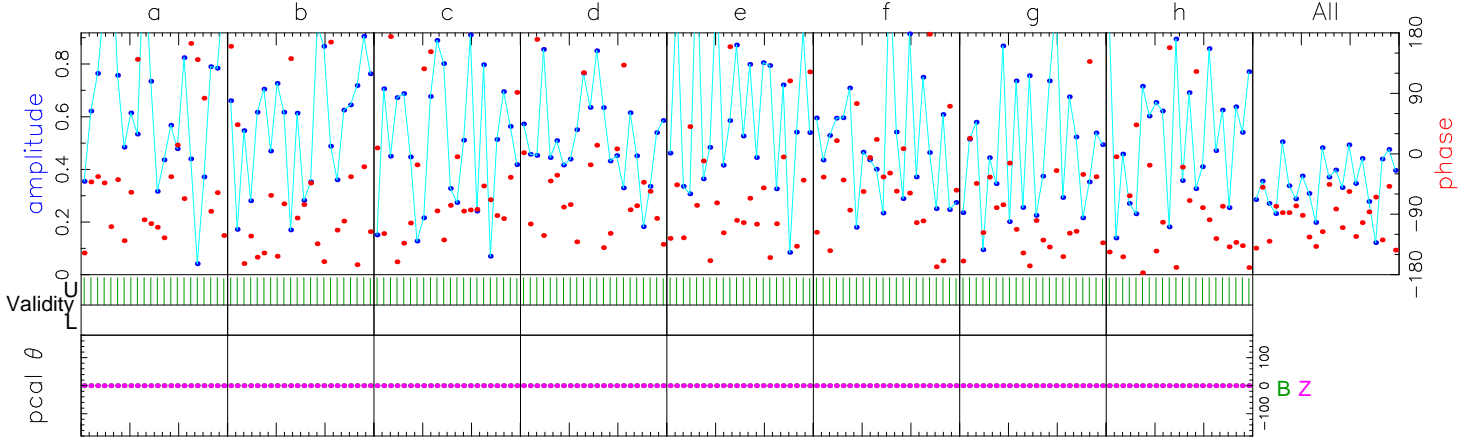


Fringe quality 9

SNR 11.2
Int time 179.635
Amp 0.306
Phase -94.8
PFD 7.4e-21
Delays (us)
SBD -0.002419
MBD -0.001586
Fringe rate (Hz)
-0.003241
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



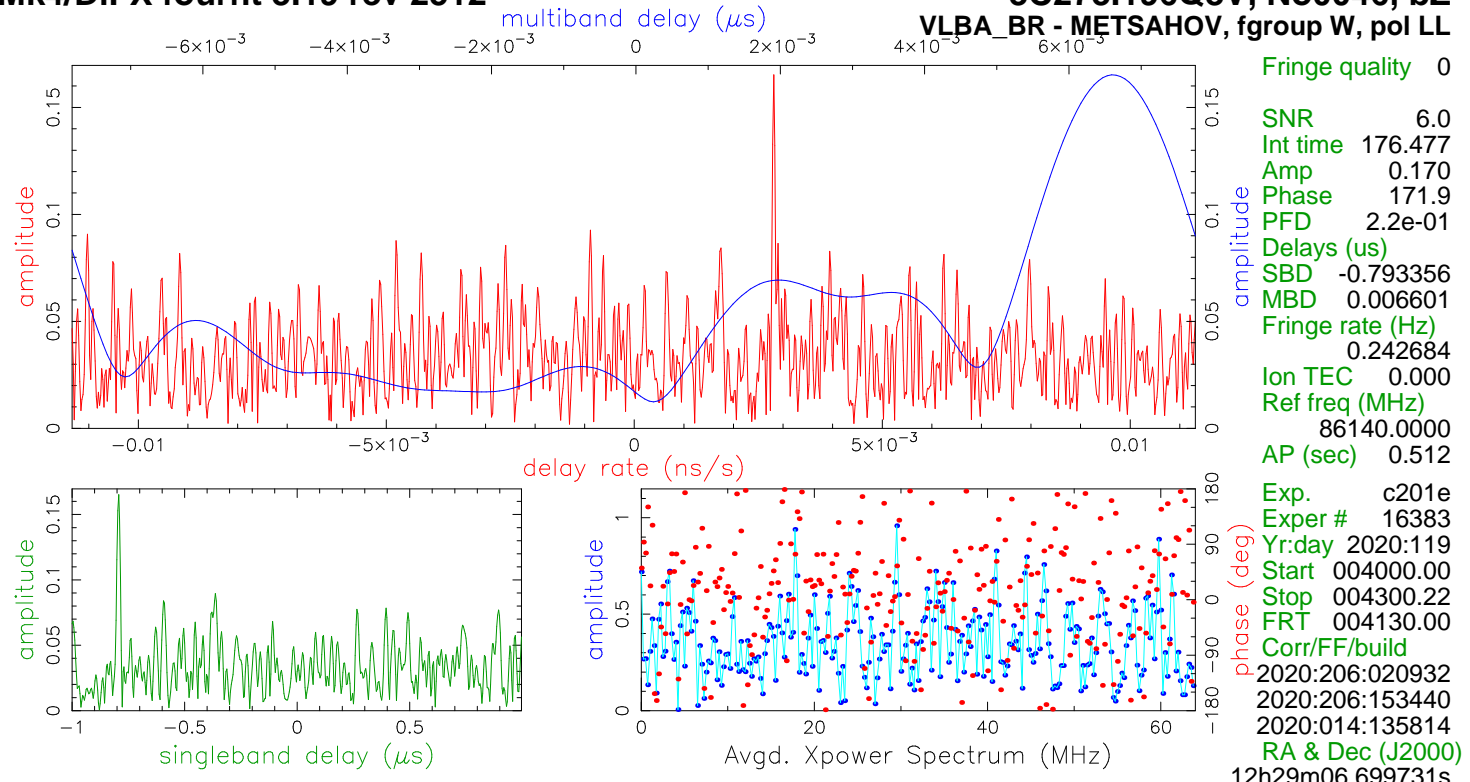
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-81.5	-123.8	-102.3	-81.2	-85.2	-61.2	-93.8	-124.6	Phase	-94.8
	0.4	0.3	0.3	0.2	0.4	0.3	0.3	0.3	Ampl.	0.3
	255.3	256.9	255.9	256.9	256.8	254.4	312.7	255.9	Sbd box	256.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.62994252208E+03		Apriori delay (usec)		4.62994410787E+03		Resid mbdelay (usec)		-1.58579E-03	+/- 9.7E-05
Sband delay (usec)	4.62994168912E+03		Apriori clock (usec)		1.3136809E+01		Resid sbdelay (usec)		-2.41875E-03	+/- 7.7E-04
Phase delay (usec)	4.62994410481E+03		Apriori clockrate (us/s)		-2.160000E-07		Resid phdelay (usec)		-3.05736E-06	+/- 3.3E-07
Delay rate (us/s)	-2.05203358522E-02		Apriori rate (us/s)		-2.05202982264E-02		Resid rate (us/s)		-3.76258E-08	+/- 3.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.49166617671E-05		Resid phase (deg)		-94.8	+/- 10.2

ph/seg (deg) 30.8 23.9 Search (1024X32) 0.296 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 35.2 41.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.7 14.4 Inc. seg. avg. 0.323 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.3 25.2 Inc. frq. avg. 0.313 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 234.2 el 28.0 pa 31.1 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) 104.624 -918.830 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/BZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/BZ.W.110.196Q8V

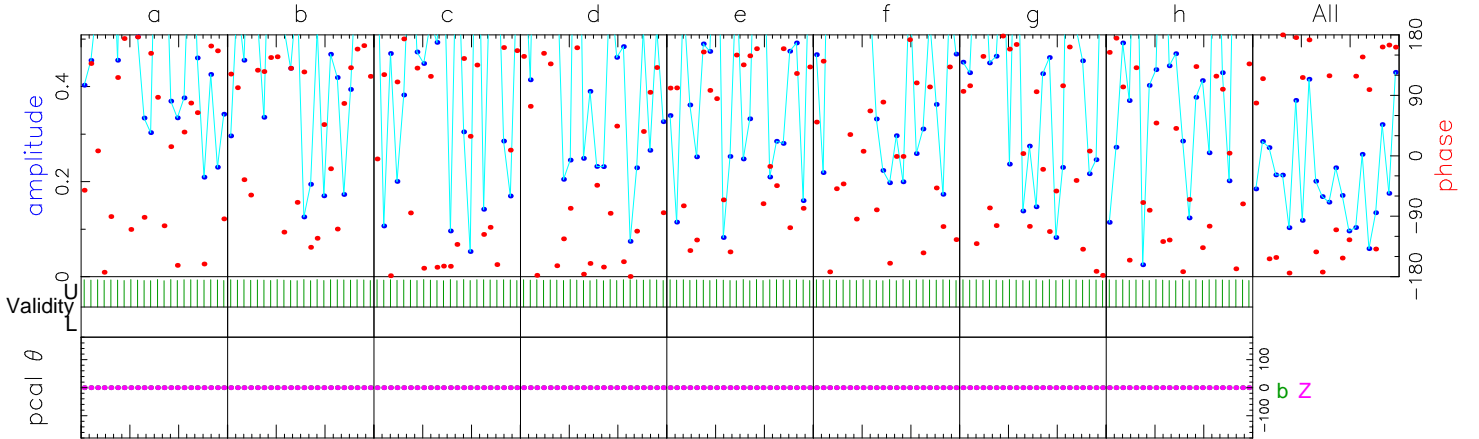
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bZ

VLBA_BR - METSAHOV, 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
176.4	159.2	-175.8	168.0	157.3	-8.2	-172.1	164.4	164.4	Phase	171.9
0.1	0.2	0.3	0.3	0.2	0.0	0.2	0.2	0.2	Ampl.	0.2
162.1	427.7	235.2	55.0	76.1	489.8	165.1	168.8	168.8	Sbd box	53.9
U/L 352/0	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	1000	PC freqs	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.41289657462E+03		Apriori delay (usec)	-2.41210630042E+03		Resid mbdelay (usec)	6.60081E-03		+/-	1.8E-04
Sband delay (usec)	-2.41289965667E+03		Apriori clock (usec)	-1.2984309E+08		Resid sbdelay (usec)	-7.93356E-01		+/-	1.4E-03
Phase delay (usec)	-2.41210629488E+03		Apriori clockrate (us/s)	-5.8000005E-08		Resid phdelay (usec)	5.54389E-06		+/-	6.2E-07
Delay rate (us/s)	1.71438872941E+00		Apriori rate (us/s)	1.71438591209E+00		Resid rate (us/s)	2.81733E-06		+/-	5.9E-09
Total phase (deg)		-86.7	Apriori accel (us/s/s)	1.23380604782E-05		Resid phase (deg)	171.9		+/-	19.1

ph/seg (deg) 45.7 44.7 Search (1024X32) 0.162 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

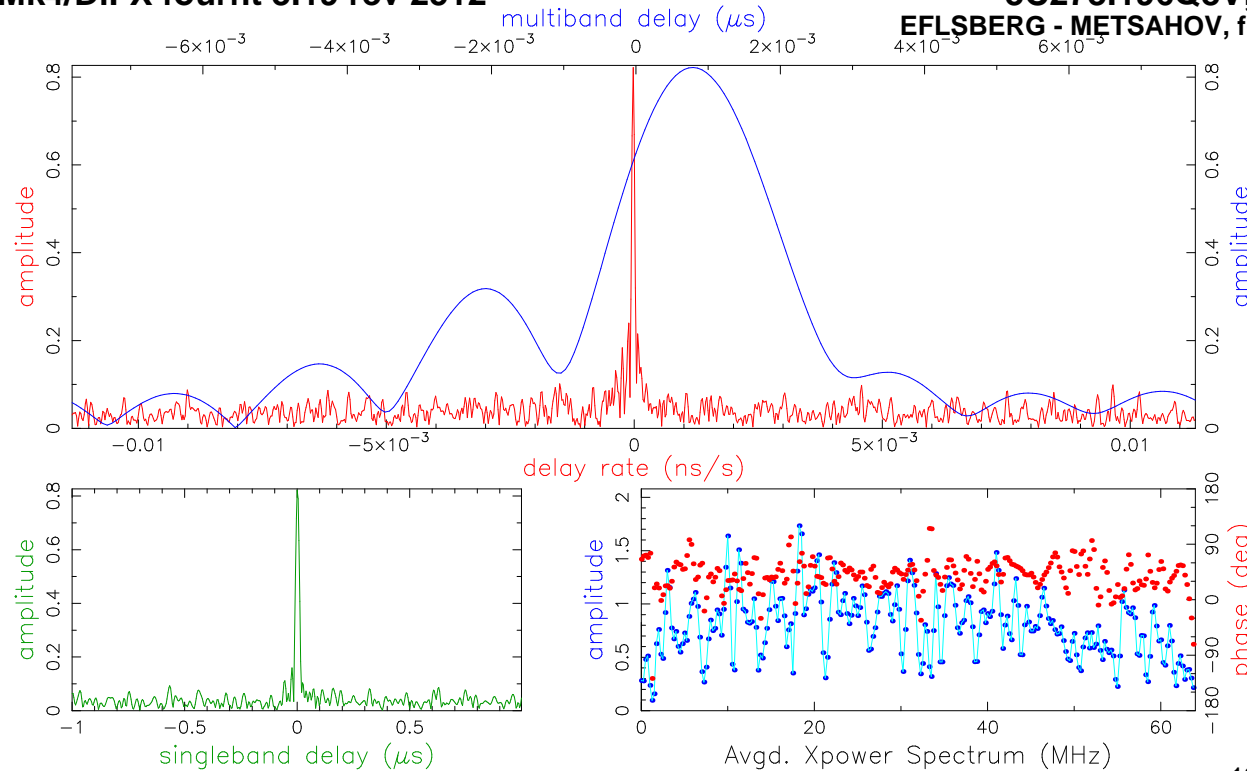
amp/seg (%) 66.8 78.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 74.4 27.0 Inc. seg. avg. 0.167 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 44.3 47.1 Inc. frq. avg. 0.161 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 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -9818.014 -1056.571 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bZ.W.55.196Q8V

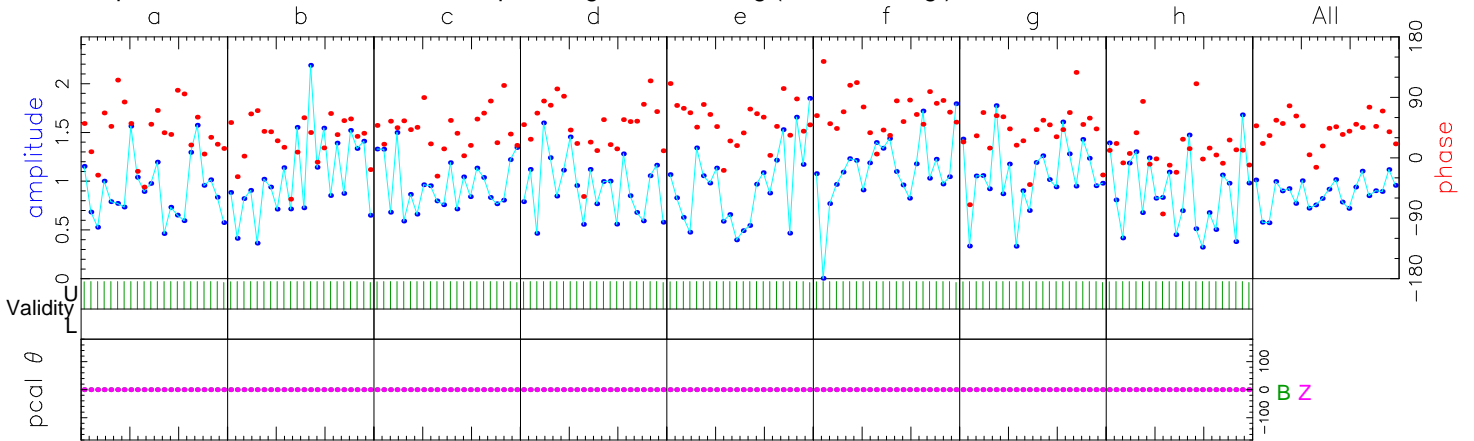


Fringe quality 8

SNR 30.3
Int time 179.635
Amp 0.827
Phase 43.2
PFD 0.0e+00
Delays (us)
SBD 0.001041
MBD 0.000809
Fringe rate (Hz)
-0.002718
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
2020:206:153440
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
	41.0	30.1	40.8	53.9	59.2	63.1	43.0	8.6	Phase	43.2
	0.7	0.9	0.9	0.8	0.8	1.0	0.9	0.8	Ampl.	0.9
	257.3	257.3	257.2	257.1	257.5	257.1	257.1	256.7	Sbd box	257.3
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.62994491735E+03	Apriori delay (usec)	4.62994410787E+03	Resid mbdelay (usec)	8.09482E-04	+/-	3.6E-05
Sband delay (usec)	4.62994514837E+03	Apriori clock (usec)	1.3136809E+01	Resid sbdelay (usec)	1.04050E-03	+/-	2.8E-04
Phase delay (usec)	4.62994410926E+03	Apriori clockrate (us/s)	-2.1600000E-07	Resid phdelay (usec)	1.39448E-06	+/-	1.2E-07
Delay rate (us/s)	-2.05203297785E-02	Apriori rate (us/s)	-2.05202982264E-02	Resid rate (us/s)	-3.15521E-08	+/-	1.2E-09
Total phase (deg)	205.8	Apriori accel (us/s/s)	-2.49166617671E-05	Resid phase (deg)	43.2	+/-	3.8

	RMS	Theor.	Amplitude	0.827 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	21.6	8.9	Search (1024X32)	0.782	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	18.5	15.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	18.9	5.3	Inc. seg. avg.	0.866	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	10.8	9.3	Inc. frq. avg.	0.852	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00

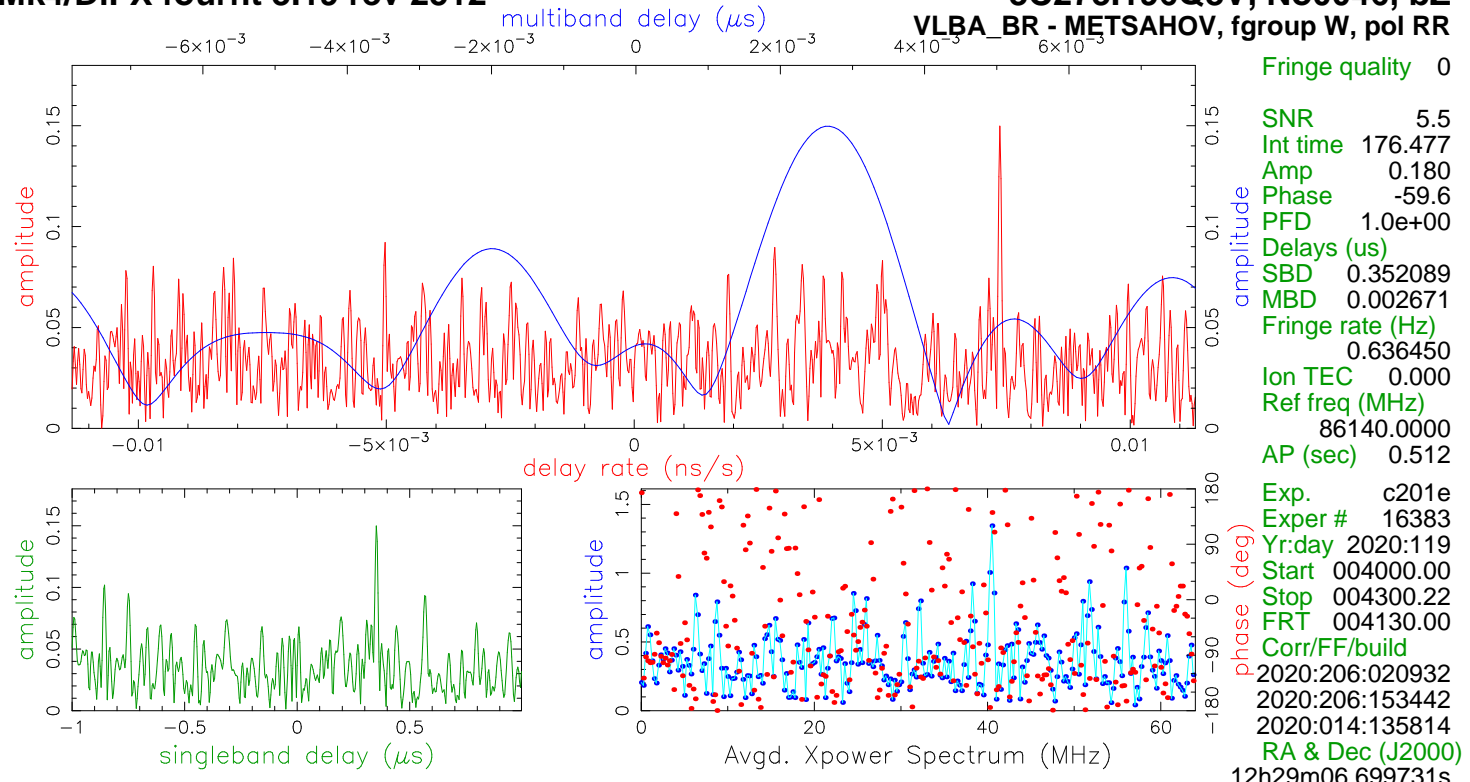
B: az 234.2 el 28.0 pa 31.1 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) 104.624 -918.830 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/BZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/BZ.W.57.196Q8V

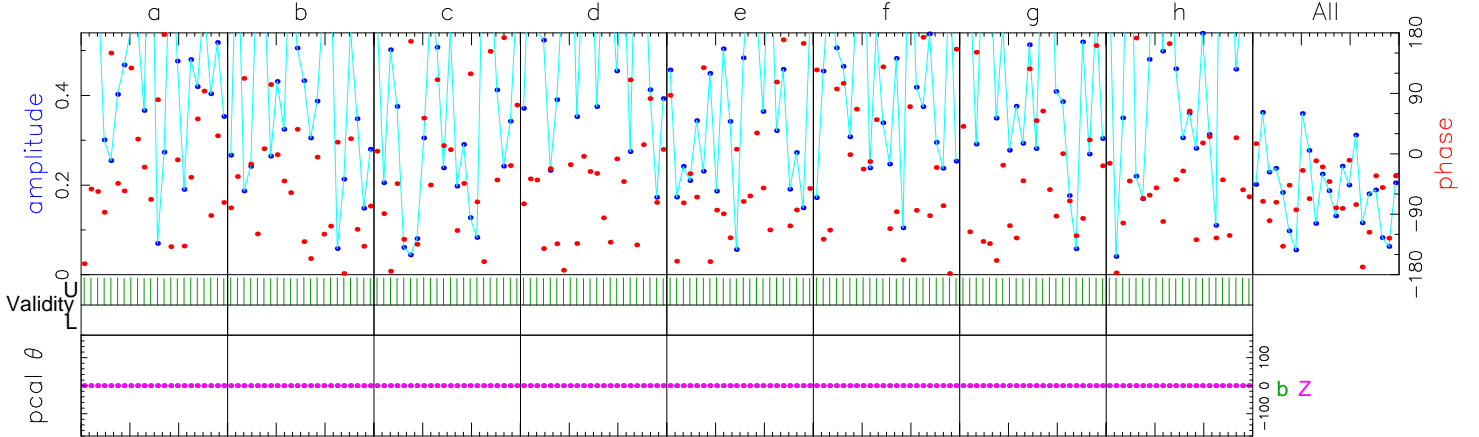
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bZ

VLBA_BR - METSAHOV, fgroup W, pol RR



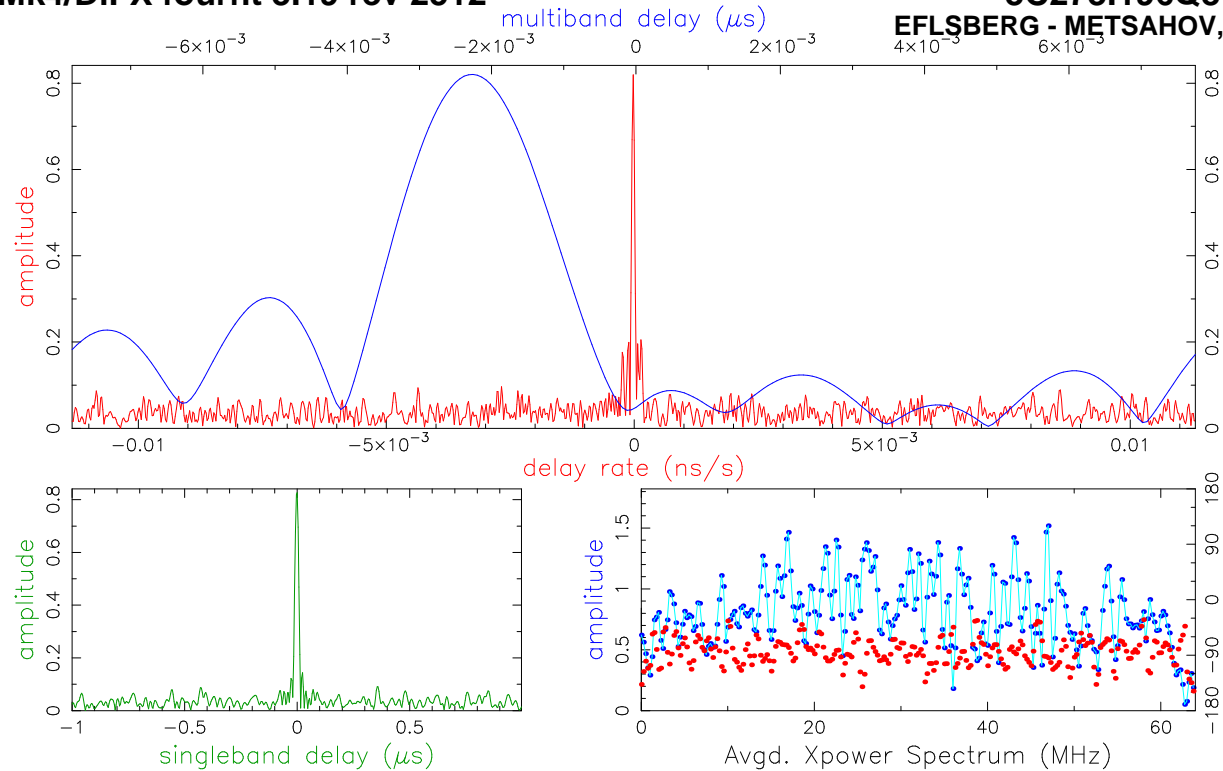
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
Group delay (usec)(sbd)	-2.41175987962E+03								2.67080E-03	+/- 2.0E-04
Sband delay (usec)	-2.41175421117E+03								3.52089E-01	+/- 1.6E-03
Phase delay (usec)	-2.41210630234E+03								-1.92041E-06	+/- 6.8E-07
Delay rate (us/s)	1.71439330064E+00								7.38855E-06	+/- 6.5E-09
Total phase (deg)			-318.2						-59.6	+/- 21.0
Apriori delay (usec)					-2.41210630042E+03				Resid mbdelay (usec)	
Apriori clock (usec)					0.147				Resid sbdelay (usec)	
Apriori clockrate (us/s)					0.000E+00				Resid phdelay (usec)	
Apriori rate (us/s)					-5.8000005E-08				Resid rate (us/s)	
Apriori accel (us/s/s)					1.71438591209E+00				Resid phase (deg)	
					1.23380604782E-05					
ph/seg (deg)	45.1	49.3							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.5	86.0							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	21.9	29.7							Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	65.7	51.9							SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
									Sample rate(MISamp/s): 128	ion window (TEC) 0.00 0.00
									Data rate(Mb/s): 2048	
									nlags: 256	t_cohere infinite

b: az 95.6 el 7.6 pa -41.7 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -9818.014 -1056.571 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bZ.W.67.196Q8V

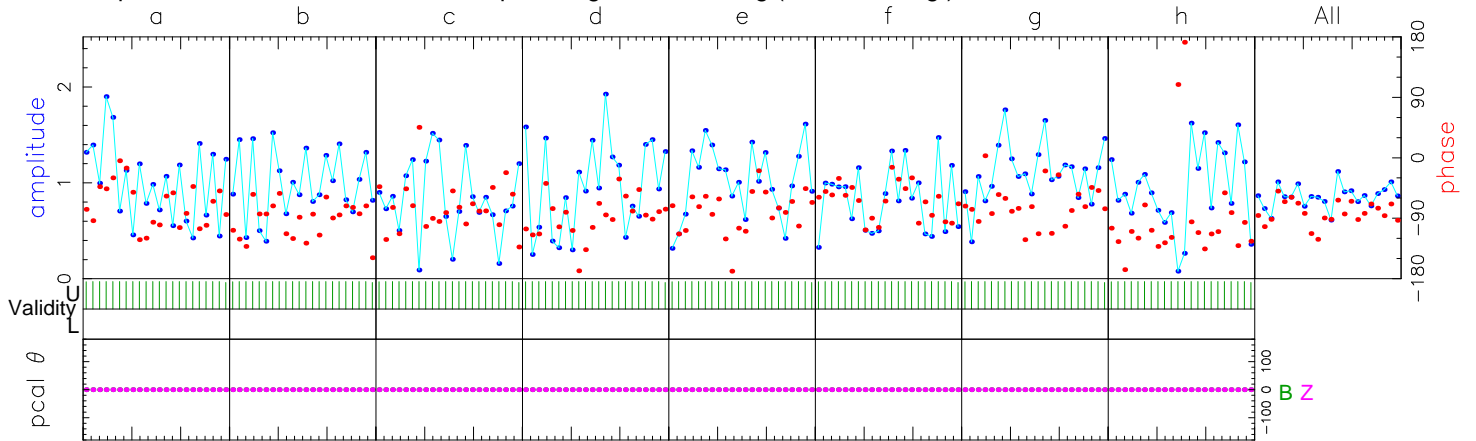


Fringe quality 8

SNR 30.8
Int time 179.635
Amp 0.841
Phase -80.4
PFD 0.0e+00
Delays (us)
SBD -0.001754
MBD -0.002220
Fringe rate (Hz)
-0.002673
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
2020:206:153442
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



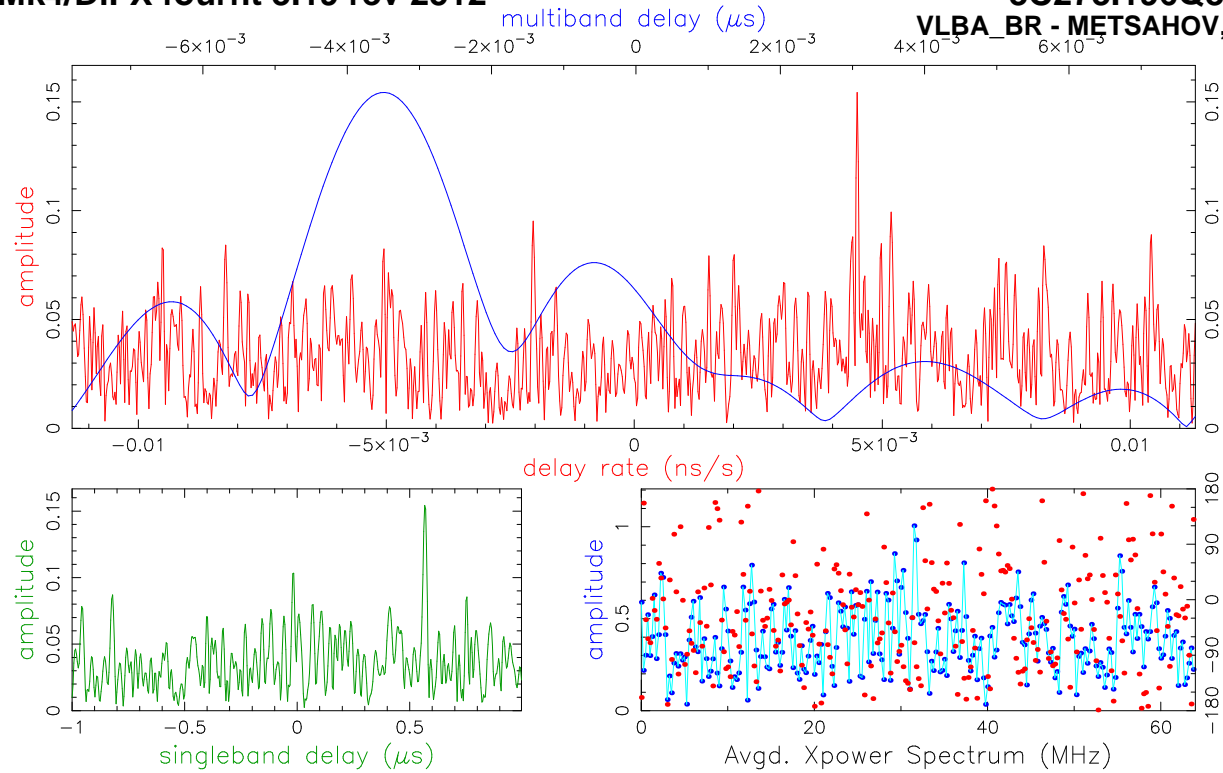
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-71.2	-89.8	-80.3	-86.2	-75.0	-59.6	-70.2	-110.9	Phase	-80.4
	0.9	0.9	0.7	0.8	0.9	0.8	1.0	0.8	Ampl.	0.8
	256.6	256.6	257.0	255.8	256.8	257.1	256.1	255.9	Sbd box	256.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.62994188810E+03		Apriori delay (usec)		4.62994410787E+03		Resid mbdelay (usec)		-2.21977E-03	+/- 3.5E-05
Sband delay (usec)	4.62994235412E+03		Apriori clock (usec)		1.3136809E+01		Resid sbdelay (usec)		-1.75375E-03	+/- 2.8E-04
Phase delay (usec)	4.62994410527E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-2.59271E-06	+/- 1.2E-07
Delay rate (us/s)	-2.05203292556E-02		Apriori rate (us/s)		-2.05202982264E-02		Resid rate (us/s)		-3.10292E-08	+/- 1.2E-09
Total phase (deg)			82.2		Apriori accel (us/s/s)		-2.49166617671E-05		Resid phase (deg)	-80.4 +/- 3.7

ph/seg (deg) 17.3 8.7 Search (1024X32) 0.786 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 14.0 15.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.8 5.3 Inc. seg. avg. 0.849 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.1 9.2 Inc. frq. avg. 0.842 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 234.2 el 28.0 pa 31.1 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) 104.624 -918.830 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/BZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/BZ.W.70.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bZ

VLBA_BR - METSAHOV, fgroup W, pol LR

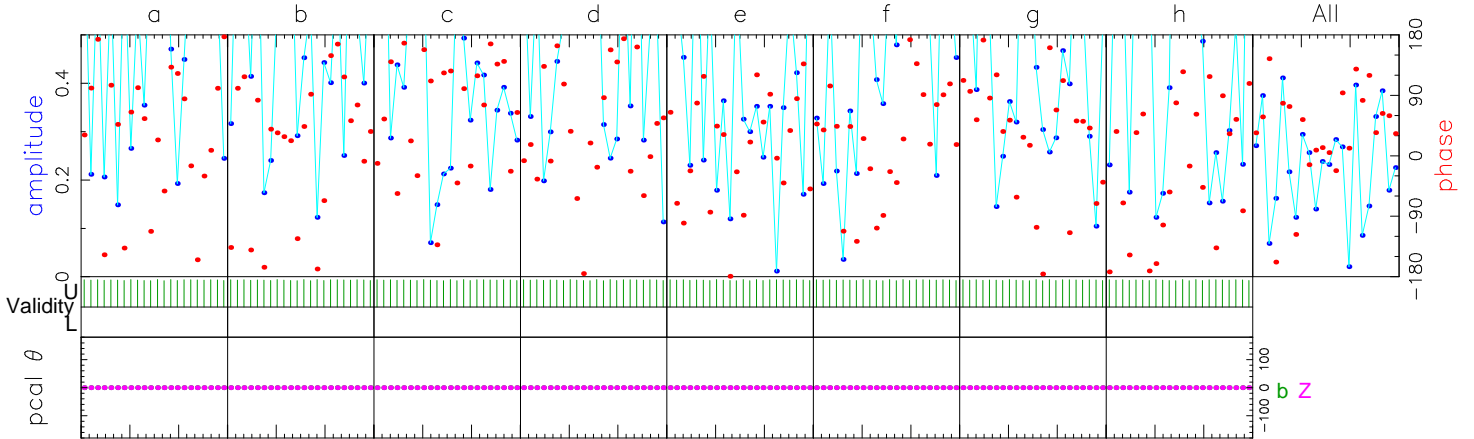


Fringe quality 0

SNR 5.7
 Int time 176.477
 Amp 0.167
 Phase 53.7
 PFD 8.2e-01
 Delays (us)
 SBD 0.567936
 MBD -0.003472
 Fringe rate (Hz)
 0.387322
 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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.41153164778E+03									
Sband delay (usec)	-2.41153836467E+03									
Phase delay (usec)	-2.41210629869E+03									
Delay rate (us/s)	1.71439040851E+00									
Total phase (deg)			-204.9							
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)									53.7	+/- 20.2
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									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

