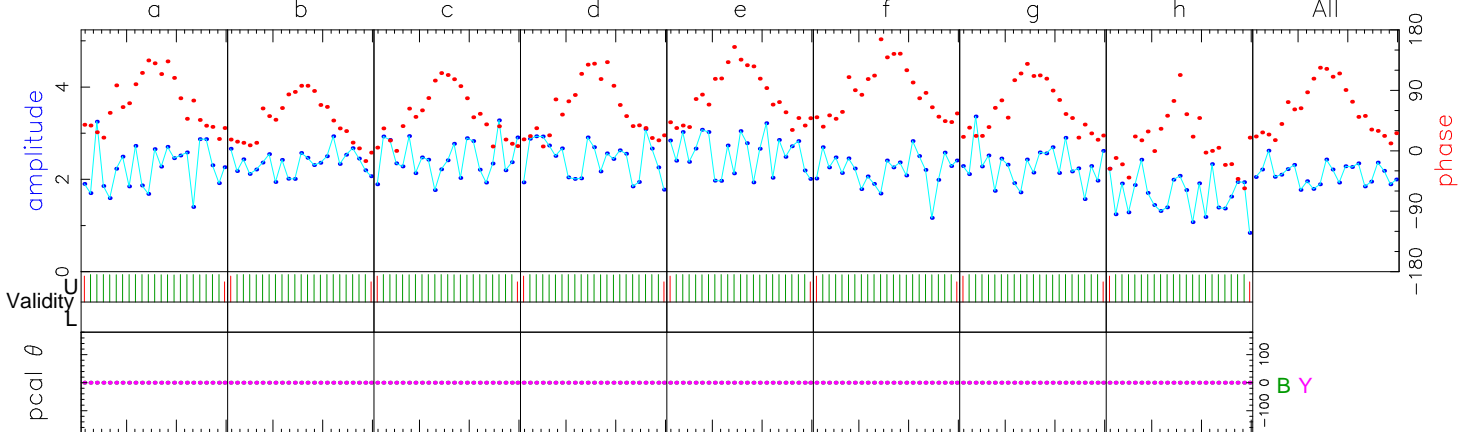


Fringe quality 4

SNR 62.9
Int time 173.429
Amp 1.746
Phase 58.8
PFD 0.0e+00
Delays (us)
SBD 0.005609
MBD 0.005136
Fringe rate (Hz)
0.009105
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
2020:206:153435
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

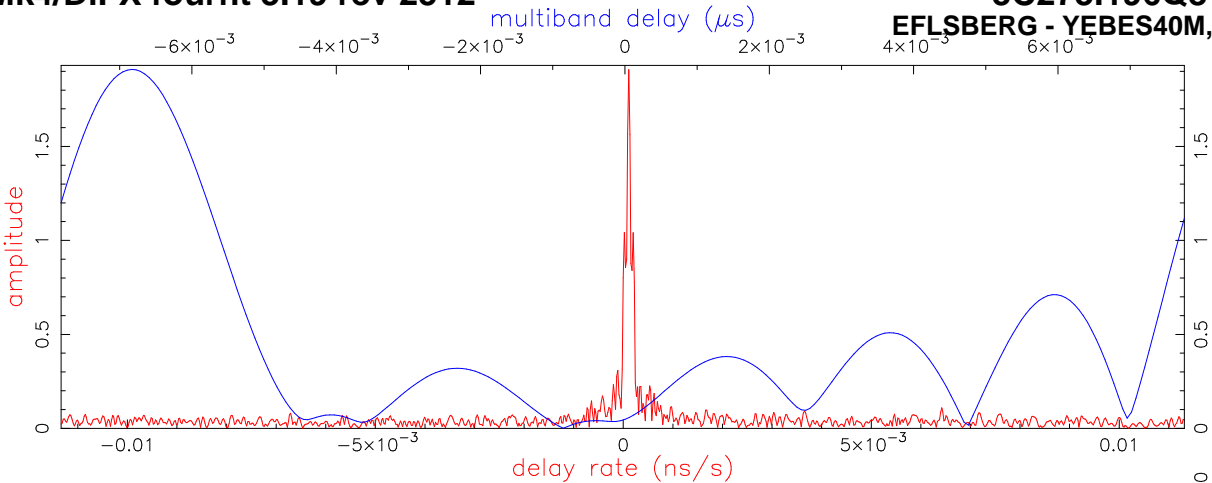
Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.59359136450E+03									
Sband delay (usec)	-3.59359089209E+03									
Phase delay (usec)	-3.59359649894E+03									
Delay rate (us/s)	-1.53993063588E-02									
Total phase (deg)			-150.9							
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)									58.8	+/- 1.8
PCal mode:	MANUAL	MANUAL								
PCal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
PC period (AP's)	5	5								
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

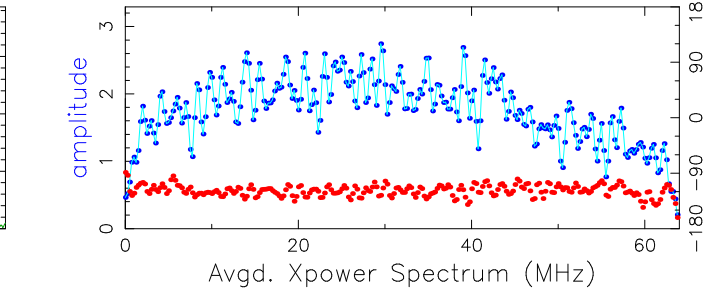
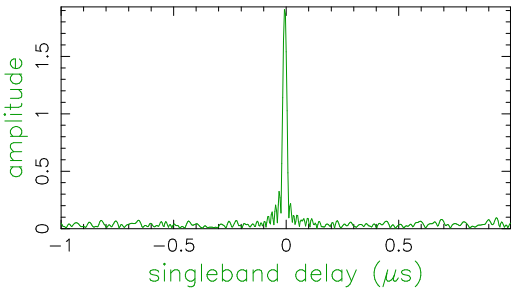
B: az 234.2 el 28.0 pa 31.1 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) 98.543 1134.434 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/BY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/BY.W.28.196Q8V



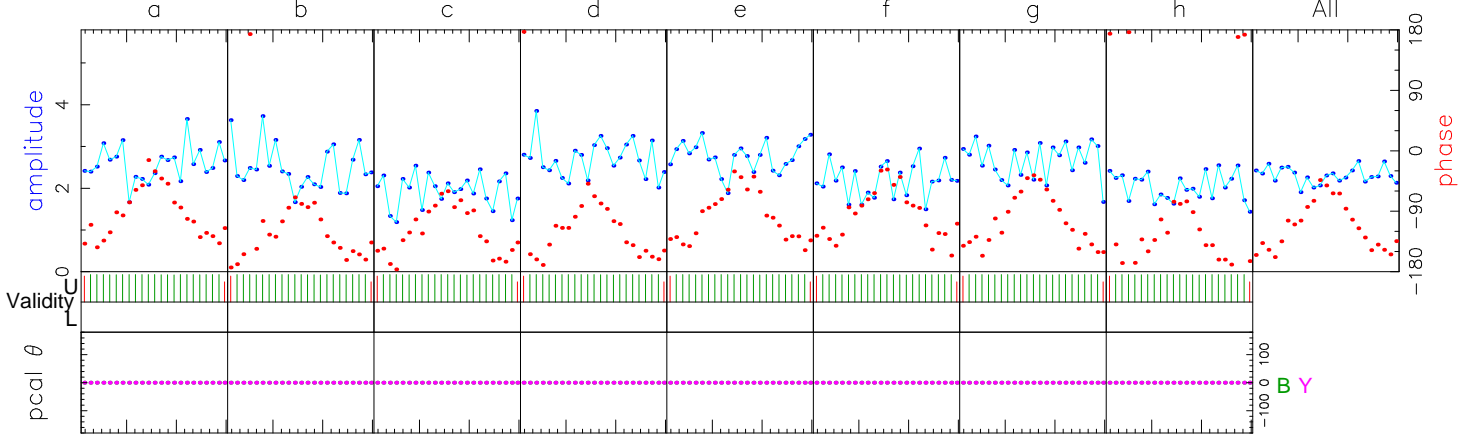
Fringe quality 5

SNR 69.6
Int time 173.429
Amp 1.931
Phase -114.3
PFD 0.0e+00
Delays (us)
SBD -0.006338
MBD -0.006788
Fringe rate (Hz)
0.009145
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



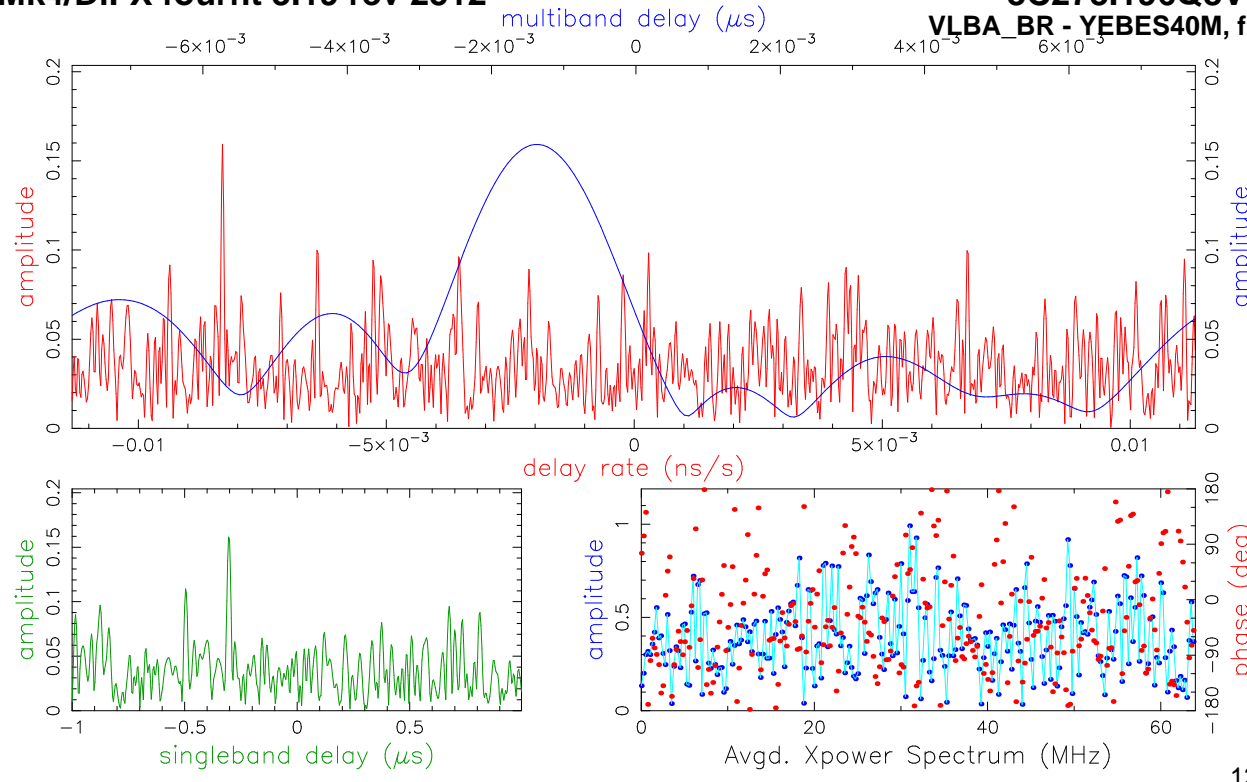
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004005.12
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153437
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



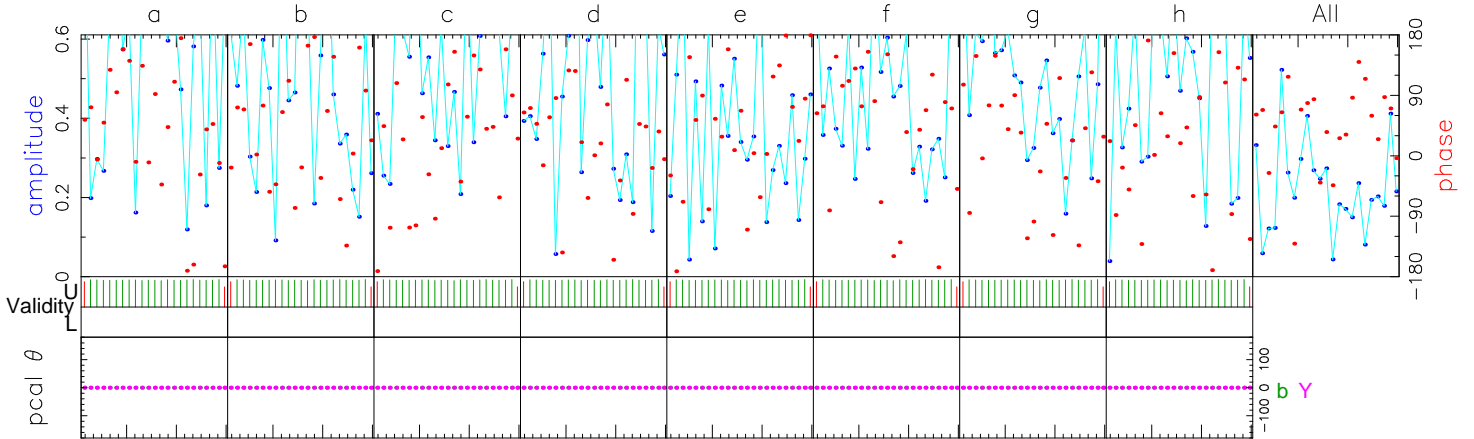
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-97.1	-131.0	-118.9	-125.6	-100.1	-96.3	-106.7	-143.2	Phase	-114.3
	2.1	2.1	1.6	2.2	2.2	1.8	2.1	1.7	Ampl.	2.0
	255.2	254.8	255.6	255.3	255.4	255.6	255.2	254.0	Sbd box	255.4
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.59360328903E+03		Apriori delay (usec)		-3.59359650084E+03		Resid mbdelay (usec)		-6.78819E-03	+/- 1.6E-05
Sband delay (usec)	-3.59360283909E+03		Apriori clock (usec)		1.0300179E+00		Resid sbdelay (usec)		-6.33825E-03	+/- 1.2E-04
Phase delay (usec)	-3.59359650452E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-3.68483E-06	+/- 5.3E-08
Delay rate (us/s)	-1.53993059010E-02		Apriori rate (us/s)		-1.53994120642E-02		Resid rate (us/s)		1.06163E-07	+/- 5.3E-10
Total phase (deg)			Apriori accel (us/s/s)		1.95811571103E-05		Resid phase (deg)		-114.3	+/- 1.6

	RMS	Theor.	Amplitude	1.931 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	35.3	4.0	Search (1024X32)	1.892	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	22.0	6.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	18.9	2.3	Inc. seg. avg.	2.306	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.8	4.1	Inc. frq. avg.	1.984	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



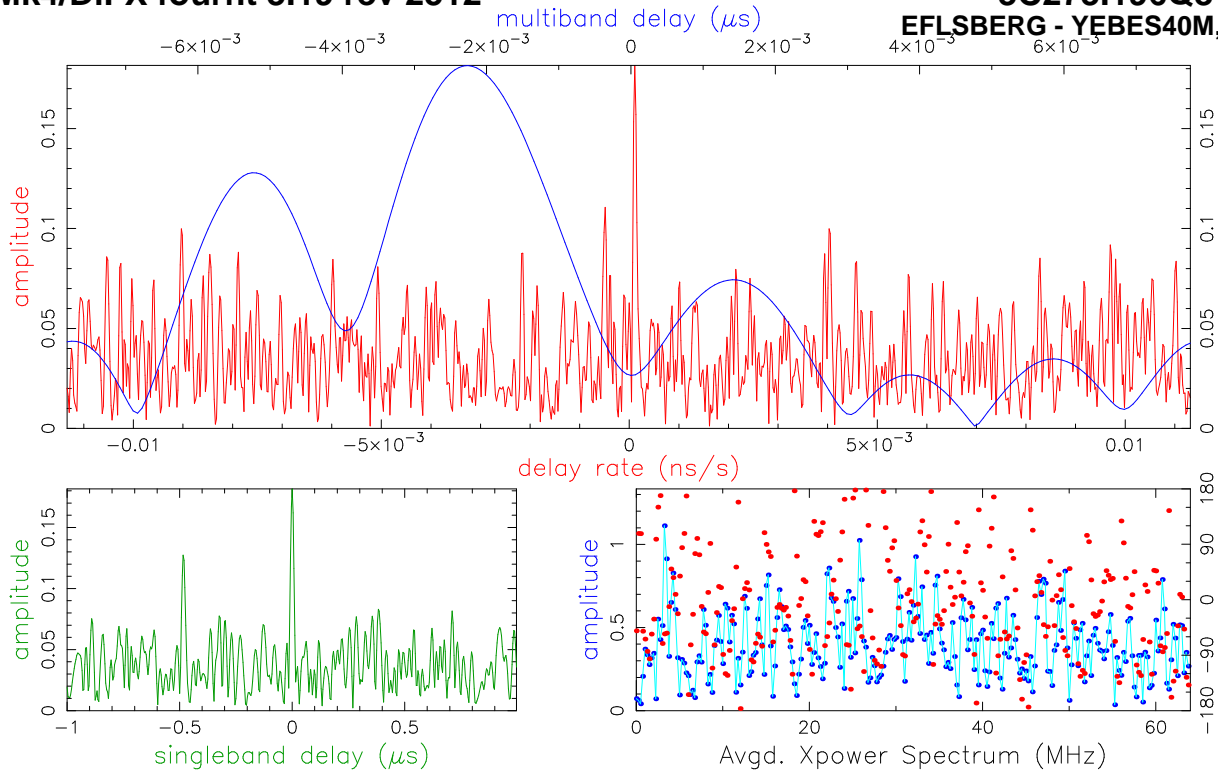
Fringe quality 0
SNR 5.8
Int time 170.279
Amp 0.204
Phase 62.0
PFD 6.5e-01
Delays (us)
SBD -0.303089
MBD -0.001361
Fringe rate (Hz)
-0.716835
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 004005.12
Stop 004300.22
FRT 004130.00
Corr/FF/build
2020:206:020932
2020:206:153438
2020:014:135814
RA & Dec (J2000)
12h29m06.699731s
+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.06359451451E+04									
Sband delay (usec)	-1.06359499986E+04									
Phase delay (usec)	-1.06356469071E+04									
Delay rate (us/s)	1.71949847651E+00									
Total phase (deg)			-208.9							
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)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

b: az 95.6 el 7.6 pa -41.7 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -9824.094 996.692
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bY.W.47.196Q8V

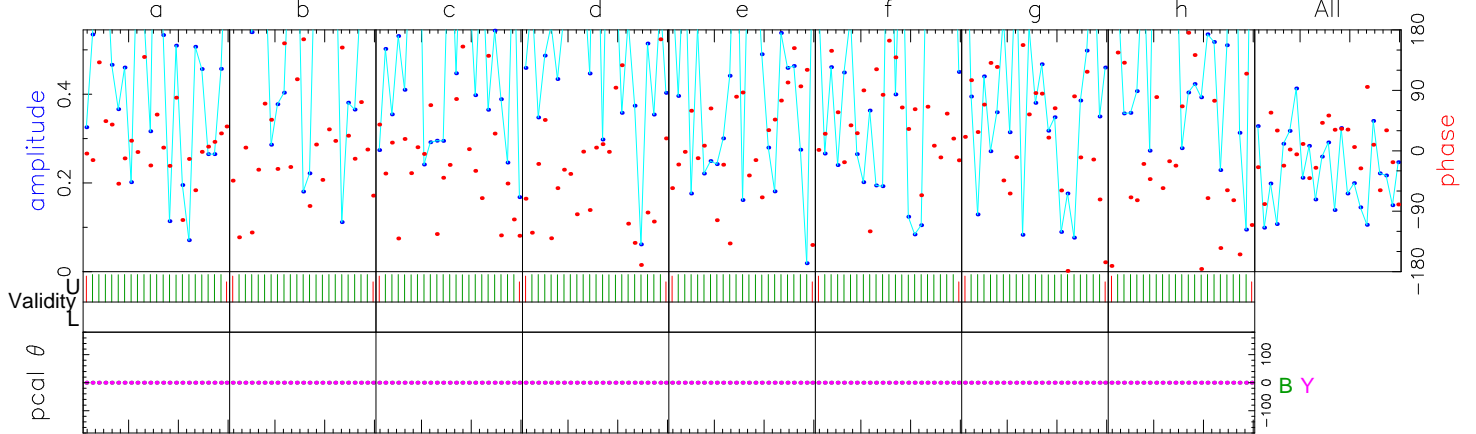


Fringe quality 0

SNR 6.5
Int time 173.429
Amp 0.182
Phase 2.7
PFD 8.5e-03
Delays (us)
SBD -0.000326
MBD -0.002260
Fringe rate (Hz) 0.009654
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
2020:206:153439
2020:014:135814
RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

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



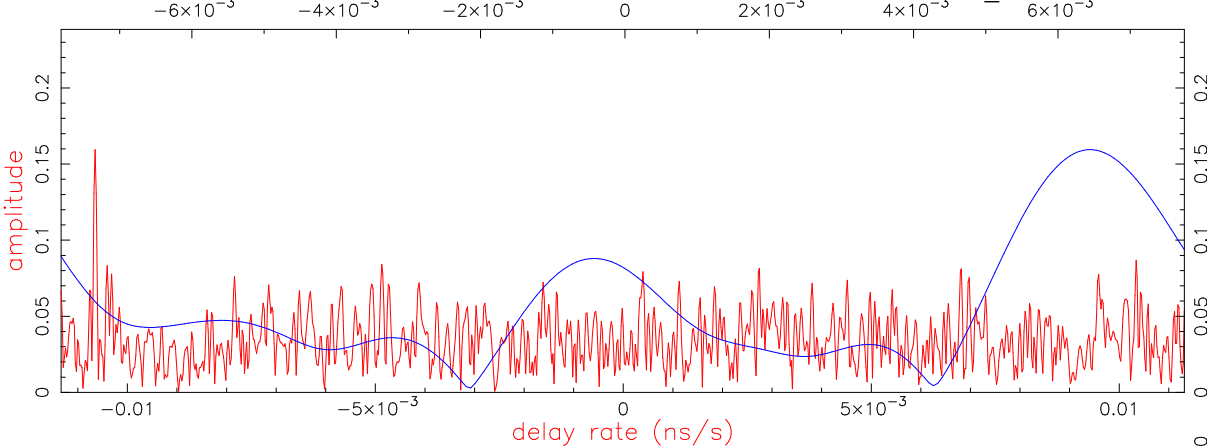
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-3.59359876125E+03				-3.59359650084E+03			Resid mbdelay (usec)	-2.26041E-03 +/- 1.7E-04
Sband delay (usec)		-3.59359682659E+03				1.0300179E+00			Resid sbdelay (usec)	-3.25750E-04 +/- 1.3E-03
Phase delay (usec)		-3.59359650075E+03				-4.2000000E-07			Resid phdelay (usec)	8.68024E-08 +/- 5.6E-07
Delay rate (us/s)		-1.53992999917E-02				-1.53994120642E-02			Resid rate (us/s)	1.12073E-07 +/- 5.6E-09
Total phase (deg)			-206.9			1.95811571103E-05			Resid phase (deg)	2.7 +/- 17.5
RMS	42.2	42.0							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	42.2	42.0							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	52.6	73.3							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	43.7	24.8							Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	38.0	43.2							Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 234.2 el 28.0 pa 31.1 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) 98.543 1134.434 simultaneous interpolator

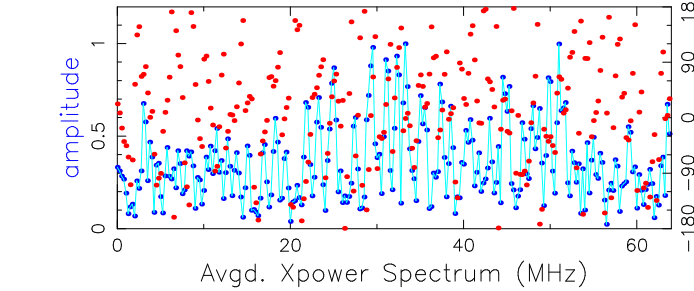
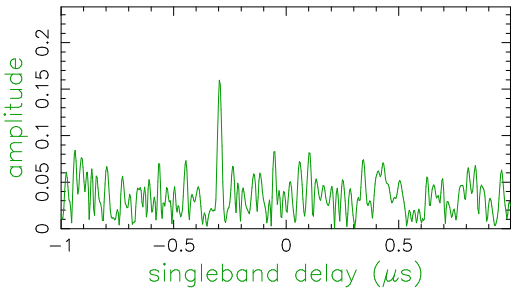
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/BY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/BY.W.52.196Q8V

multiband delay (μs)

Fringe quality 0

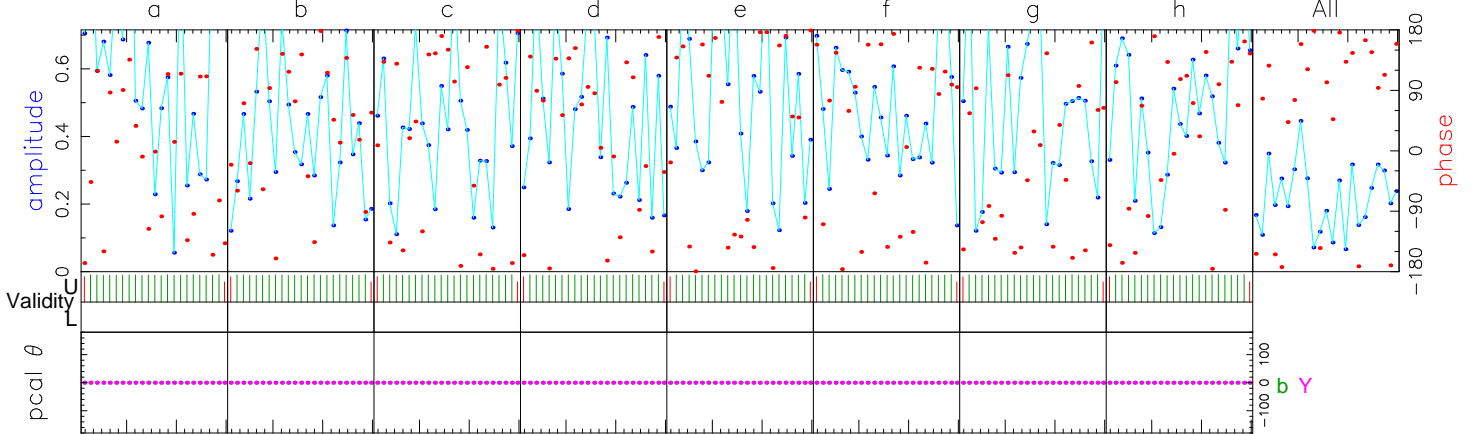


SNR 5.7
 Int time 170.279
 Amp 0.238
 Phase 142.2
 PFD 7.1e-01
 Delays (us)
 SBD -0.295725
 MBD 0.006451
 Fringe rate (Hz)
 -0.919462
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

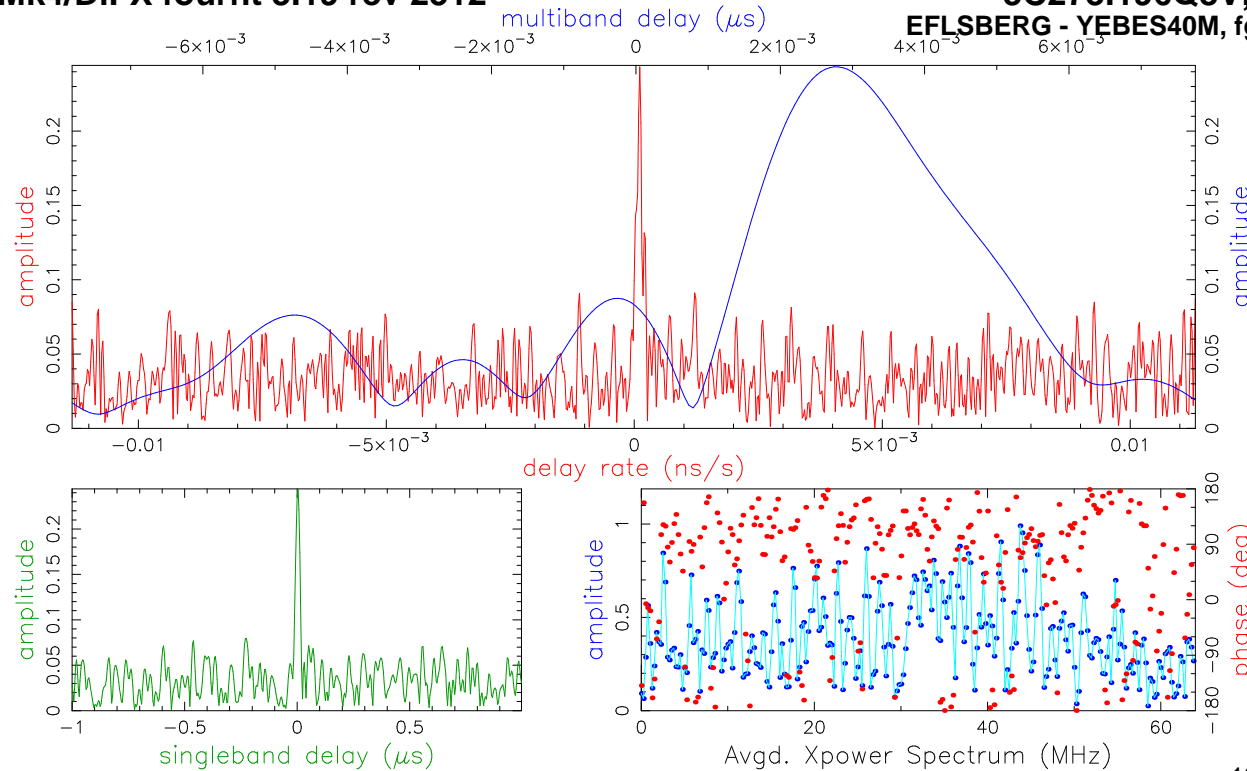


Exp. c201e
 Yr:day 16383
 Start 2020:119
 Stop 2020:119
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153441
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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

