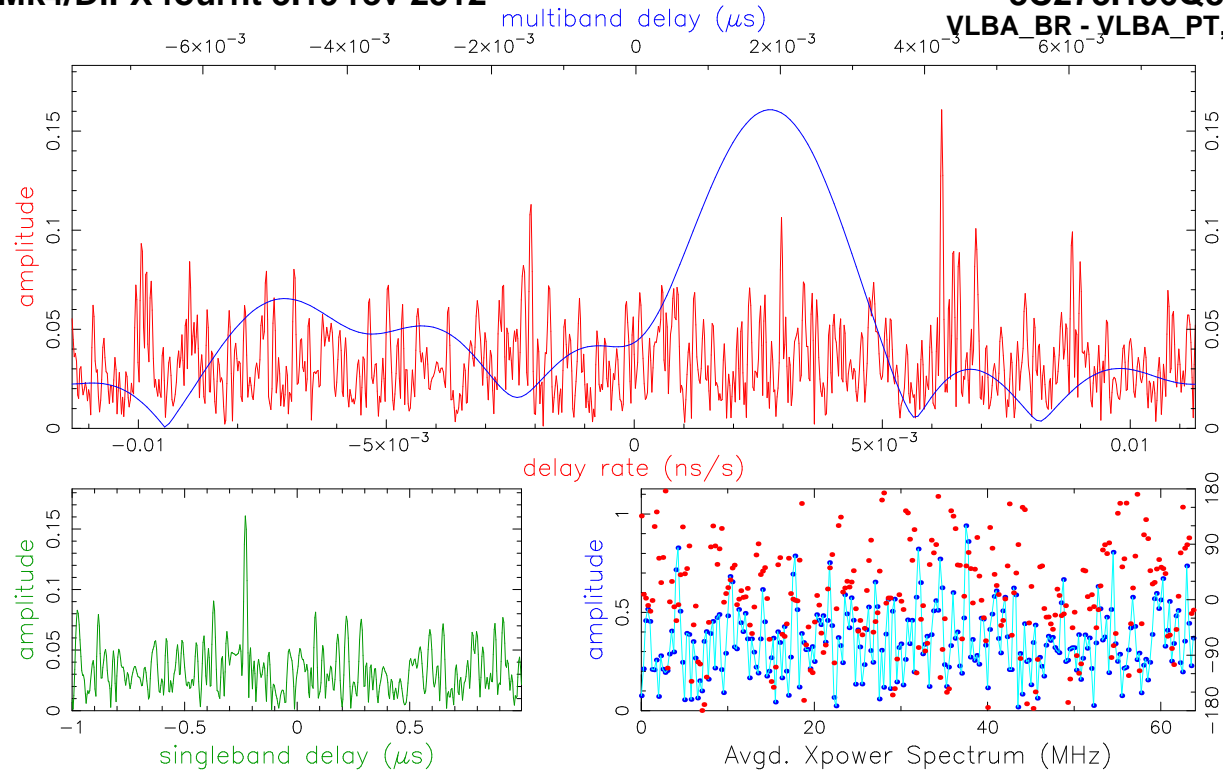
	RMS	Theor.	Amplitude	0.161 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	45.2	46.9	Search (1024X32)	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	70.0	81.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	41.0	28.3	Inc. seg. avg.	0.160	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	60.9	49.3	Inc. frq. avg.	0.162	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 234.2 el 28.0 pa 31.1 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10930.153 1796.754 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Bp.W.78.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bp
VLBA_BR - VLBA_PT, fgroup W, pol RL

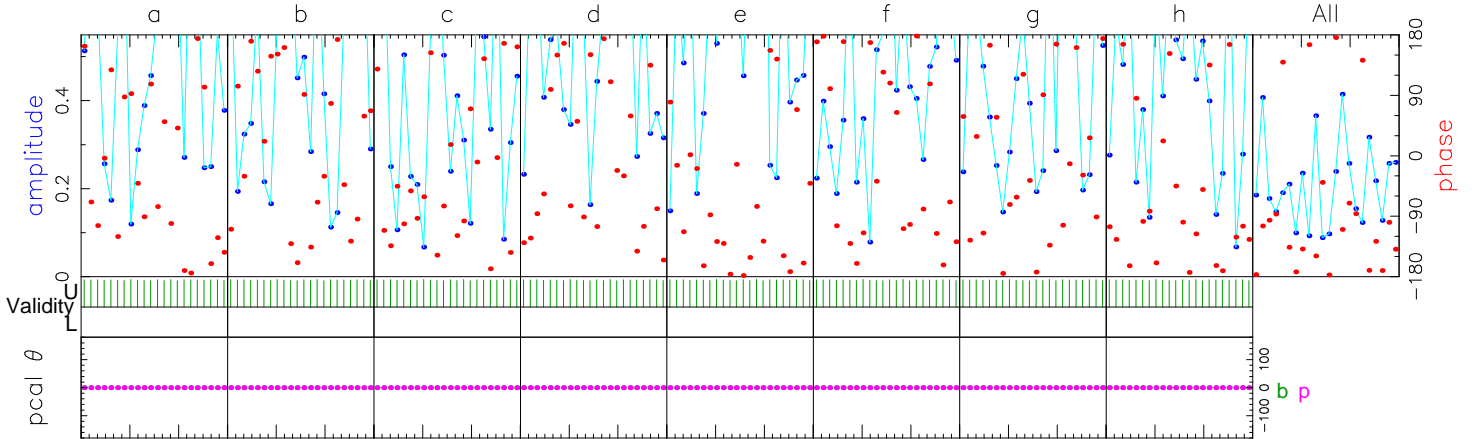


Fringe quality 0

SNR 5.9
Int time 176.465
Amp 0.183
Phase -134.7
PFD 4.4e-01
Delays (us)
SBD -0.229725
MBD 0.001880
Fringe rate (Hz) 0.534653
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153445
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

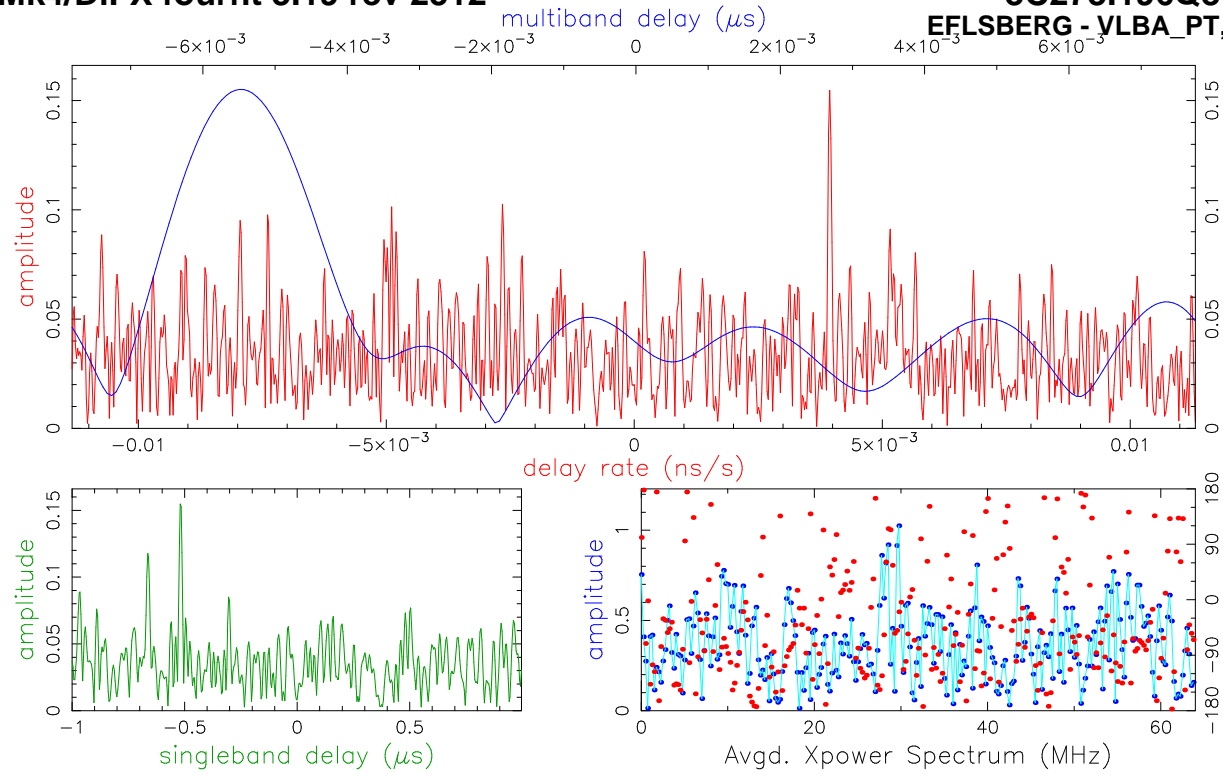


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.4	-153.3	-126.5	-113.4	-118.7	-154.4	-117.9	-146.6	Phase	-134.7
	0.1	0.1	0.2	0.1	0.3	0.2	0.2	0.3	Ampl.	0.2
	405.7	432.5	377.2	111.3	199.3	328.9	250.6	326.8	Sbd box	198.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.86875921809E+03		Apriori delay (usec)		-3.86852672302E+03		Resid mbdelay (usec)		1.87993E-03	+/- 1.9E-04
Sband delay (usec)	-3.86875644852E+03		Apriori clock (usec)		-1.8722689E+01		Resid sbdelay (usec)		-2.29725E-01	+/- 1.5E-03
Phase delay (usec)	-3.86852672736E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-4.34475E-06	+/- 6.3E-07
Delay rate (us/s)	-1.73836160821E-01		Apriori rate (us/s)		-1.73842367616E-01		Resid rate (us/s)		6.20679E-06	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		2.11532815172E-05		Resid phase (deg)		-134.7	+/- 19.5

	RMS	Theor.	Amplitude	0.183 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.8	45.8	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	67.1	80.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	18.2	27.6	Inc. seg. avg.	0.182	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.7	48.2	Inc. frq. avg.	0.169	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

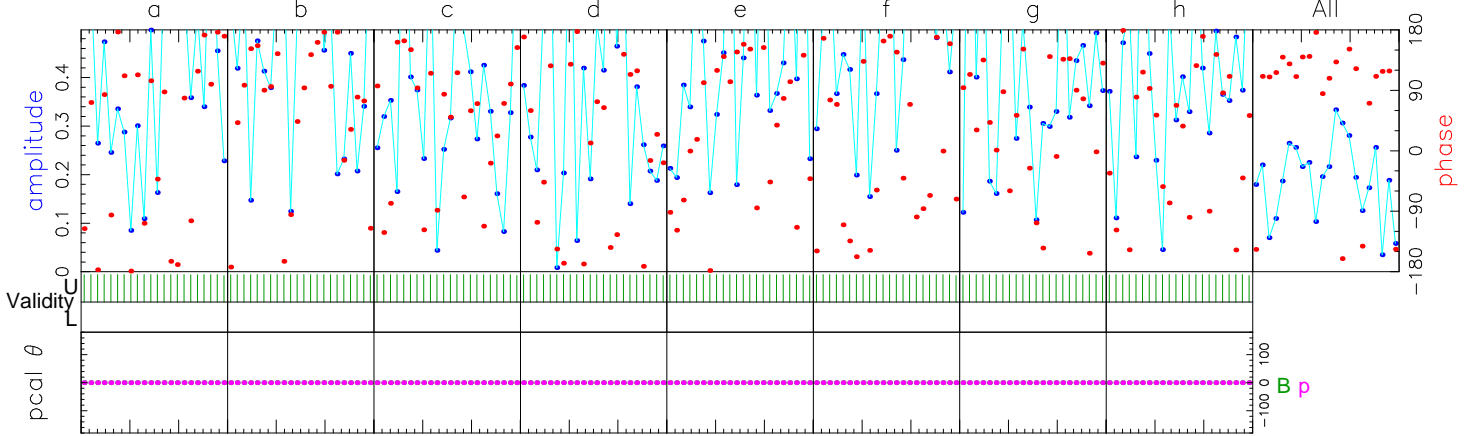
b: az 95.6 el 7.6 pa -41.7 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1007.515 1659.012 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bp.W.85.196Q8V



Fringe quality 0
 SNR 5.8
 Int time 179.602
 Amp 0.166
 Phase 133.5
 PFD 5.9e-01
 Delays (us)
 SBD -0.517822
 MBD -0.005395
 Fringe rate (Hz)
 0.339790
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153446
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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



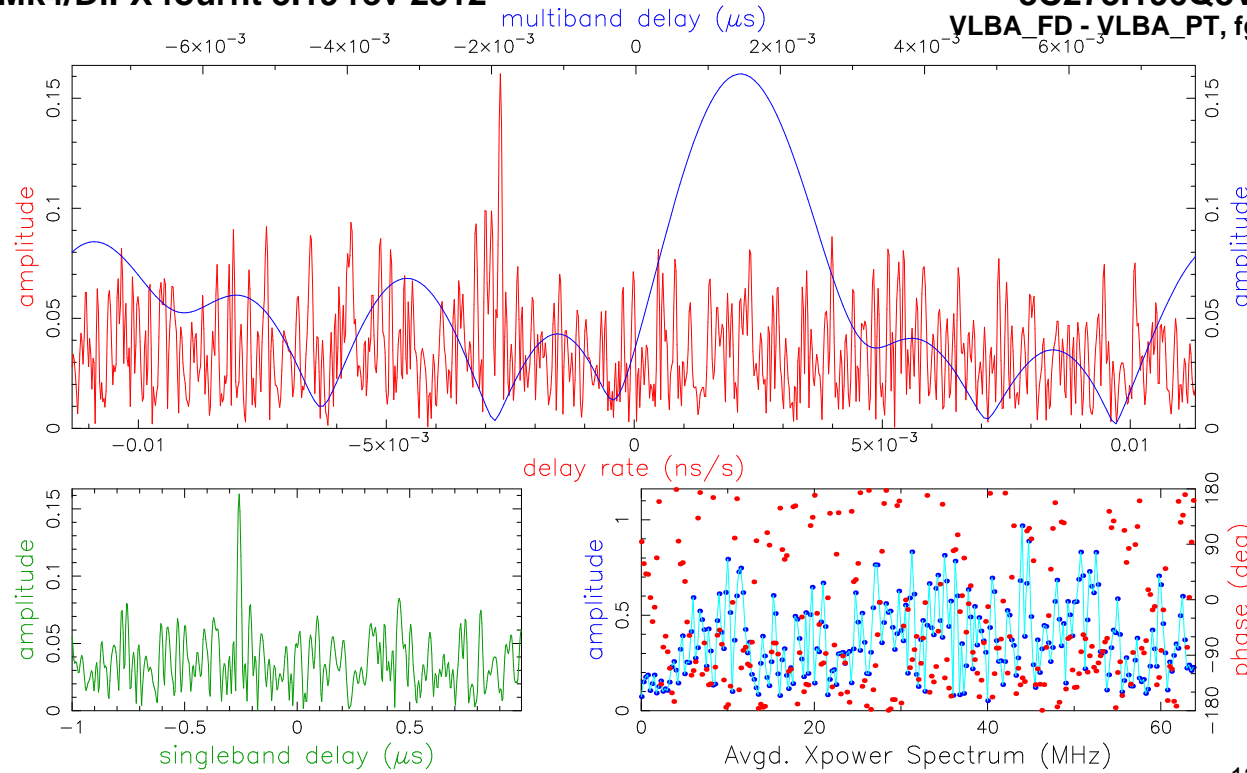
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	142.8	127.6	128.2	146.8	125.8	-158.7	102.6	123.8	Phase	133.5
	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	Ampl.	0.2
	117.1	17.2	495.5	86.6	256.2	35.7	38.9	191.6	Sbd box	124.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.17300266514E+03		Apriori delay (usec)		3.17352368527E+03		Resid mbdelay (usec)		-5.39513E-03	+/- 1.9E-04
Sband delay (usec)	3.17300586302E+03		Apriori clock (usec)		-4.2874489E+00		Resid sbdelay (usec)		-5.17822E-01	+/- 1.5E-03
Phase delay (usec)	3.17352368958E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		4.30410E-06	+/- 6.4E-07
Delay rate (us/s)	-1.90874463331E+00		Apriori rate (us/s)		-1.90874857793E+00		Resid rate (us/s)		3.94462E-06	+/- 6.1E-09
Total phase (deg)	223.2		Apriori accel (us/s/s)		-1.61014407280E-05		Resid phase (deg)		133.5	+/- 19.8

	RMS	Theor.	Amplitude	0.166 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	40.6	46.4	Search (1024X32)	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	53.7	81.0	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	31.7	28.0	Inc. seg. avg.	0.151	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00
amp/frq (%)	28.5	48.9	Inc. frq. avg.	0.158					

B: az 234.2 el 28.0 pa 31.1 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10930.153 1796.754 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Bp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Bp.W.95.196Q8V

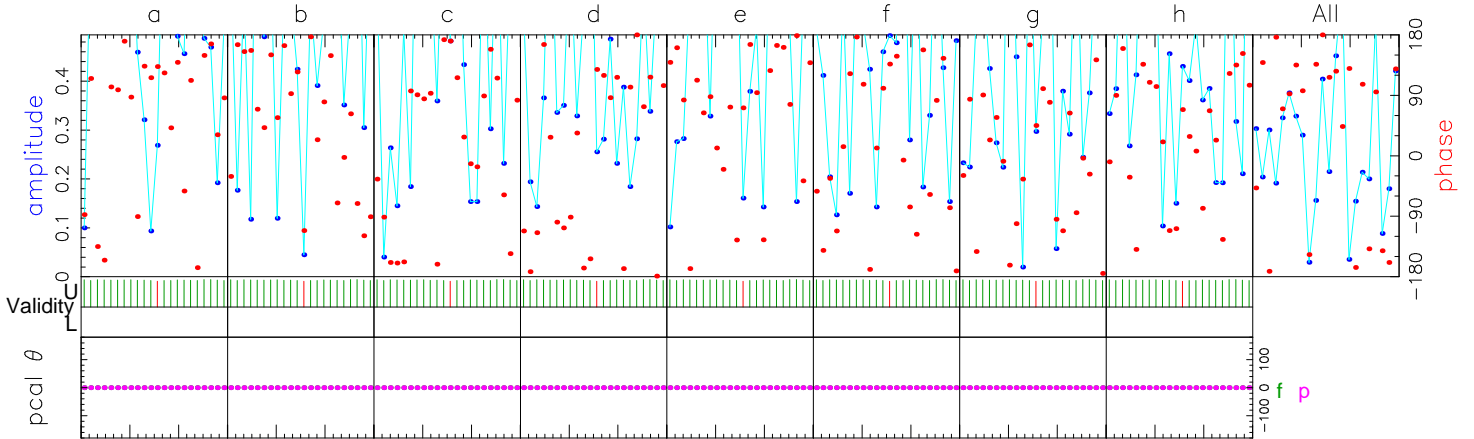
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, fp
VLBA_FD - VLBA_PT, fgroup W, pol LR



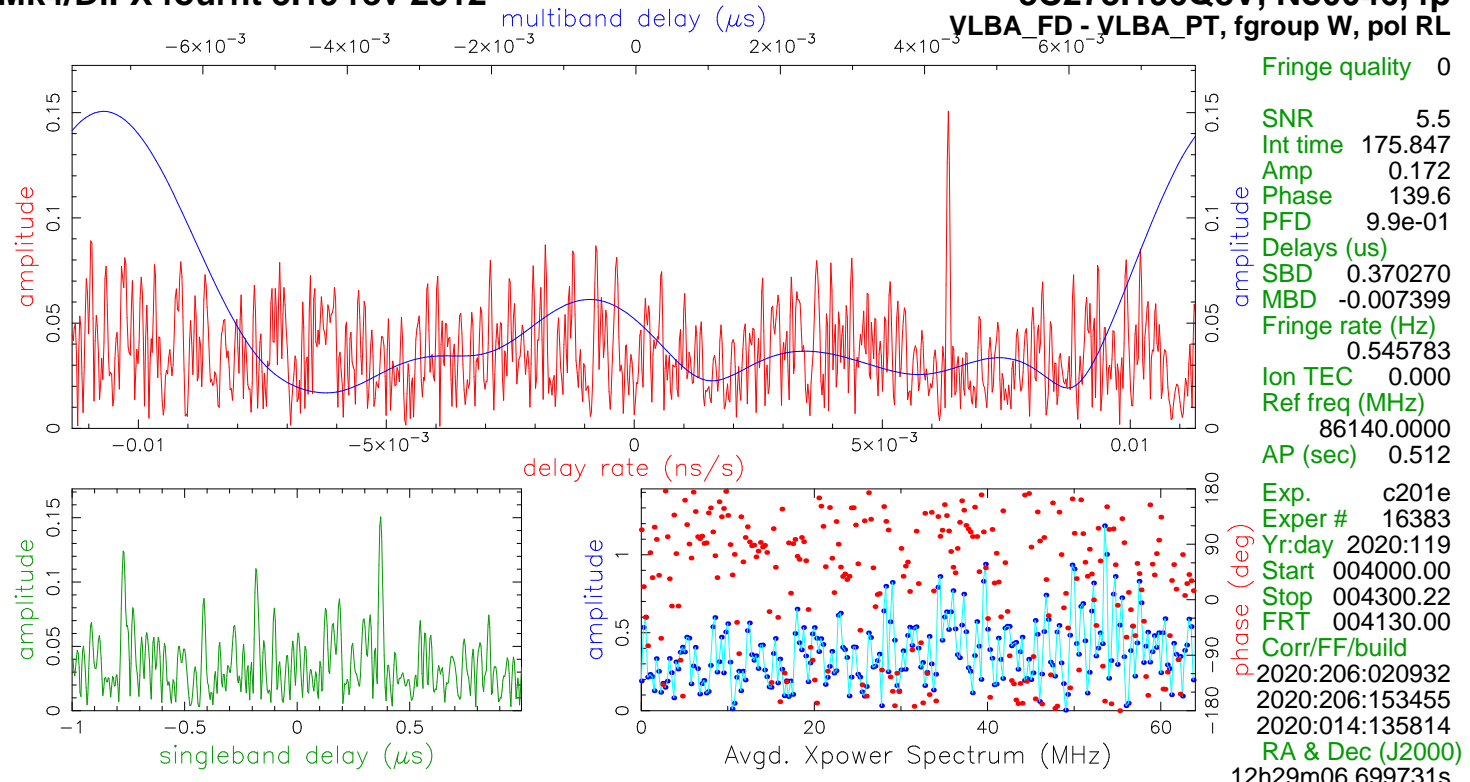
Fringe quality 0
SNR 5.8
Int time 175.847
Amp 0.165
Phase 124.6
PFD 4.8e-01
Delays (us)
SBD -0.257969
MBD 0.001442
Fringe rate (Hz)
-0.232691
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153453
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

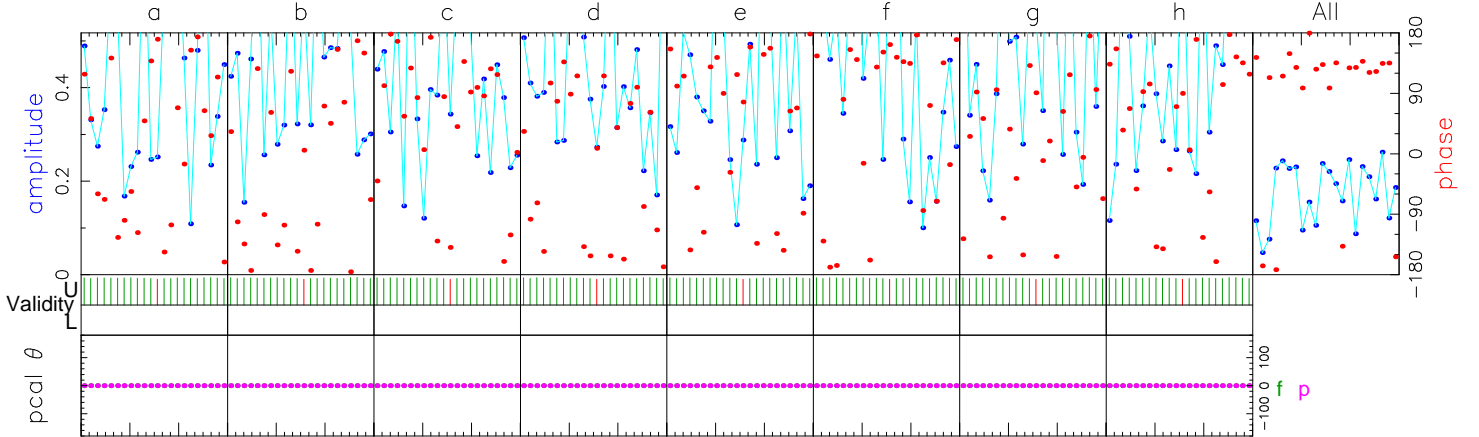


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.43529664503E+03			1.43556082762E+03				1.44241E-03	+/- 1.9E-04
Sband delay (usec)		1.43530285837E+03			-1.3385912E+01				-2.57969E-01	+/- 1.5E-03
Phase delay (usec)		1.43556083164E+03			-9.4999990E-08				4.01689E-06	+/- 6.3E-07
Delay rate (us/s)		1.09203321901E-02			1.09230335022E-02				-2.70131E-06	+/- 6.1E-09
Total phase (deg)			13.5		-7.91061379006E-06				124.6	+/- 19.6
pcal mode:					MANUAL, MANUAL					PC period (AP's) 5, 5
pcal rate:					0.000E+00, 0.000E+00 (us/s)					sb window (us) -1.000 1.000
Bits/sample:					2x2					SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate (MSamp/s):					128					dr window (ns/s) -0.011 0.011
Data rate (Mb/s):					2048					ion window (TEC) 0.00 0.00
nlags:					256					t_cohere infinite

ph/seg (deg) 64.0 46.0 Amplitude 0.165 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 113.1 80.3 Search (1024X32) 0.156 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.1 27.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.9 48.4 Inc. seg. avg. 0.210 Sample rate (MSamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 101.6 el 22.3 pa -57.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -66.772 -499.233 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fp.W.135.196Q8V simultaneous interpolator

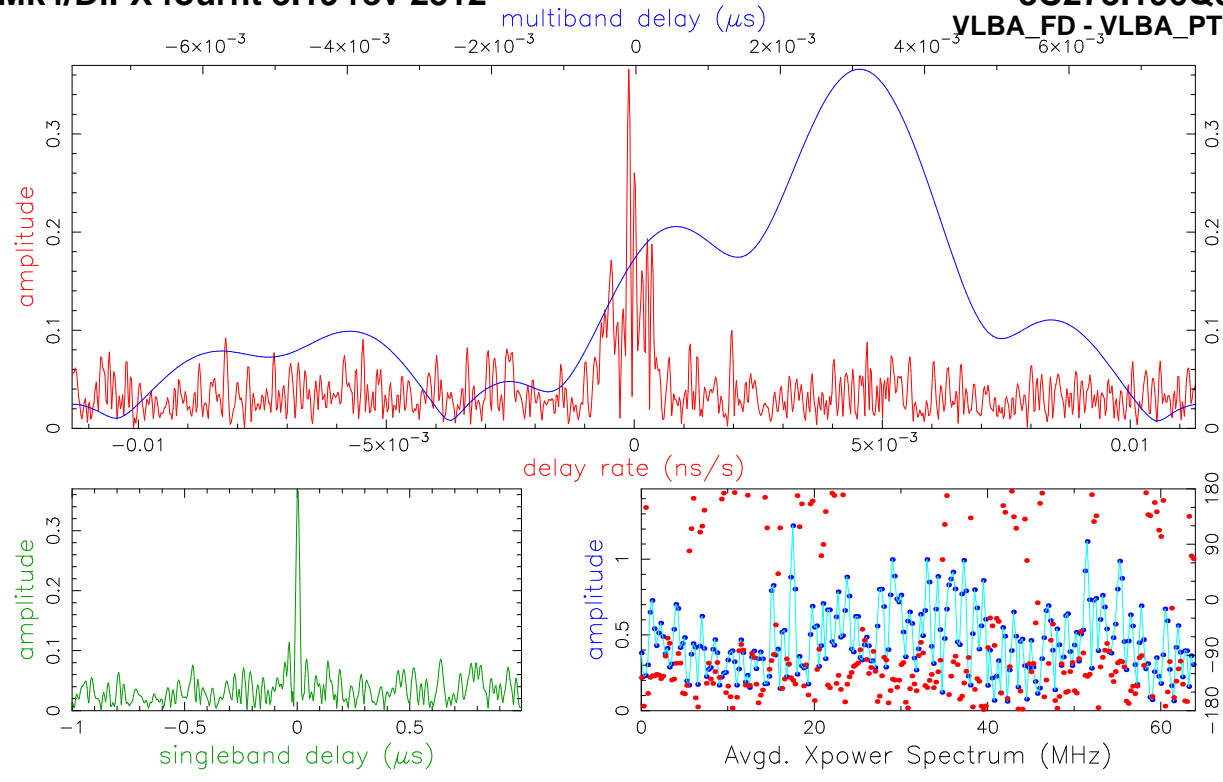


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



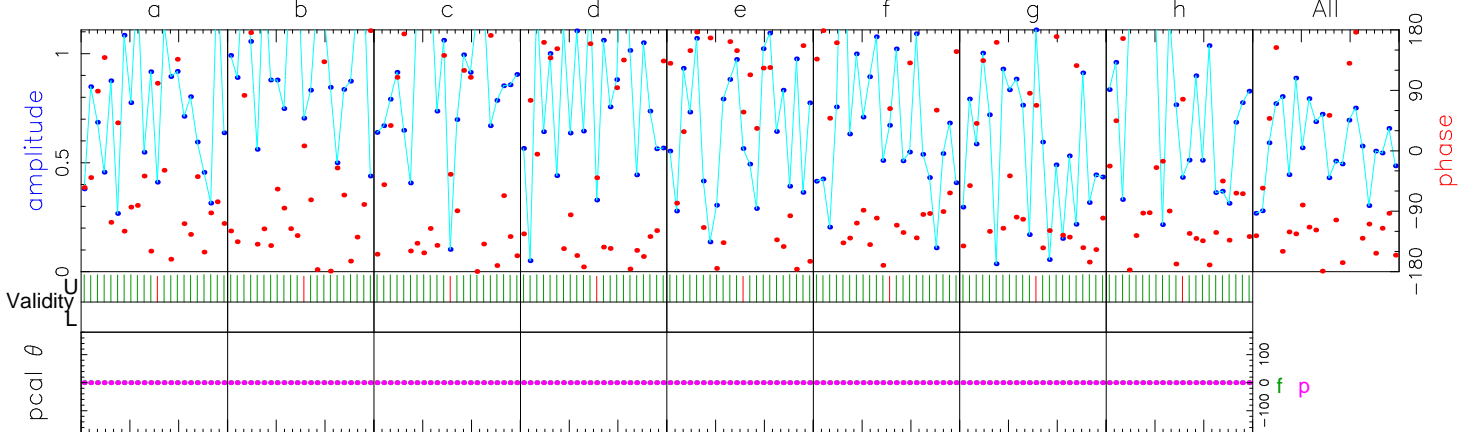
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
127.4	149.1	120.0	142.9	148.9	157.5	67.7	127.5	127.5	Phase	139.6
0.1	0.1	0.2	0.2	0.2	0.4	0.0	0.2	0.2	Ampl.	0.2
407.4	186.7	291.4	300.0	68.0	352.7	61.5	266.1	266.1	Sbd box	351.8
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
f W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
p W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.43592842904E+03		Apriori delay (usec)	1.43556082762E+03		Resid mbdelay (usec)	-7.39858E-03	+/-	2.0E-04	
Sband delay (usec)	1.43593109712E+03		Apriori clock (usec)	-1.3385912E+01		Resid sbdelay (usec)	3.70270E-01	+/-	1.6E-03	
Phase delay (usec)	1.43556083212E+03		Apriori clockrate (us/s)	-9.4999990E-08		Resid phdelay (usec)	4.50190E-06	+/-	6.7E-07	
Delay rate (us/s)	1.09293694967E-02		Apriori rate (us/s)	1.09230335022E-02		Resid rate (us/s)	6.33599E-06	+/-	6.5E-09	
Total phase (deg)		28.5	Apriori accel (us/s/s)	-7.91061379006E-06		Resid phase (deg)	139.6	+/-	20.9	

ph/seg (deg) 33.1 49.0 Search (1024X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 44.9 85.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.5 29.6 Inc. seg. avg. 0.146 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.0 51.6 Inc. frq. avg. 0.160 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 101.6 el 22.3 pa -57.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -66.772 -499.233 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fp.W.152.196Q8V