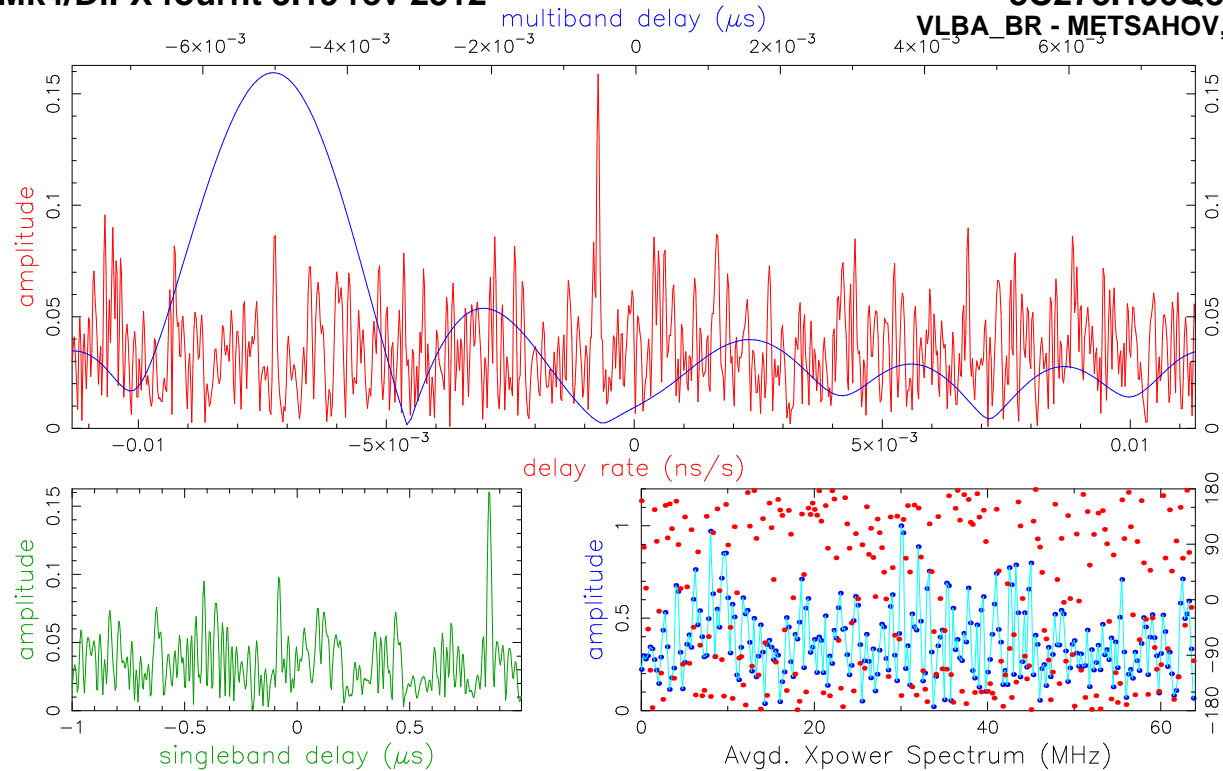
b: az 95.6 el 7.6 pa -41.7 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -9818.014 -1056.571 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bZ.W.77.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

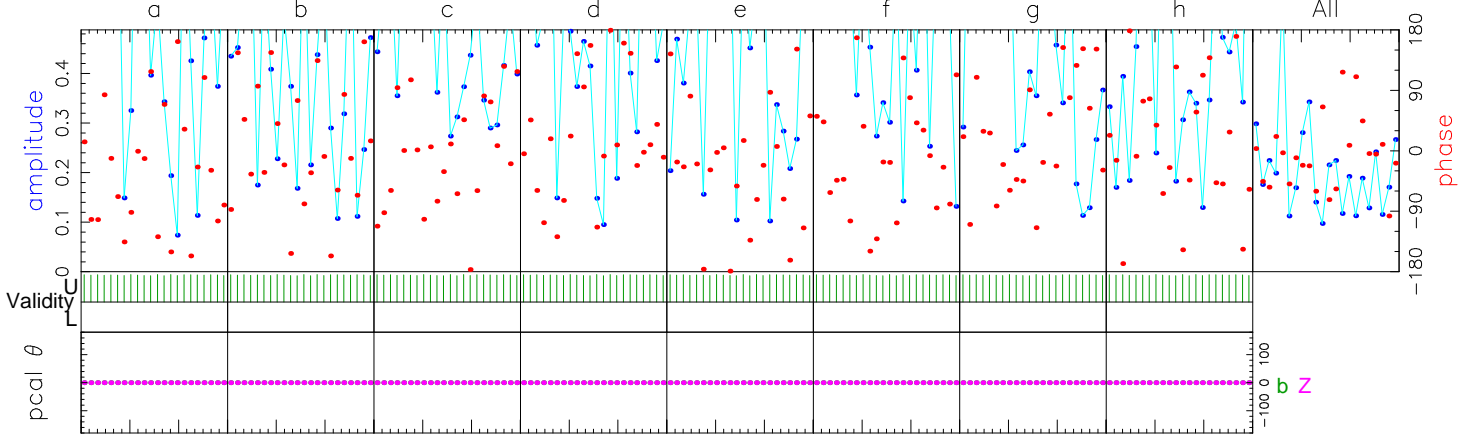
3C273.196Q8V, No0046, bZ

VLBA_BR - METSAHOV, fgroup W, pol RL



Fringe quality 0
 SNR 5.9
 Int time 176.477
 Amp 0.163
 Phase -15.2
 PFD 3.7e-01
 Delays (us)
 SBD 0.853251
 MBD -0.005126
 Fringe rate (Hz)
 -0.063419
 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

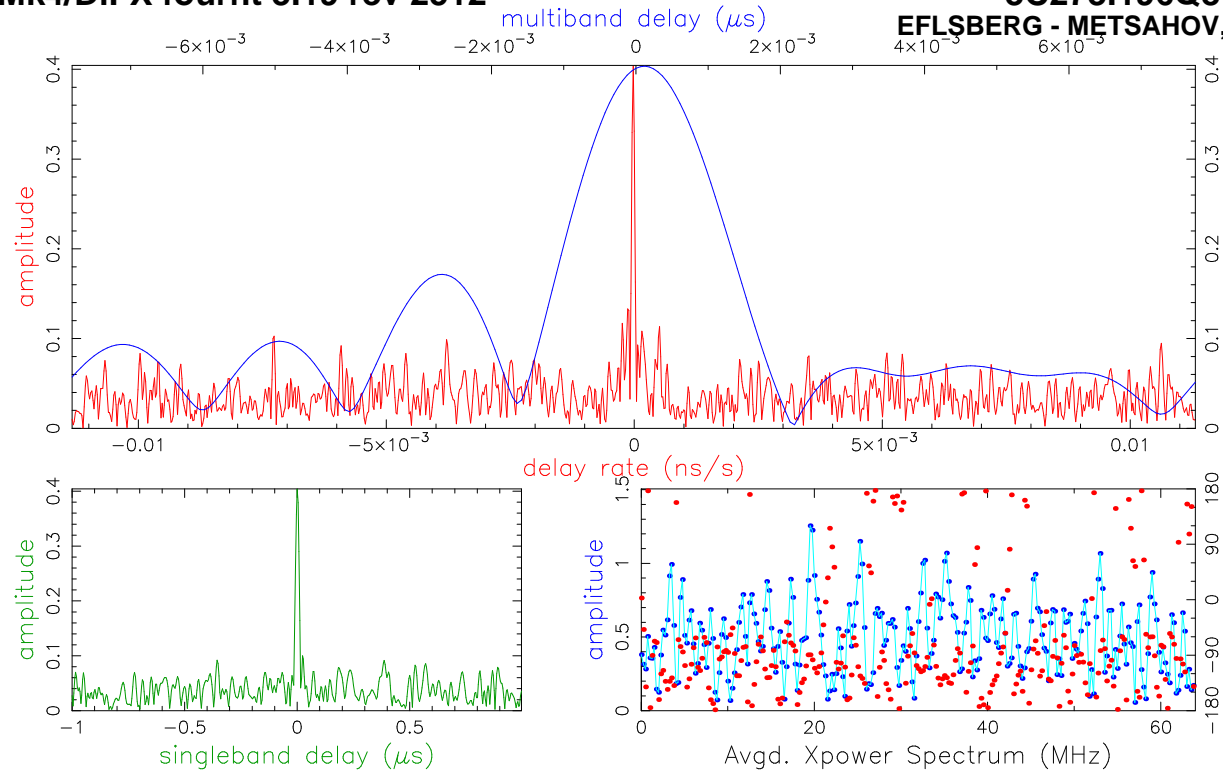


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-33.6	-14.5	-17.9	14.6	-23.1	-21.3	0.6	-13.7	Phase	-15.2
	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	Ampl.	0.1
	399.2	27.9	360.2	63.2	27.1	475.7	101.9	159.4	Sbd box	475.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.41125205106E+03	Apriori delay (usec)	-2.41210630042E+03	Resid mbdelay (usec)	-5.12564E-03	+/-	1.8E-04
Sband delay (usec)	-2.41125304967E+03	Apriori clock (usec)	-1.2984309E+08	Resid sbdelay (usec)	8.53251E-01	+/-	1.5E-03
Phase delay (usec)	-2.41210630091E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-4.91434E-07	+/-	6.3E-07
Delay rate (us/s)	1.71438517586E+00	Apriori rate (us/s)	1.71438591209E+00	Resid rate (us/s)	-7.36228E-07	+/-	6.0E-09
Total phase (deg)	-273.9	Apriori accel (us/s/s)	1.23380604782E-05	Resid phase (deg)	-15.2	+/-	19.4

ph/seg (deg)	54.1	Theor.	45.5	Amplitude	0.163 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	69.4		79.5	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	16.3		27.5	Inc. seg. avg.	0.159	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	19.1		47.9	Inc. frq. avg.	0.147	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 95.6 el 7.6 pa -41.7 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -9818.014 -1056.571 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bZ.W.91.196Q8V

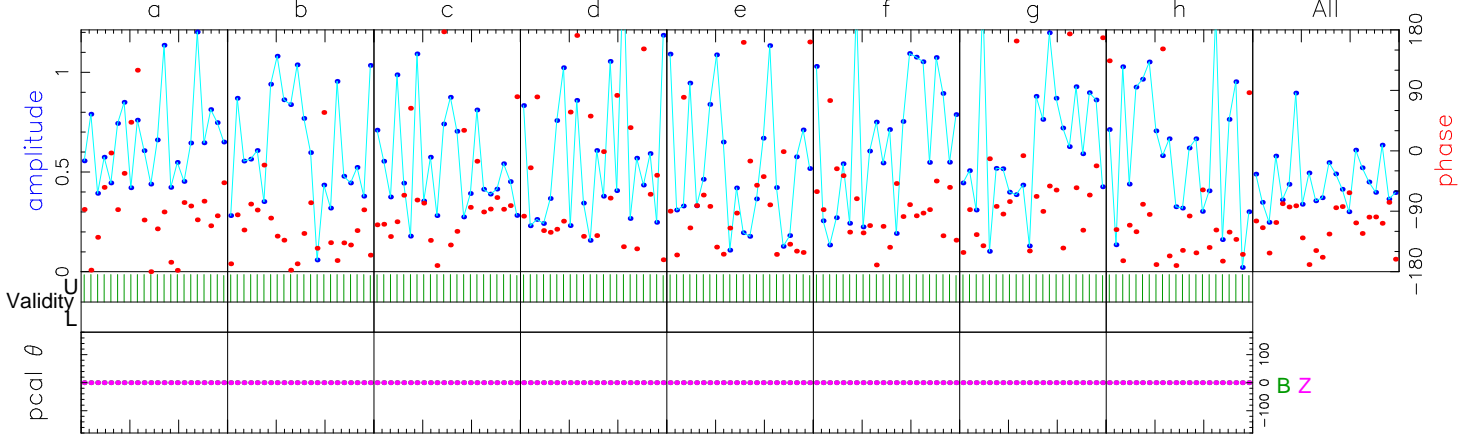


Fringe quality 9

SNR 14.8
Int time 179.635
Amp 0.404
Phase -109.1
PFD 3.4e-41
Delays (us)
SBD 0.000627
MBD 0.000126
Fringe rate (Hz)
-0.002464
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

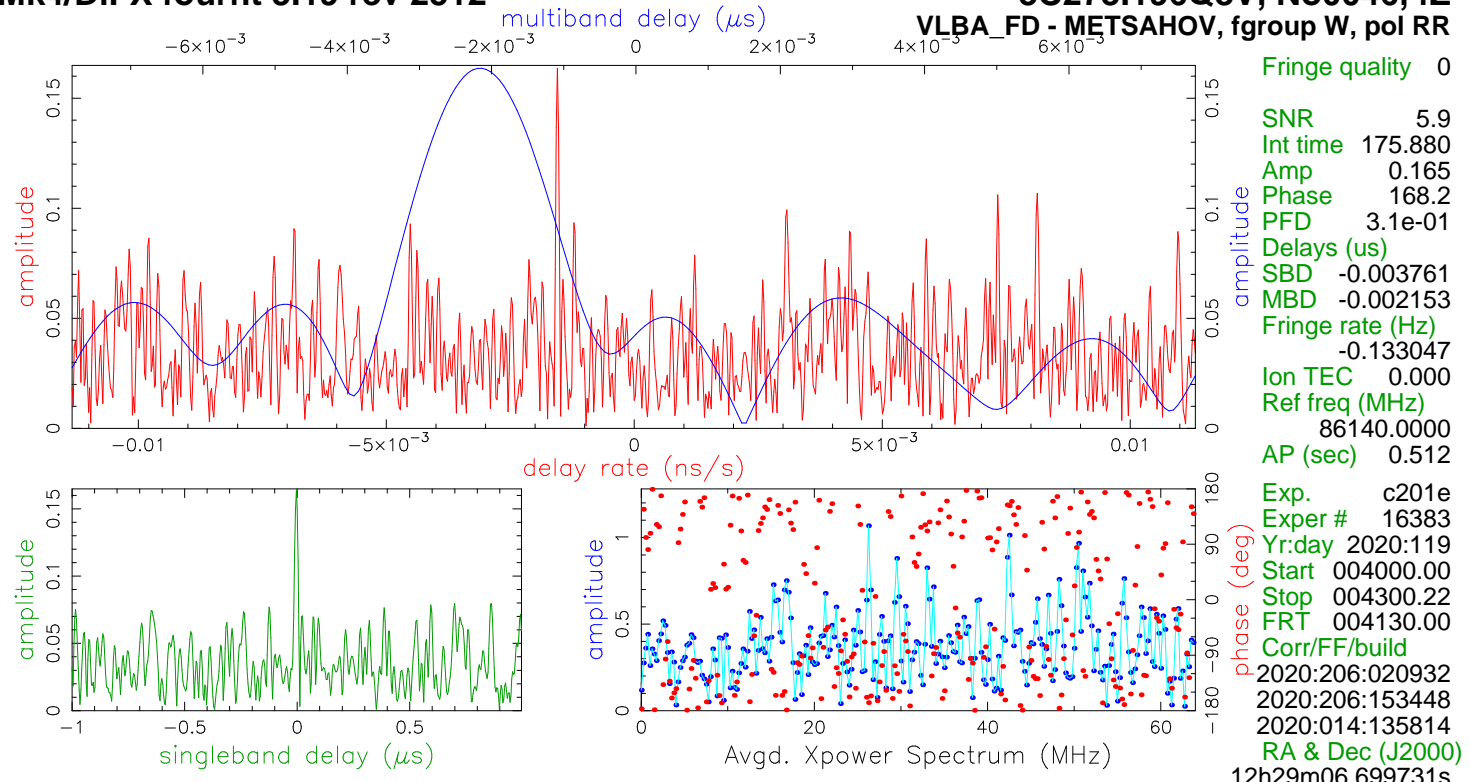
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004000.00
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153446
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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

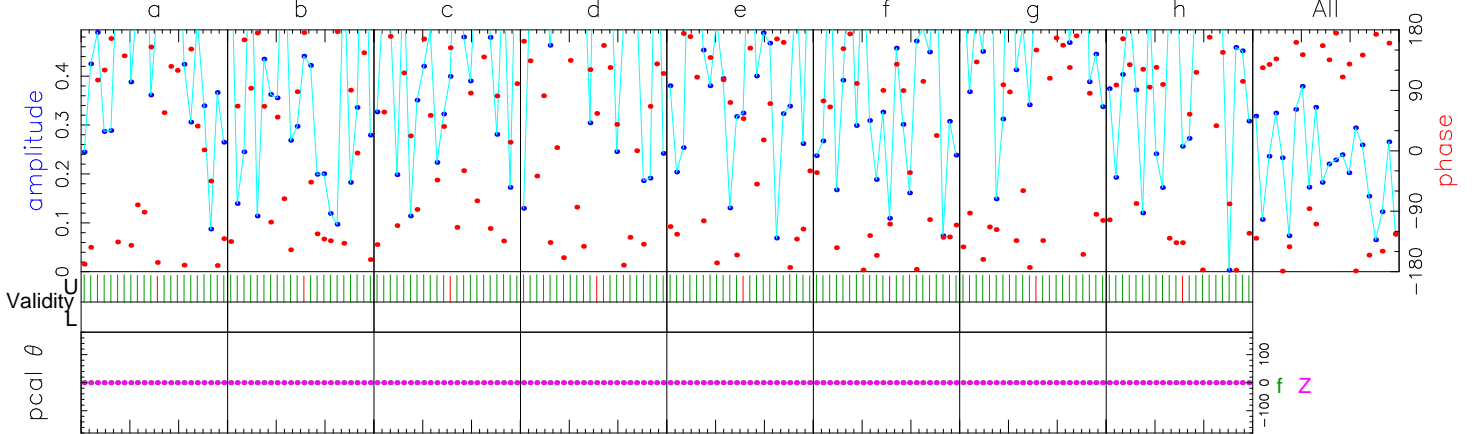


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-98.2	-127.0	-99.5	-122.8	-111.1	-91.2	-90.8	-134.8	Phase	-109.1
	0.4	0.5	0.4	0.3	0.4	0.5	0.4	0.5	Ampl.	0.4
	257.5	256.2	257.9	256.7	257.2	257.2	257.0	256.5	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.62994423397E+03		Apriori delay (usec)		4.62994410787E+03		Resid mbdelay (usec)		1.26107E-04	+/- 7.3E-05
Sband delay (usec)	4.62994473462E+03		Apriori clock (usec)		1.3136809E+01		Resid sbdelay (usec)		6.26750E-04	+/- 5.8E-04
Phase delay (usec)	4.62994410435E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-3.51702E-06	+/- 2.5E-07
Delay rate (us/s)	-2.05203268309E-02		Apriori rate (us/s)		-2.05202982264E-02		Resid rate (us/s)		-2.86045E-08	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.49166617671E-05		Resid phase (deg)		-109.1	+/- 7.7

ph/seg (deg) 30.2 18.1 Amplitude 0.404 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.5 31.6 Search (1024X32) 0.394 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.4 10.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.9 19.1 Inc. seg. avg. 0.435 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.413 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



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

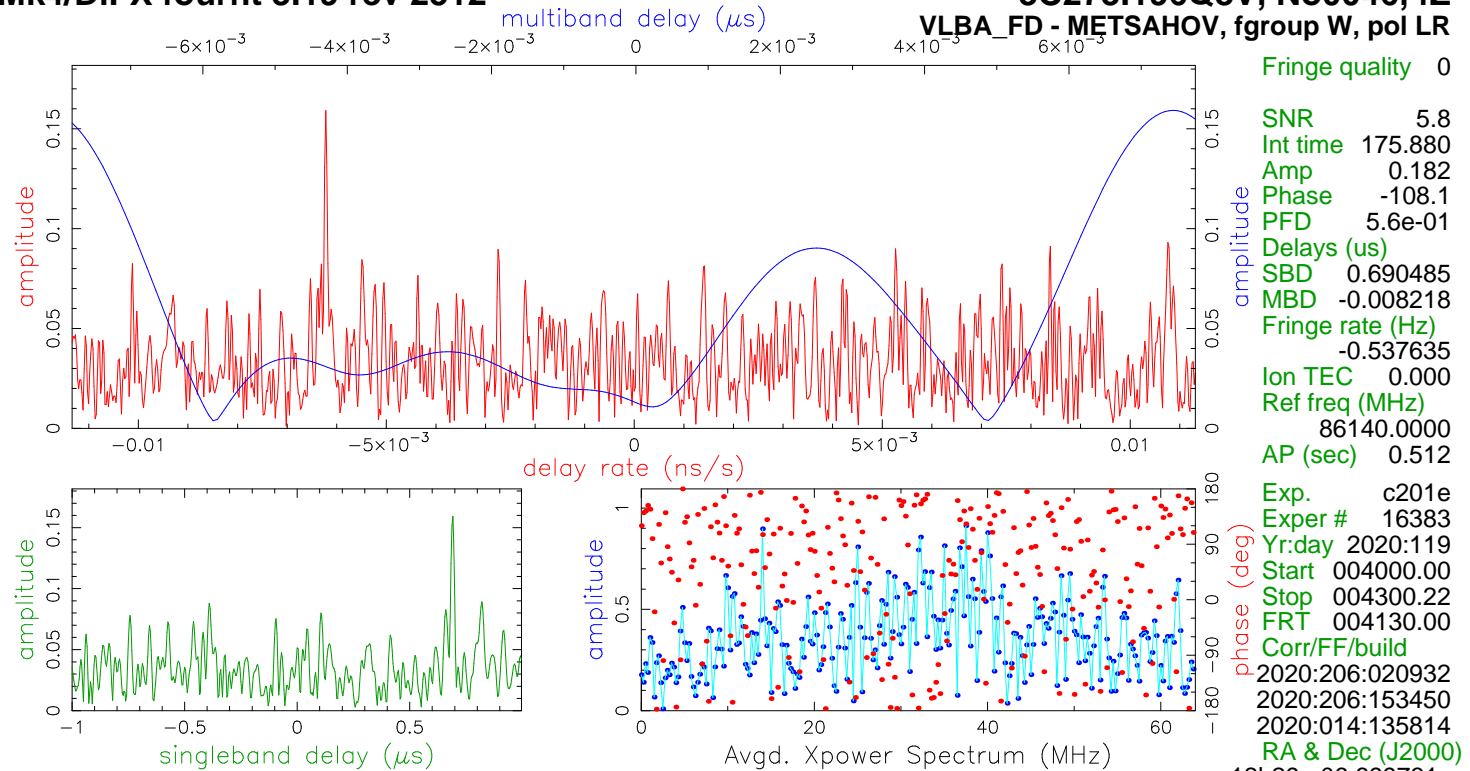


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	171.3	-173.5	159.5	151.1	175.6	146.7	-175.7	160.1	Phase	168.2
	0.2	0.1	0.1	0.2	0.1	0.1	0.3	0.2	Ampl.	0.2
	250.9	454.5	224.6	303.8	183.8	263.2	255.0	440.0	Sbd box	256.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.89197909696E+03		Apriori delay (usec)		2.89198125022E+03		Resid mbdelay (usec)		-2.15326E-03	+/- 1.8E-04
Sband delay (usec)	2.89197748972E+03		Apriori clock (usec)		4.0383458E+00		Resid sbdelay (usec)		-3.76050E-03	+/- 1.5E-03
Phase delay (usec)	2.89198125564E+03		Apriori clockrate (us/s)		9.3000003E-08		Resid phdelay (usec)		5.42387E-06	+/- 6.2E-07
Delay rate (us/s)	1.89914976866E+00		Apriori rate (us/s)		1.89915131321E+00		Resid rate (us/s)		-1.54455E-06	+/- 6.0E-09
Total phase (deg)	130.0		Apriori accel (us/s/s)		-1.67258348291E-05		Resid phase (deg)		168.2	+/- 19.3

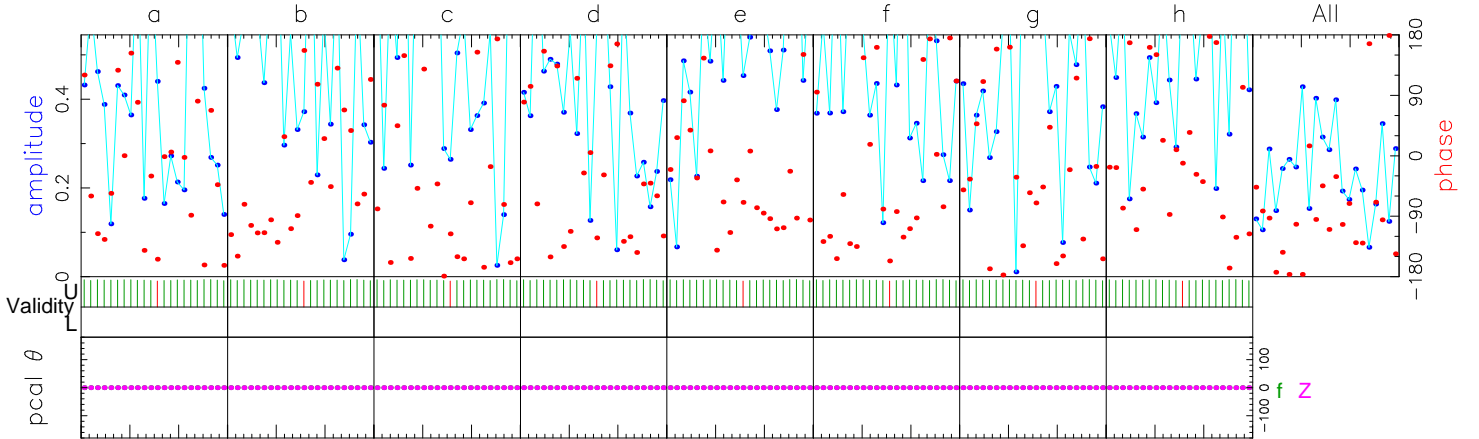
	RMS	Theor.	Amplitude	0.165 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	44.9	45.3	Search (1024X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/seg (%)	64.9	79.0	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	16.1	27.3	Inc. seg. avg.	0.169	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00
amp/frq (%)	40.9	47.7	Inc. frq. avg.	0.152				

f: az 101.6 el 22.3 pa -57.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10892.301 -3214.817 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fZ.W.105.196Q8V



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



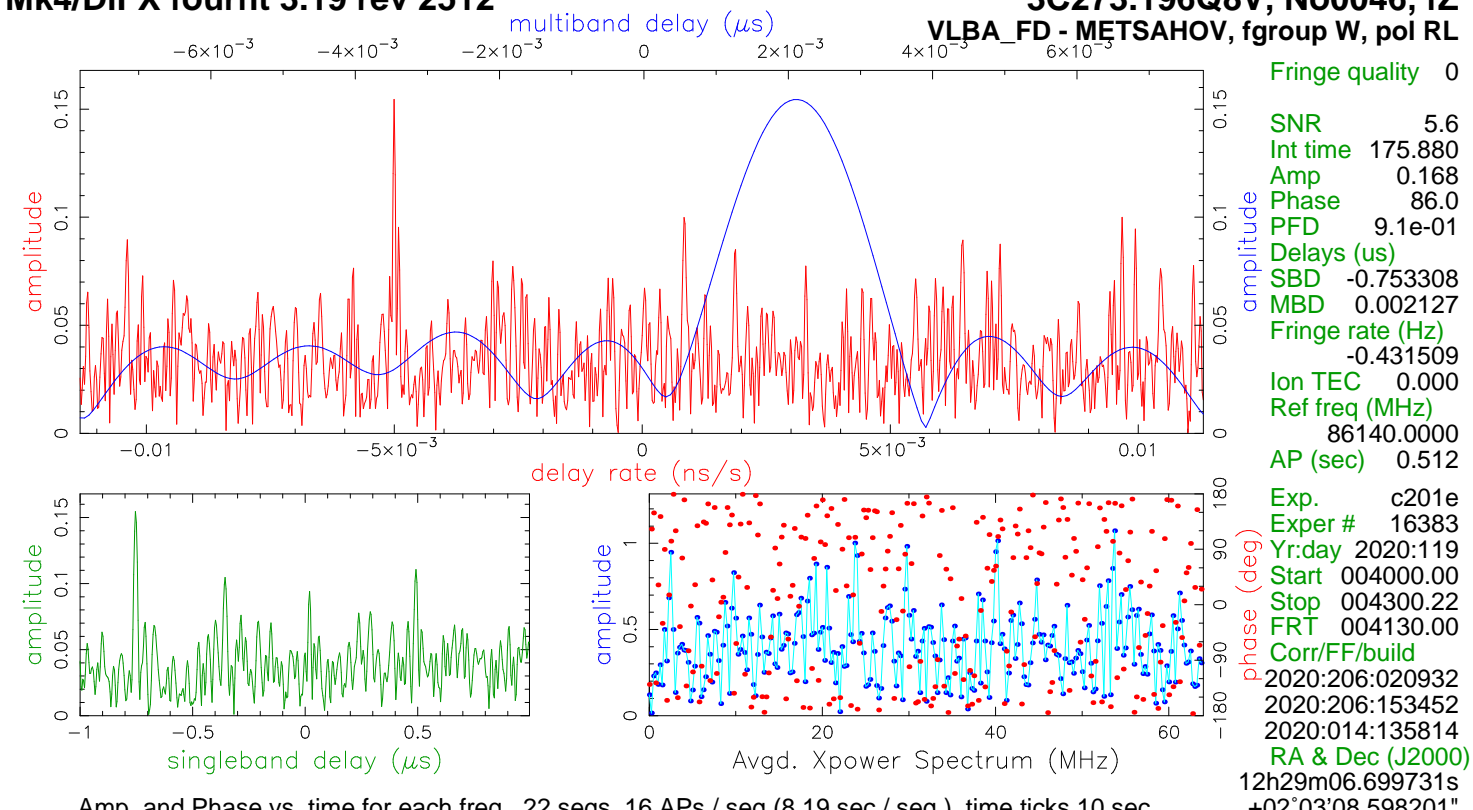
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-54.9	-96.6	-135.4	-113.6	-75.5	-140.8	-123.6	-69.1	Phase	-108.1
	0.0	0.3	0.3	0.2	0.3	0.3	0.1	0.1	Ampl.	0.2
	457.8	248.2	208.9	361.0	432.0	433.2	74.6	439.7	Sbd box	433.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.89267615762E+03	Apriori delay (usec)	2.89198125022E+03	Resid mbdelay (usec)	-8.21759E-03	+/-	1.9E-04
Sband delay (usec)	2.89267173522E+03	Apriori clock (usec)	4.0383458E+00	Resid sbdelay (usec)	6.90485E-01	+/-	1.5E-03
Phase delay (usec)	2.89198124673E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-3.48435E-06	+/-	6.4E-07
Delay rate (us/s)	1.89914507180E+00	Apriori rate (us/s)	1.89915131321E+00	Resid rate (us/s)	-6.24141E-06	+/-	6.1E-09
Total phase (deg)	213.7	Apriori accel (us/s/s)	-1.67258348291E-05	Resid phase (deg)	-108.1	+/-	19.8

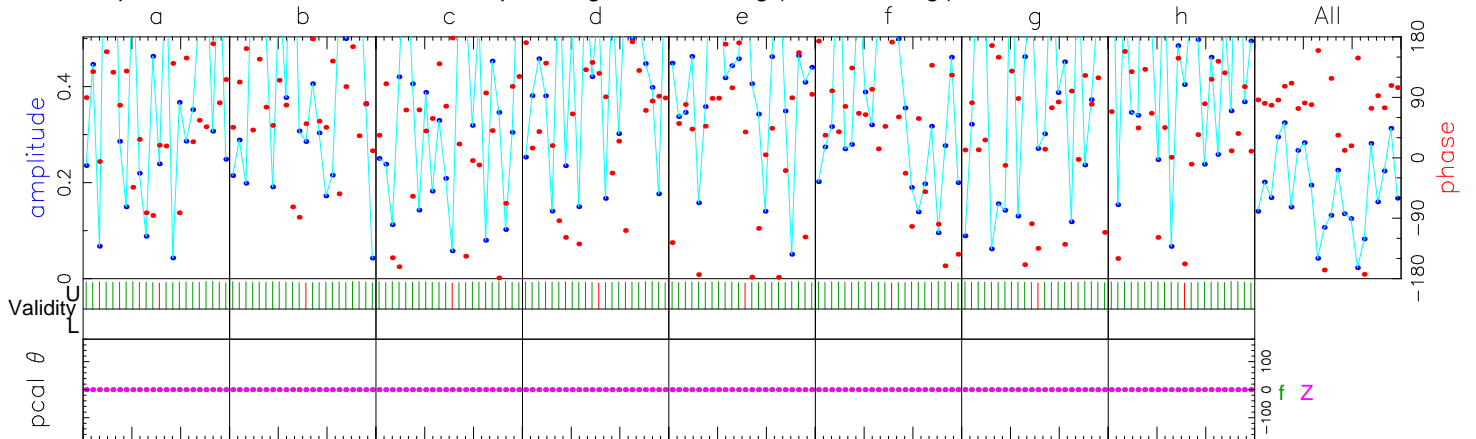
ph/seg (deg)	53.4	Theor.	46.3	Amplitude	0.182 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	78.2		80.9	Search (1024X32)	0.155	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	35.7		27.9	Inc. seg. avg.	0.203	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	55.2		48.8	Inc. frq. avg.	0.182	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 101.6 el 22.3 pa -57.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10892.301 -3214.817 simultaneous interpolator

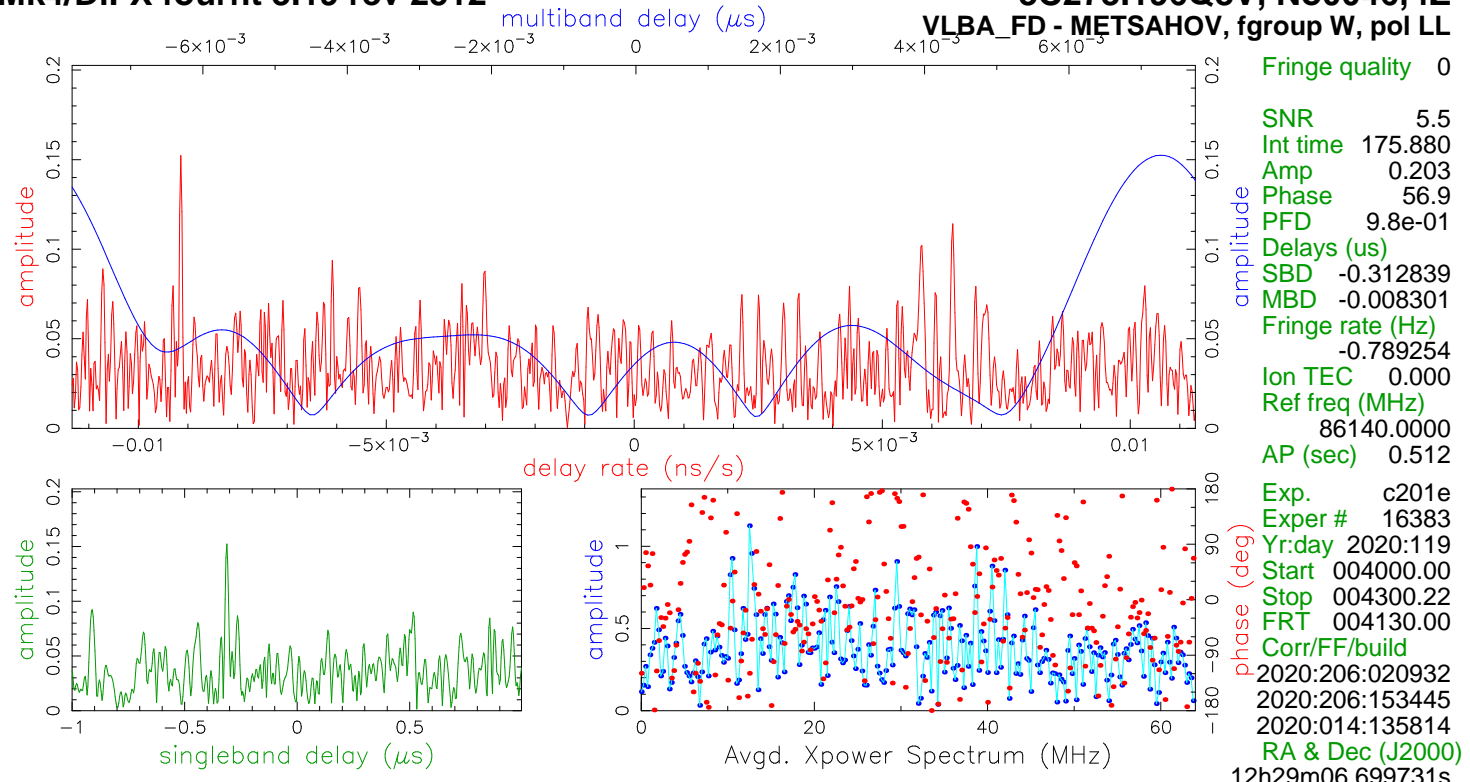
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fZ.W.119.196Q8V