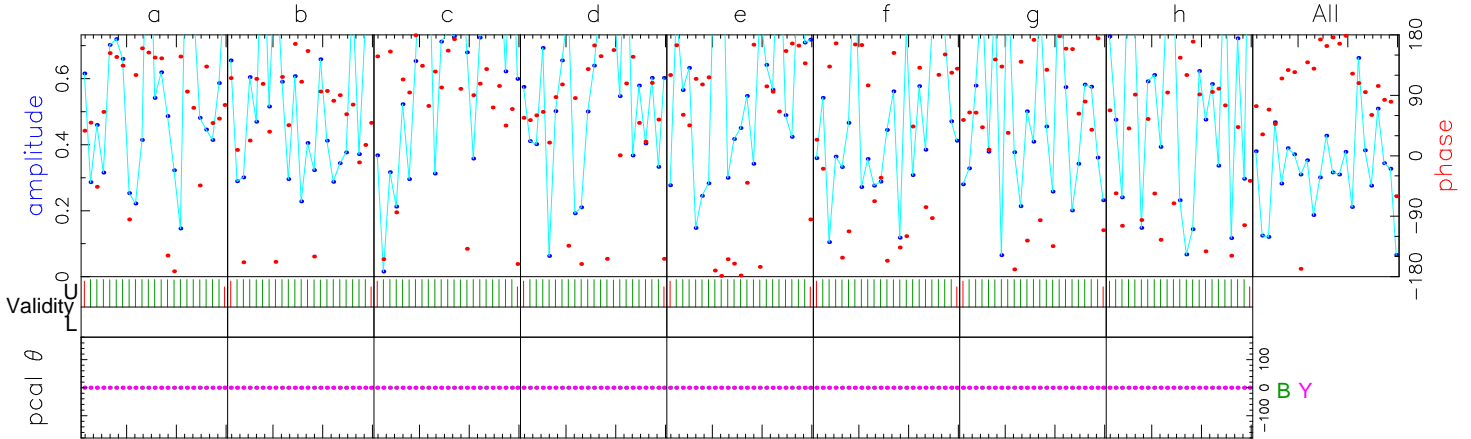


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.06359373331E+04									
Sband delay (usec)	-1.06359426341E+04									
Phase delay (usec)	-1.06356469045E+04									
Delay rate (us/s)	1.71949612421E+00									
Total phase (deg)			-128.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode										
PC period (AP's)										
PC freqs										
PC phase										
Mani PC										
PC amp										
Chan ids										
Tracks										
Chan ids										
Tracks										
RMS										
Theor.										
Amplitude										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
ph/seg (deg)										
amp/seg (%)										
ph/frq (deg)										
amp/frq (%)										
b: az 95.6 el 7.6 pa -41.7										
Y: az 229.4 el 39.6 pa 35.3										
u,v (fr/asec)										
Control file: cf_1234_gmva										
Input file: /Exps/c201e/v1/1234/No0046/bY..196Q8V										
Output file: /Exps/c201e/v1/1234/No0046/bY.W.63.196Q8V										



Fringe quality 9
SNR 8.8
Int time 173.429
Amp 0.244
Phase 118.2
PFD 2.7e-10
Delays (us)
SBD 0.002873
MBD 0.002736
Fringe rate (Hz) 0.008672
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
2020:206:153442
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



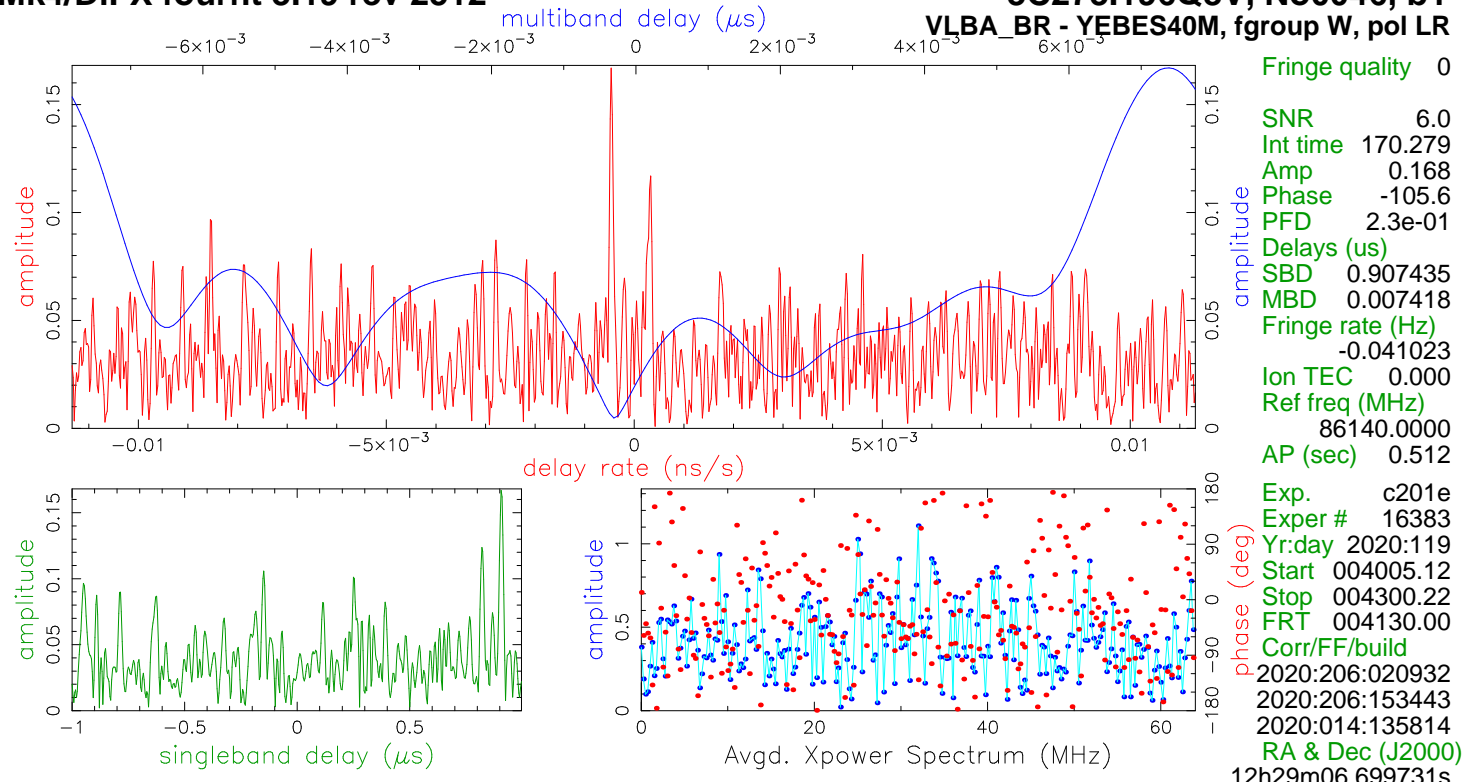
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	116.9	92.9	116.7	114.5	150.5	171.1	115.7	50.6	Phase	118.2
	0.3	0.3	0.5	0.3	0.3	0.2	0.2	0.2	Ampl.	0.3
	257.6	257.3	258.2	256.2	258.2	183.7	62.4	215.3	Sbd box	257.7
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-3.59359376460E+03		Apriori delay (usec)		-3.59359650084E+03		Resid mbdelay (usec)		2.73624E-03	+/- 1.2E-04
Sband delay (usec)	-3.59359362834E+03		Apriori clock (usec)		1.0300179E+00		Resid sbdelay (usec)		2.87250E-03	+/- 9.8E-04
Phase delay (usec)	-3.59359649703E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		3.81301E-06	+/- 4.2E-07
Delay rate (us/s)	-1.53993113895E-02		Apriori rate (us/s)		-1.53994120642E-02		Resid rate (us/s)		1.00675E-07	+/- 4.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.95811571103E-05		Resid phase (deg)		118.2	+/- 13.0

	RMS	Theor.	Amplitude	0.244 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	54.5	31.2	Search (1024X32)	0.233	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	62.4	54.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	38.9	18.4	Inc. seg. avg.	0.286	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	40.8	32.2	Inc. frq. avg.	0.262	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

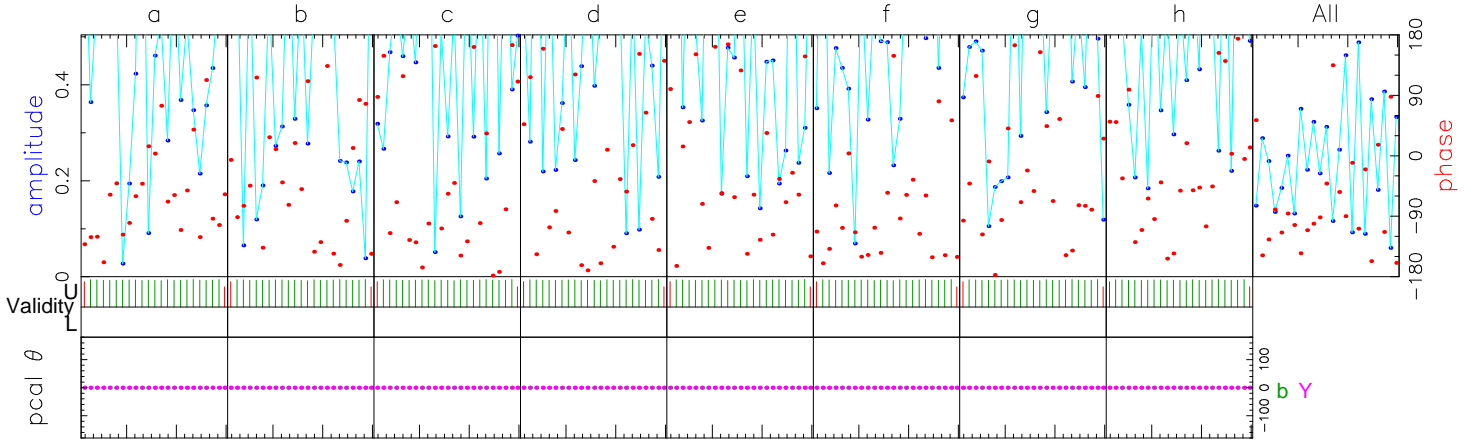
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bY

VLBA_BR - YEBES40M, fgroup W, pol LR



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
	-75.8	-82.8	-131.8	-130.4	-157.1	-119.5	-84.4	-63.9	Phase	-105.6
	0.3	0.1	0.3	0.1	0.1	0.3	0.1	0.1	Ampl.	0.2
	374.9	151.5	488.8	28.2	27.9	488.1	33.3	326.1	Sbd box	489.3
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.06347332416E+04		Apriori delay (usec)	-1.06356469091E+04	Resid mbdelay (usec)	7.41756E-03	+/-	1.8E-04		
Sband delay (usec)	-1.06347394746E+04		Apriori clock (usec)	-1.3405222E+01	Resid sbdelay (usec)	9.07435E-01	+/-	1.4E-03		
Phase delay (usec)	-1.06356469125E+04		Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	-3.40594E-06	+/-	6.2E-07		
Delay rate (us/s)	1.71950632201E+00		Apriori rate (us/s)	1.71950679825E+00	Resid rate (us/s)	-4.76236E-07	+/-	6.1E-09		
Total phase (deg)		-16.5	Apriori accel (us/s/s)	5.68358793555E-05	Resid phase (deg)	-105.6	+/-	19.1		

	RMS	Theor.	Amplitude	0.168 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	71.0	45.8	Search (1024X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	83.6	80.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	35.9	27.0	Inc. seg. avg.	0.186	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.7	47.2	Inc. frq. avg.	0.171	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

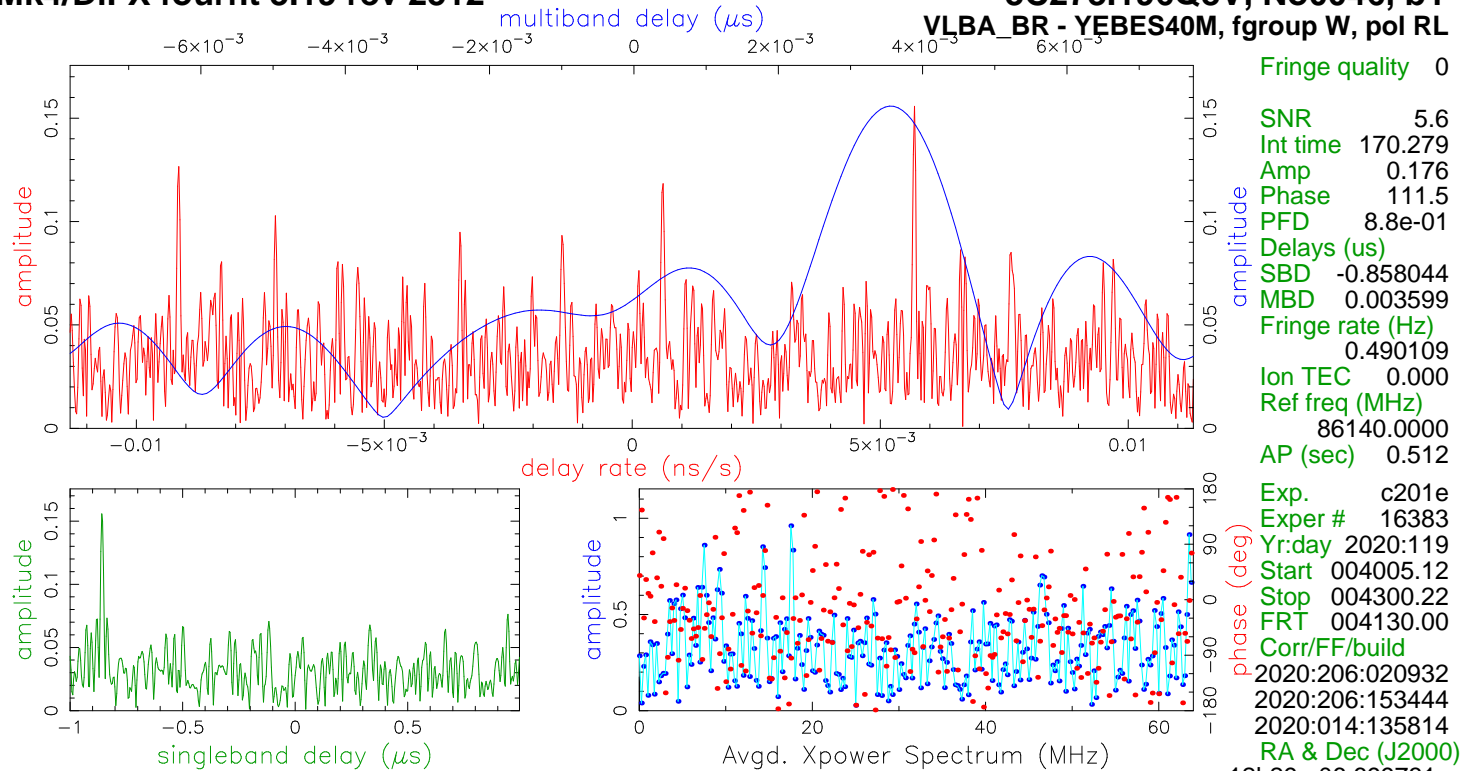
b: az 95.6 el 7.6 pa -41.7 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -9824.094 996.692 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bY.W.73.196Q8V

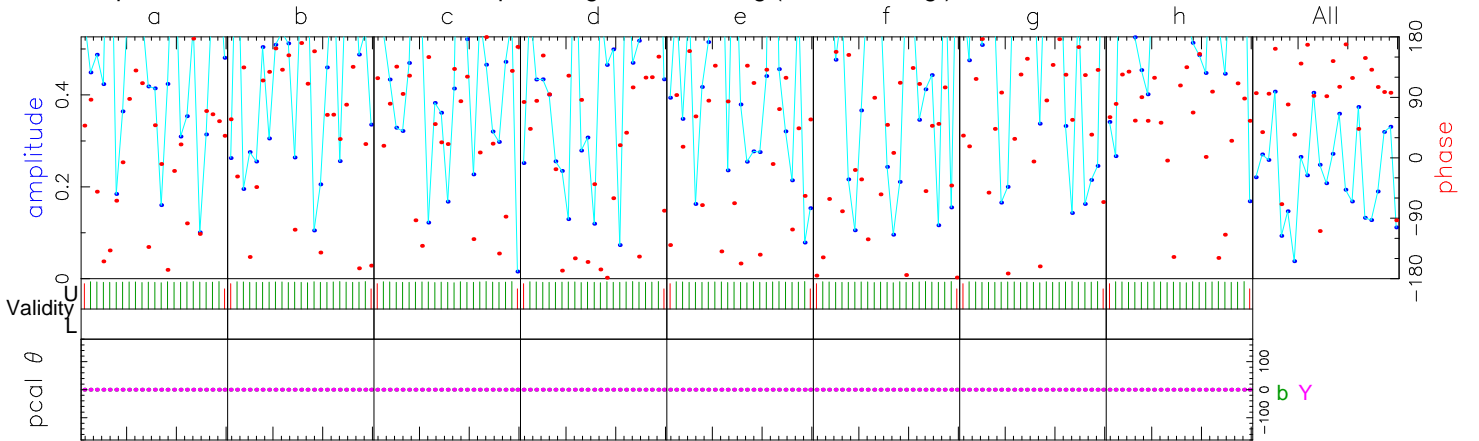
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, bY

VLBA_BR - YE8ES40M, 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

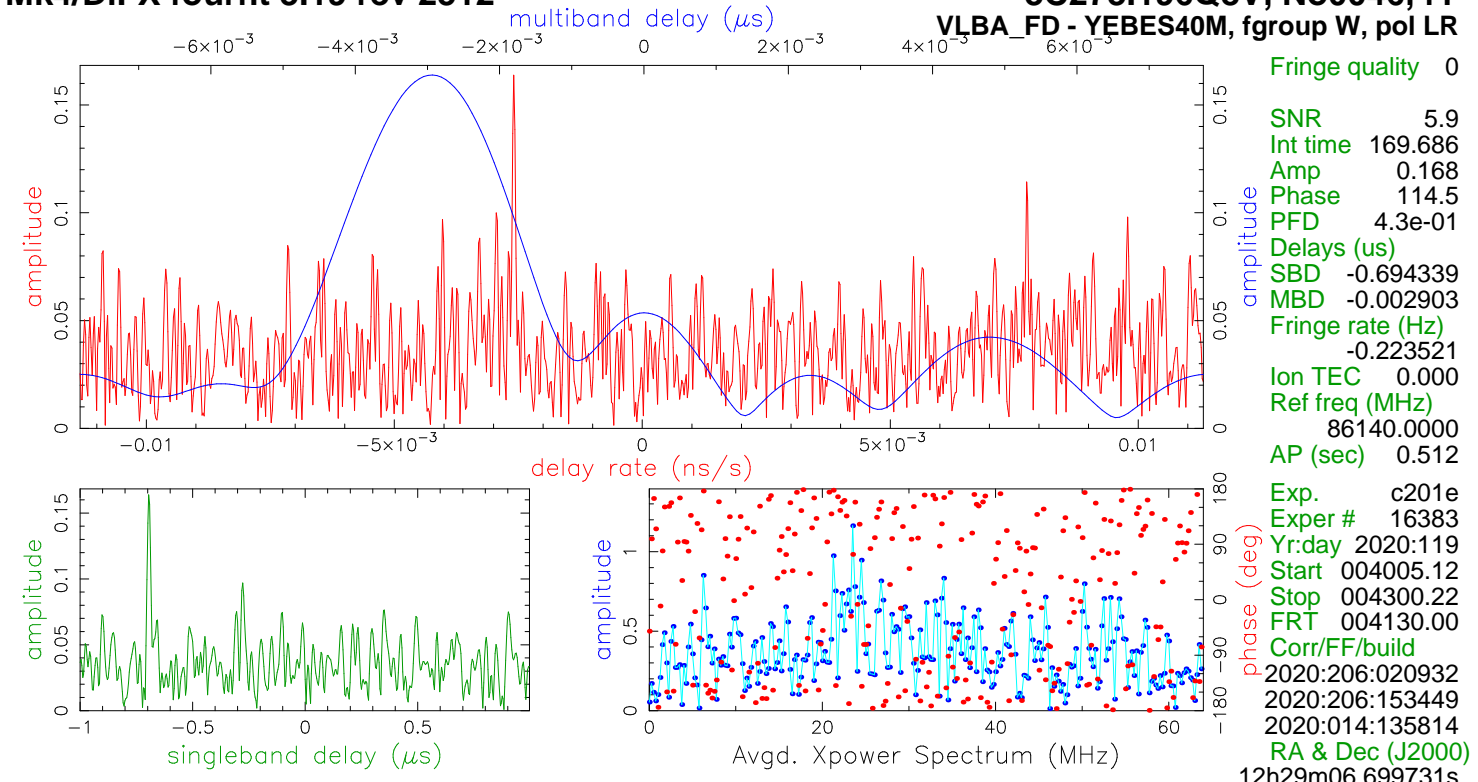


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
78.1	117.8	104.3	138.0	109.5	178.9	107.7	96.2	96.2	Phase	111.5
0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.4	Ampl.	0.2
137.4	18.8	178.8	209.1	444.5	6.2	438.5	37.1	37.1	Sbd box	37.3
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)	-1.06365026847E+04		Apriori delay (usec)	-1.06356469091E+04	Resid mbdelay (usec)	3.59947E-03	+/-	1.9E-04		
Sband delay (usec)	-1.06365049531E+04		Apriori clock (usec)	-1.3405222E+01	Resid sbdelay (usec)	-8.58044E-01	+/-	1.5E-03		
Phase delay (usec)	-1.06356469055E+04		Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	3.59493E-06	+/-	6.6E-07		
Delay rate (us/s)	1.71951248794E+00		Apriori rate (us/s)	1.71950679825E+00	Resid rate (us/s)	5.68969E-06	+/-	6.5E-09		
Total phase (deg)		-159.4	Apriori accel (us/s/s)	5.68358793555E-05	Resid phase (deg)	111.5	+/-	20.3		

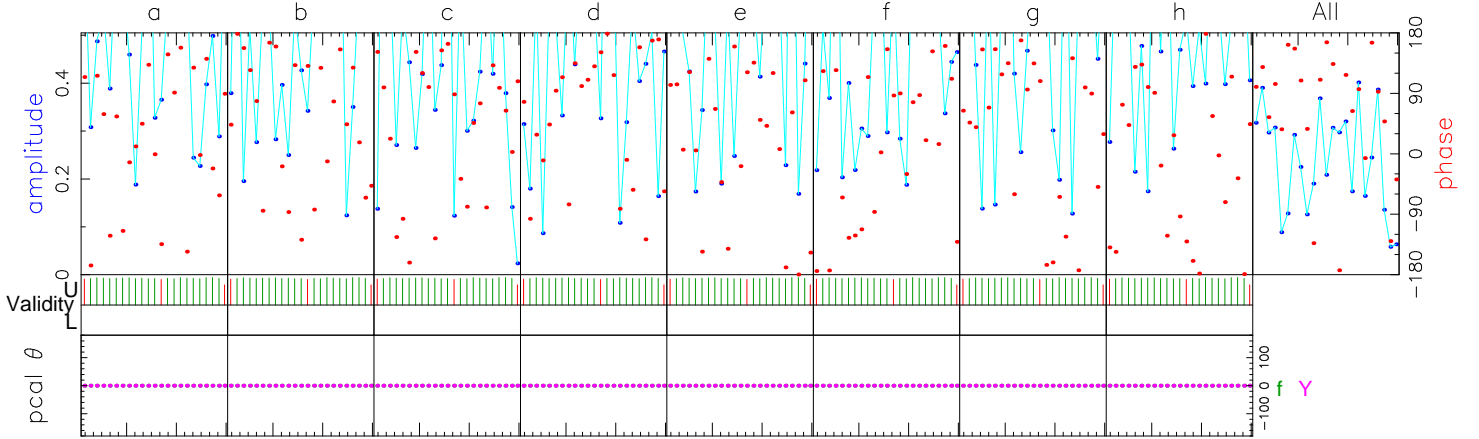
	RMS	Theor.	Amplitude	0.176 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	66.8	48.8	Search (1024X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	79.4	85.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	33.4	28.8	Inc. seg. avg.	0.192	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	57.4	50.2	Inc. frq. avg.	0.167	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 95.6 el 7.6 pa -41.7 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -9824.094 996.692 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/bY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/bY.W.83.196Q8V



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



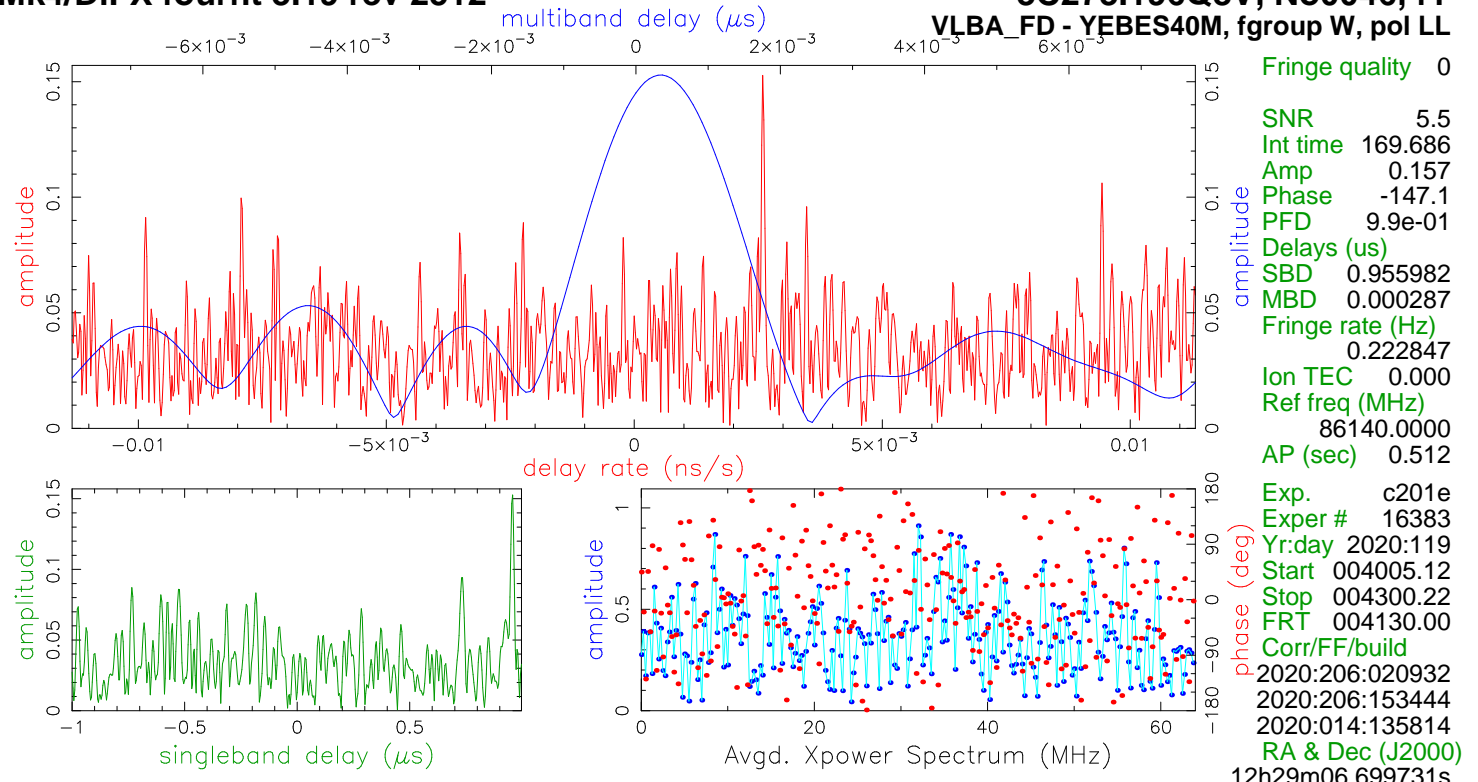
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
110.8	139.0	118.5	125.4	100.1	106.9	114.2	114.2	138.0	Phase	114.5
0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
138.4	332.2	492.8	428.3	219.7	219.7	35.2	35.2	105.6	Sbd box	79.2
U/L 342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y 0:0	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	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000		
f W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Y W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	

Group delay (usec)(sbd)	-5.33224976185E+03	Apriori delay (usec)	-5.33155935849E+03	Resid mbdelay (usec)	-2.90336E-03	+/-	1.8E-04
Sband delay (usec)	-5.33225369724E+03	Apriori clock (usec)	-8.0684452E+00	Resid sbdelay (usec)	-6.94339E-01	+/-	1.5E-03
Phase delay (usec)	-5.33155935479E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	3.69339E-06	+/-	6.3E-07
Delay rate (us/s)	1.90426960451E+00	Apriori rate (us/s)	1.90427219937E+00	Resid rate (us/s)	-2.59486E-06	+/-	6.2E-09
Total phase (deg)	64.1	Apriori accel (us/s/s)	2.77719840482E-05	Resid phase (deg)	114.5	+/-	19.5

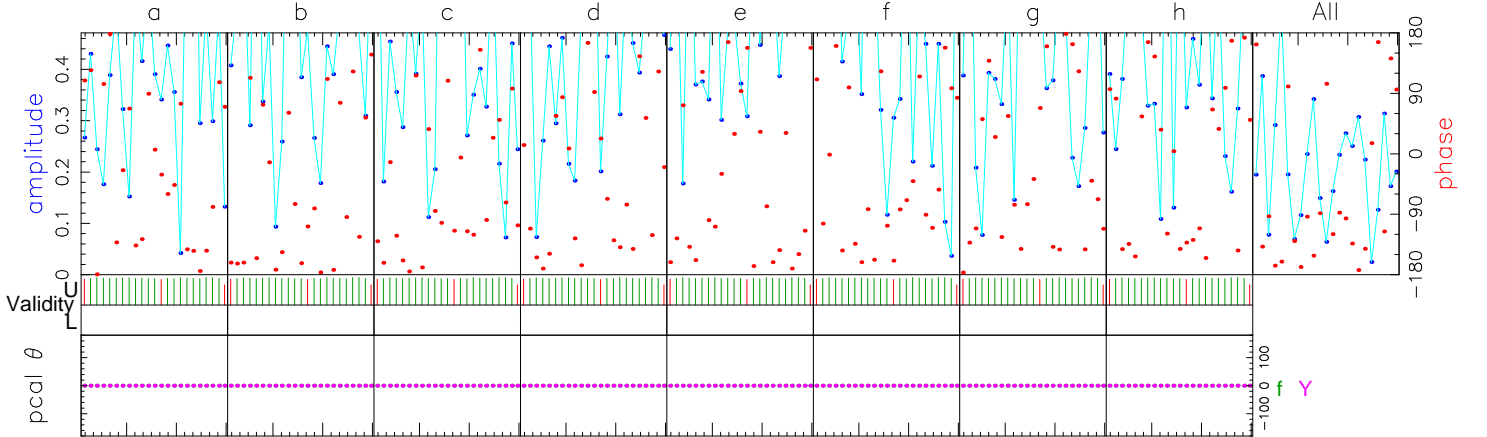
ph/seg (deg)	65.4	Theor.	46.8	Amplitude	0.168 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.1	Search (1024X32)	0.160	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	16.1	Inc. seg. avg.	0.184	Inc. frq. avg.	0.153	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	37.8	Inc. frq. avg.	0.153			Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
						Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

f: az 101.6 el 22.3 pa -57.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10898.381 -1161.554 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/fY.W.111.196Q8V