Fringe quality 9
SNR 13.4
Int time 175.847
Amp 0.370
Phase -140.3
PFD 1.5e-32
Delays (us)
SBD 0.002550
MBD 0.003077
Fringe rate (Hz)
-0.010051
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153443
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

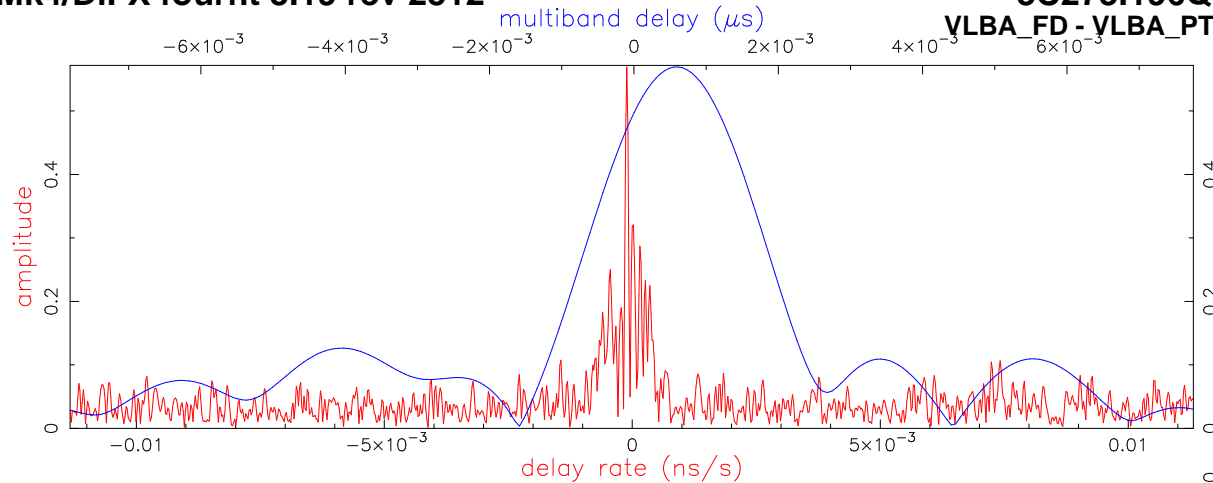


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-98.2	-128.9	-159.3	-173.3	164.4	-129.5	-126.7	-105.5	Phase	-140.3
	0.4	0.6	0.5	0.5	0.4	0.4	0.2	0.4	Ampl.	0.4
	257.9	257.1	257.6	257.6	258.7	257.7	256.9	259.0	Sbd box	257.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.43556390481E+03	Apriori delay (usec)	1.43556082762E+03	Resid mbdelay (usec)	3.07719E-03	+/-	8.1E-05
Sband delay (usec)	1.43556337787E+03	Apriori clock (usec)	-1.3385912E+01	Resid sbdelay (usec)	2.55025E-03	+/-	6.4E-04
Phase delay (usec)	1.43556082310E+03	Apriori clockrate (us/s)	-9.4999990E-08	Resid phdelay (usec)	-4.52432E-06	+/-	2.8E-07
Delay rate (us/s)	1.09229168226E-02	Apriori rate (us/s)	1.09230335022E-02	Resid rate (us/s)	-1.16680E-07	+/-	2.6E-09
Total phase (deg)	108.6	Apriori accel (us/s/s)	-7.91061379006E-06	Resid phase (deg)	-140.3	+/-	8.5

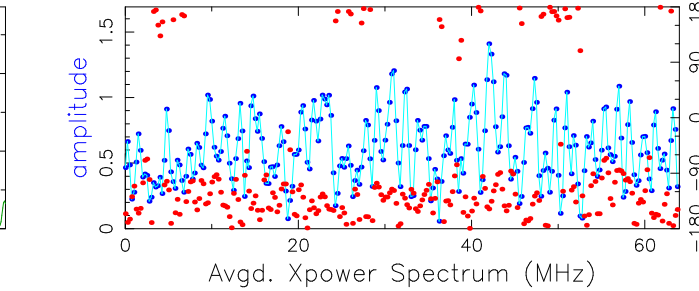
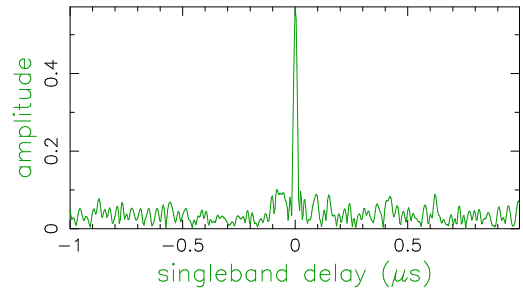
ph/seg (deg)	64.6	Theor.	20.0	Amplitude	0.370 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	73.8	Search (1024X32)	0.357	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	36.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	28.9	Inc. seg. avg.	0.550	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.415	Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00	

f: az 101.6 el 22.3 pa -57.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -66.772 -499.233 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fp.W.75.196Q8V



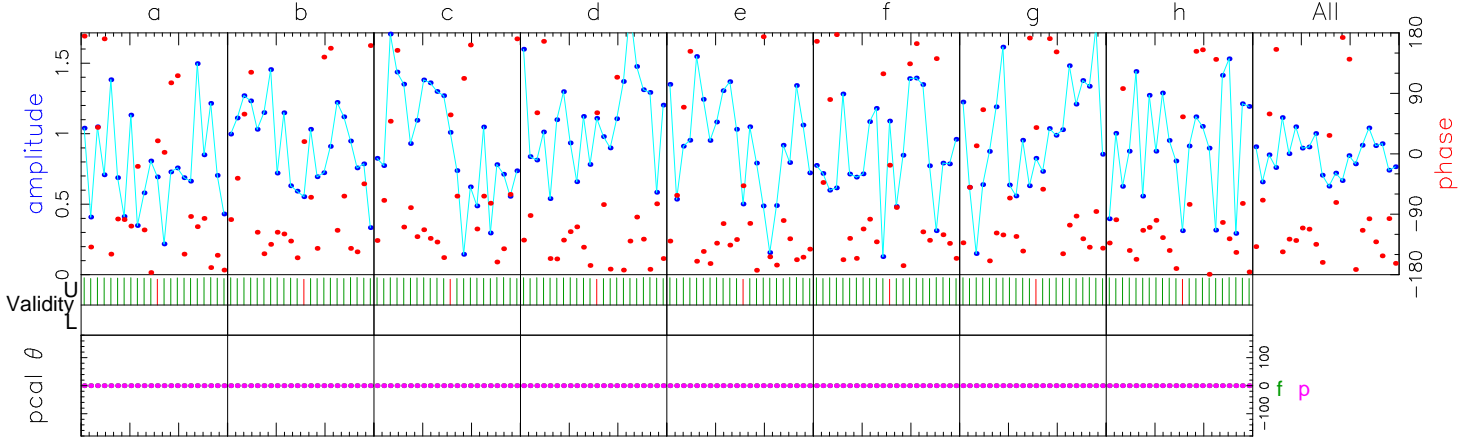
Fringe quality 9

SNR 20.7
Int time 175.847
Amp 0.572
Phase -135.5
PFD 0.0e+00
Delays (us)
SBD 0.000830
MBD 0.000606
Fringe rate (Hz)
-0.010072
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153447
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

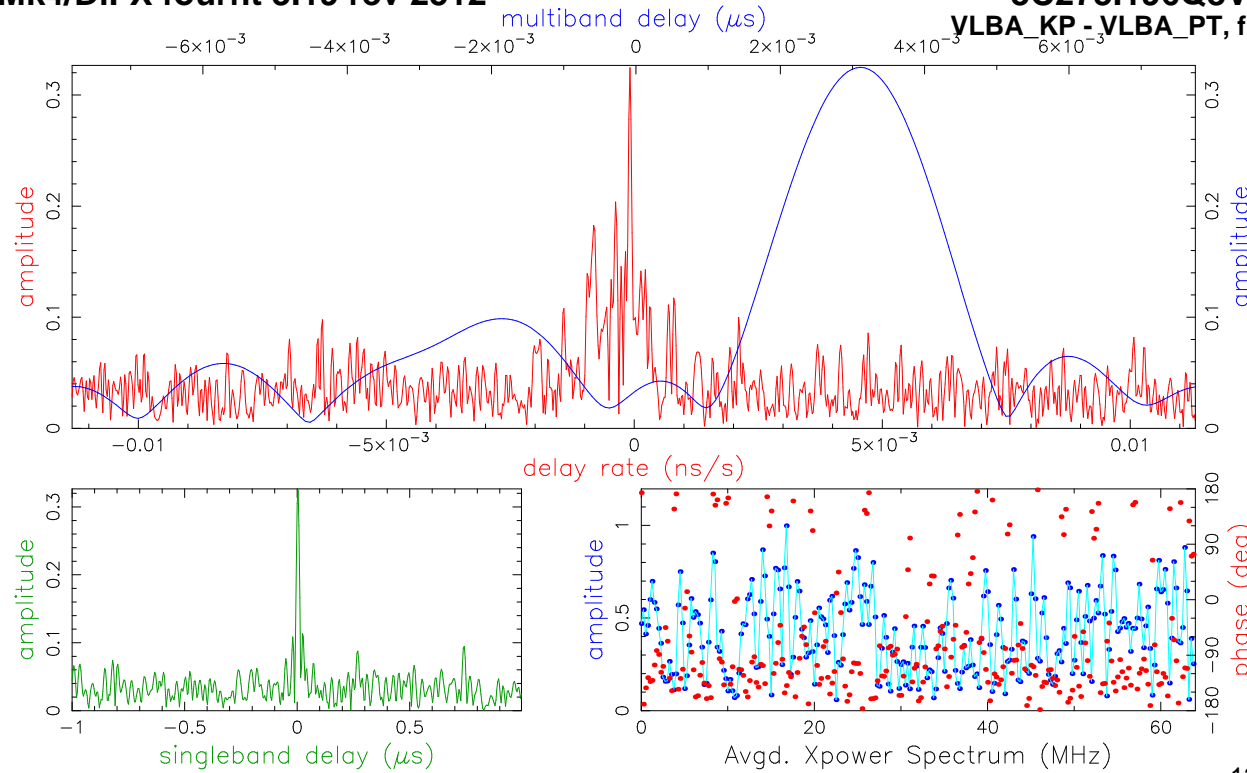


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-142.0	-124.0	-123.8	-142.0	-140.8	-145.9	-124.6	-137.9	Phase	-135.5
	0.4	0.5	0.5	0.7	0.7	0.5	0.7	0.7	Ampl.	0.6
	257.3	257.1	257.2	257.3	257.0	257.1	257.2	257.4	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.43556143337E+03		Apriori delay (usec)	1.43556082762E+03		Resid mbdelay (usec)	6.05752E-04	+/-	5.2E-05
Sband delay (usec)		1.43556165787E+03		Apriori clock (usec)	-1.3385912E+01		Resid sbdelay (usec)	8.30250E-04	+/-	4.2E-04
Phase delay (usec)		1.43556082325E+03		Apriori clockrate (us/s)	-9.4999990E-08		Resid phdelay (usec)	-4.36954E-06	+/-	1.8E-07
Delay rate (us/s)		1.09229165746E-02		Apriori rate (us/s)	1.09230335022E-02		Resid rate (us/s)	-1.16928E-07	+/-	1.7E-09
Total phase (deg)			113.4	Apriori accel (us/s/s)	-7.91061379006E-06		Resid phase (deg)	-135.5	+/-	5.5

	RMS	Theor.	Amplitude	0.572 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	61.8	13.0	Search (1024X32)	0.557	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	53.7	22.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	10.1	7.8	Inc. seg. avg.	0.829	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	21.2	13.6	Inc. frq. avg.	0.571	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

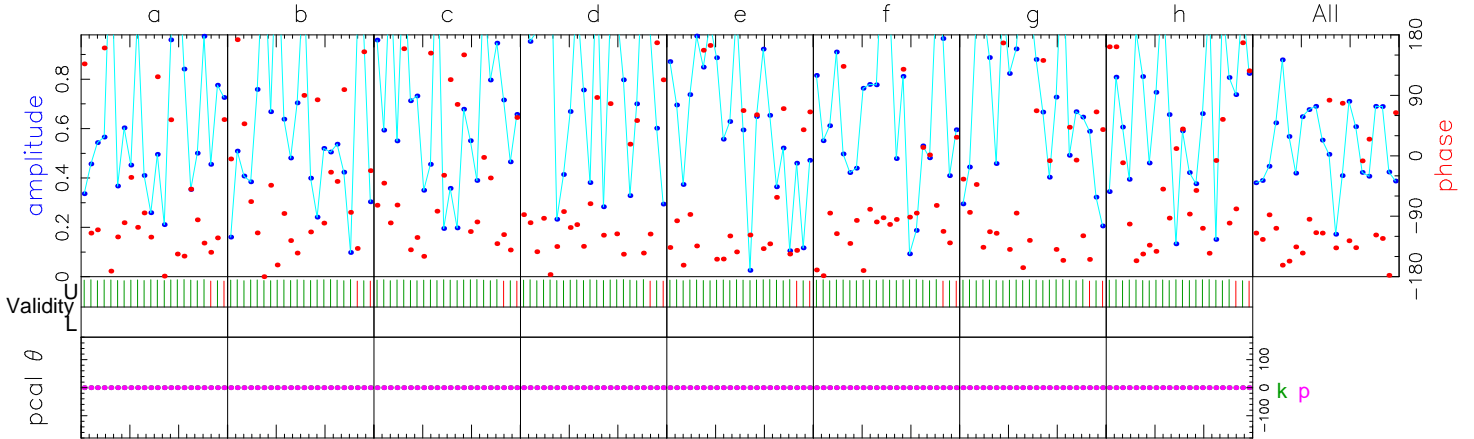
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, kp
VLBA_KP - VLBA_PT, fgroup W, pol LL



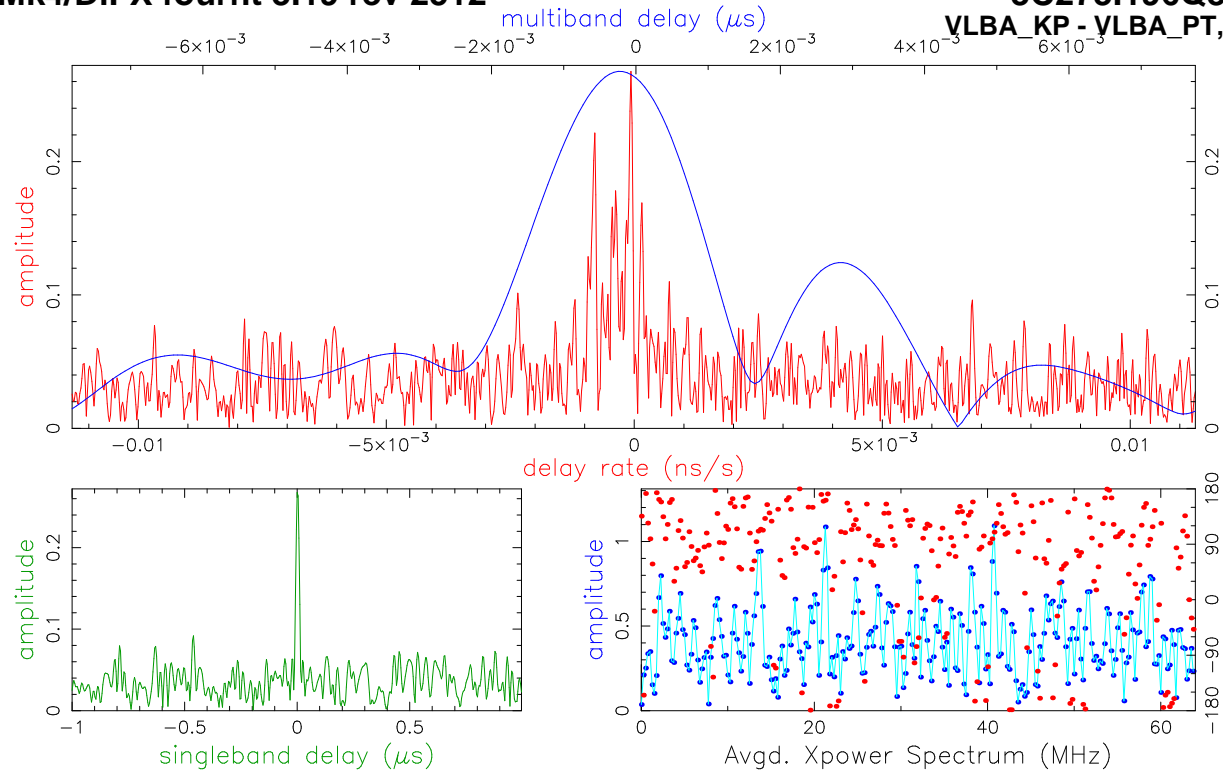
Fringe quality 9
SNR 11.8
Int time 175.488
Amp 0.327
Phase -127.6
PFD 6.7e-24
Delays (us)
SBD 0.002983
MBD 0.003058
Fringe rate (Hz)
-0.007247
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153447
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



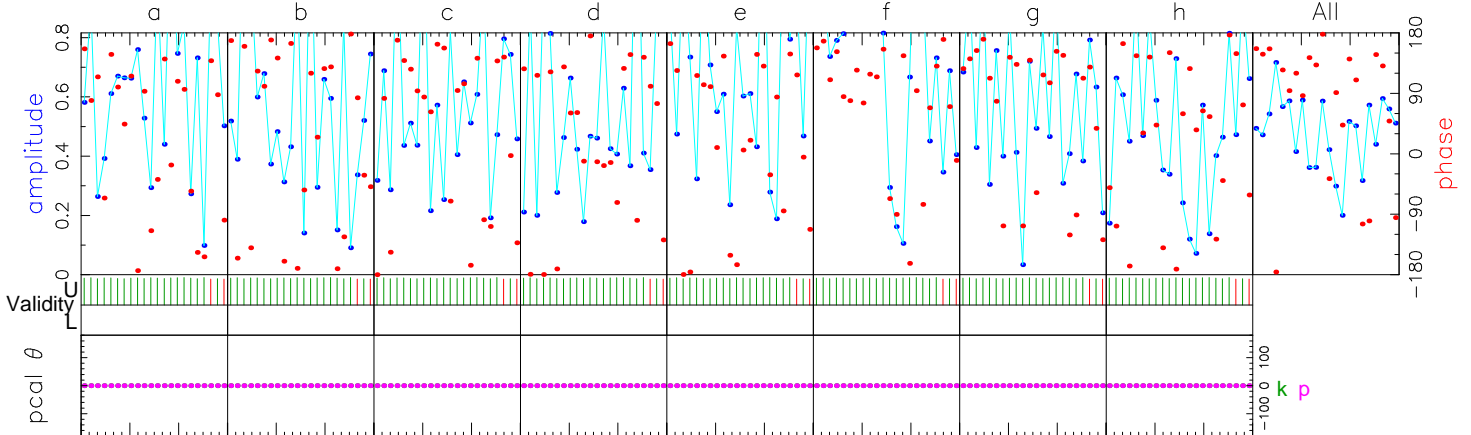
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-135.4	-142.8	-105.7	-128.5	-148.9	-108.4	-130.3	-125.9	Phase	-127.6
	0.3	0.2	0.3	0.4	0.3	0.4	0.3	0.3	Ampl.	0.3
	257.0	424.5	190.9	257.7	257.6	258.2	258.1	257.0	Sbd box	257.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.10041736689E+02		Apriori delay (usec)		-9.10044794959E+02		Resid mbdelay (usec)		3.05827E-03	+/- 9.2E-05
Sband delay (usec)	-9.10041812459E+02		Apriori clock (usec)		-1.7647261E+01		Resid sbdelay (usec)		2.98250E-03	+/- 7.3E-04
Phase delay (usec)	-9.10044799073E+02		Apriori clockrate (us/s)		-1.9859999E-07		Resid phdelay (usec)		-4.11353E-06	+/- 3.1E-07
Delay rate (us/s)	5.88397170744E-02		Apriori rate (us/s)		5.88398012086E-02		Resid rate (us/s)		-8.41341E-08	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		4.61345419716E-06		Resid phase (deg)		-127.6	+/- 9.7

ph/seg (deg) 73.8 22.7 Search (1024X32) 0.319 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.3 39.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.4 13.7 Inc. seg. avg. 0.494 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.9 23.9 Inc. frq. avg. 0.325 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 97.7 el 15.7 pa -57.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -334.881 -291.182 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kp.W.103.196Q8V



Fringe quality 9
SNR 9.9
Int time 175.488
Amp 0.272
Phase 139.1
PFD 1.3e-14
Delays (us)
SBD 0.001631
MBD -0.000195
Fringe rate (Hz)
-0.006630
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153449
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

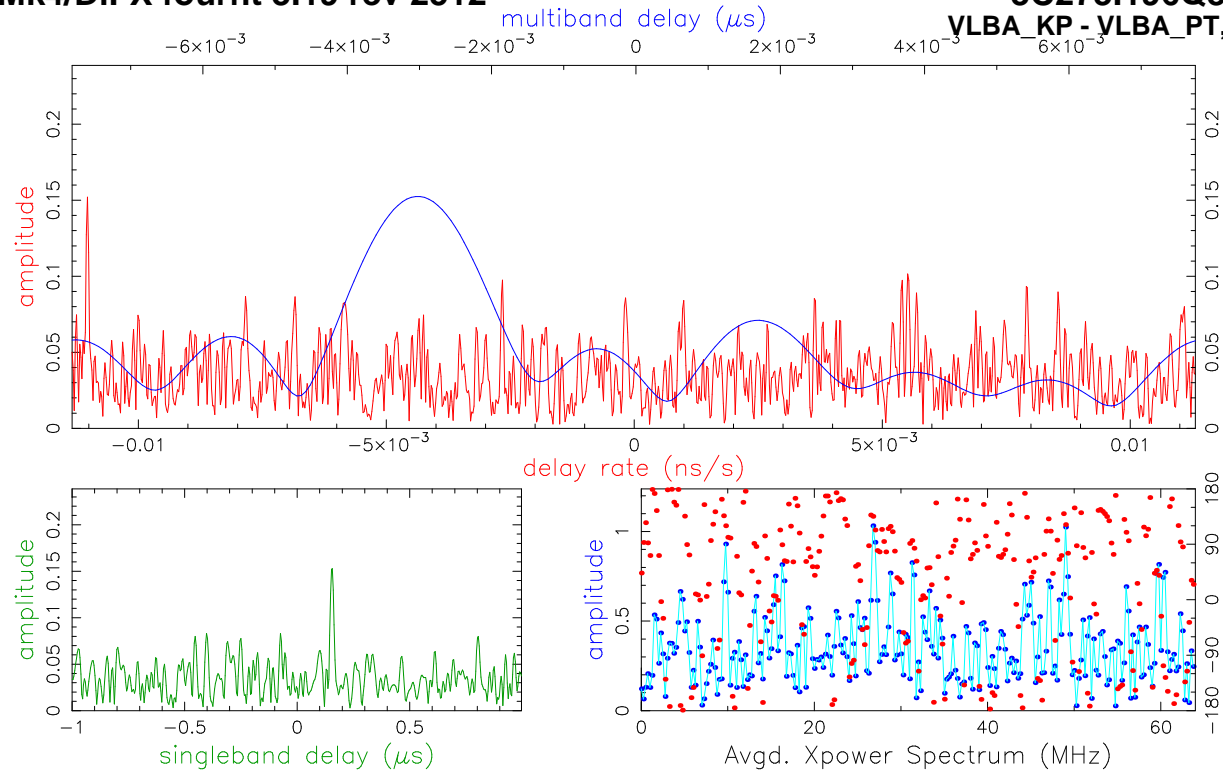


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-9.10044990158E+02									
Sband delay (usec)	-9.10043164209E+02									
Phase delay (usec)	-9.10044790473E+02									
Delay rate (us/s)	5.88397242408E-02									
Total phase (deg)			-90.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	0.272 +/- 0.028									
Search (1024X32)	0.256									
Interp.	0.000									
Inc. seg. avg.	0.434									
Inc. frq. avg.	0.268									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PCal period (AP's) 5, 5										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
Amplitude	0.272 +/- 0.028									
Search (1024X32)	0.256									
Interp.	0.000									
Inc. seg. avg.	0.434									
Inc. frq. avg.	0.268									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

k: az 97.7 el 15.7 pa -57.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -334.881 -291.182 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kp.W.116.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, kp
VLBA_KP - VLBA_PT, fgroup W, pol LR

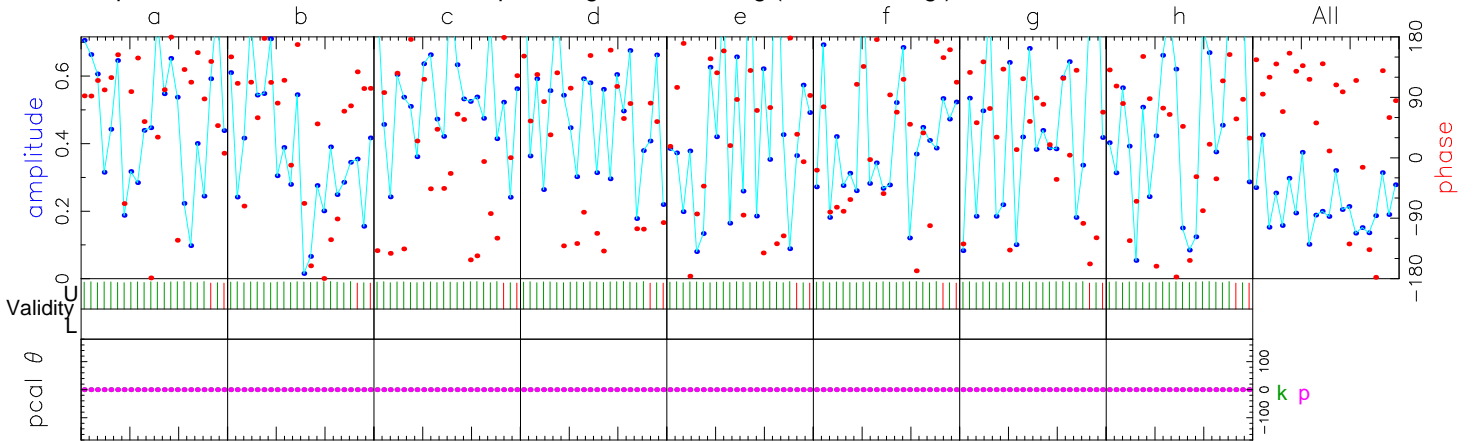


Fringe quality 0

SNR 5.6
Int time 175.488
Amp 0.239
Phase 118.2
PFD 8.7e-01
Delays (us)
SBD 0.154410
MBD -0.002946
Fringe rate (Hz)
-0.951511
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153451
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



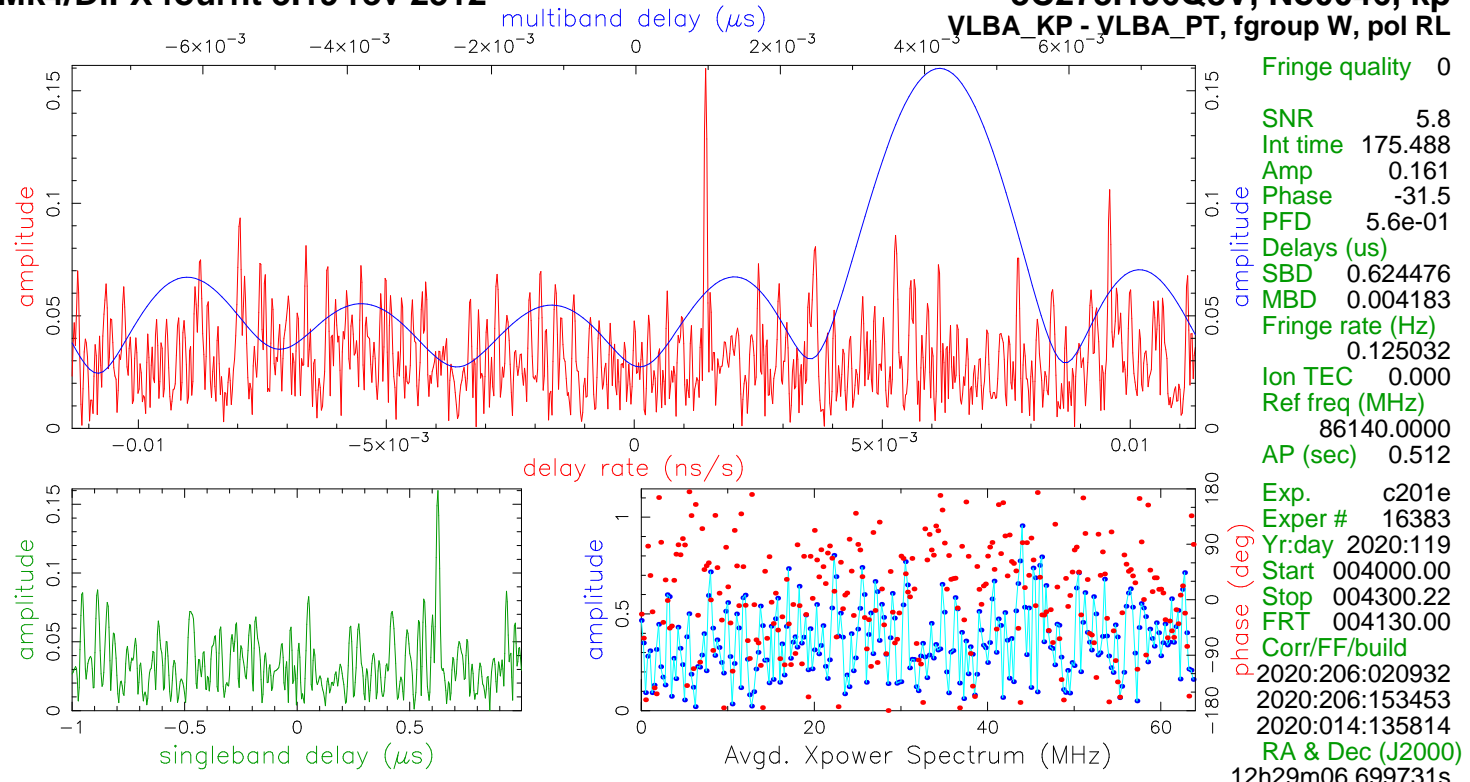
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-9.09891491109E+02									
Sband delay (usec)	-9.09890384459E+02									
Phase delay (usec)	-9.10044791147E+02									
Delay rate (us/s)	5.88287551056E-02									
Total phase (deg)			-111.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Chan ids										
Tracks										
Chan ids										
Tracks										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
Amplitude	0.239	+/- 0.042								
Search (1024X32)	0.151									
Interp.	0.000									
Inc. seg. avg.	0.255									
Inc. frq. avg.	0.220									
PCal period (AP's) 5, 5										
simultaneous interpolator										

k: az 97.7 el 15.7 pa -57.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -334.881 -291.182 simultaneous interpolator