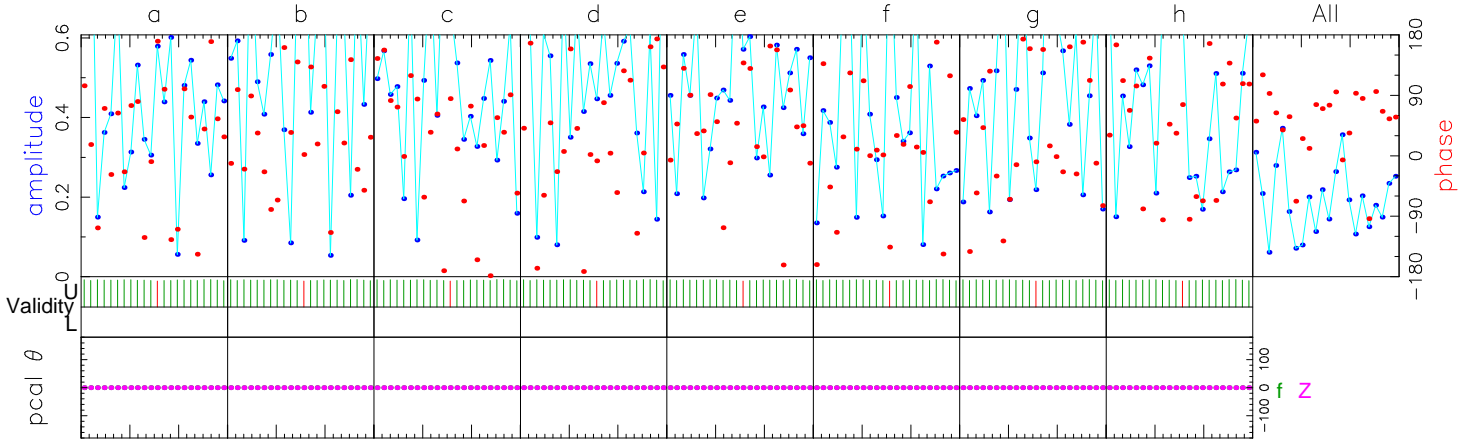
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	85.2	82.9	71.6	104.7	106.1	74.1	74.7	84.1	Phase	86.0		
	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	Ampl.	0.2		
	107.5	177.2	197.2	355.8	123.8	445.9	418.2	383.5	Sbd box	64.2		
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			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
f:Z	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			
Z	1000	1000	1000	1000	1000	1000	1000	1000				
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Chan ids			
									Tracks			
Group delay (usec)(sbd)	2.89123337737E+03		Apriori delay (usec)		2.89198125022E+03		Resid mbdelay (usec)		2.12715E-03	+/- 1.9E-04		
Sband delay (usec)	2.89122794272E+03		Apriori clock (usec)		4.0383458E+00		Resid sbdelay (usec)		-7.53308E-01	+/- 1.5E-03		
Phase delay (usec)	2.89198125299E+03		Apriori clockrate (us/s)		9.3000003E-08		Resid phdelay (usec)		2.77277E-06	+/- 6.6E-07		
Delay rate (us/s)	1.89914630382E+00		Apriori rate (us/s)		1.89915131321E+00		Resid rate (us/s)		-5.00939E-06	+/- 6.3E-09		
Total phase (deg)	47.7		Apriori accel (us/s/s)		-1.67258348291E-05		Resid phase (deg)		86.0	+/- 20.4		
	RMS	Theor.	Amplitude	0.168 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	46.4	47.9	Search (1024X32)	0.150		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	57.3	83.6	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	14.4	28.9	Inc. seg. avg.	0.148		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	30.2	50.4	Inc. frq. avg.	0.152		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
f: az 101.6 el 22.3 pa -57.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10892.301 -3214.817 simultaneous interpolator												
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fZ.W.132.196Q8V												



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
	65.5	31.6	84.9	70.6	65.4	48.5	-20.7	68.7	Phase	56.9
	0.3	0.3	0.3	0.2	0.3	0.1	0.1	0.2	Ampl.	0.2
	483.5	177.3	474.5	87.3	433.4	297.3	76.1	142.0	Sbd box	176.9
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.89167607444E+03		Apriori delay (usec)		2.89198125022E+03		Resid mbdelay (usec)		-8.30078E-03	+/- 2.0E-04
Sband delay (usec)	2.89166841147E+03		Apriori clock (usec)		4.0383458E+00		Resid sbdelay (usec)		-3.12839E-01	+/- 1.6E-03
Phase delay (usec)	2.89198125205E+03		Apriori clockrate (us/s)		9.3000003E-08		Resid phdelay (usec)		1.83580E-06	+/- 6.7E-07
Delay rate (us/s)	1.89914215075E+00		Apriori rate (us/s)		1.89915131321E+00		Resid rate (us/s)		-9.16246E-06	+/- 6.4E-09
Total phase (deg)	18.7		Apriori accel (us/s/s)		-1.67258348291E-05		Resid phase (deg)		56.9	+/- 20.7

ph/seg (deg) 51.1 48.6 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

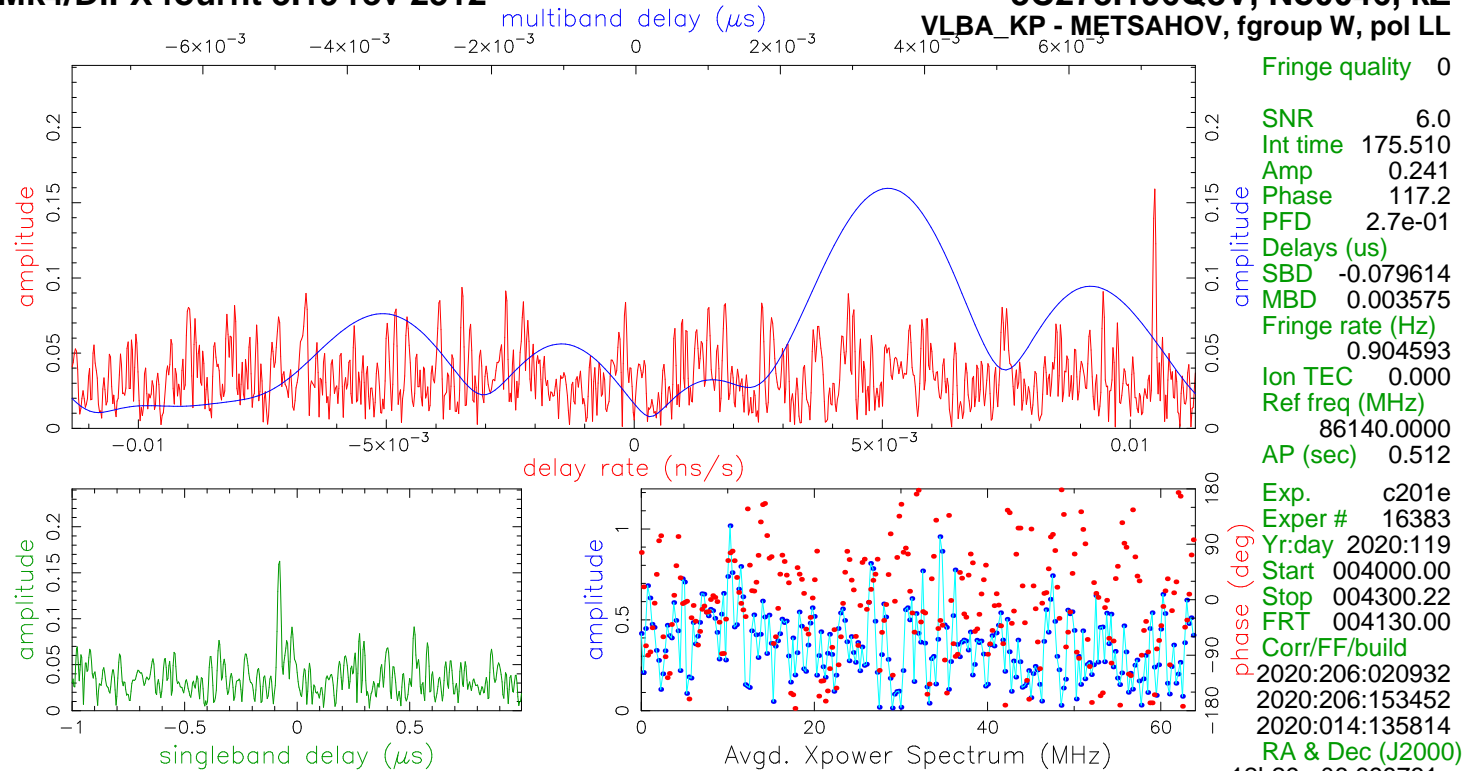
amp/seg (%) 62.7 84.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 36.5 29.3 Inc. seg. avg. 0.191 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 34.6 51.2 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

f: az 101.6 el 22.3 pa -57.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10892.301 -3214.817 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fz..196Q8V Output file: /Exps/c201e/v1/1234/No0046/fz.W.88.196Q8V



Fringe quality 0

SNR 6.0

Int time 175.510

Amp 0.241

Phase 117.2

PDF 2.7e-01

Delays (us)

SBD -0.079614

MBD 0.003575

Fringe rate (Hz) 0.904593

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

2020:206:153452

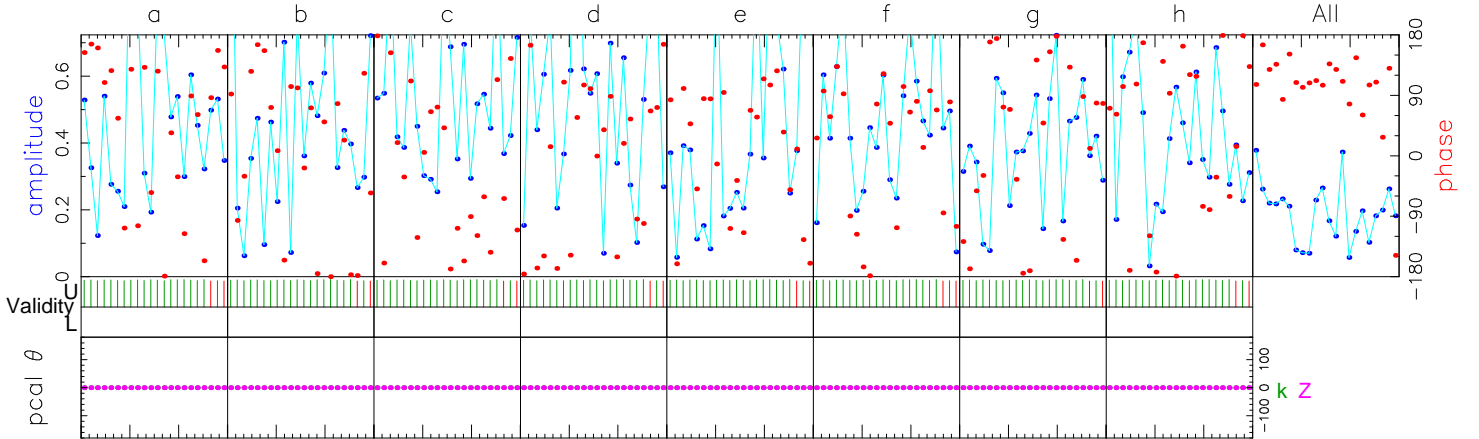
2020:014:135814

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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.46301077483E+02			5.46375627636E+02				3.57485E-03	+/- 1.8E-04
Sband delay (usec)		5.46296013136E+02			-2.2300291E-01				-7.96145E-02	+/- 1.4E-03
Phase delay (usec)		5.46375631415E+02			-1.0600001E-08				3.77898E-06	+/- 6.2E-07
Delay rate (us/s)		1.94707858234E+00			1.94706808091E+00				1.05014E-05	+/- 6.0E-09
Total phase (deg)			320.4		-4.20176684190E-06				117.2	+/- 19.2
RMS	36.2	45.0		0.241 +/- 0.040						
ph/seg (deg)	36.2	45.0		0.157						
amp/seg (%)	55.2	78.6		0.000						
ph/frq (deg)	40.7	27.2		0.215						
amp/frq (%)	28.3	47.4		0.247						

Group delay (usec)(sbd) 5.46301077483E+02 Apriori delay (usec) 5.46375627636E+02 Resid mbdelay (usec) 3.57485E-03 +/- 1.8E-04

Sband delay (usec) 5.46296013136E+02 Apriori clock (usec) -2.2300291E-01 Resid sbdelay (usec) -7.96145E-02 +/- 1.4E-03

Phase delay (usec) 5.46375631415E+02 Apriori clockrate (us/s) -1.0600001E-08 Resid phdelay (usec) 3.77898E-06 +/- 6.2E-07

Delay rate (us/s) 1.94707858234E+00 Apriori rate (us/s) 1.94706808091E+00 Resid rate (us/s) 1.05014E-05 +/- 6.0E-09

Total phase (deg) 320.4 Apriori accel (us/s/s) -4.20176684190E-06 Resid phase (deg) 117.2 +/- 19.2

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

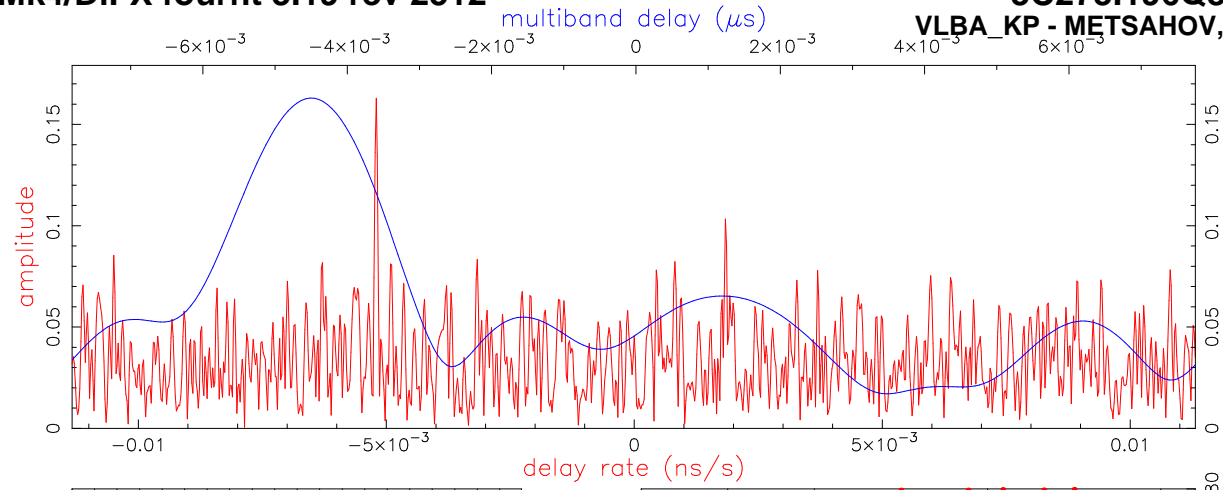
k: az 97.7 el 15.7 pa -57.3 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -11160.411 -3006.766 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kZ.W.131.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

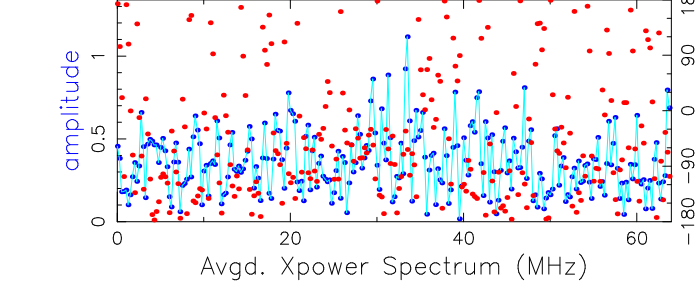
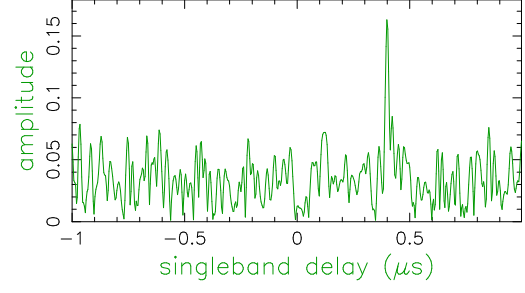
3C273.196Q8V, No0046, kZ

VLBA_KP - METSAHOV, fgroup W, pol RR



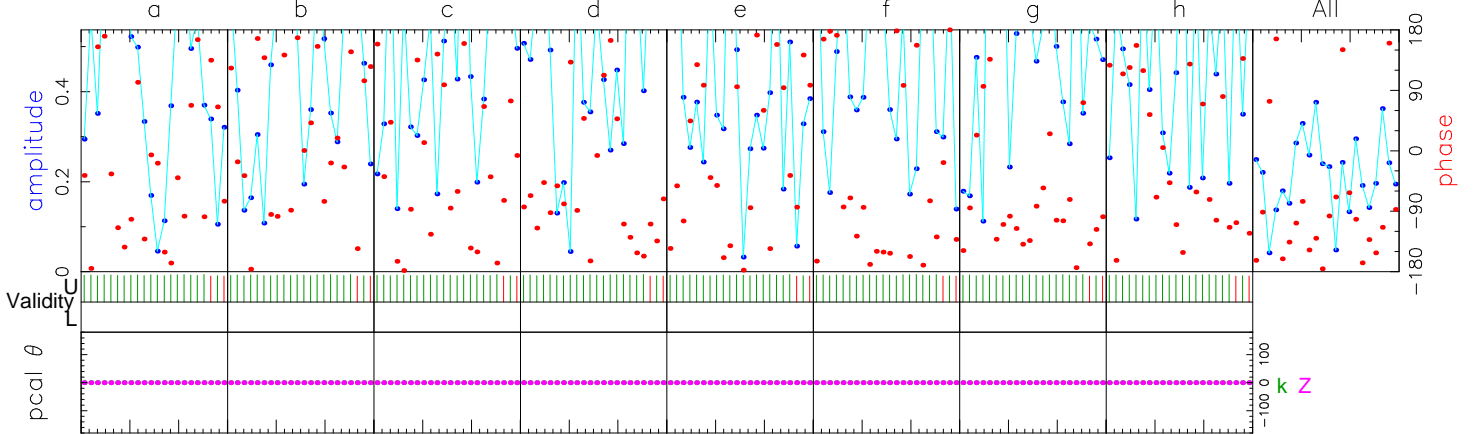
Fringe quality 0

SNR 5.9
 Int time 175.510
 Amp 0.179
 Phase -131.9
 PFD 3.1e-01
 Delays (us)
 SBD 0.399437
 MBD -0.004466
 Fringe rate (Hz)
 -0.449496
 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



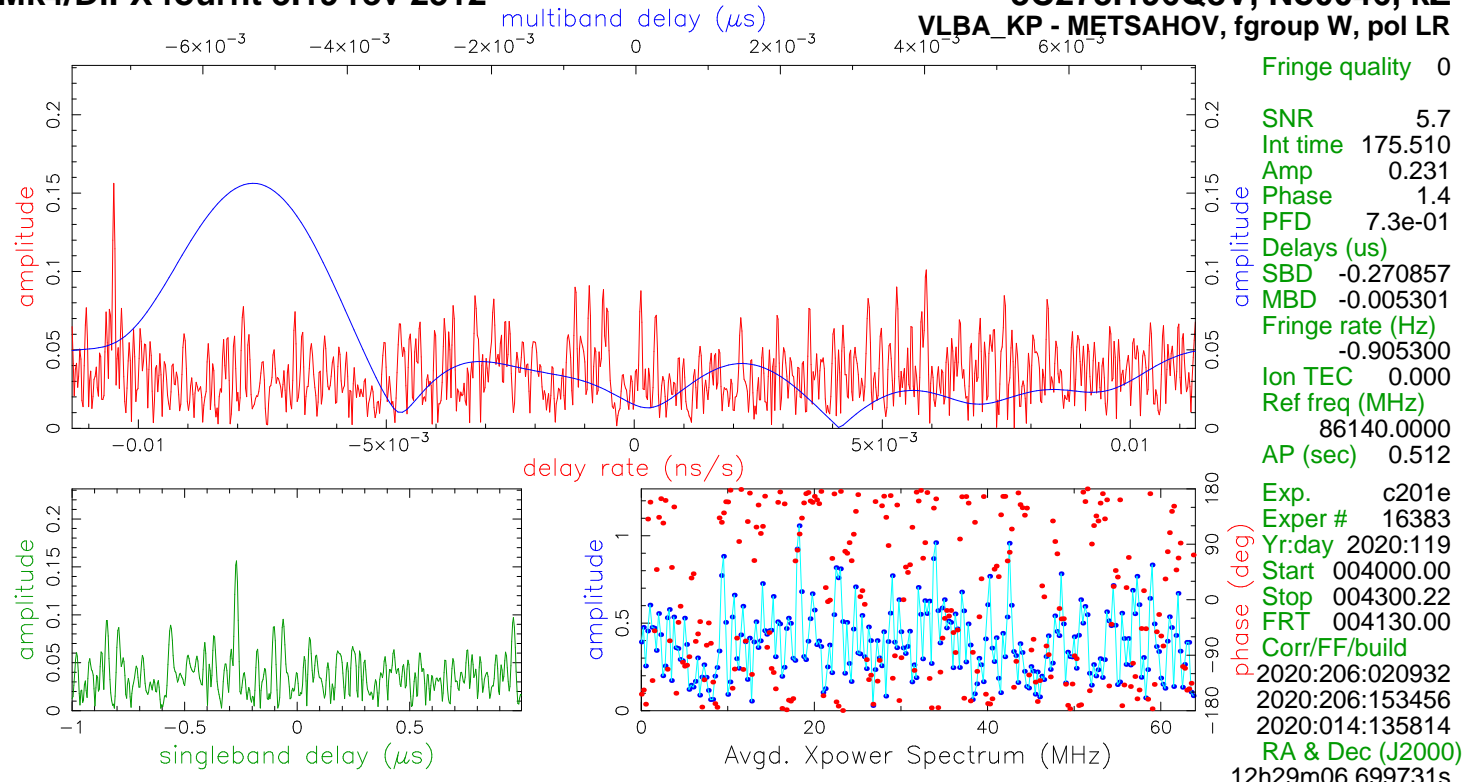
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.2	-162.6	-138.0	-101.5	-147.2	-149.2	-123.3	-140.6	Phase	-131.9
	0.2	0.1	0.1	0.3	0.1	0.3	0.3	0.1	Ampl.	0.2
	309.9	225.1	120.3	359.2	365.5	359.1	359.5	94.0	Sbd box	359.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.46777411887E+02		Apriori delay (usec)		5.46375627636E+02		Resid mbdelay (usec)		-4.46575E-03	+/- 1.8E-04
Sband delay (usec)	5.46775064386E+02		Apriori clock (usec)		-2.2300291E-01		Resid sbdelay (usec)		3.99437E-01	+/- 1.5E-03
Phase delay (usec)	5.46375623383E+02		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		-4.25272E-06	+/- 6.2E-07
Delay rate (us/s)	1.94706286271E+00		Apriori rate (us/s)		1.94706808091E+00		Resid rate (us/s)		-5.21820E-06	+/- 6.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.20176684190E-06		Resid phase (deg)		-131.9	+/- 19.3

ph/seg (deg) 53.2 45.2 Search (1024X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.8 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.8 27.3 Inc. seg. avg. 0.180 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.9 47.6 Inc. frq. avg. 0.169 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 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -11160.411 -3006.766 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kZ.W.148.196Q8V

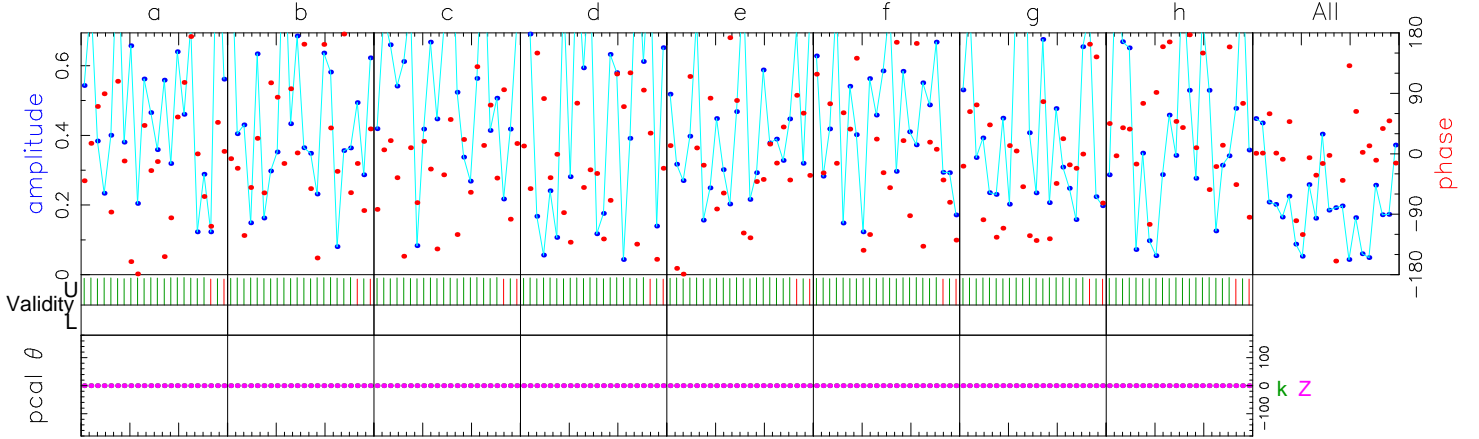
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, kZ

VLBA_KP - METSAHOV, 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
	36.7	1.5	-3.1	-16.7	-8.7	-14.2	-19.8	45.9	Phase	1.4
	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	403.3	96.4	187.7	306.9	396.7	61.3	253.8	112.7	Sbd box	187.7
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.46104701240E+02		Apriori delay (usec)		5.46375627636E+02		Resid mbdelay (usec)		-5.30140E-03	+/- 1.9E-04
Sband delay (usec)	5.46104770636E+02		Apriori clock (usec)		-2.2300291E-01		Resid sbdelay (usec)		-2.70857E-01	+/- 1.5E-03
Phase delay (usec)	5.46375627681E+02		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		4.50882E-08	+/- 6.5E-07
Delay rate (us/s)	1.94705757127E+00		Apriori rate (us/s)		1.94706808091E+00		Resid rate (us/s)		-1.05096E-05	+/- 6.2E-09
Total phase (deg)	204.6		Apriori accel (us/s/s)		-4.20176684190E-06		Resid phase (deg)		1.4	+/- 20.0

	RMS	Theor.	Amplitude	0.231 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	61.8	47.0	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	80.2	82.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	27.0	28.3	Inc. seg. avg.	0.225	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	28.6	49.5	Inc. frq. avg.	0.220	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

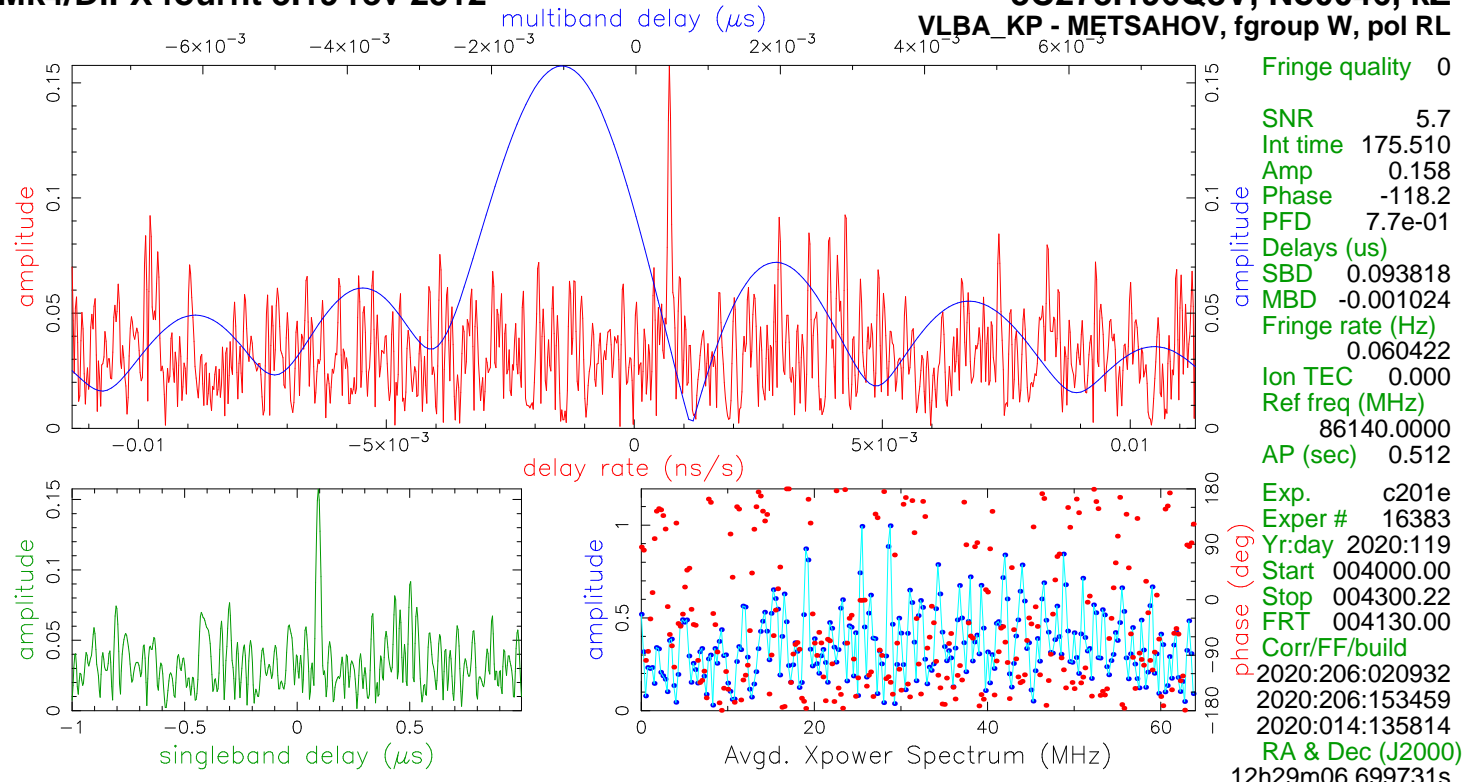
k: az 97.7 el 15.7 pa -57.3 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -11160.411 -3006.766 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kZ.W.160.196Q8V

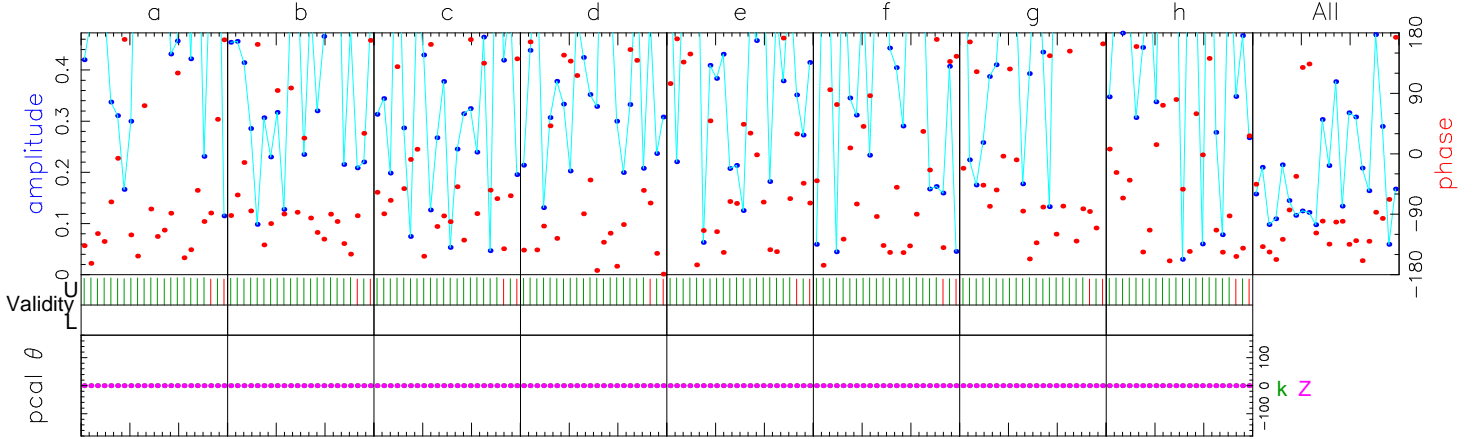
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, kZ

VLBA_KP - METSAHOV, 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

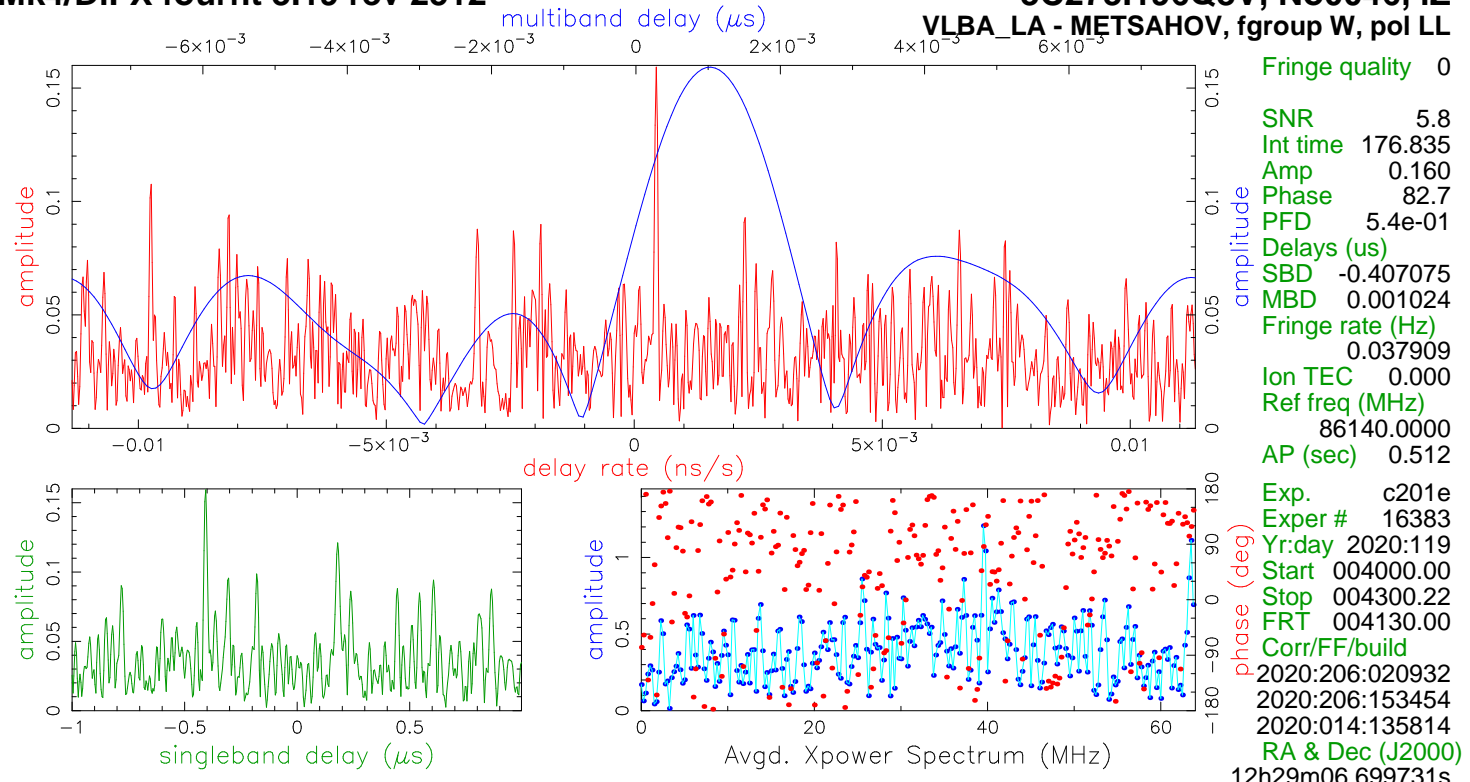


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.5	-103.7	-102.5	-151.6	-136.9	-127.3	-97.7	-135.2	Phase	-118.2
	0.3	0.2	0.1	0.2	0.1	0.1	0.3	0.1	Ampl.	0.1
	281.2	309.2	207.6	209.7	292.8	180.0	313.3	393.2	Sbd box	281.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.46468353850E+02		Apriori delay (usec)		5.46375627636E+02		Resid mbdelay (usec)		-1.02379E-03	+/- 1.9E-04
Sband delay (usec)	5.46469445386E+02		Apriori clock (usec)		-2.2300291E-01		Resid sbdelay (usec)		9.38177E-02	+/- 1.5E-03
Phase delay (usec)	5.46375623825E+02		Apriori clockrate (us/s)		-1.0600001E-08		Resid phdelay (usec)		-3.81066E-06	+/- 6.5E-07
Delay rate (us/s)	1.94706878235E+00		Apriori rate (us/s)		1.94706808091E+00		Resid rate (us/s)		7.01439E-07	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.20176684190E-06		Resid phase (deg)		-118.2	+/- 20.1