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



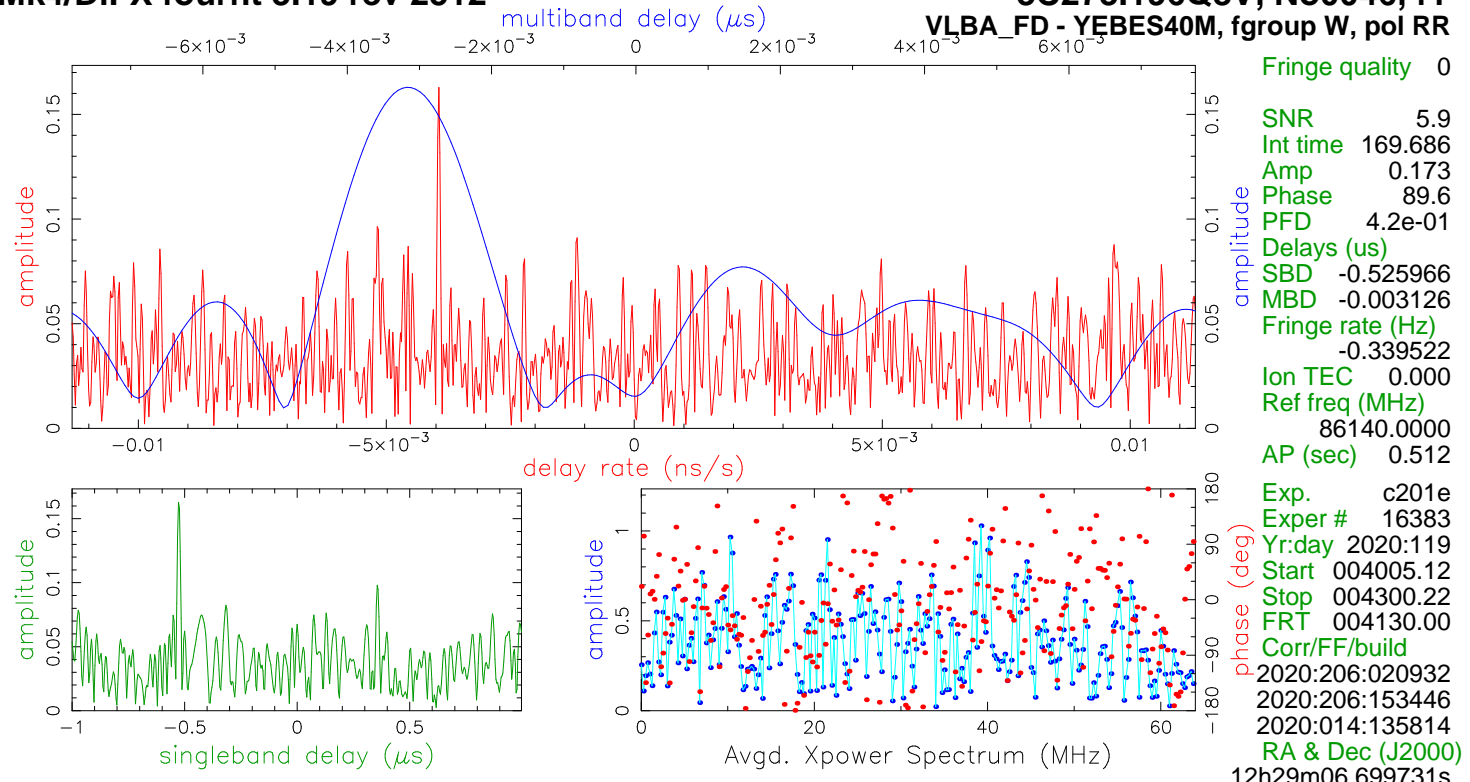
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-149.1	-169.4	-126.8	-164.5	-148.8	-130.3	-118.3	-165.7	Phase	-147.1
	0.2	0.2	0.1	0.1	0.3	0.1	0.2	0.2	Ampl.	0.1
	234.8	437.8	485.5	251.6	200.3	443.3	75.8	295.3	Sbd box	501.7
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.33060594676E+03	Apriori delay (usec)	-5.33155935849E+03	Resid mbdelay (usec)	2.86732E-04	+/-	2.0E-04
Sband delay (usec)	-5.33060337649E+03	Apriori clock (usec)	-8.0684452E+00	Resid sbdelay (usec)	9.55982E-01	+/-	1.6E-03
Phase delay (usec)	-5.33155936323E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	-4.74417E-06	+/-	6.7E-07
Delay rate (us/s)	1.90427478640E+00	Apriori rate (us/s)	1.90427219937E+00	Resid rate (us/s)	2.58704E-06	+/-	6.7E-09
Total phase (deg)	-197.6	Apriori accel (us/s/s)	2.77719840482E-05	Resid phase (deg)	-147.1	+/-	20.9

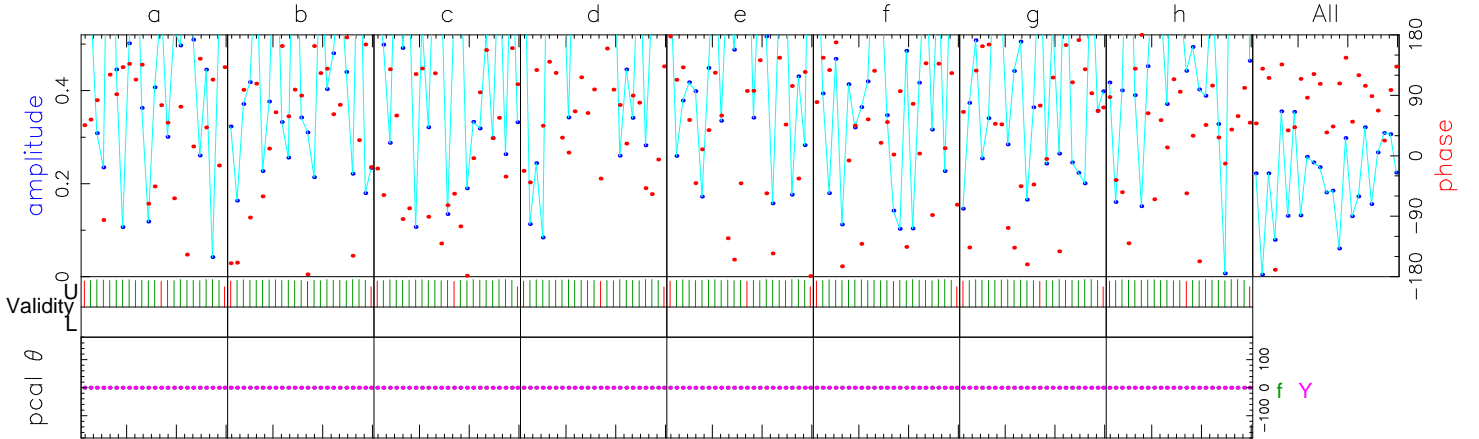
ph/seg (deg)	62.9	Theor.	50.2	Search (1024X32)	0.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	84.4		87.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	21.1		29.6	Inc. seg. avg.	0.159	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	27.5		51.7	Inc. frq. avg.	0.144	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 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10898.381 -1161.554 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/fY.W.79.196Q8V



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
83.8	98.7	-142.8	73.0	120.7	101.1	110.2	66.3	66.3	Phase	89.6
0.2	0.2	0.0	0.3	0.1	0.2	0.2	0.2	0.2	Ampl.	0.2
142.2	222.6	337.3	480.3	154.7	16.6	289.7	113.4	113.4	Sbd box	122.4
U/L 342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y 0:0	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	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000		
f W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
Y W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.33207810983E+03		Apriori delay (usec)	-5.33155935849E+03	Resid mbdelay (usec)	-3.12635E-03	+/-	1.8E-04		
Sband delay (usec)	-5.33208532474E+03		Apriori clock (usec)	-8.0684452E+00	Resid sbdelay (usec)	-5.25966E-01	+/-	1.5E-03		
Phase delay (usec)	-5.33155935560E+03		Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	2.88961E-06	+/-	6.3E-07		
Delay rate (us/s)	1.90426825785E+00		Apriori rate (us/s)	1.90427219937E+00	Resid rate (us/s)	-3.94151E-06	+/-	6.2E-09		
Total phase (deg)		39.1	Apriori accel (us/s/s)	2.77719840482E-05	Resid phase (deg)	89.6	+/-	19.5		

ph/seg (deg) 42.4 46.8 Amplitude 0.173 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 62.8 81.7 Search (1024X32) 0.161 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 55.9 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 47.7 48.2 Inc. seg. avg. 0.166 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

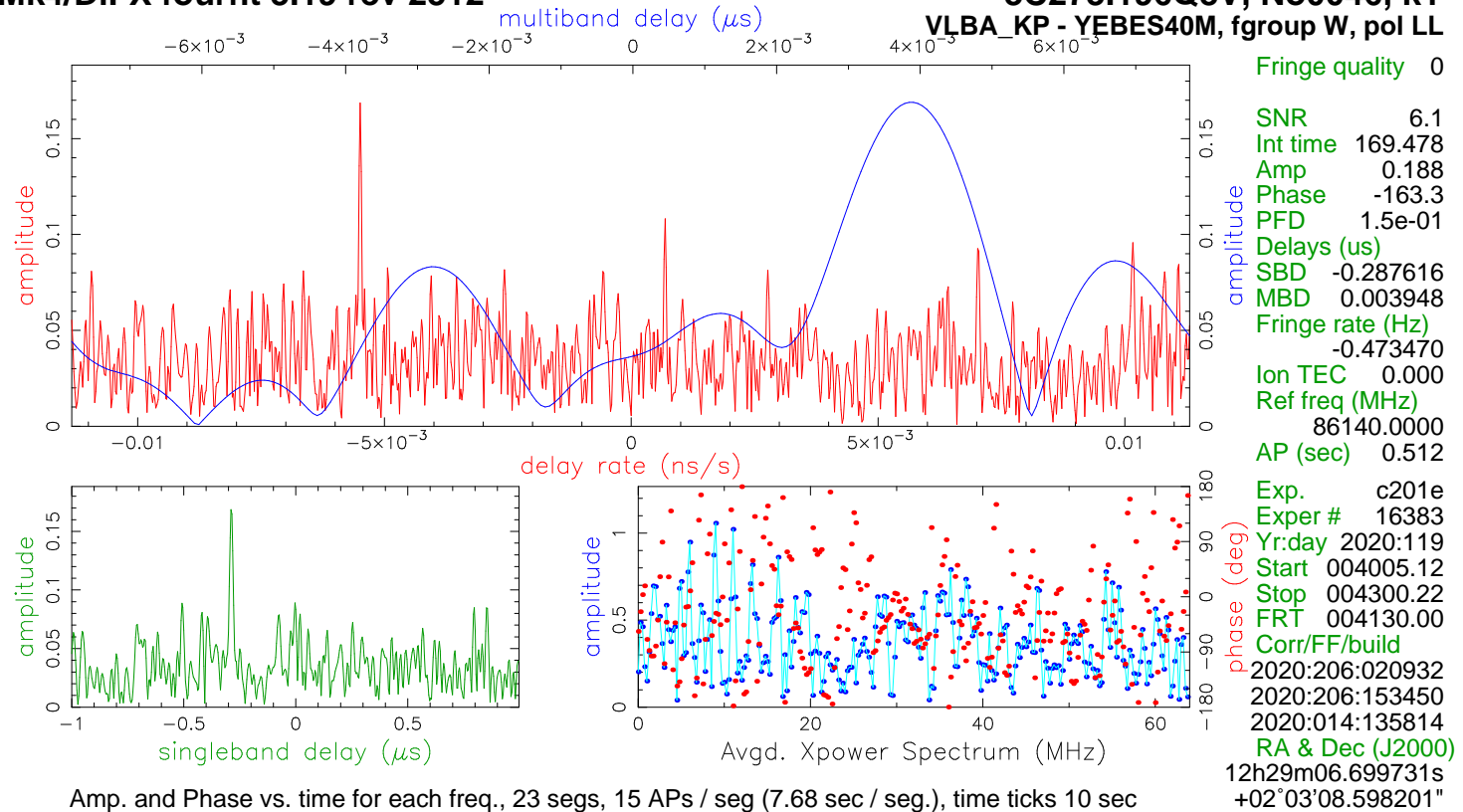
f: az 101.6 el 22.3 pa -57.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10898.381 -1161.554 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/fY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/fY.W.93.196Q8V simultaneous interpolator

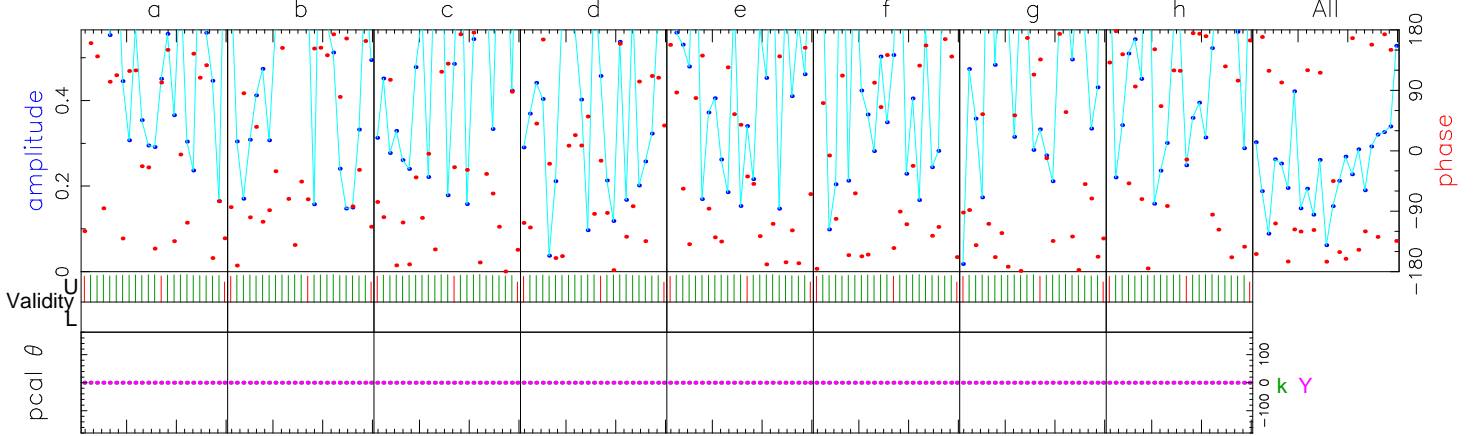
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, kY

VLBA_KP - 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



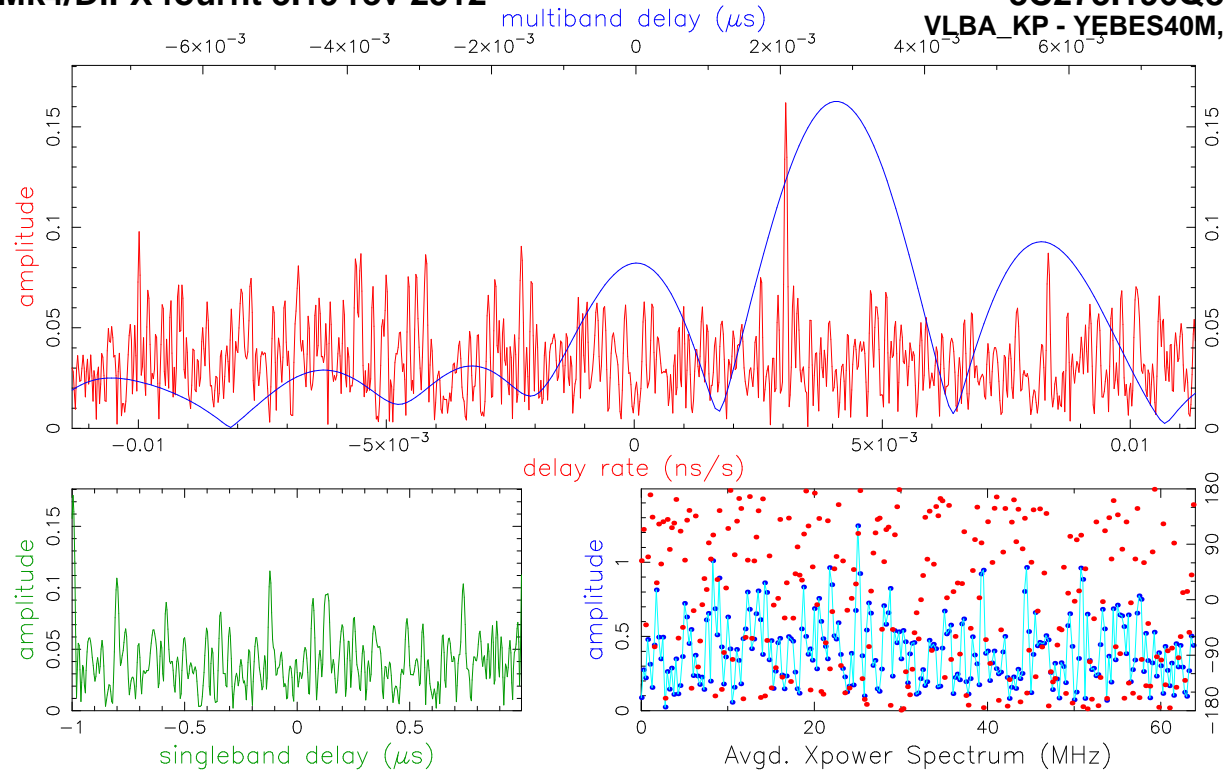
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
165.6	-137.7	-146.0	-75.5	-152.8	-179.8	-147.5	169.1		Phase	-163.3
0.2	0.2	0.3	0.0	0.2	0.2	0.3	0.3		Ampl.	0.2
310.2	388.8	148.4	194.9	322.9	121.2	183.4	45.9		Sbd box	183.4
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0		APs used	
k	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000		PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
k	1000	1000	1000	1000	1000	1000	1000		PC amp	
Y	1000	1000	1000	1000	1000	1000	1000			
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.67745790842E+03	Apriori delay (usec)	-7.67716498107E+03	Resid mbdelay (usec)	3.94765E-03	+/-	1.8E-04
Sband delay (usec)	-7.67745259682E+03	Apriori clock (usec)	-1.2329794E+01	Resid sbdelay (usec)	-2.87616E-01	+/-	1.4E-03
Phase delay (usec)	-7.67716498634E+03	Apriori clockrate (us/s)	-2.1460000E-07	Resid phdelay (usec)	-5.26743E-06	+/-	6.1E-07
Delay rate (us/s)	1.95218347056E+00	Apriori rate (us/s)	1.95218896707E+00	Resid rate (us/s)	-5.49652E-06	+/-	6.0E-09
Total phase (deg)		Apriori accel (us/s/s)	4.02960520354E-05	Resid phase (deg)	-163.3	+/-	18.9

ph/seg (deg)	51.4	Theor.	45.2	Amplitude	0.188 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	71.4		78.9	Search (1024X32)	0.165	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	42.9		26.7	Inc. seg. avg.	0.204	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	42.5		46.6	Inc. frq. avg.	0.184	Data rate (Mb/s):	2048							

k: az 97.7 el 15.7 pa -57.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -11166.491 -953.502 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kY.W.120.196Q8V

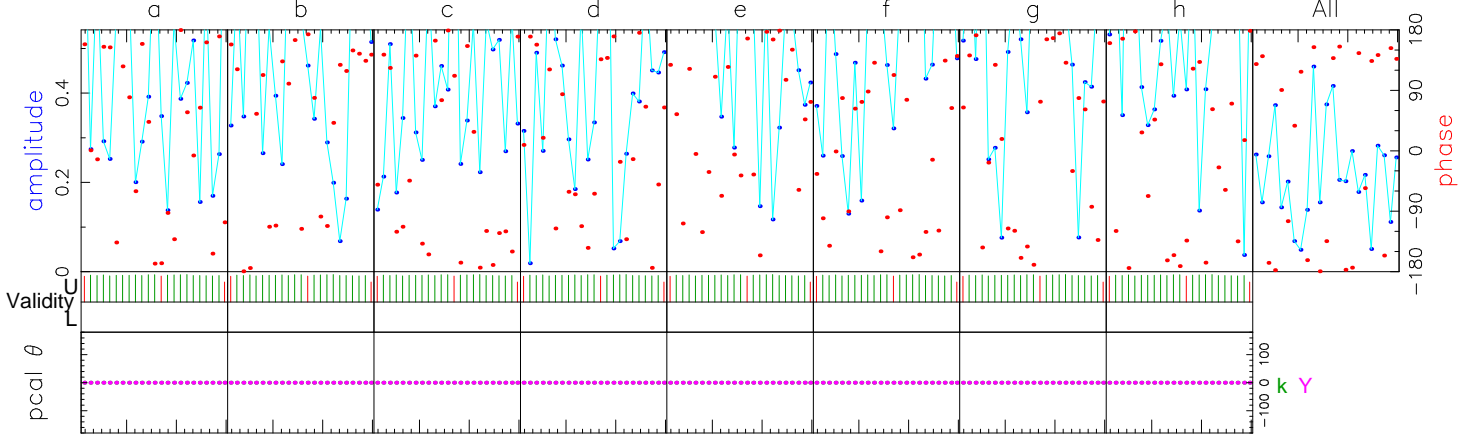


Fringe quality 0

SNR 6.2
 Int time 169.478
 Amp 0.181
 Phase 169.7
 PFD 5.8e-02
 Delays (us)
 SBD -0.995795
 MBD 0.002683
 Fringe rate (Hz)
 0.262927
 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
 2020:206:153453
 2020:014:135814
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

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

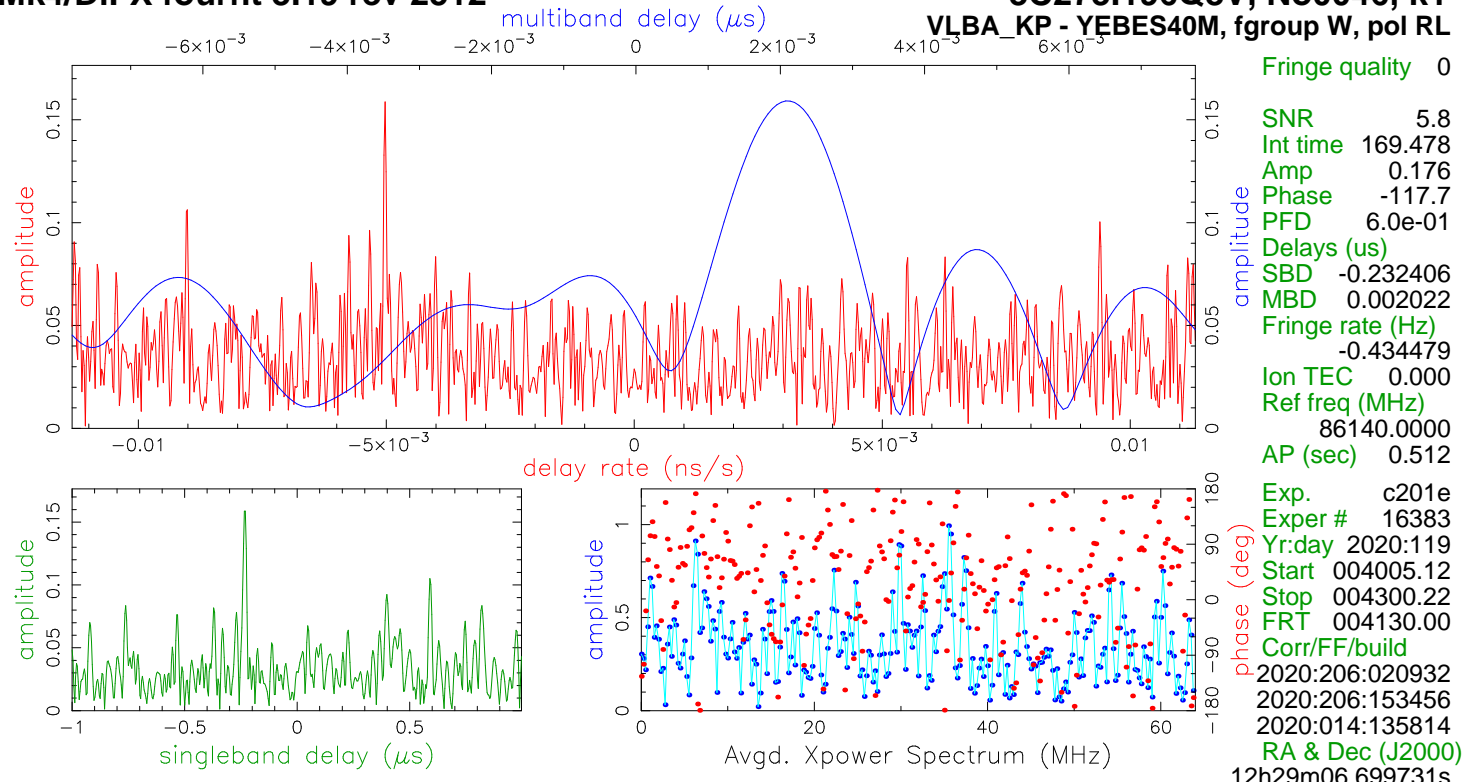


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	170.6	155.8	-174.6	149.6	113.3	171.7	176.6	-178.0	Phase	169.7
k	0.1	0.3	0.2	0.1	0.1	0.1	0.3	0.2	Ampl.	0.2
Y	267.8	432.1	483.4	189.0	224.0	331.7	445.8	1.5	Sbd box	2.1
k	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

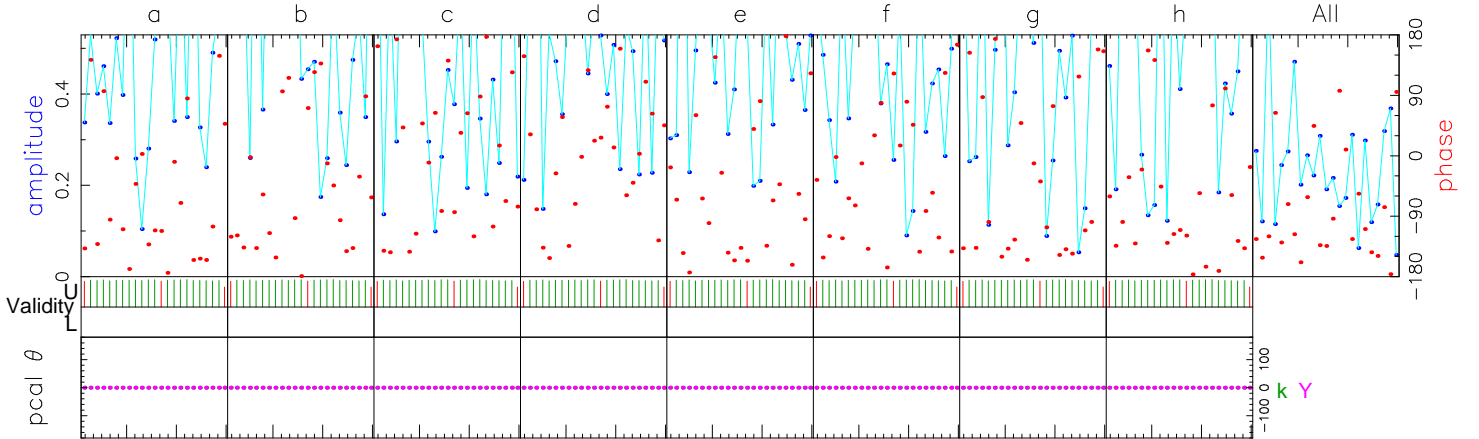
Group delay (usec)(sbd) -7.67816229824E+03 Apriori delay (usec) -7.67716498107E+03 Resid mbdelay (usec) 2.68283E-03 +/- 1.7E-04
 Sband delay (usec) -7.67816077607E+03 Apriori clock (usec) -1.2329794E+01 Resid sbdelay (usec) -9.95795E-01 +/- 1.4E-03
 Phase delay (usec) -7.67716497560E+03 Apriori clockrate (us/s) -2.1460000E-07 Resid phdelay (usec) 5.47104E-06 +/- 5.9E-07
 Delay rate (us/s) 1.95219201940E+00 Apriori rate (us/s) 1.95218896707E+00 Resid rate (us/s) 3.05232E-06 +/- 5.9E-09
 Total phase (deg) 0.7 Apriori accel (us/s/s) 4.02960520354E-05 Resid phase (deg) 169.7 +/- 18.4

RMS Theor. Amplitude 0.181 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 53.8 44.0 Search (1024X32) 0.173 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 67.4 76.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 26.5 26.0 Inc. seg. avg. 0.176 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 41.0 45.3 Inc. frq. avg. 0.157 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 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -11166.491 -953.502 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/kY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/kY.W.136.196Q8V

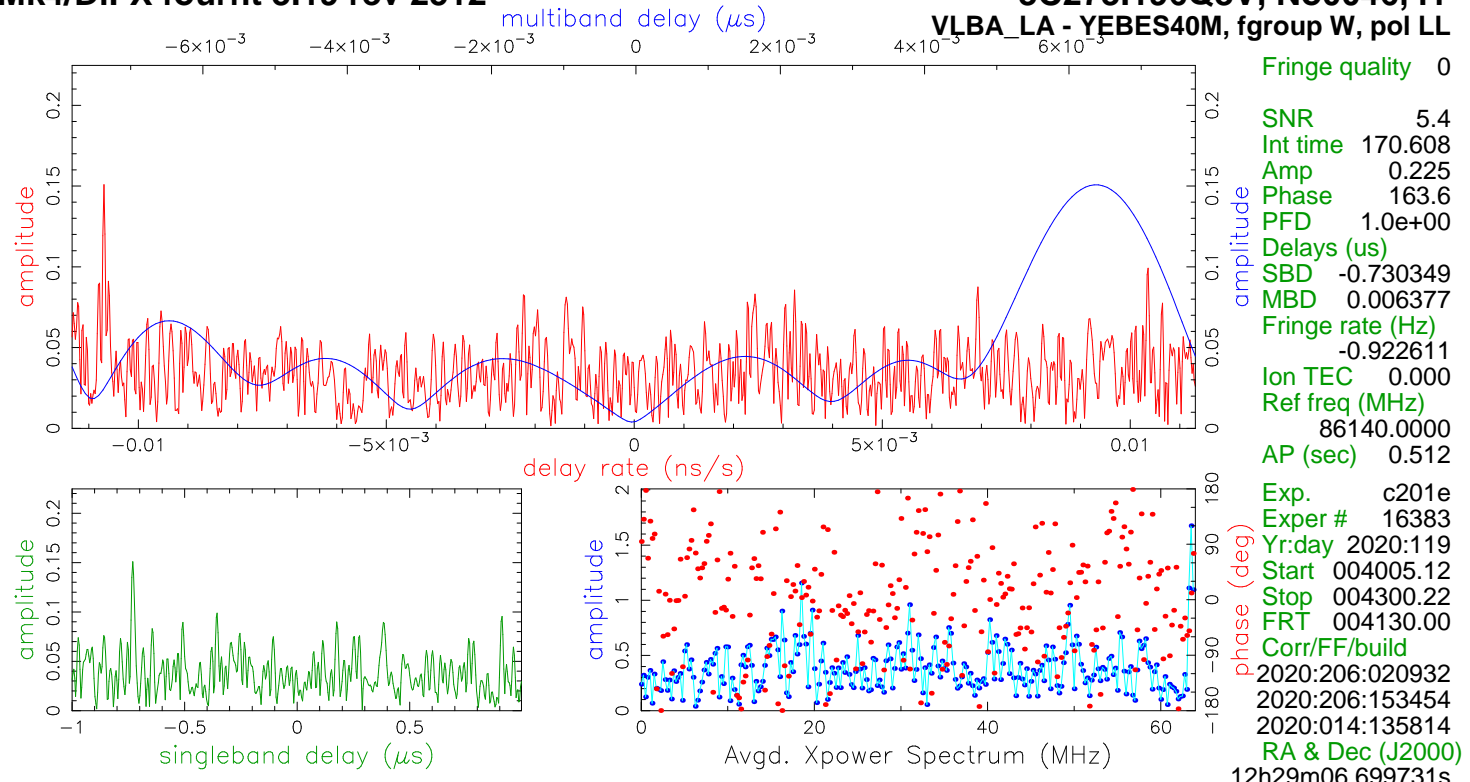


Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

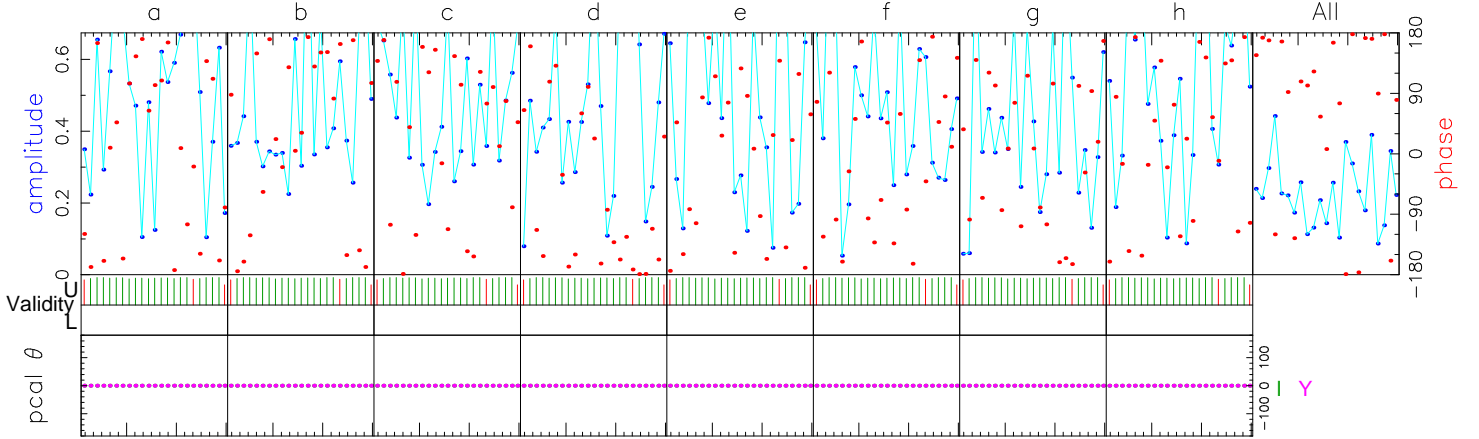


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-137.1	-119.6	-148.2	-18.5	-116.5	-102.0	-155.6	-100.1	Phase	-117.7
	0.2	0.3	0.1	0.1	0.2	0.2	0.2	0.3	Ampl.	0.2
	394.5	121.2	468.9	307.6	467.5	161.0	154.8	70.7	Sbd box	197.5
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.67739733414E+03		Apriori delay (usec)	-7.67716498107E+03	Resid mbdelay (usec)	2.02193E-03	+/-	1.9E-04		
Sband delay (usec)	-7.67739738732E+03		Apriori clock (usec)	0.157	Resid sbdelay (usec)	-2.32406E-01	+/-	1.5E-03		
Phase delay (usec)	-7.67716498486E+03		Apriori clockrate (us/s)	-2.1460000E-07	Resid phdelay (usec)	-3.79437E-06	+/-	6.4E-07		
Delay rate (us/s)	1.95218392320E+00		Apriori rate (us/s)	1.95218896707E+00	Resid rate (us/s)	-5.04387E-06	+/-	6.3E-09		
Total phase (deg)		-286.6	Apriori accel (us/s/s)	4.02960520354E-05	Resid phase (deg)	-117.7	+/-	19.8		