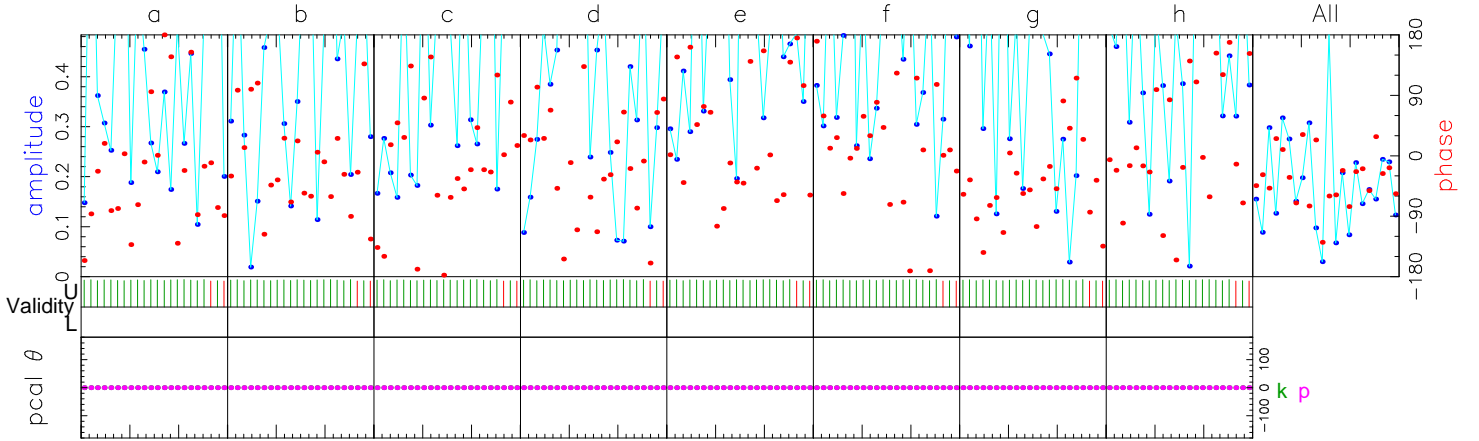
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kp.W.128.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, kp
VLBA_KP - VLBA_PT, fgroup W, pol RL



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

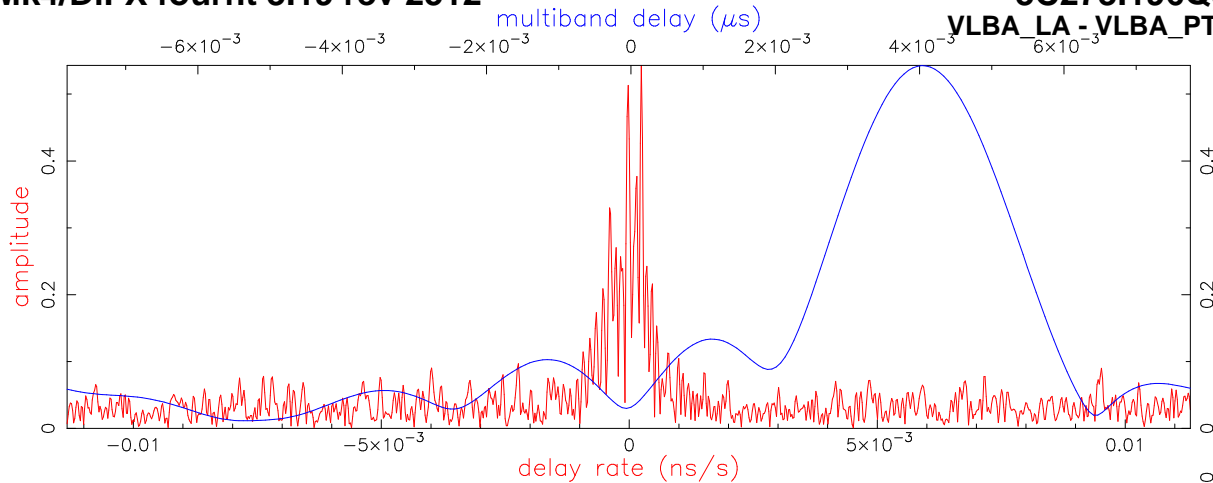


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-58.4	-30.7	-1.1	-21.1	-29.3	18.8	-60.5	-26.1	Phase	-31.5
	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	Ampl.	0.2
	411.8	99.0	449.3	46.9	91.5	394.7	417.6	236.8	Sbd box	416.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.09415611544E+02		Apriori delay (usec)	-9.10044794959E+02	Resid mbdelay (usec)	4.18341E-03	+/-	1.9E-04		
Sband delay (usec)	-9.09420318959E+02		Apriori clock (usec)	-1.7647261E+01	Resid sbdelay (usec)	6.24476E-01	+/-	1.5E-03		
Phase delay (usec)	-9.10044795974E+02		Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	-1.01499E-06	+/-	6.4E-07		
Delay rate (us/s)	5.88412527030E-02		Apriori rate (us/s)	5.88398012086E-02	Resid rate (us/s)	1.45149E-06	+/-	6.1E-09		
Total phase (deg)		-261.1	Apriori accel (us/s/s)	4.61345419716E-06	Resid phase (deg)	-31.5	+/-	19.8		

	RMS	Theor.	Amplitude	0.161 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	39.4	46.3	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	66.1	80.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	29.4	27.9	Inc. seg. avg.	0.144	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	47.9	48.8	Inc. frq. avg.	0.161	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

k: az 97.7 el 15.7 pa -57.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -334.881 -291.182 simultaneous interpolator

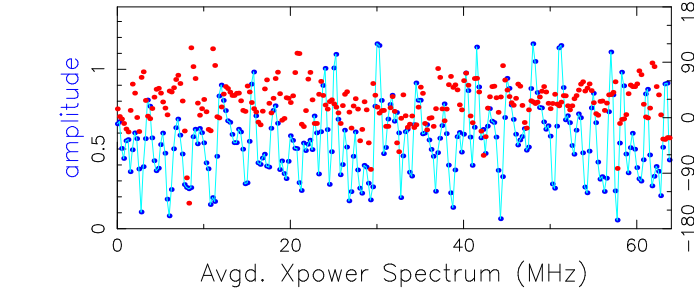
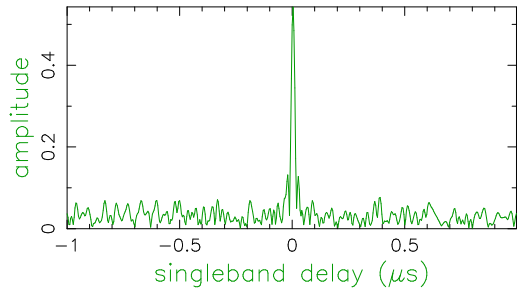
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kp.W.139.196Q8V



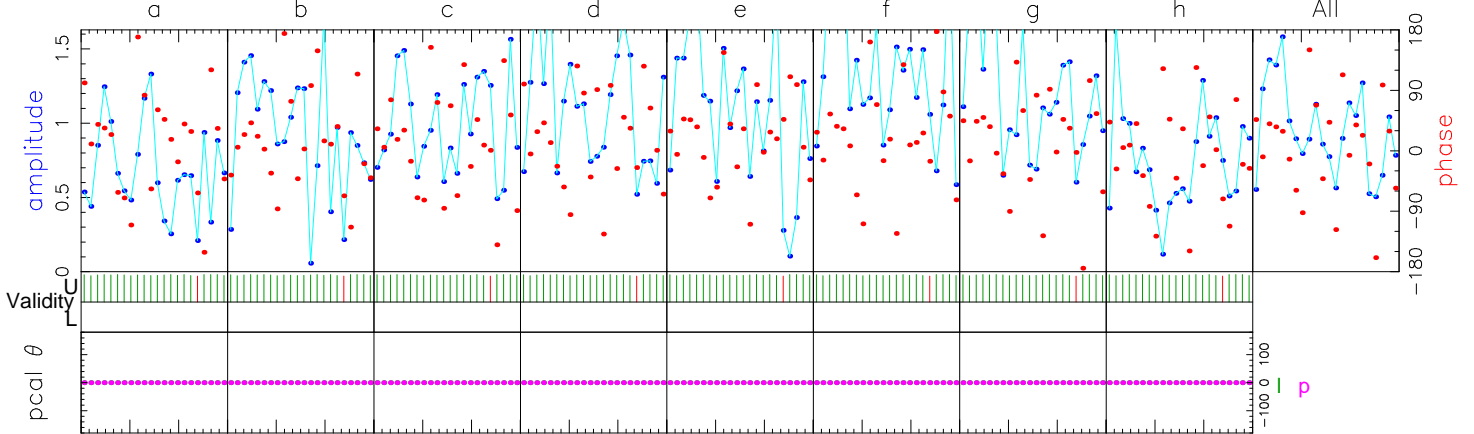
Fringe quality 9

SNR 19.7
Int time 176.792
Amp 0.543
Phase 19.4
PFD 0.0e+00
Delays (us)
SBD 0.003624
MBD 0.004036
Fringe rate (Hz) 0.020745
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153453
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"



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

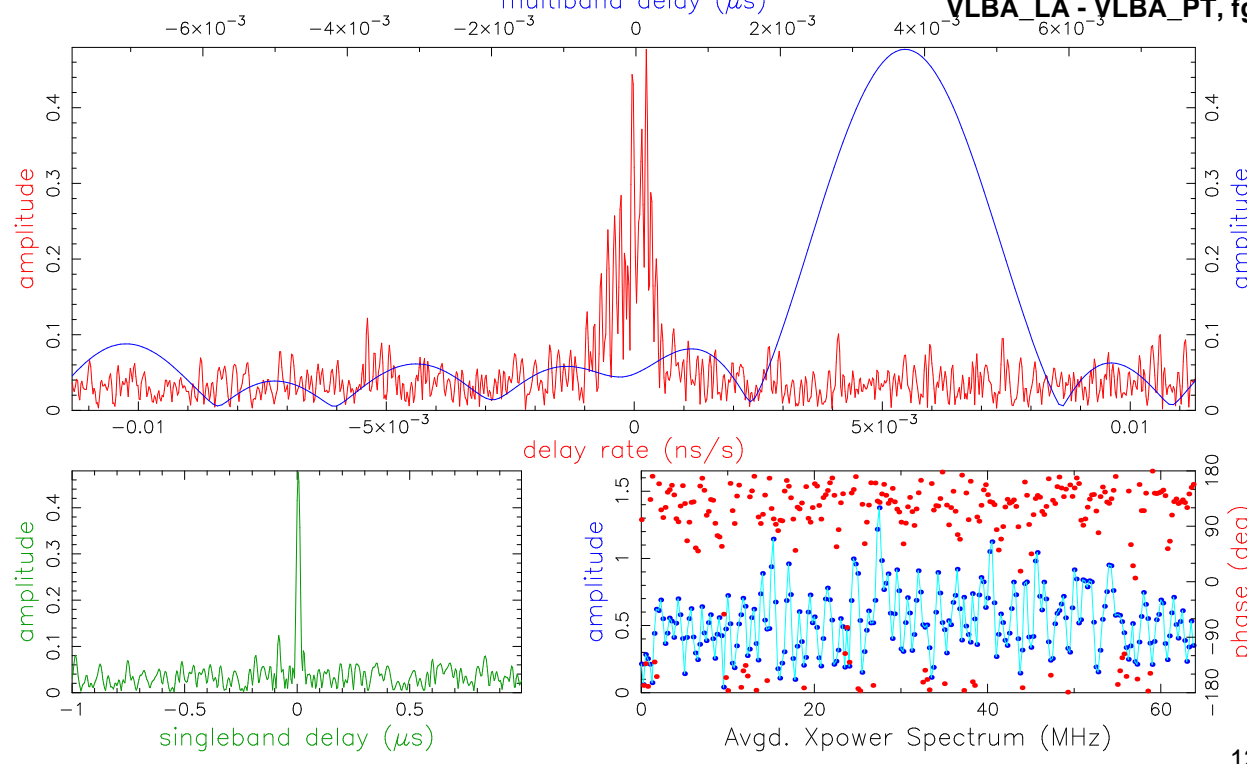


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.03982407966E+02		Apriori delay (usec)		4.03978371607E+02		Resid mbdelay (usec)		4.03636E-03	+/- 5.5E-05
Sband delay (usec)	4.03981995607E+02		Apriori clock (usec)		-2.1041567E+01		Resid sbdelay (usec)		3.62400E-03	+/- 4.4E-04
Phase delay (usec)	4.03978372231E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		6.24265E-07	+/- 1.9E-07
Delay rate (us/s)	-3.68683817812E-02		Apriori rate (us/s)		-3.68686226044E-02		Resid rate (us/s)		2.40823E-07	+/- 1.8E-09
Total phase (deg)	354.2		Apriori accel (us/s/s)		-2.17953771647E-06		Resid phase (deg)		19.4	+/- 5.8

ph/seg (deg) 73.8 13.6 Search (1024X32) 0.537 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 93.6 23.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 14.2 8.2 Inc. seg. avg. 0.928 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 25.8 14.3 Inc. frq. avg. 0.549 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 102.1 el 19.4 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 210.199 180.258 simultaneous interpolator

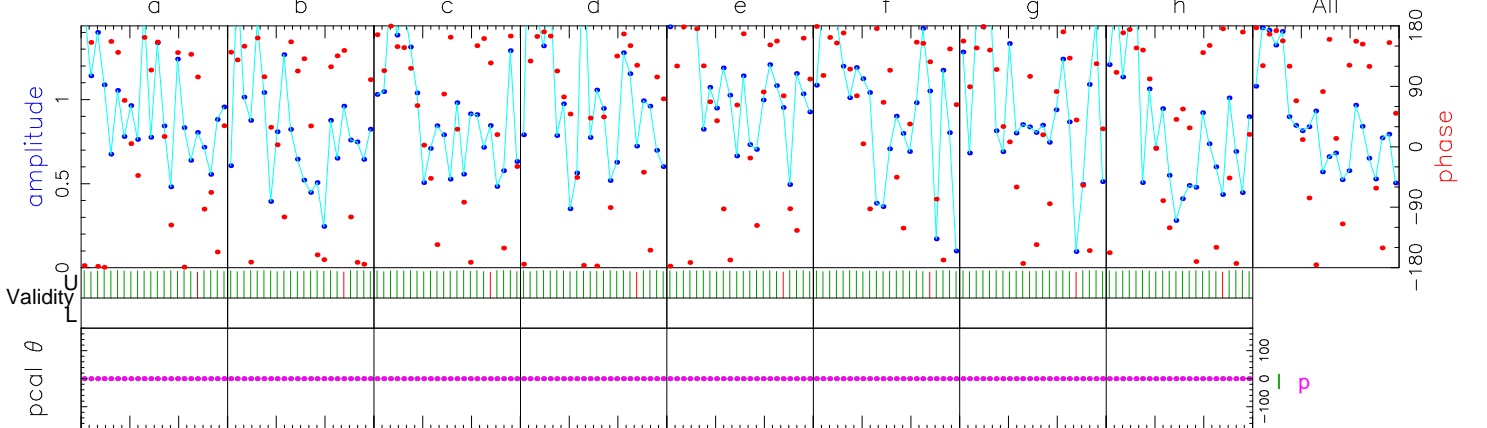
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, lp VLBA_LA - VLBA_PT, fgroup W, pol RR



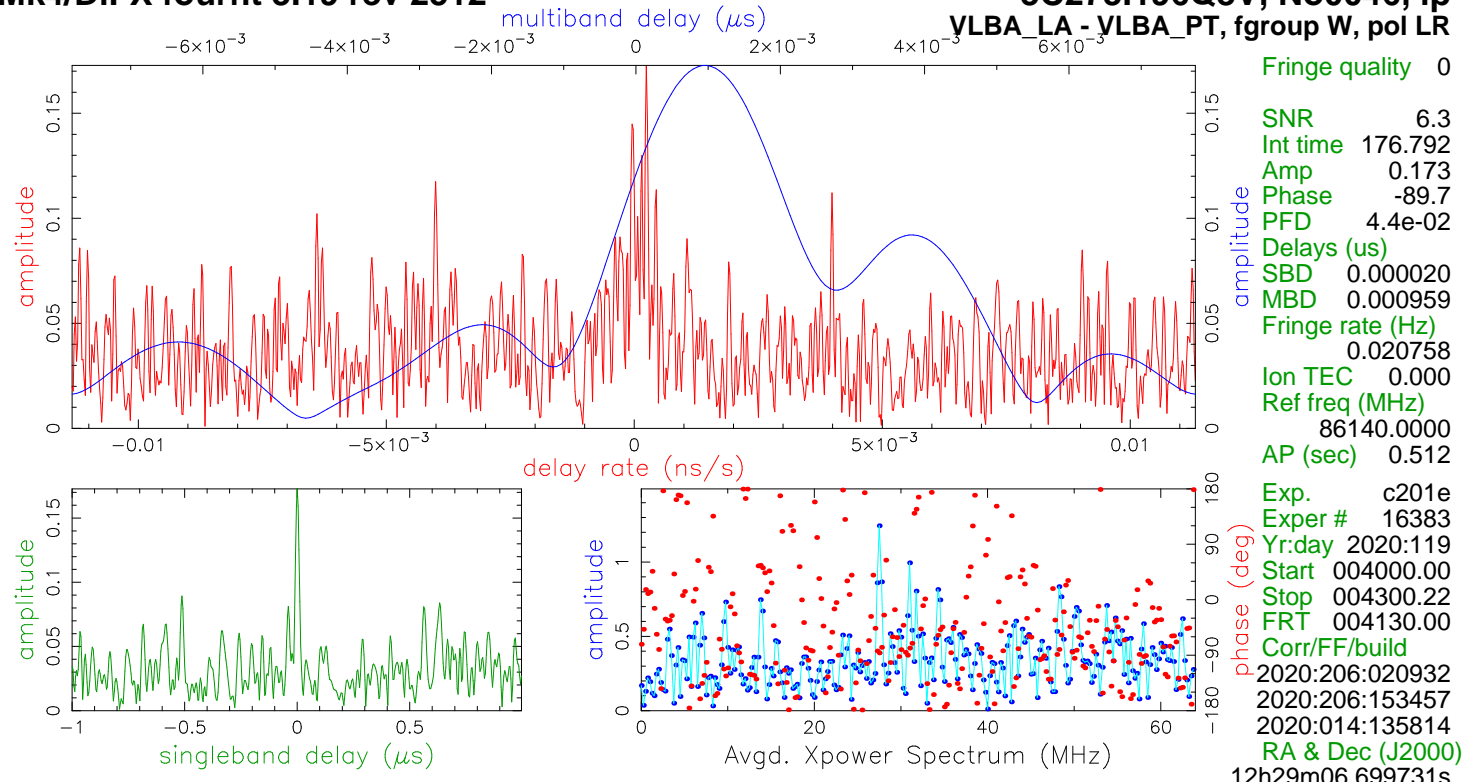
Fringe quality 9
 SNR 17.4
 Int time 176.792
 Amp 0.480
 Phase 150.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.004852
 MBD 0.003751
 Fringe rate (Hz)
 0.020982
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153455
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	150.2
p	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.5
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	258.2
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.03982122653E+02		Apriori delay (usec)		4.03978371607E+02		Resid mbdelay (usec)		3.75105E-03	+/- 6.2E-05
Sband delay (usec)	4.03983223857E+02		Apriori clock (usec)		-2.1041567E+01		Resid sbdelay (usec)		4.85225E-03	+/- 4.9E-04
Phase delay (usec)	4.03978376449E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		4.84210E-06	+/- 2.1E-07
Delay rate (us/s)	-3.68683790207E-02		Apriori rate (us/s)		-3.68686226044E-02		Resid rate (us/s)		2.43584E-07	+/- 2.0E-09
Total phase (deg)	125.0		Apriori accel (us/s/s)		-2.17953771647E-06		Resid phase (deg)		150.2	+/- 6.6

ph/seg (deg) 73.4 15.4 Search (1024X32) 0.469 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 100.9 26.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.2 9.3 Inc. seg. avg. 0.837 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.6 16.2 Inc. frq. avg. 0.474 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 102.1 el 19.4 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 210.199 180.258 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/lp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/lp.W.153.196Q8V



Fringe quality 0

SNR 6.3

Int time 176.792

Amp 0.173

Phase -89.7

PFD 4.4e-02

Delays (us)

SBD 0.000020

MBD 0.000959

Fringe rate (Hz)

0.020758

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201e

Exper # 16383

Yr:day 2020:119

Start 004000.00

Stop 004300.22

FRT 004130.00

Corr/FF/build

2020:206:020932

2020:206:153457

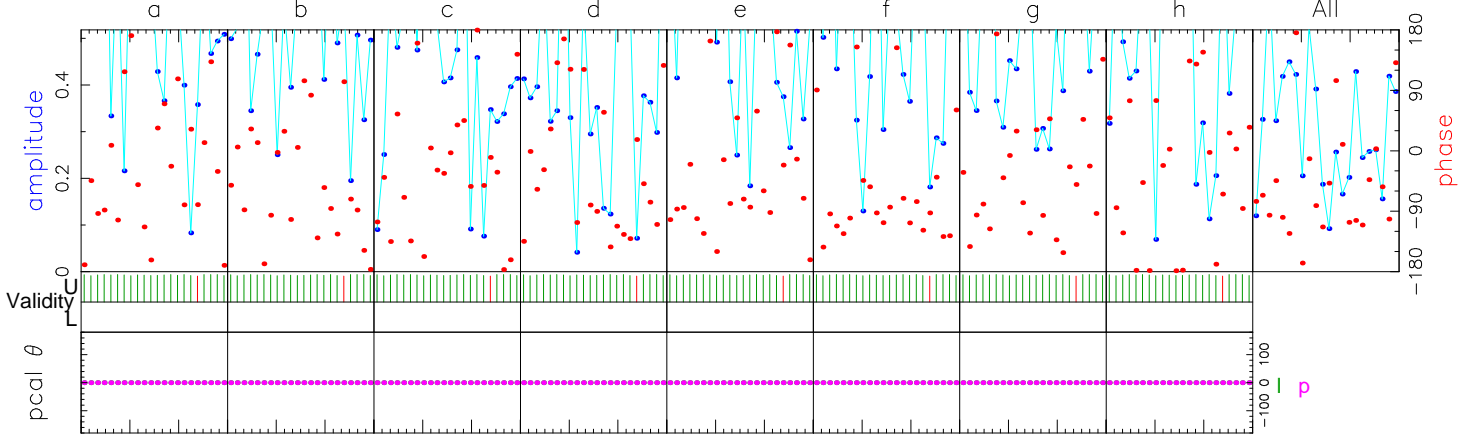
2020:014:135814

RA & Dec (J2000)

12h29m06.699731s

+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-86.3	-73.0	-74.7	-132.2	-87.3	-105.5	-75.2	-66.4	Phase	-89.7
	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.1	Ampl.	0.2
	20.6	9.5	445.1	449.0	257.0	257.2	438.0	383.6	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.03979330153E+02		Apriori delay (usec)		4.03978371607E+02		Resid mbdelay (usec)		9.58546E-04	+/- 1.7E-04
Sband delay (usec)	4.03978391607E+02		Apriori clock (usec)		-2.1041567E+01		Resid sbdelay (usec)		2.00000E-05	+/- 1.4E-03
Phase delay (usec)	4.03978368716E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		-2.89154E-06	+/- 5.9E-07
Delay rate (us/s)	-3.68683816296E-02		Apriori rate (us/s)		-3.68686226044E-02		Resid rate (us/s)		2.40975E-07	+/- 5.7E-09
Total phase (deg)	245.2		Apriori accel (us/s/s)		-2.17953771647E-06		Resid phase (deg)		-89.7	+/- 18.2

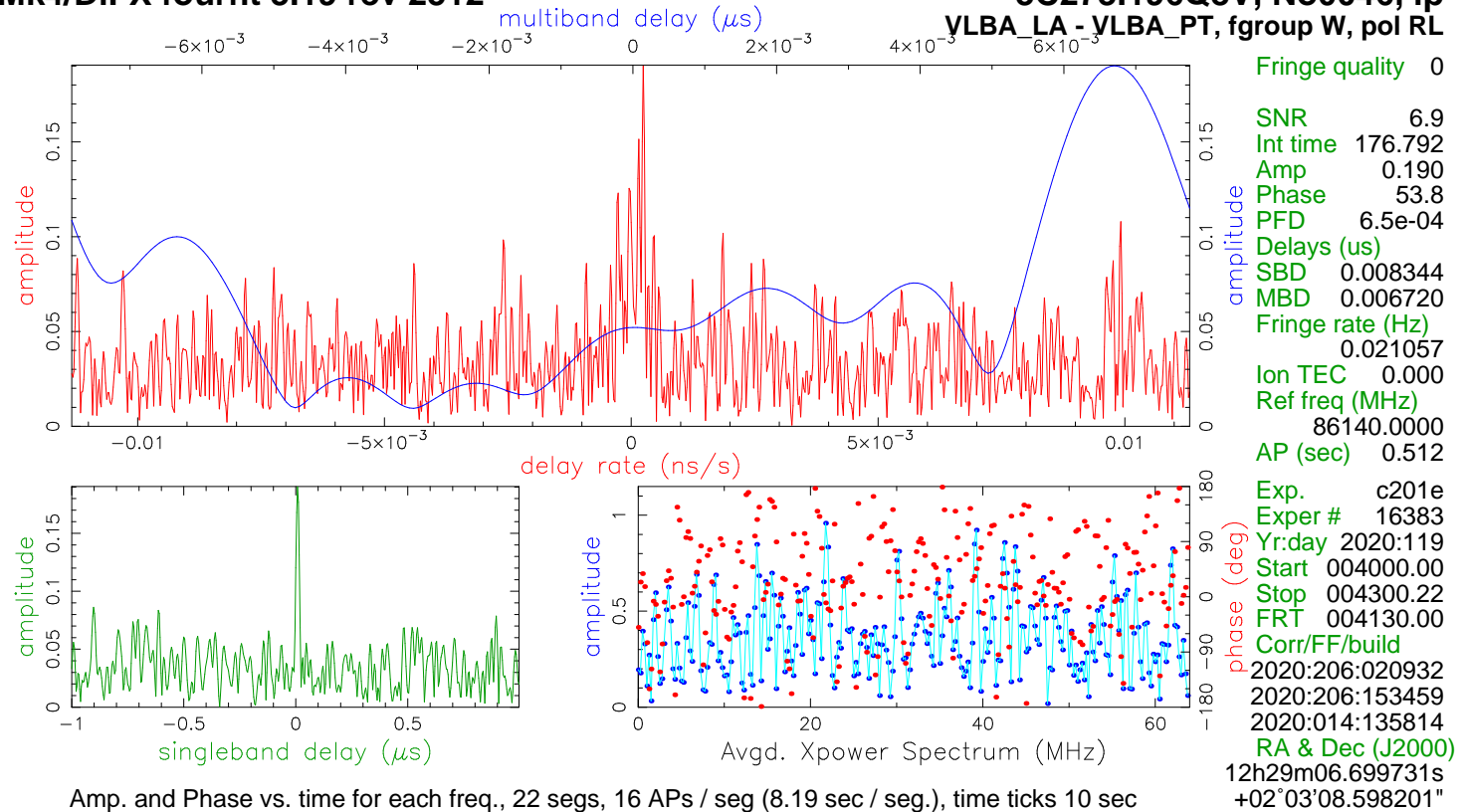
	RMS	Theor.	Amplitude	0.173 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	66.5	42.8	Search (1024X32)	0.172	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	113.9	74.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	23.6	25.8	Inc. seg. avg.	0.245	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	55.0	45.0	Inc. frq. avg.	0.164	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 102.1 el 19.4 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 210.199 180.258 simultaneous interpolator

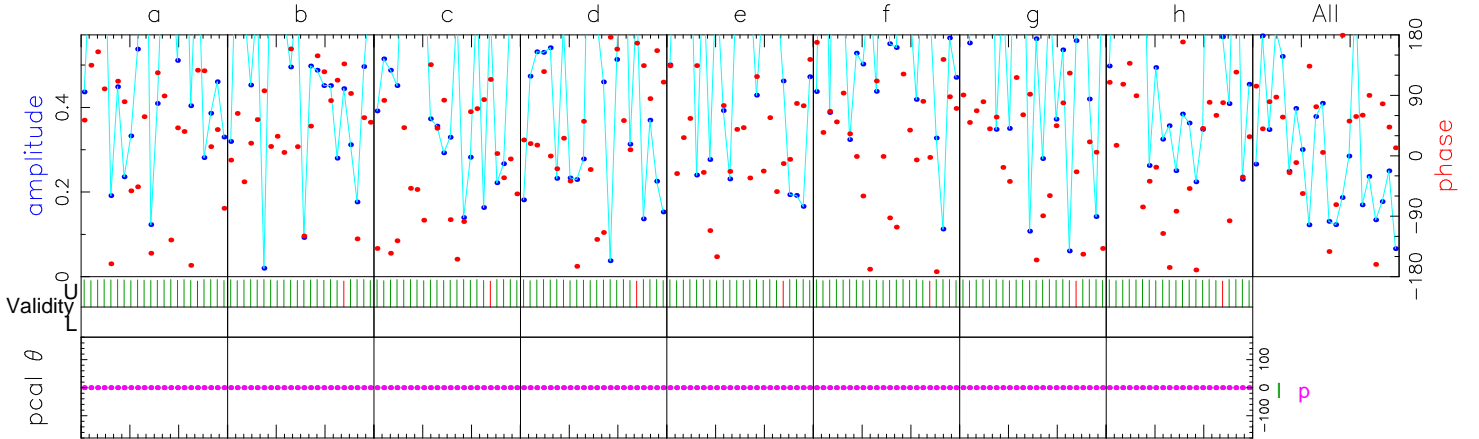
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/lp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/lp.W.164.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, lp
VLBA_LA - VLBA_PT, fgroup W, pol RL



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

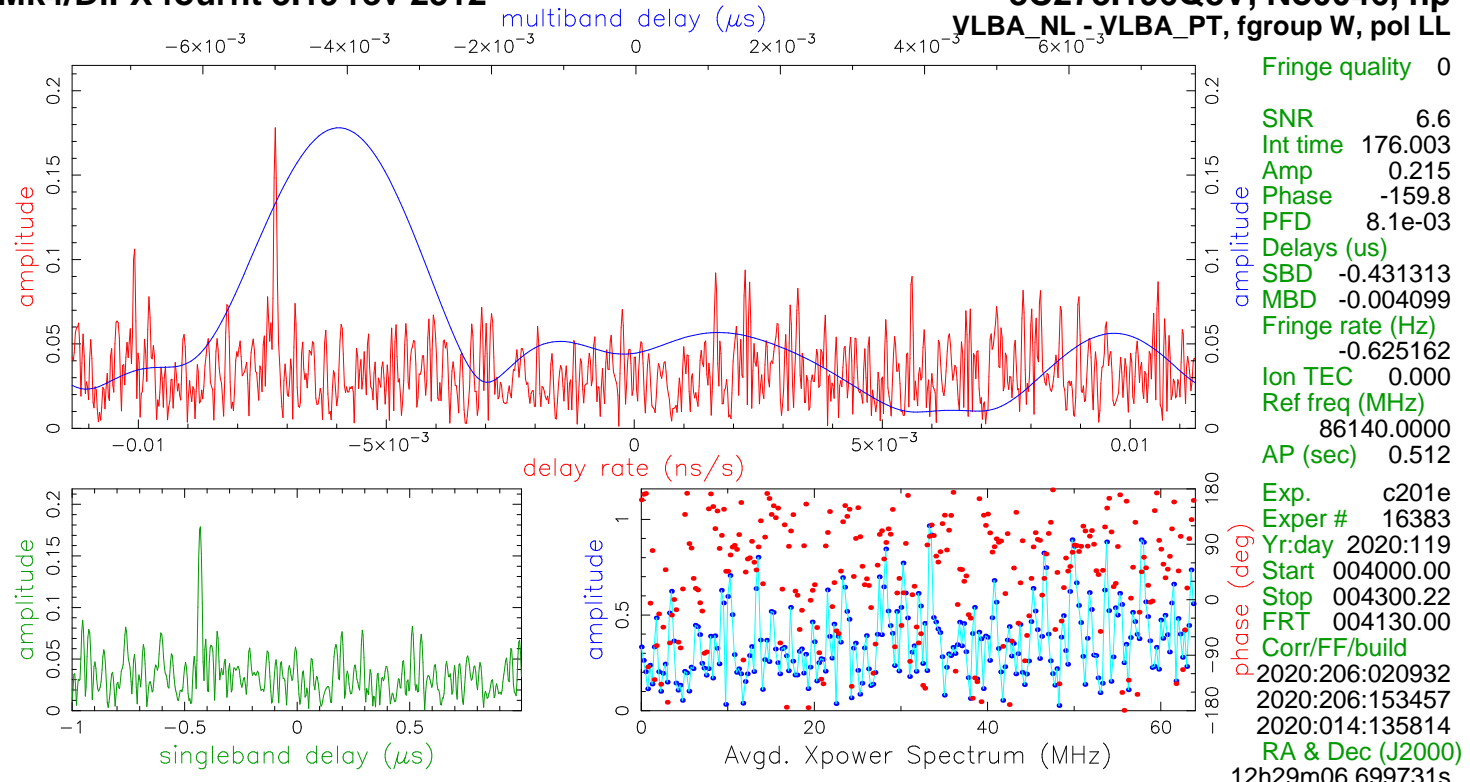


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
92.6	50.3	-28.9	35.8	20.9	53.1	57.1	85.2	85.2	Phase	53.8
0.3	0.3	0.1	0.1	0.3	0.3	0.2	0.2	0.2	Ampl.	0.2
315.4	259.0	284.4	217.7	220.4	259.0	341.7	329.0	329.0	Sbd box	259.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
p	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	4.03985091560E+02		Apriori delay (usec)	4.03978371607E+02	Resid mbdelay (usec)	6.71995E-03	+/-	1.6E-04		
Sband delay (usec)	4.03986715857E+02		Apriori clock (usec)	-2.1041567E+01	Resid sbdelay (usec)	8.34425E-03	+/-	1.2E-03		
Phase delay (usec)	4.03978373342E+02		Apriori clockrate (us/s)	-3.5499999E-07	Resid phdelay (usec)	1.73534E-06	+/-	5.3E-07		
Delay rate (us/s)	-3.68683781478E-02		Apriori rate (us/s)	-3.68686226044E-02	Resid rate (us/s)	2.44457E-07	+/-	5.1E-09		
Total phase (deg)		28.7	Apriori accel (us/s/s)	-2.17953771647E-06	Resid phase (deg)	53.8	+/-	16.5		