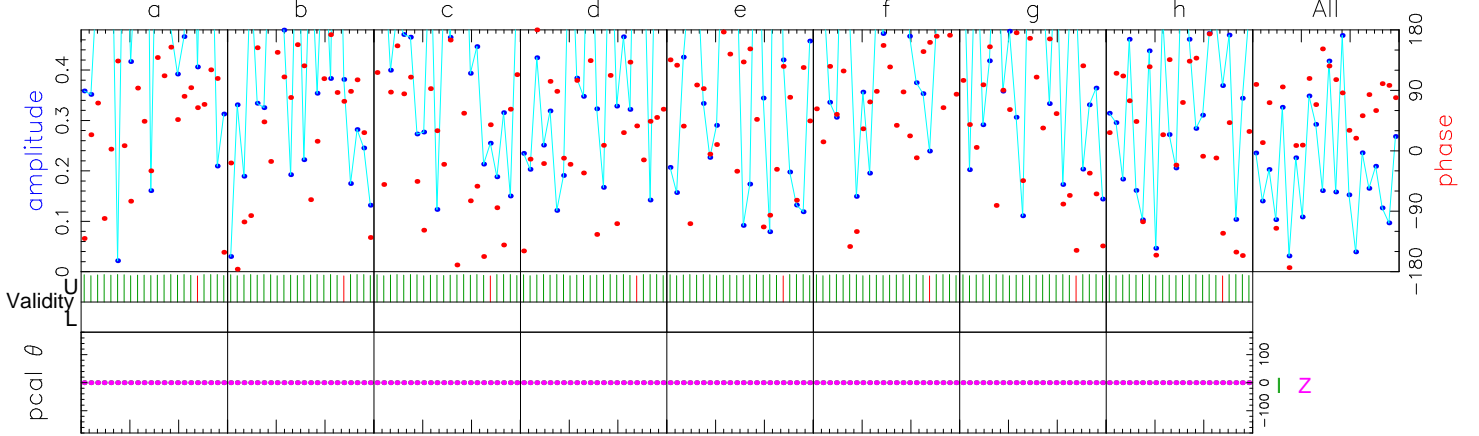
	RMS	Theor.	Amplitude	0.158 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.1	47.2	Search (1024X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	70.5	82.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	21.3	28.4	Inc. seg. avg.	0.150	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	47.5	49.6	Inc. frq. avg.	0.148	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 97.7 el 15.7 pa -57.3 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -11160.411 -3006.766 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kZ.W.175.196Q8V



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



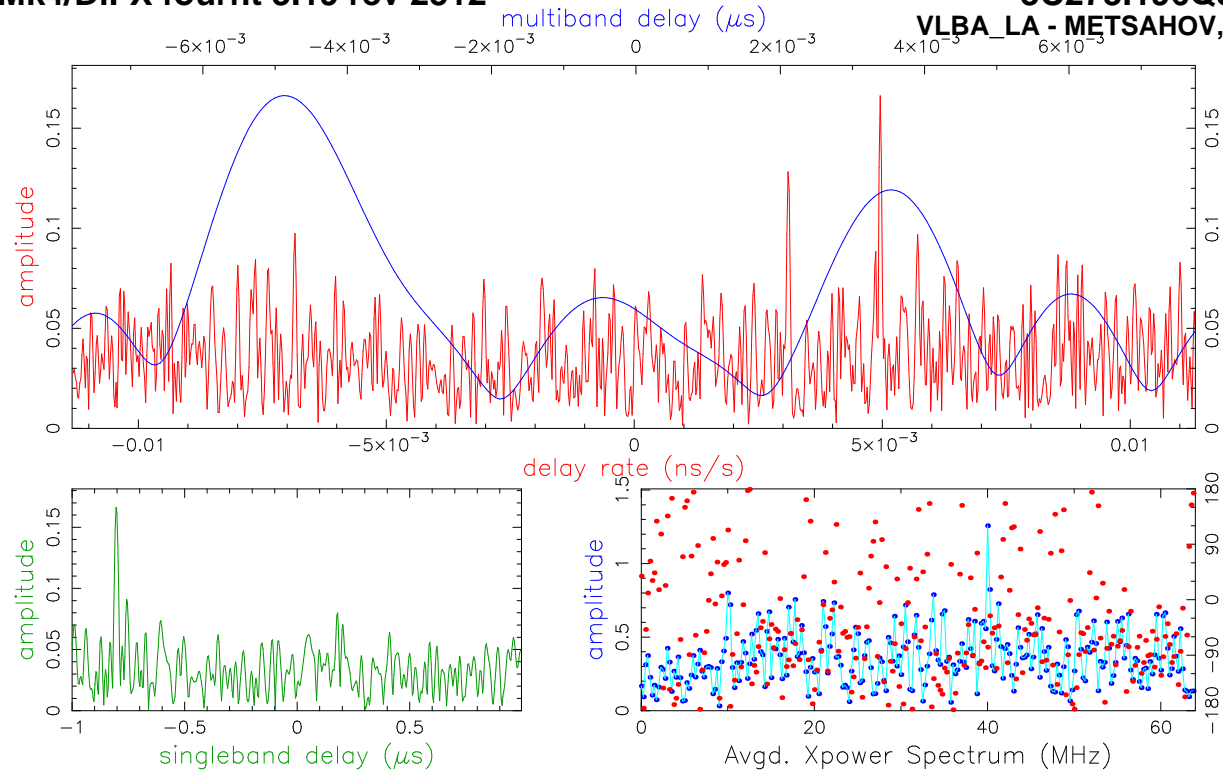
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	1.85999356798E+03	Apriori delay (usec)	1.86039879420E+03	Resid mbdelay (usec)	1.02377E-03	+/-	1.9E-04
Sband delay (usec)	1.85999171920E+03	Apriori clock (usec)	-3.6173096E+00	Resid sbdelay (usec)	-4.07075E-01	+/-	1.5E-03
Phase delay (usec)	1.86039879687E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	2.66675E-06	+/-	6.4E-07
Delay rate (us/s)	1.85136009718E+00	Apriori rate (us/s)	1.85135965710E+00	Resid rate (us/s)	4.40081E-07	+/-	6.1E-09
Total phase (deg)	130.4	Apriori accel (us/s/s)	-1.09947587555E-05	Resid phase (deg)	82.7	+/-	19.7

ph/seg (deg)	RMS 56.7	Theor. 46.2	Amplitude Search (1024X32)	0.160 +/- 0.028	0.158	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	75.3	80.7	Interp.	0.000	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	23.4	27.9	Inc. seg. avg.	0.155	0.155	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	56.1	48.6	Inc. frq. avg.	0.150	0.150	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 102.1 el 19.4 pa -52.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10615.330 -2535.326 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IZ_..196Q8V Output file: /Exps/c201e/v1/1234/No0046/IZ.W.145.196Q8V

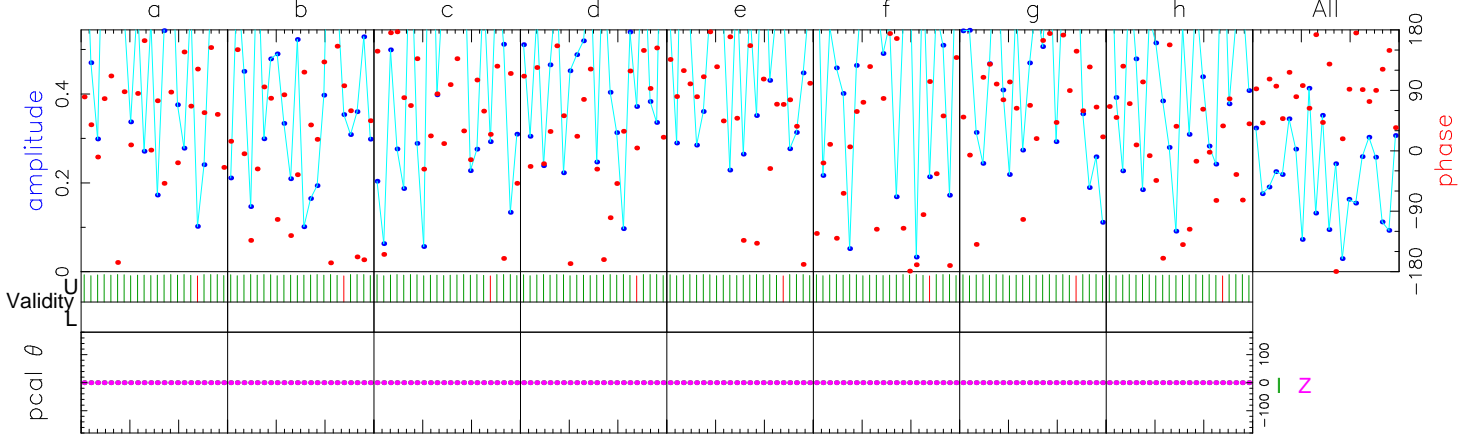


Fringe quality 0

SNR 6.1
 Int time 176.835
 Amp 0.181
 Phase 88.0
 PFD 1.4e-01
 Delays (us)
 SBD -0.803437
 MBD -0.004844
 Fringe rate (Hz)
 0.427380
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

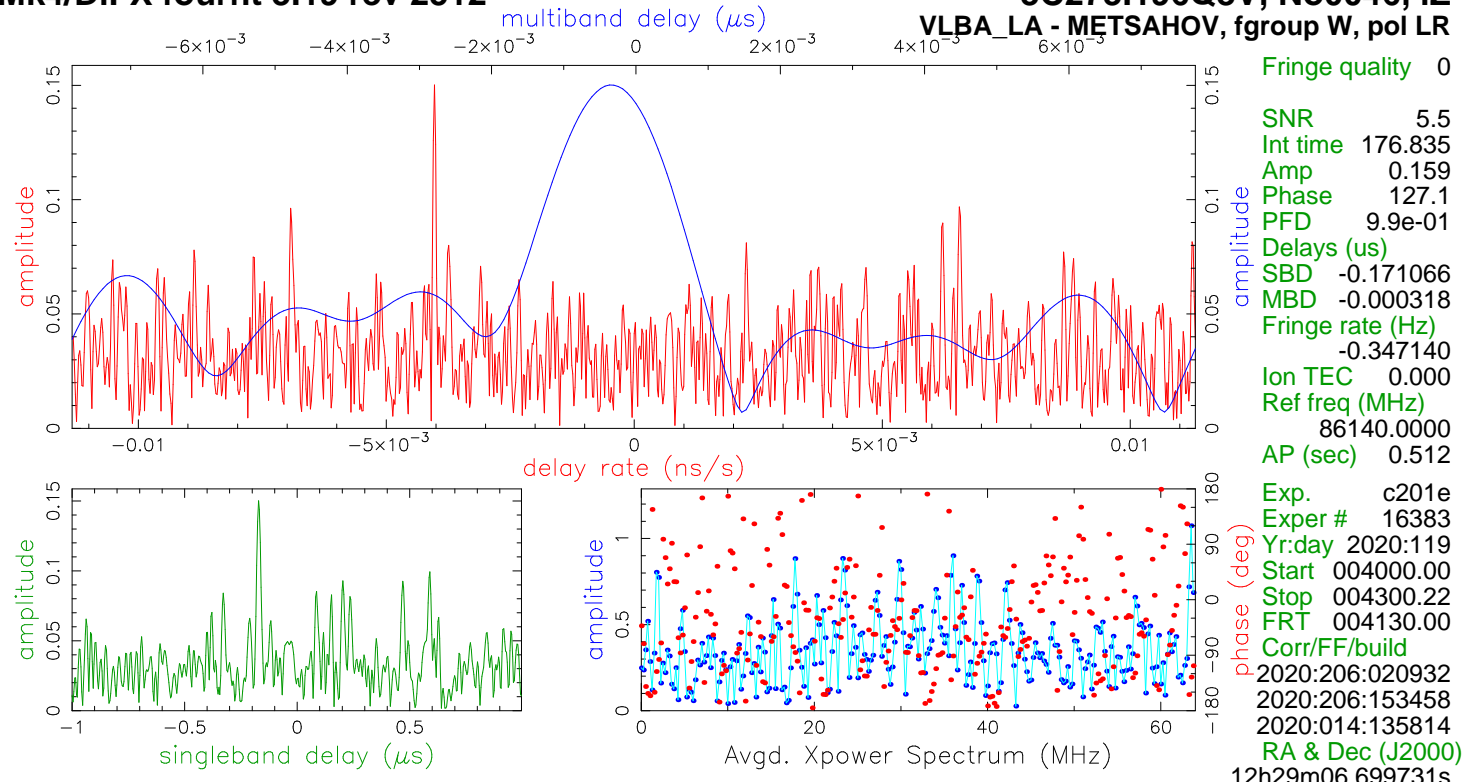
Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153456
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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

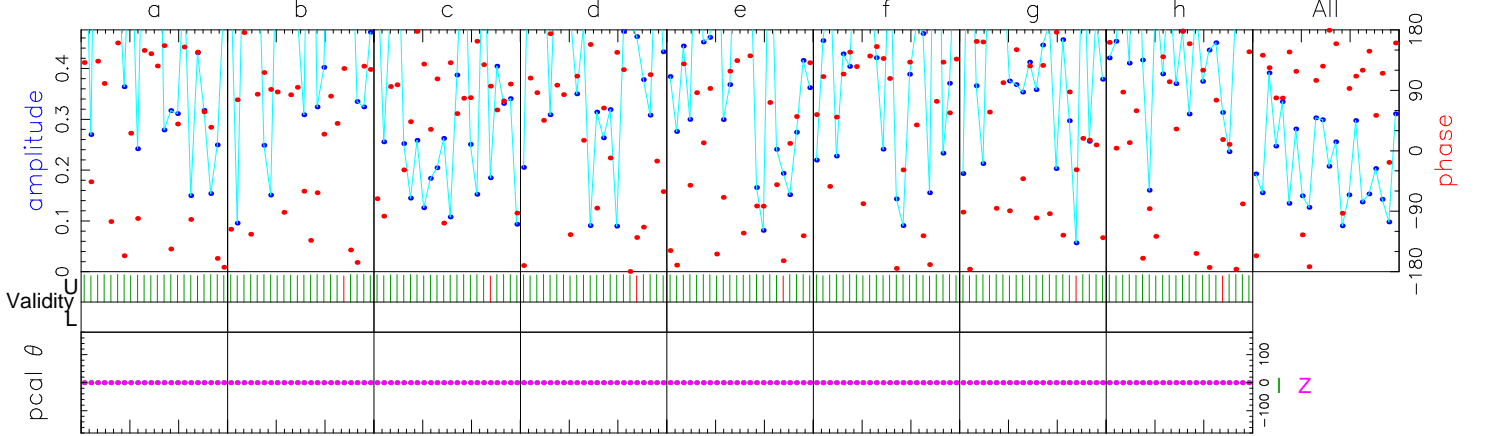


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
Group delay (usec)(sbd)		1.85959707545E+03				1.86039879420E+03			Resid mbdelay (usec)	-4.84375E-03 +/- 1.8E-04
Sband delay (usec)		1.85959535695E+03				-3.6173096E+00			Resid sbdelay (usec)	-8.03437E-01 +/- 1.4E-03
Phase delay (usec)		1.86039879704E+03				-1.6700000E-07			Resid phdelay (usec)	2.83791E-06 +/- 6.1E-07
Delay rate (us/s)		1.85136461856E+00				1.85135965710E+00			Resid rate (us/s)	4.96146E-06 +/- 5.8E-09
Total phase (deg)			135.7						Resid phase (deg)	88.0 +/- 18.8

ph/seg (deg) 45.7 44.1 Search (1024X32) 0.165 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.2 77.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.9 26.6 Inc. seg. avg. 0.180 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.7 46.4 Inc. frq. avg. 0.196 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 102.1 el 19.4 pa -52.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10615.330 -2535.326 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IZ...196Q8V Output file: /Exps/c201e/v1/1234/No0046/IZ.W.159.196Q8V

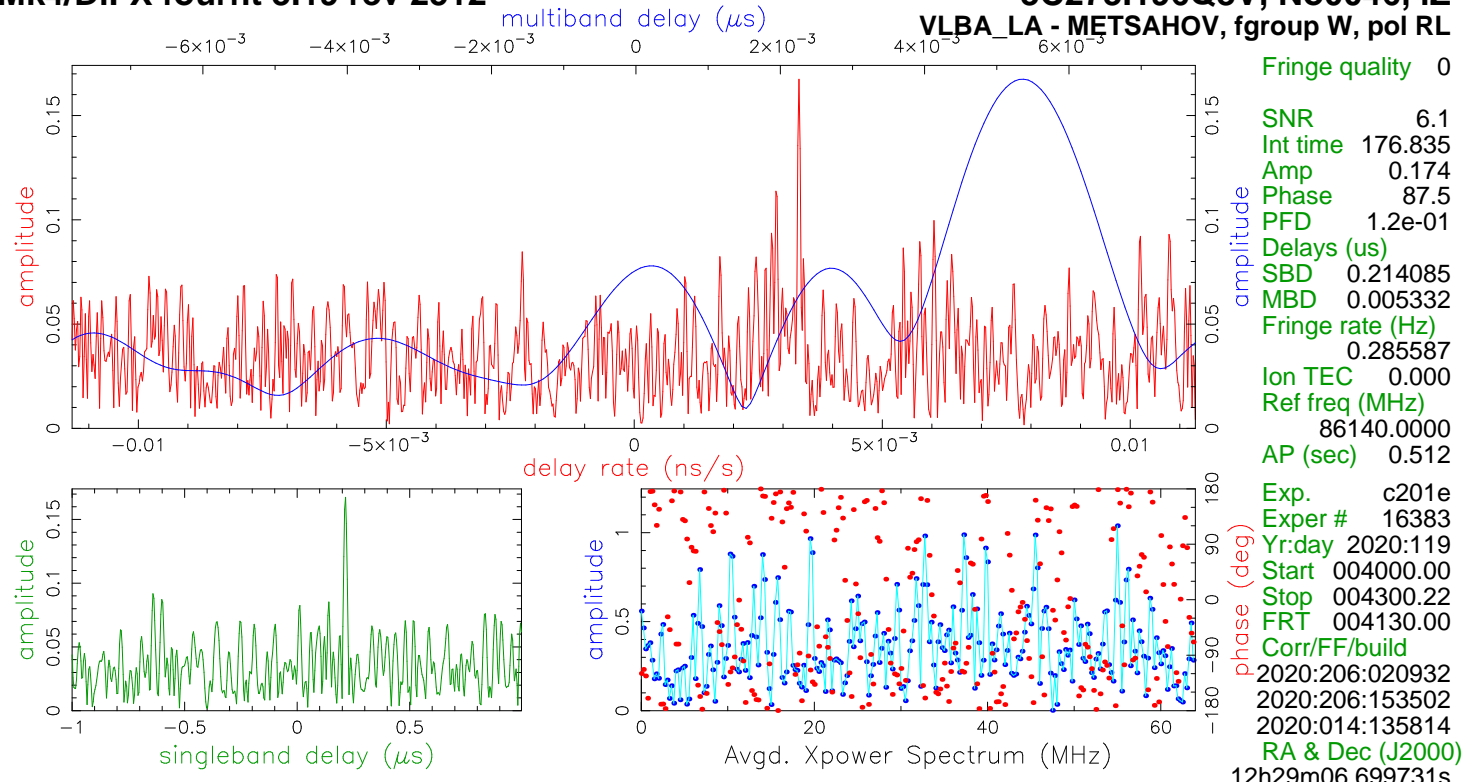


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

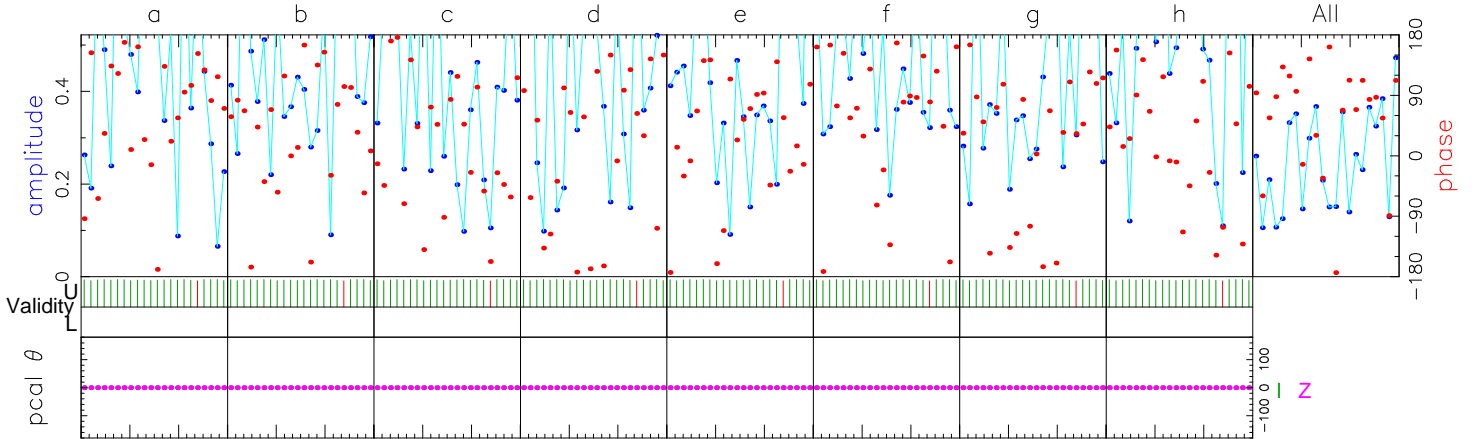


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.86022660085E+03				1.86039879420E+03			Resid mbdelay (usec)	-3.18349E-04 +/- 2.0E-04
Sband delay (usec)		1.86022772845E+03				-3.6173096E+00			Resid sbdelay (usec)	-1.71066E-01 +/- 1.6E-03
Phase delay (usec)		1.86039879830E+03				-1.6700000E-07			Resid phdelay (usec)	4.09972E-06 +/- 6.7E-07
Delay rate (us/s)		1.85135562714E+00				1.85135965710E+00			Resid rate (us/s)	-4.02996E-06 +/- 6.5E-09
Total phase (deg)			174.9			-1.09947587555E-05			Resid phase (deg)	127.1 +/- 20.9

	RMS	Theor.	Amplitude	0.159 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.5	49.1	Search (1024X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.9	85.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	36.1	29.6	Inc. seg. avg.	0.163	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	49.2	51.7	Inc. frq. avg.	0.152	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			



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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.86060725087E+03	Apriori delay (usec)	1.86039879420E+03	Resid mbdelay (usec)	5.33167E-03	+/-	1.8E-04
Sband delay (usec)	1.86061287920E+03	Apriori clock (usec)	-3.6173096E+00	Resid sbdelay (usec)	2.14085E-01	+/-	1.4E-03
Phase delay (usec)	1.86039879702E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	2.82209E-06	+/-	6.0E-07
Delay rate (us/s)	1.85136297248E+00	Apriori rate (us/s)	1.85135965710E+00	Resid rate (us/s)	3.31538E-06	+/-	5.8E-09
Total phase (deg)	135.2	Apriori accel (us/s/s)	-1.09947587555E-05	Resid phase (deg)	87.5	+/-	18.8

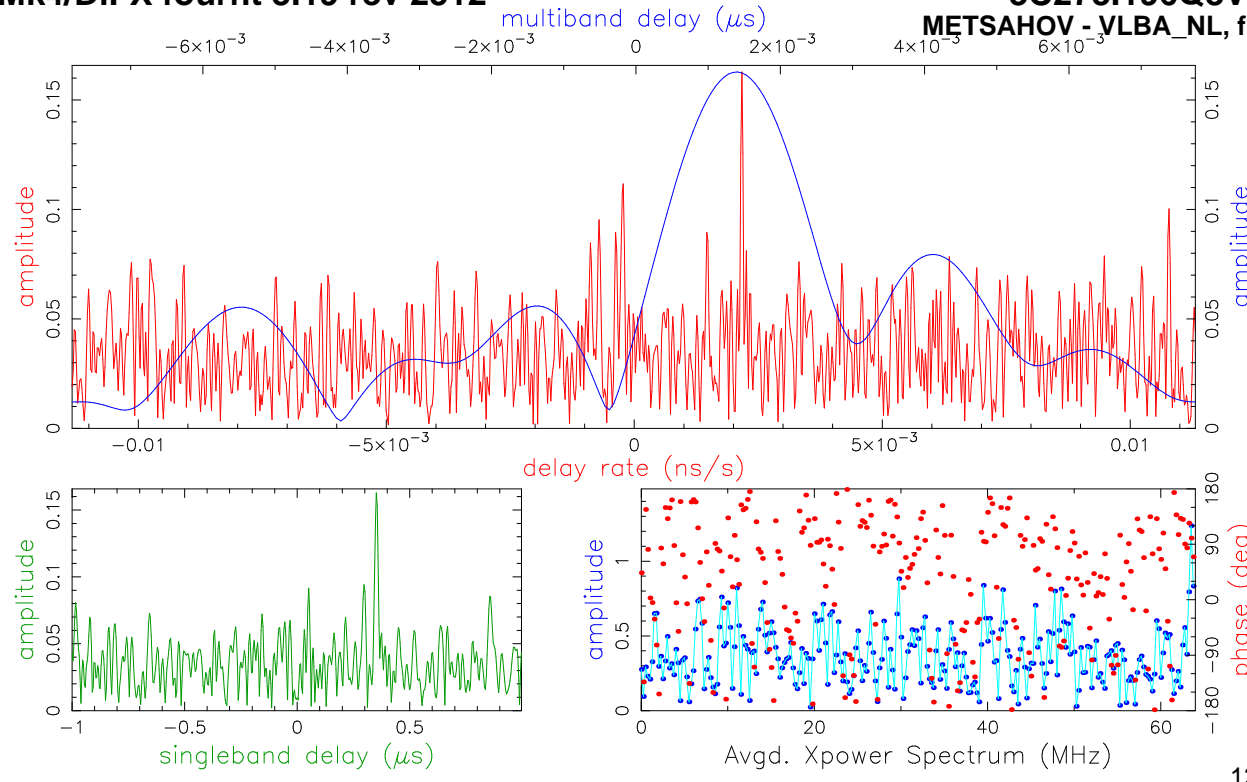
ph/seg (deg)	69.5	Theor.	44.0	Amplitude	0.174 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	79.6	Search (1024X32)	0.160	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	39.4	Inc. seg. avg.	0.200	Inc. frq. avg.	0.170	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	39.8	Inc. frq. avg.	0.170			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	

I: az 102.1 el 19.4 pa -52.5 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) -10615.330 -2535.326 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IZ...196Q8V Output file: /Exps/c201e/v1/1234/No0046/IZ.W.196.196Q8V

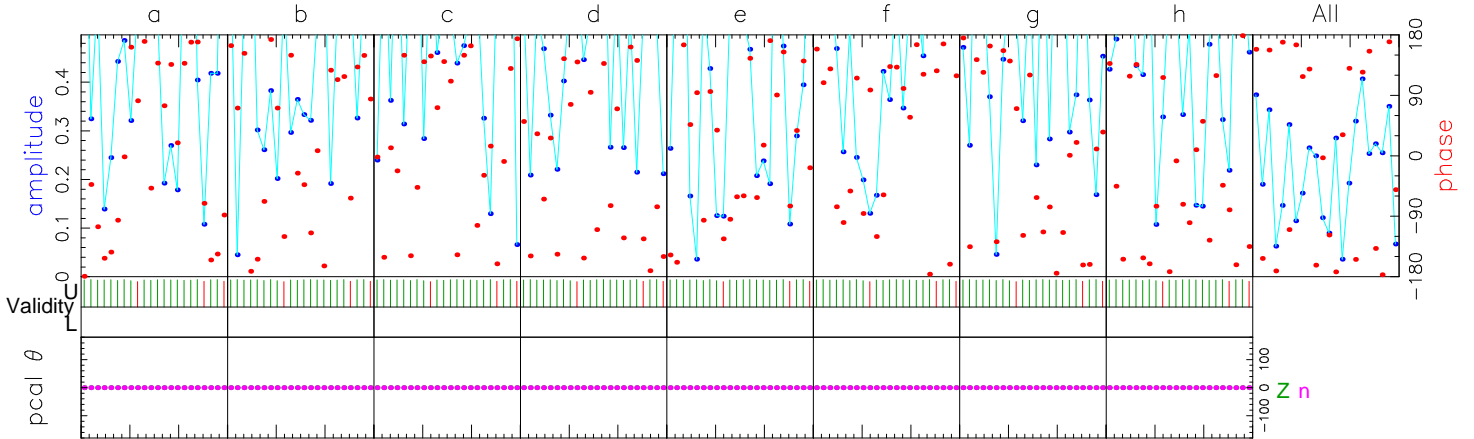
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zn
 METSAHOV - VLBA_NL, fgroup W, pol LL



Fringe quality 0
 SNR 5.9
 Int time 176.040
 Amp 0.166
 Phase 173.8
 PFD 3.3e-01
 Delays (us)
 SBD 0.352295
 MBD 0.001401
 Fringe rate (Hz)
 0.186267
 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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

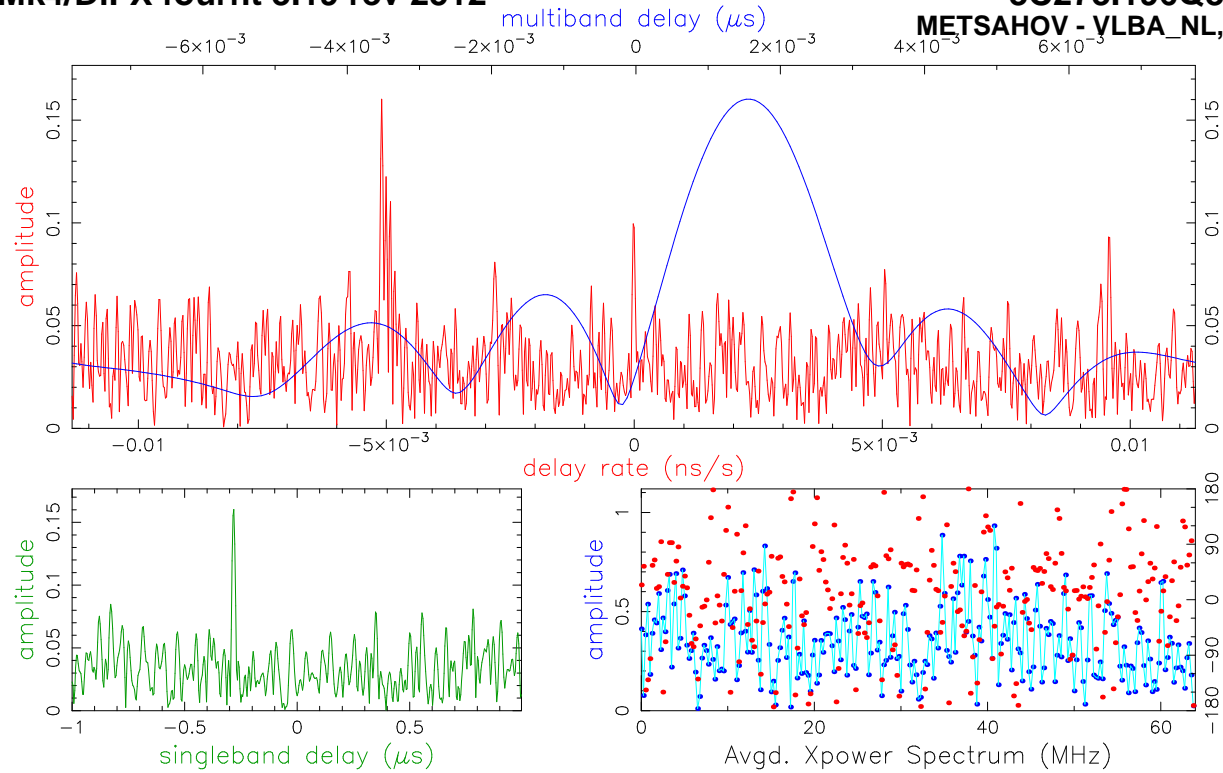
Group delay (usec)(sbd)	-4.90797877352E+03	Apriori delay (usec)	-4.90832392417E+03	Resid mbdelay (usec)	1.40065E-03	+/-	1.8E-04
Sband delay (usec)	-4.90797162942E+03	Apriori clock (usec)	-3.2452087E+01	Resid sbdelay (usec)	3.52295E-01	+/-	1.5E-03
Phase delay (usec)	-4.90832391856E+03	Apriori clockrate (us/s)	-3.1799997E-07	Resid phdelay (usec)	5.60597E-06	+/-	6.2E-07
Delay rate (us/s)	-1.60826125843E+00	Apriori rate (us/s)	-1.60826342080E+00	Resid rate (us/s)	2.16237E-06	+/-	6.0E-09
Total phase (deg)	-124.2	Apriori accel (us/s/s)	2.66986249492E-05	Resid phase (deg)	173.8	+/-	19.3

ph/seg (deg)	65.9	Theor.	45.3	Amplitude	0.166 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	74.5		79.1	Search (1024X32)	0.153	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	18.3		27.3	Inc. seg. avg.	0.171	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.8		47.7	Inc. frq. avg.	0.155	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 247.3 el 14.6 pa 27.3 n: az 115.5 el 28.3 pa -42.4 u,v (fr/asec) 9230.156 1857.003 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zn..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zn.W.212.196Q8V

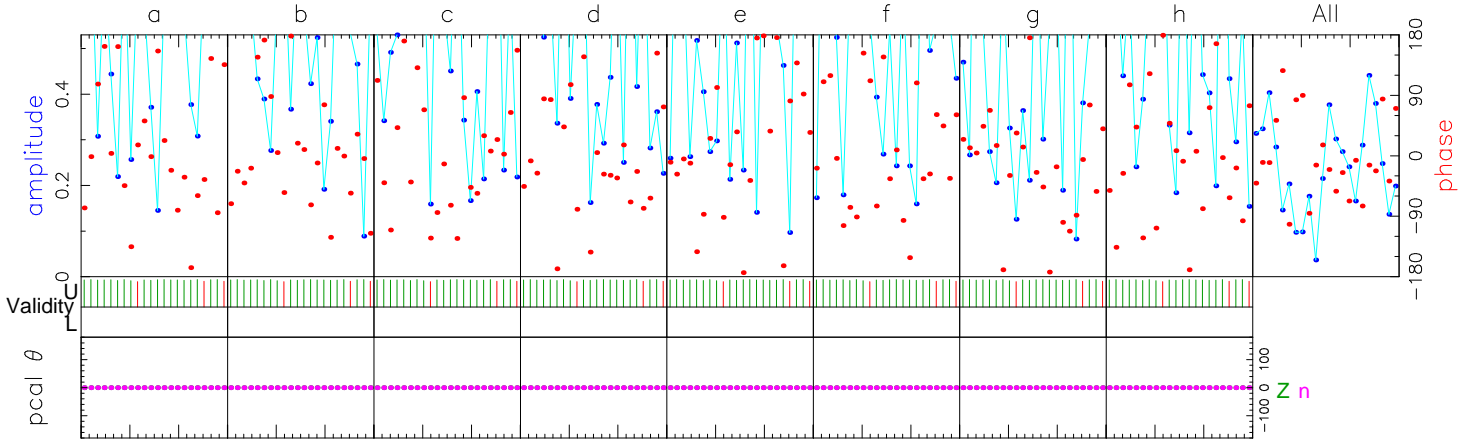
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zn
 METSAHOV - VLBA_NL, fgroup W, pol RR