	RMS	Theor.	Amplitude	0.176 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	76.3	47.5	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	94.9	82.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	46.8	28.0	Inc. seg. avg.	0.197	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	38.9	48.9	Inc. frq. avg.	0.183	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., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

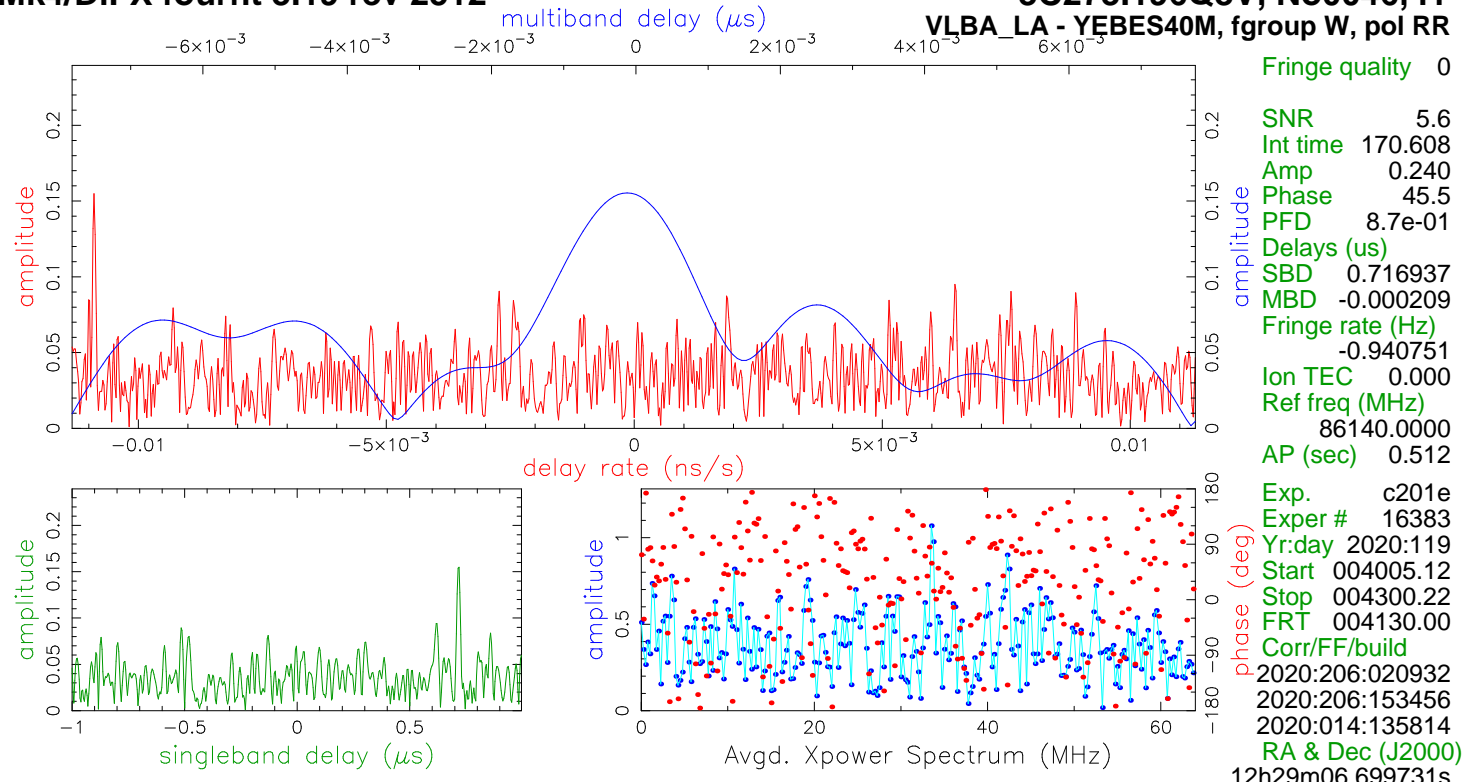


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	158.2	170.2	156.6	-178.6	142.6	136.0	139.3	177.6	Phase	163.6
	0.2	0.3	0.2	0.3	0.2	0.1	0.2	0.4	Ampl.	0.2
	275.1	68.7	244.6	431.2	249.5	191.7	6.7	511.2	Sbd box	70.0
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.36386981291E+03		Apriori delay (usec)		-6.36314181450E+03		Resid mbdelay (usec)		6.37659E-03	+/- 2.0E-04
Sband delay (usec)	-6.36387216300E+03		Apriori clock (usec)		-1.5724100E+01		Resid sbdelay (usec)		-7.30349E-01	+/- 1.6E-03
Phase delay (usec)	-6.36314180923E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		5.27555E-06	+/- 6.9E-07
Delay rate (us/s)	1.85646983266E+00		Apriori rate (us/s)		1.85648054326E+00		Resid rate (us/s)		-1.07106E-05	+/- 6.8E-09
Total phase (deg)			Apriori accel (us/s/s)		3.35030601218E-05		Resid phase (deg)		163.6	+/- 21.3

	RMS	Theor.	Amplitude	0.225 +/- 0.042	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.3	51.0	Search (1024X32)	0.147	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	81.6	89.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	20.1	30.1	Inc. seg. avg.	0.246	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	40.7	52.5	Inc. frq. avg.	0.205	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 102.1 el 19.4 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10621.411 -482.062 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/IY.W.146.196Q8V



Fringe quality 0

SNR 5.6

Int time 170.608

Amp 0.240

Phase 45.5

PFD 8.7e-01

Delays (us)

SBD 0.716937

MBD -0.000209

Fringe rate (Hz)

-0.940751

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

2020:206:153456

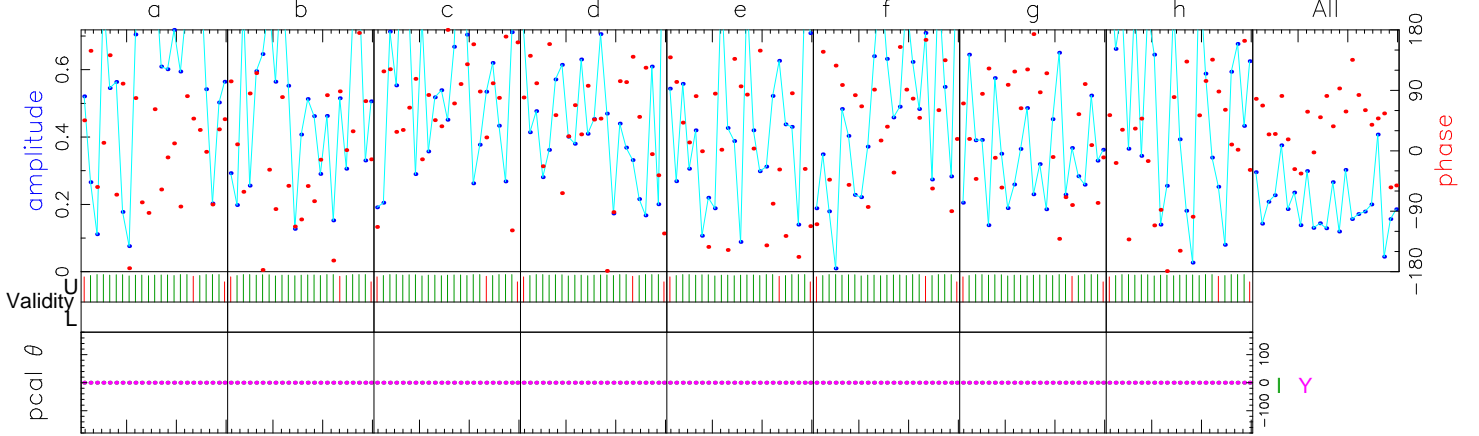
2020:014:135814

RA & Dec (J2000)

12h29m06.699731s

+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.36242327331E+03									
Sband delay (usec)	-6.36242487700E+03									
Phase delay (usec)	-6.36314181304E+03									
Delay rate (us/s)	1.85646962207E+00									
Total phase (deg)			-279.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										

ph/seg (deg) 46.6 48.7 Search (1024X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 61.5 85.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 33.0 28.7 Inc. seg. avg. 0.228 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 51.7 50.1 Inc. frq. avg. 0.239 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

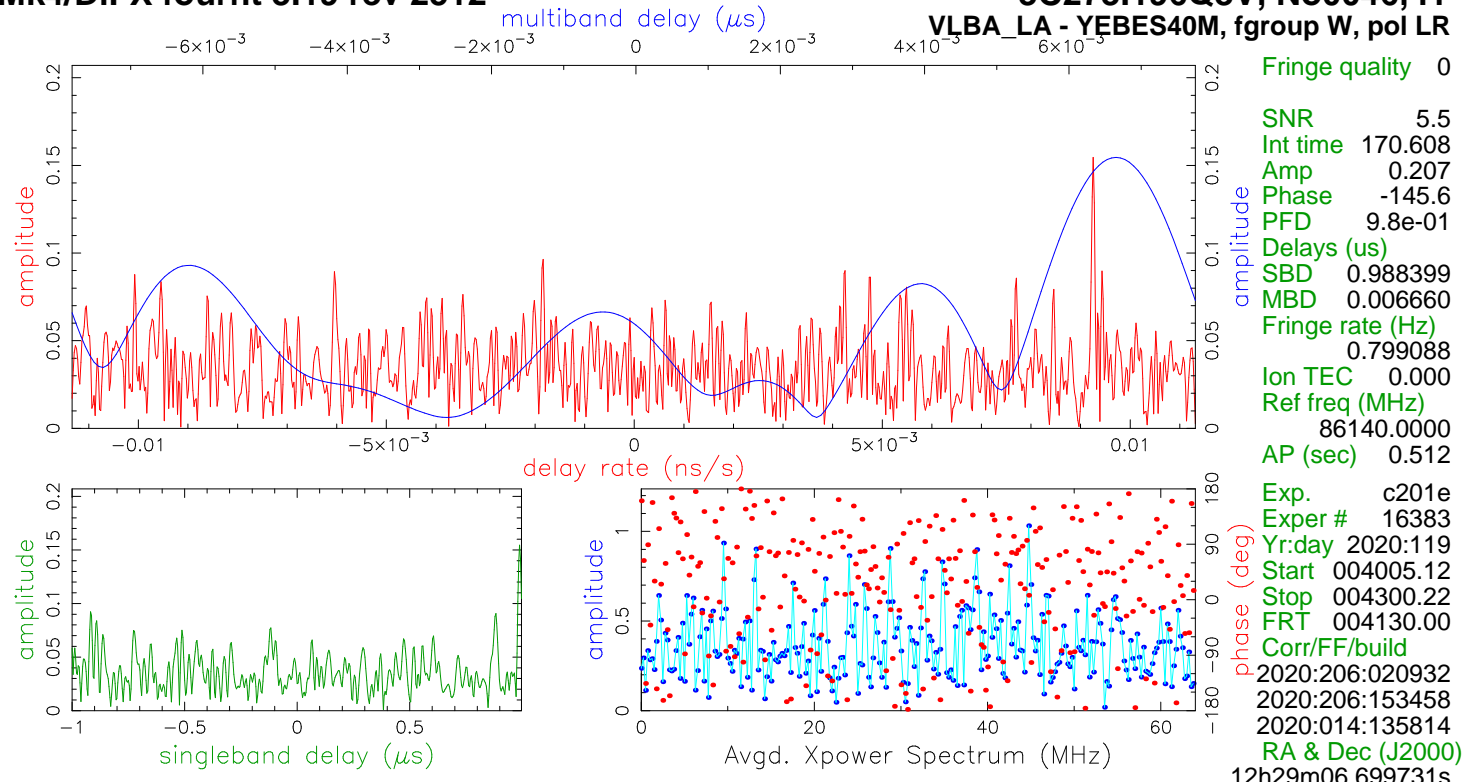
I: az 102.1 el 19.4 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10621.411 -482.062 ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/IY.W.157.196Q8V

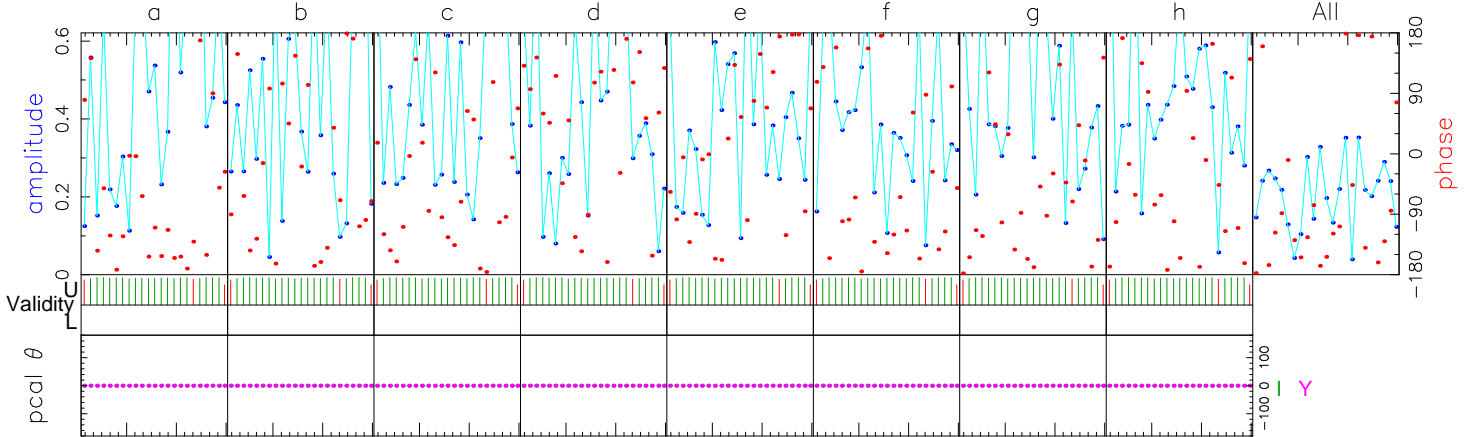
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, IY

VLBA_LA - YEBES40M, fgroup W, pol LR



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

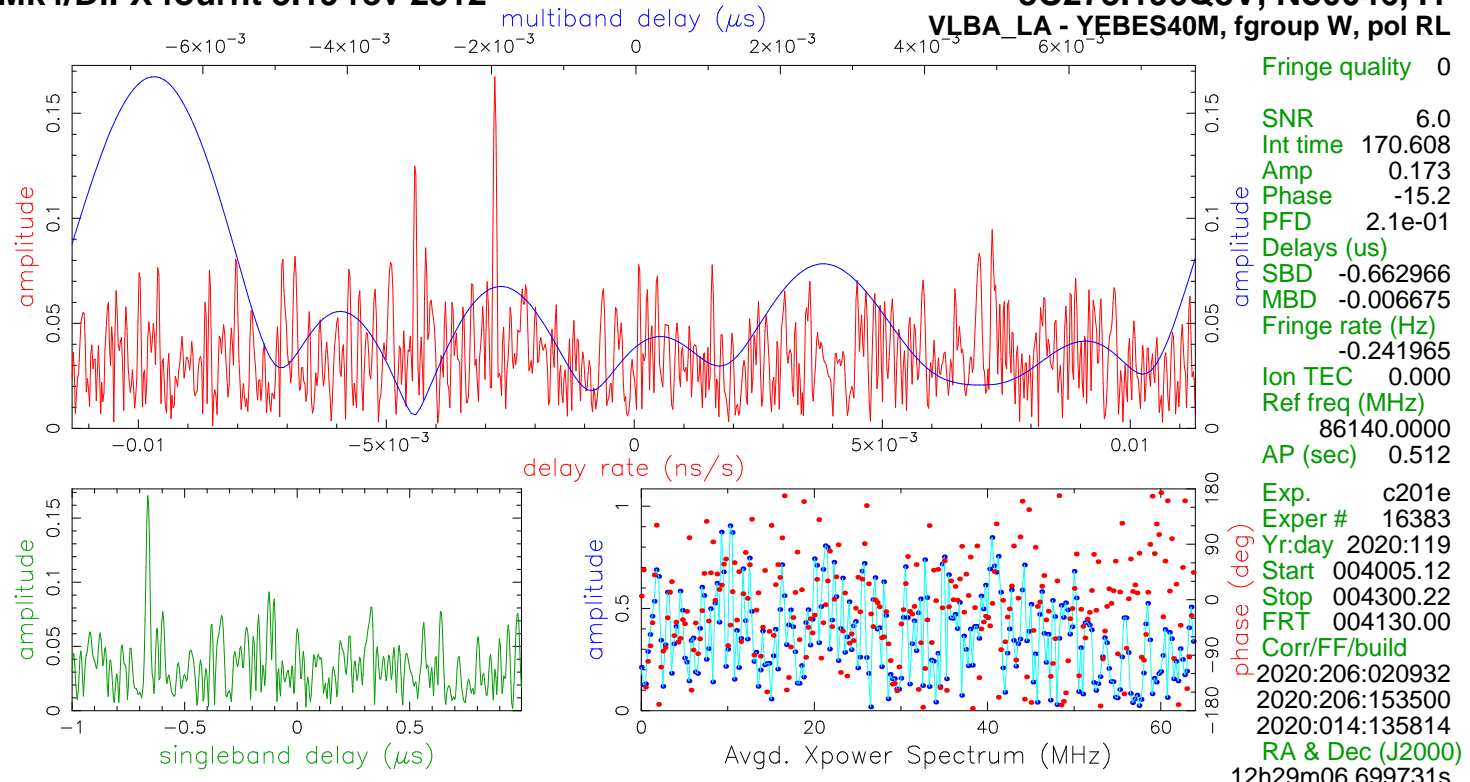


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.4	-144.7	-109.4	137.0	-161.6	-151.9	-120.9	-143.5	Phase	-145.6
	0.3	0.3	0.2	0.3	0.1	0.3	0.3	0.2	Ampl.	0.2
	507.9	183.4	393.8	454.1	133.1	173.6	370.2	511.5	Sbd box	510.0
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.36215077998E+03		Apriori delay (usec)		-6.36314181450E+03		Resid mbdelay (usec)		6.65952E-03	+/- 2.0E-04
Sband delay (usec)	-6.36215341550E+03		Apriori clock (usec)		-1.5724100E+01		Resid sbdelay (usec)		9.88399E-01	+/- 1.6E-03
Phase delay (usec)	-6.36314181920E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-4.69582E-06	+/- 6.7E-07
Delay rate (us/s)	1.85648981988E+00		Apriori rate (us/s)		1.85648054326E+00		Resid rate (us/s)		9.27662E-06	+/- 6.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.35030601218E-05		Resid phase (deg)		-145.6	+/- 20.8

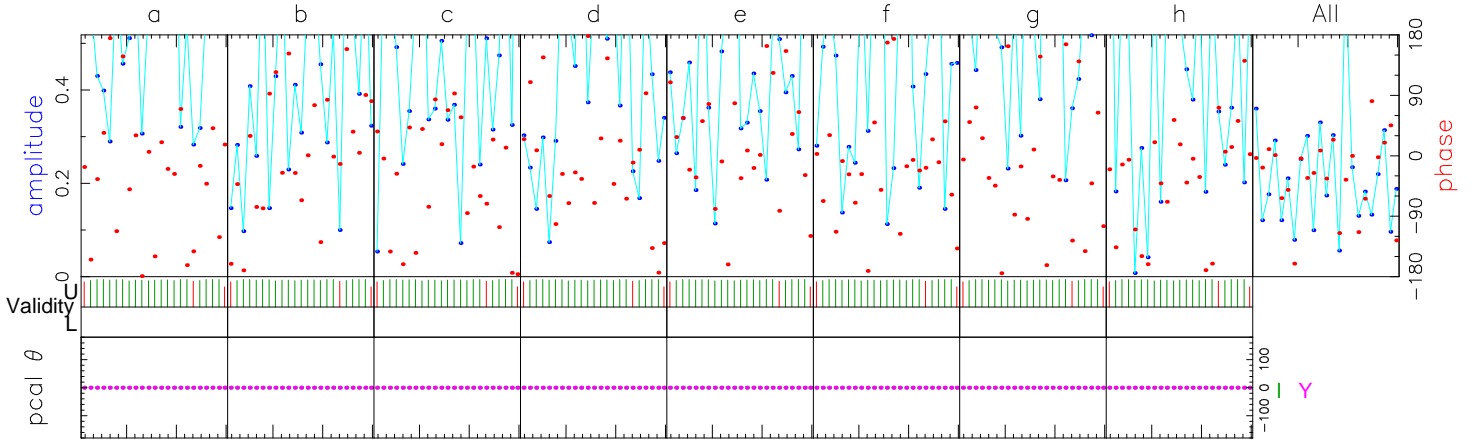
	RMS	Theor.	Amplitude	0.207 +/- 0.038	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	54.8	49.8	Search (1024X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.4	86.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	37.4	29.4	Inc. seg. avg.	0.203	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	36.9	51.2	Inc. frq. avg.	0.214	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 102.1 el 19.4 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10621.411 -482.062 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/IY.W.169.196Q8V



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
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.36380473944E+03	Apriori delay (usec)	-6.36314181450E+03	Resid mbdelay (usec)	-6.67494E-03	+/-	1.8E-04
Sband delay (usec)	-6.36380478050E+03	Apriori clock (usec)	-1.5724100E+01	Resid sbdelay (usec)	-6.62966E-01	+/-	1.4E-03
Phase delay (usec)	-6.36314181499E+03	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-4.88762E-07	+/-	6.1E-07
Delay rate (us/s)	1.85647773428E+00	Apriori rate (us/s)	1.85648054326E+00	Resid rate (us/s)	-2.80898E-06	+/-	6.1E-09
Total phase (deg)	-339.6	Apriori accel (us/s/s)	3.35030601218E-05	Resid phase (deg)	-15.2	+/-	19.0

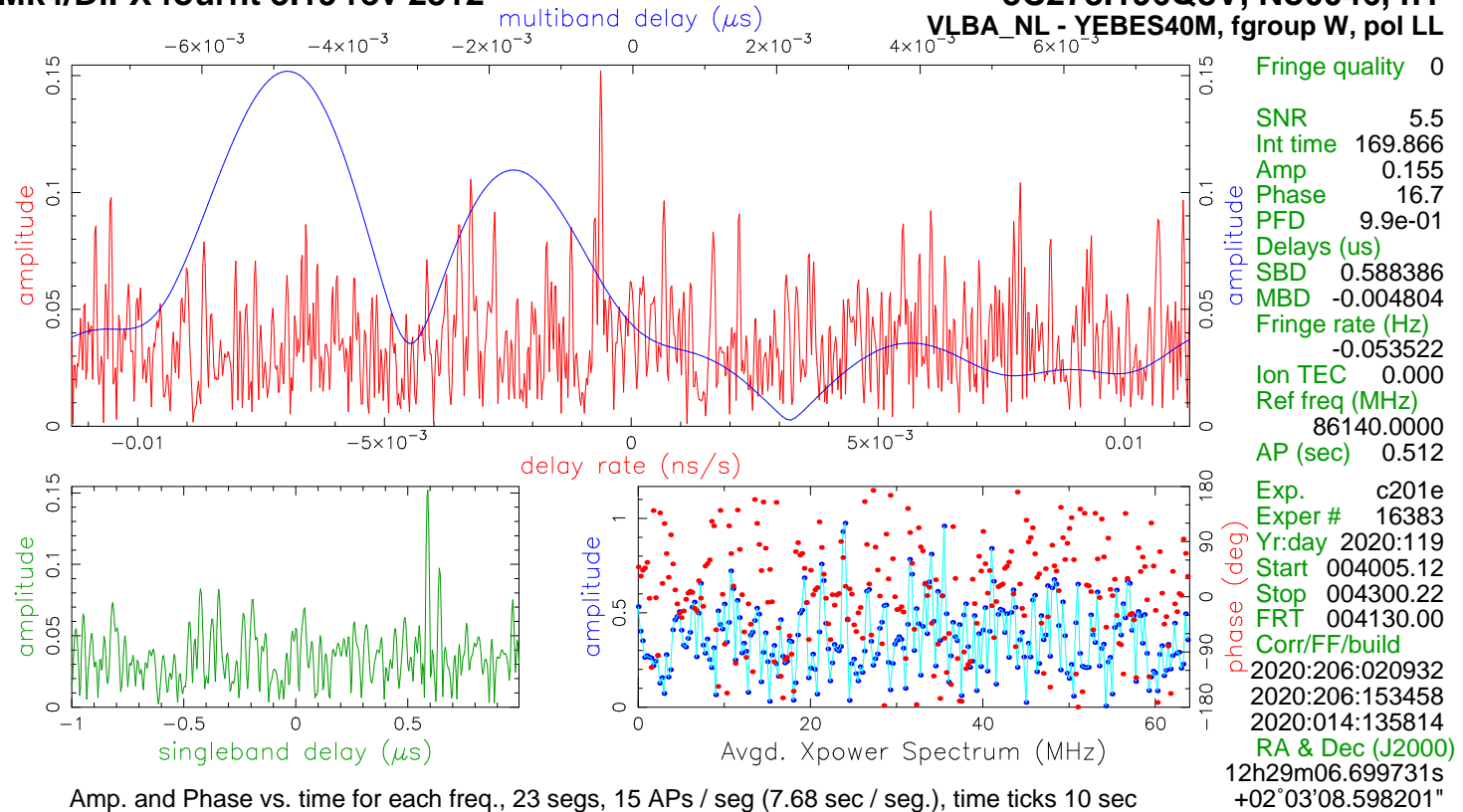
ph/seg (deg)	57.5	Theor.	45.7	Amplitude	0.173 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	81.1		79.7	Search (1024X32)	0.165	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	29.7		26.9	Inc. seg. avg.	0.170	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	36.6		47.0	Inc. frq. avg.	0.169	Data rate (Mb/s):	2048							

I: az 102.1 el 19.4 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10621.411 -482.062 simultaneous interpolator

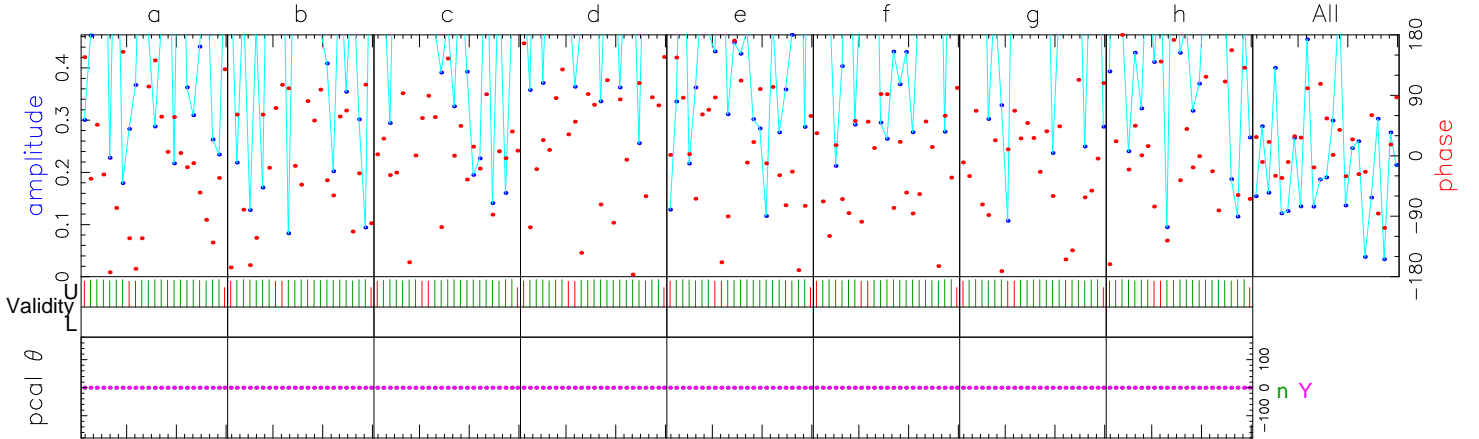
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/IY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/IY.W.183.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, nY
VLBA_NL - 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
	-28.8	10.1	27.4	70.9	80.6	-15.4	8.1	8.8	Phase	16.7
	0.1	0.1	0.3	0.2	0.1	0.2	0.3	0.1	Ampl.	0.2
	208.2	34.4	407.9	118.8	299.7	441.5	406.6	149.7	Sbd box	407.6
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.31462773810E+03		Apriori delay (usec)		-3.31521668454E+03		Resid mbdelay (usec)		-4.80356E-03	+/- 2.0E-04
Sband delay (usec)	-3.31462829879E+03		Apriori clock (usec)		2.0345297E+01		Resid sbdelay (usec)		5.88386E-01	+/- 1.6E-03
Phase delay (usec)	-3.31521668400E+03		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		5.39747E-07	+/- 6.7E-07
Delay rate (us/s)	1.61338368563E+00		Apriori rate (us/s)		1.61338430697E+00		Resid rate (us/s)		-6.21336E-07	+/- 6.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.77991939282E-05		Resid phase (deg)		16.7	+/- 20.8

	RMS	Theor.	Amplitude	0.155 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	52.2	50.0	Search (1024X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	90.0	87.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.7	29.5	Inc. seg. avg.	0.161	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	48.9	51.4	Inc. frq. avg.	0.159	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