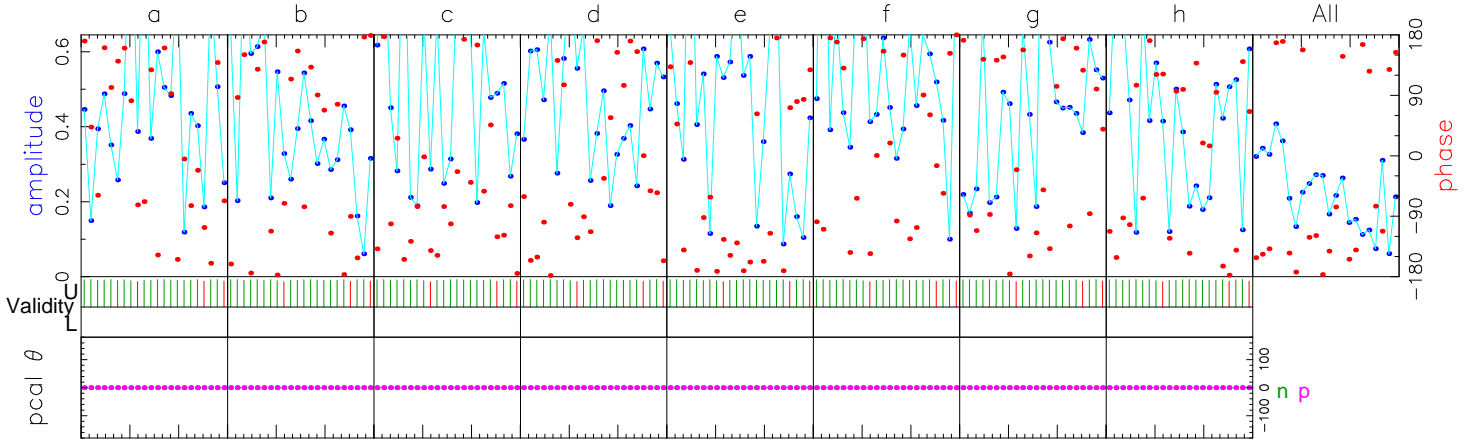
ph/seg (deg) 73.7 38.8 Search (1024X32) 0.187 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 104.5 67.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.4 23.4 Inc. seg. avg. 0.244 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.7 40.8 Inc. frq. avg. 0.200 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 102.1 el 19.4 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 210.199 180.258 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/lp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/lp.W.178.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, np
VLBA_NL - VLBA_PT, fgroup W, pol LL



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



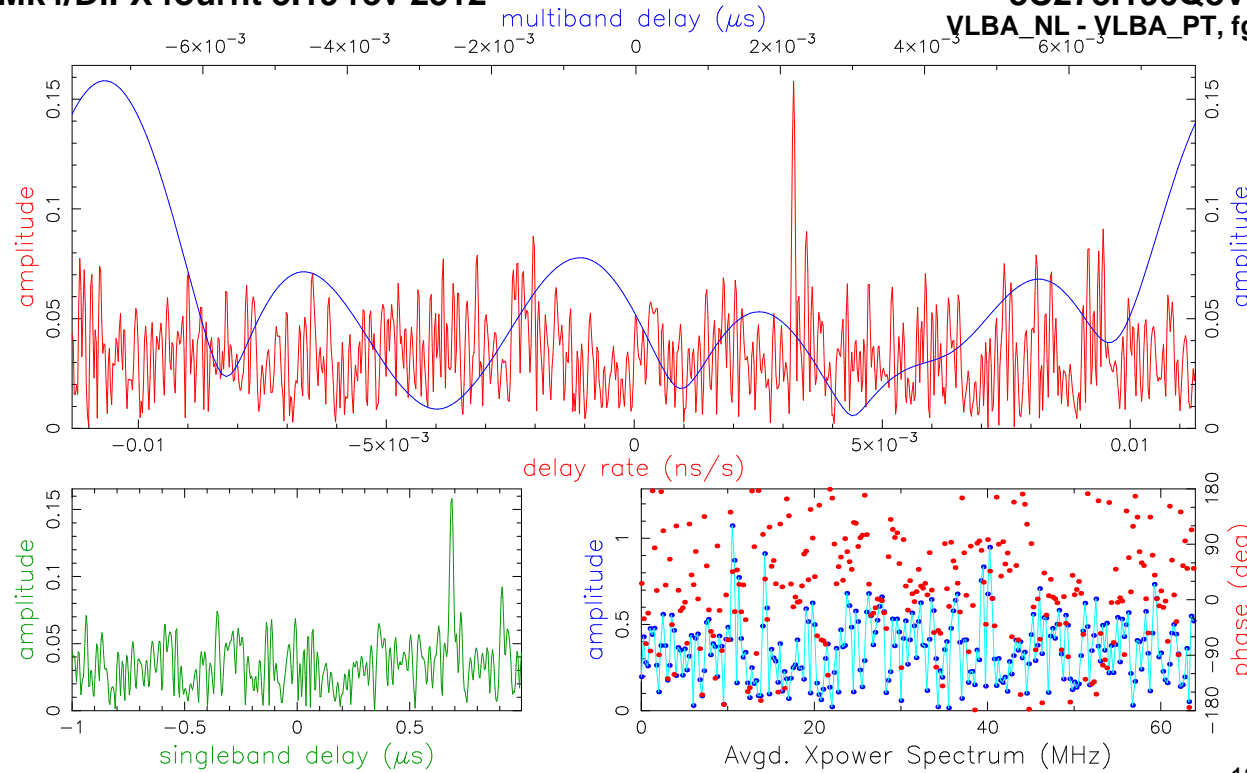
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.4	170.1	-117.6	-126.3	-174.0	-146.3	-170.3	-178.5		-159.8
	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2		0.2
	309.1	425.7	5.8	268.1	147.4	38.0	298.0	125.8		146.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
n	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	3.45147752807E+03		Apriori delay (usec)		3.45190350158E+03		Resid mbdelay (usec)		-4.09850E-03	+/- 1.7E-04
Sband delay (usec)	3.45147218833E+03		Apriori clock (usec)		1.5027830E+01		Resid sbdelay (usec)		-4.31313E-01	+/- 1.3E-03
Phase delay (usec)	3.45190349642E+03		Apriori clockrate (us/s)		1.2999999E-07		Resid phdelay (usec)		-5.15203E-06	+/- 5.6E-07
Delay rate (us/s)	-2.79972116407E-01		Apriori rate (us/s)		-2.79964858899E-01		Resid rate (us/s)		-7.25751E-06	+/- 5.4E-09
Total phase (deg)	65.5		Apriori accel (us/s/s)		-1.78834039101E-05		Resid phase (deg)		-159.8	+/- 17.5

ph/seg (deg) 43.8 41.0 Search (1024X32) 0.176 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 58.0 71.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.6 24.7 Inc. seg. avg. 0.214 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 28.6 43.2 Inc. frq. avg. 0.215 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 115.5 el 28.3 pa -42.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1595.373 858.581 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/np..196Q8V Output file: /Exps/c201e/v1/1234/No0046/np.W.166.196Q8V

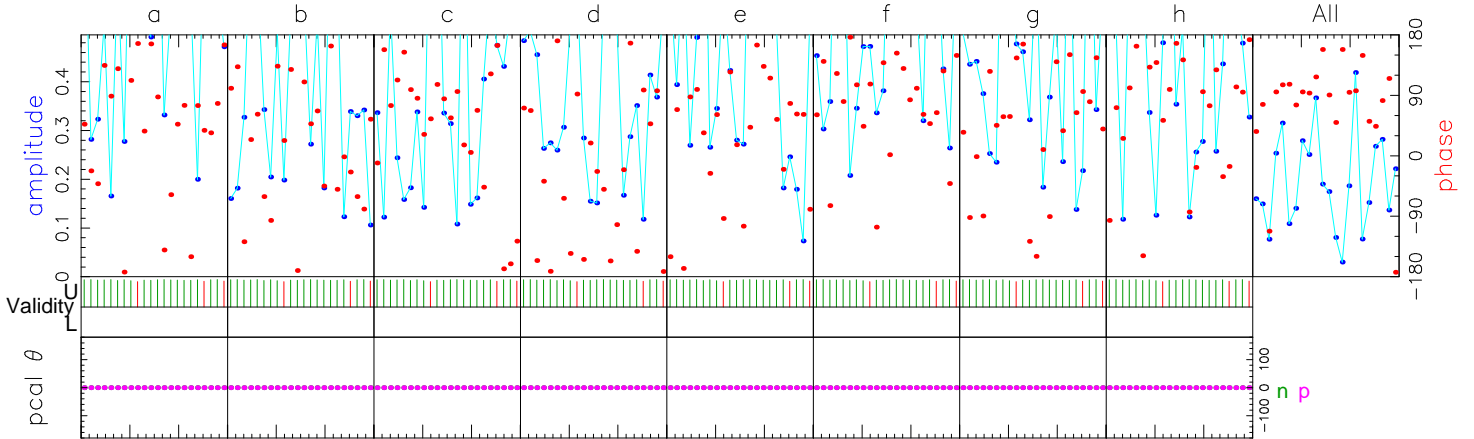
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, np
VLBA_NL - VLBA_PT, fgroup W, pol RR



Fringe quality 0
SNR 5.8
Int time 176.005
Amp 0.165
Phase 96.6
PFD 5.6e-01
Delays (us)
SBD 0.686028
MBD -0.007428
Fringe rate (Hz) 0.277823
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build 2020:206:020932
2020:206:153503
2020:014:135814
RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

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



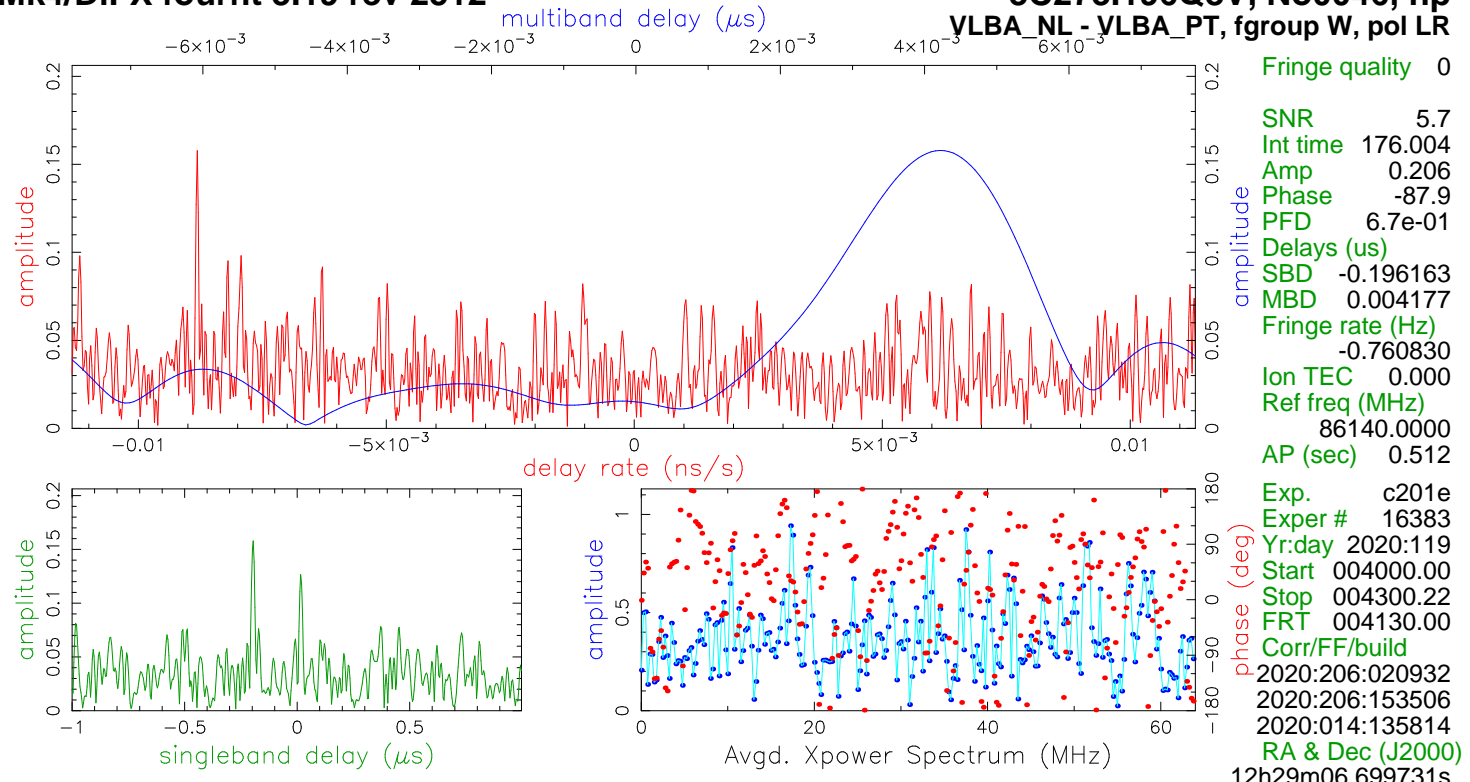
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)		3.45258357401E+03			3.45190350158E+03				Resid mbdelay (usec)	-7.42756E-03 +/- 1.9E-04
Sband delay (usec)		3.45258952958E+03			1.5027830E+01				Resid sbdelay (usec)	6.86028E-01 +/- 1.5E-03
Phase delay (usec)		3.45190350469E+03			1.2999999E-07				Resid phdelay (usec)	3.11587E-06 +/- 6.4E-07
Delay rate (us/s)		-2.79961633654E-01			-2.79964858899E-01				Resid rate (us/s)	3.22525E-06 +/- 6.1E-09
Total phase (deg)			321.9		-1.78834039101E-05				Resid phase (deg)	96.6 +/- 19.7

	RMS	Theor.	Amplitude	0.165 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	49.5	46.3	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	64.9	80.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	40.5	27.9	Inc. seg. avg.	0.153	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	48.0	48.7	Inc. frq. avg.	0.159	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

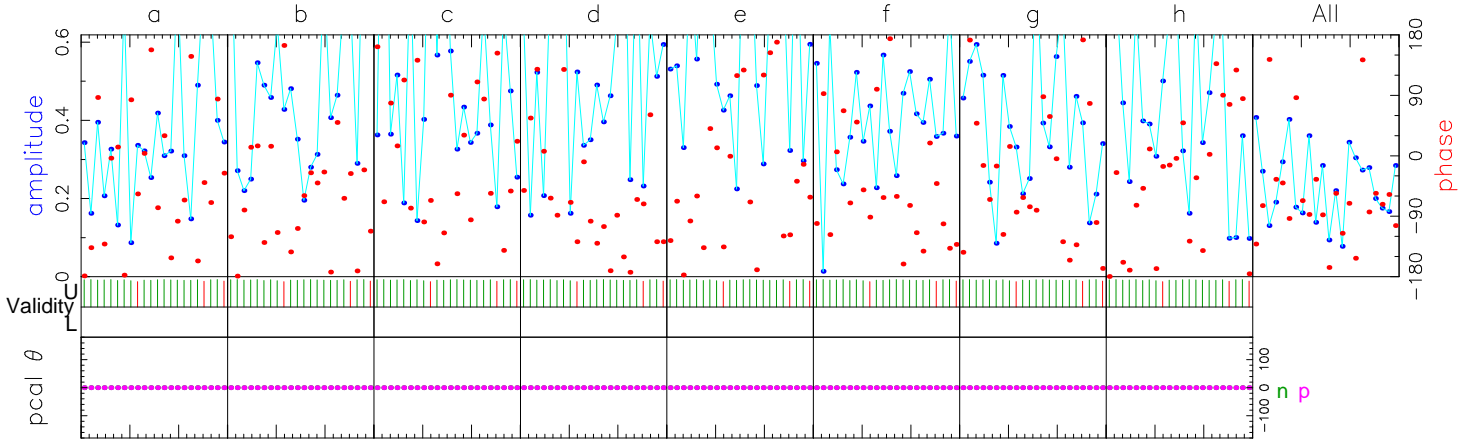
n: az 115.5 el 28.3 pa -42.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1595.373 858.581 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/np..196Q8V Output file: /Exps/c201e/v1/1234/No0046/np.W.200.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, np
VLBA_NL - VLBA_PT, fgroup W, pol LR



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-87.1	-72.0	-80.3	-109.7	-105.9	-93.3	-97.4	-17.4	Phase	-87.9
	0.1	0.3	0.2	0.3	0.3	0.3	0.2	0.1	Ampl.	0.2
	498.6	263.7	443.4	107.5	46.9	372.7	6.5	129.6	Sbd box	206.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		3.45170455348E+03			Apriori delay (usec)	3.45190350158E+03		Resid mbdelay (usec)	4.17691E-03	+/- 1.9E-04
Sband delay (usec)		3.45170733858E+03			Apriori clock (usec)	1.5027830E+01		Resid sbdelay (usec)	-1.96163E-01	+/- 1.5E-03
Phase delay (usec)		3.45190349874E+03			Apriori clockrate (us/s)	1.2999999E-07		Resid phdelay (usec)	-2.83583E-06	+/- 6.4E-07
Delay rate (us/s)		-2.79973691379E-01			Apriori rate (us/s)	-2.79964858899E-01		Resid rate (us/s)	-8.83248E-06	+/- 6.2E-09
Total phase (deg)			137.3		Apriori accel (us/s/s)	-1.78834039101E-05		Resid phase (deg)	-87.9	+/- 19.9

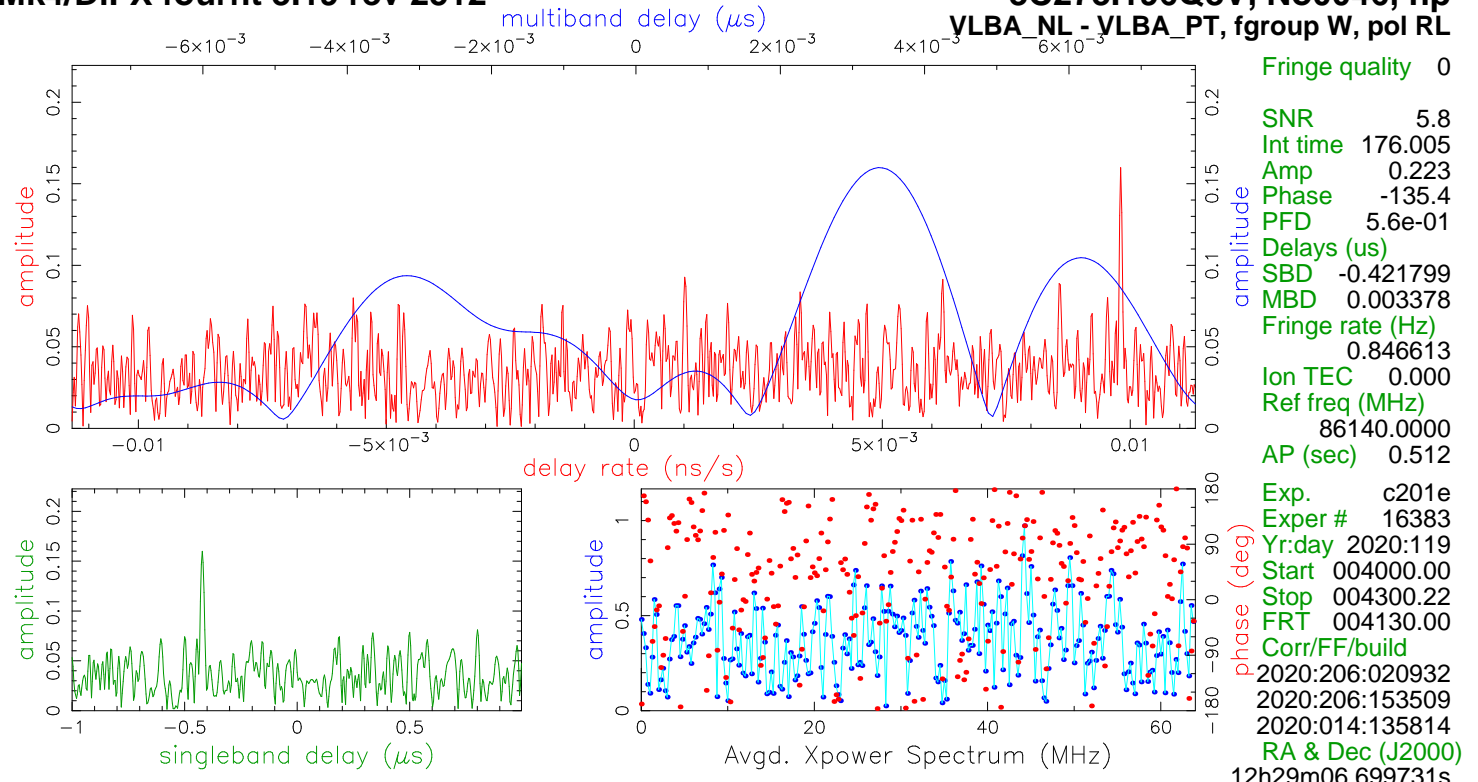
	RMS	Theor.	Amplitude	0.206 +/- 0.036	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
ph/seg (deg)	63.8	46.7	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008	
amp/seg (%)	76.7	81.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011	
ph/frq (deg)	32.1	28.2	Inc. seg. avg.	0.232	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00	
amp/frq (%)	33.3	49.2	Inc. frq. avg.	0.199	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite				

n: az 115.5 el 28.3 pa -42.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1595.373 858.581 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/np..196Q8V Output file: /Exps/c201e/v1/1234/No0046/np.W.217.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, np
VLBA_NL - VLBA_PT, fgroup W, pol RL



Fringe quality 0

SNR 5.8

Int time 176.005

Amp 0.223

Phase -135.4

PFD 5.6e-01

Delays (us)

SBD -0.421799

MBD 0.003378

Fringe rate (Hz)

0.846613

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201e

Exper # 16383

Yr:day 2020:119

Start 004000.00

Stop 004300.22

FRT 004130.00

Corr/FF/build

2020:206:020932

2020:206:153509

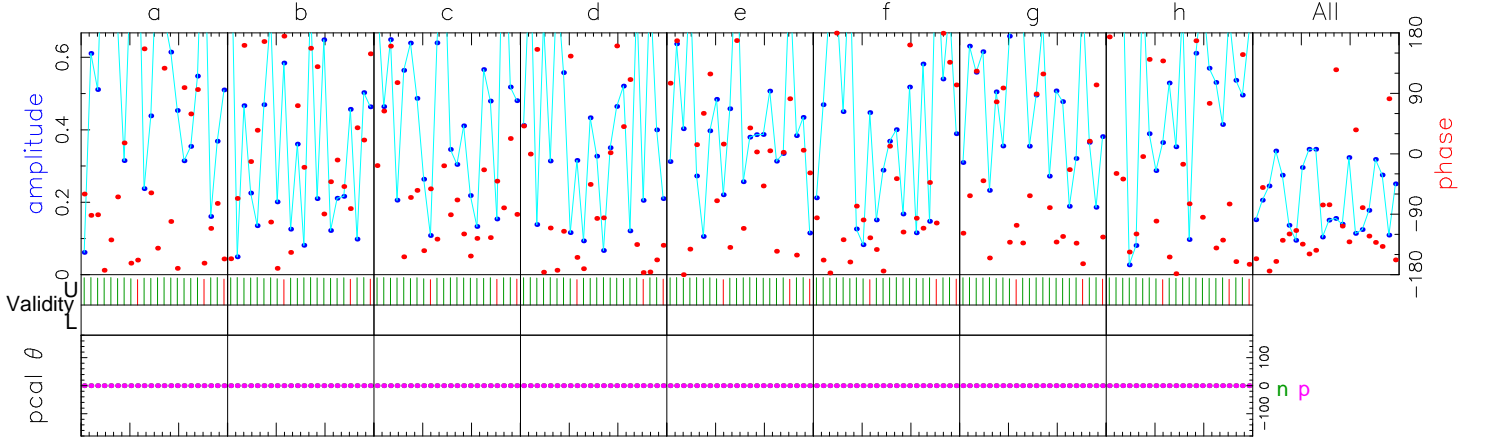
2020:014:135814

RA & Dec (J2000)

12h29m06.699731s

+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-145.2	-156.6	-74.4	-148.4	172.0	-152.6	-132.6	-126.7	Phase	-135.4
	0.5	0.2	0.3	0.2	0.0	0.4	0.2	0.2	Ampl.	0.2
	148.8	253.9	147.0	403.9	140.3	149.3	303.0	236.1	Sbd box	149.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.45148500481E+03		Apriori delay (usec)		3.45190350158E+03		Resid mbdelay (usec)		3.37823E-03	+/- 1.9E-04
Sband delay (usec)	3.45148170258E+03		Apriori clock (usec)		1.5027830E+01		Resid sbdelay (usec)		-4.21799E-01	+/- 1.5E-03
Phase delay (usec)	3.45190349721E+03		Apriori clockrate (us/s)		1.2999999E-07		Resid phdelay (usec)		-4.36661E-06	+/- 6.4E-07
Delay rate (us/s)	-2.79955030567E-01		Apriori rate (us/s)		-2.79964858899E-01		Resid rate (us/s)		9.82833E-06	+/- 6.1E-09
Total phase (deg)	89.8		Apriori accel (us/s/s)		-1.78834039101E-05		Resid phase (deg)		-135.4	+/- 19.8

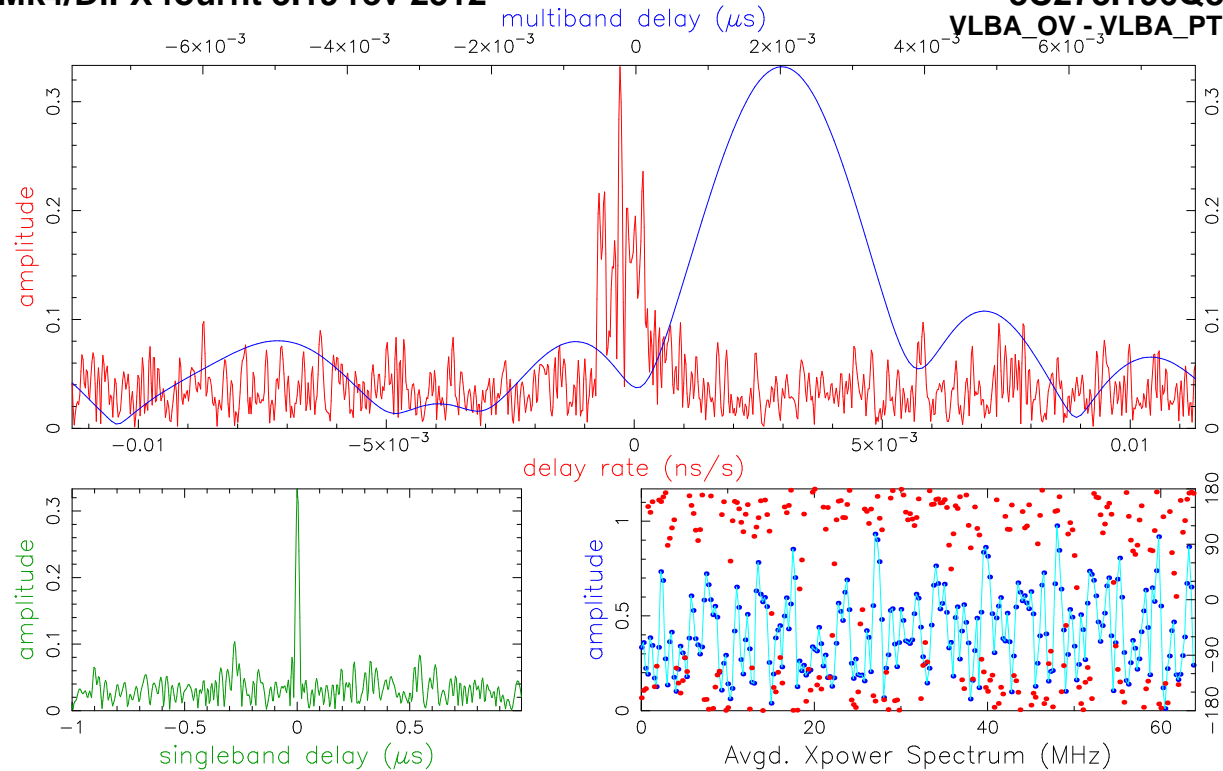
	RMS	Theor.	Amplitude	0.223 +/- 0.038	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	61.3	46.3	Search (1024X32)	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	63.8	80.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	35.6	27.9	Inc. seg. avg.	0.223	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	54.6	48.8	Inc. frq. avg.	0.225	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

n: az 115.5 el 28.3 pa -42.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 1595.373 858.581 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/np..196Q8V Output file: /Exps/c201e/v1/1234/No0046/np.W.239.196Q8V

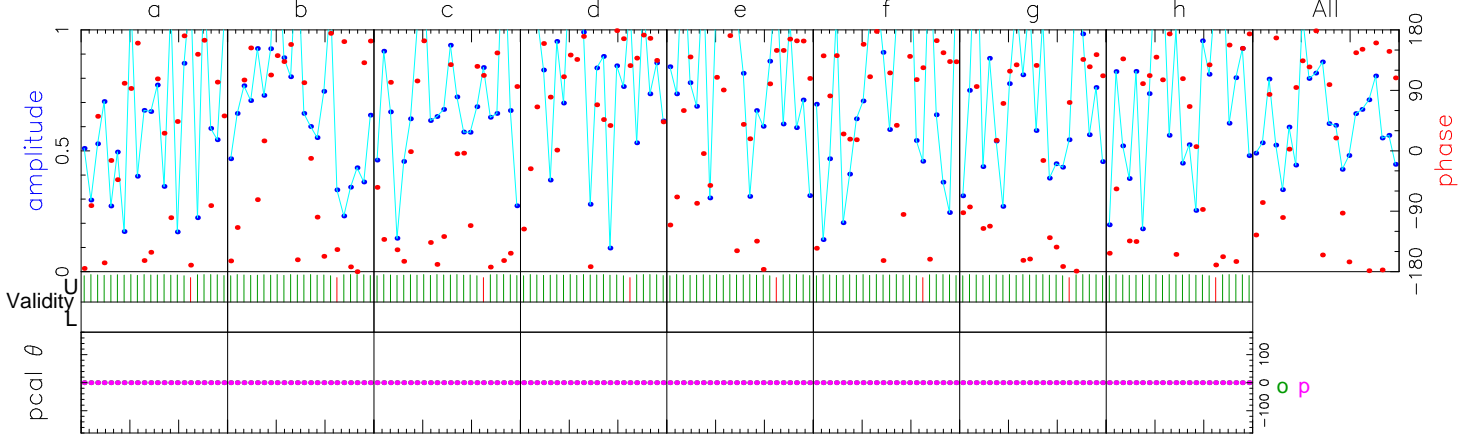
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, op
VLBA_OV - VLBA_PT, fgroup W, pol LL