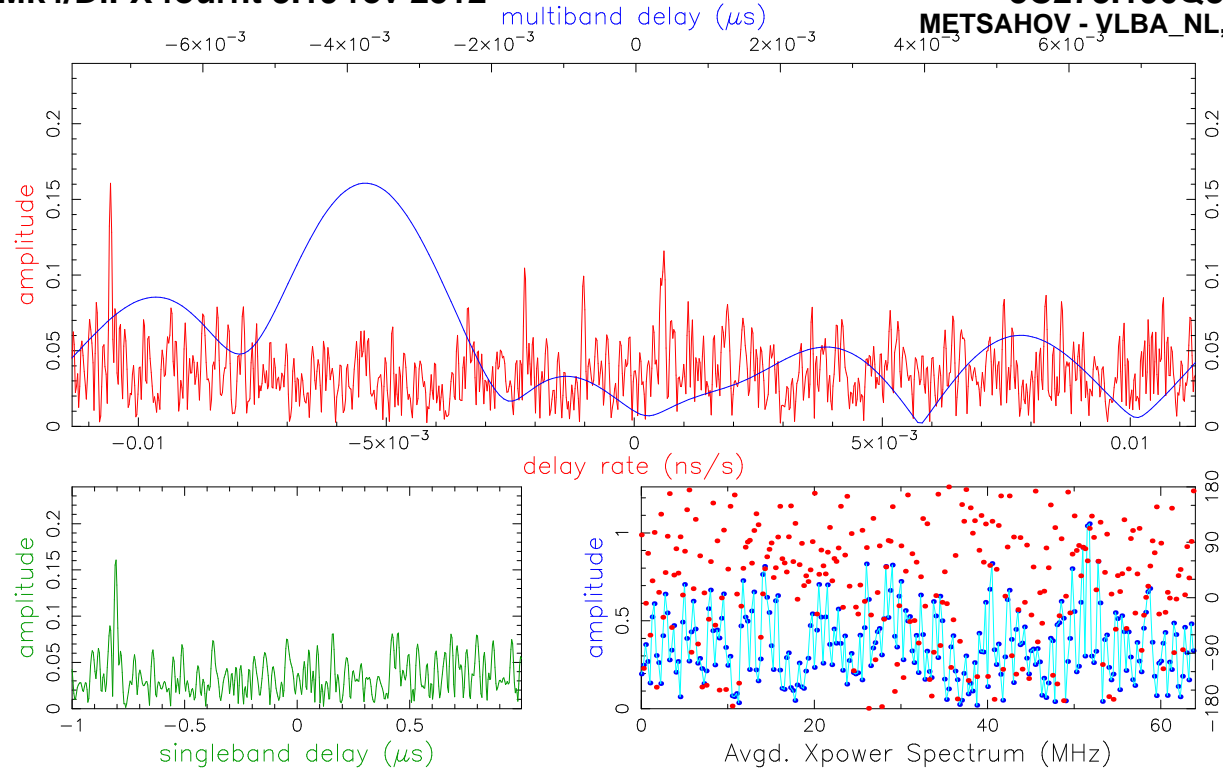
Fringe quality 0
 SNR 5.9
 Int time 176.041
 Amp 0.177
 Phase -16.9
 PFD 3.9e-01
 Delays (us)
 SBD -0.282627
 MBD 0.001518
 Fringe rate (Hz)
 -0.439344
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153511
 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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.90860365571E+03				-4.90832392417E+03				1.51846E-03	+/- 1.8E-04
Sband delay (usec)	-4.90860655142E+03				-3.2452087E+01				-2.82627E-01	+/- 1.5E-03
Phase delay (usec)	-4.90832392471E+03				-3.1799997E-07				-5.44499E-07	+/- 6.3E-07
Delay rate (us/s)	-1.60826852116E+00				-1.60826342080E+00				-5.10035E-06	+/- 6.0E-09
Total phase (deg)			-315.0		2.66986249492E-05				-16.9	+/- 19.5
	RMS	Theor.	Amplitude	0.177 +/- 0.030						
ph/seg (deg)	62.6	45.6	Search (1024X32)	0.155						
amp/seg (%)	81.7	79.6	Interp.	0.000						
ph/frq (deg)	13.1	27.5	Inc. seg. avg.	0.201						
amp/frq (%)	42.8	48.0	Inc. frq. avg.	0.159						
Z: az 247.3 el 14.6 pa 27.3			n: az 115.5 el 28.3 pa -42.4							
			u,v (fr/asec) 9230.156 1857.003							
Control file: cf_1234_gmva	Input file: /Exps/c201e/v1/1234/No0046/Zn..196Q8V	Output file: /Exps/c201e/v1/1234/No0046/Zn.W.251.196Q8V								

simultaneous interpolator

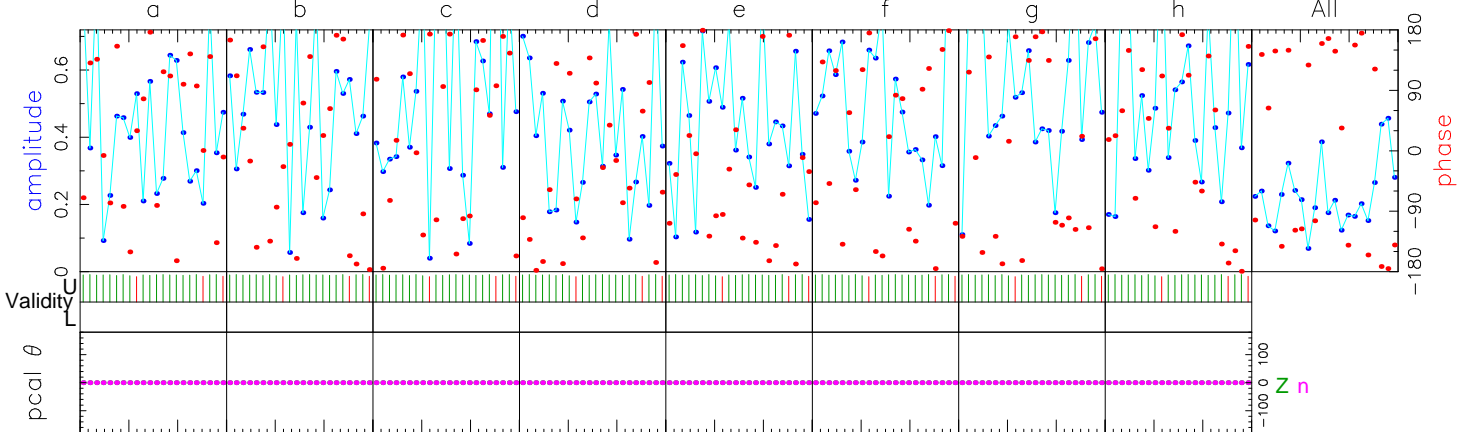


Fringe quality 0

SNR 5.9
 Int time 176.041
 Amp 0.240
 Phase -176.8
 PFD 3.6e-01
 Delays (us)
 SBD -0.806043
 MBD -0.003772
 Fringe rate (Hz)
 -0.911244
 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
 2020:206:153513
 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

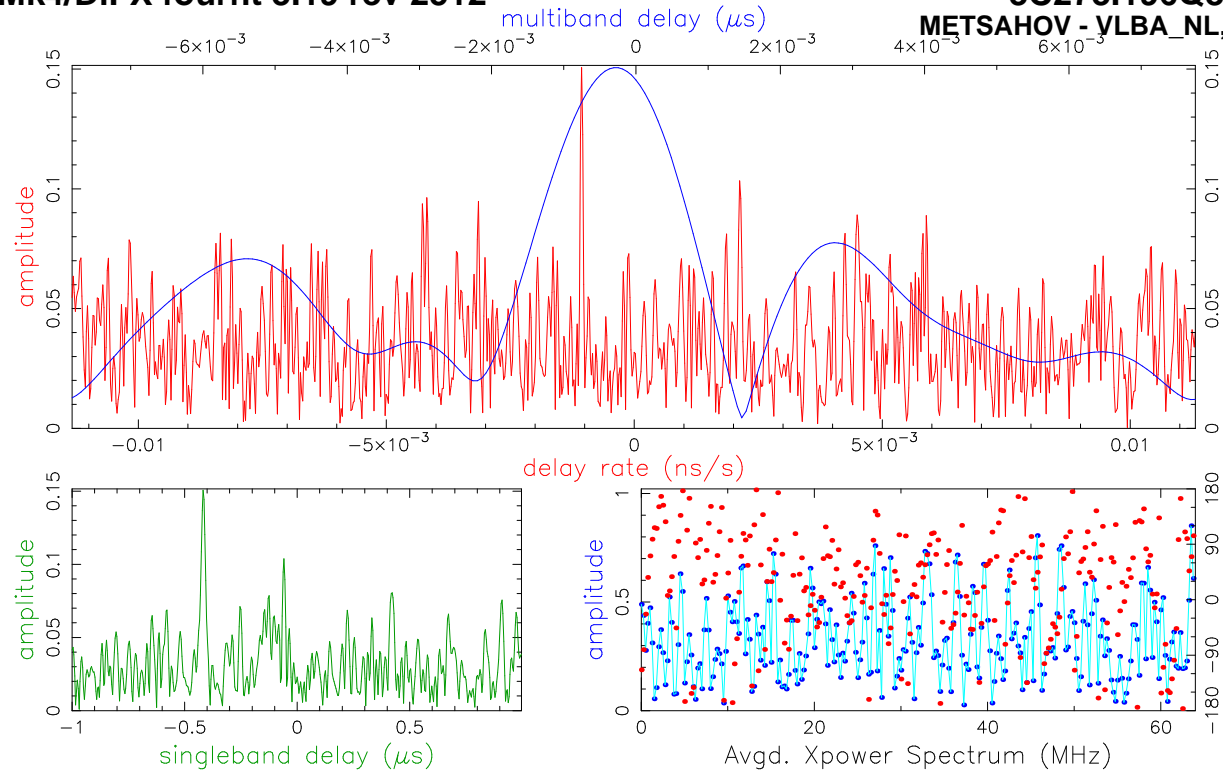


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n	0:0	0:0	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.90912457150E+03				-4.90832392417E+03				Resid mbdelay (usec)	-3.77233E-03 +/- 1.8E-04
Sband delay (usec)	-4.90912996742E+03				-3.2452087E+01				Resid sbdelay (usec)	-8.06043E-01 +/- 1.5E-03
Phase delay (usec)	-4.90832392987E+03				-3.1799997E-07				Resid phdelay (usec)	-5.70097E-06 +/- 6.3E-07
Delay rate (us/s)	-1.60827399945E+00				-1.60826342080E+00				Resid rate (us/s)	-1.05786E-05 +/- 6.0E-09
Total phase (deg)		-114.9			2.66986249492E-05				Resid phase (deg)	-176.8 +/- 19.4

ph/seg (deg) 57.4 45.5 Search (1024X32) 0.156 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.3 79.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.4 27.4 Inc. seg. avg. 0.256 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.0 47.9 Inc. frq. avg. 0.244 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 n: az 115.5 el 28.3 pa -42.4 u,v (fr/asec) 9230.156 1857.003 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zn..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zn.W.261.196Q8V

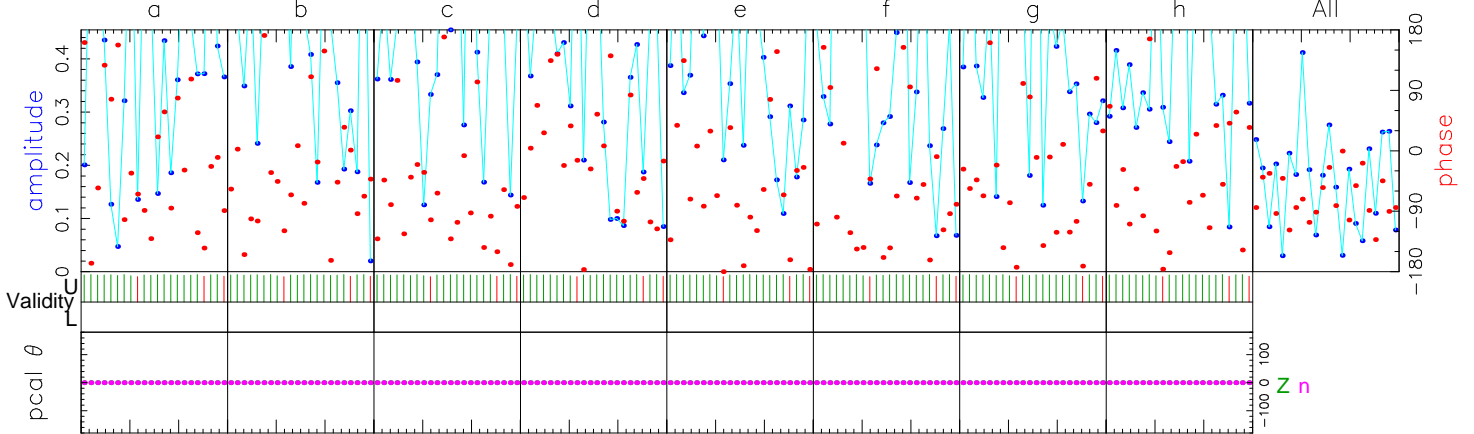
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zn
 METSAHOV - VLBA_NL, fgroup W, pol RL



Fringe quality 0
 SNR 5.5
 Int time 176.040
 Amp 0.152
 Phase -75.0
 PFD 9.9e-01
 Delays (us)
 SBD -0.417237
 MBD -0.000273
 Fringe rate (Hz)
 -0.091944
 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
 2020:206:153514
 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



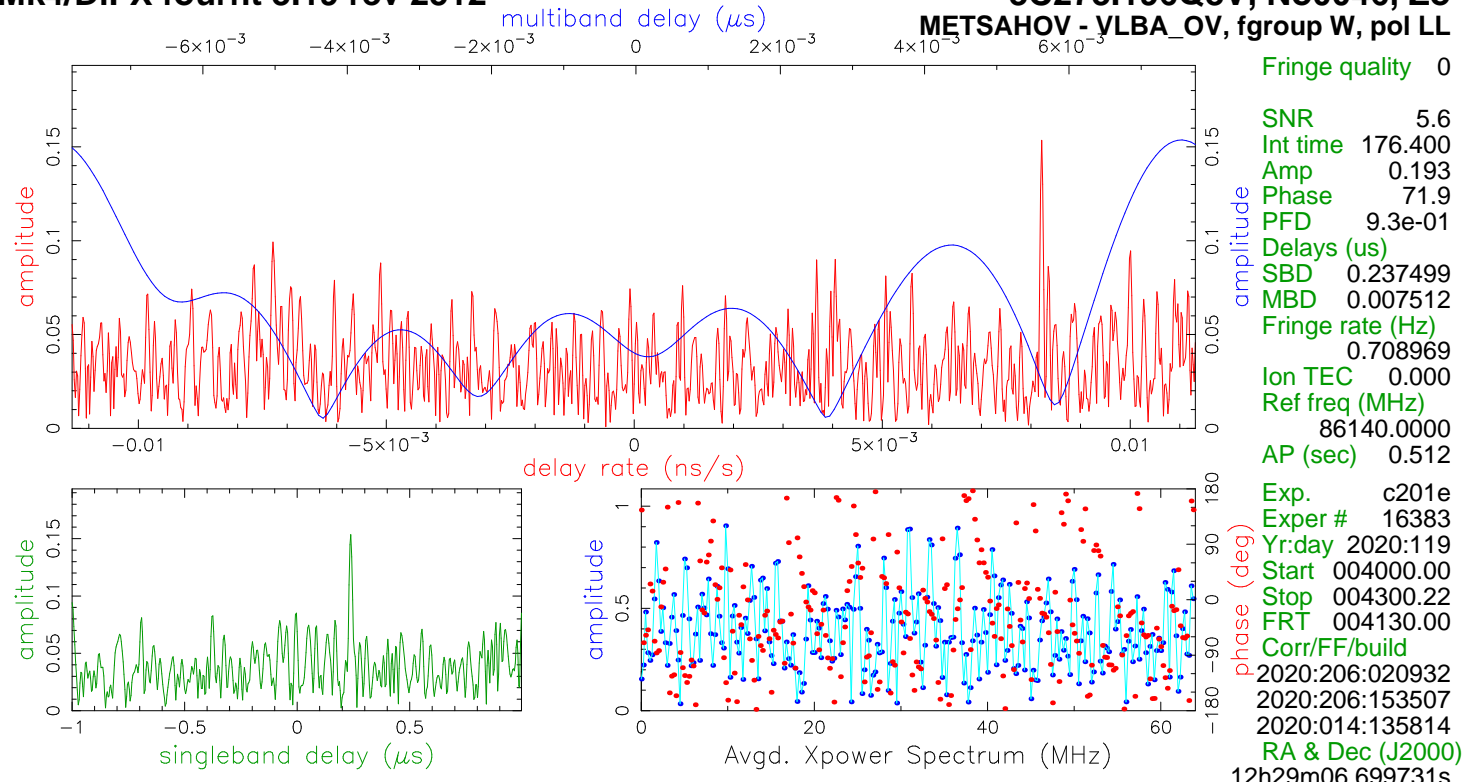
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-67.6	-67.5	-99.1	-6.3	-67.6	-122.3	-64.0	-56.2	Phase	-75.0
	0.1	0.2	0.3	0.1	0.1	0.2	0.1	0.2	Ampl.	0.2
	112.4	460.6	149.5	342.3	189.0	363.1	391.2	474.9	Sbd box	150.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.90874607180E+03		Apriori delay (usec)		-4.90832392417E+03		Resid mbdelay (usec)		-2.72633E-04	+/- 2.0E-04
Sband delay (usec)	-4.90874116092E+03		Apriori clock (usec)		-3.2452087E+01		Resid sbdelay (usec)		-4.17237E-01	+/- 1.6E-03
Phase delay (usec)	-4.90832392659E+03		Apriori clockrate (us/s)		-3.1799997E-07		Resid phdelay (usec)		-2.41874E-06	+/- 6.7E-07
Delay rate (us/s)	-1.60826448819E+00		Apriori rate (us/s)		-1.60826342080E+00		Resid rate (us/s)		-1.06738E-06	+/- 6.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.66986249492E-05		Resid phase (deg)		-75.0	+/- 20.9

ph/seg (deg) 34.1 49.1 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.0 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) 36.9 29.6 Inc. seg. avg. 0.126 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.1 51.6 Inc. frq. avg. 0.156 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 n: az 115.5 el 28.3 pa -42.4 u,v (fr/asec) 9230.156 1857.003 simultaneous interpolator

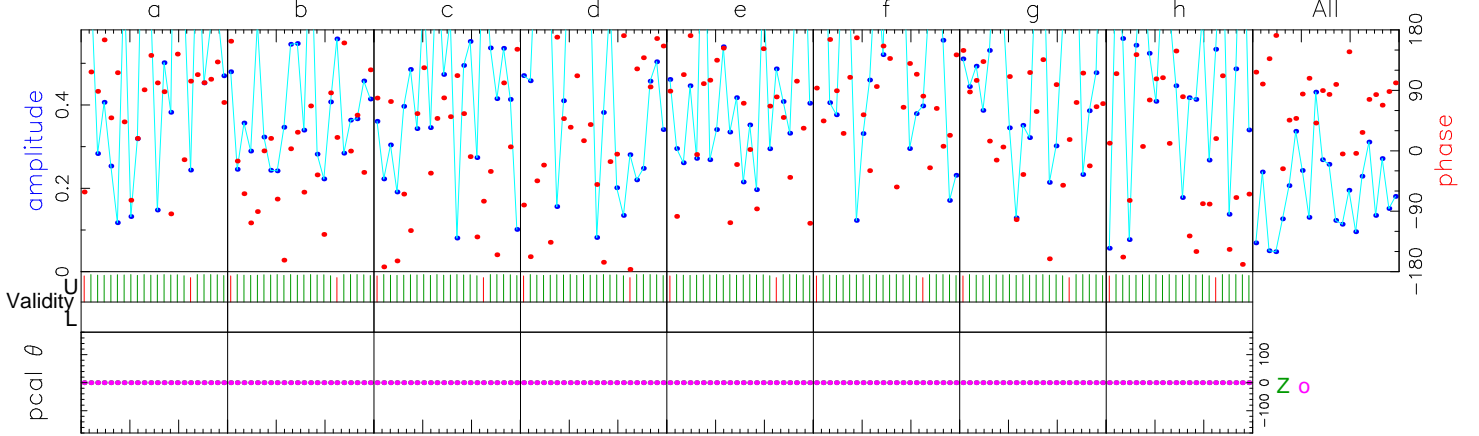
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zn..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zn.W.264.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zo
 METSAHOV - VLBA_OV, 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
	101.7	2.1	39.7	25.4	88.8	73.2	62.2	136.2	Phase	71.9
	0.4	0.2	0.1	0.1	0.2	0.4	0.3	0.1	Ampl.	0.2
	317.3	424.1	217.7	336.9	186.2	318.1	317.0	508.0	Sbd box	317.8
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	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.62541014859E+03		Apriori delay (usec)		1.62516826134E+03		Resid mbdelay (usec)		7.51225E-03	+/- 1.9E-04
Sband delay (usec)	1.62540576009E+03		Apriori clock (usec)		-2.0232409E+01		Resid sbdelay (usec)		2.37499E-01	+/- 1.5E-03
Phase delay (usec)	1.62516826366E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		2.32017E-06	+/- 6.6E-07
Delay rate (us/s)	-1.90558660837E+00		Apriori rate (us/s)		-1.90559483879E+00		Resid rate (us/s)		8.23043E-06	+/- 6.3E-09
Total phase (deg)	83.3		Apriori accel (us/s/s)		-7.73789008411E-06		Resid phase (deg)		71.9	+/- 20.5

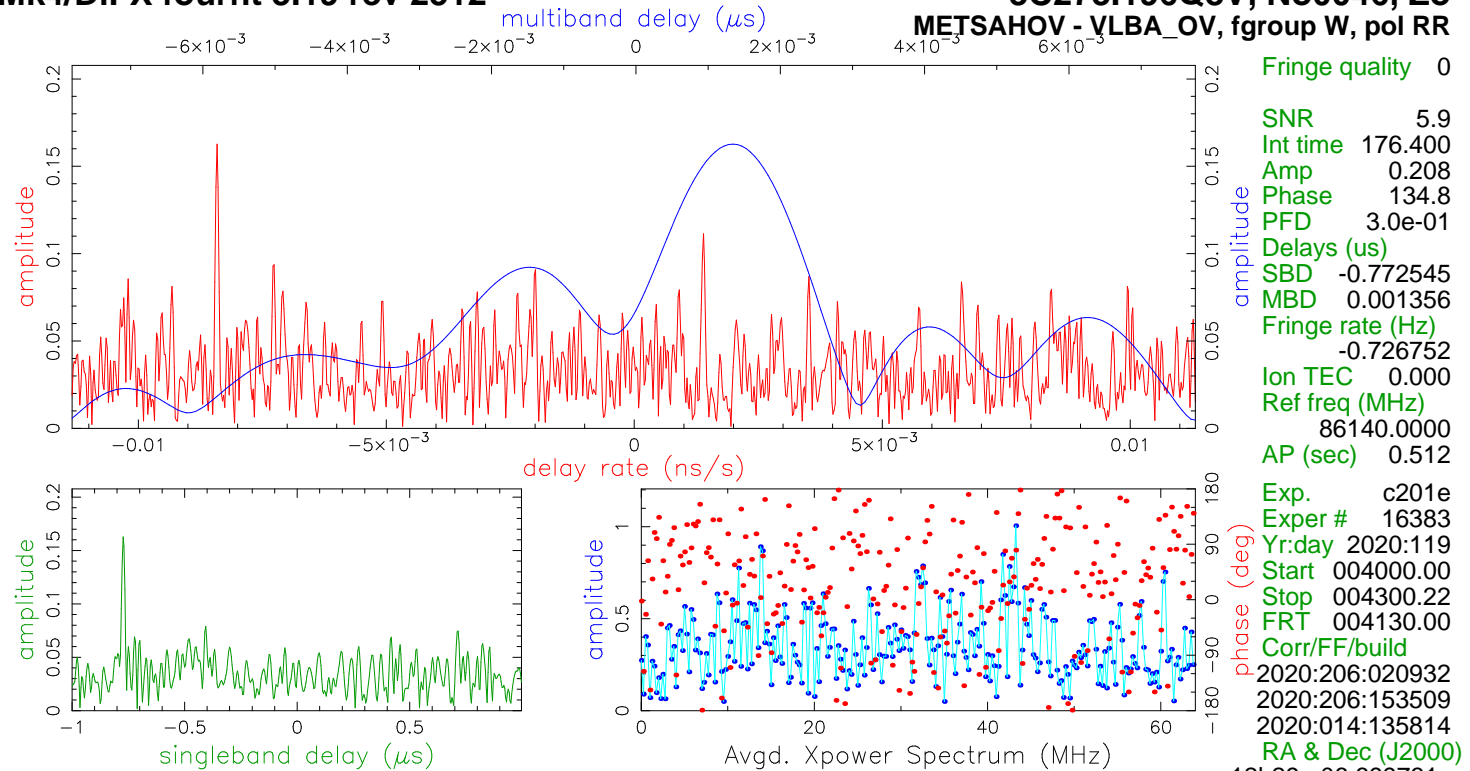
	RMS	Theor.	Amplitude	0.193 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	48.5	48.0	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	67.3	83.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	47.4	28.9	Inc. seg. avg.	0.179	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	59.5	50.5	Inc. frq. avg.	0.203	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Z: az 247.3 el 14.6 pa 27.3 o: az 94.9 el 9.6 pa -52.5 u,v (fr/asec) 10916.420 2304.952 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zo..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zo.W.226.196Q8V

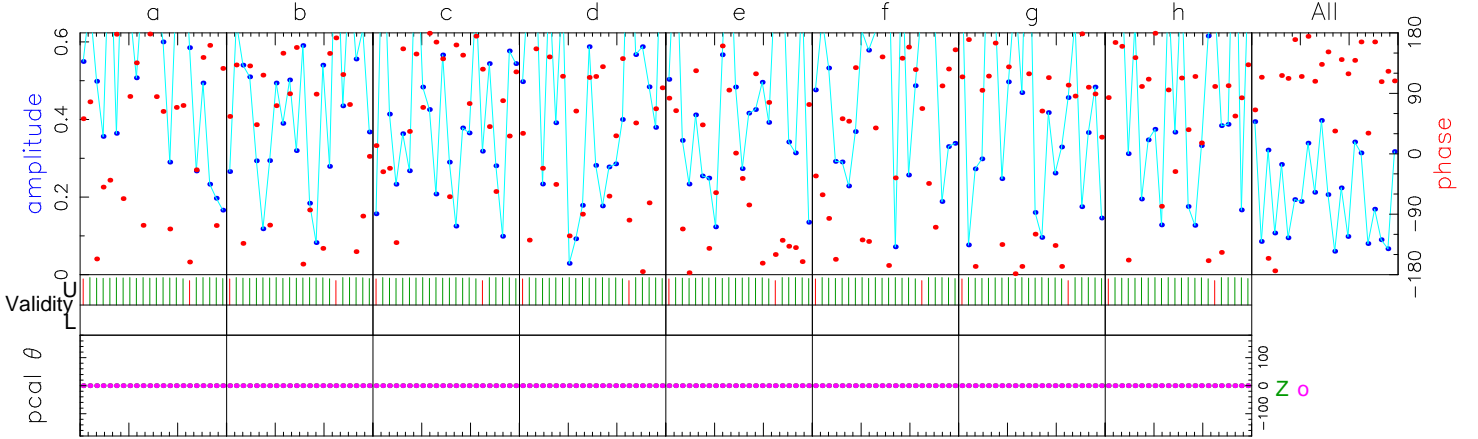
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zo
 METSAHOV - VLBA_OV, fgroup W, pol RR



Fringe quality 0
 SNR 5.9
 Int time 176.400
 Amp 0.208
 Phase 134.8
 PFD 3.0e-01
 Delays (us)
 SBD -0.772545
 MBD 0.001356
 Fringe rate (Hz)
 -0.726752
 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

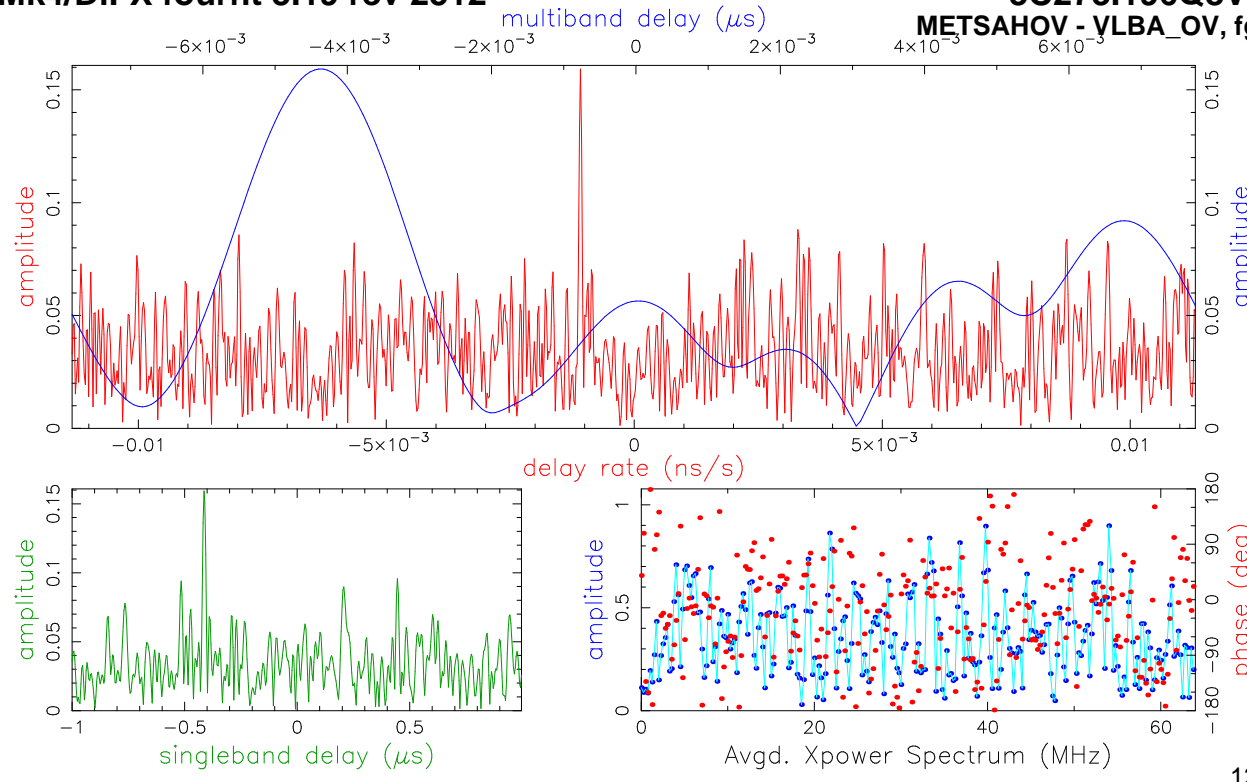


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Z:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Z:0	0:0	0:0	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	1000	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	106.8	152.7	107.1	133.2	163.1	-179.1	133.4	120.1	Phase	134.8
Sband delay (usec)	0.1	0.2	0.2	0.1	0.2	0.1	0.4	0.4	Ampl.	0.2
Phase delay (usec)	473.2	210.5	504.9	344.1	386.2	468.9	59.7	59.0	Sbd box	59.2
Delay rate (us/s)									APs used	
Total phase (deg)			146.2						PC freqs	
									PC freqs	
									PC phase	
									Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Apriori delay (usec)	1.62438836739E+03				1.62516826134E+03				Resid mbdelay (usec)	1.35605E-03 +/- 1.8E-04
Apriori clock (usec)	1.62439571634E+03				-2.0232409E+01				Resid sbdelay (usec)	-7.72545E-01 +/- 1.5E-03
Apriori clockrate (us/s)	1.62516826569E+03				-1.8500001E-07				Resid phdelay (usec)	4.34808E-06 +/- 6.2E-07
Apriori rate (us/s)	-1.90560327567E+00				-1.90559483879E+00				Resid rate (us/s)	-8.43687E-06 +/- 6.0E-09
Apriori accel (us/s/s)					-7.73789008411E-06				Resid phase (deg)	134.8 +/- 19.3
									PCal mode: MANUAL, MANUAL	
									PCal rate: 0.000E+00, 0.000E+00 (us/s)	
									SampCntNorm: enabled	
									nlags: 256	
									t_cohere infinite	
									ion window (TEC)	0.00 0.00

ph/seg (deg) 44.1 45.2 Search (1024X32) 0.208 +/- 0.035 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.8 79.0 Interp. 0.160
 ph/frq (deg) 28.9 27.3 Inc. seg. avg. 0.201
 amp/frq (%) 53.4 47.6 Inc. frq. avg. 0.199
 Z: az 247.3 el 14.6 pa 27.3 o: az 94.9 el 9.6 pa -52.5 u,v (fr/asec) 10916.420 2304.952
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zo..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zo.W.237.196Q8V simultaneous interpolator

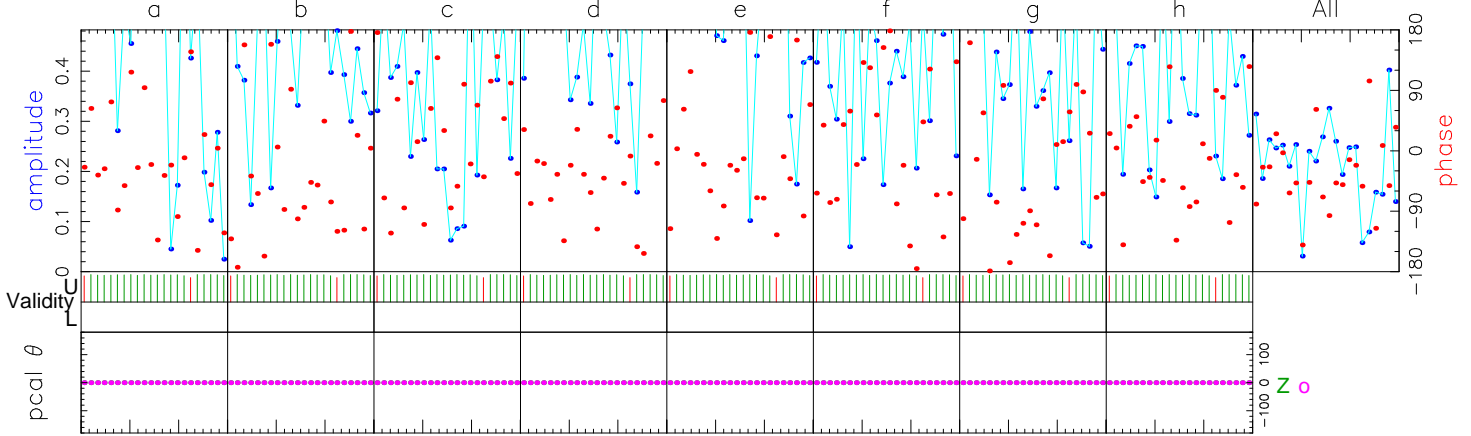
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zo
 METSAHOV - VLBA_OV, fgroup W, pol LR



Fringe quality 0
 SNR 5.8
 Int time 176.400
 Amp 0.161
 Phase -38.2
 PFD 5.2e-01
 Delays (us)
 SBD -0.413109
 MBD -0.004349
 Fringe rate (Hz)
 -0.093567
 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
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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