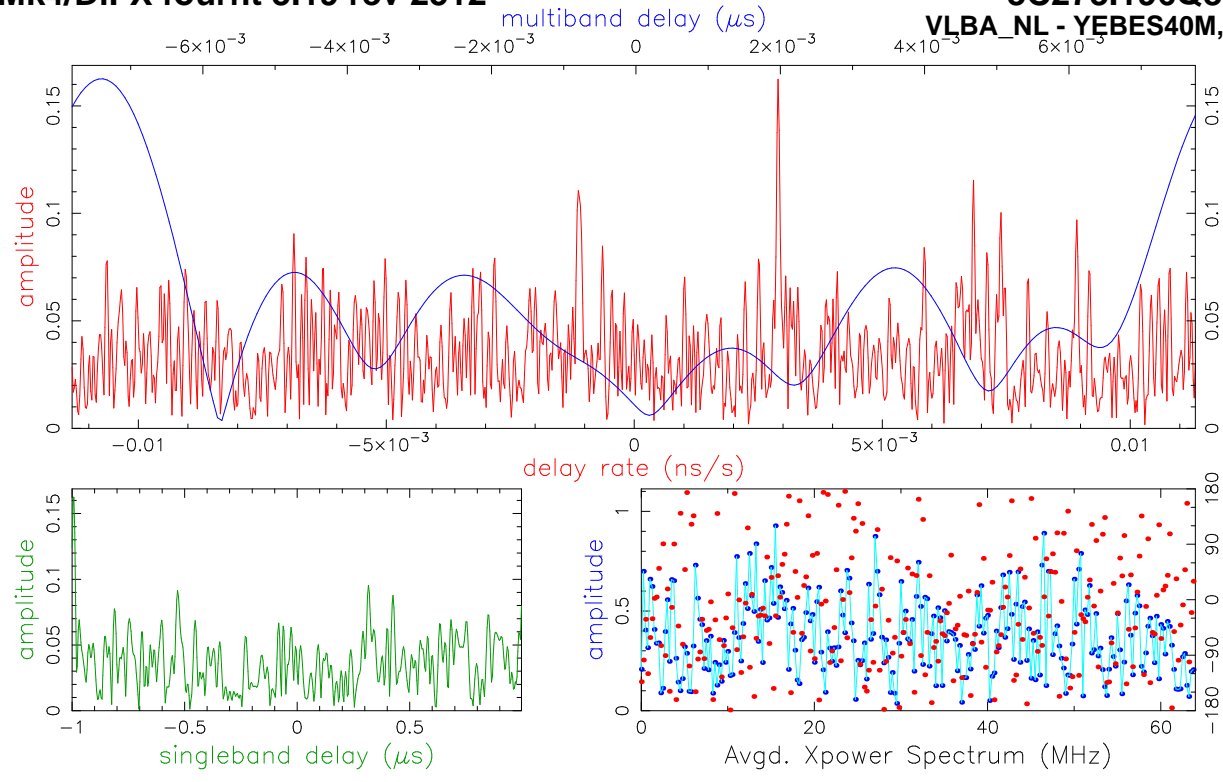
n: az 115.5 el 28.3 pa -42.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -9236.237 196.261 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/nY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/nY.W.170.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

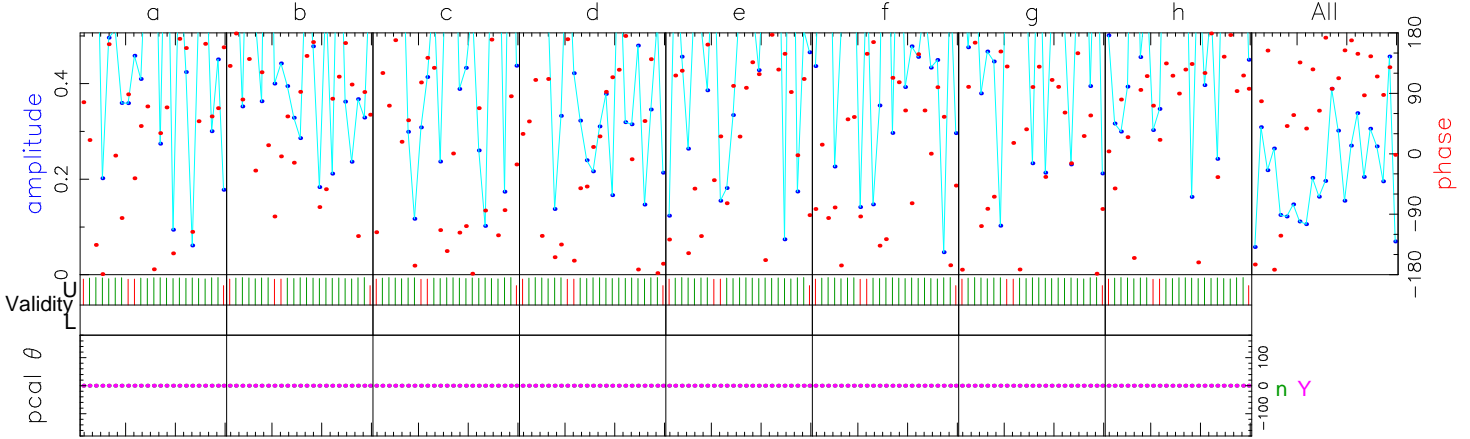
3C273.196Q8V, No0046, nY

VLBA_NL - YEBES40M, fgroup W, pol RR



Fringe quality 0
 SNR 5.9
 Int time 169.867
 Amp 0.169
 Phase 123.3
 PFD 4.5e-01
 Delays (us)
 SBD -0.993492
 MBD -0.007449
 Fringe rate (Hz) 0.250575
 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
 2020:206:153500
 2020:014:135814
 RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

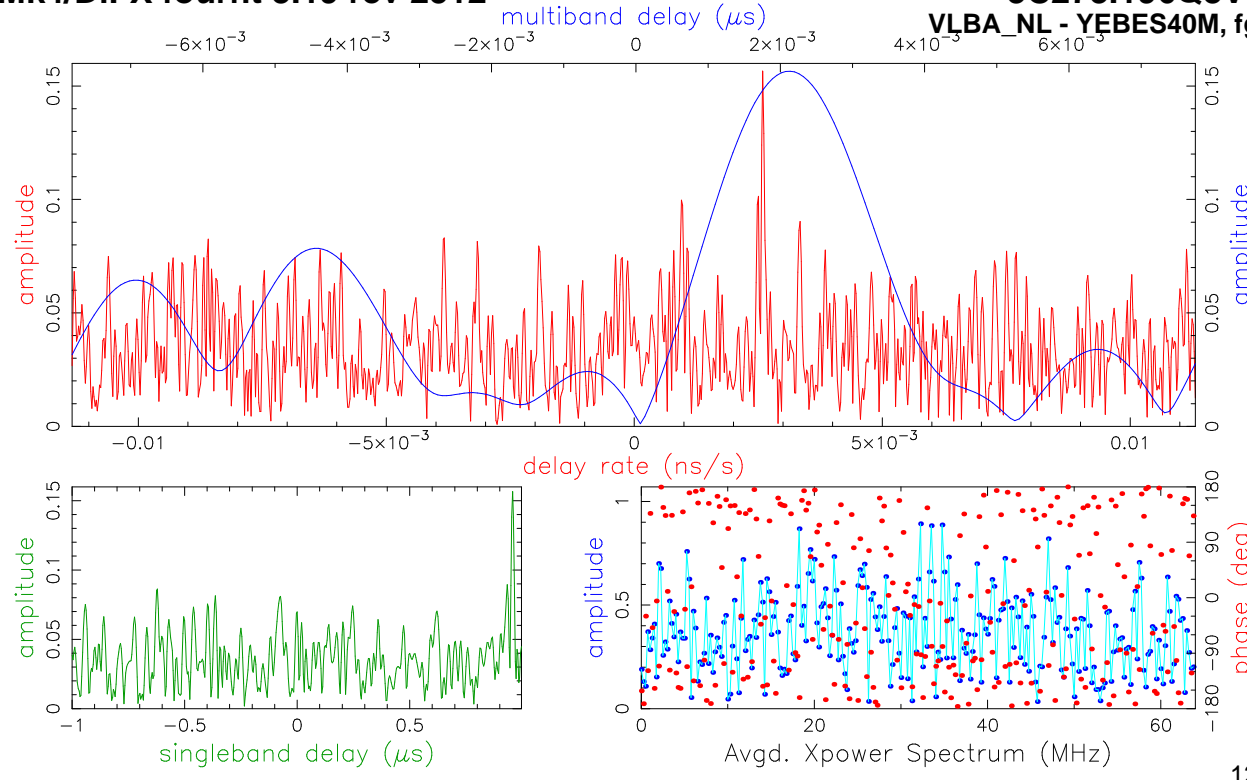
Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.31620850820E+03				-3.31521668454E+03					
Sband delay (usec)	-3.31621017629E+03				2.0345297E+01					
Phase delay (usec)	-3.31521668056E+03				1.1399998E-07					
Delay rate (us/s)	1.61338721589E+00				1.61338430697E+00					
Total phase (deg)			49.2		1.77991939282E-05					
Apriori delay (usec)									-7.44866E-03	+/- 1.9E-04
Apriori clock (usec)									-9.93492E-01	+/- 1.5E-03
Apriori clockrate (us/s)									3.97663E-06	+/- 6.3E-07
Apriori rate (us/s)									2.90893E-06	+/- 6.2E-09
Apriori accel (us/s/s)									123.3	+/- 19.6
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

	RMS	Theor.	Amplitude	0.169 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	54.9	46.9	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	69.5	81.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	22.1	27.7	Inc. seg. avg.	0.169	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	51.3	48.3	Inc. frq. avg.	0.156	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

n: az 115.5 el 28.3 pa -42.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -9236.237 196.261 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/nY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/nY.W.181.196Q8V

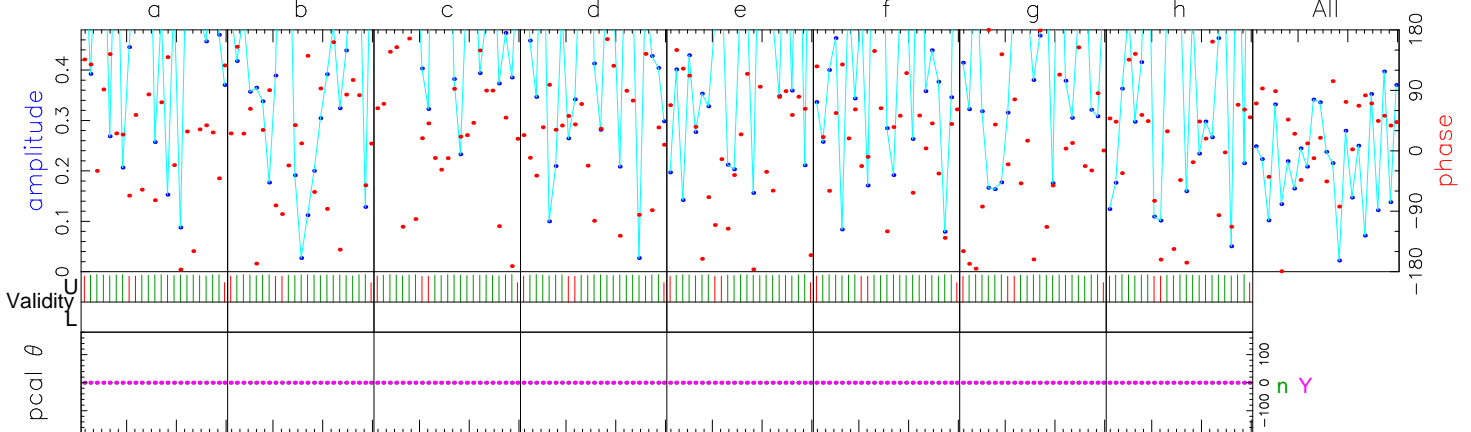


Fringe quality 0

SNR 5.6
Int time 169.866
Amp 0.160
Phase 43.8
PFD 9.5e-01
Delays (us)
SBD 0.956991
MBD 0.002121
Fringe rate (Hz) 0.223650
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
2020:206:153502
2020:014:135814
RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

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

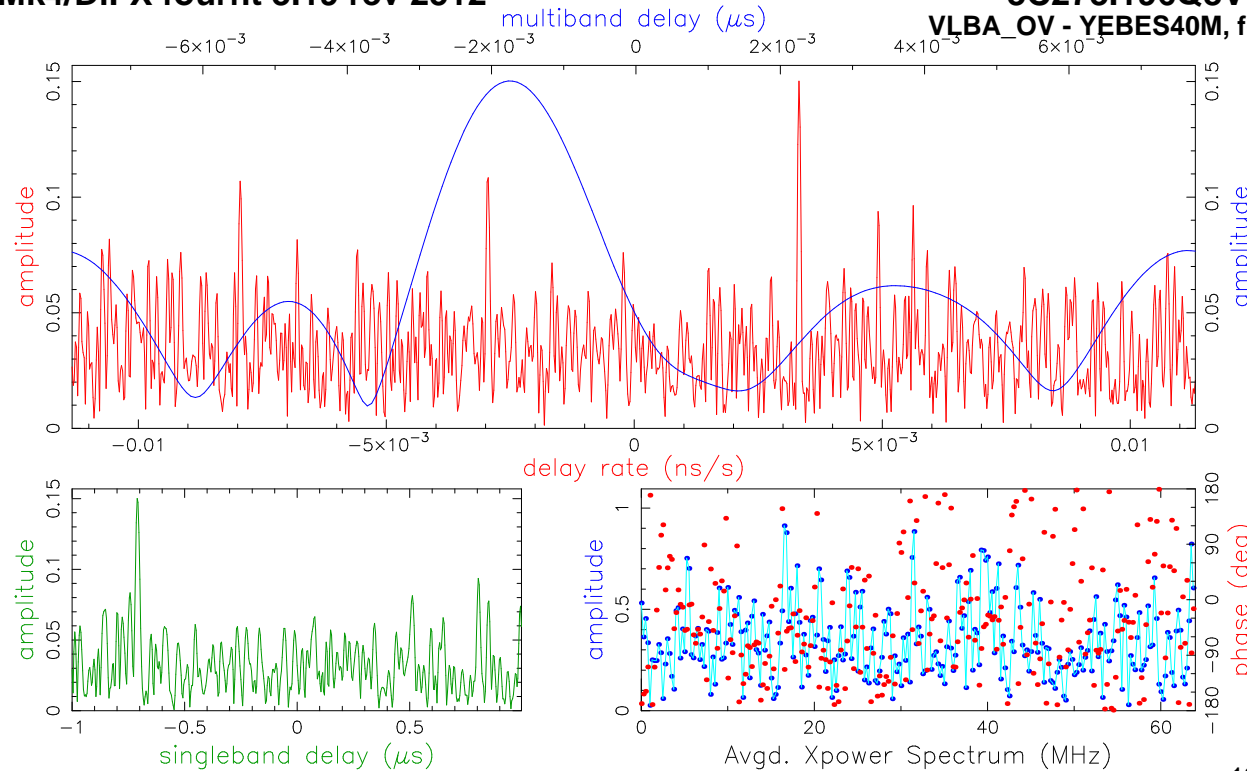


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.31426143821E+03								2.12133E-03	+/- 1.9E-04
Sband delay (usec)	-3.31425969379E+03								9.56991E-01	+/- 1.5E-03
Phase delay (usec)	-3.31521668312E+03								1.41250E-06	+/- 6.6E-07
Delay rate (us/s)	1.61338690332E+00								2.59635E-06	+/- 6.6E-09
Total phase (deg)			-30.3						43.8	+/- 20.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 57.9 49.3 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.7 86.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.9 29.0 Inc. seg. avg. 0.166 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.4 50.7 Inc. frq. avg. 0.146 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 115.5 el 28.3 pa -42.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -9236.237 196.261 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/nY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/nY.W.193.196Q8V

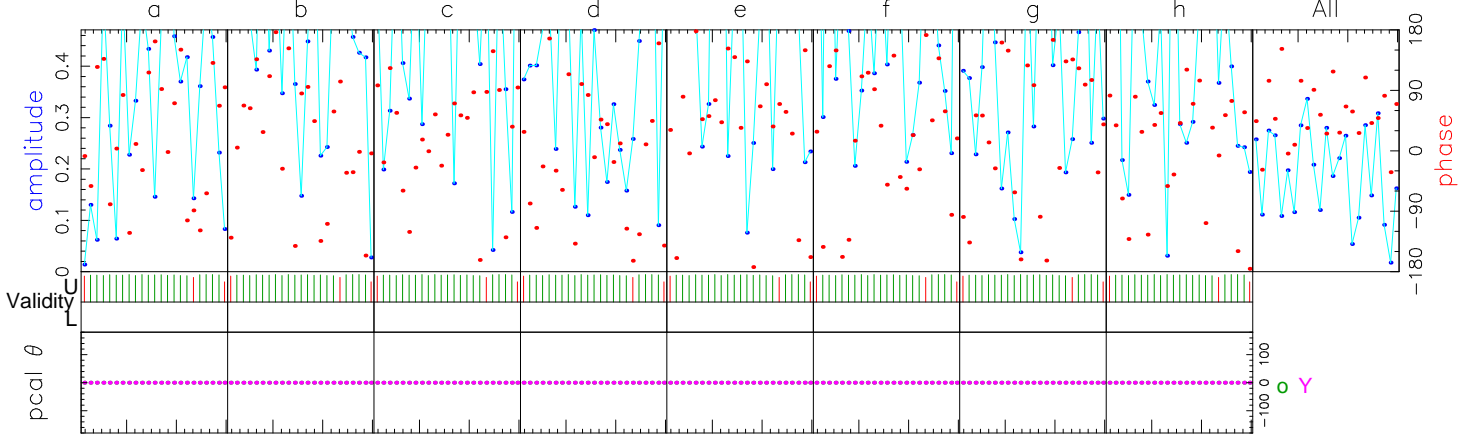
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, oY
VLBA_OV - YEBES40M, fgroup W, pol LL



Fringe quality 0
SNR 5.4
Int time 170.535
Amp 0.157
Phase 58.7
PFD 1.0e+00
Delays (us)
SBD -0.709527
MBD -0.001784
Fringe rate (Hz) 0.285876
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
2020:206:153501
2020:014:135814
RA & Dec (J2000) 12h29m06.699731s +02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) -9.84941377948E+03 Apriori delay (usec) -9.84870887004E+03 Resid mbdelay (usec) -1.78443E-03 +/- 2.0E-04
Sband delay (usec) -9.84941839754E+03 Apriori clock (usec) 8.1256180E+08 Resid sbdelay (usec) -7.09527E-01 +/- 1.6E-03
Phase delay (usec) -9.84870886815E+03 Apriori clockrate (us/s) -1.8999993E-08 Resid phdelay (usec) 1.89290E-06 +/- 6.8E-07
Delay rate (us/s) 1.91071904369E+00 Apriori rate (us/s) 1.91071572496E+00 Resid rate (us/s) 3.31873E-06 +/- 6.8E-09
Total phase (deg) 35.1 Apriori accel (us/s/s) 5.22357089614E-05 Resid phase (deg) 58.7 +/- 21.2

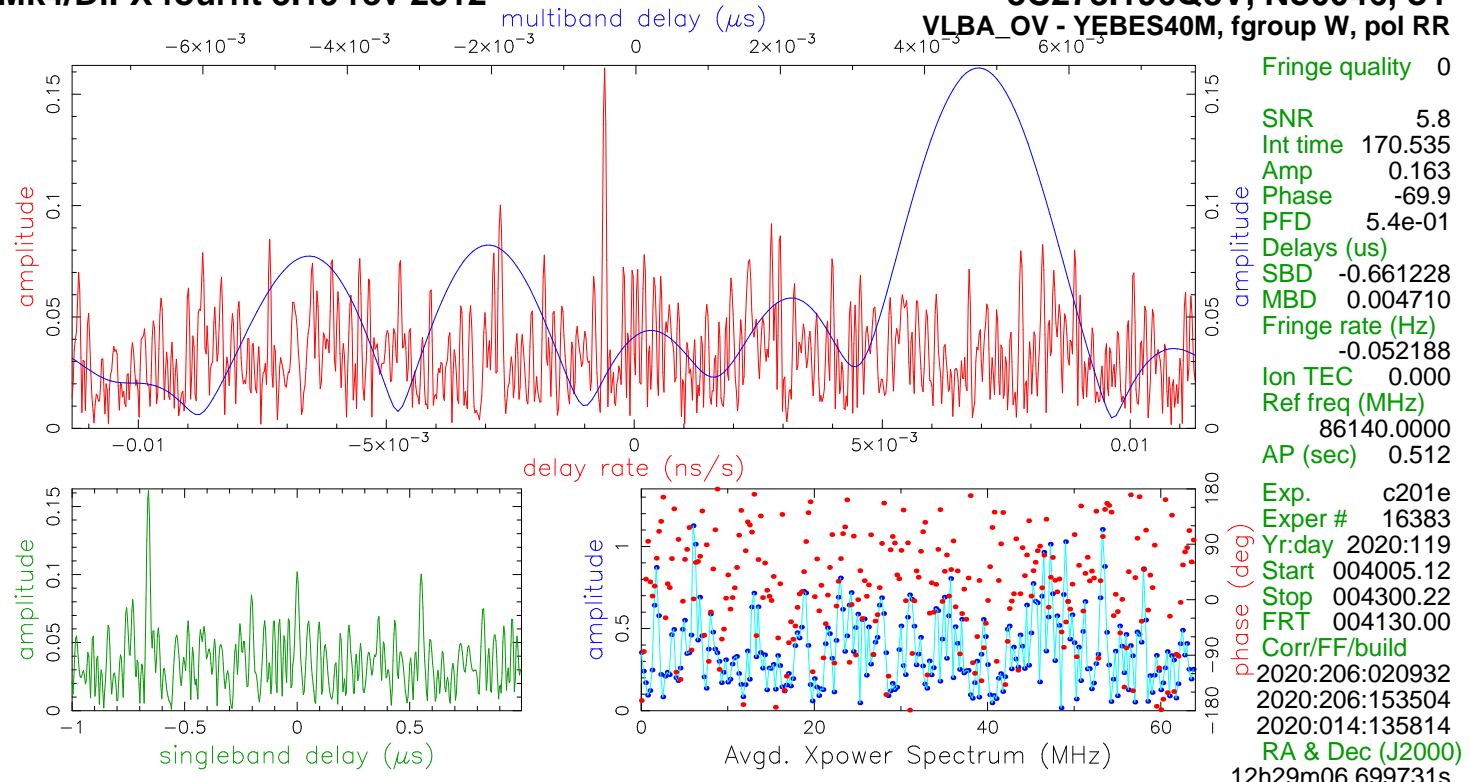
RMS Theor. Amplitude 0.157 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 45.6 50.8 Search (1024X32) 0.149 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 63.8 88.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 37.4 30.0 Inc. seg. avg. 0.142 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 62.0 52.3 Inc. frq. avg. 0.149 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 94.9 el 9.6 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10922.501 -251.688 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/oY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/oY.W.187.196Q8V

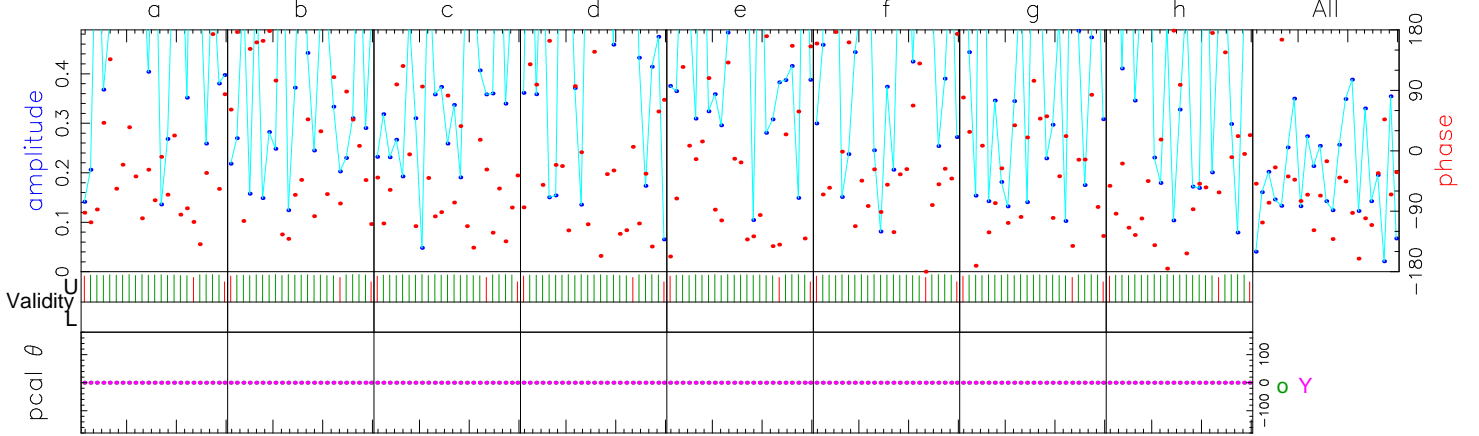
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, oY

VLBA_OV - YEBES40M, fgroup W, pol RR



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
	-65.6	-67.8	-70.7	-88.7	-102.2	-70.7	-3.3	-76.9		-69.9
	0.3	0.1	0.2	0.2	0.1	0.2	0.1	0.2	Ampl.	0.2
	1.4	502.0	65.8	217.9	395.9	283.0	270.8	479.2	Sbd box	87.7
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

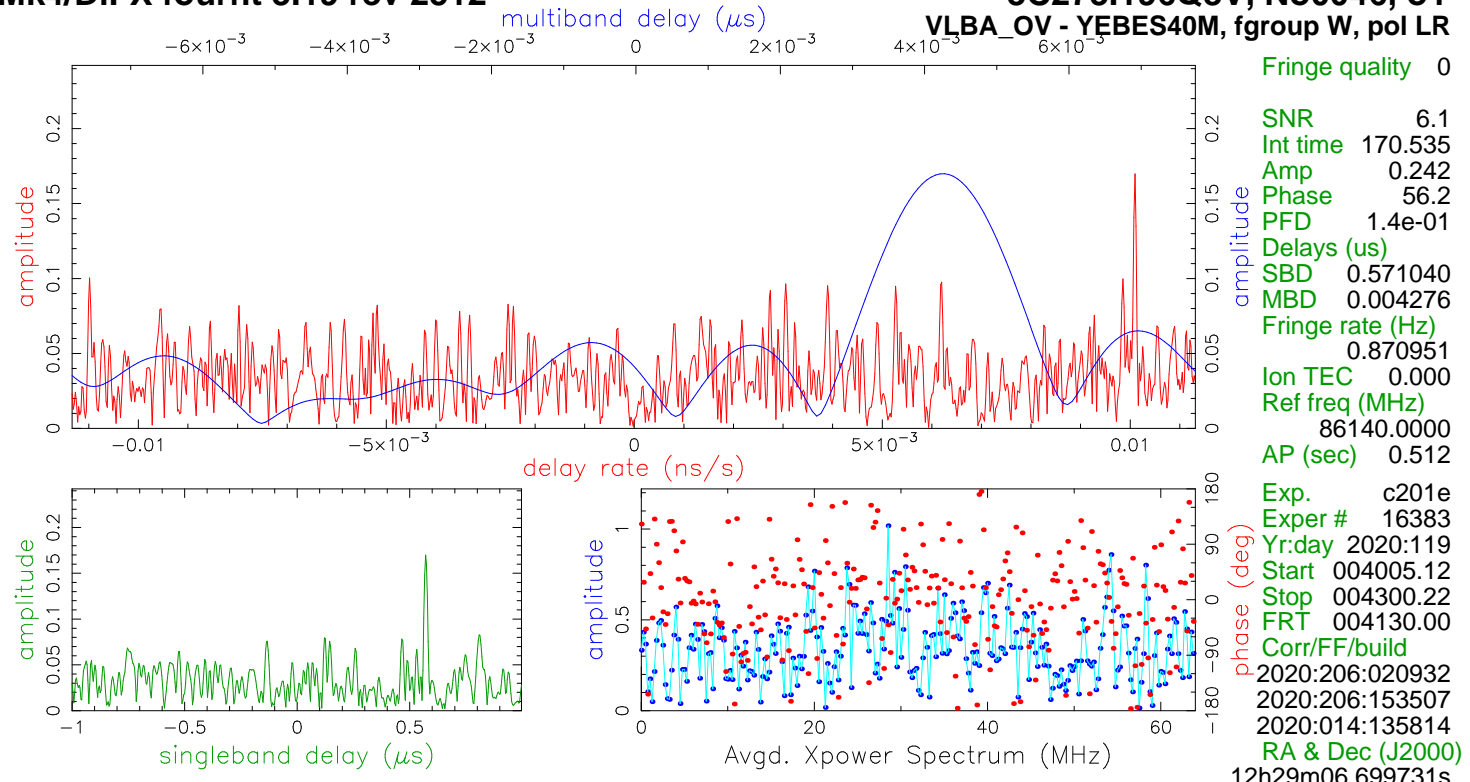
Group delay (usec)(sbd)	-9.84937603473E+03	Apriori delay (usec)	-9.84870887004E+03	Resid mbdelay (usec)	4.71031E-03	+/-	1.9E-04
Sband delay (usec)	-9.84937009804E+03	Apriori clock (usec)	8.1256180E+00	Resid sbdelay (usec)	-6.61228E-01	+/-	1.5E-03
Phase delay (usec)	-9.84870887230E+03	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	-2.25418E-06	+/-	6.4E-07
Delay rate (us/s)	1.91071511910E+00	Apriori rate (us/s)	1.91071572496E+00	Resid rate (us/s)	-6.05855E-07	+/-	6.3E-09
Total phase (deg)	-93.5	Apriori accel (us/s/s)	5.22357089614E-05	Resid phase (deg)	-69.9	+/-	19.7

ph/seg (deg)	51.2	Theor.	47.3	Amplitude	0.163 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	67.3	Search (1024X32)	0.157	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	31.4	Inc. seg. avg.	0.152	Inc. frq. avg.	0.156	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	42.0	Inc. frq. avg.	0.156			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	

o: az 94.9 el 9.6 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10922.501 -251.688 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/oY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/oY.W.208.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, oY
VLBA_OV - YEYES40M, fgroup W, pol LR



Fringe quality 0

SNR 6.1

Int time 170.535

Amp 0.242

Phase 56.2

PFD 1.4e-01

Delays (us)

SBD 0.571040

MBD 0.004276

Fringe rate (Hz)

0.870951

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

2020:206:153507

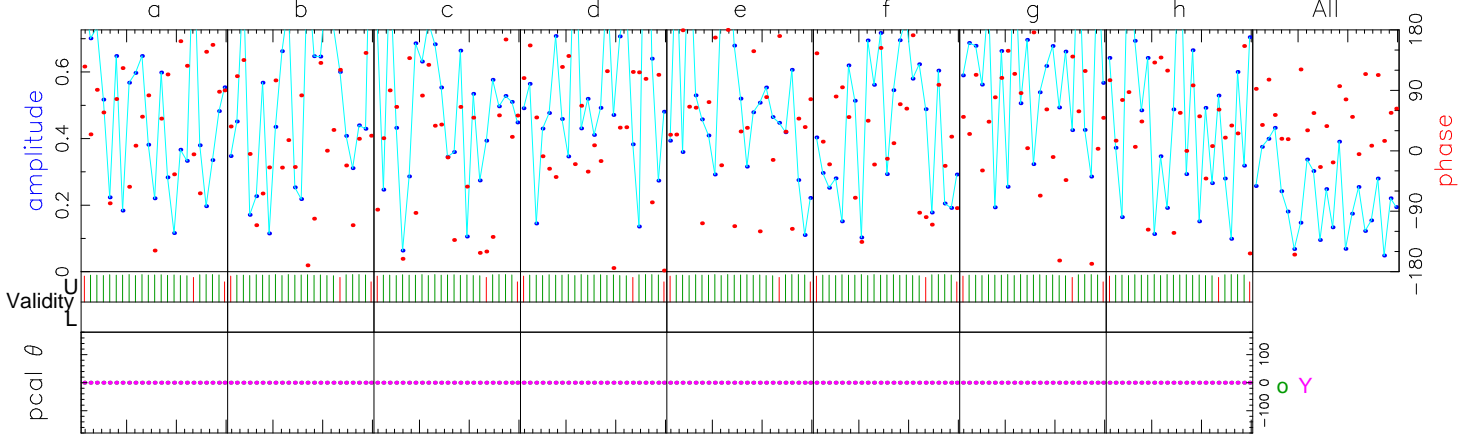
2020:014:135814

RA & Dec (J2000)