Fringe quality 9
SNR 12.1
Int time 176.396
Amp 0.333
Phase 155.2
PFD 2.6e-25
Delays (us)
SBD 0.000747
MBD 0.002036
Fringe rate (Hz)
-0.025581
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153500
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

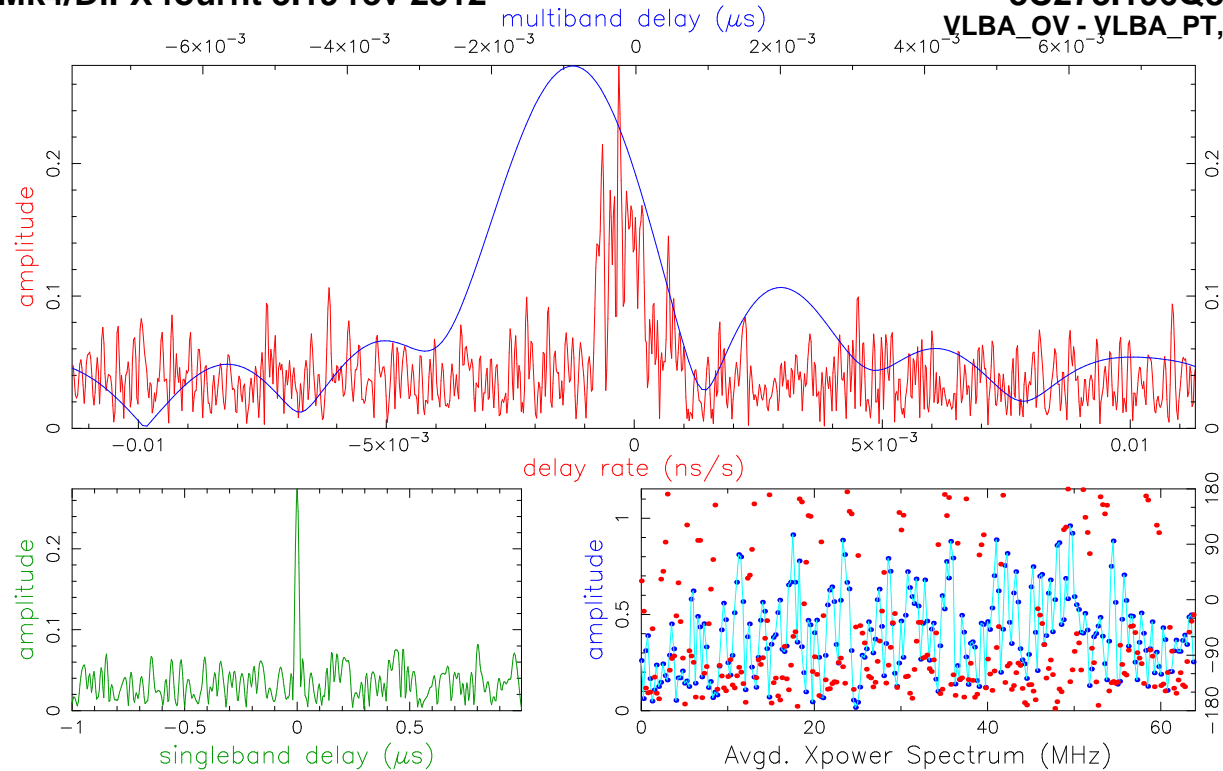
Group delay (usec)(sbd)	-3.08158864752E+03	Apriori delay (usec)	-3.08158868393E+03	Resid mbdelay (usec)	2.03642E-03	+/-	9.0E-05
Sband delay (usec)	-3.08158793718E+03	Apriori clock (usec)	2.8081512E+00	Resid sbdelay (usec)	7.46750E-04	+/-	7.1E-04
Phase delay (usec)	-3.08158867893E+03	Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	5.00378E-06	+/-	3.1E-07
Delay rate (us/s)	1.73662621190E-02	Apriori rate (us/s)	1.73665590897E-02	Resid rate (us/s)	-2.96971E-07	+/-	2.9E-09
Total phase (deg)	70.9	Apriori accel (us/s/s)	1.65531111232E-05	Resid phase (deg)	155.2	+/-	9.5

ph/seg (deg)	71.1	Theor.	22.2	Amplitude	0.333 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	102.6		38.8	Search (1024X32)	0.324	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	16.0		13.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	21.5		23.4	Inc. seg. avg.	0.584	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.334	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 94.9 el 9.6 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -90.891 410.632 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/op..196Q8V Output file: /Exps/c201e/v1/1234/No0046/op.W.186.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, op
VLBA_OV - VLBA_PT, fgroup W, pol RR

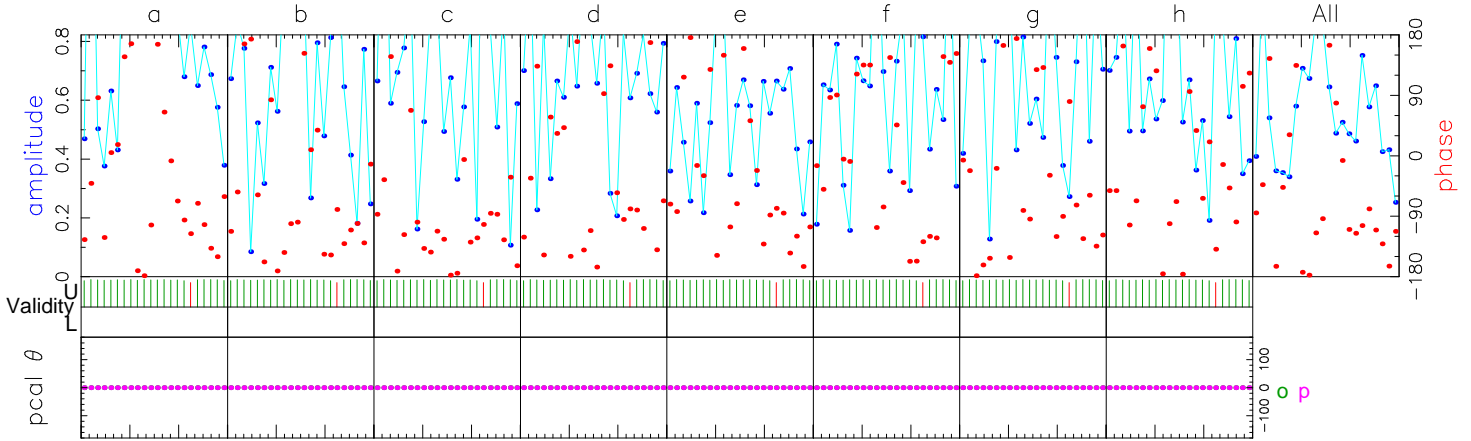


Fringe quality 9

SNR 10.0
Int time 176.396
Amp 0.274
Phase -121.3
PFD 5.0e-15
Delays (us)
SBD -0.000485
MBD -0.000885
Fringe rate (Hz)
-0.026244
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153502
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

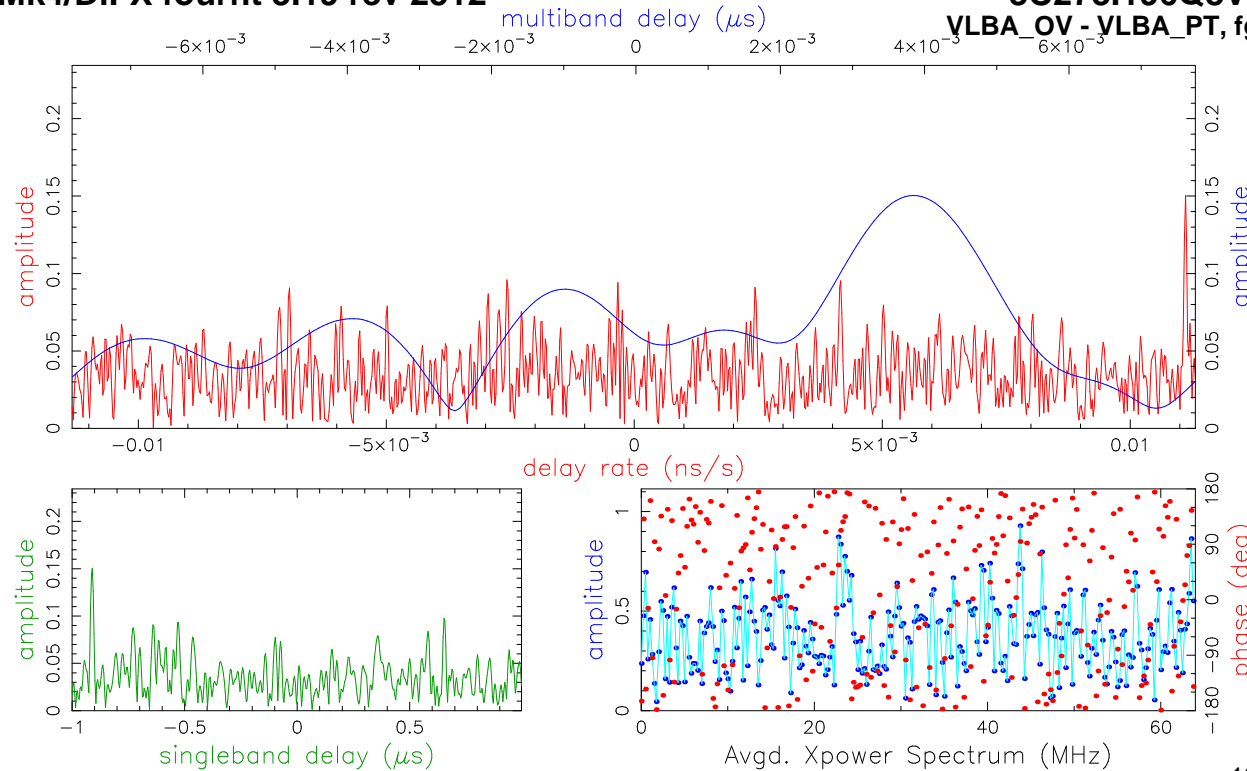
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.8	-124.1	-114.9	-121.8	-122.7	-176.9	-119.6	-99.5	Phase	-121.3
	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.2	Ampl.	0.3
	256.4	257.4	257.2	257.6	128.1	304.8	257.0	376.6	Sbd box	256.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.08158956885E+03		Apriori delay (usec)		-3.08158868393E+03		Resid mbdelay (usec)		-8.84914E-04	+/- 1.1E-04
Sband delay (usec)	-3.08158916893E+03		Apriori clock (usec)		2.8081512E+00		Resid sbdelay (usec)		-4.85000E-04	+/- 8.7E-04
Phase delay (usec)	-3.08158868784E+03		Apriori clockrate (us/s)		-2.9999874E-09		Resid phdelay (usec)		-3.91022E-06	+/- 3.7E-07
Delay rate (us/s)	1.73662544227E-02		Apriori rate (us/s)		1.73665590897E-02		Resid rate (us/s)		-3.04667E-07	+/- 3.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.65531111232E-05		Resid phase (deg)		-121.3	+/- 11.5

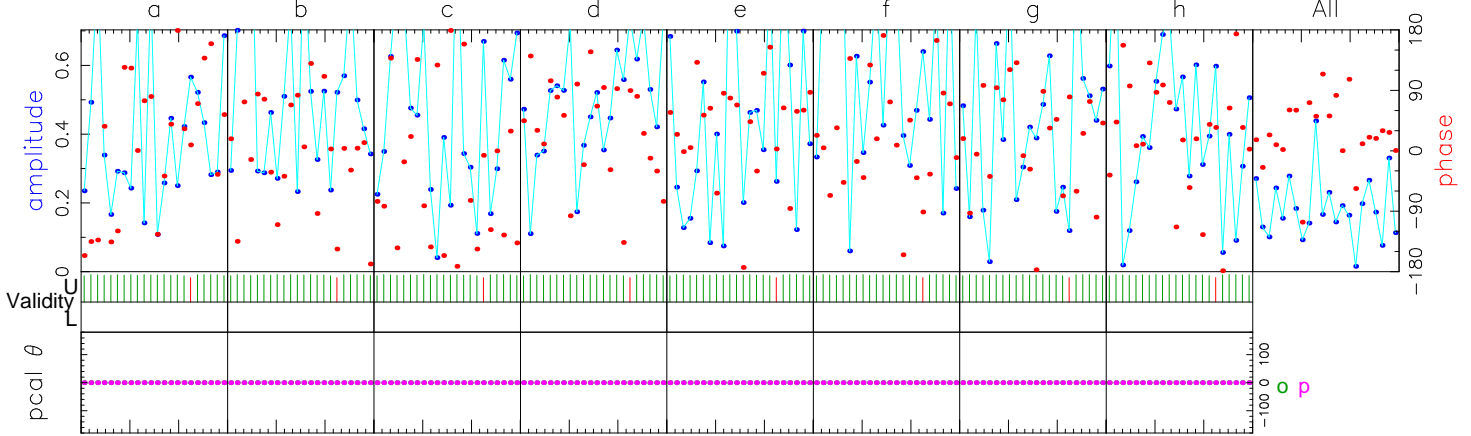
ph/seg (deg) 72.0 27.0 Search (1024X32) 0.268 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 126.5 47.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.6 16.3 Inc. seg. avg. 0.508 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.1 28.4 Inc. frq. avg. 0.274 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 94.9 el 9.6 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -90.891 410.632 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/op..196Q8V Output file: /Exps/c201e/v1/1234/No0046/op.W.197.196Q8V



Fringe quality 0
SNR 5.5
Int time 176.396
Amp 0.234
Phase 35.0
PFD 9.8e-01
Delays (us)
SBD -0.911349
MBD 0.003817
Fringe rate (Hz)
0.959521
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153504
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	66.3	15.3	-123.2	46.0	63.2	10.1	37.9	38.4	Phase	35.0
	0.1	0.3	0.2	0.3	0.4	0.4	0.3	0.4	Ampl.	0.3
	346.2	92.1	475.2	405.3	22.9	97.4	169.7	334.9	Sbd box	23.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

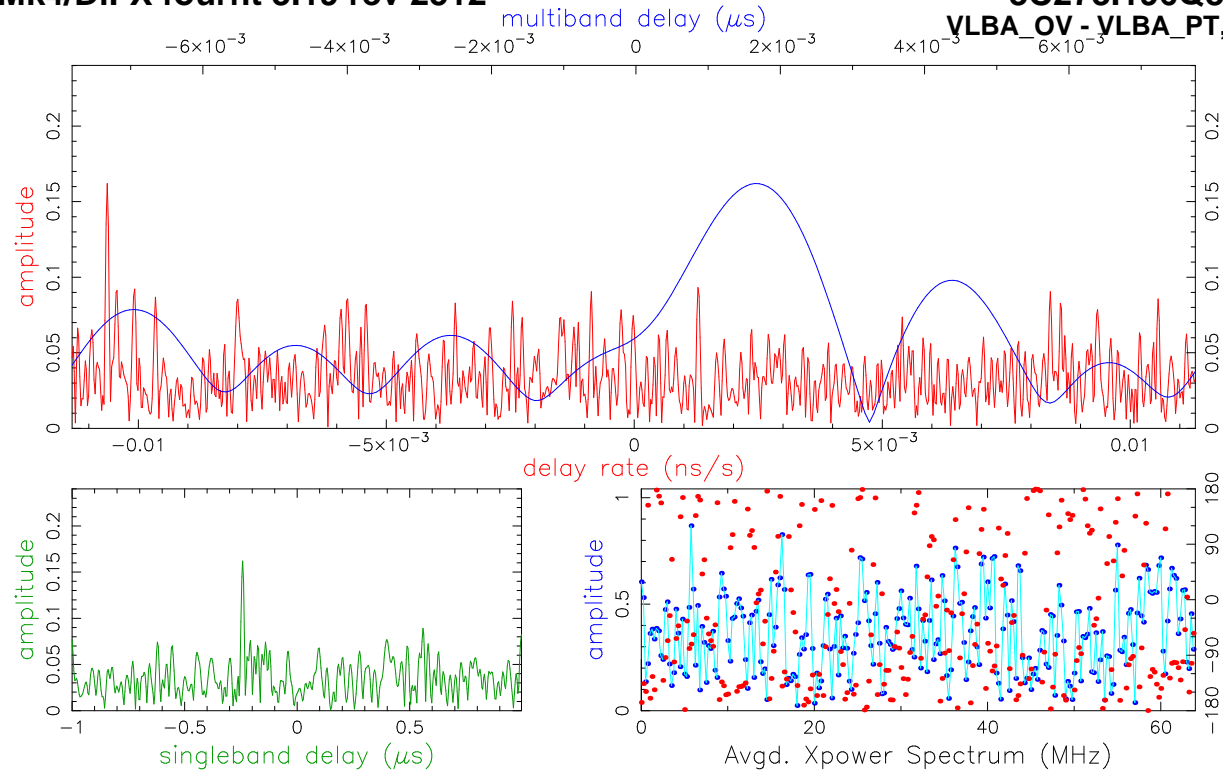
Group delay (usec)(sbd) -3.08250674240E+03 Apriori delay (usec) -3.08158868393E+03 Resid mbdelay (usec) 3.81654E-03 +/- 2.0E-04
Sband delay (usec) -3.08250003243E+03 Apriori clock (usec) 2.8081512E+09 Resid sbdelay (usec) -9.11349E-01 +/- 1.6E-03
Phase delay (usec) -3.08158868280E+03 Apriori clockrate (us/s) -2.9999874E-09 Resid phdelay (usec) 1.12819E-06 +/- 6.7E-07
Delay rate (us/s) 1.73776981738E-02 Apriori rate (us/s) 1.73665590897E-02 Resid rate (us/s) 1.11391E-05 +/- 6.4E-09
Total phase (deg) -49.2 Apriori accel (us/s/s) 1.65531111232E-05 Resid phase (deg) 35.0 +/- 20.8

RMS Theor. Amplitude 0.234 +/- 0.043 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 49.9 48.7 Search (1024X32) 0.148 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 64.5 85.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 68.2 29.4 Inc. seg. avg. 0.212 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 45.2 51.3 Inc. frq. avg. 0.267 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 94.9 el 9.6 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -90.891 410.632 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/op...196Q8V Output file: /Exps/c201e/v1/1234/No0046/op.W.207.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, op
VLBA_OV - VLBA_PT, fgroup W, pol RL

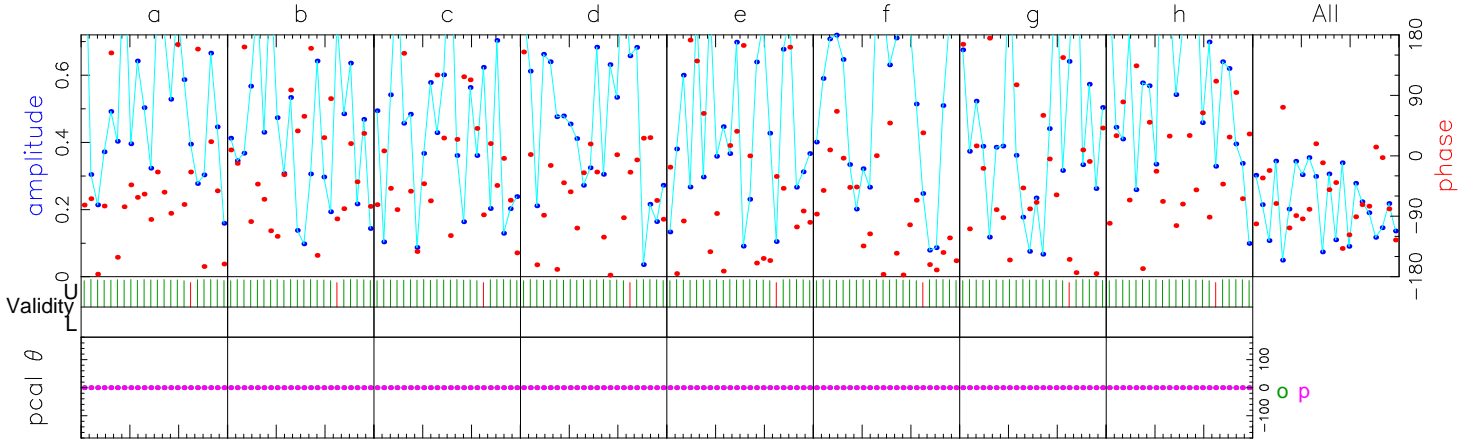


Fringe quality 0

SNR 5.9
Int time 176.395
Amp 0.240
Phase -73.3
PFD 4.0e-01
Delays (us)
SBD -0.242479
MBD 0.001654
Fringe rate (Hz)
-0.917009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153506
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

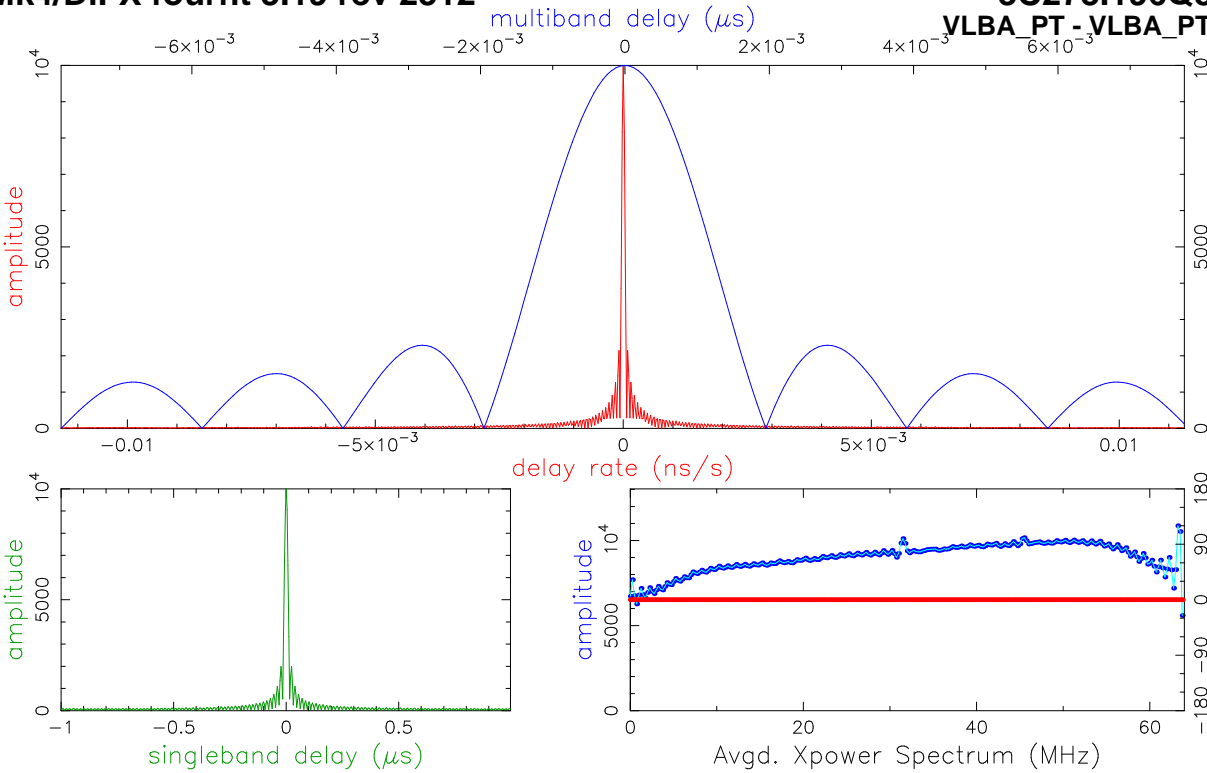


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-74.2	-61.4	-59.7	-53.5	-143.6	-102.9	-107.0	-32.2	Phase	-73.3
	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.4	Ampl.	0.3
	195.8	268.4	280.8	369.5	297.9	287.2	82.4	196.1	Sbd box	194.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.08183703031E+03		Apriori delay (usec)		-3.08158868393E+03		Resid mbdelay (usec)		1.65362E-03	+/- 1.8E-04
Sband delay (usec)	-3.08183116293E+03		Apriori clock (usec)		2.8081512E+00		Resid sbdelay (usec)		-2.42479E-01	+/- 1.5E-03
Phase delay (usec)	-3.08158868630E+03		Apriori clockrate (us/s)		-2.9999874E-09		Resid phdelay (usec)		-2.36247E-06	+/- 6.3E-07
Delay rate (us/s)	1.73559135245E-02		Apriori rate (us/s)		1.73665590897E-02		Resid rate (us/s)		-1.06456E-05	+/- 6.0E-09
Total phase (deg)			Apriori accel (us/s/s)		1.65531111232E-05		Resid phase (deg)		-73.3	+/- 19.5

ph/seg (deg) 54.0 45.7 Search (1024X32) 0.157 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.7 79.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 39.5 27.5 Inc. seg. avg. 0.242 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 39.5 48.1 Inc. frq. avg. 0.254 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
o: az 94.9 el 9.6 pa -52.5 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) -90.891 410.632 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/op..196Q8V Output file: /Exps/c201e/v1/1234/No0046/op.W.219.196Q8V

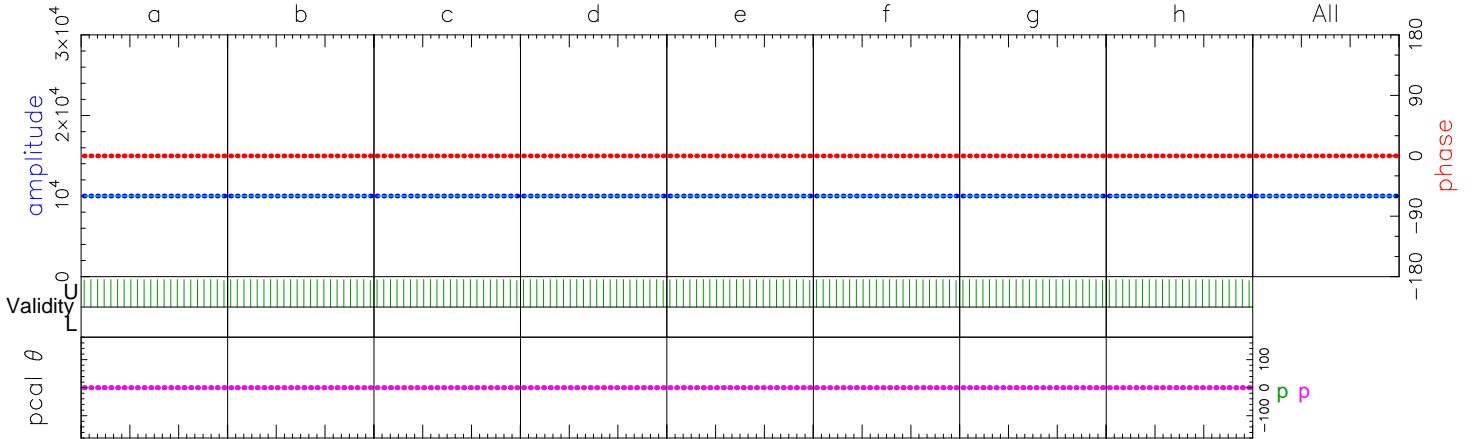
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, pp
VLBA_PT - VLBA_PT, fgroup W, pol LL



Fringe quality 9
SNR 366494.3
Int time 179.613
Amp 10000.005
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153501
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



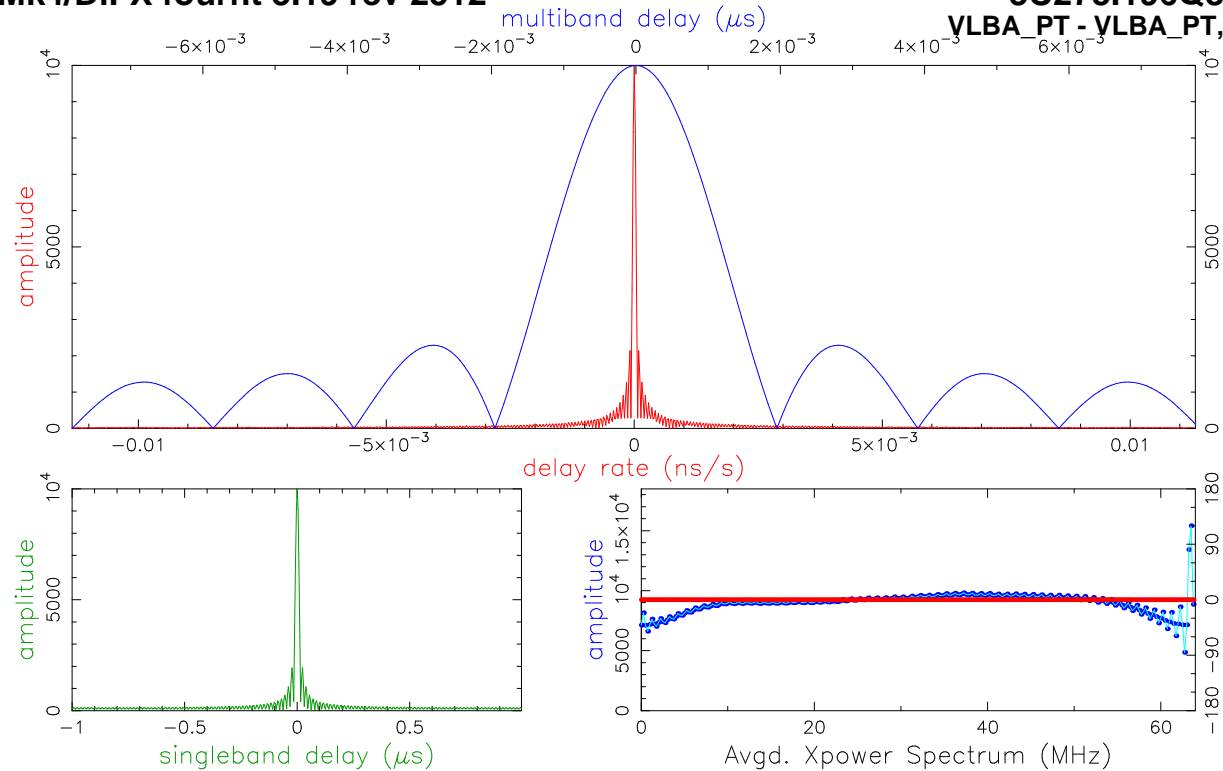
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.4E-08
Phase delay (usec)	-3.45406428452E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.45406E-20	+/-	1.0E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.7E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.005 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.005 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 p: az 100.4 el 18.2 pa -54.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pp.W.189.196Q8V simultaneous interpolator

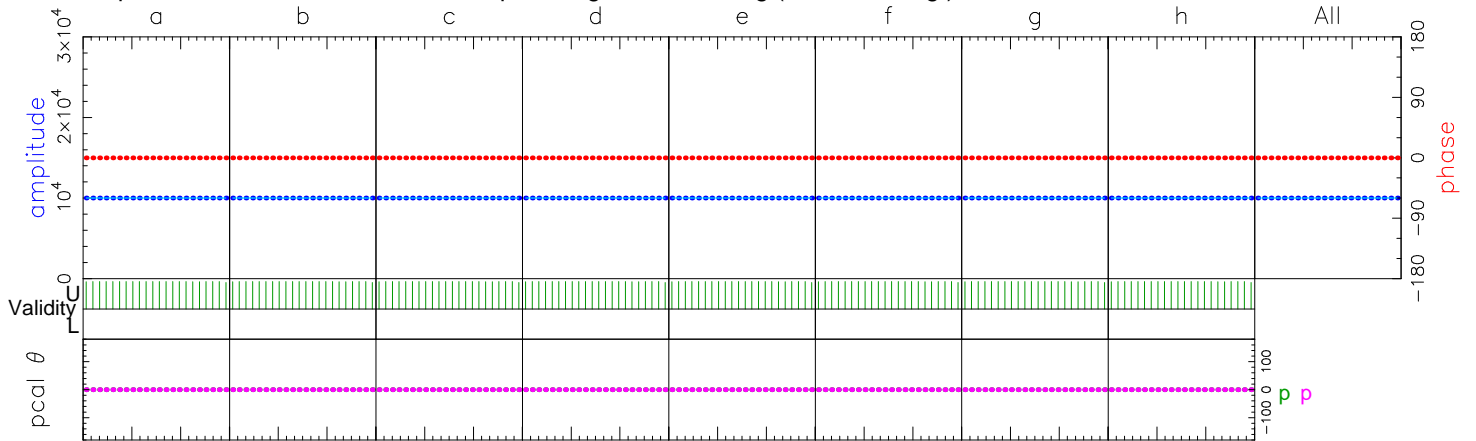
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, pp
VLBA_PT - VLBA_PT, fgroup W, pol RR