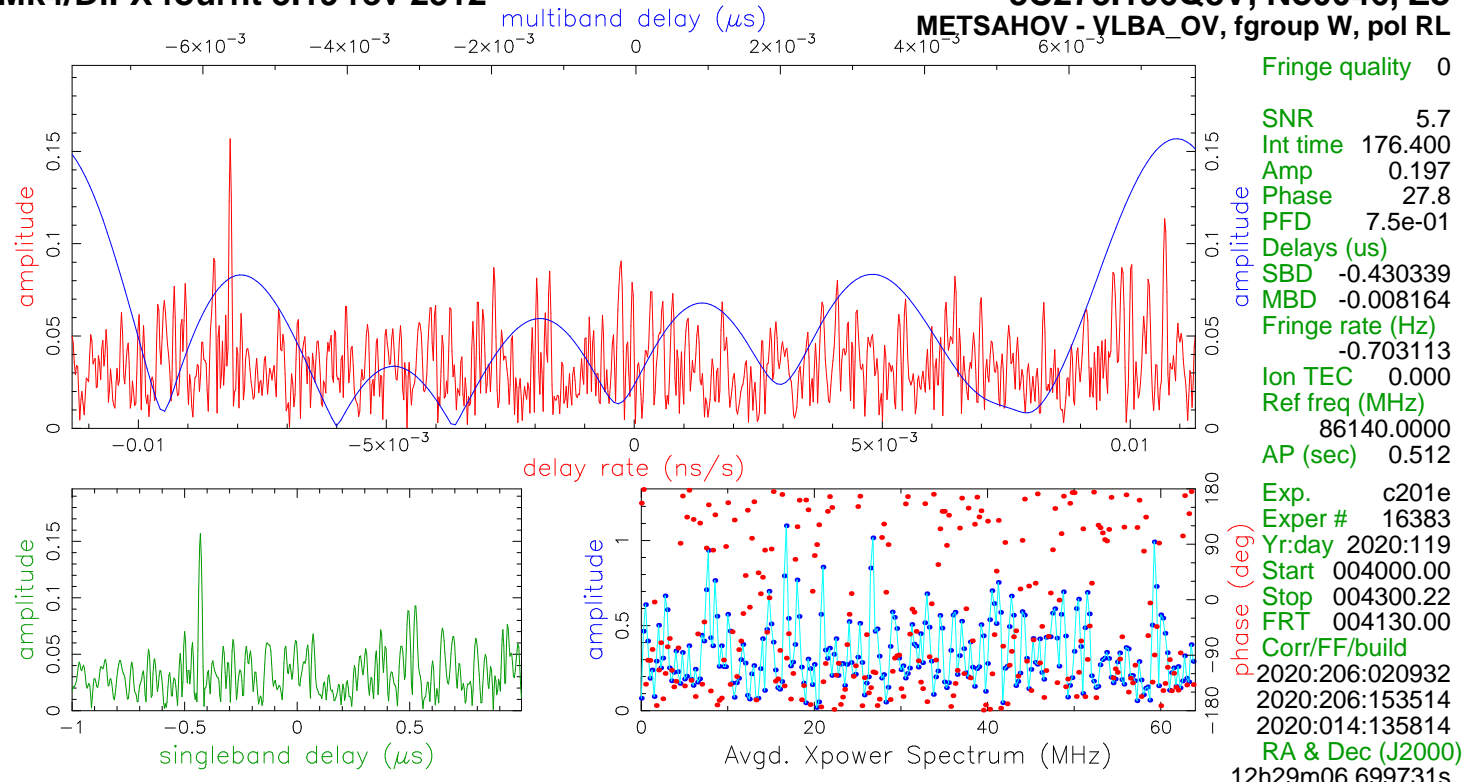
Group delay (usec)(sbd) 1.62475766265E+03 Apriori delay (usec) 1.62516826134E+03 Resid mbdelay (usec) -4.34868E-03 +/- 1.9E-04
 Sband delay (usec) 1.62475515234E+03 Apriori clock (usec) -2.0232409E-01 Resid sbdelay (usec) -4.13109E-01 +/- 1.5E-03
 Phase delay (usec) 1.62516826011E+03 Apriori clockrate (us/s) -1.8500001E-07 Resid phdelay (usec) -1.23236E-06 +/- 6.3E-07
 Delay rate (us/s) -1.90559592501E+00 Apriori rate (us/s) -1.90559483879E+00 Resid rate (us/s) -1.08622E-06 +/- 6.1E-09
 Total phase (deg) -26.8 Apriori accel (us/s/s) -7.73789008411E-06 Resid phase (deg) -38.2 +/- 19.7

RMS Theor. Amplitude 0.161 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 55.9 46.2 Search (1024X32) 0.157 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.9 80.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 36.8 27.8 Inc. seg. avg. 0.164 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 53.9 48.6 Inc. frq. avg. 0.159 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

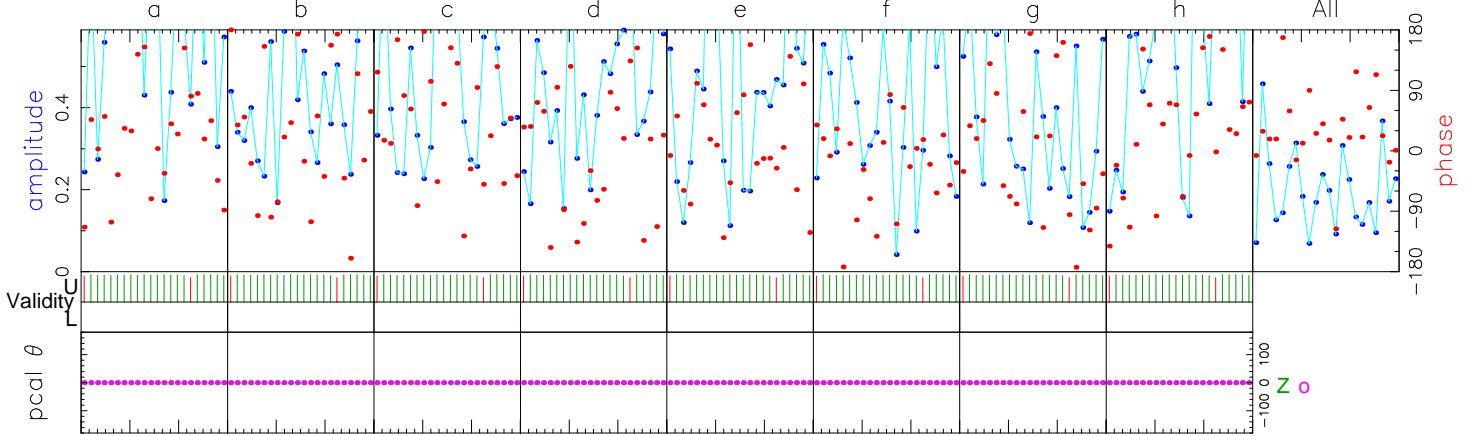
Z: az 247.3 el 14.6 pa 27.3 o: az 94.9 el 9.6 pa -52.5 u,v (fr/asec) 10916.420 2304.952 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zo..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zo.W.258.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, Zo
 METSAHOV - VLBA_OV, 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
	27.3	17.7	43.3	72.6	20.6	-9.2	0.3	57.6	Phase	27.8
	0.4	0.1	0.2	0.1	0.3	0.3	0.1	0.3	Ampl.	0.2
	423.2	287.1	469.9	173.5	443.1	499.5	390.2	253.8	Sbd box	146.8
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	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.62473822203E+03		Apriori delay (usec)		1.62516826134E+03		Resid mbdelay (usec)		-8.16431E-03	+/- 1.9E-04
Sband delay (usec)	1.62473792184E+03		Apriori clock (usec)		-2.0232409E+01		Resid sbdelay (usec)		-4.30339E-01	+/- 1.5E-03
Phase delay (usec)	1.62516826224E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		8.97735E-07	+/- 6.5E-07
Delay rate (us/s)	-1.90560300124E+00		Apriori rate (us/s)		-1.90559483879E+00		Resid rate (us/s)		-8.16245E-06	+/- 6.2E-09
Total phase (deg)	39.2		Apriori accel (us/s/s)		-7.73789008411E-06		Resid phase (deg)		27.8	+/- 20.1

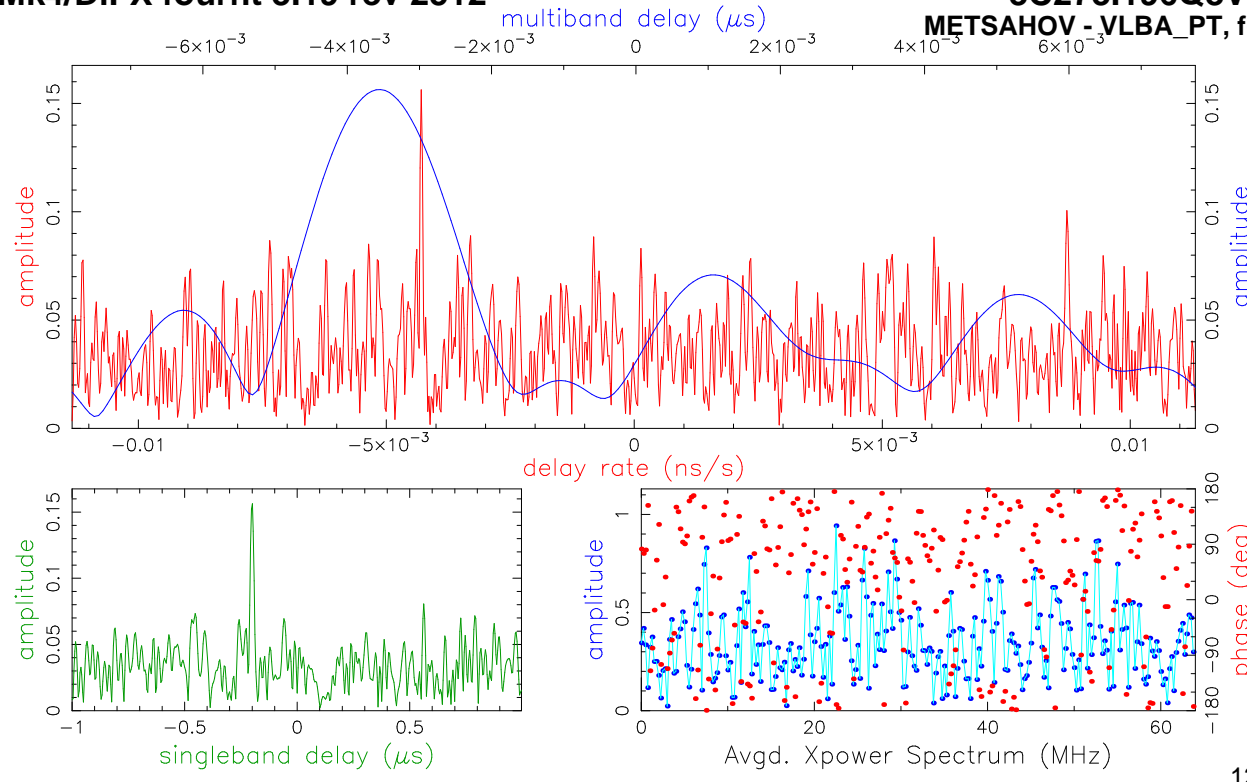
	RMS	Theor.	Amplitude	0.197 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.1	47.0	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	67.9	82.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	30.0	28.4	Inc. seg. avg.	0.188	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	48.7	49.5	Inc. frq. avg.	0.191	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Z: az 247.3 el 14.6 pa 27.3 o: az 94.9 el 9.6 pa -52.5 u,v (fr/asec) 10916.420 2304.952 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zo..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zo.W.262.196Q8V

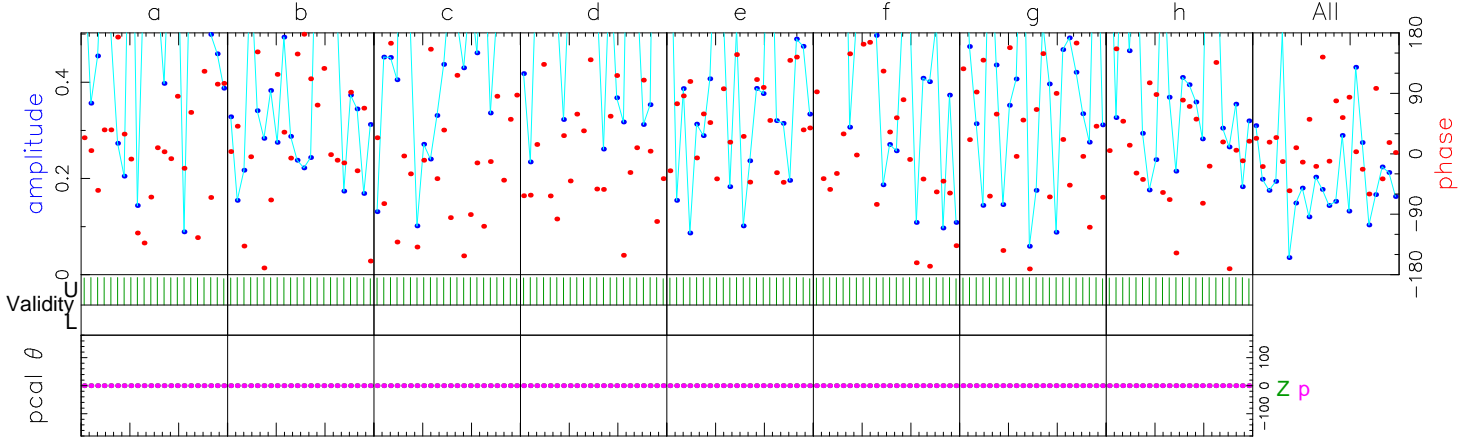
Mk4/DiFX fourfit 3.19 rev 2512

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



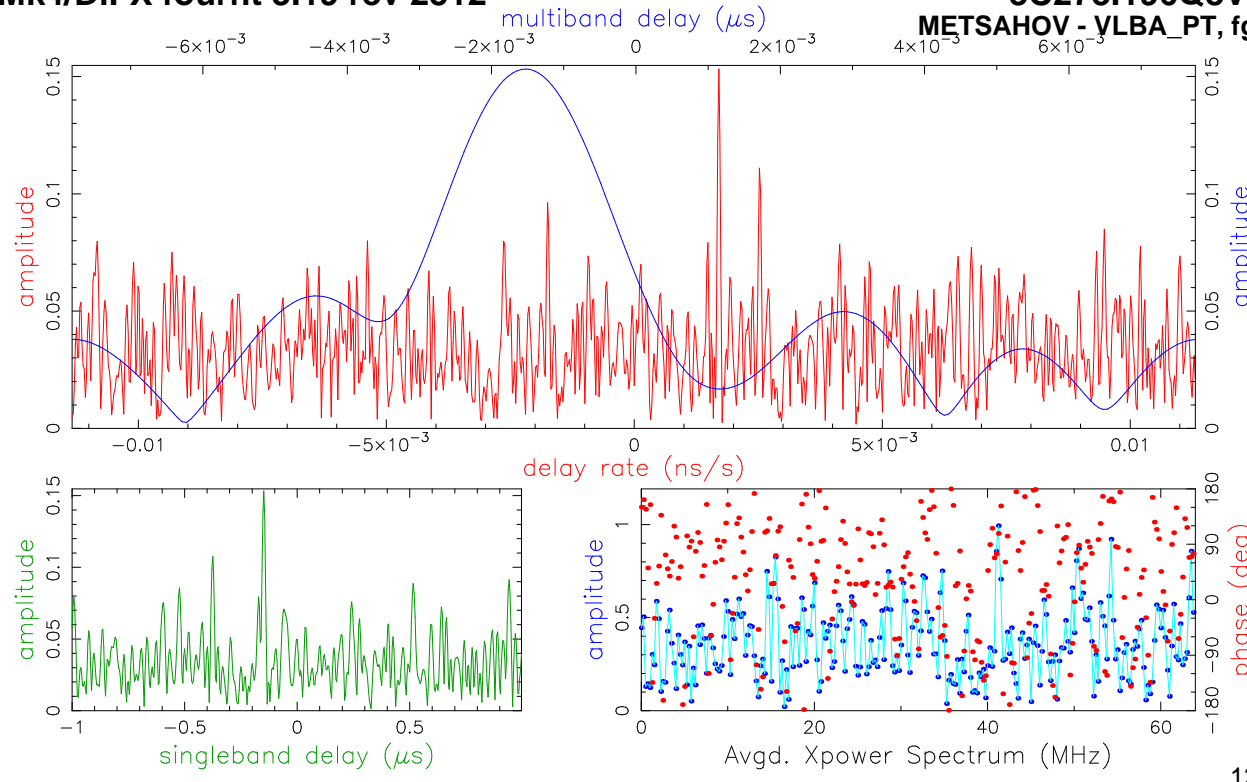
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	Search (1024X32)	0.150	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	30.6	Inc. seg. avg.	0.165	Inc. frq. avg.	0.165	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	24.1	Inc. frq. avg.	0.165			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

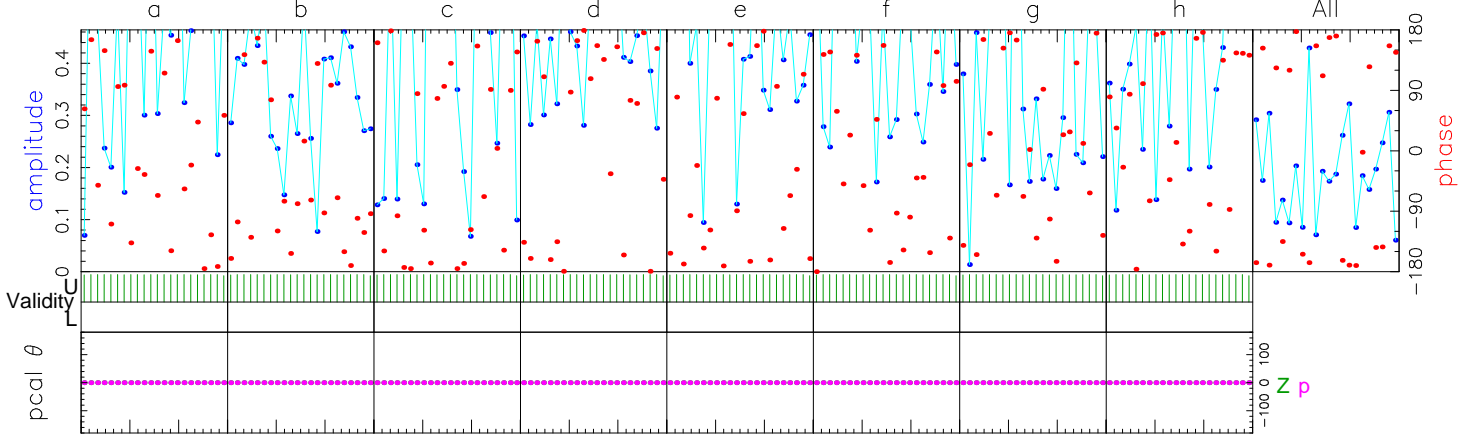
Z: az 247.3 el 14.6 pa 27.3 p: az 100.4 el 18.2 pa -54.4 u,v (fr/asec) 10825.529 2715.584 simultaneous interpolator

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"

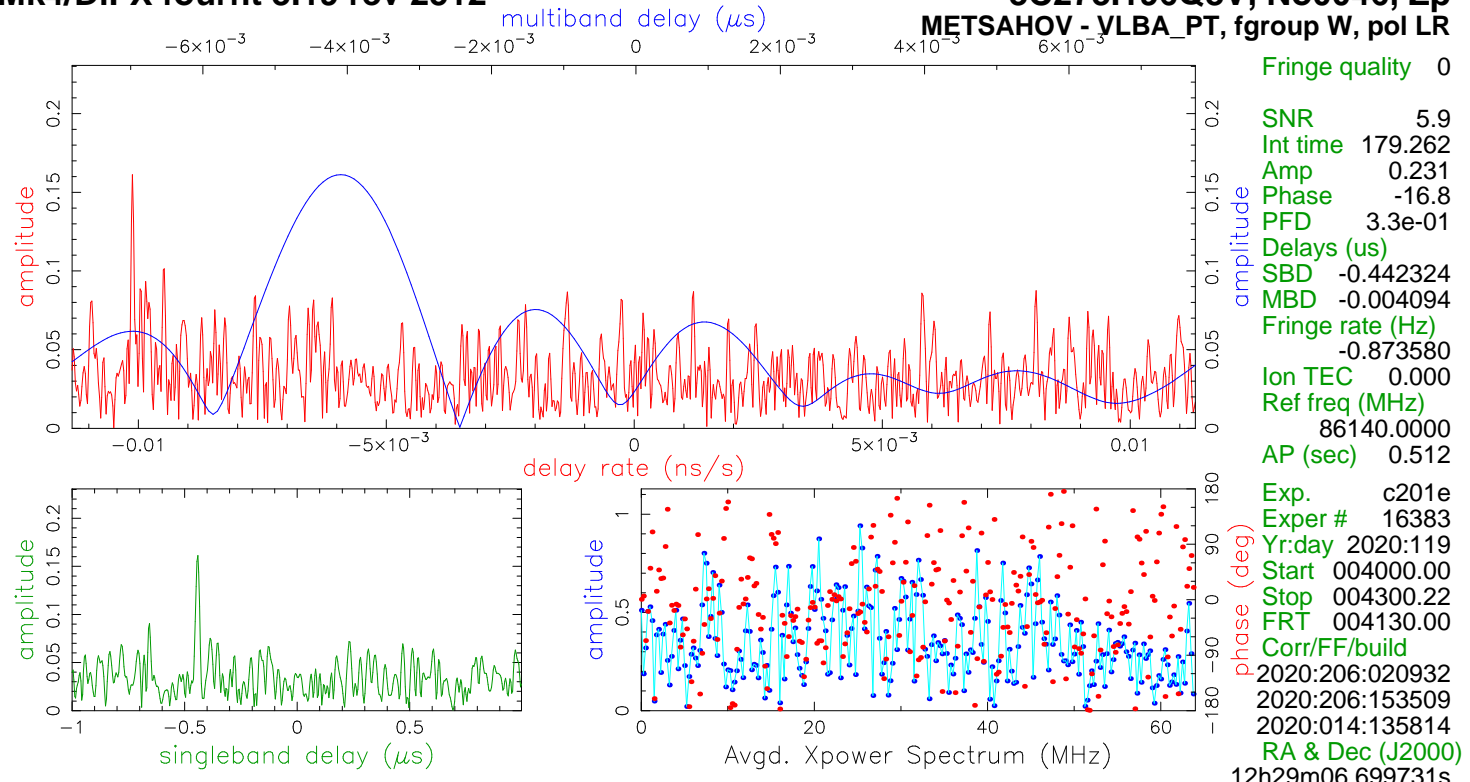
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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	0.2	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	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	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)	106.5		Apriori accel (us/s/s)		8.81522103907E-06		Resid phase (deg)		179.4	+/- 20.4		
	RMS	Theor.	Amplitude	0.155 +/- 0.028		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	50.4	47.9	Search (1024X32)	0.149		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	66.9	83.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	23.1	28.9	Inc. seg. avg.	0.145		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	45.4	50.4	Inc. frq. avg.	0.146		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			

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

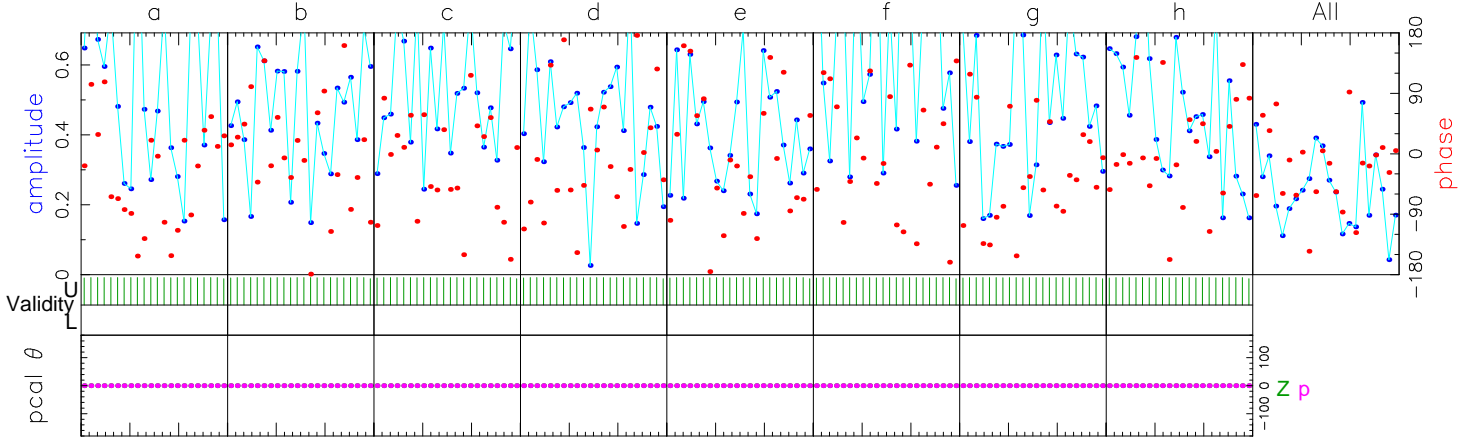
2020:206:020932

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		-16.8
	0.2	0.3	0.3	0.2	0.1	0.2	0.3	0.4		0.2
	227.9	334.8	71.1	484.5	54.8	366.8	469.1	143.1		143.8
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		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

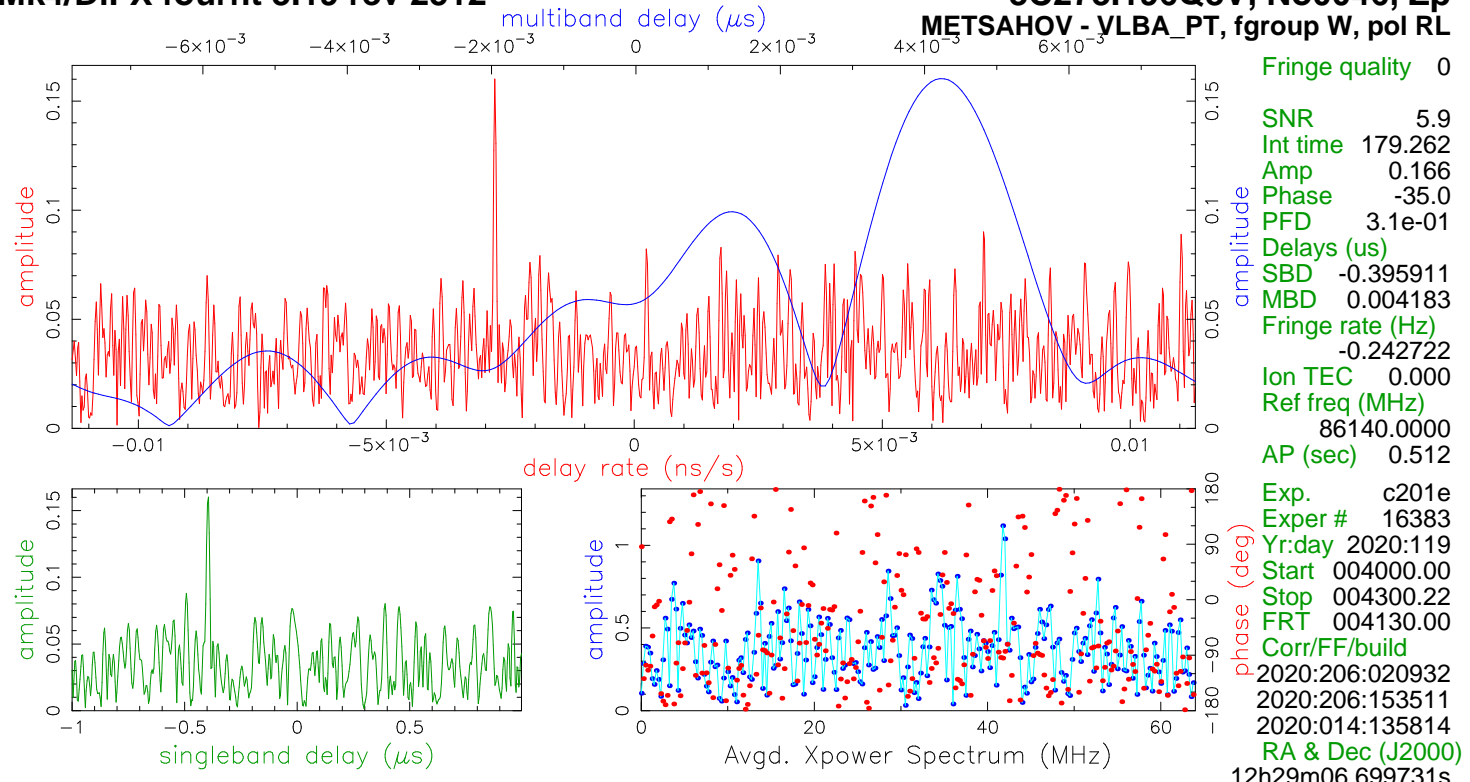
	RMS	Theor.	Amplitude	0.231 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	56.9	45.3	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	85.7	79.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	23.6	27.3	Inc. seg. avg.	0.267	Sample rate(MISamp/s): 128		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

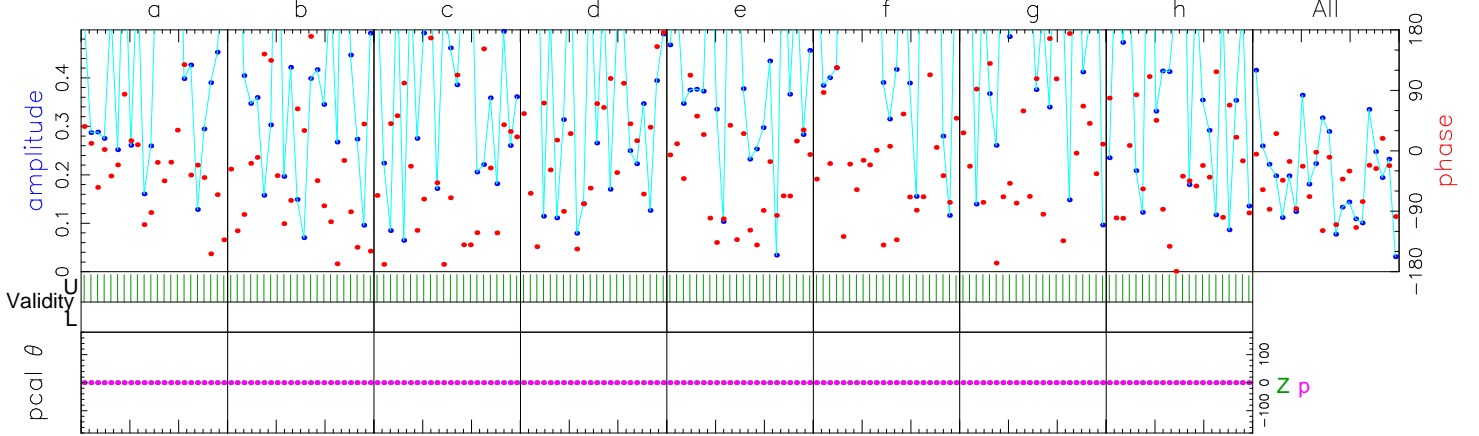
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/Zp..196Q8V Output file: /Exps/c201e/v1/1234/No0046/Zp.W.242.196Q8V

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	
									Chan ids	
									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

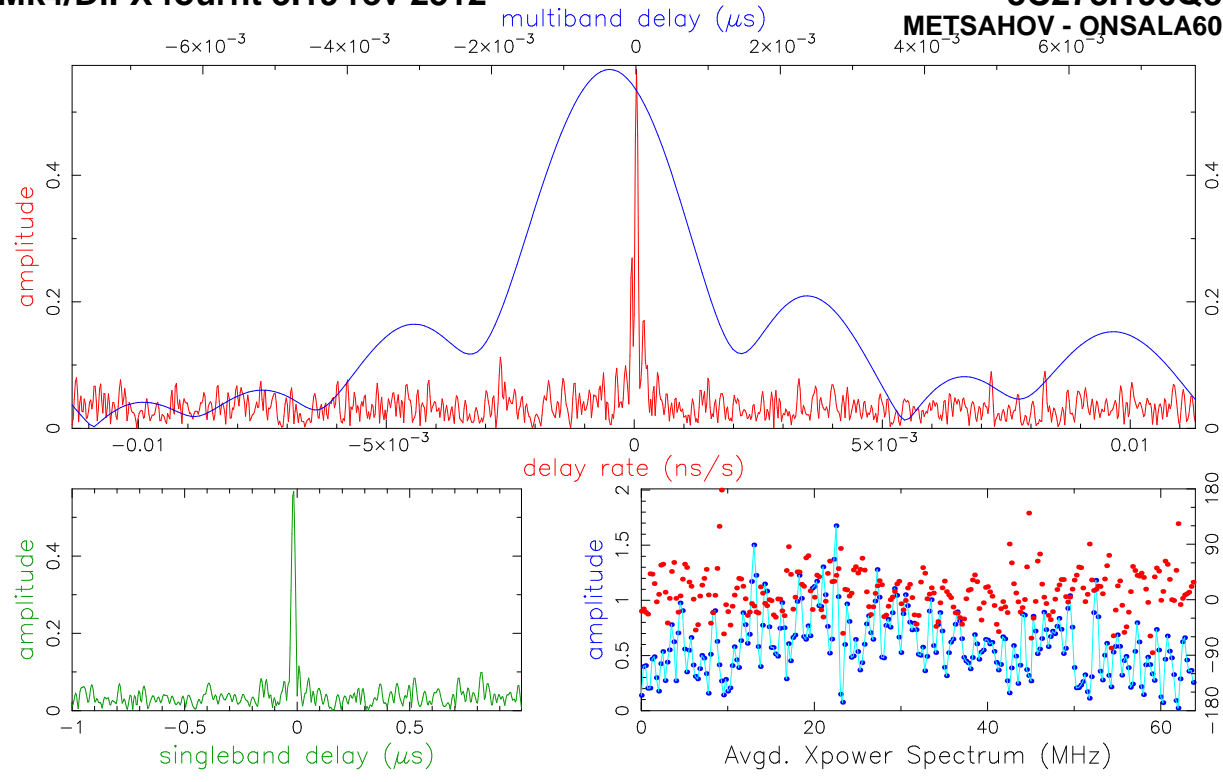
	RMS	Theor.	Amplitude	0.166 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.5	45.3	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	64.8	79.0	Interp.	0.000	Bits/sample: 2x2	Sample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

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

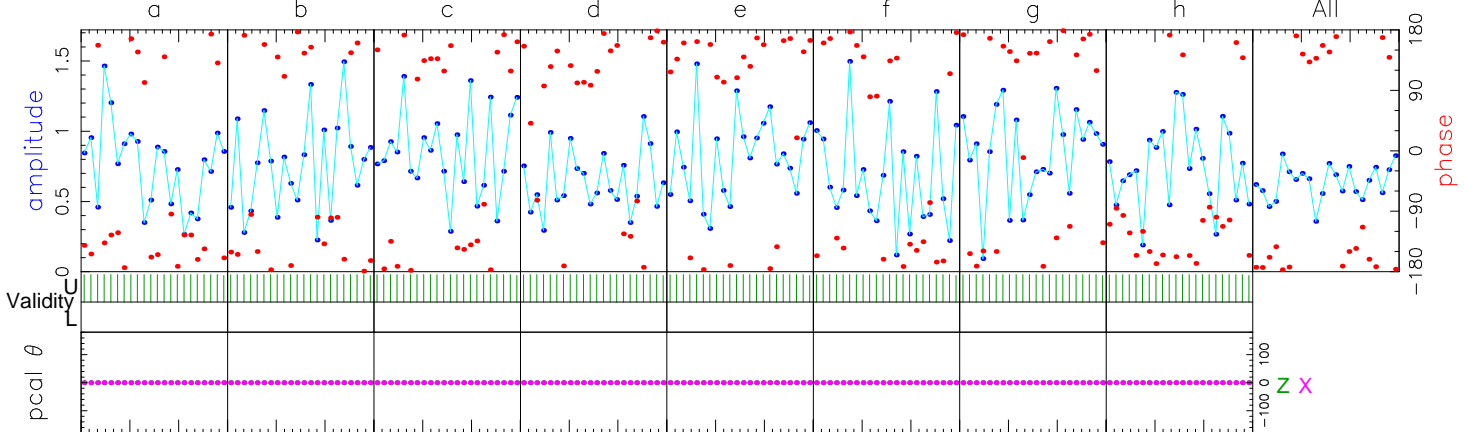
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, ZX
 METSAHOV - ONSALA60, fgroup W, pol LL