12h29m06.699731s

+02°03'08.598201"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-9.84814209401E+03	Apriori delay (usec)	-9.84870887004E+03	Resid mbdelay (usec)	4.27604E-03	+/-	1.8E-04
Sband delay (usec)	-9.84813783004E+03	Apriori clock (usec)	8.1256180E+08	Resid sbdelay (usec)	5.71040E-01	+/-	1.4E-03
Phase delay (usec)	-9.84870886823E+03	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	1.81369E-06	+/-	6.1E-07
Delay rate (us/s)	1.91072583584E+00	Apriori rate (us/s)	1.91071572496E+00	Resid rate (us/s)	1.01109E-05	+/-	6.0E-09
Total phase (deg)		Apriori accel (us/s/s)	5.22357089614E-05	Resid phase (deg)	56.2	+/-	18.8

ph/seg (deg)	52.6	Theor.	45.2	Amplitude	0.242 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.1		78.8	Search (1024X32)	0.163	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	12.5		26.6	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	33.7		46.5	Inc. seg. avg.	0.242	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.221	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

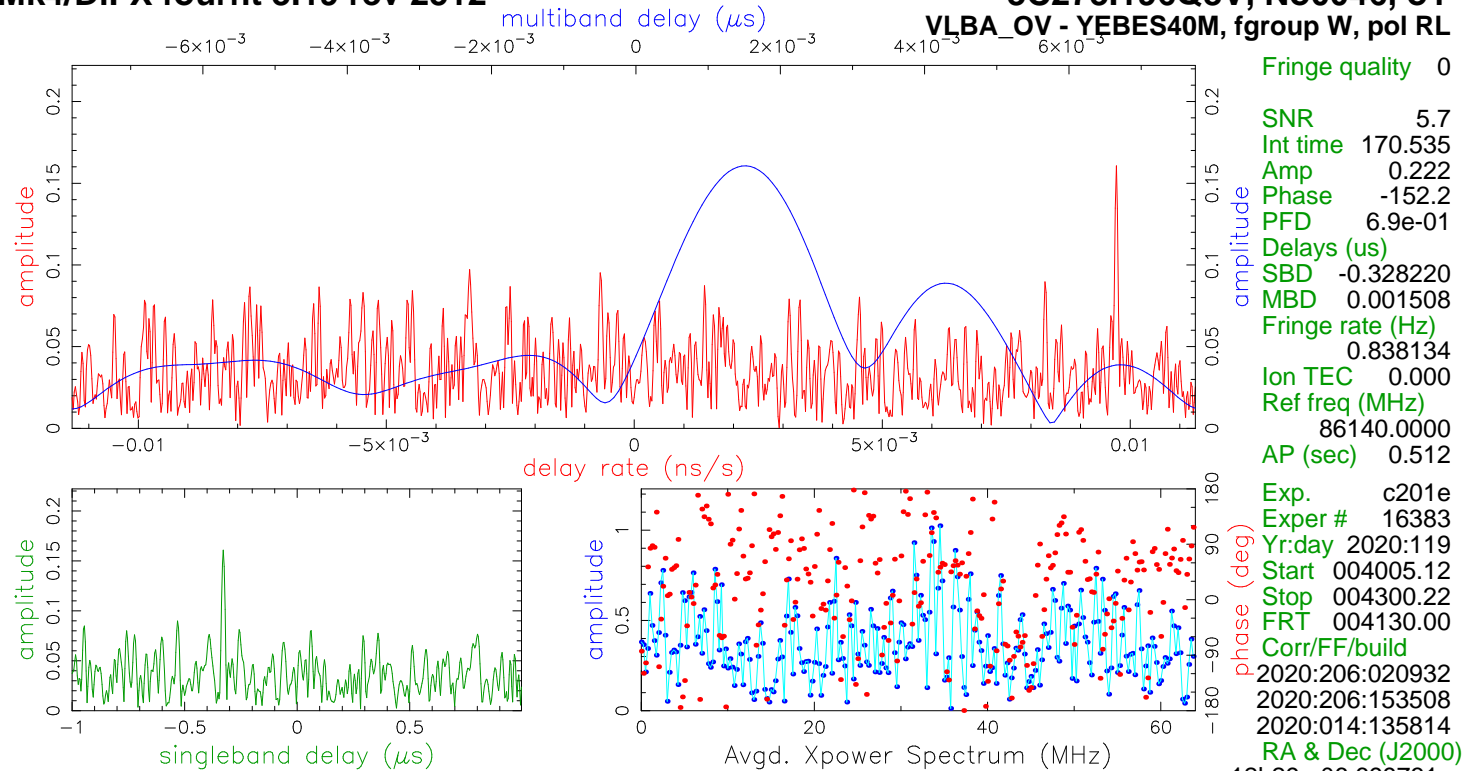
o: az 94.9 el 9.6 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10922.501 -251.688 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/oY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/oY.W.224.196Q8V

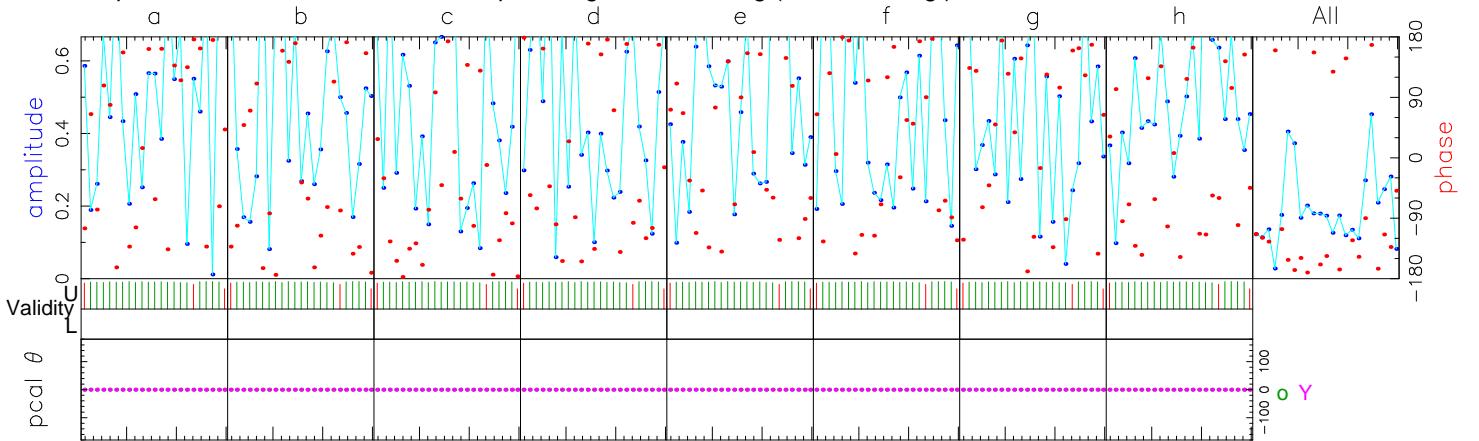
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, oY

VLBA_OV - YEYES40M, 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



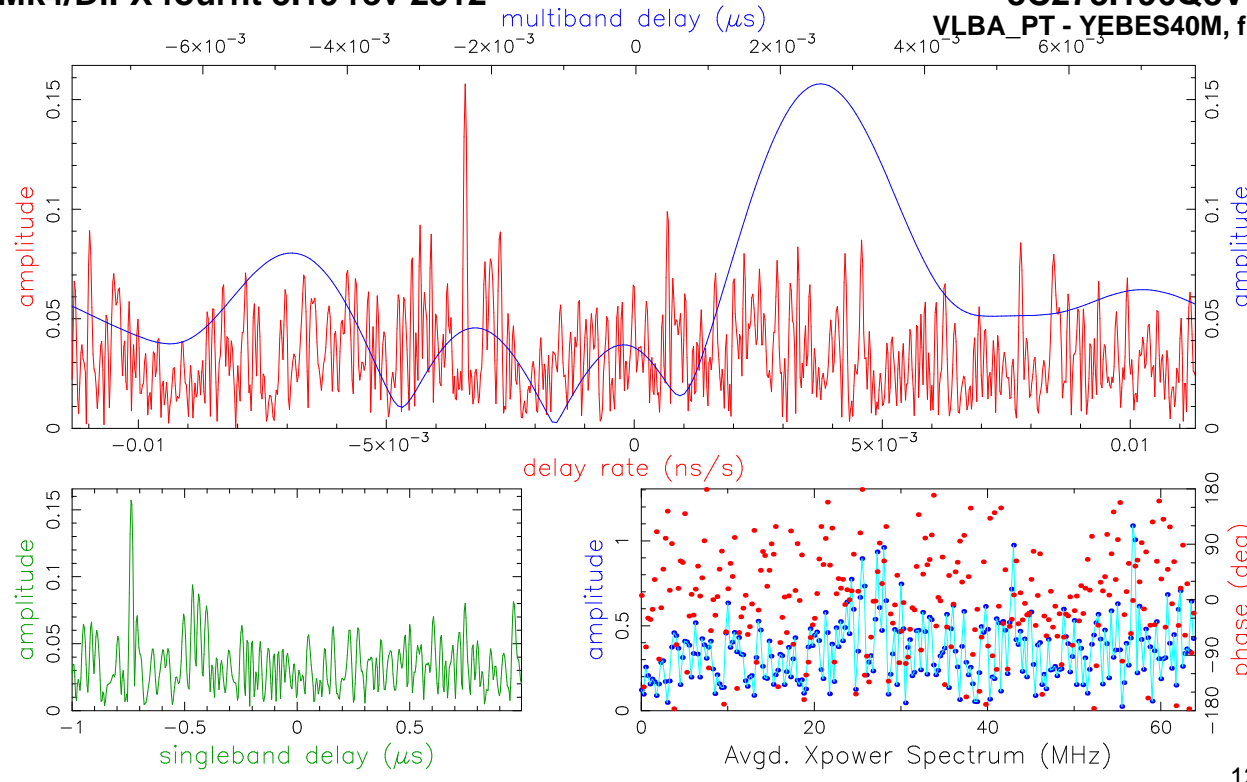
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-168.5	-164.0	-124.0	-115.7	-145.2	-152.8	164.4	-133.8	Phase	-152.2
	0.3	0.4	0.2	0.3	0.1	0.2	0.3	0.2	Ampl.	0.2
	162.0	3.3	489.4	263.5	387.4	71.8	127.0	302.7	Sbd box	173.0
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.84903548708E+03	Apriori delay (usec)	-9.84870887004E+03	Resid mbdelay (usec)	1.50796E-03	+/-	1.9E-04
Sband delay (usec)	-9.84903709004E+03	Apriori clock (usec)	8.1256180E+08	Resid sbdelay (usec)	-3.28220E-01	+/-	1.5E-03
Phase delay (usec)	-9.84870887495E+03	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	-4.90657E-06	+/-	6.4E-07
Delay rate (us/s)	1.91072545485E+00	Apriori rate (us/s)	1.91071572496E+00	Resid rate (us/s)	9.72990E-06	+/-	6.4E-09
Total phase (deg)	-175.8	Apriori accel (us/s/s)	5.22357089614E-05	Resid phase (deg)	-152.2	+/-	20.0

ph/seg (deg)	40.5	Theor.	47.9	Amplitude	0.222 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.9	Search (1024X32)	0.151	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	28.3	Inc. seg. avg.	0.201	Inc. seg. avg.	0.201	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	31.4	Inc. frq. avg.	0.218	Inc. frq. avg.	0.218	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
						Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

o: az 94.9 el 9.6 pa -52.5 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10922.501 -251.688 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/oY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/oY.W.234.196Q8V

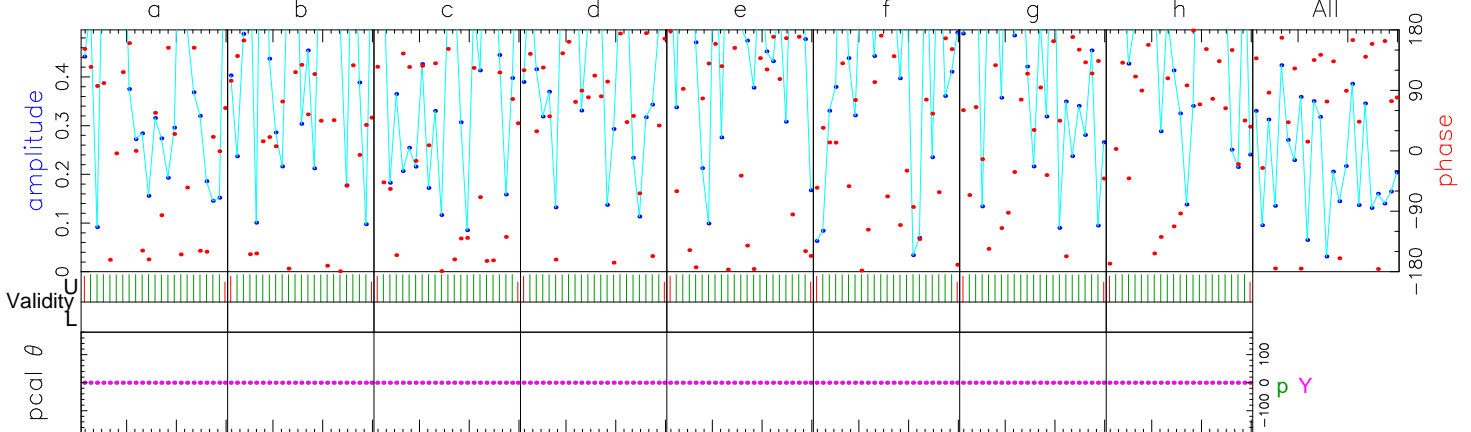


Fringe quality 0

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

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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

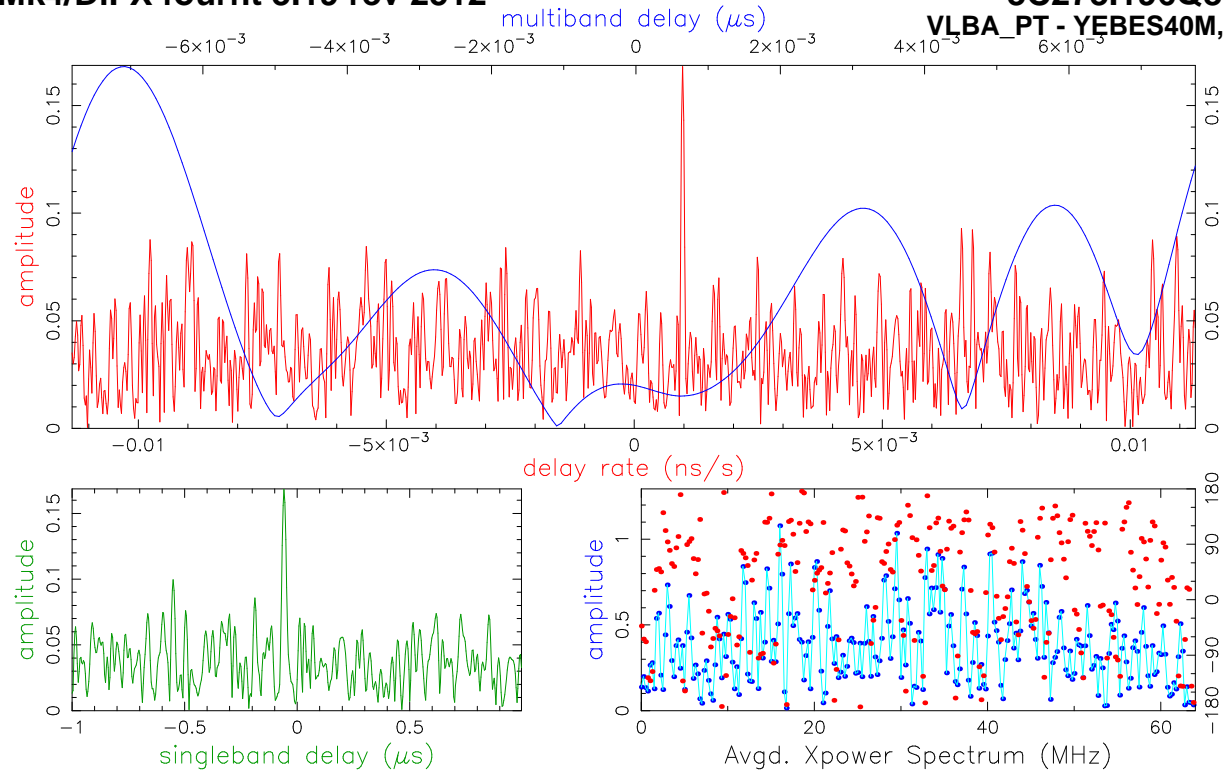
Group delay (usec)(sbd)	-6.76785197177E+03	Apriori delay (usec)	-6.76712018611E+03	Resid mbdelay (usec)	2.58934E-03	+/-	1.9E-04
Sband delay (usec)	-6.76785691161E+03	Apriori clock (usec)	5.3174667E+08	Resid sbdelay (usec)	-7.36726E-01	+/-	1.5E-03
Phase delay (usec)	-6.76712018174E+03	Apriori clockrate (us/s)	-1.6000005E-08	Resid phdelay (usec)	4.36618E-06	+/-	6.4E-07
Delay rate (us/s)	1.89334575989E+00	Apriori rate (us/s)	1.89334916587E+00	Resid rate (us/s)	-3.40597E-06	+/-	6.4E-09
Total phase (deg)	-164.0	Apriori accel (us/s/s)	3.56825978383E-05	Resid phase (deg)	135.4	+/-	20.0

ph/seg (deg)	62.1	Theor.	47.9	Amplitude	0.166 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	79.4		83.5	Search (1024X32)	0.155	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	33.0		28.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	51.4		49.3	Inc. seg. avg.	0.173	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.167	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, pY

VLBA_PT - YEBES40M, fgroup W, pol RR

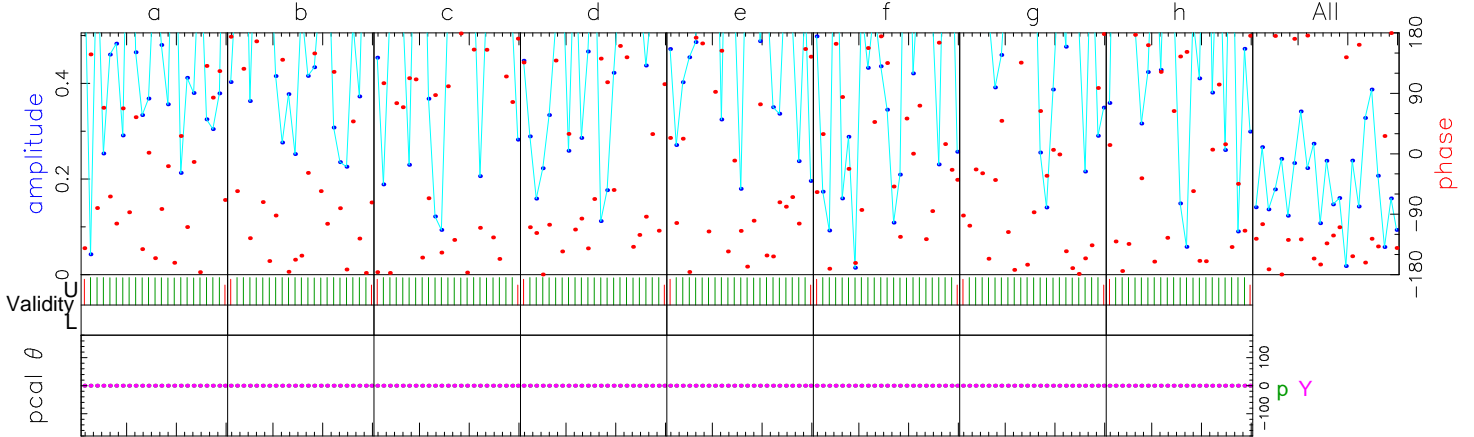


Fringe quality 0

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

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

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

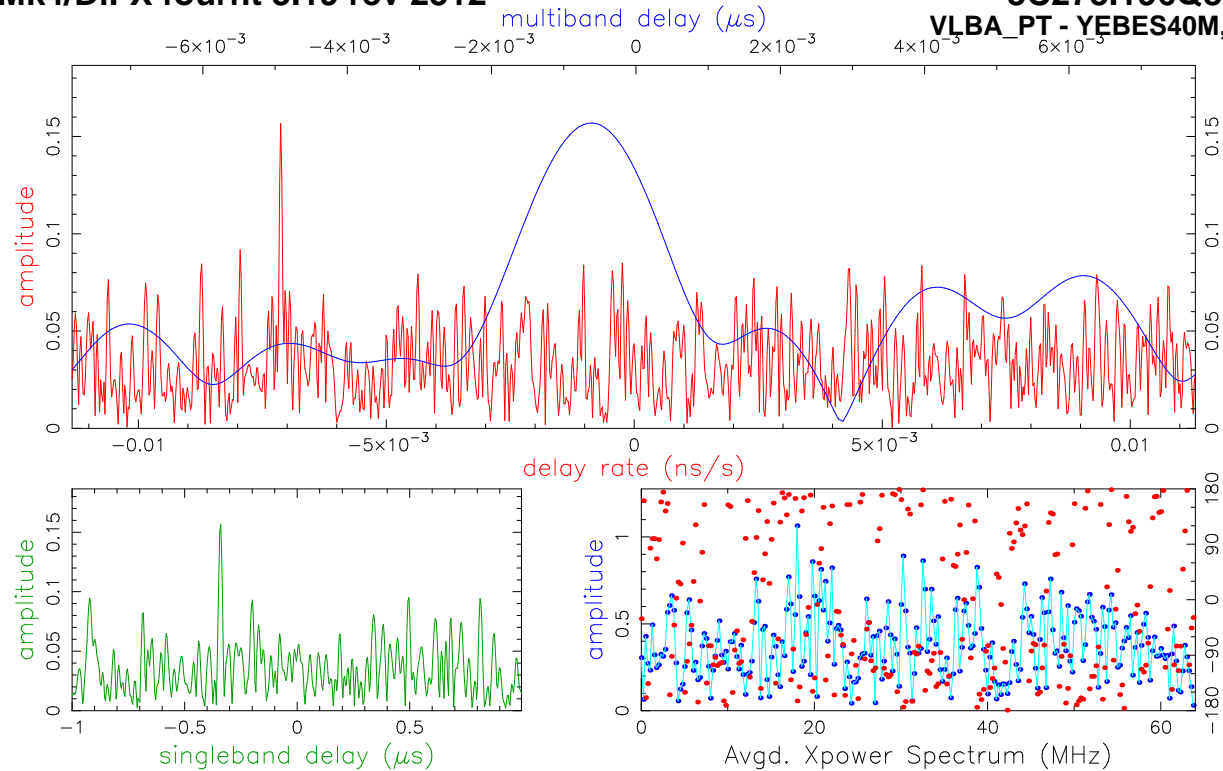


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.6	-145.0	159.4	-145.0	-151.6	13.4	-131.7	-155.4	Phase	-150.1
	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.3	Ampl.	0.2
	461.2	292.9	412.9	162.6	99.8	49.7	109.0	242.7	Sbd box	242.0
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0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

	RMS	Theor.	Amplitude	0.169 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.7	45.4	Search (1024X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	55.2	79.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	72.4	26.8	Inc. seg. avg.	0.149	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.1	46.8	Inc. frq. avg.	0.185	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

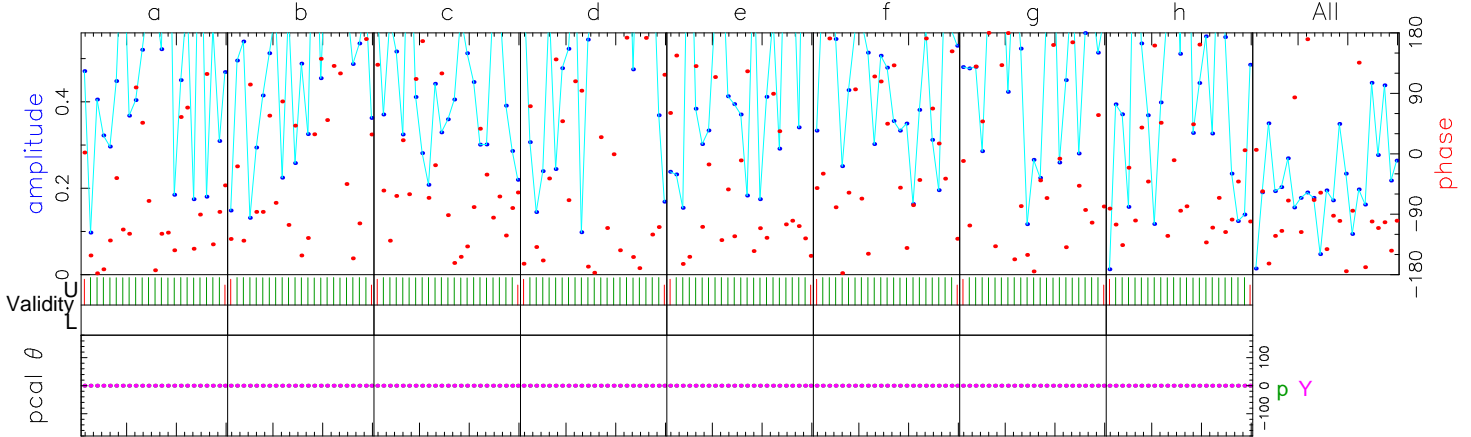
p: az 100.4 el 18.2 pa -54.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10831.610 -662.320 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY...196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.201.196Q8V



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

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

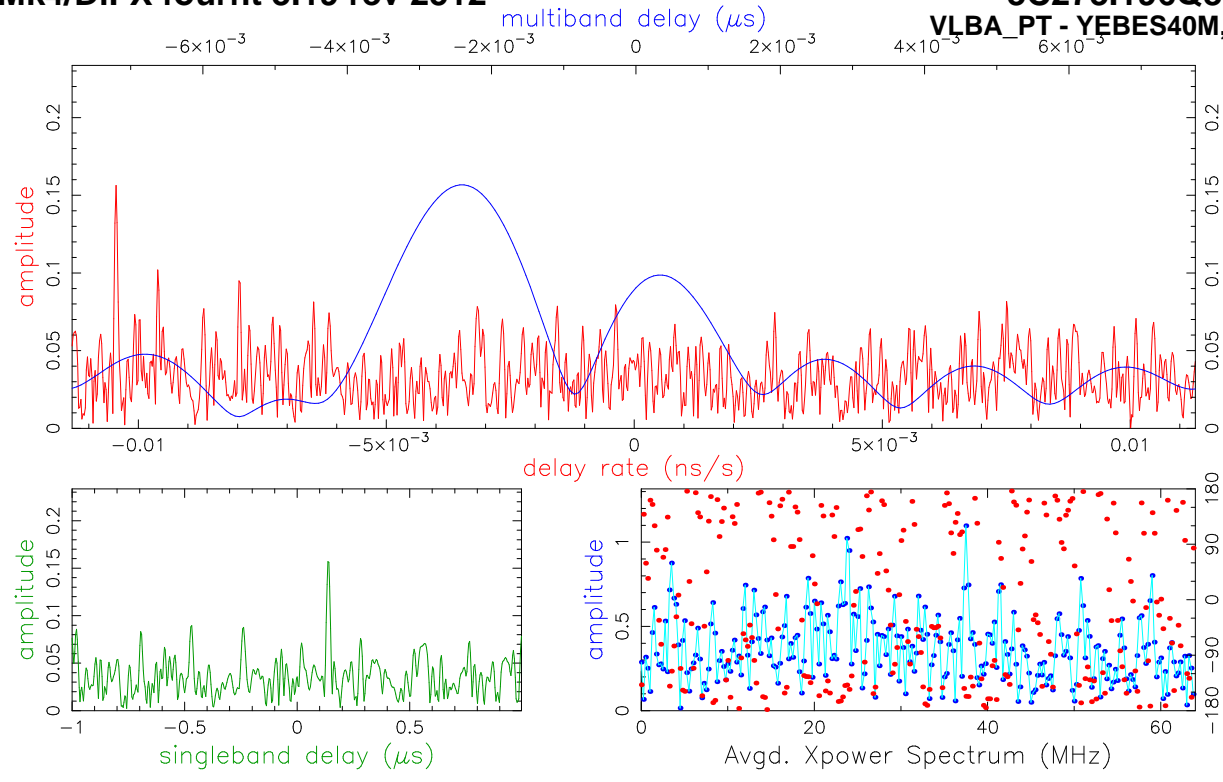


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-111.7	-108.1	-92.7	-159.1	-132.6	-109.2	-142.9	-80.7	Phase	-118.4
	0.2	0.0	0.2	0.3	0.3	0.1	0.2	0.3	Ampl.	0.2
	251.0	384.6	353.8	463.4	420.0	415.9	446.8	71.8	Sbd box	169.7
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.76746462134E+03	Apriori delay (usec)	-6.76712018611E+03	Resid mbdelay (usec)	-6.85232E-04	+/-	1.9E-04
Sband delay (usec)	-6.76746112886E+03	Apriori clock (usec)	5.3174667E+08	Resid sbdelay (usec)	-3.40943E-01	+/-	1.5E-03
Phase delay (usec)	-6.76712018993E+03	Apriori clockrate (us/s)	-1.6000005E-08	Resid phdelay (usec)	-3.81821E-06	+/-	6.5E-07
Delay rate (us/s)	1.89334203592E+00	Apriori rate (us/s)	1.89334916587E+00	Resid rate (us/s)	-7.12994E-06	+/-	6.5E-09
Total phase (deg)	-57.8	Apriori accel (us/s/s)	3.56825978383E-05	Resid phase (deg)	-118.4	+/-	20.2

ph/seg (deg)	RMS 59.5	Theor. 48.4	Amplitude Search (1024X32)	0.187 +/- 0.033	0.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.8	84.6	Interp.	0.000	0.156	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	28.2	28.6	Inc. seg. avg.	0.190	0.156	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	51.8	49.9	Inc. frq. avg.	0.185	0.156	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

p: az 100.4 el 18.2 pa -54.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10831.610 -662.320 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.213.196Q8V