Fringe quality 9
SNR 366494.4
Int time 179.613
Amp 10000.006
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153504
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

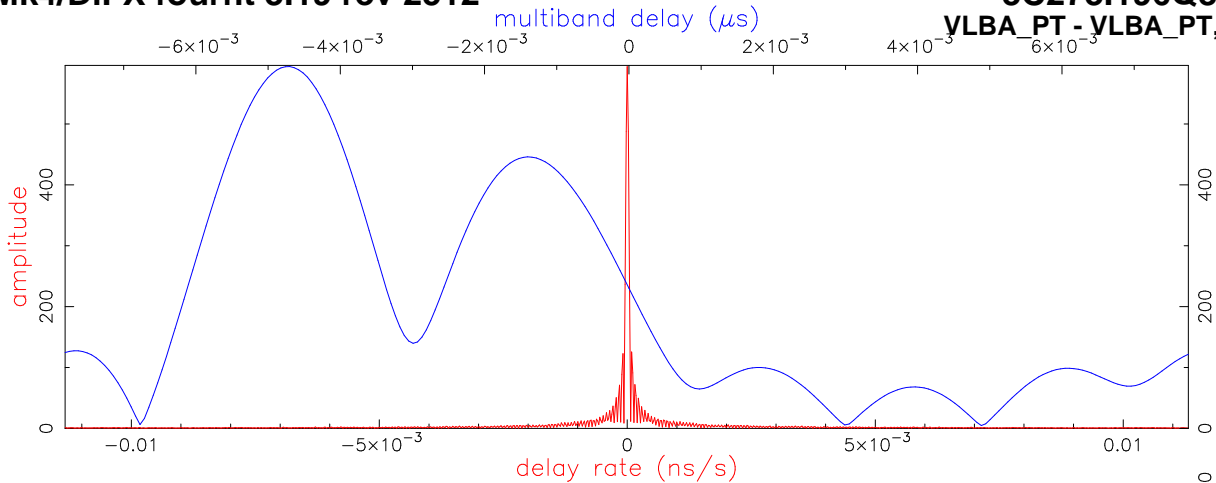


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 3.0E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 2.4E-08
Phase delay (usec)	1.59314901737E-20	1.59314901737E-20	1.59314901737E-20	1.59314901737E-20	1.59314901737E-20	1.59314901737E-20	1.59314901737E-20	1.59314901737E-20		+/- 1.0E-11
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		+/- 9.7E-14
Total phase (deg)			0.0							+/- 0.0

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
p: az 100.4 el 18.2 pa -54.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pp.W.206.196Q8V

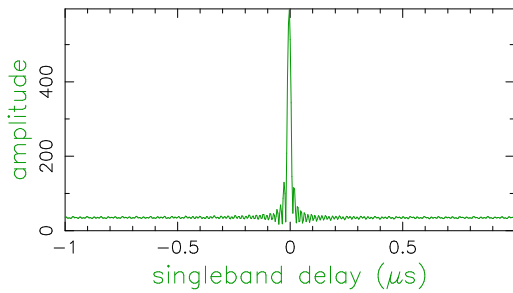
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, pp VLBA_PT - VLBA_PT, fgroup W, pol LR

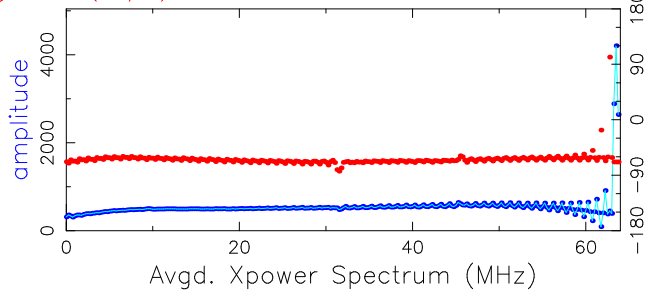


Fringe quality 5

SNR 21846.5
 Int time 179.613
 Amp 596.093
 Phase -64.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.004592
 MBD -0.004726
 Fringe rate (Hz)
 -0.000024
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

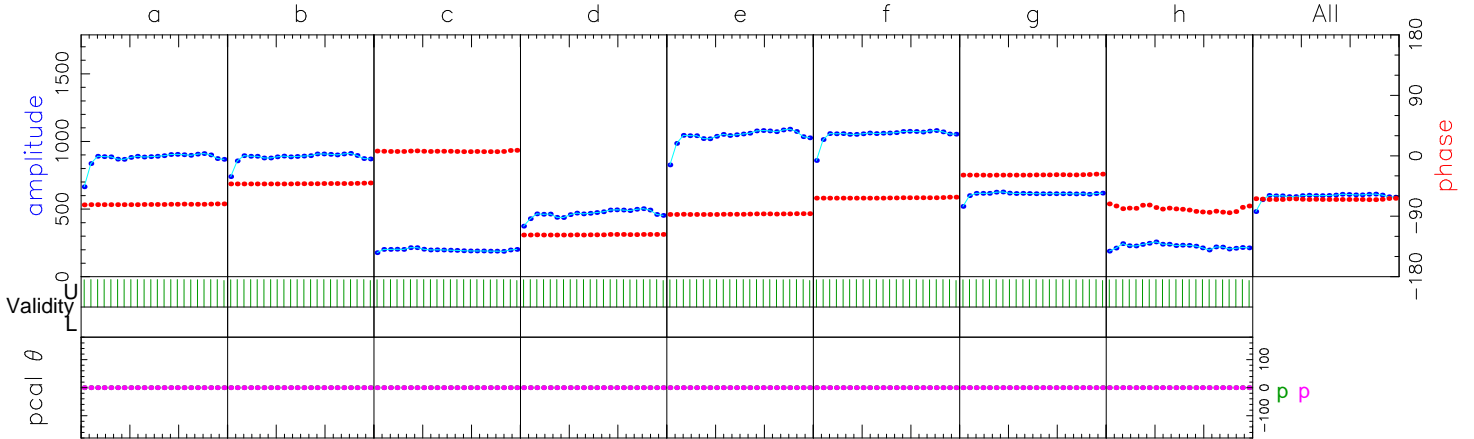


delay rate (ns/s)



Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153510
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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



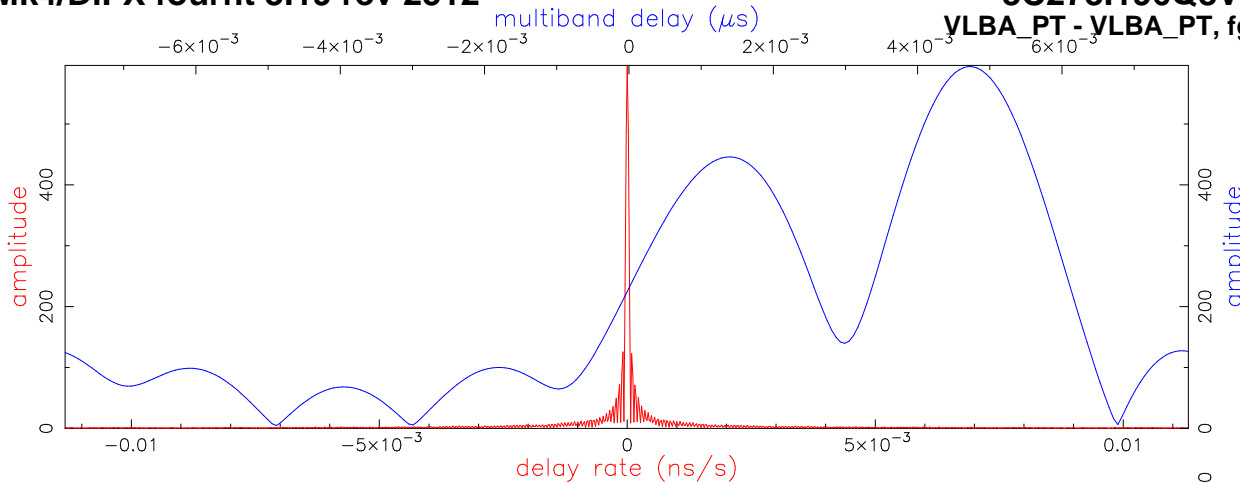
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.4	-41.5	6.7	-117.5	-86.8	-62.6	-28.4	-78.9	Phase	-64.7
	877.4	884.2	197.3	466.6	1041.2	1052.0	610.8	224.3	Ampl.	669.2
	256.5	256.3	256.7	256.2	256.0	256.1	256.3	259.2	Sbd box	255.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.72621875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-4.72622E-03	+/- 5.0E-08
Sband delay (usec)	-4.59175000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-4.59175E-03	+/- 3.9E-07
Phase delay (usec)	-2.08707068621E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.08707E-06	+/- 1.7E-10
Delay rate (us/s)	-2.79171702116E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.79172E-10	+/- 1.6E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-64.7	+/- 0.0

ph/seg (deg) 0.5 0.0 Search (1024X32) 588.134 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 4.4 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.8 0.0 Inc. seg. avg. 594.201 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.7 0.0 Inc. frq. avg. 669.225 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 100.4 el 18.2 pa -54.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00 simultaneous interpolator

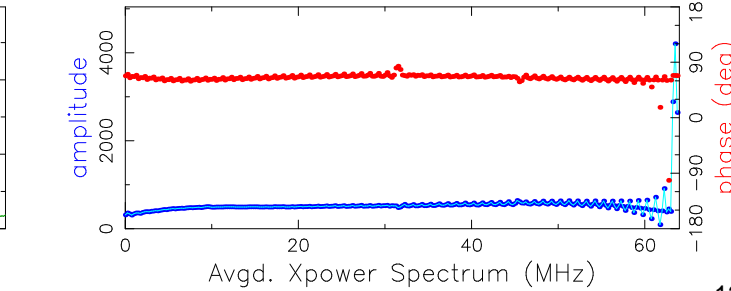
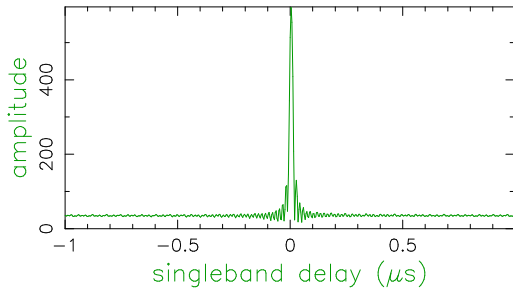
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pp.W.244.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

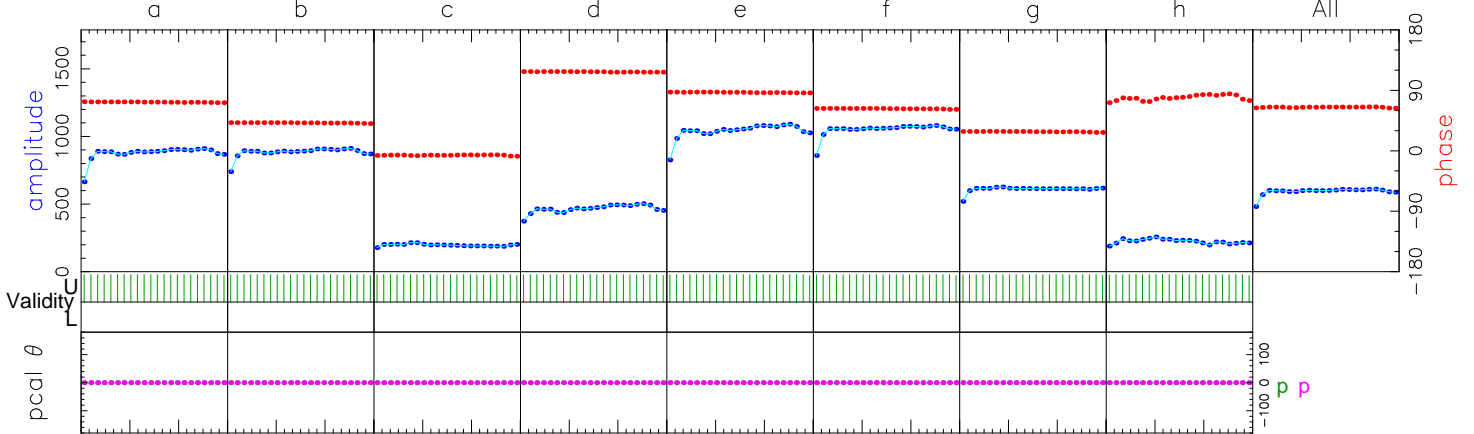
3C273.196Q8V, No0046, pp VLBA_PT - VLBA_PT, fgroup W, pol RL



Fringe quality 5
 SNR 21846.5
 Int time 179.613
 Amp 596.093
 Phase 64.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.004592
 MBD 0.004726
 Fringe rate (Hz) 0.000024
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153512
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

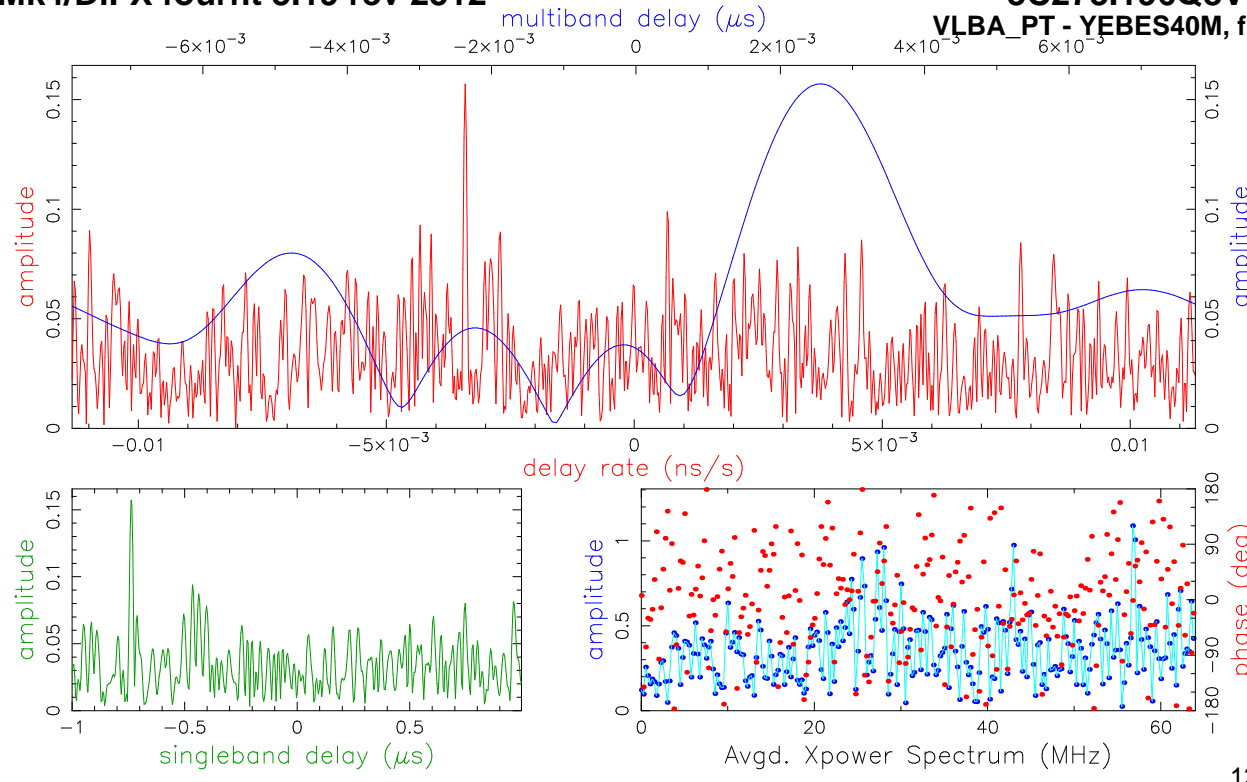


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	72.4	41.5	-6.7	117.5	86.8	62.6	28.4	78.9		64.7
	877.4	884.2	197.3	466.6	1041.2	1052.0	610.8	224.3		669.2
	257.5	257.7	257.3	257.8	258.0	257.9	257.7	254.8		258.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	4.72621875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.72622E-03	+/- 5.0E-08
Sband delay (usec)	4.59175000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		4.59175E-03	+/- 3.9E-07
Phase delay (usec)	2.08707068609E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.08707E-06	+/- 1.7E-10
Delay rate (us/s)	2.79171702116E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.79172E-10	+/- 1.6E-12
Total phase (deg)	64.7		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		64.7	+/- 0.0

RMS Theor. Amplitude 596.093 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.5 0.0 Search (1024X32) 588.134 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 4.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 41.8 0.0 Inc. seg. avg. 594.201 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 55.7 0.0 Inc. frq. avg. 669.225 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 p: az 100.4 el 18.2 pa -54.4 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pp.W.255.196Q8V

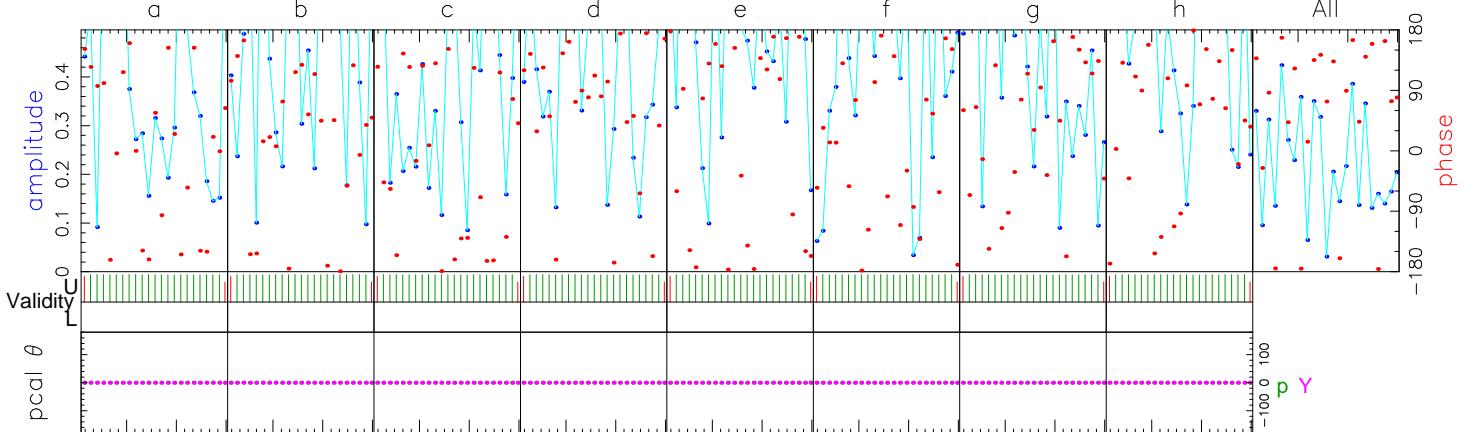


Fringe quality 0

SNR 5.7
Int time 173.118
Amp 0.166
Phase 135.4
PFD 6.9e-01
Delays (us)
SBD -0.736726
MBD 0.002589
Fringe rate (Hz)
-0.293390
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004005.12
Stop 004259.71
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153501
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



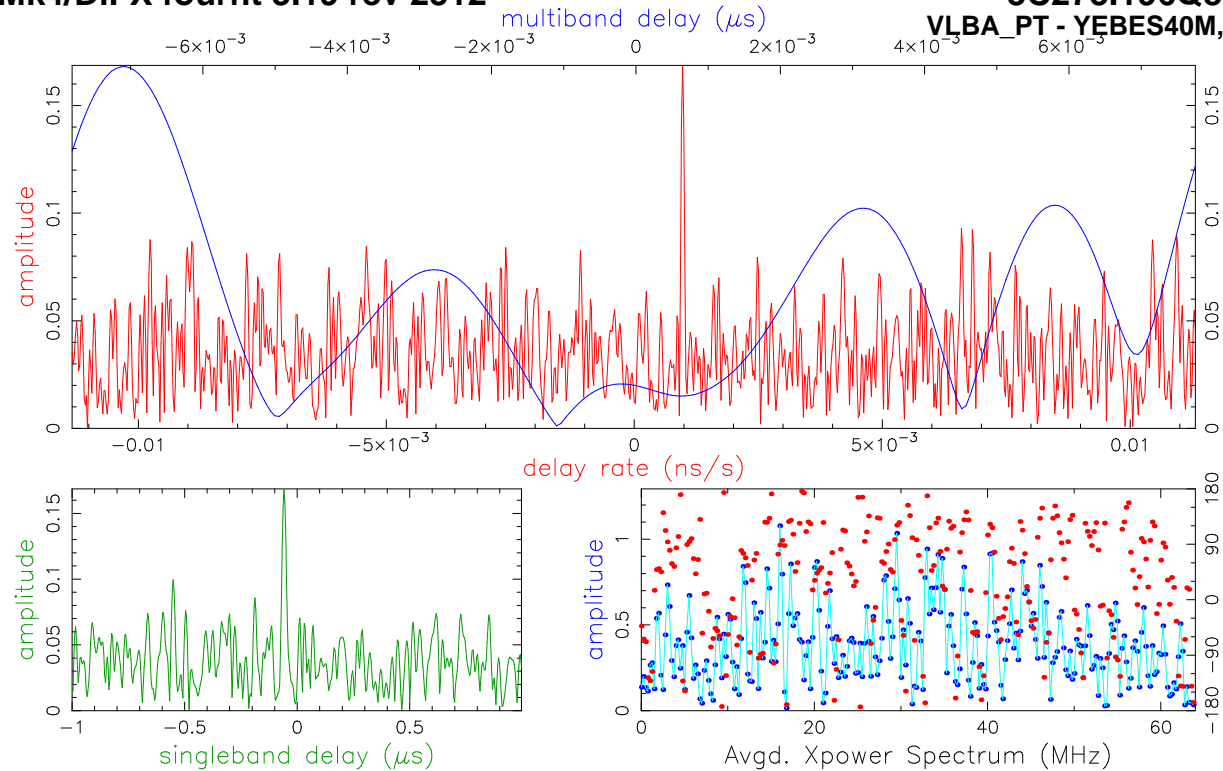
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.76785197177E+03									
Sband delay (usec)	-6.76785691161E+03									
Phase delay (usec)	-6.76712018174E+03									
Delay rate (us/s)	1.89334575989E+00									
Total phase (deg)			-164.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									135.4	+/- 20.0
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
PC period (AP's)	5	5								
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 62.1 47.9 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 79.4 83.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 33.0 28.2 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 51.4 49.3 Inc. frq. avg. 0.167 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
p: az 100.4 el 18.2 pa -54.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10831.610 -662.320 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.190.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, pY

VLBA_PT - YEBES40M, fgroup W, pol RR

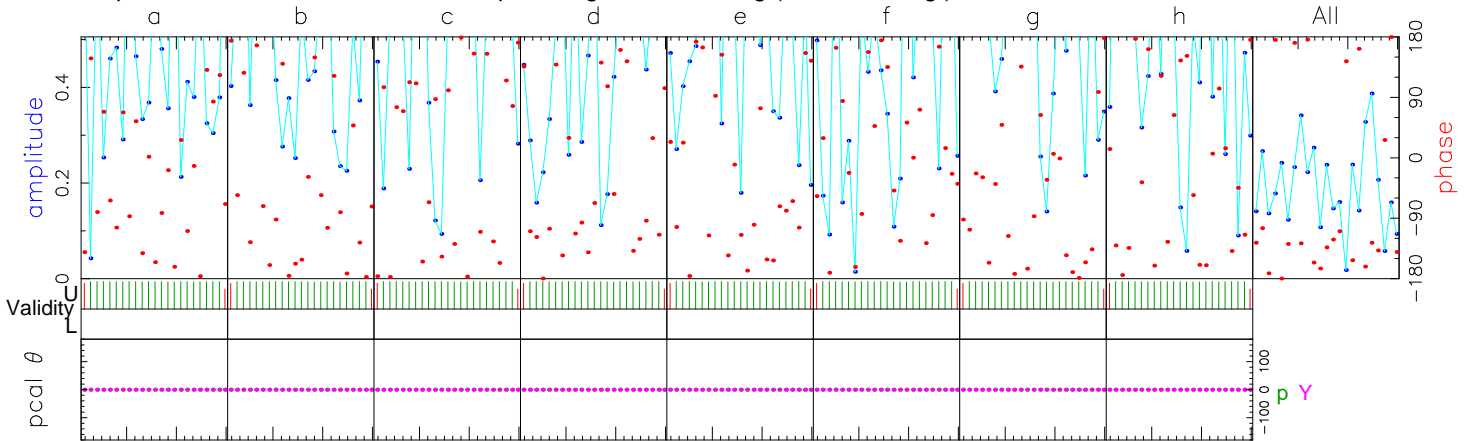


Fringe quality 0

SNR 6.0
 Int time 173.118
 Amp 0.169
 Phase -150.1
 PFD 1.7e-01
 Delays (us)
 SBD -0.058414
 MBD -0.007093
 Fringe rate (Hz)
 0.084738
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

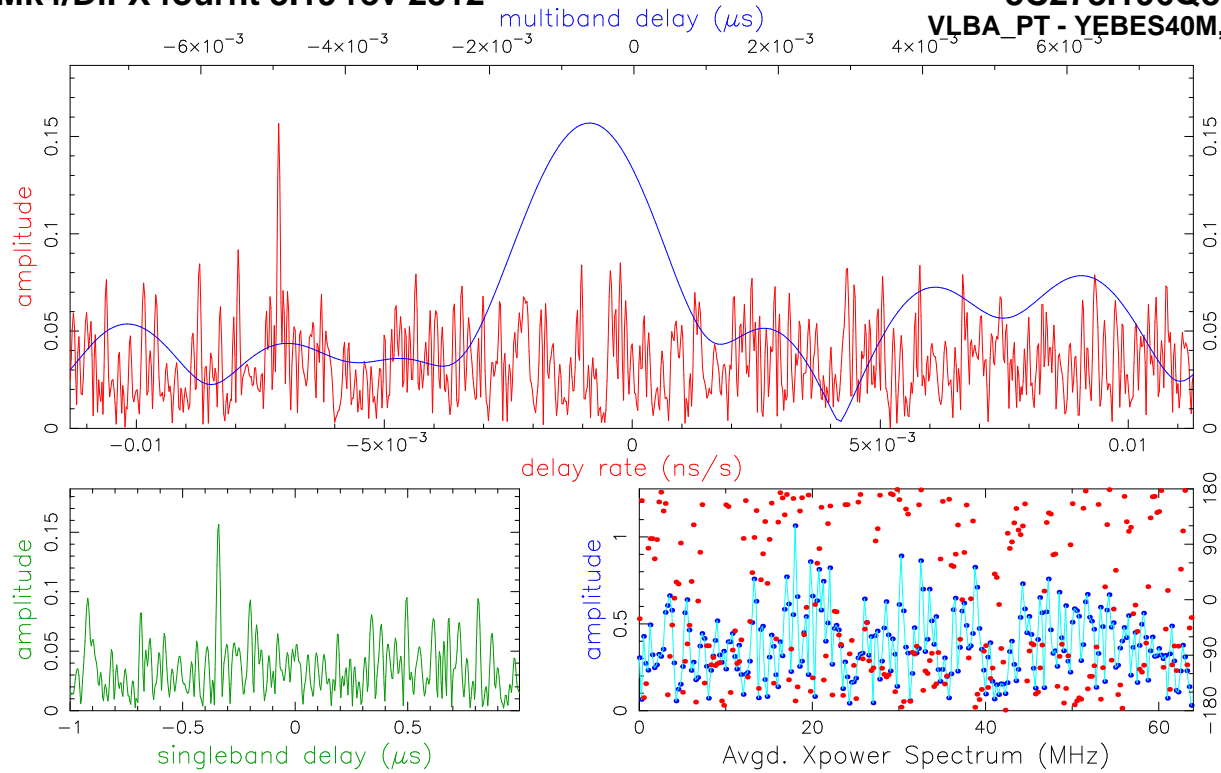
Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004005.12
 Stop 004259.71
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153503
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



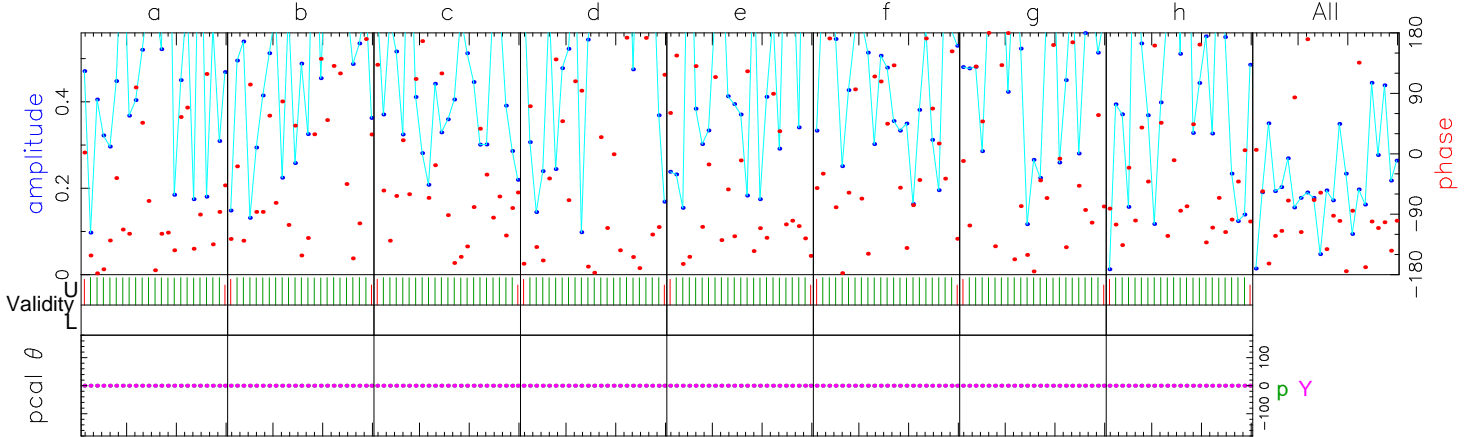
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.6	-145.0	159.4	-145.0	-151.6	13.4	-131.7	-155.4	Phase	-150.1
	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.3	Ampl.	0.2
	461.2	292.9	412.9	162.6	99.8	49.7	109.0	242.7	Sbd box	242.0
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.76717415416E+03		Apriori delay (usec)		-6.76712018611E+03		Resid mbdelay (usec)		-7.09305E-03	+/- 1.8E-04
Sband delay (usec)	-6.76717860011E+03		Apriori clock (usec)		5.3174667E+00		Resid sbdelay (usec)		-5.84140E-02	+/- 1.4E-03
Phase delay (usec)	-6.76712019095E+03		Apriori clockrate (us/s)		-1.6000005E-08		Resid phdelay (usec)		-4.83935E-06	+/- 6.1E-07
Delay rate (us/s)	1.89335014959E+00		Apriori rate (us/s)		1.89334916587E+00		Resid rate (us/s)		9.83729E-07	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		3.56825978383E-05		Resid phase (deg)		-150.1	+/- 18.9

ph/seg (deg) 47.7 45.4 Search (1024X32) 0.161 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.2 79.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.4 26.8 Inc. seg. avg. 0.149 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.1 46.8 Inc. frq. avg. 0.185 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 100.4 el 18.2 pa -54.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10831.610 -662.320 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.201.196Q8V simultaneous interpolator



Fringe quality 0
SNR 5.7
Int time 173.118
Amp 0.187
Phase -118.4
PFD 8.2e-01
Delays (us)
SBD -0.340943
MBD -0.000685
Fringe rate (Hz)
-0.614173
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004005.12
Stop 004259.71
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153505
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