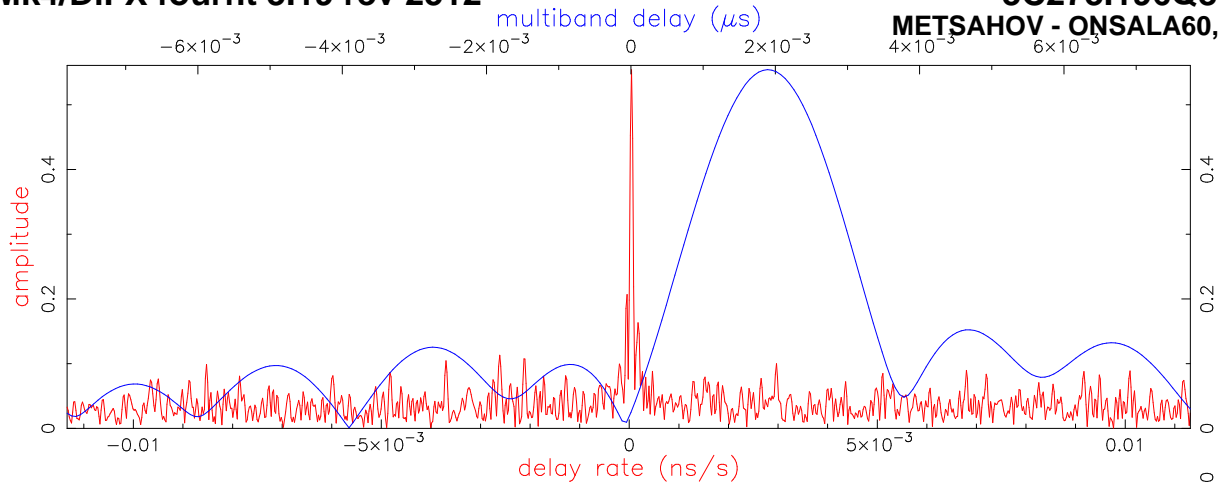
Fringe quality 9
 SNR 21.0
 Int time 179.615
 Amp 0.574
 Phase 178.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.017078
 MBD -0.000399
 Fringe rate (Hz)
 0.003433
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 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

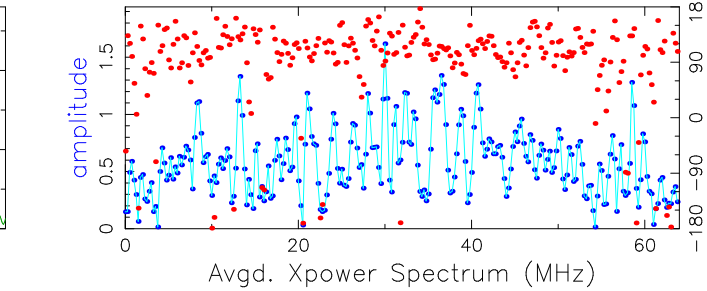
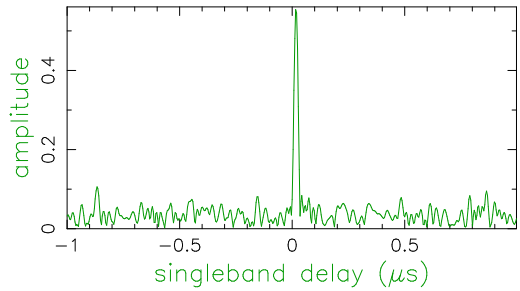


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-164.4	-174.0	172.5	154.8	151.9	179.7	175.2	-145.7	Phase	178.9
	0.6	0.6	0.7	0.4	0.7	0.5	0.7	0.6	Ampl.	0.6
	252.6	252.1	253.0	251.9	253.4	252.7	253.1	253.6	Sbd box	252.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.52215360985E+03		Apriori delay (usec)		-2.52213758564E+03		Resid mbdelay (usec)		-3.99213E-04	+/- 5.2E-05
Sband delay (usec)	-2.52215466389E+03		Apriori clock (usec)		-4.0955044E+01		Resid sbdelay (usec)		-1.70783E-02	+/- 4.1E-04
Phase delay (usec)	-2.52213757987E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		5.76890E-06	+/- 1.8E-07
Delay rate (us/s)	-3.92712169447E-02		Apriori rate (us/s)		-3.92712568011E-02		Resid rate (us/s)		3.98564E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.32907141177E-05		Resid phase (deg)		178.9	+/- 5.4

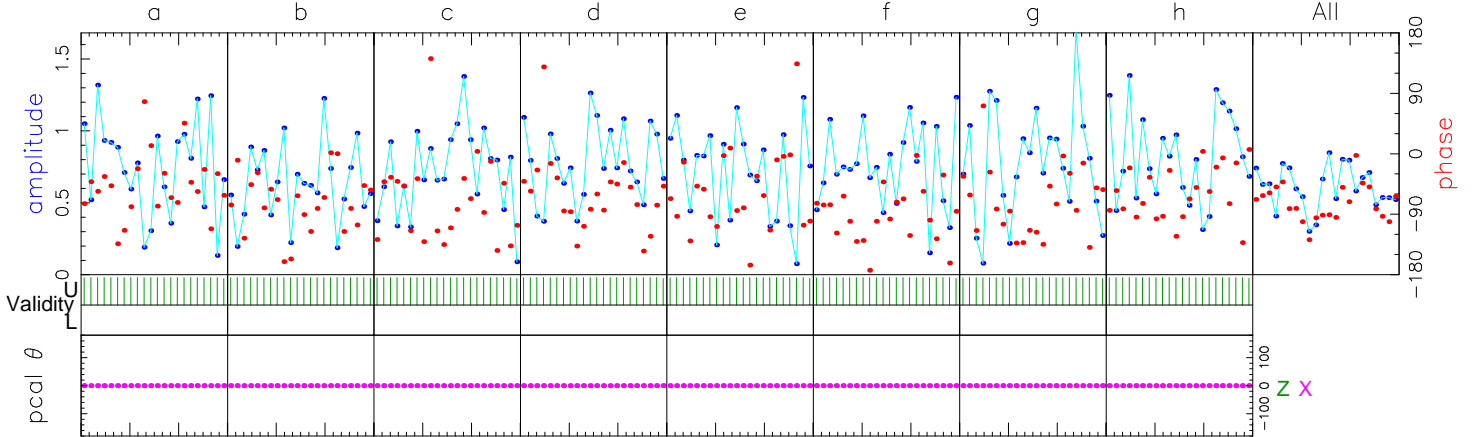
ph/seg (deg) 28.7 12.8 Search (1024X32) 0.559 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 23.3 22.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.2 7.7 Inc. seg. avg. 0.622 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 15.1 13.4 Inc. frq. avg. 0.594 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 X: az 236.5 el 21.6 pa 26.8 u,v (fr/asec) 231.894 261.991 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZX..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZX.W.223.196Q8V



Fringe quality 9
 SNR 20.5
 Int time 179.615
 Amp 0.561
 Phase -70.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.017164
 MBD 0.001919
 Fringe rate (Hz) 0.003673
 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
 2020:206:153508
 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



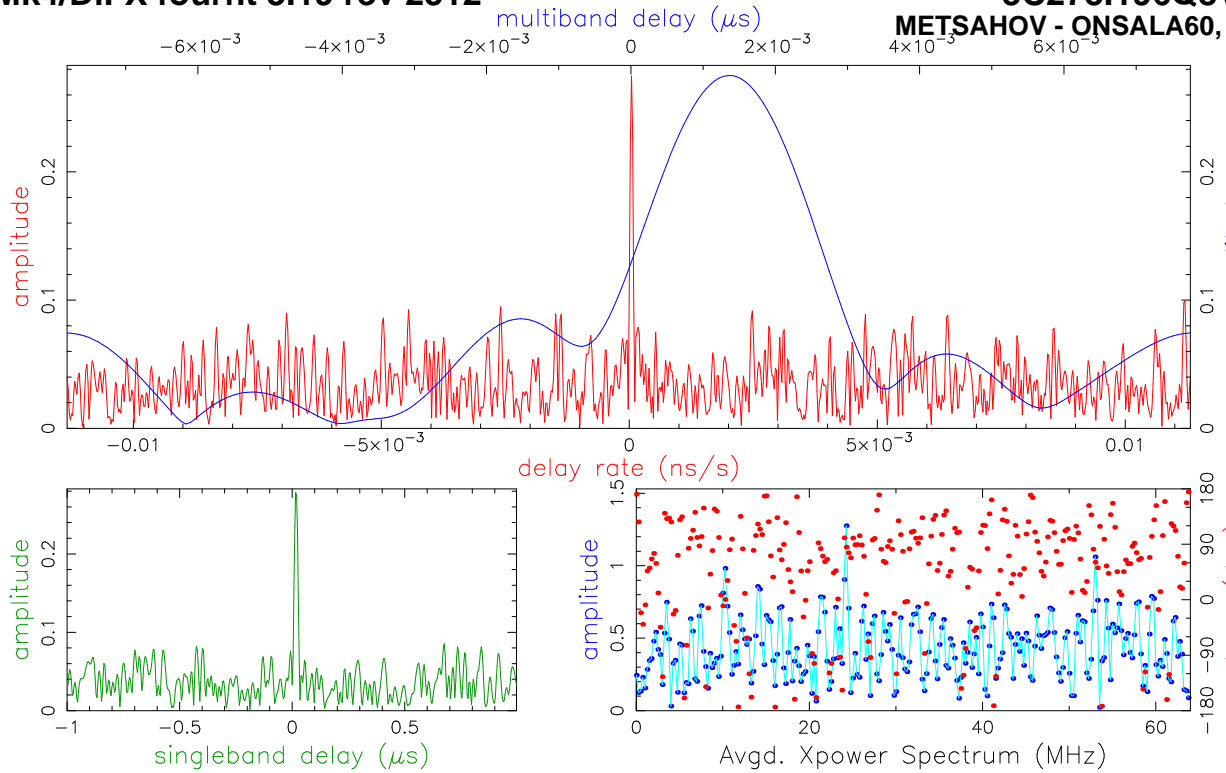
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-58.6	-75.9	-77.6	-63.6	-66.5	-92.1	-77.2	-56.9	Phase	-70.6
	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.6	Ampl.	0.6
	261.1	261.2	261.3	261.5	261.6	261.6	261.4	261.7	Sbd box	261.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.52212004201E+03		Apriori delay (usec)		-2.52213758564E+03		Resid mbdelay (usec)		1.91863E-03	+/- 5.3E-05
Sband delay (usec)	-2.52212042139E+03		Apriori clock (usec)		-4.0955044E+01		Resid sbdelay (usec)		1.71643E-02	+/- 4.2E-04
Phase delay (usec)	-2.52213758792E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-2.27820E-06	+/- 1.8E-07
Delay rate (us/s)	-3.92712141657E-02		Apriori rate (us/s)		-3.92712568011E-02		Resid rate (us/s)		4.26353E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.32907141177E-05		Resid phase (deg)		-70.6	+/- 5.6

ph/seg (deg) RMS Theor. Amplitude 0.561 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 26.8 13.1 Search (1024X32) 0.552 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.3 22.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.8 7.9 Inc. seg. avg. 0.594 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 10.7 13.8 Inc. frq. avg. 0.560 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 X: az 236.5 el 21.6 pa 26.8 u,v (fr/asec) 231.894 261.991 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZX..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZX.W.236.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, ZX
 METSAHOV - ONSALA60, fgroup W, pol LR

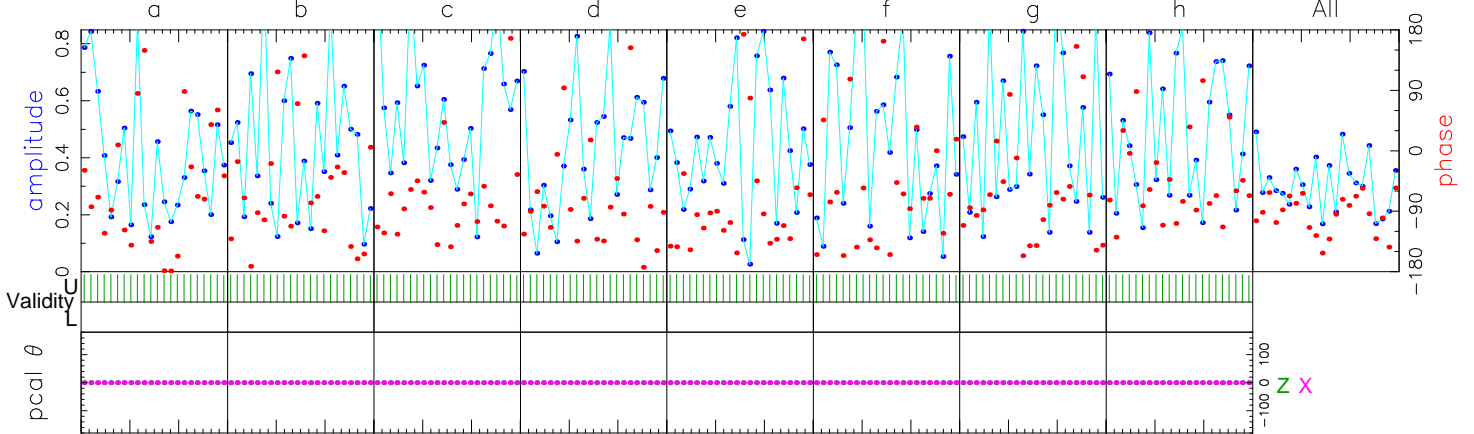


Fringe quality 9

SNR 10.4
 Int time 179.615
 Amp 0.283
 Phase -91.3
 PFD 7.3e-17
 Delays (us)
 SBD 0.017305
 MBD 0.001309
 Fringe rate (Hz) 0.003426
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

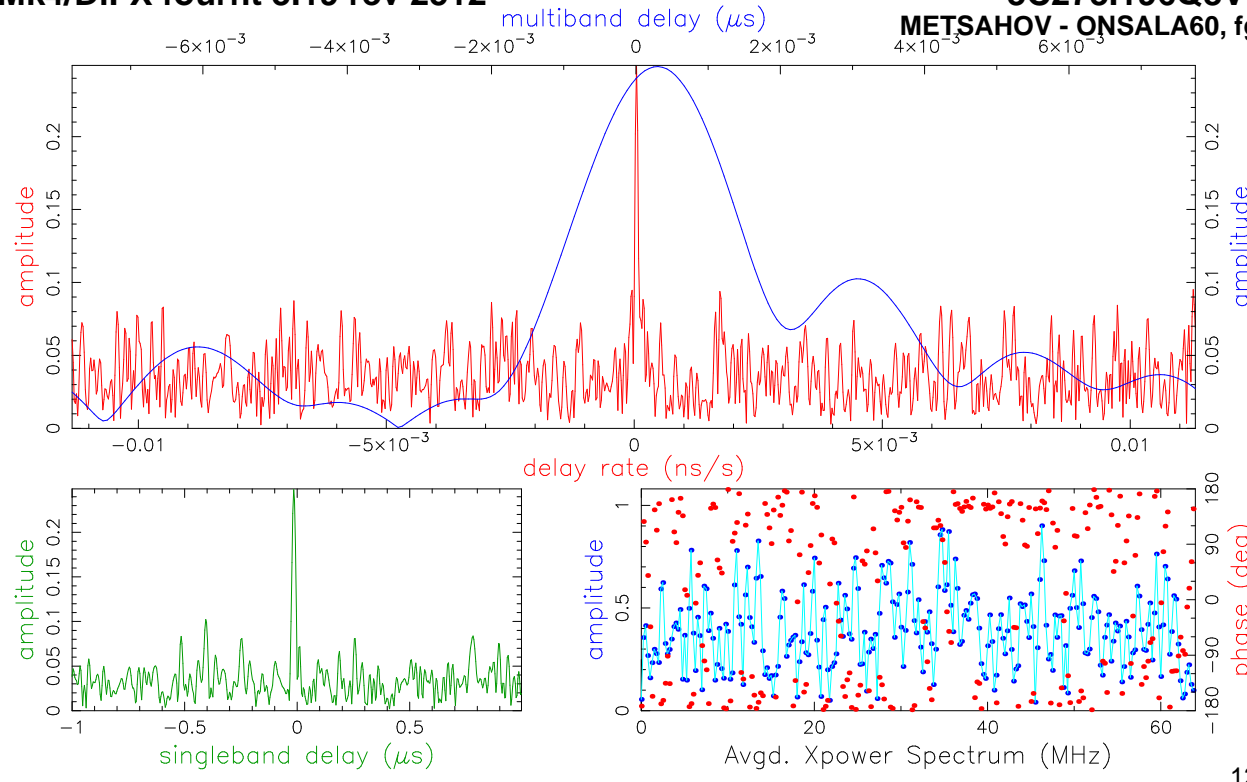
Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004000.00
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build 2020:206:020932
 2020:206:153510
 2020:014:135814
 RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

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
	-66.4	-91.0	-87.0	-114.4	-113.2	-81.2	-97.9	-64.1	Phase	-91.3
	0.1	0.3	0.4	0.3	0.3	0.2	0.3	0.3	Ampl.	0.3
	445.0	261.3	261.1	261.4	262.0	33.2	261.5	261.5	Sbd box	261.4
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.52212065141E+03		Apriori delay (usec)		-2.52213758564E+03		Resid mbdelay (usec)		1.30922E-03	+/- 1.0E-04
Sband delay (usec)	-2.52212028039E+03		Apriori clock (usec)		-4.0955044E+01		Resid sbdelay (usec)		1.73052E-02	+/- 8.3E-04
Phase delay (usec)	-2.52213758858E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-2.94529E-06	+/- 3.6E-07
Delay rate (us/s)	-3.92712170255E-02		Apriori rate (us/s)		-3.92712568011E-02		Resid rate (us/s)		3.97756E-08	+/- 3.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.32907141177E-05		Resid phase (deg)		-91.3	+/- 11.0

ph/seg (deg) 28.4 25.9 Search (1024X32) 0.272 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 33.8 45.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.6 15.6 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.0 27.3 Inc. frq. avg. 0.278 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 X: az 236.5 el 21.6 pa 26.8 u,v (fr/asec) 231.894 261.991 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZX..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZX.W.247.196Q8V

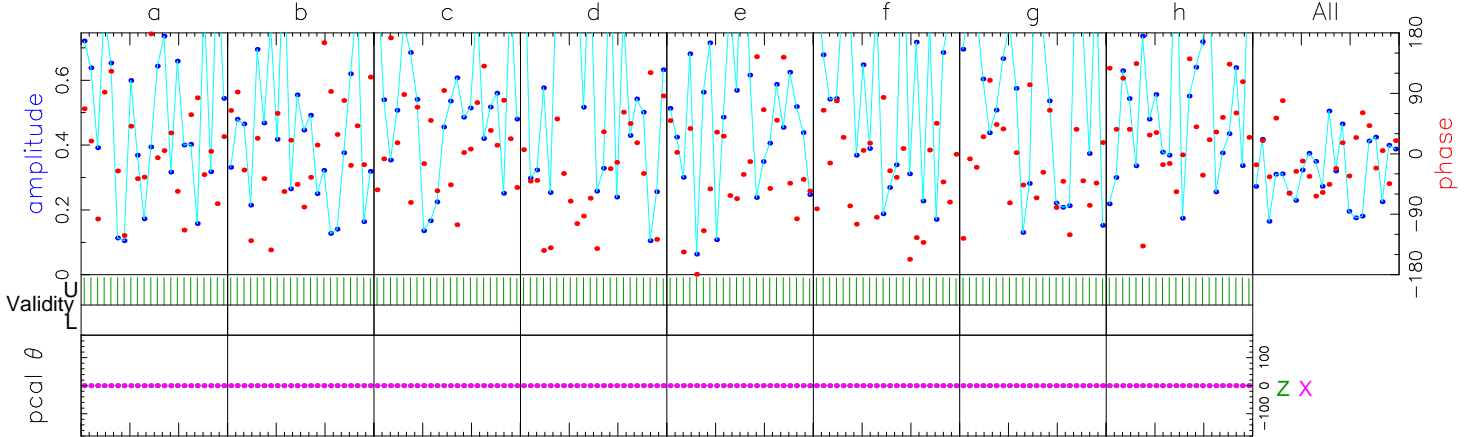


Fringe quality 9

SNR 9.1
 Int time 179.615
 Amp 0.249
 Phase -8.9
 PFD 1.5e-11
 Delays (us)
 SBD -0.014826
 MBD 0.000314
 Fringe rate (Hz) 0.003610
 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"

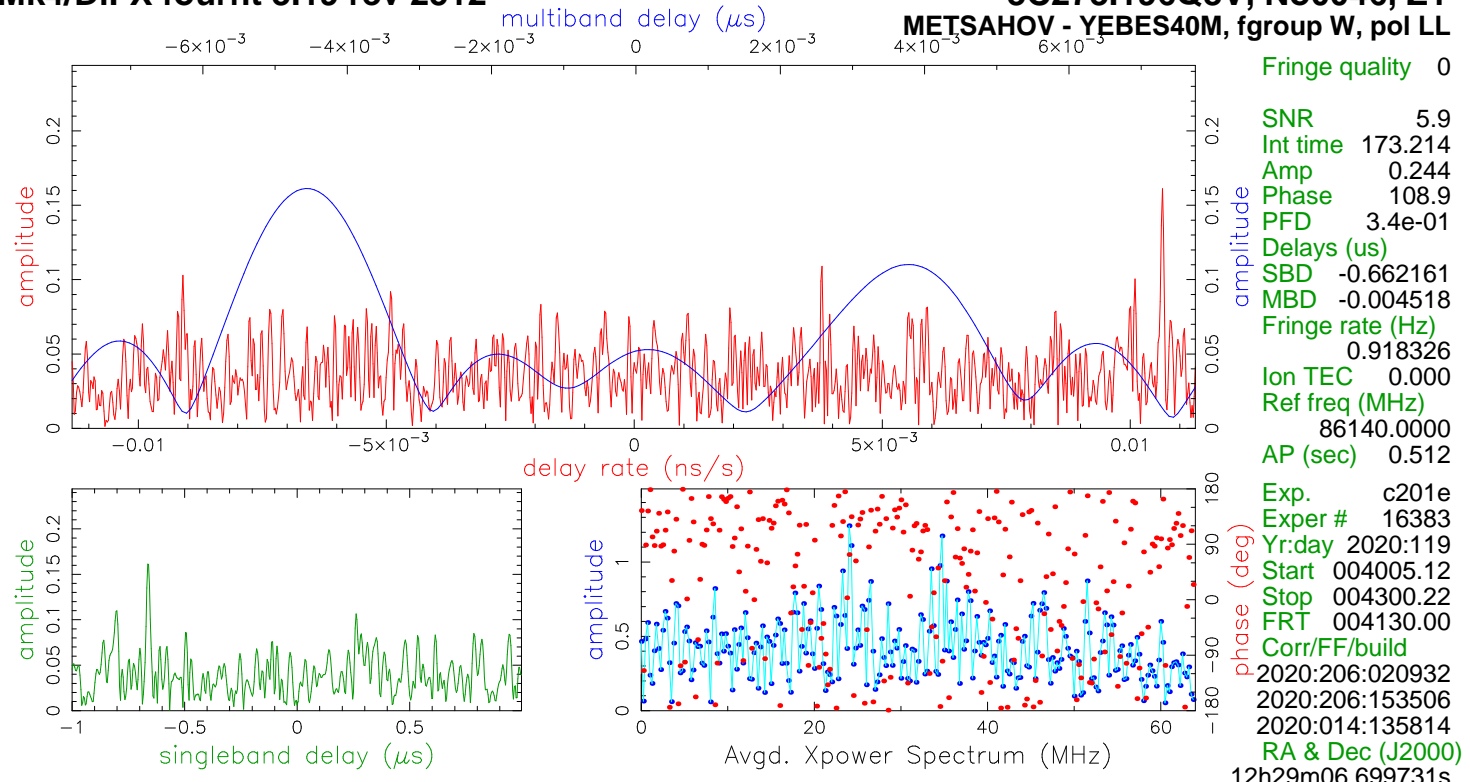
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



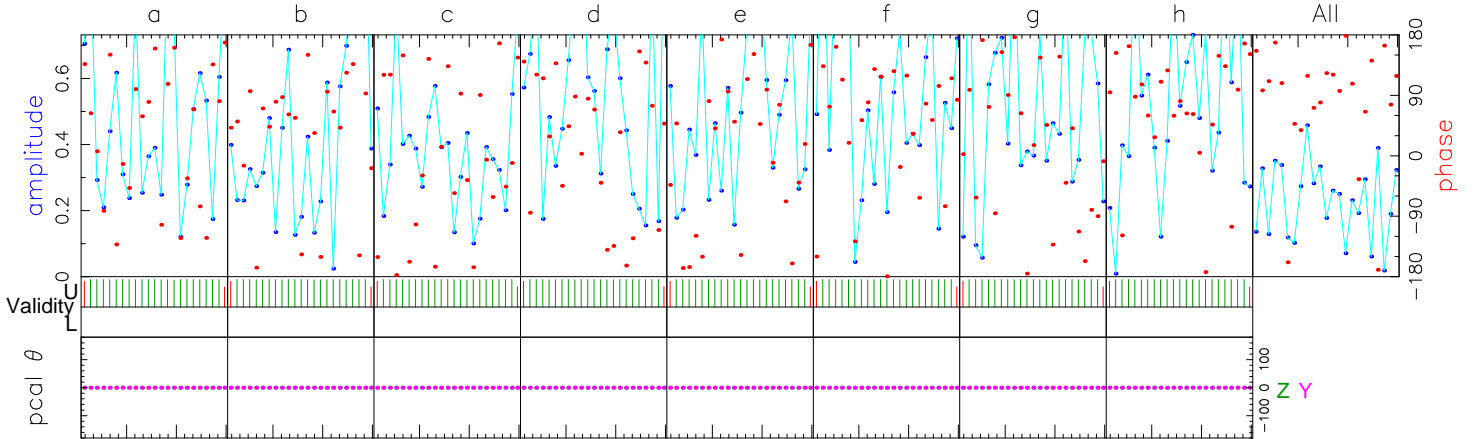
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	4.5	-3.5	13.4	-26.3	-28.2	-27.7	-19.0	33.4	Phase	-8.9		
	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3		
	168.0	153.0	397.6	253.9	253.7	252.7	253.9	491.9	Sbd box	253.2		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
Z:X	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			
X	1000	1000	1000	1000	1000	1000	1000	1000				
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Tracks			
Group delay (usec)(sbd)	-2.52215289620E+03		Apriori delay (usec)		-2.52213758564E+03		Resid mbdelay (usec)		3.14443E-04	+/- 1.2E-04		
Sband delay (usec)	-2.52215241164E+03		Apriori clock (usec)		-4.0955044E+01		Resid sbdelay (usec)		-1.48260E-02	+/- 9.4E-04		
Phase delay (usec)	-2.52213758593E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-2.86434E-07	+/- 4.1E-07		
Delay rate (us/s)	-3.92712148870E-02		Apriori rate (us/s)		-3.92712568011E-02		Resid rate (us/s)		4.19140E-08	+/- 3.9E-09		
Total phase (deg)			Apriori accel (us/s/s)		1.32907141177E-05		Resid phase (deg)		-8.9	+/- 12.6		
	RMS	Theor.	Amplitude	0.249 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	40.2	29.5	Search (1024X32)	0.244		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	47.5	51.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	24.6	17.8	Inc. seg. avg.	0.280		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	20.4	31.0	Inc. frq. avg.	0.254		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	X: az 236.5 el 21.6 pa 26.8		u, v (fr/asec) 231.894 261.991						simultaneous interpolator			

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, ZY
 METSAHOV - YEBES40M, fgroup W, pol LL



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



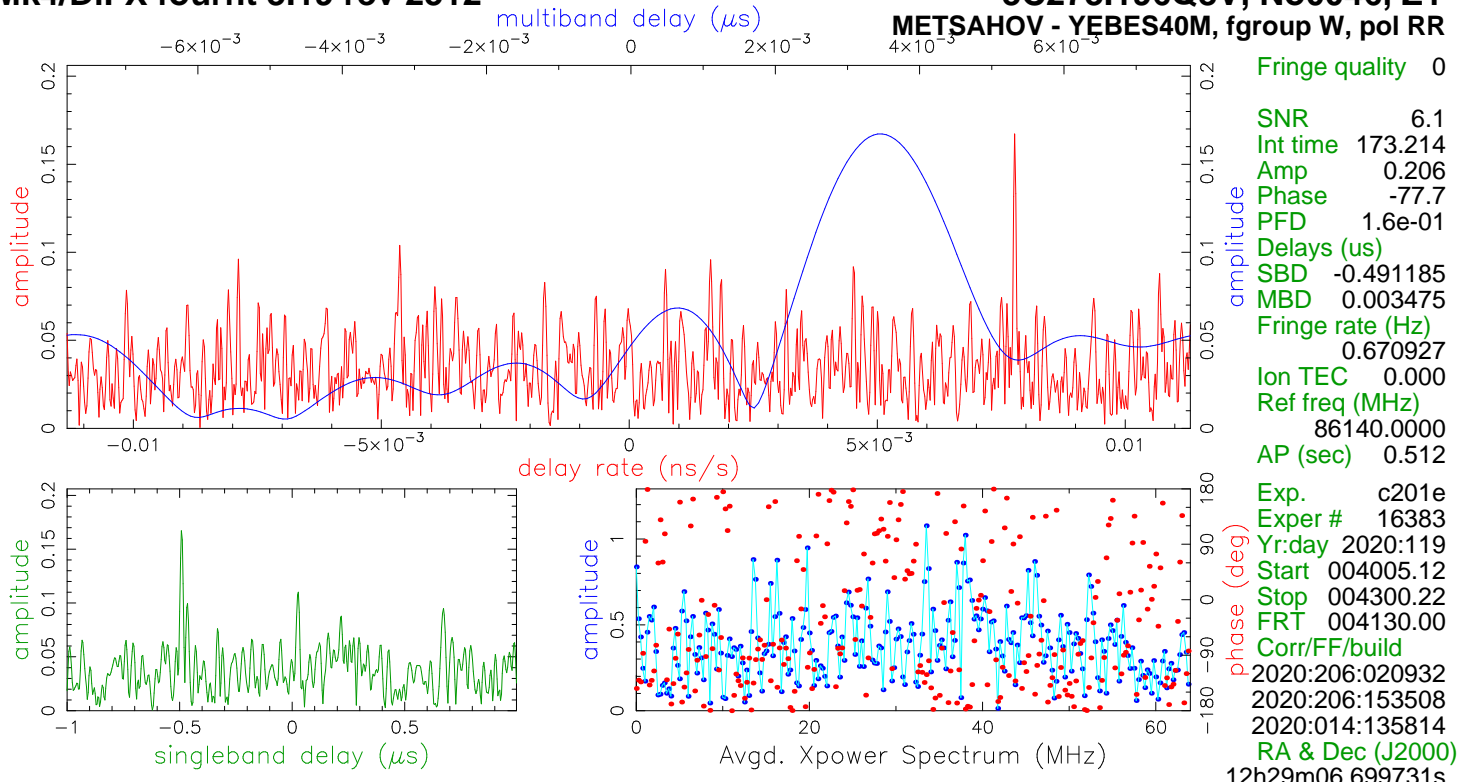
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	121.0	96.2	177.0	75.2	135.5	96.2	175.2	98.1	Phase	108.9
	0.2	0.4	0.1	0.2	0.2	0.4	0.1	0.5	Ampl.	0.2
	251.0	89.3	130.1	474.2	154.9	457.1	341.5	86.6	Sbd box	87.5
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-8.22420137695E+03	Apriori delay (usec)	-8.22354060871E+03	Resid mbdelay (usec)	-4.51824E-03	+/-	1.8E-04
Sband delay (usec)	-8.22420276921E+03	Apriori clock (usec)	-1.2106791E+01	Resid sbdelay (usec)	-6.62161E-01	+/-	1.5E-03
Phase delay (usec)	-8.22354060520E+03	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	3.51105E-06	+/-	6.2E-07
Delay rate (us/s)	5.13154701527E-03	Apriori rate (us/s)	5.12088616220E-03	Resid rate (us/s)	1.06609E-05	+/-	6.2E-09
Total phase (deg)	96.7	Apriori accel (us/s/s)	4.44978188773E-05	Resid phase (deg)	108.9	+/-	19.4

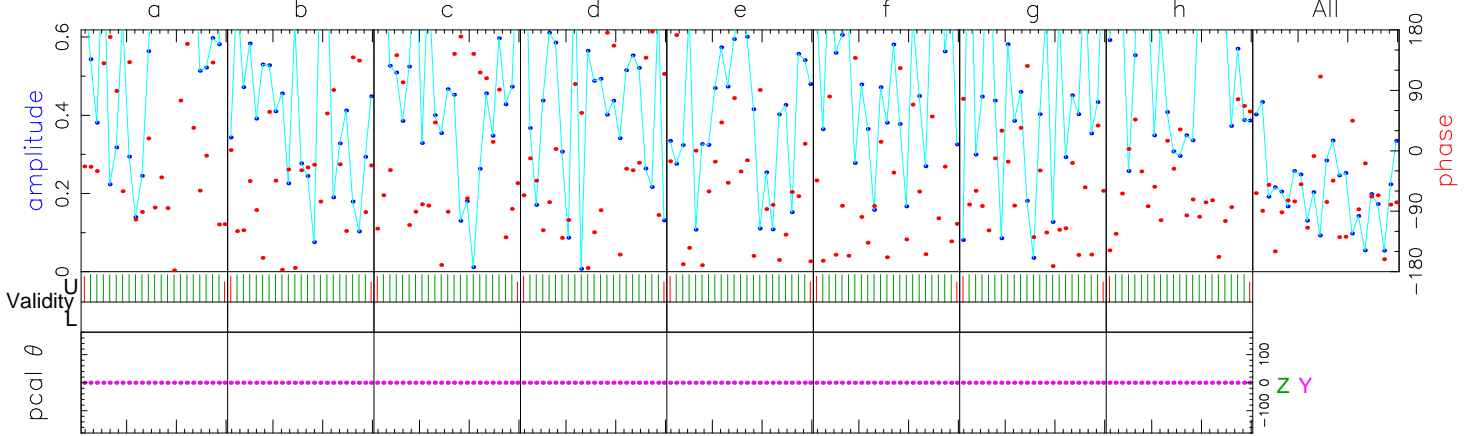
ph/seg (deg)	53.7	Theor.	46.4	Amplitude	0.244 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	79.8	Search (1024X32)	0.154	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	43.7	Inc. seg. avg.	0.257	Inc. frq. avg.	0.244	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	48.9	Inc. frq. avg.	0.244			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 247.3 el 14.6 pa 27.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -6.081 2053.264 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZY.W.220.196Q8V



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



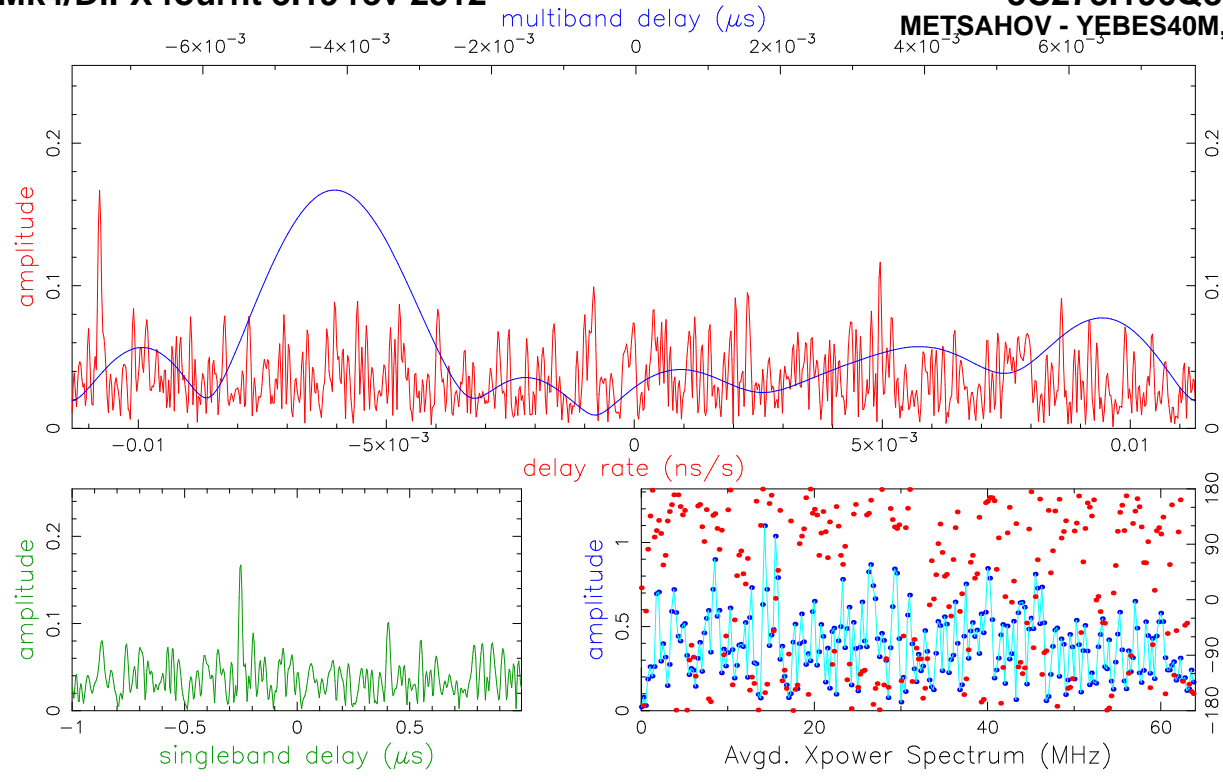
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-50.8	-75.0	-94.5	-88.3	-64.7	-100.5	-74.4	-72.7	Phase	-77.7
	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.4	Ampl.	0.2
	453.6	391.3	310.2	424.6	211.0	406.7	199.2	136.3	Sbd box	131.3
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-8.22403713420E+03					-8.22354060871E+03			Resid mbdelay (usec)	3.47451E-03 +/- 1.8E-04
Sband delay (usec)	-8.22403179421E+03					-1.2106791E+01			Resid sbdelay (usec)	-4.91185E-01 +/- 1.4E-03
Phase delay (usec)	-8.22354061121E+03					-2.0400000E-07			Resid phdelay (usec)	-2.50420E-06 +/- 6.1E-07
Delay rate (us/s)	5.12867496341E-03					5.12088616220E-03			Resid rate (us/s)	7.78880E-06 +/- 6.0E-09
Total phase (deg)			-89.9			4.44978188773E-05			Resid phase (deg)	-77.7 +/- 18.9
	RMS	Theor.	Amplitude	0.206 +/- 0.034					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	57.5	45.3	Search (1024X32)	0.163					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	63.5	79.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	17.5	26.7	Inc. seg. avg.	0.199					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	38.6	46.7	Inc. frq. avg.	0.190					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Z: az 247.3 el 14.6 pa 27.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -6.081 2053.264 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZY.W.230.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, ZY
 METSAHOV - YEBES40M, fgroup W, pol LR