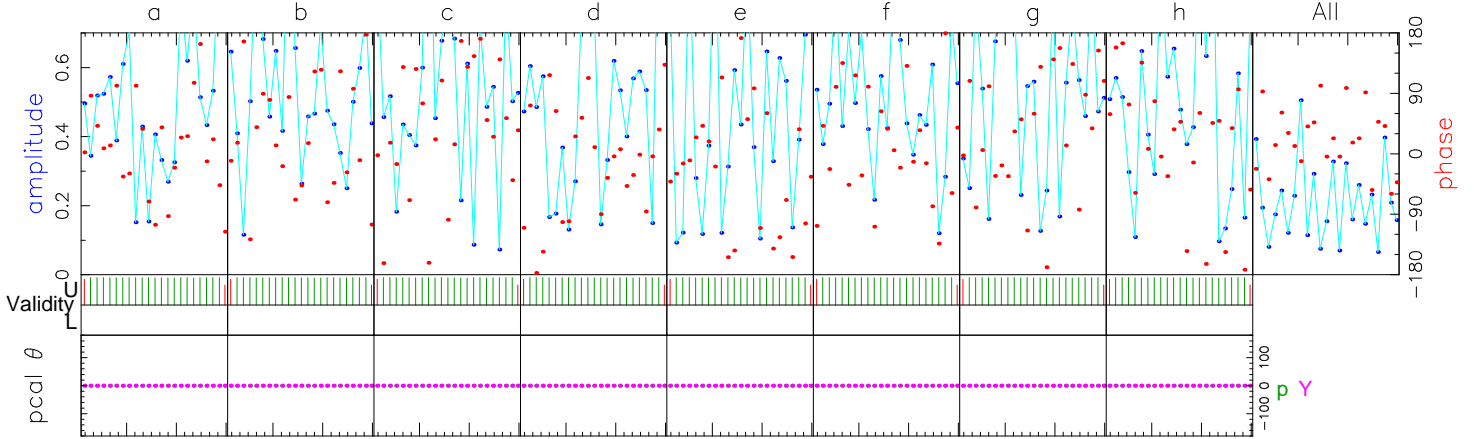


Fringe quality 0

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

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

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



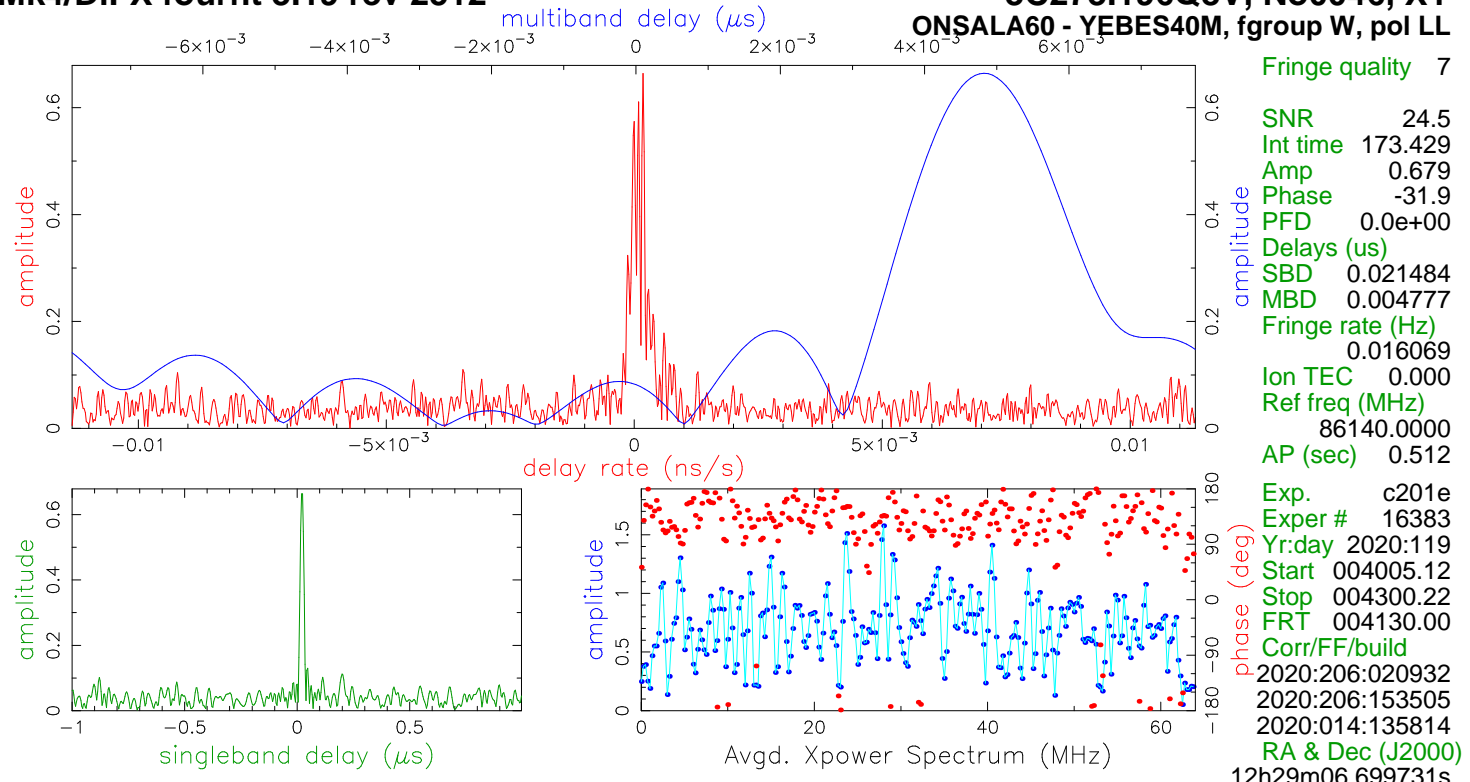
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	341/0	341/0	341/0	341/0	341/0	341/0	341/0	341/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.76698204432E+03				-6.76712018611E+03				-2.48320E-03	+/- 1.9E-04
Sband delay (usec)	-6.76698157686E+03				5.3174667E+00				1.38609E-01	+/- 1.5E-03
Phase delay (usec)	-6.76712018546E+03				-1.6000005E-08				6.47559E-07	+/- 6.4E-07
Delay rate (us/s)	1.89333869386E+00				1.89334916587E+00				-1.04720E-05	+/- 6.4E-09
Total phase (deg)			-279.3		3.56825978383E-05				20.1	+/- 19.9
	RMS	Theor.	Amplitude	0.234 +/- 0.041	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	46.6	47.8	Search (1024X32)	0.156	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	79.3	83.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	33.8	28.2	Inc. seg. avg.	0.233	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	25.1	49.2	Inc. frq. avg.	0.229	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

p: az 100.4 el 18.2 pa -54.4 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -10831.610 -662.320 simultaneous interpolator

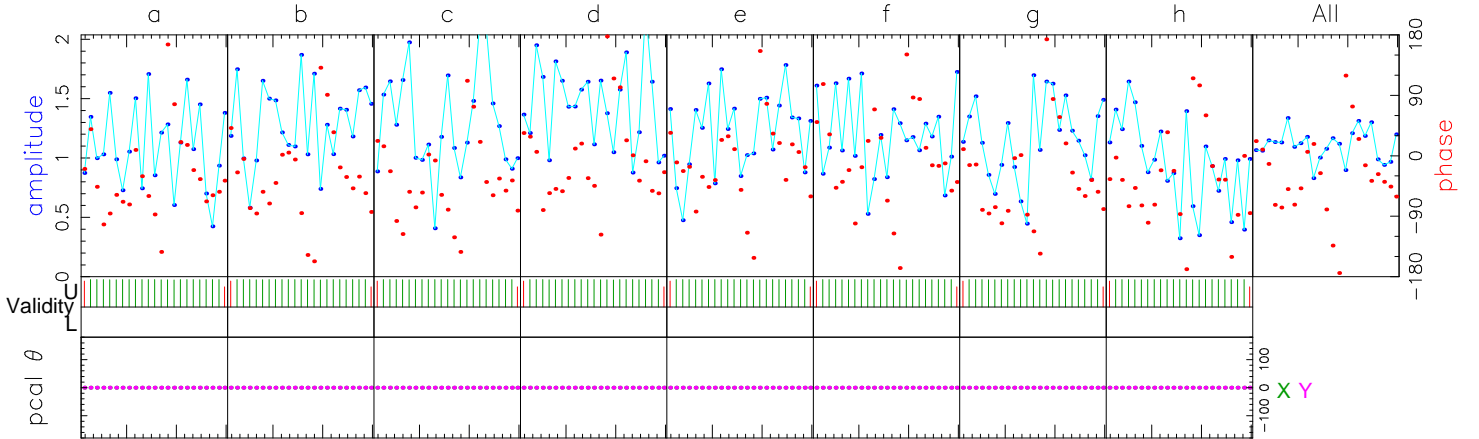
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/pY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/pY.W.231.196Q8V

Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, XY
ONŞALA60 - 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
	-42.6	-39.8	-43.4	-20.7	-8.9	-7.2	-46.8	-45.7	Phase	-31.9
	0.7	0.8	0.8	0.9	0.7	0.5	0.6	0.6	Ampl.	0.7
	262.0	262.5	262.6	263.0	262.6	262.2	262.1	261.3	Sbd box	262.5
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.70138262126E+03		Apriori delay (usec)	-5.70140302307E+03	Resid mbdelay (usec)	4.77680E-03	+/-	4.4E-05		
Sband delay (usec)	-5.70138153882E+03		Apriori clock (usec)	2.8848253E+01	Resid sbdelay (usec)	2.14843E-02	+/-	3.5E-04		
Phase delay (usec)	-5.70140302409E+03		Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-1.02745E-06	+/-	1.5E-07		
Delay rate (us/s)	4.43923295137E-02		Apriori rate (us/s)	4.43921429633E-02	Resid rate (us/s)	1.86550E-07	+/-	1.5E-09		
Total phase (deg)		-178.4	Apriori accel (us/s/s)	3.12071047597E-05	Resid phase (deg)	-31.9	+/-	4.7		

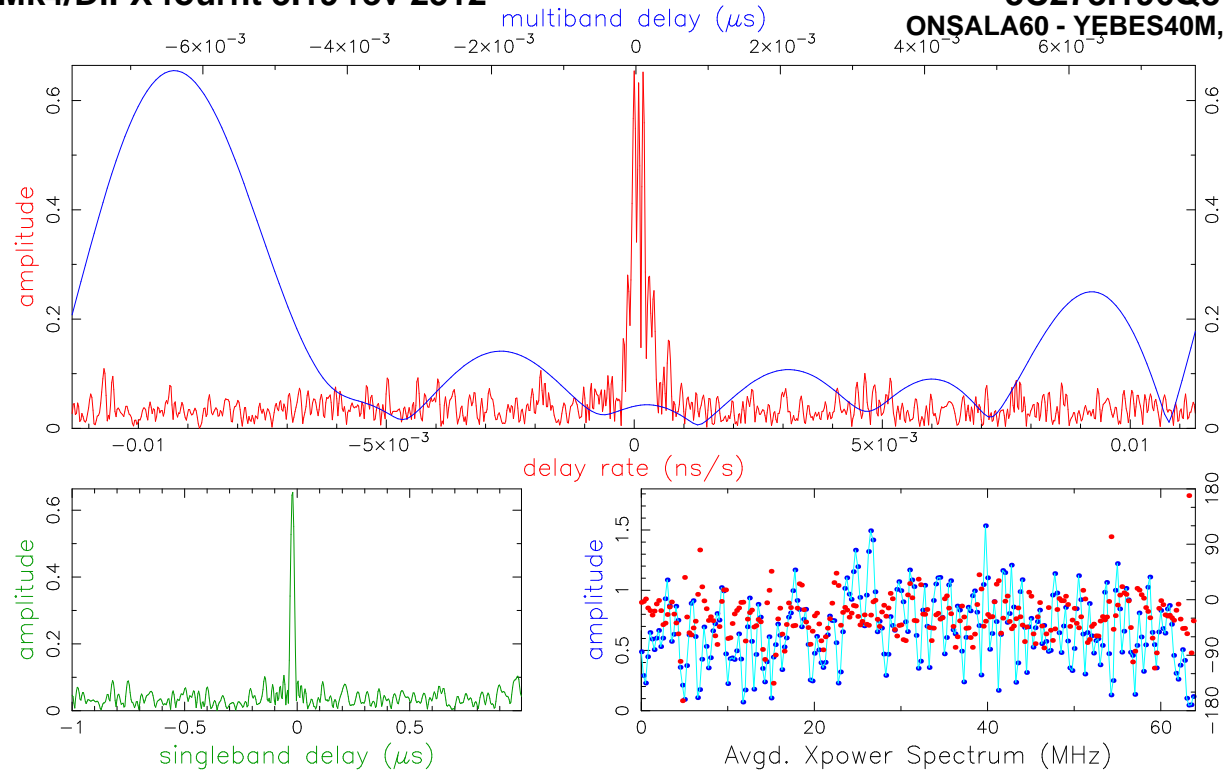
	RMS	Theor.	Amplitude	0.679 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	61.5	11.2	Search (1024X32)	0.633	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	65.7	19.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	18.2	6.6	Inc. seg. avg.	1.086	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	16.7	11.6	Inc. frq. avg.	0.684	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

X: az 236.5 el 21.6 pa 26.8 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -237.975 1791.273 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/XY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/XY.W.211.196Q8V

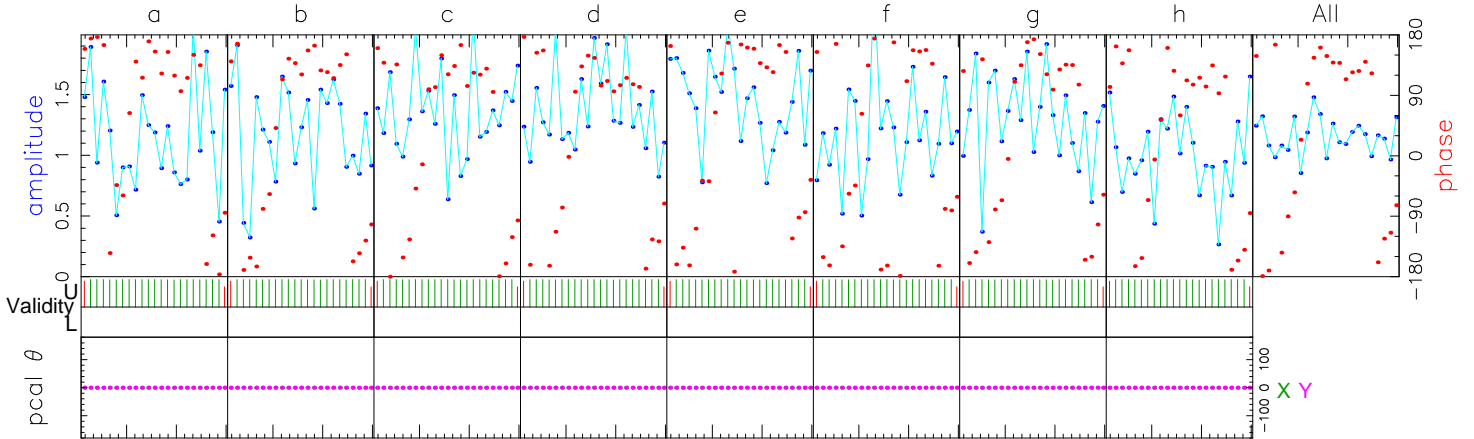
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, XY
 ONŞALA60 - YEŞES40M, fgroup W, pol RR



Fringe quality 9
 SNR 23.9
 Int time 173.429
 Amp 0.664
 Phase 163.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.021179
 MBD -0.006454
 Fringe rate (Hz) 0.000449
 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
 2020:206:153507
 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

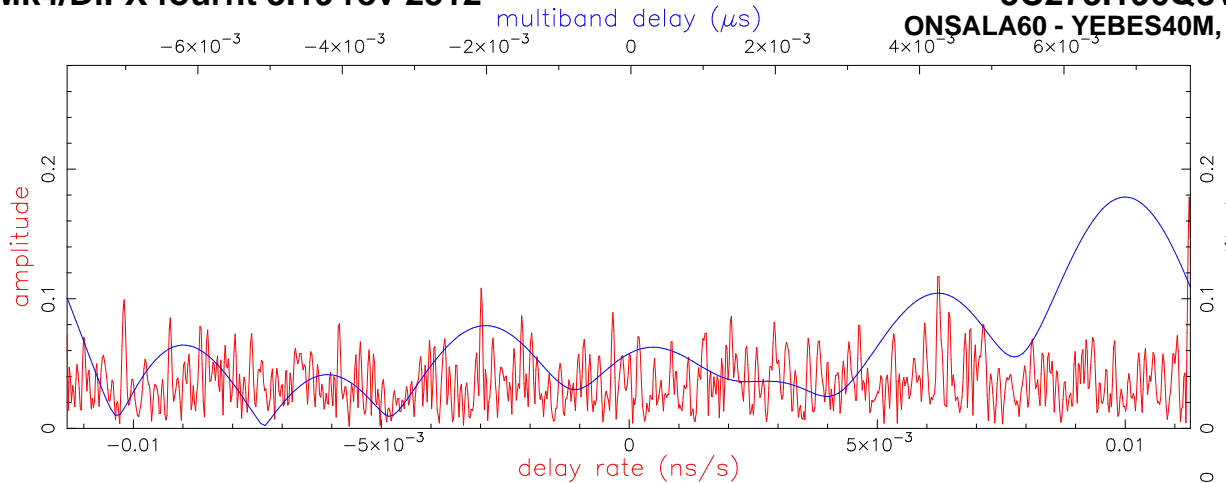


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	162.7	156.9	153.4	147.9	-172.7	-170.5	170.2	140.9	Phase	163.8
	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5	Ampl.	0.7
	252.5	251.2	251.1	251.4	251.8	251.4	251.0	250.6	Sbd box	251.6
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.70142510257E+03		Apriori delay (usec)		-5.70140302307E+03		Resid mbdelay (usec)		-6.45450E-03	+/- 4.5E-05
Sband delay (usec)	-5.70142420232E+03		Apriori clock (usec)		2.8848253E+01		Resid sbdelay (usec)		-2.11792E-02	+/- 3.6E-04
Phase delay (usec)	-5.70140301778E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		5.28271E-06	+/- 1.5E-07
Delay rate (us/s)	4.43921481782E-02		Apriori rate (us/s)		4.43921429633E-02		Resid rate (us/s)		5.21498E-09	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		3.12071047597E-05		Resid phase (deg)		163.8	+/- 4.8

ph/seg (deg) 63.7 11.5 Search (1024X32) 0.647 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.8 20.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.1 6.8 Inc. seg. avg. 1.130 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.3 11.8 Inc. frq. avg. 0.676 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 236.5 el 21.6 pa 26.8 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -237.975 1791.273 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/XY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/XY.W.225.196Q8V

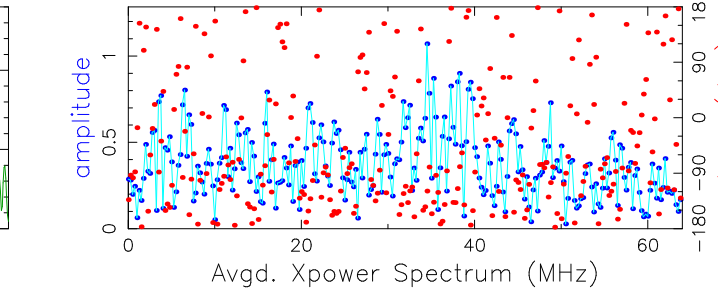
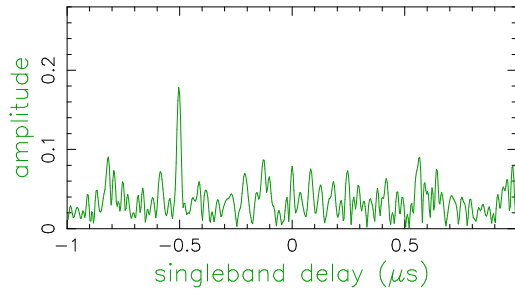
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, XY
 ONŞALA60 - YEŞES40M, fgroup W, pol LR



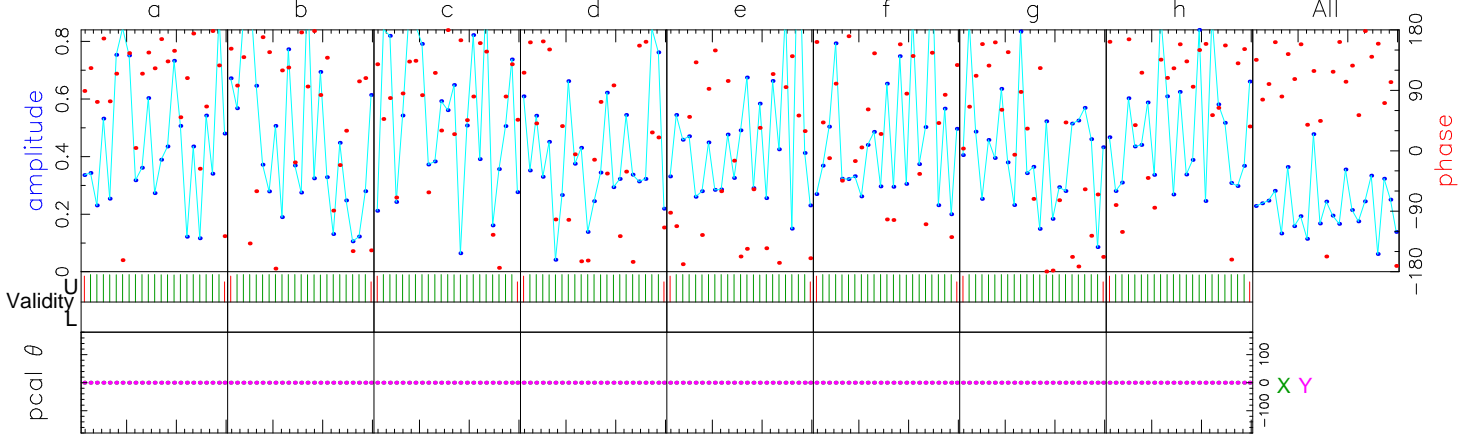
Fringe quality 0

SNR 6.4
 Int time 173.429
 Amp 0.280
 Phase 121.2
 PFD 1.7e-02
 Delays (us)
 SBD -0.503268
 MBD 0.006884
 Fringe rate (Hz)
 0.974070
 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
 2020:206:153509
 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
	134.0	142.3	99.6	57.3	116.8	119.8	124.6	126.8	Phase	121.2
	0.5	0.3	0.5	0.1	0.2	0.2	0.2	0.4	Ampl.	0.3
	128.2	74.4	128.4	503.6	45.8	314.6	104.6	124.8	Sbd box	128.2
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

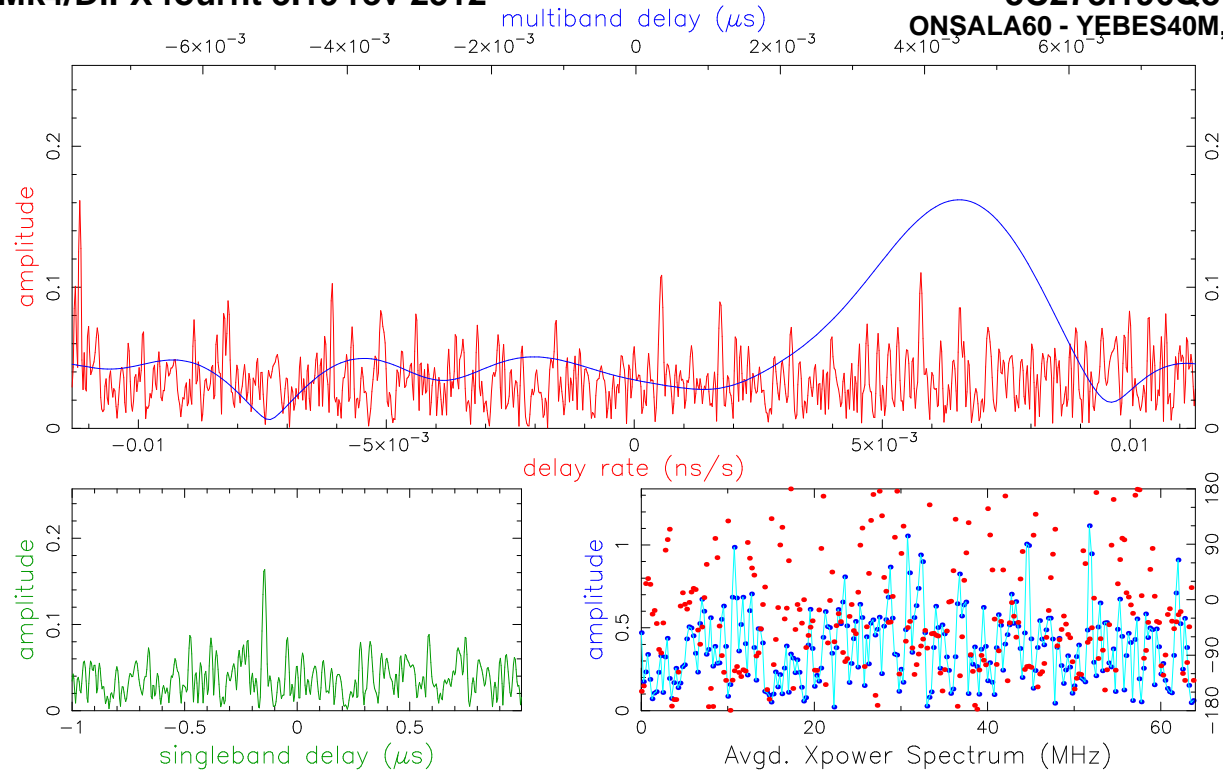
Group delay (usec)(sbd)	-5.70191176363E+03	Apriori delay (usec)	-5.70140302307E+03	Resid mbdelay (usec)	6.88444E-03	+/-	1.7E-04
Sband delay (usec)	-5.70190629157E+03	Apriori clock (usec)	2.8848253E+01	Resid sbdelay (usec)	-5.03268E-01	+/-	1.3E-03
Phase delay (usec)	-5.70140301916E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	3.90952E-06	+/-	5.7E-07
Delay rate (us/s)	4.44034509491E-02	Apriori rate (us/s)	4.43921429633E-02	Resid rate (us/s)	1.13080E-05	+/-	5.7E-09
Total phase (deg)	-25.3	Apriori accel (us/s/s)	3.12071047597E-05	Resid phase (deg)	121.2	+/-	17.8

ph/seg (deg)	44.7	Theor.	42.7	Amplitude	0.280 +/- 0.044	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	59.6	Search (1024X32)	0.175	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	29.5	Inc. seg. avg.	0.284	Inc. frq. avg.	0.268	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	55.5	Inc. frq. avg.	0.268			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

X: az 236.5 el 21.6 pa 26.8 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -237.975 1791.273 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/XY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/XY.W.240.196Q8V

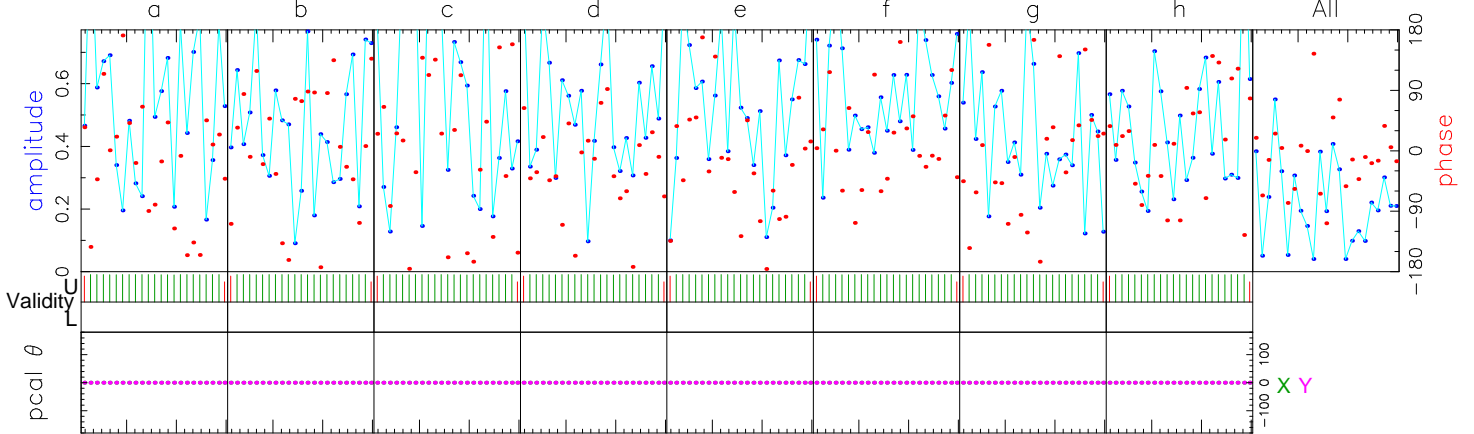
Mk4/DiFX fourfit 3.19 rev 2512

3C273.196Q8V, No0046, XY
 ONŞALA60 - YEŞES40M, fgroup W, pol RL



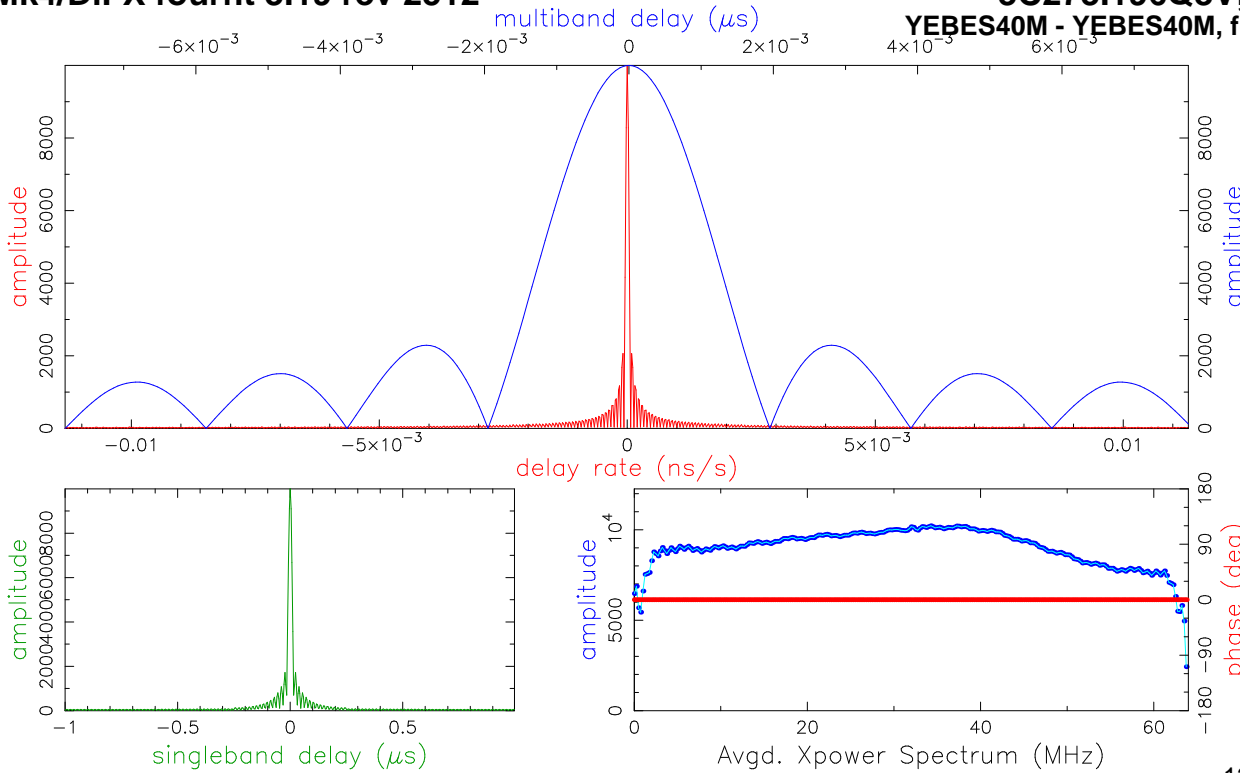
Fringe quality 0
 SNR 6.0
 Int time 173.429
 Amp 0.257
 Phase -0.0
 PFD 2.6e-01
 Delays (us)
 SBD -0.146169
 MBD 0.004583
 Fringe rate (Hz)
 -0.963720
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201e
 Exper # 16383
 Yr:day 2020:119
 Start 004005.12
 Stop 004300.22
 FRT 004130.00
 Corr/FF/build
 2020:206:020932
 2020:206:153511
 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
	-37.2	43.6	61.6	-3.9	-17.3	3.9	-37.4	6.0	Phase	-0.0
	0.2	0.2	0.2	0.4	0.3	0.5	0.2	0.2	Ampl.	0.3
	255.7	78.2	405.8	39.6	329.6	298.8	316.7	339.0	Sbd box	219.6
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	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)	-5.70155469026E+03		Apriori delay (usec)		-5.70140302307E+03		Resid mbdelay (usec)		4.58280E-03	+/- 1.8E-04
Sband delay (usec)	-5.70154919232E+03		Apriori clock (usec)		2.8848253E+01		Resid sbdelay (usec)		-1.46169E-01	+/- 1.4E-03
Phase delay (usec)	-5.70140302307E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		-9.12979E-10	+/- 6.2E-07
Delay rate (us/s)	4.43809551346E-02		Apriori rate (us/s)		4.43921429633E-02		Resid rate (us/s)		-1.11878E-05	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		3.12071047597E-05		Resid phase (deg)		-0.0	+/- 19.2

ph/seg (deg) 54.2 46.0 Search (1024X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 86.6 80.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.4 27.1 Inc. seg. avg. 0.260 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.3 47.3 Inc. frq. avg. 0.257 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 236.5 el 21.6 pa 26.8 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) -237.975 1791.273 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/XY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/XY.W.254.196Q8V