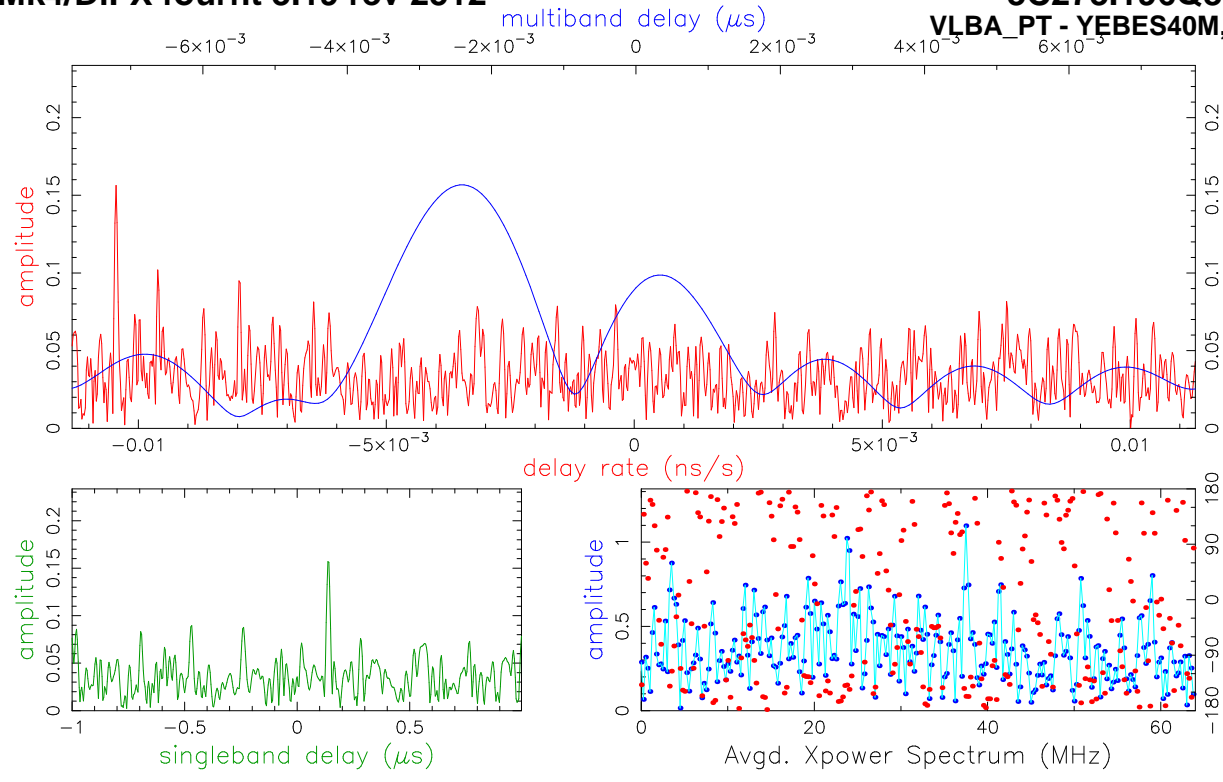
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-111.7	-108.1	-92.7	-159.1	-132.6	-109.2	-142.9	-80.7	Phase	-118.4
	0.2	0.0	0.2	0.3	0.3	0.1	0.2	0.3	Ampl.	0.2
	251.0	384.6	353.8	463.4	420.0	415.9	446.8	71.8	Sbd box	169.7
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.76746462134E+03		Apriori delay (usec)		-6.76712018611E+03		Resid mbdelay (usec)		-6.85232E-04	+/- 1.9E-04
Sband delay (usec)	-6.76746112886E+03		Apriori clock (usec)		5.3174667E+08		Resid sbdelay (usec)		-3.40943E-01	+/- 1.5E-03
Phase delay (usec)	-6.76712018993E+03		Apriori clockrate (us/s)		-1.6000005E-08		Resid phdelay (usec)		-3.81821E-06	+/- 6.5E-07
Delay rate (us/s)	1.89334203592E+00		Apriori rate (us/s)		1.89334916587E+00		Resid rate (us/s)		-7.12994E-06	+/- 6.5E-09
Total phase (deg)			Apriori accel (us/s/s)		3.56825978383E-05		Resid phase (deg)		-118.4	+/- 20.2

ph/seg (deg) 59.5 48.4 Search (1024X32) 0.156 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 75.8 84.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.2 28.6 Inc. seg. avg. 0.190 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 51.8 49.9 Inc. frq. avg. 0.185 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
p: az 100.4 el 18.2 pa -54.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10831.610 -662.320 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.213.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, pY

VLBA_PT - YEYES40M, fgroup W, pol RL

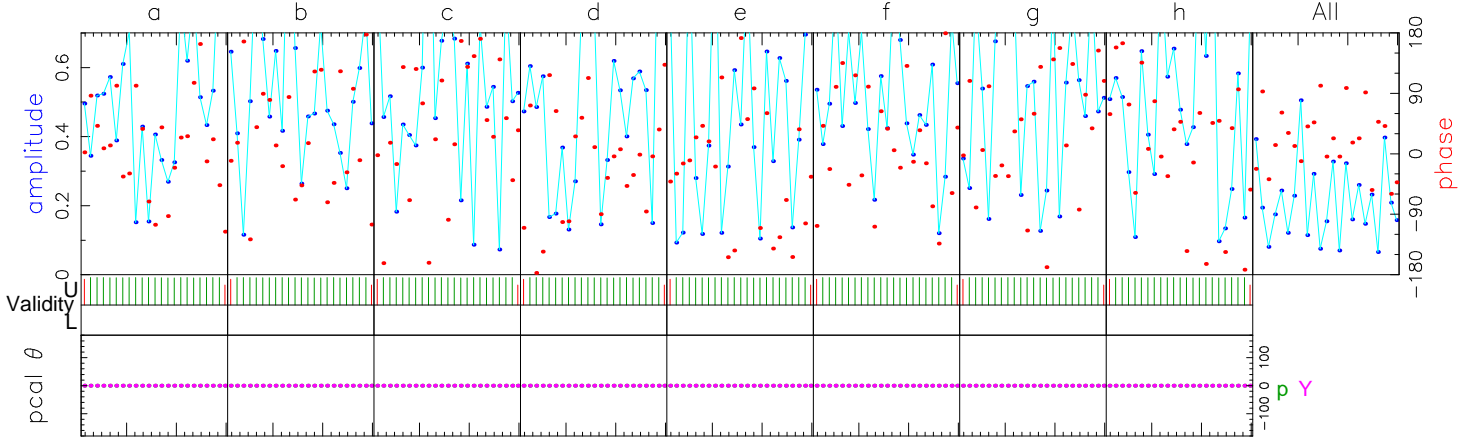


Fringe quality 0

SNR 5.8
 Int time 173.118
 Amp 0.234
 Phase 20.1
 PFD 6.7e-01
 Delays (us)
 SBD 0.138609
 MBD -0.002483
 Fringe rate (Hz)
 -0.902059
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004005.12
 Stop 004259.71
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153508
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

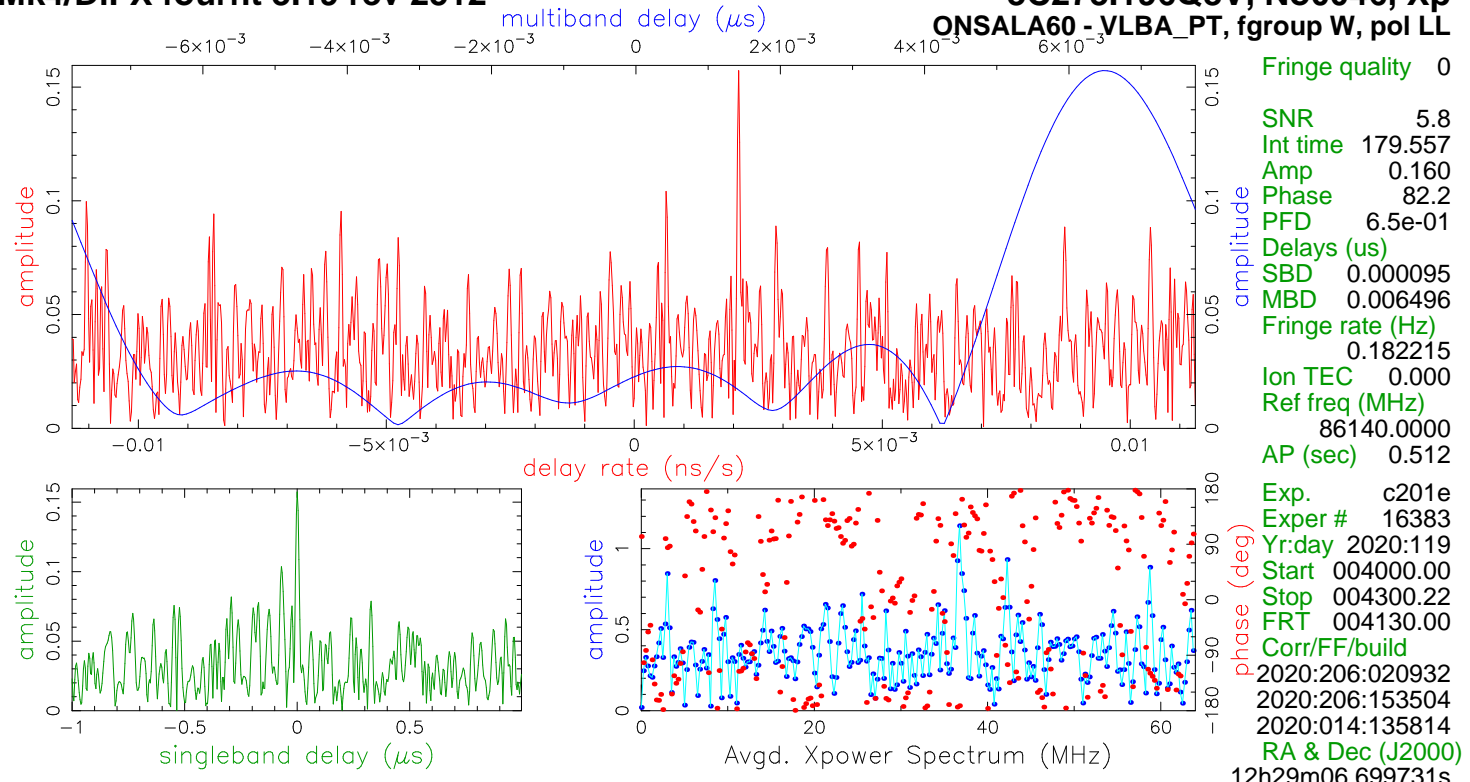


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.76698204432E+03				-6.76712018611E+03				-2.48320E-03	+/- 1.9E-04
Sband delay (usec)	-6.76698157686E+03				5.3174667E+00				1.38609E-01	+/- 1.5E-03
Phase delay (usec)	-6.76712018546E+03				-1.6000005E-08				6.47559E-07	+/- 6.4E-07
Delay rate (us/s)	1.89333869386E+00				1.89334916587E+00				-1.04720E-05	+/- 6.4E-09
Total phase (deg)			-279.3		3.56825978383E-05				20.1	+/- 19.9
	RMS	Theor.	Amplitude	0.234 +/- 0.041	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	46.6	47.8	Search (1024X32)	0.156	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	79.3	83.4	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	33.8	28.2	Inc. seg. avg.	0.233	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	25.1	49.2	Inc. frq. avg.	0.229	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
p: az 100.4 el 18.2 pa -54.4			Y: az 229.4 el 39.6 pa 35.3		u,v (fr/asec) -10831.610 -662.320					simultaneous interpolator

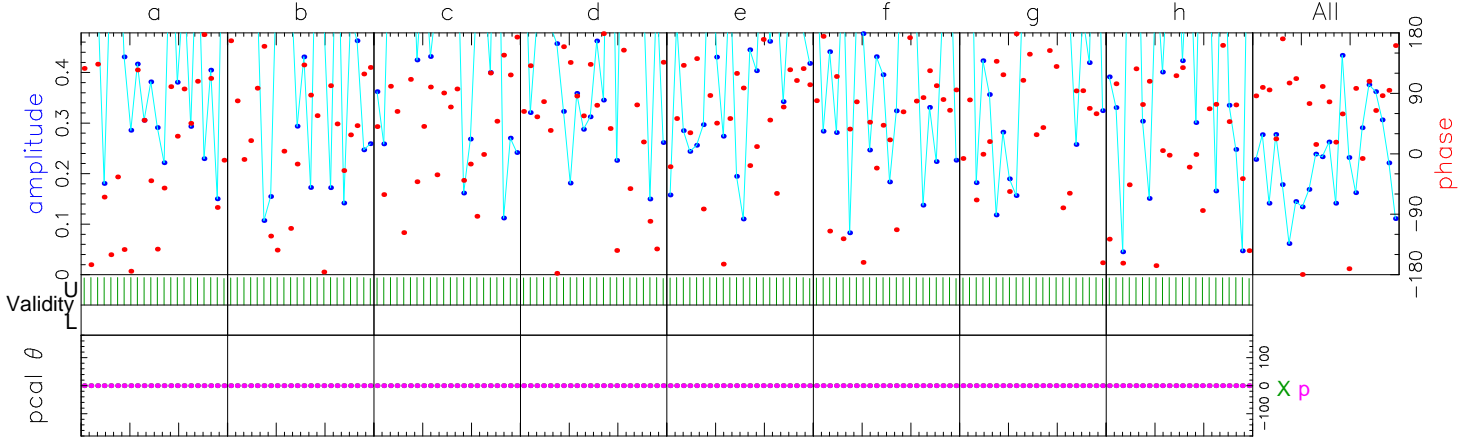
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.231.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Xp
ONSALA60 - VLBA_PT, fgroup W, pol LL



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	116.1	68.6	61.7	88.5	83.5	95.1	72.1	95.7		82.2
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1		0.1
	386.9	275.5	19.9	427.2	259.5	44.9	107.3	212.9		257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.06572365900E+03	Apriori delay (usec)	1.06571716304E+03	Resid mbdelay (usec)	6.49595E-03	+/-	1.9E-04
Sband delay (usec)	1.06571725804E+03	Apriori clock (usec)	2.3530787E+01	Resid sbdelay (usec)	9.50000E-05	+/-	1.5E-03
Phase delay (usec)	1.06571716570E+03	Apriori clockrate (us/s)	3.2400002E-07	Resid phdelay (usec)	2.65204E-06	+/-	6.4E-07
Delay rate (us/s)	-1.84895490757E+00	Apriori rate (us/s)	-1.84895702290E+00	Resid rate (us/s)	2.11534E-06	+/-	6.2E-09
Total phase (deg)	235.1	Apriori accel (us/s/s)	-4.47549307860E-06	Resid phase (deg)	82.2	+/-	19.9

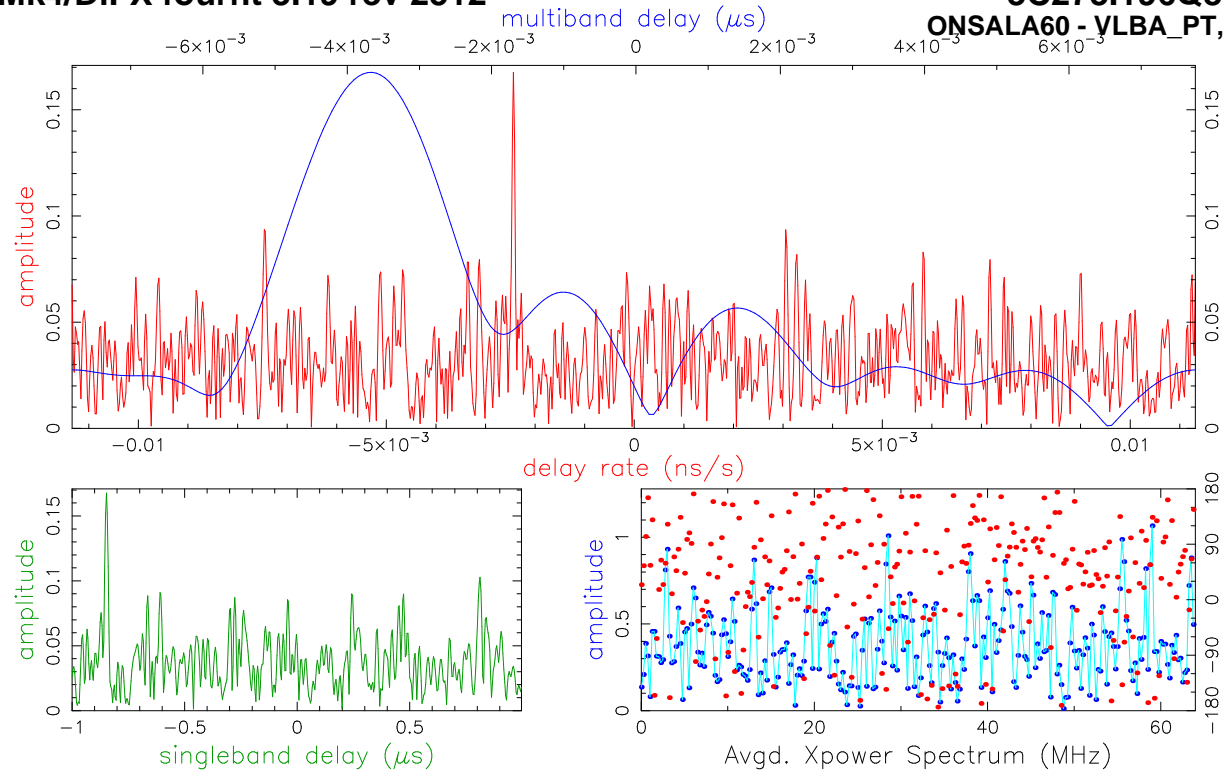
ph/seg (deg)	52.1	Theor.	46.6	Amplitude	0.160 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.6		81.4	Search (1024X32)	0.148	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	19.3		28.1	Inc. seg. avg.	0.173	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	33.5		49.1	Inc. frq. avg.	0.147	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

X: az 236.5 el 21.6 pa 26.8 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10593.635 2453.593 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Xp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Xp.W.204.196Q8V

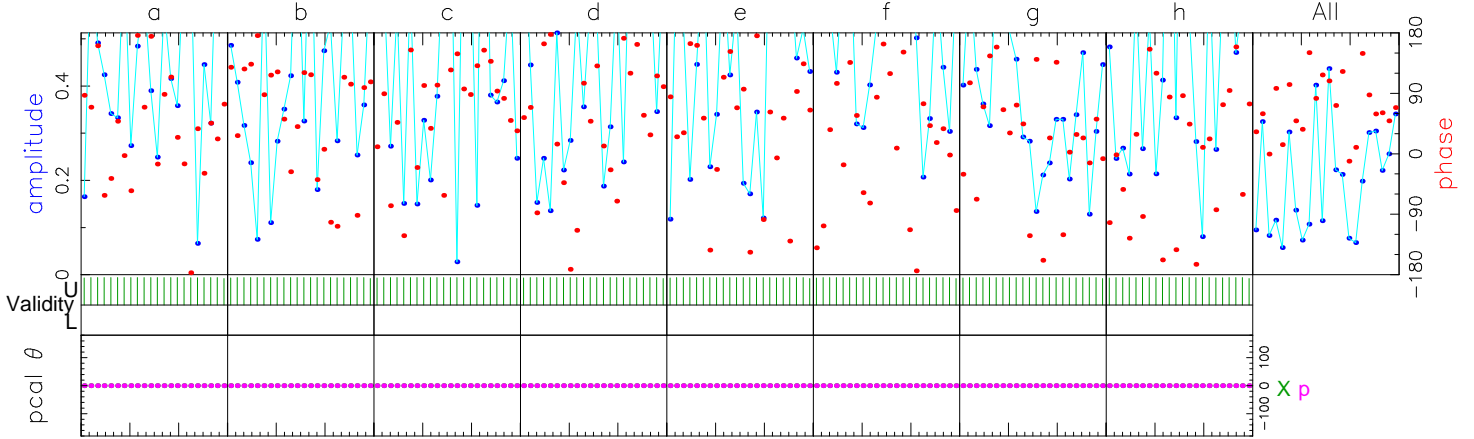
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Xp
 ONSALA60 - VLBA_PT, fgroup W, pol RR



Fringe quality 0
 SNR 6.1
 Int time 179.557
 Amp 0.171
 Phase 78.8
 PFD 1.0e-01
 Delays (us)
 SBD -0.847555
 MBD -0.003675
 Fringe rate (Hz)
 -0.210978
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153506
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
47.2	91.1	95.9	79.8	78.4	78.4	96.9	57.1	79.7	Phase	78.8
0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.2	Ampl.	0.2
106.0	319.9	38.7	194.7	209.8	194.2	376.1	324.0	324.0	Sbd box	40.0
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06486973841E+03		Apriori delay (usec)	1.06571716304E+03		Resid mbdelay (usec)	-3.67464E-03	+/-	1.8E-04	
Sband delay (usec)	1.06486960804E+03		Apriori clock (usec)	2.3530787E+01		Resid sbdelay (usec)	-8.47555E-01	+/-	1.4E-03	
Phase delay (usec)	1.06571716559E+03		Apriori clockrate (us/s)	3.2400002E-07		Resid phdelay (usec)	2.54258E-06	+/-	6.0E-07	
Delay rate (us/s)	-1.84895947214E+00		Apriori rate (us/s)	-1.84895702290E+00		Resid rate (us/s)	-2.44924E-06	+/-	5.8E-09	
Total phase (deg)		231.7	Apriori accel (us/s/s)	-4.47549307860E-06		Resid phase (deg)	78.8	+/-	18.7	

RMS Theor. Amplitude 0.171 +/- 0.028
 ph/seg (deg) 45.6 43.7 Search (1024X32) 0.161
 amp/seg (%) 71.3 76.3 Interp. 0.000
 ph/frq (deg) 19.3 26.4 Inc. seg. avg. 0.160
 amp/frq (%) 33.9 46.0 Inc. frq. avg. 0.161

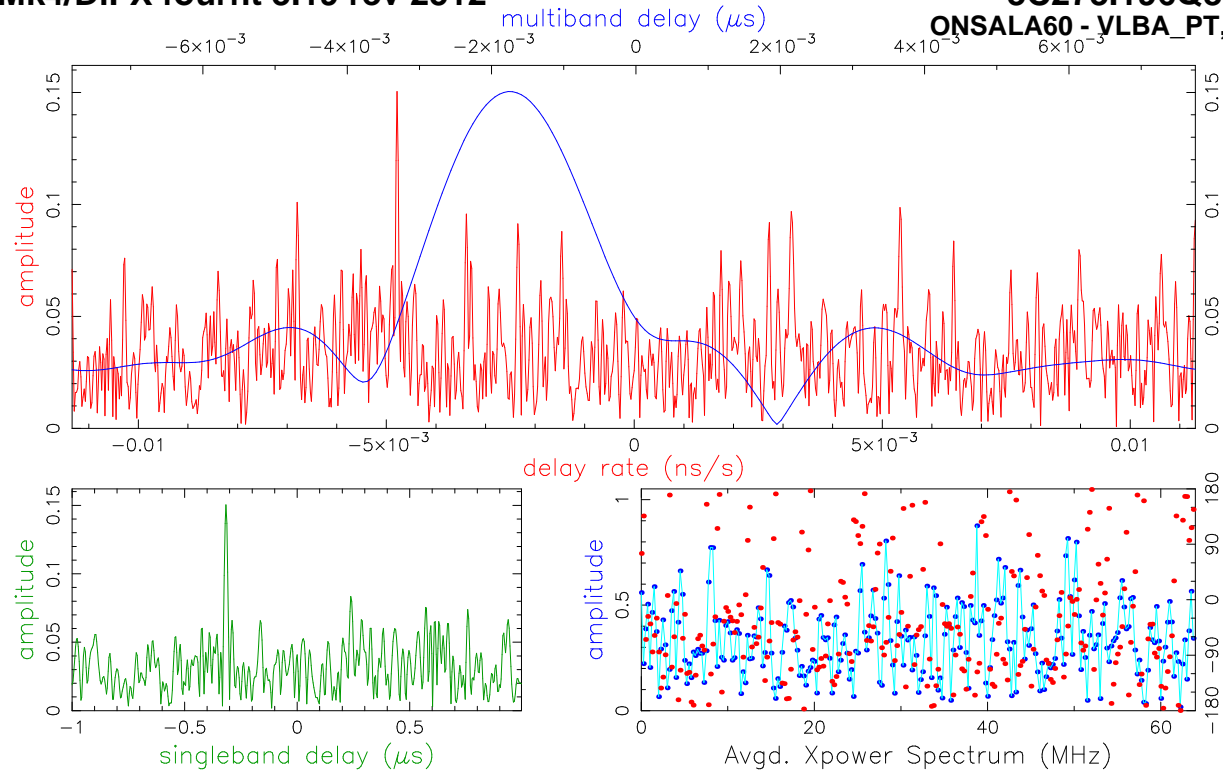
Group delay (usec)(sbd) 1.06486973841E+03 Apriori delay (usec) 1.06571716304E+03 Resid mbdelay (usec) -3.67464E-03 +/- 1.8E-04
 Sband delay (usec) 1.06486960804E+03 Apriori clock (usec) 2.3530787E+01 Resid sbdelay (usec) -8.47555E-01 +/- 1.4E-03
 Phase delay (usec) 1.06571716559E+03 Apriori clockrate (us/s) 3.2400002E-07 Resid phdelay (usec) 2.54258E-06 +/- 6.0E-07
 Delay rate (us/s) -1.84895947214E+00 Apriori rate (us/s) -1.84895702290E+00 Resid rate (us/s) -2.44924E-06 +/- 5.8E-09
 Total phase (deg) 231.7 Apriori accel (us/s/s) -4.47549307860E-06 Resid phase (deg) 78.8 +/- 18.7

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 236.5 el 21.6 pa 26.8 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10593.635 2453.593 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Xp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Xp.W.218.196Q8V

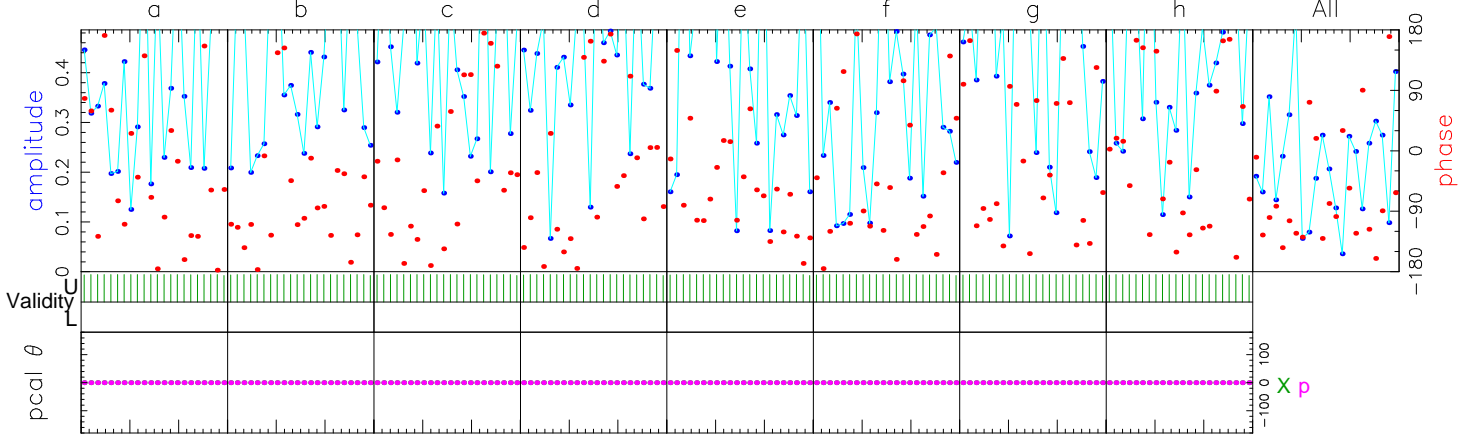
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Xp
 ONSALA60 - VLBA_PT, fgroup W, pol LR



Fringe quality 0
 SNR 5.5
 Int time 179.557
 Amp 0.162
 Phase -103.1
 PFD 9.9e-01
 Delays (us)
 SBD -0.316433
 MBD -0.001748
 Fringe rate (Hz)
 -0.413376
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153507
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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

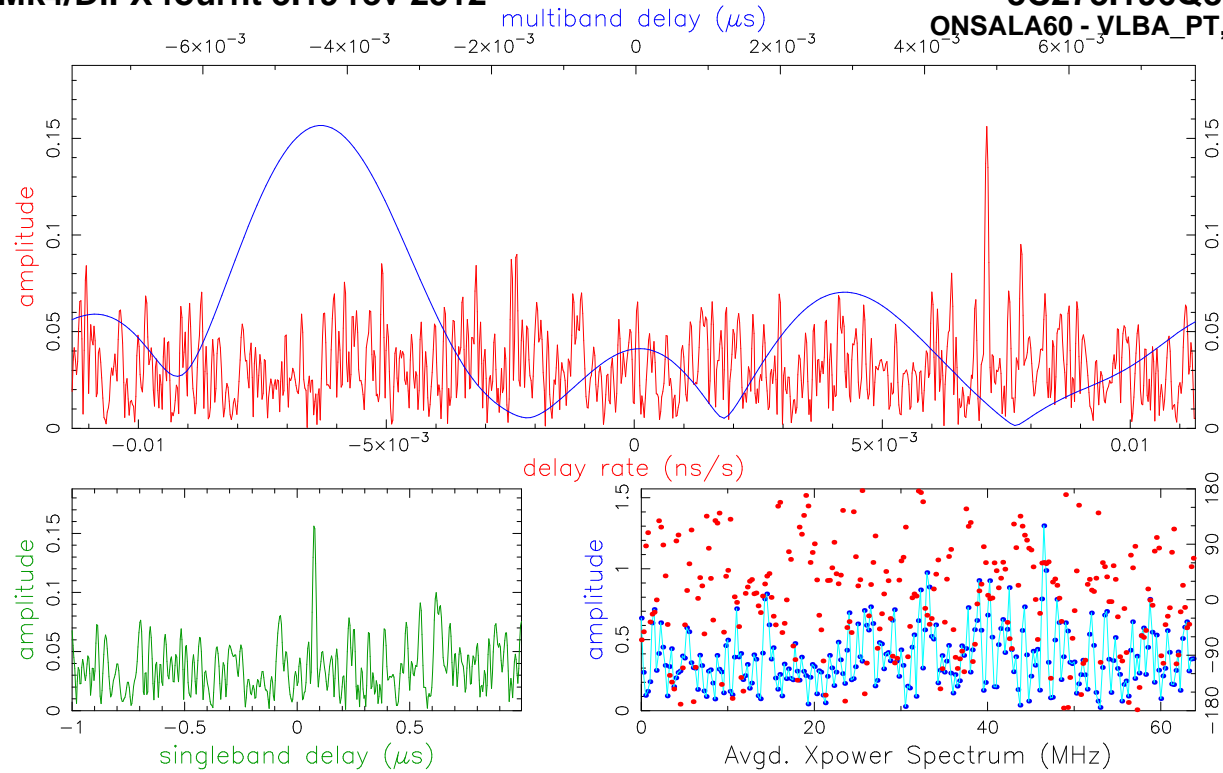


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.1	-108.4	-99.6	-105.3	-65.7	-114.9	-117.7	-122.8	Phase	-103.1
	0.1	0.3	0.1	0.2	0.3	0.2	0.1	0.1	Ampl.	0.2
	365.6	175.7	405.1	498.1	176.5	154.5	439.7	255.7	Sbd box	176.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.06540291455E+03		Apriori delay (usec)		1.06571716304E+03		Resid mbdelay (usec)		-1.74849E-03	+/- 2.0E-04
Sband delay (usec)	1.06540073004E+03		Apriori clock (usec)		2.3530787E+01		Resid sbdelay (usec)		-3.16433E-01	+/- 1.6E-03
Phase delay (usec)	1.06571715972E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		-3.32482E-06	+/- 6.7E-07
Delay rate (us/s)	-1.84896182179E+00		Apriori rate (us/s)		-1.84895702290E+00		Resid rate (us/s)		-4.79889E-06	+/- 6.4E-09
Total phase (deg)	49.8		Apriori accel (us/s/s)		-4.47549307860E-06		Resid phase (deg)		-103.1	+/- 20.8

ph/seg (deg) 73.9 48.8 Search (1024X32) 0.146 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 90.2 85.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.9 29.4 Inc. seg. avg. 0.175 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.1 51.3 Inc. frq. avg. 0.152 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 236.5 el 21.6 pa 26.8 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10593.635 2453.593 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Xp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Xp.W.229.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Xp
ONSALA60 - VLBA_PT, fgroup W, pol RL