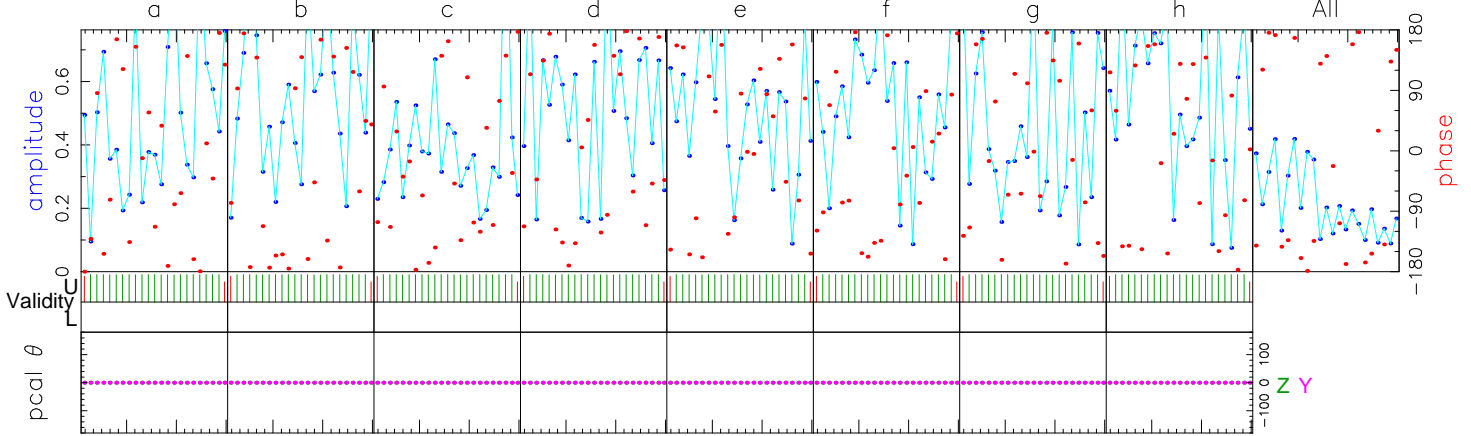


Fringe quality 0

SNR 6.1
 Int time 173.214
 Amp 0.254
 Phase -172.3
 PFD 1.3e-01
 Delays (us)
 SBD -0.251587
 MBD -0.004232
 Fringe rate (Hz)
 -0.930052
 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 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., 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
	-165.4	172.7	-157.3	-166.4	145.2	-135.0	-146.8	-178.1	Phase	-172.3
	0.2	0.4	0.1	0.4	0.2	0.2	0.1	0.4	Ampl.	0.2
	216.0	192.1	60.4	181.9	277.7	211.4	143.4	498.3	Sbd box	192.6
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-8.22379484045E+03	Apriori delay (usec)	-8.22354060871E+03	Resid mbdelay (usec)	-4.23175E-03	+/-	1.8E-04
Sband delay (usec)	-8.22379219596E+03	Apriori clock (usec)	-1.2106791E+01	Resid sbdelay (usec)	-2.51587E-01	+/-	1.4E-03
Phase delay (usec)	-8.22354061426E+03	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	-5.55553E-06	+/-	6.1E-07
Delay rate (us/s)	5.11008918528E-03	Apriori rate (us/s)	5.12088616220E-03	Resid rate (us/s)	-1.07970E-05	+/-	6.0E-09
Total phase (deg)	-184.5	Apriori accel (us/s/s)	4.44978188773E-05	Resid phase (deg)	-172.3	+/-	18.8

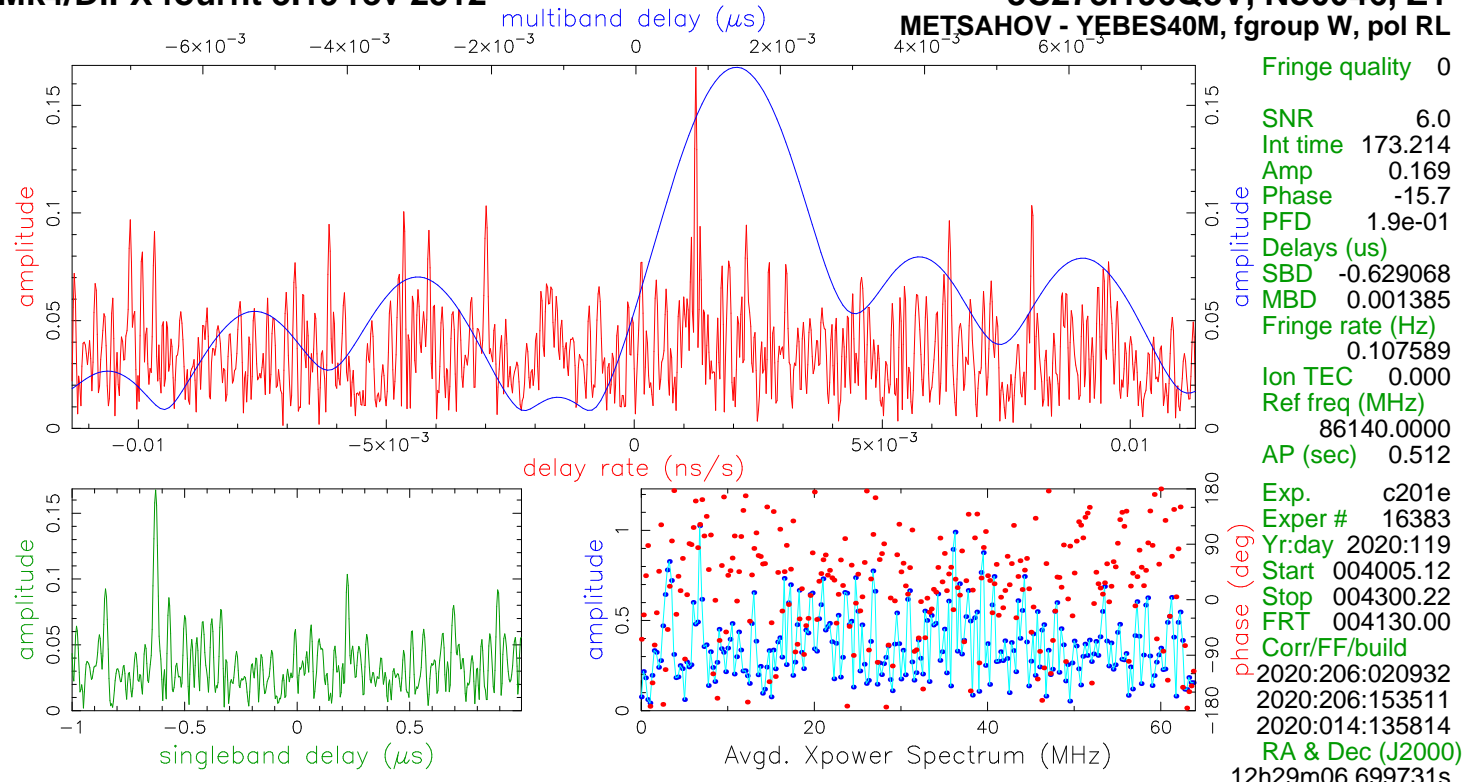
ph/seg (deg)	57.0	Theor.	45.0	Amplitude	0.254 +/- 0.042	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.5		78.6	Search (1024X32)	0.161	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	27.1		26.5	Inc. seg. avg.	0.250	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.1		46.3	Inc. frq. avg.	0.243	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	

Z: az 247.3 el 14.6 pa 27.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -6.081 2053.264 simultaneous interpolator

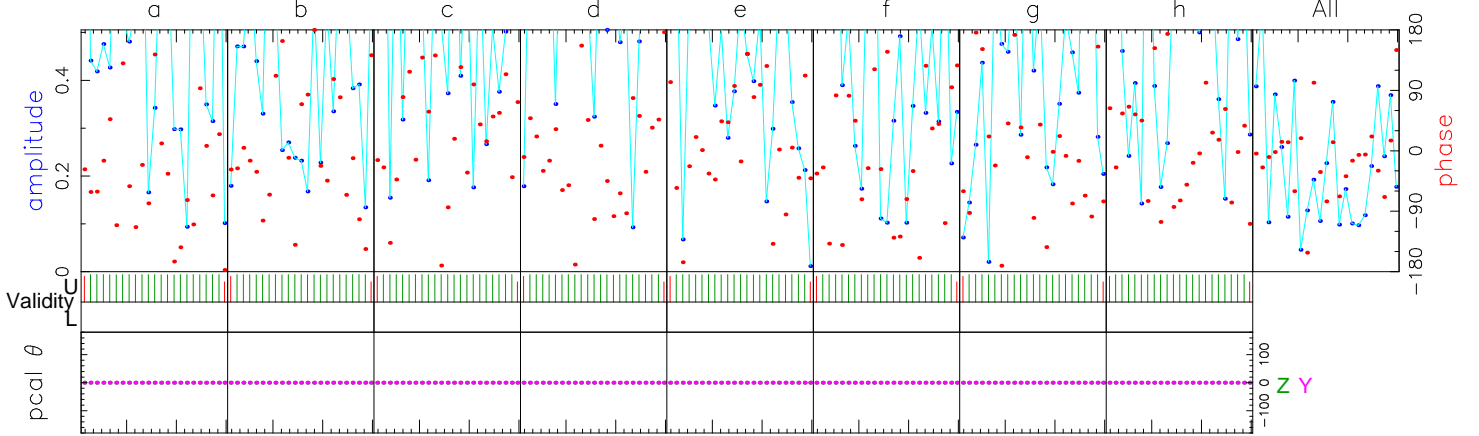
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZY.W.241.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, ZY
METSALHOV - YEBES40M, fgroup W, pol RL



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
	-37.6	-30.5	16.0	-14.9	10.5	62.2	-50.2	-19.5	Phase	-15.7
	0.2	0.1	0.2	0.3	0.2	0.1	0.3	0.3	Ampl.	0.2
	484.4	111.2	436.5	97.0	18.0	91.4	342.5	96.9	Sbd box	96.0
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.22416422327E+03		Apriori delay (usec)		-8.22354060871E+03		Resid mbdelay (usec)		1.38543E-03	+/- 1.8E-04
Sband delay (usec)	-8.22416967696E+03		Apriori clock (usec)		-1.2106791E+01		Resid sbdelay (usec)		-6.29068E-01	+/- 1.4E-03
Phase delay (usec)	-8.22354060921E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-5.05106E-07	+/- 6.1E-07
Delay rate (us/s)	5.12213515939E-03		Apriori rate (us/s)		5.12088616220E-03		Resid rate (us/s)		1.24900E-06	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.44978188773E-05		Resid phase (deg)		-15.7	+/- 19.0

	RMS	Theor.	Amplitude	0.169 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	55.9	45.5	Search (1024X32)	0.160	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	87.5	79.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	40.1	26.9	Inc. seg. avg.	0.174	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	49.1	46.9	Inc. frq. avg.	0.165	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

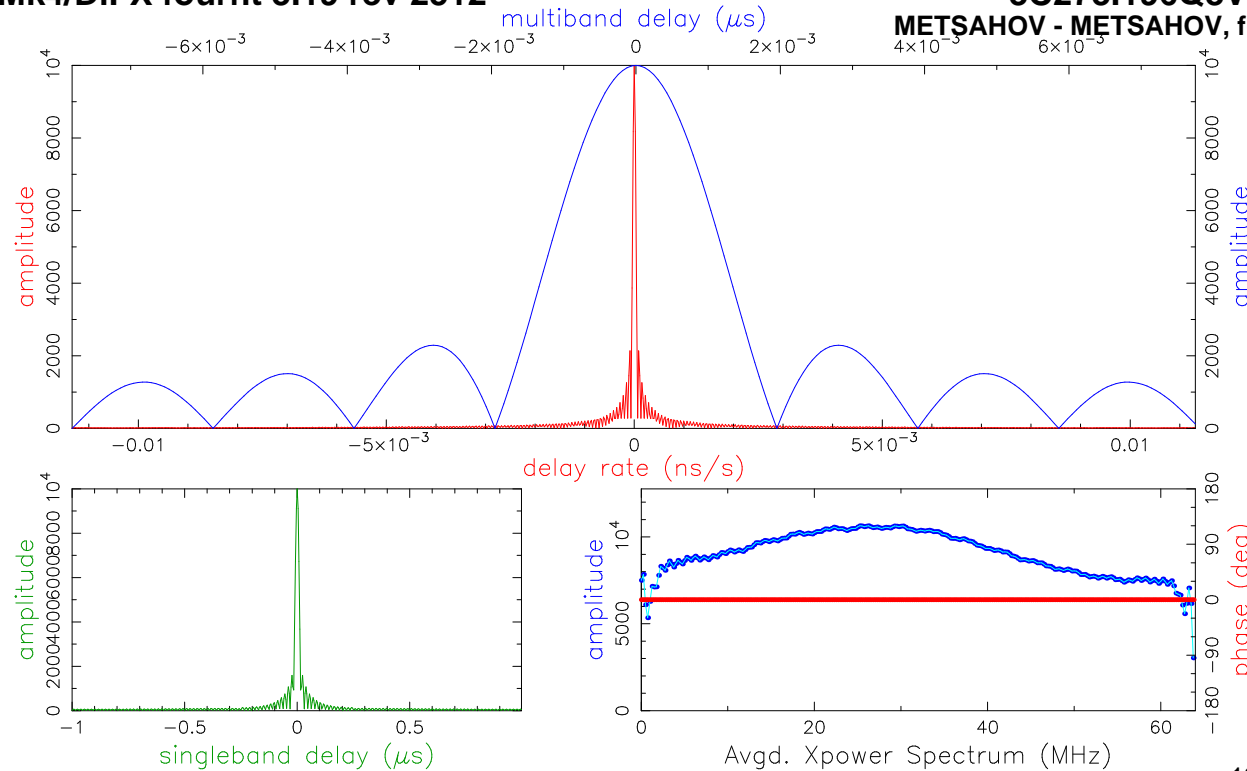
Z: az 247.3 el 14.6 pa 27.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -6.081 2053.264 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZY.W.252.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, ZZ

METSAHOV - METSAHOV, fgroup W, pol LL

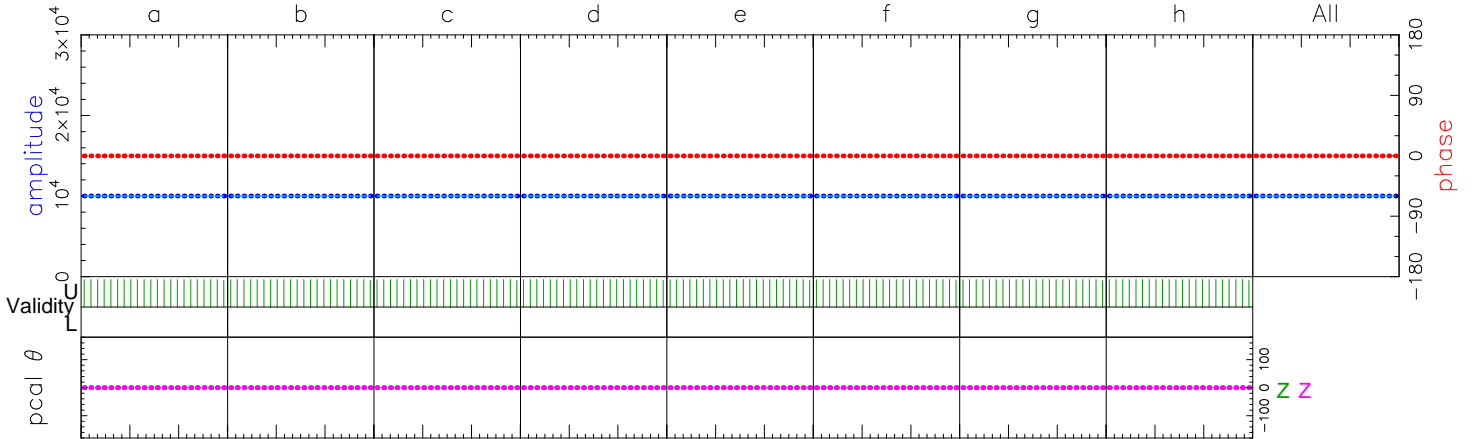


Fringe quality 9

SNR 366516.5
 Int time 179.635
 Amp 10000.000
 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
 2020:206:153509
 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



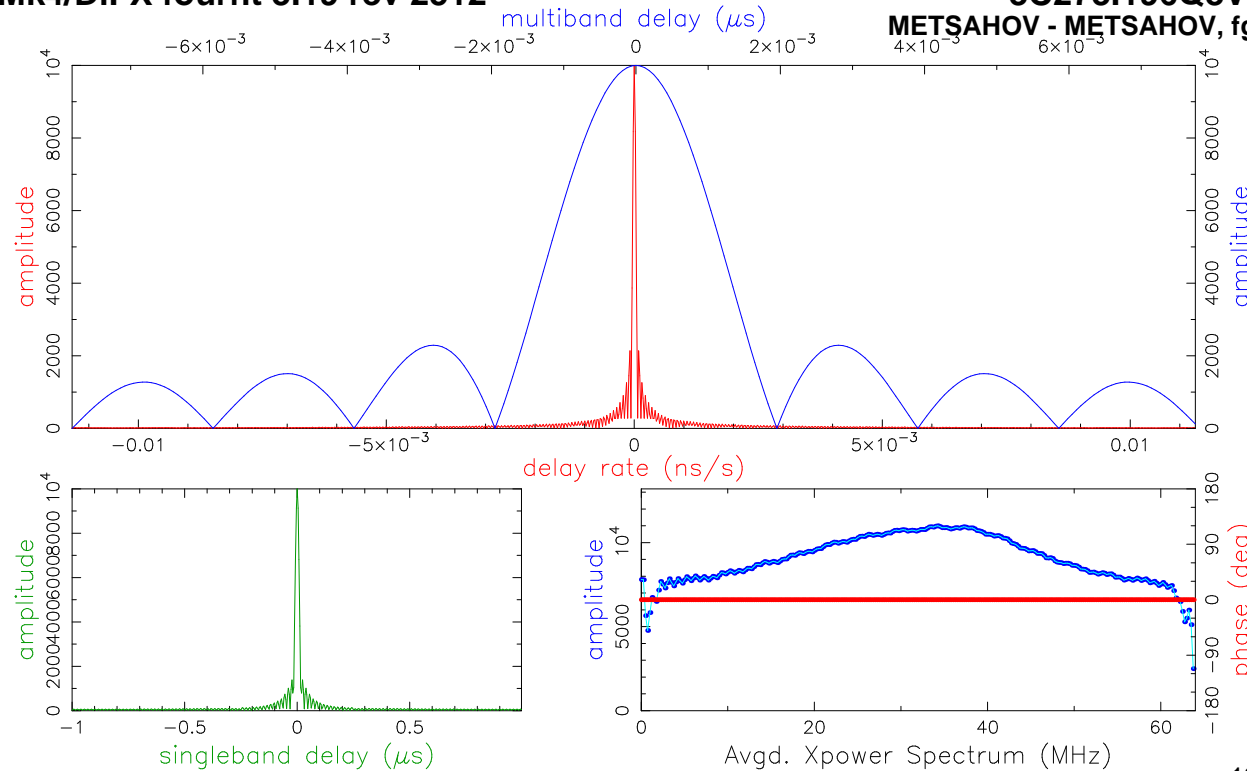
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	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) 1.21037091364E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.21037E-19 +/- 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

RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 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 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZZ.W.238.196Q8V

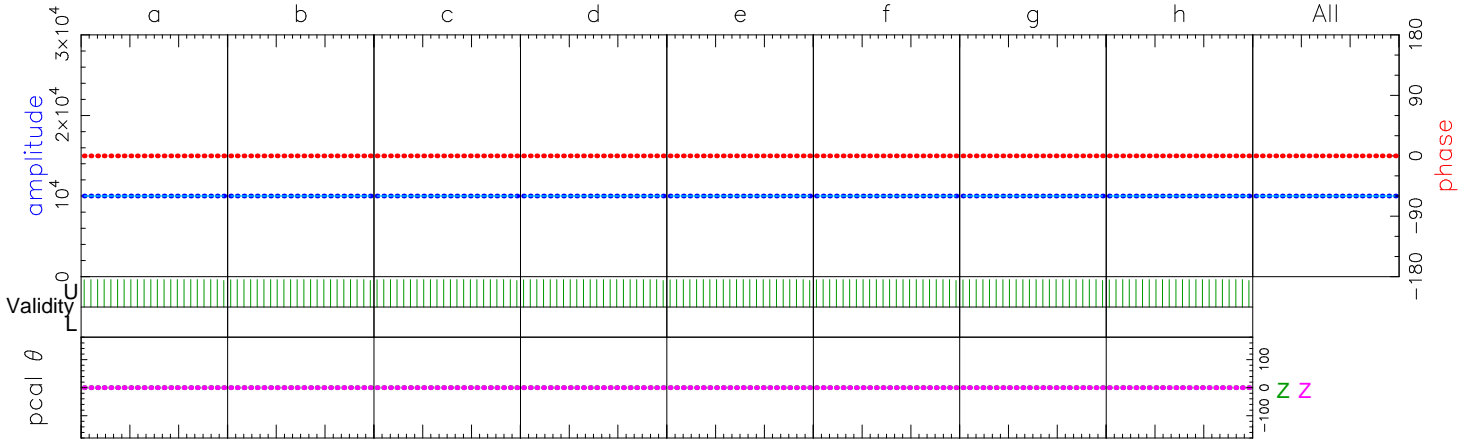


Fringe quality 9

SNR 366516.5
 Int time 179.635
 Amp 10000.000
 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
 Yr:day 16383
 Start 2020:119
 Stop 2020:119
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153511
 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

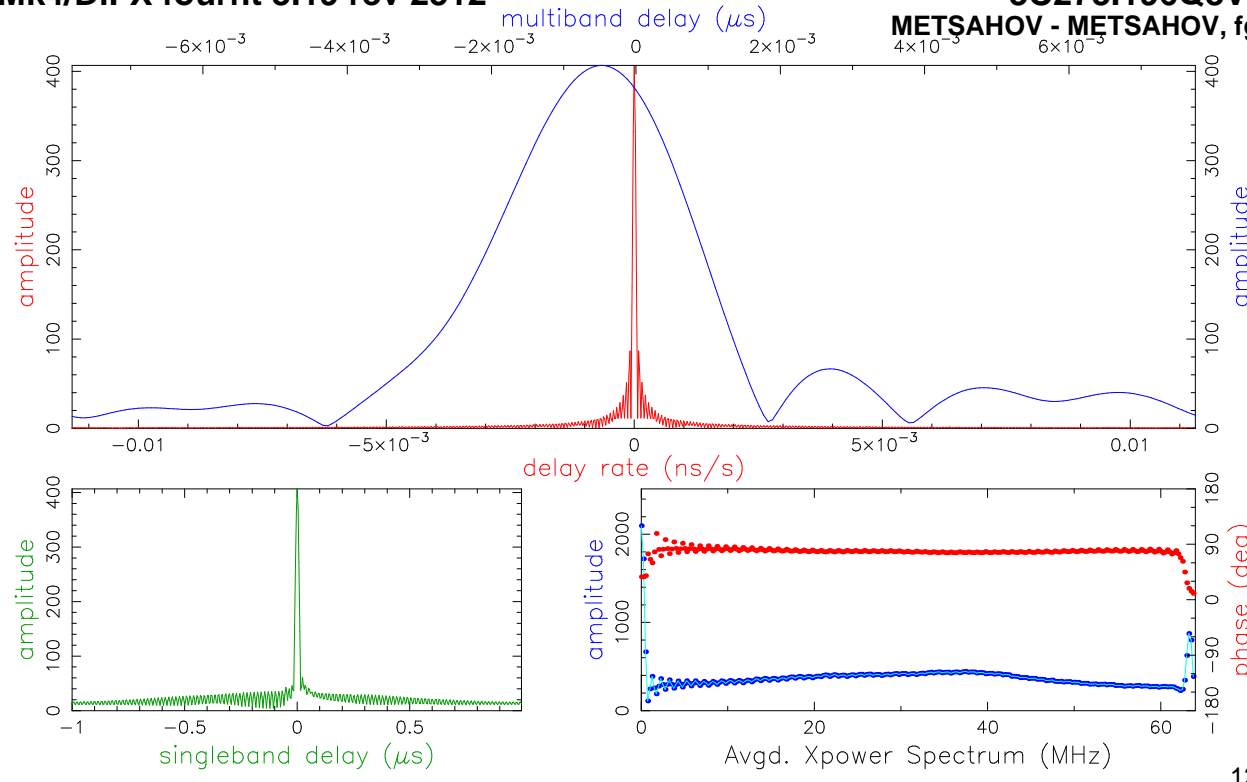


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	257.0	257.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Z	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

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) -8.52172661936E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -8.52173E-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

RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 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 Z: az 247.3 el 14.6 pa 27.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZZ.W.250.196Q8V

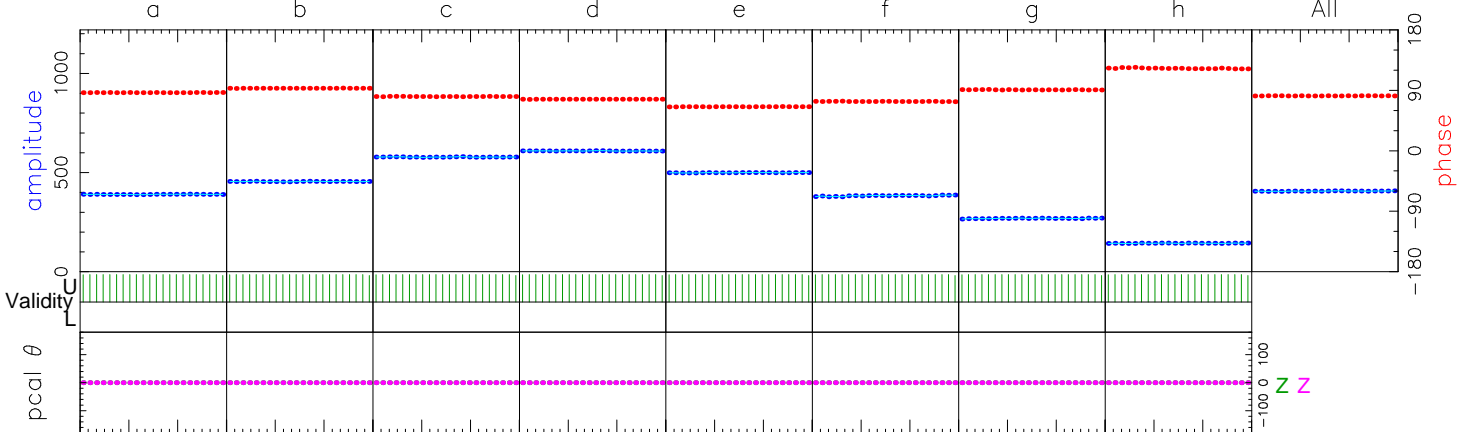


Fringe quality 7

SNR 14905.9
 Int time 179.635
 Amp 406.690
 Phase 81.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.000096
 MBD -0.000474
 Fringe rate (Hz)
 -0.000008
 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



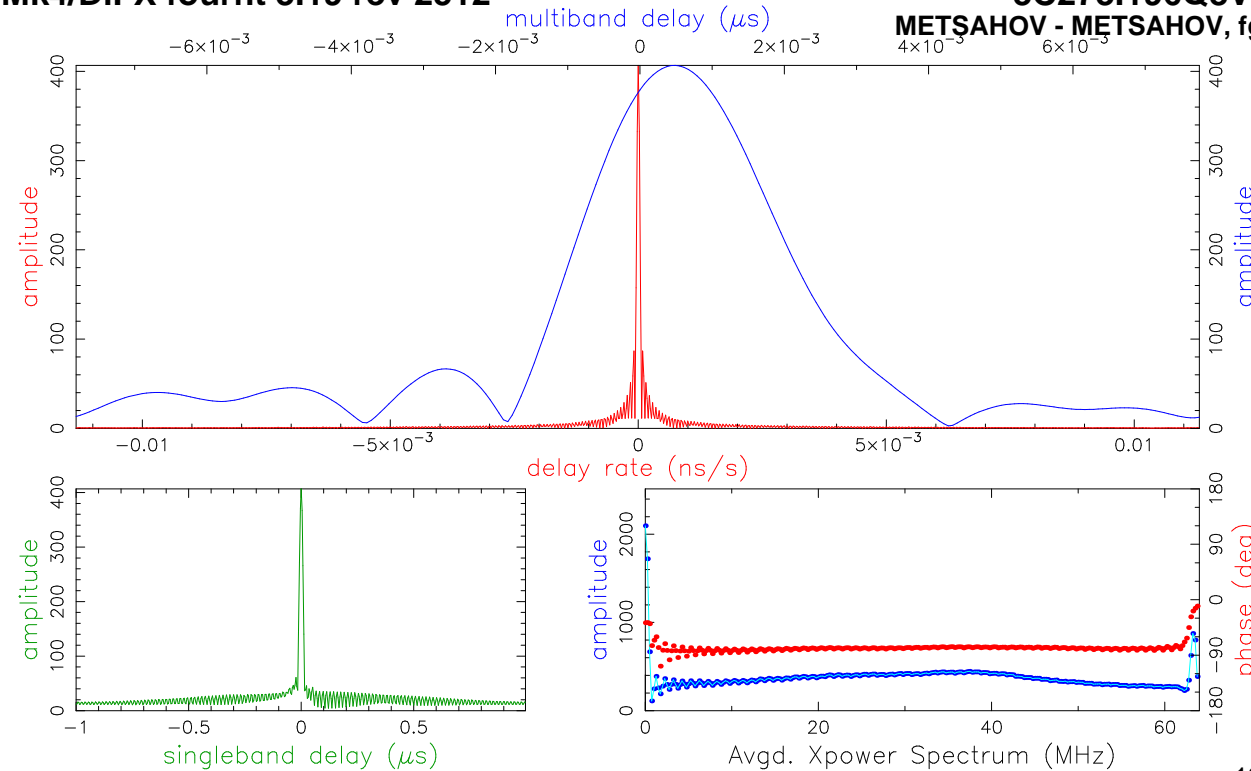
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-4.73562500000E-04				0.00000000000E+00			Resid mbdelay (usec)	-4.73563E-04 +/- 7.3E-08
Sband delay (usec)		9.65000000000E-05				0.0000000E+00			Resid sbdelay (usec)	9.65000E-05 +/- 5.8E-07
Phase delay (usec)		2.63542798829E-06				0.0000000E+00			Resid phdelay (usec)	2.63543E-06 +/- 2.5E-10
Delay rate (us/s)		-9.06953753068E-11				0.00000000000E+00			Resid rate (us/s)	-9.06954E-11 +/- 2.4E-12
Total phase (deg)			81.7			0.00000000000E+00			Resid phase (deg)	81.7 +/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 406.690 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.2 0.0 Search (1024X32) 406.648 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.9 0.0 Inc. seg. avg. 406.667 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 247.3 el 14.6 pa 27.3 Z: az 247.3 el 14.6 pa 27.3 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/ZZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZZ.W.260.196Q8V simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

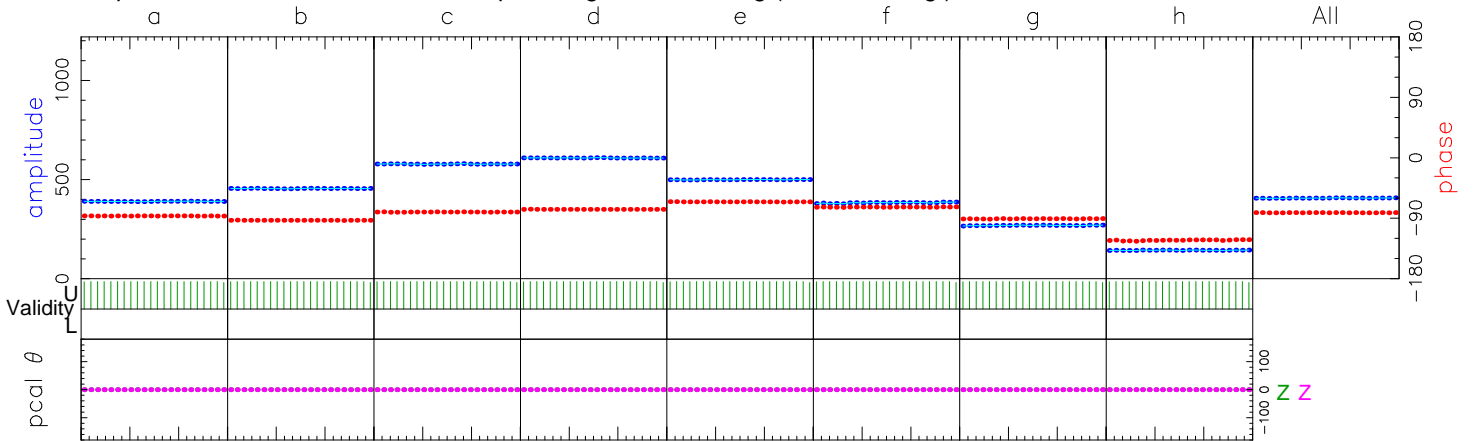
3C273.196Q8V, No0046, ZZ

METSĀHOV - METSAHOV, fgroup W, pol RL



Fringe quality 7
 SNR 14905.9
 Int time 179.635
 Amp 406.690
 Phase -81.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.000096
 MBD 0.000474
 Fringe rate (Hz) 0.000008
 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
 2020:206:153514
 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
	-86.5	-93.0	-80.7	-76.7	-65.6	-73.4	-90.8	-122.7	Phase	-81.7
	390.1	455.0	578.5	609.3	499.3	383.2	268.9	143.8	Ampl.	416.0
	257.0	257.0	257.3	257.1	257.1	256.5	256.6	256.3	Sbd box	257.0
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.735625000000E-04		Apriori delay (usec)		0.000000000000E+00		Resid mbdelay (usec)		4.73563E-04	+/- 7.3E-08
Sband delay (usec)	-9.650000000000E-05		Apriori clock (usec)		0.000000000000E+00		Resid sbdelay (usec)		-9.65000E-05	+/- 5.8E-07
Phase delay (usec)	-2.63542798836E-06		Apriori clockrate (us/s)		0.000000000000E+00		Resid phdelay (usec)		-2.63543E-06	+/- 2.5E-10
Delay rate (us/s)	9.06953753068E-11		Apriori rate (us/s)		0.000000000000E+00		Resid rate (us/s)		9.06954E-11	+/- 2.4E-12
Total phase (deg)			Apriori accel (us/s/s)		0.000000000000E+00		Resid phase (deg)		-81.7	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 406.690 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.2 0.0 Search (1024X32) 406.648 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.9 0.0 Inc. seg. avg. 406.667 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 247.3 el 14.6 pa 27.3 Z: az 247.3 el 14.6 pa 27.3 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/ZZ..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZZ.W.263.196Q8V simultaneous interpolator