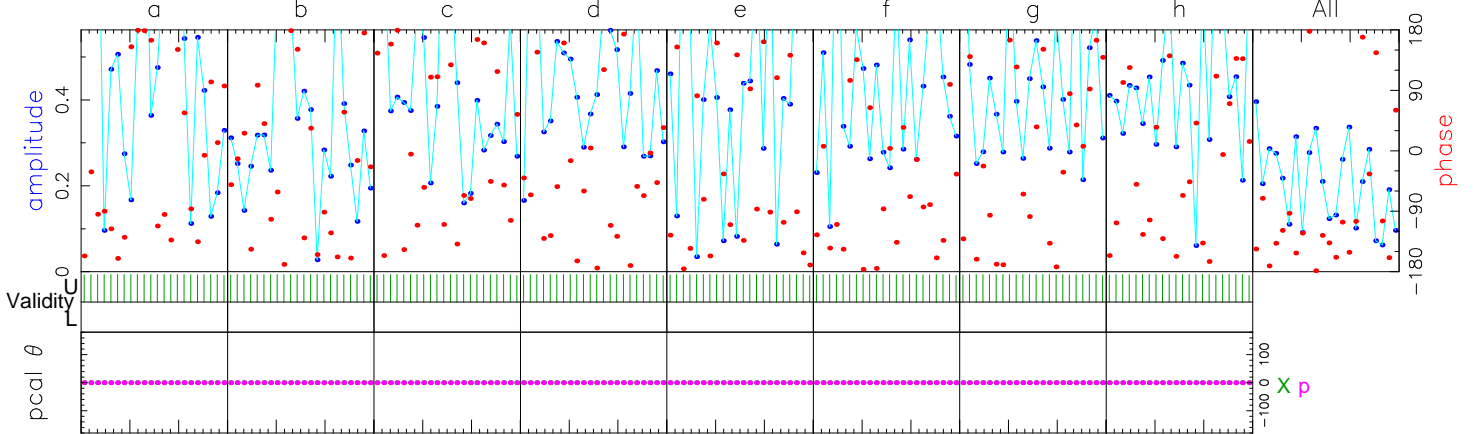


Fringe quality 0

SNR 5.8
Int time 179.557
Amp 0.188
Phase -142.0
PFD 5.3e-01
Delays (us)
SBD 0.075867
MBD -0.004267
Fringe rate (Hz) 0.612685
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153510
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

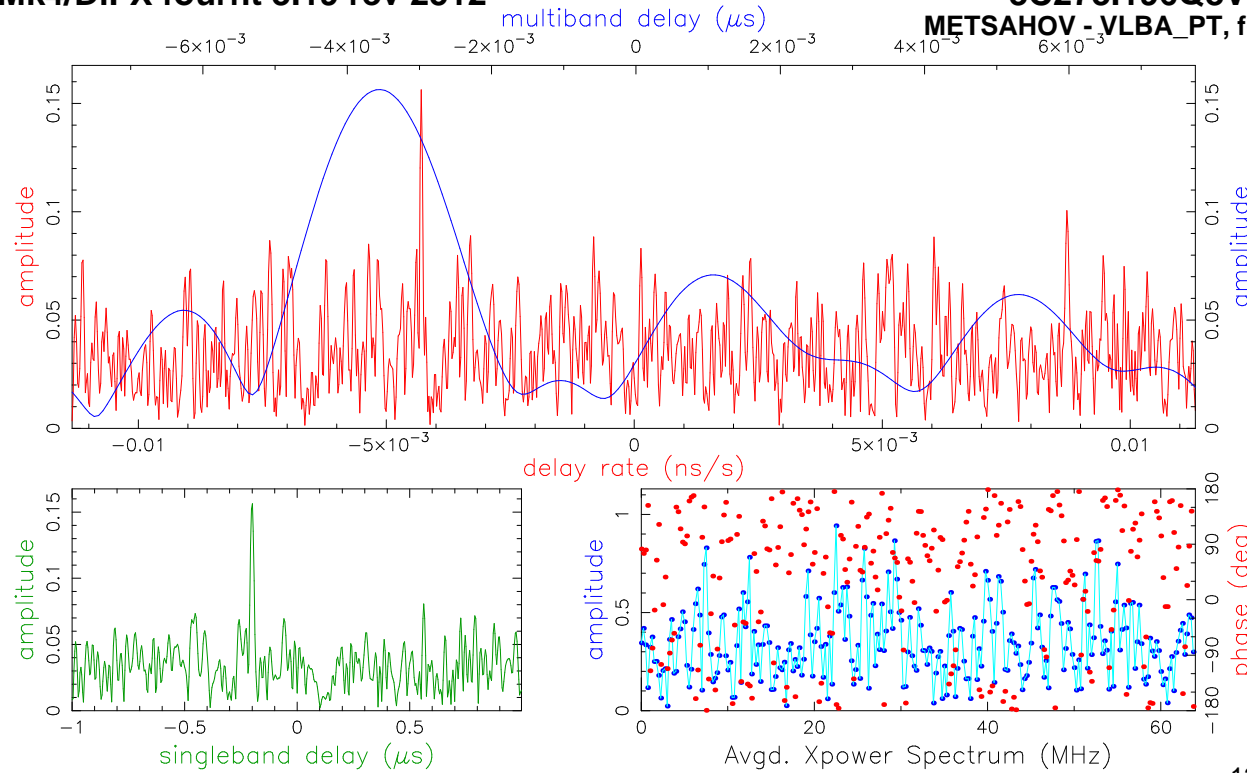


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.9	-142.6	-154.9	-102.4	-140.8	-120.6	171.2	-164.7	Phase	-142.0
	0.3	0.1	0.2	0.2	0.4	0.2	0.2	0.1	Ampl.	0.2
	381.3	75.1	48.4	145.1	276.8	338.0	331.7	173.0	Sbd box	276.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06579102061E+03		Apriori delay (usec)		1.06571716304E+03		Resid mbdelay (usec)		-4.26744E-03	+/- 1.9E-04
Sband delay (usec)	1.06579303029E+03		Apriori clock (usec)		2.3530787E+01		Resid sbdelay (usec)		7.58673E-02	+/- 1.5E-03
Phase delay (usec)	1.06571715846E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		-4.58003E-06	+/- 6.4E-07
Delay rate (us/s)	-1.84894991024E+00		Apriori rate (us/s)		-1.84895702290E+00		Resid rate (us/s)		7.11266E-06	+/- 6.1E-09
Total phase (deg)	10.8		Apriori accel (us/s/s)		-4.47549307860E-06		Resid phase (deg)		-142.0	+/- 19.7

ph/seg (deg) 52.5 46.2 Amplitude 0.188 +/- 0.032 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.1 80.6 Search (1024X32) 0.155 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.6 27.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 47.5 48.6 Inc. seg. avg. 0.186 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
X: az 236.5 el 21.6 pa 26.8 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10593.635 2453.593 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Xp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Xp.W.245.196Q8V

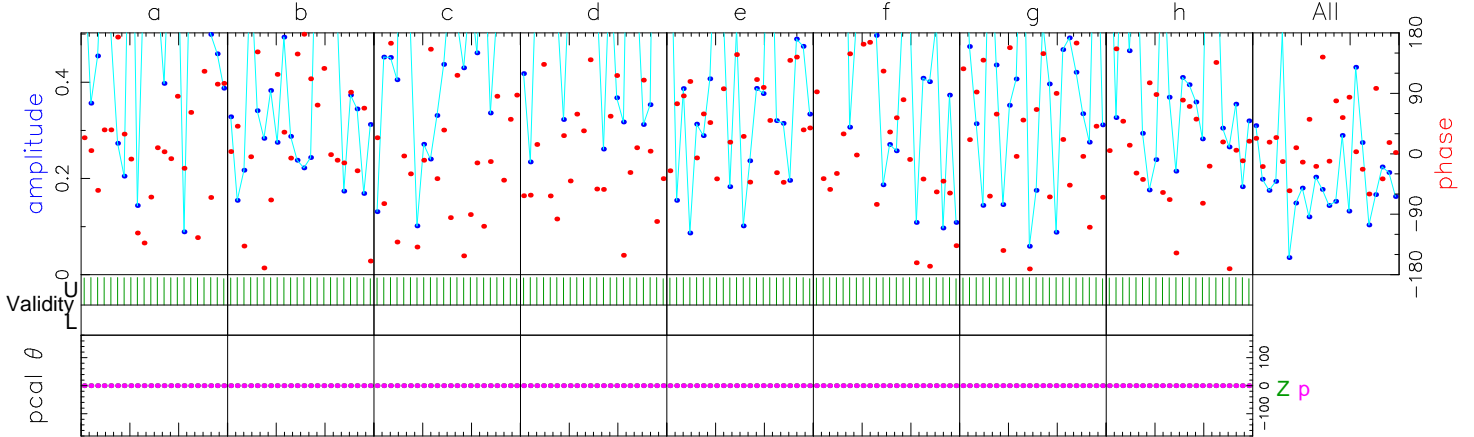
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zp
 METSAHOV - VLBA_PT, fgroup W, pol LL



Fringe quality 0
 SNR 5.8
 Int time 179.262
 Amp 0.168
 Phase 9.8
 PFD 6.1e-01
 Delays (us)
 SBD -0.200561
 MBD -0.003594
 Fringe rate (Hz)
 -0.369660
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153505
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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

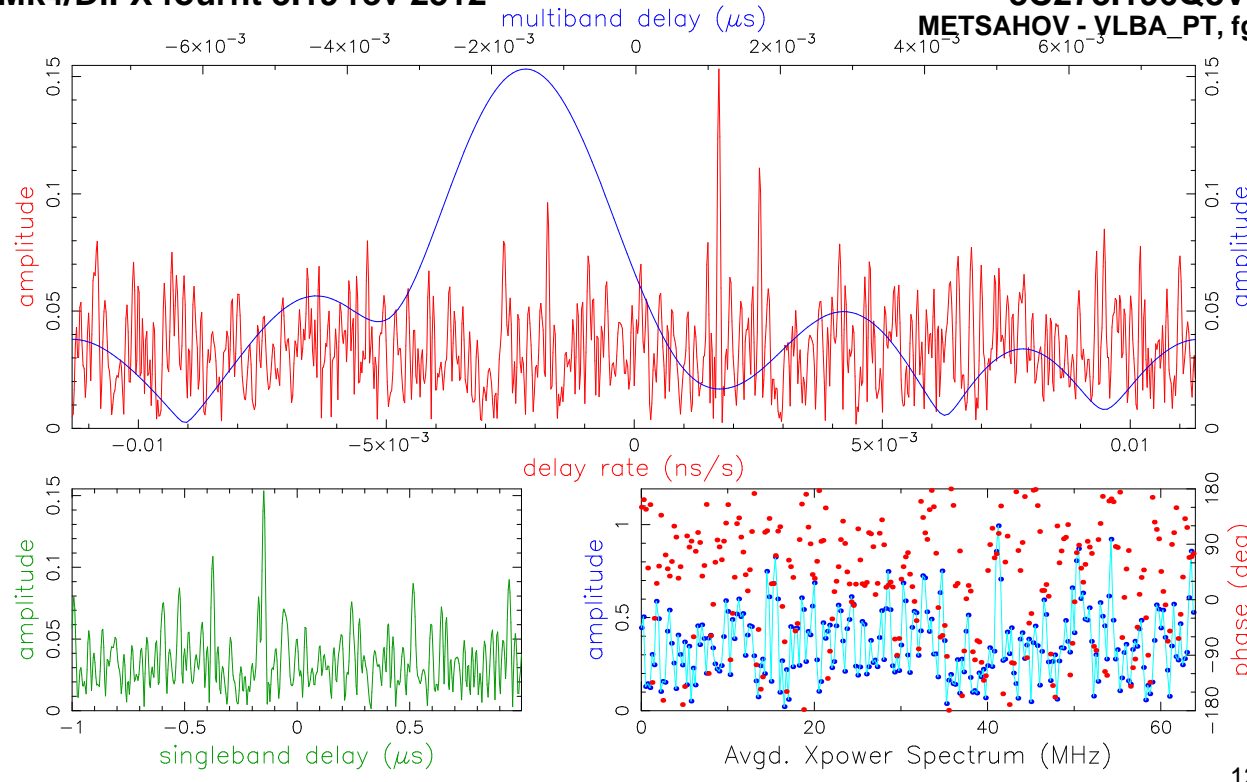


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.45662714195E+03	Apriori delay (usec)	-1.45642042260E+03	Resid mbdelay (usec)	-3.59435E-03	+/-	1.9E-04
Sband delay (usec)	-1.45662098385E+03	Apriori clock (usec)	-1.7424257E+01	Resid sbdelay (usec)	-2.00561E-01	+/-	1.5E-03
Phase delay (usec)	-1.45642042228E+03	Apriori clockrate (us/s)	-1.8799999E-07	Resid phdelay (usec)	3.15831E-07	+/-	6.4E-07
Delay rate (us/s)	-1.88823257109E+00	Apriori rate (us/s)	-1.88822827970E+00	Resid rate (us/s)	-4.29138E-06	+/-	6.1E-09
Total phase (deg)	-63.1	Apriori accel (us/s/s)	8.81522103907E-06	Resid phase (deg)	9.8	+/-	19.8

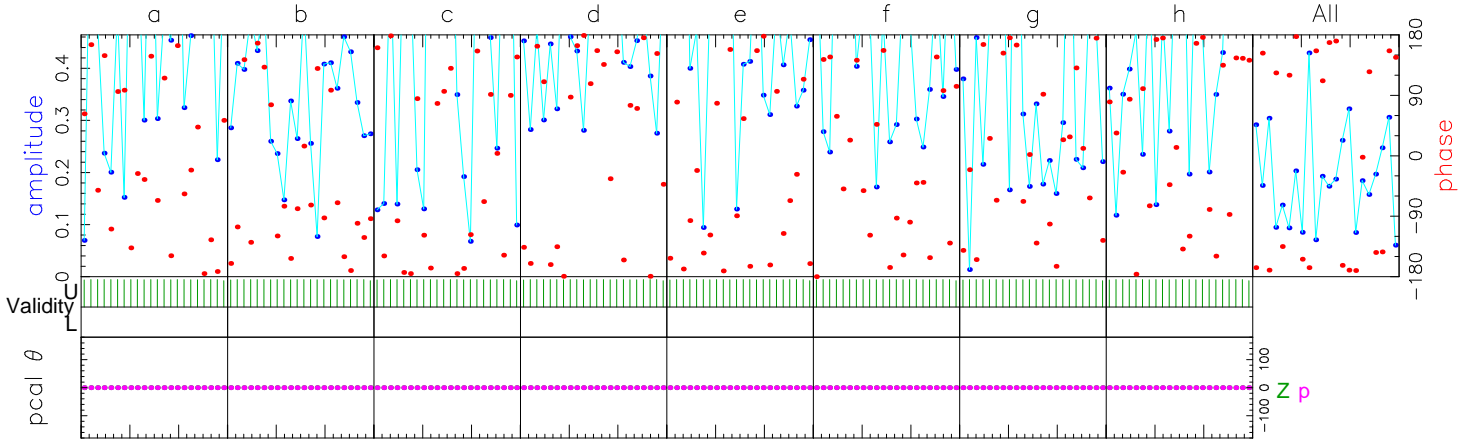
ph/seg (deg)	50.3	Theor.	46.5	Amplitude	0.168 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	71.8		81.1	Search (1024X32)	0.150	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	30.6		28.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	24.1		48.9	Inc. seg. avg.	0.165	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.165	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

Z: az 247.3 el 14.6 pa 27.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10825.529 2715.584 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zp.W.215.196Q8V



Fringe quality 0
 SNR 5.6
 Int time 179.262
 Amp 0.155
 Phase 179.4
 PFD 9.1e-01
 Delays (us)
 SBD -0.148733
 MBD -0.001536
 Fringe rate (Hz)
 0.147409
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153507
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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

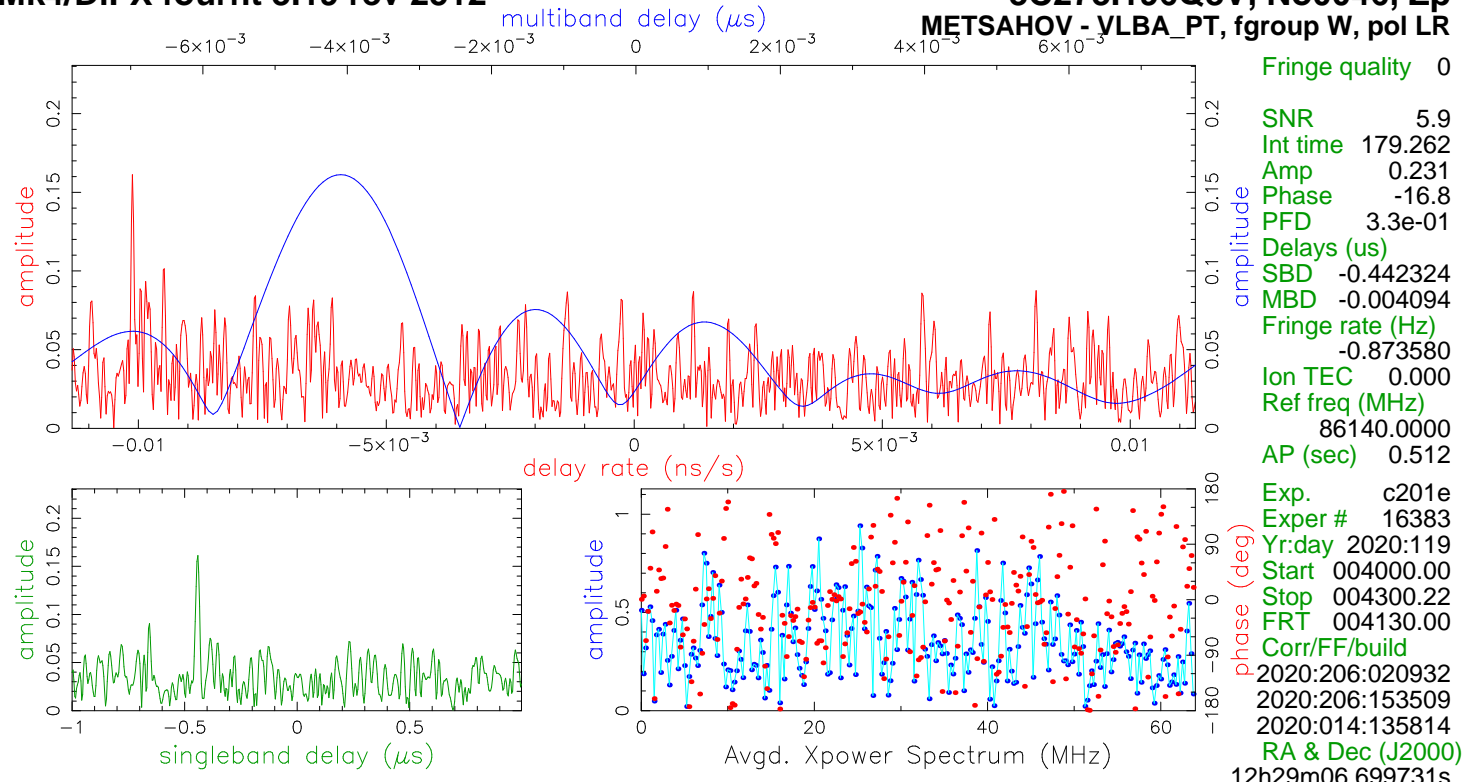


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-178.7	-139.1	160.6	161.3	-178.3	-161.7	-159.4	179.2	Phase	179.4
	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.2	Ampl.	0.1
	161.0	121.7	220.1	219.6	155.8	242.0	382.8	123.9	Sbd box	218.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.45656258365E+03		Apriori delay (usec)		-1.45642042260E+03		Resid mbdelay (usec)		-1.53605E-03	+/- 1.9E-04
Sband delay (usec)	-1.45656915560E+03		Apriori clock (usec)		-1.7424257E+01		Resid sbdelay (usec)		-1.48733E-01	+/- 1.5E-03
Phase delay (usec)	-1.45642041681E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		5.78500E-06	+/- 6.6E-07
Delay rate (us/s)	-1.88822656844E+00		Apriori rate (us/s)		-1.88822827970E+00		Resid rate (us/s)		1.71127E-06	+/- 6.3E-09
Total phase (deg)			Apriori accel (us/s/s)		8.81522103907E-06		Resid phase (deg)		179.4	+/- 20.4

ph/seg (deg) RMS Theor. Amplitude 0.155 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.9 83.5 Search (1024X32) 0.149 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.1 28.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.4 50.4 Inc. seg. avg. 0.145 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 247.3 el 14.6 pa 27.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10825.529 2715.584 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zp.W.227.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zp
 METSAHOV - VLBA_PT, fgroup W, pol LR



Fringe quality 0

SNR 5.9

Int time 179.262

Amp 0.231

Phase -16.8

PFD 3.3e-01

Delays (us)

SBD -0.442324

MBD -0.004094

Fringe rate (Hz)

-0.873580

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201e

Exper # 16383

Yr:day 2020:119

Start 004000.00

Stop 004300.22

FRT 004130.00

Corr/FF/build

2020:206:020932

2020:206:153509

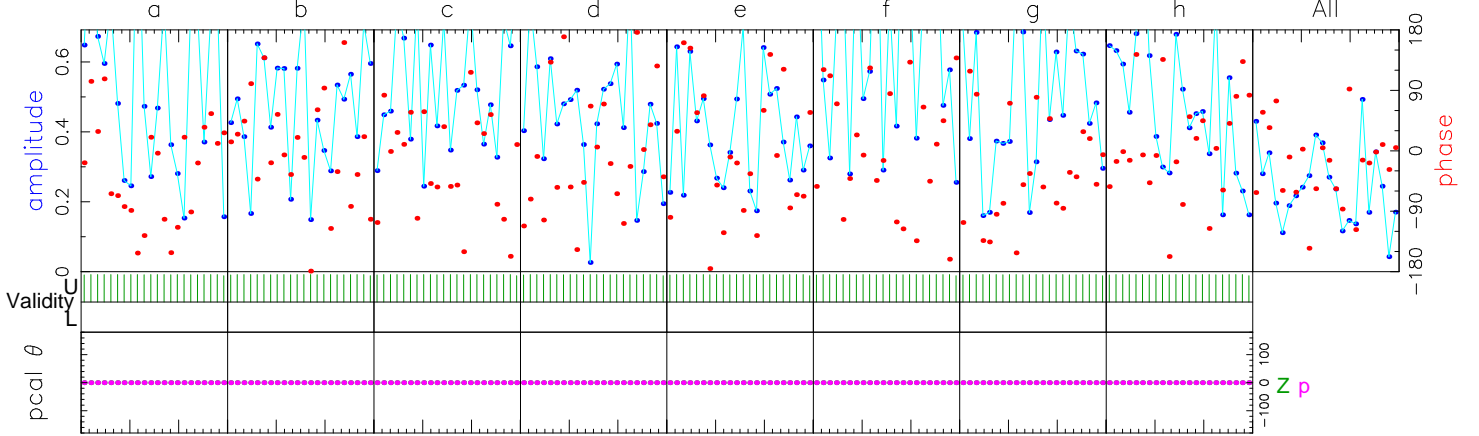
2020:014:135814

RA & Dec (J2000)

12h29m06.699731s

+02°03'08.598201"

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

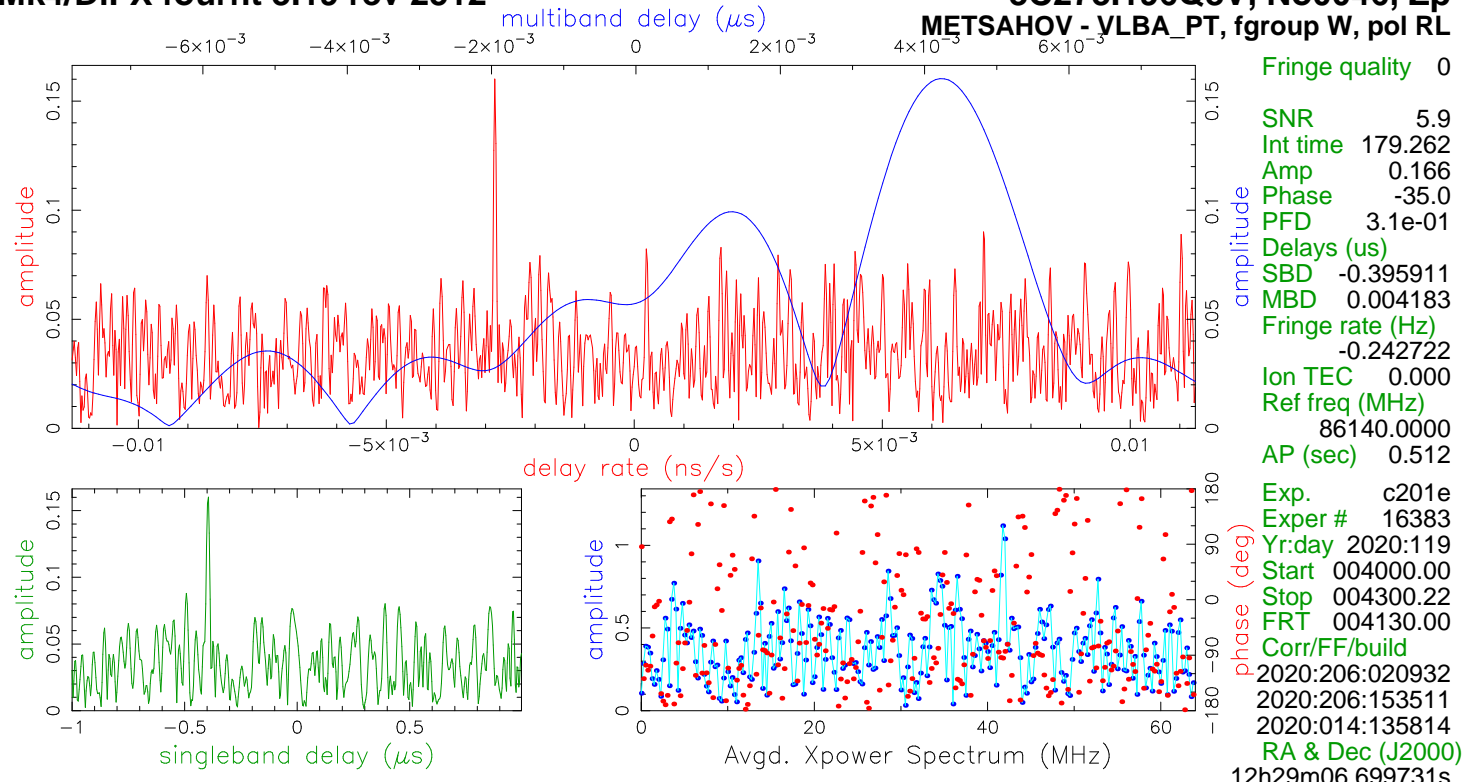


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-34.2	2.3	-7.4	-46.0	6.0	-2.4	-44.9	-2.7	Phase	-16.8	
	0.2	0.3	0.3	0.2	0.1	0.2	0.3	0.4	Ampl.	0.2	
	227.9	334.8	71.1	484.5	54.8	366.8	469.1	143.1	Sbd box	143.8	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
p	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-1.45686201702E+03		Apriori delay (usec)		-1.45642042260E+03		Resid mbdelay (usec)		-4.09443E-03	+/- 1.8E-04	
Sband delay (usec)	-1.45686274710E+03		Apriori clock (usec)		-1.7424257E+01		Resid sbdelay (usec)		-4.42324E-01	+/- 1.5E-03	
Phase delay (usec)	-1.45642042314E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-5.40208E-07	+/- 6.2E-07	
Delay rate (us/s)	-1.88823842110E+00		Apriori rate (us/s)		-1.88822827970E+00		Resid rate (us/s)		-1.01414E-05	+/- 6.0E-09	
Total phase (deg)			Apriori accel (us/s/s)		8.81522103907E-06		Resid phase (deg)		-16.8	+/- 19.3	
	RMS	Theor.	Amplitude	0.231 +/- 0.039		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	56.9	45.3	Search (1024X32)	0.155		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	85.7	79.1	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	23.6	27.3	Inc. seg. avg.	0.267		Sample rate(MISamp/s): 128		Data rate(Mb/s): 2048		dr window (ns/s)	-0.011 0.011
amp/frq (%)	35.3	47.7	Inc. frq. avg.	0.220		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
Z: az 247.3 el 14.6 pa 27.3	p: az 100.4 el 18.2 pa -54.4		u,v (fr/asec)		10825.529 2715.584				simultaneous interpolator		

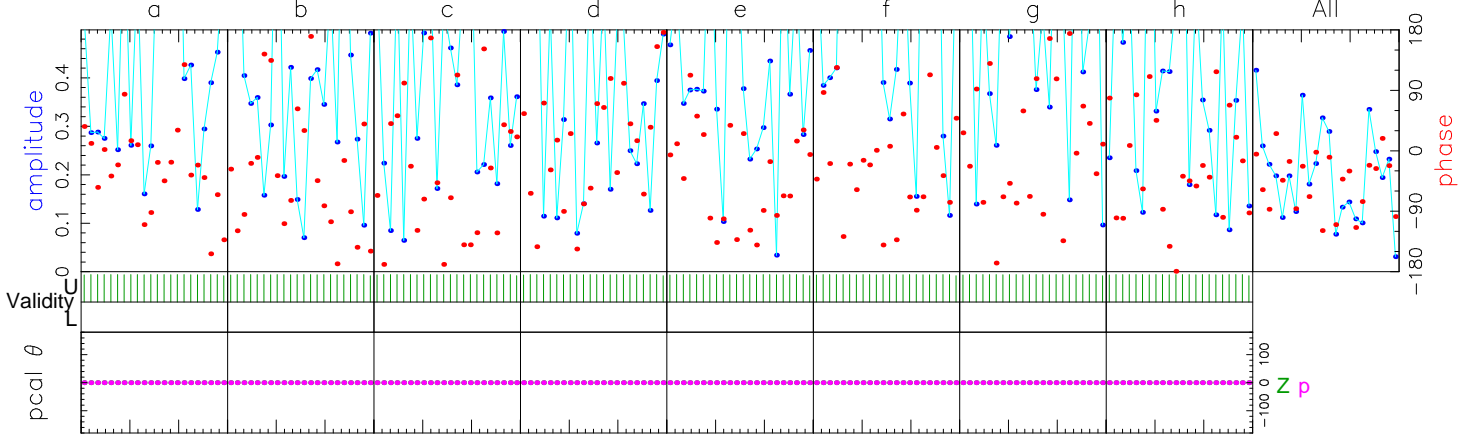
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zp.W.242.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zp
 METSAHOV - VLBA_PT, fgroup W, pol RL



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-14.1	-70.9	-97.0	-3.0	-27.9	-23.1	-28.6	-46.1	Phase	-35.0
	0.3	0.2	0.1	0.1	0.2	0.3	0.2	0.1	Ampl.	0.2
	354.9	241.8	161.6	436.8	175.7	341.8	279.9	458.1	Sbd box	155.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.45682248987E+03		Apriori delay (usec)		-1.45642042260E+03		Resid mbdelay (usec)		4.18273E-03	+/- 1.8E-04
Sband delay (usec)	-1.45681633385E+03		Apriori clock (usec)		-1.7424257E+01		Resid sbdelay (usec)		-3.95911E-01	+/- 1.5E-03
Phase delay (usec)	-1.45642042372E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-1.12774E-06	+/- 6.2E-07
Delay rate (us/s)	-1.88823109746E+00		Apriori rate (us/s)		-1.88822827970E+00		Resid rate (us/s)		-2.81776E-06	+/- 6.0E-09
Total phase (deg)			Apriori accel (us/s/s)		8.81522103907E-06		Resid phase (deg)		-35.0	+/- 19.3

	RMS	Theor.	Amplitude	0.166 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.5	45.3	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.8	79.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	34.1	27.3	Inc. seg. avg.	0.160	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	40.4	47.6	Inc. frq. avg.	0.162	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

Z: az 247.3 el 14.6 pa 27.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10825.529 2715.584 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zp.W.253.196Q8V