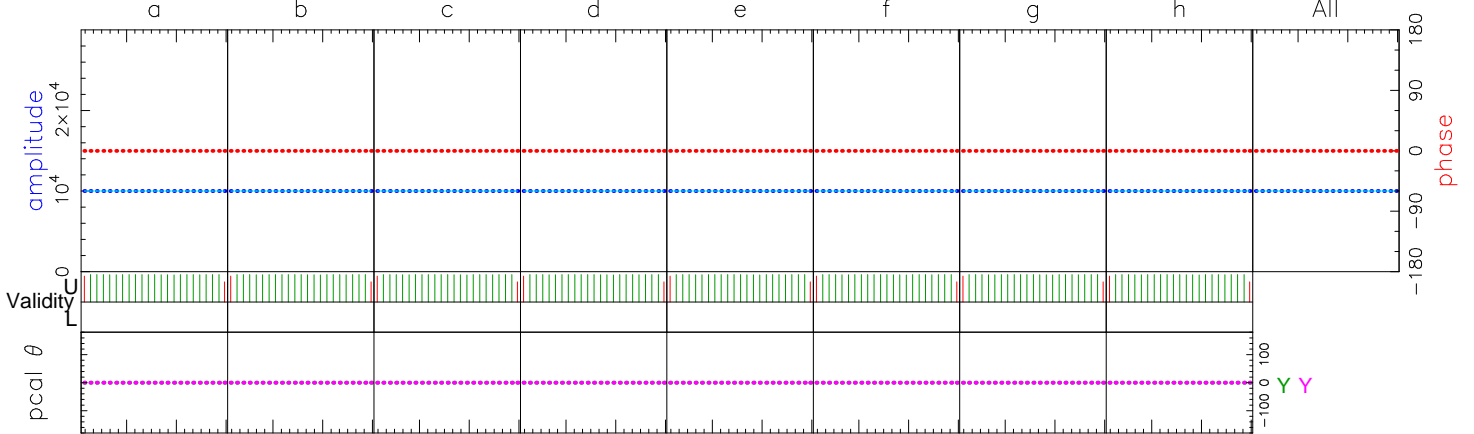


Fringe quality 9

SNR 360129.6
Int time 173.429
Amp 9999.995
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 2020:119
Start 004005.12
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., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

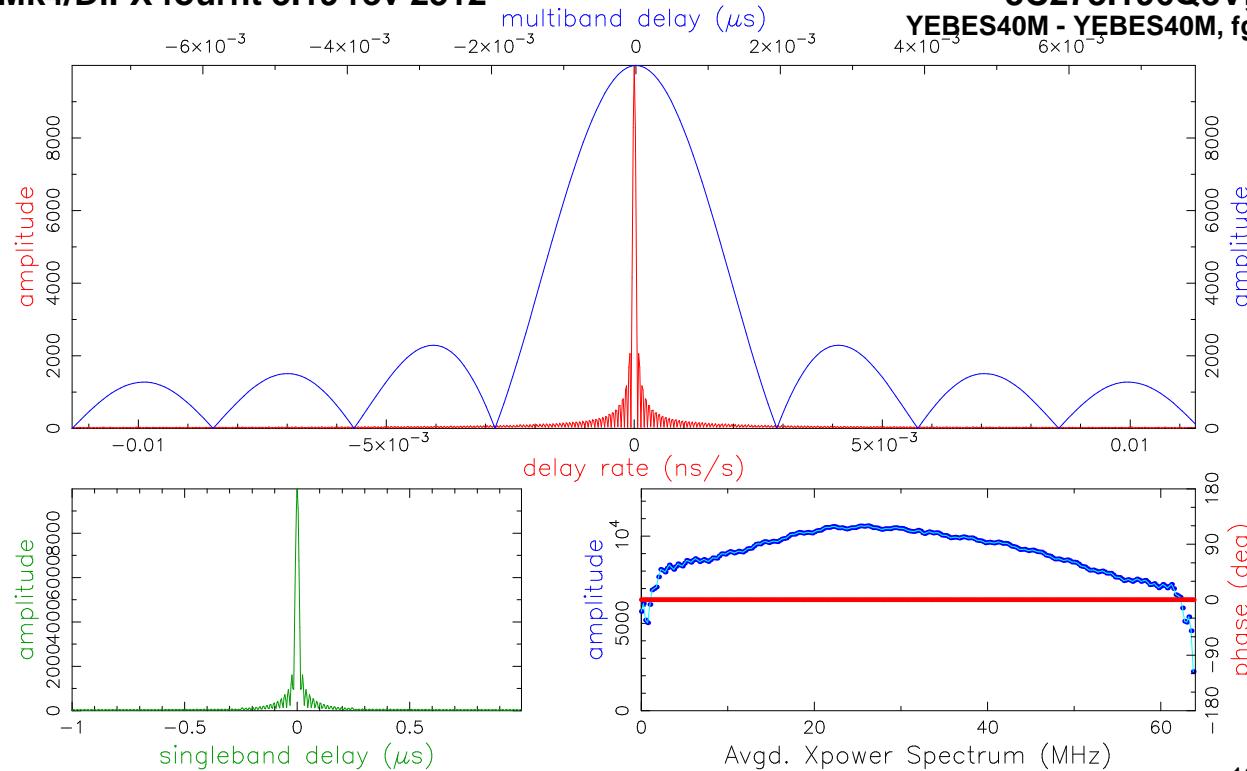


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	0.0	-0.0	0.0	-0.0	-0.0	0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.4E-08
 Phase delay (usec) 1.69947178503E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.69947E-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 +/- 1.0E-13
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 9999.995 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.995 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.995 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Y: az 229.4 el 39.6 pa 35.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/YY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/YY.W.216.196Q8V

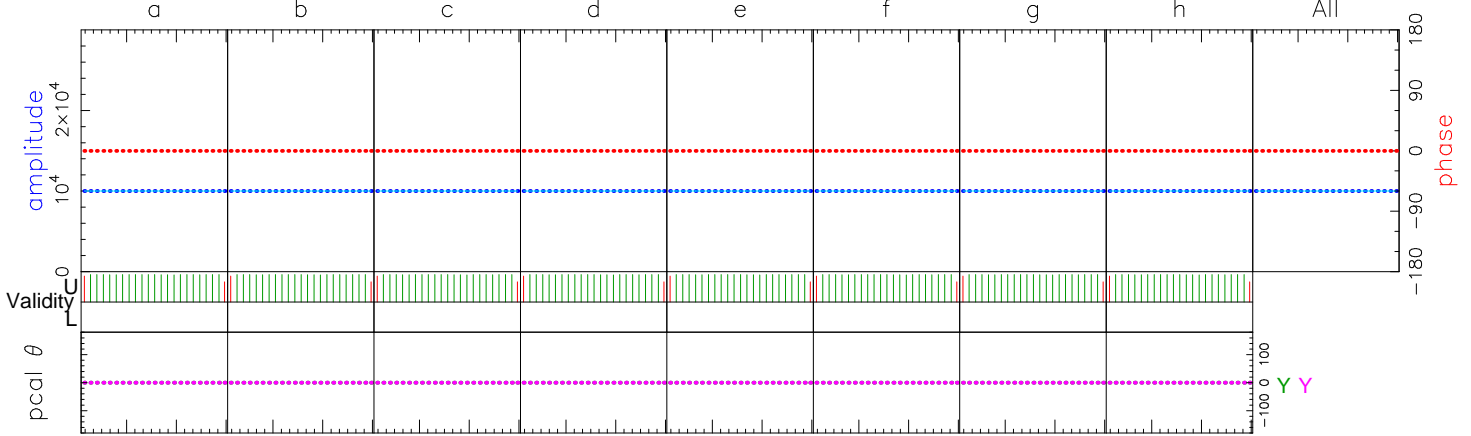


Fringe quality 9

SNR 360129.6
 Int time 173.429
 Amp 9999.995
 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 004005.12
 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., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	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)	-3.02782289601E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.02782E-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	+/-	1.0E-13
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0
 amp/seg (%) 0.0 0.0
 ph/frq (deg) 0.0 0.0
 amp/frq (%) 0.0 0.0

RMS Theor. Amplitude 9999.995 +/- 0.028
 Search (1024X32) 9999.995
 Interp. 0.000
 Inc. seg. avg. 10000.000
 Inc. frq. avg. 9999.995

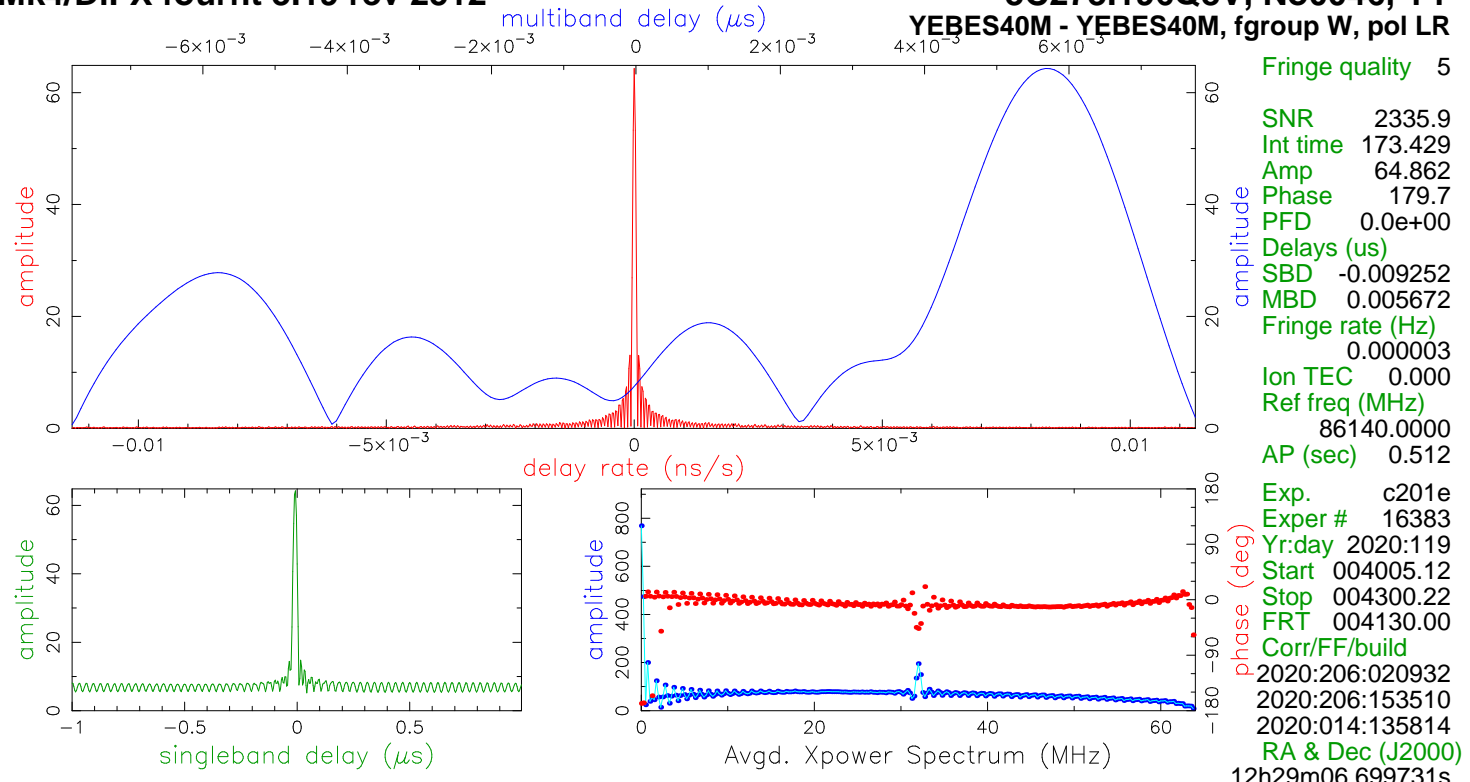
PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MISamp/s): 128
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

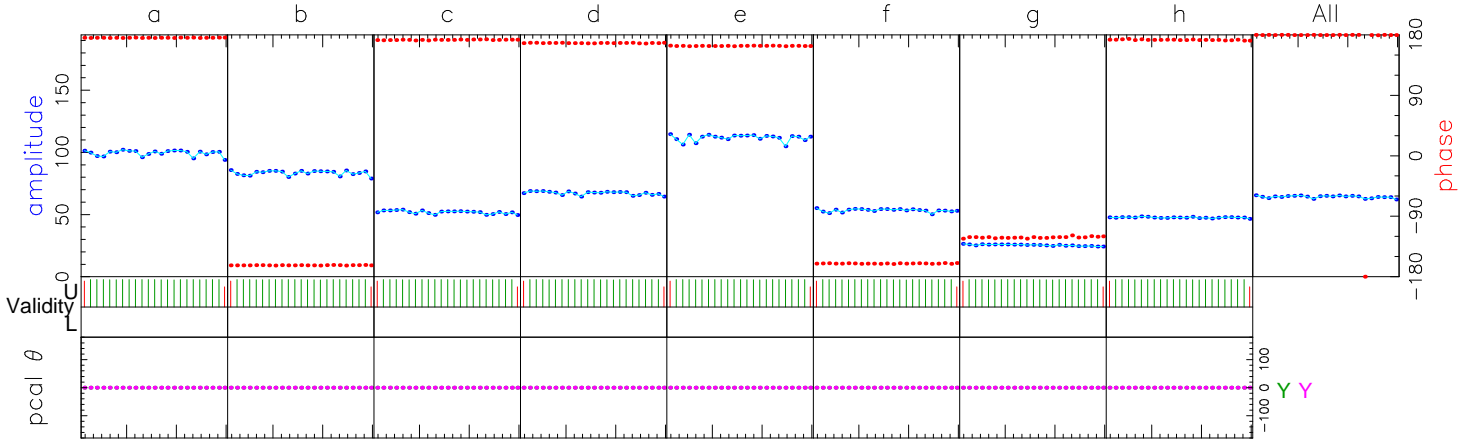
Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

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



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



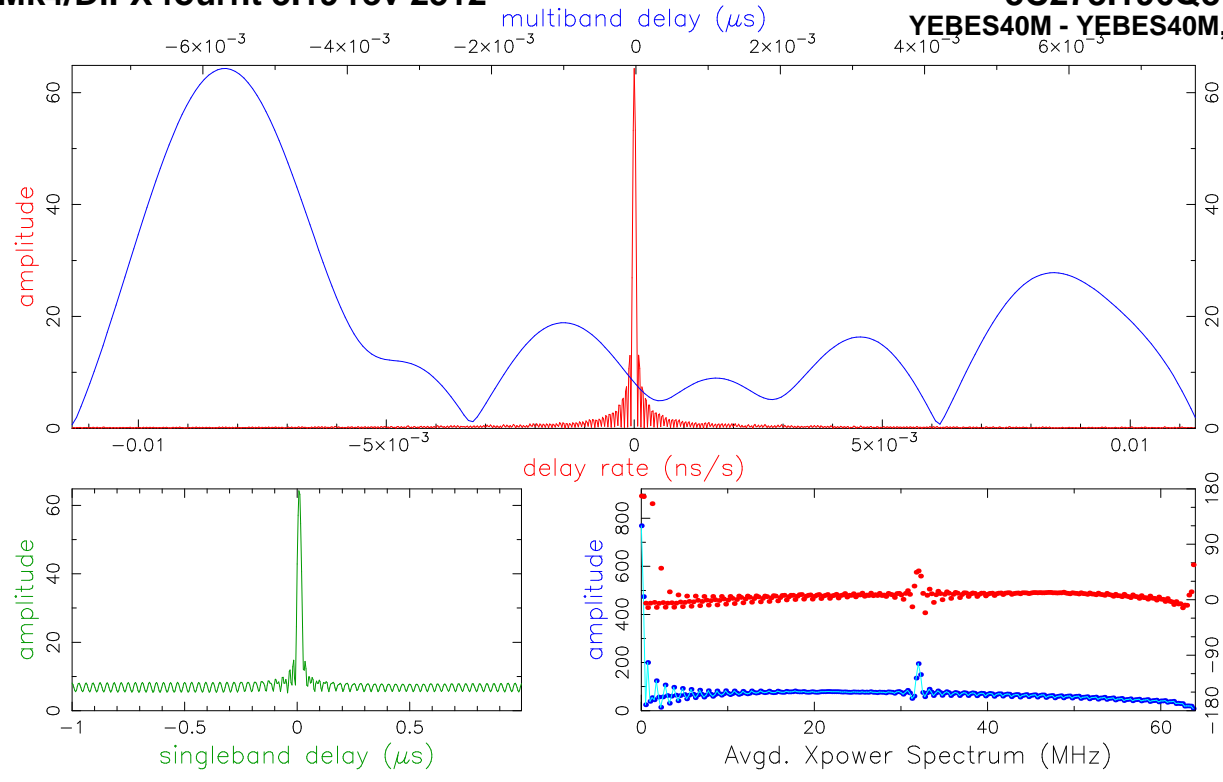
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-9.95265625000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	5.67234E-03	+/-	4.6E-07
Sband delay (usec)	-9.25200000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-9.25200E-03	+/-	3.7E-06
Phase delay (usec)	5.79517290913E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.79517E-06	+/-	1.6E-09
Delay rate (us/s)	3.68449962184E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.68450E-11	+/-	1.6E-11
Total phase (deg)		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	179.7	+/-	0.0

ph/seg (deg)	0.2	Theor.	Amplitude	64.862 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	1.6	0.1	Search (1024X32)	63.670	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	28.0	0.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	41.9	0.1	Inc. seg. avg.	64.297	Sample rate (MSamp/s):	128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	67.589	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

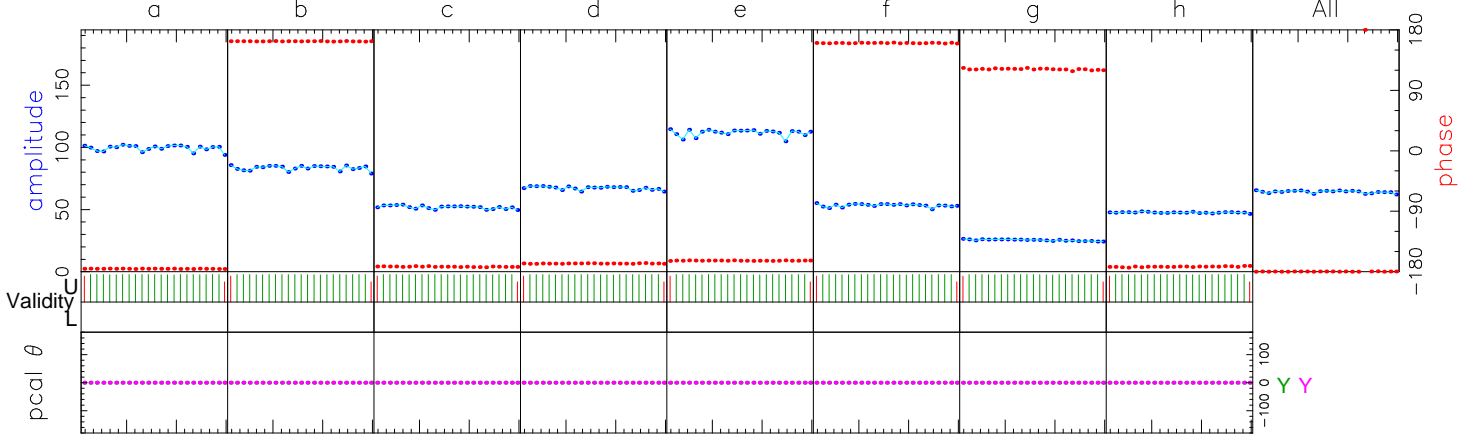
Y: az 229.4 el 39.6 pa 35.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/YY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/YY.W.246.196Q8V



Fringe quality 5
 SNR 2335.9
 Int time 173.429
 Amp 64.862
 Phase -179.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.009252
 MBD -0.005672
 Fringe rate (Hz)
 -0.000003
 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
 2020:206:153512
 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

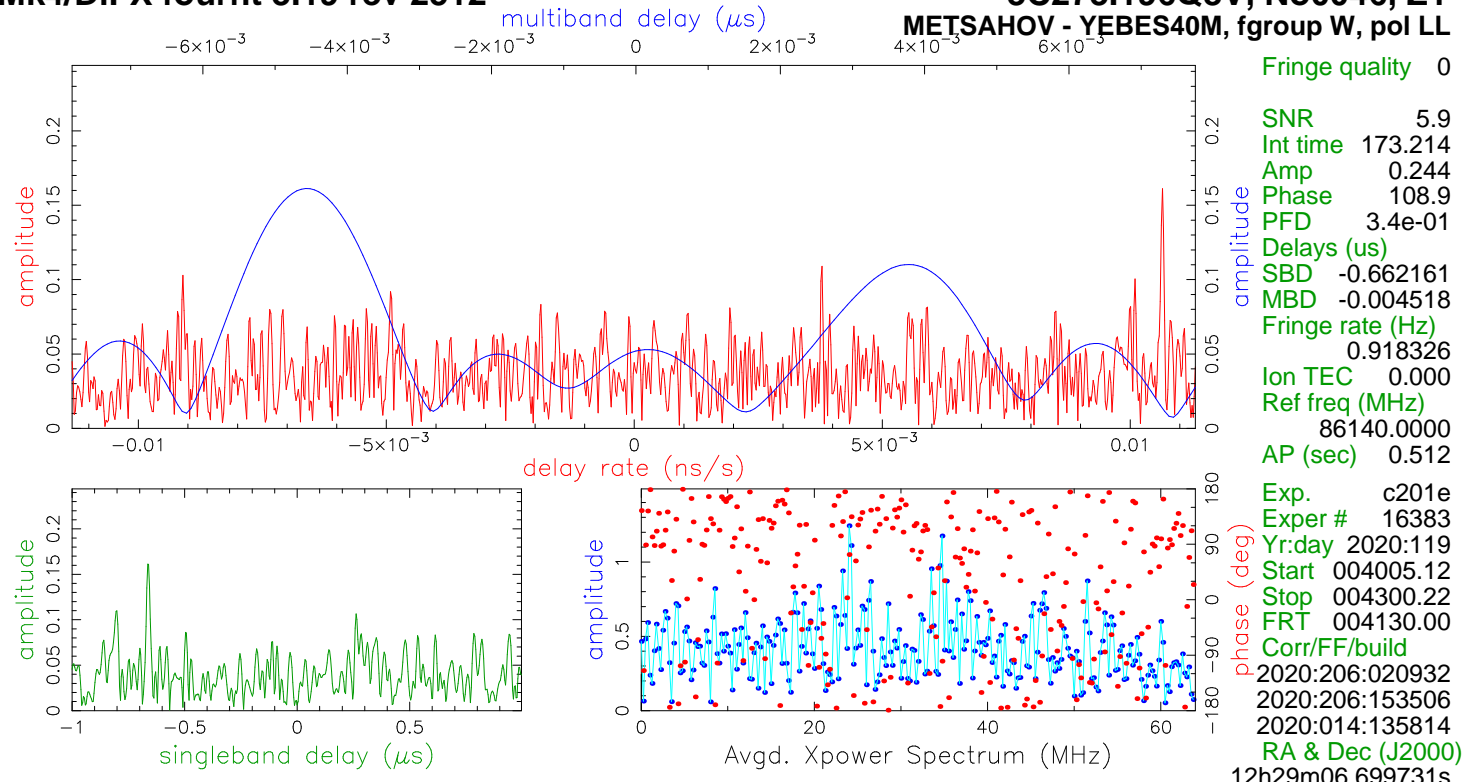


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.5	162.9	-172.5	-167.7	-163.5	160.3	121.4	-172.5	Phase	-179.7
	99.6	83.6	51.9	67.3	111.8	53.4	25.5	47.7	Ampl.	67.6
	259.1	260.1	259.5	259.6	259.6	257.9	261.5	262.1	Sbd box	259.4
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	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)	9.95265625000E-03		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		-5.67234E-03	+/- 4.6E-07
Sband delay (usec)	9.25200000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		9.25200E-03	+/- 3.7E-06
Phase delay (usec)	-5.79517290921E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.79517E-06	+/- 1.6E-09
Delay rate (us/s)	-3.68449962184E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.68450E-11	+/- 1.6E-11
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-179.7	+/- 0.0

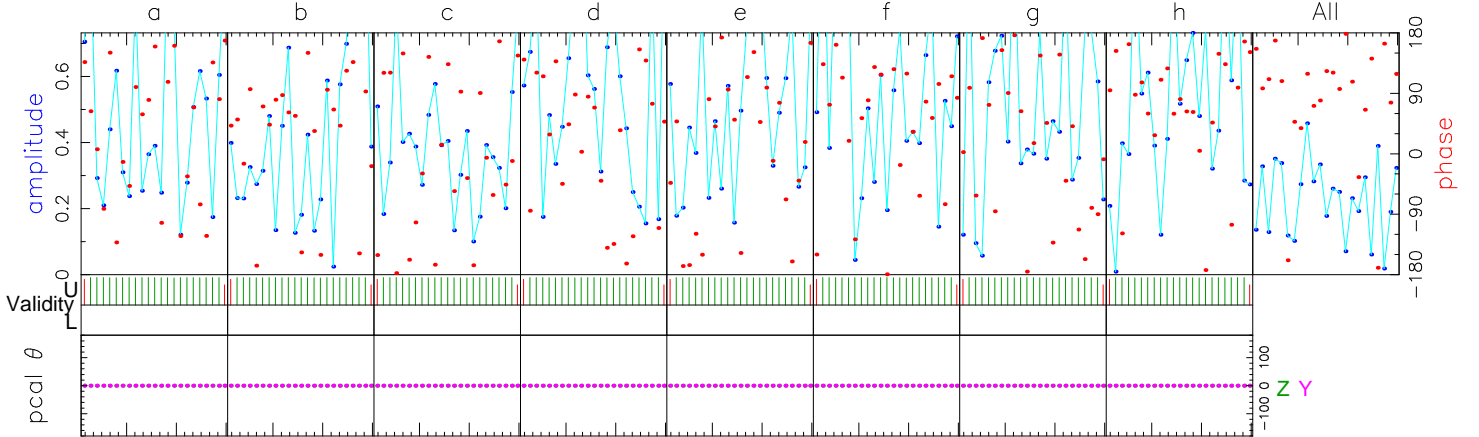
ph/seg (deg) 0.2 0.1 Amplitude 64.862 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.6 0.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.0 0.1 Inc. seg. avg. 64.297 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.9 0.1 Inc. frq. avg. 67.589 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Y: az 229.4 el 39.6 pa 35.3 Y: az 229.4 el 39.6 pa 35.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/YY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/YY.W.257.196Q8V

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

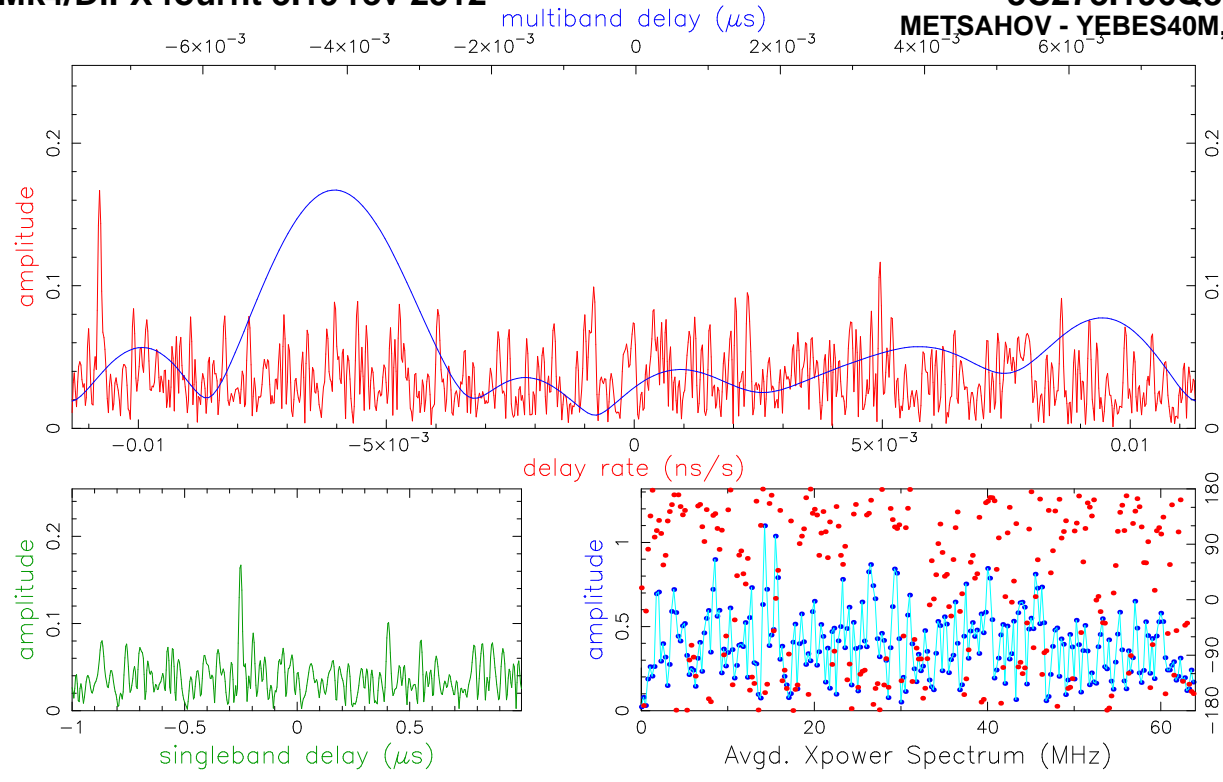
ph/seg (deg)	53.7	Theor.	46.4	Amplitude	0.244 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	79.8	Search (1024X32)	0.154	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	43.7	Inc. seg. avg.	0.257	Inc. frq. avg.	0.244	Bits/sample:	2x2	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	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

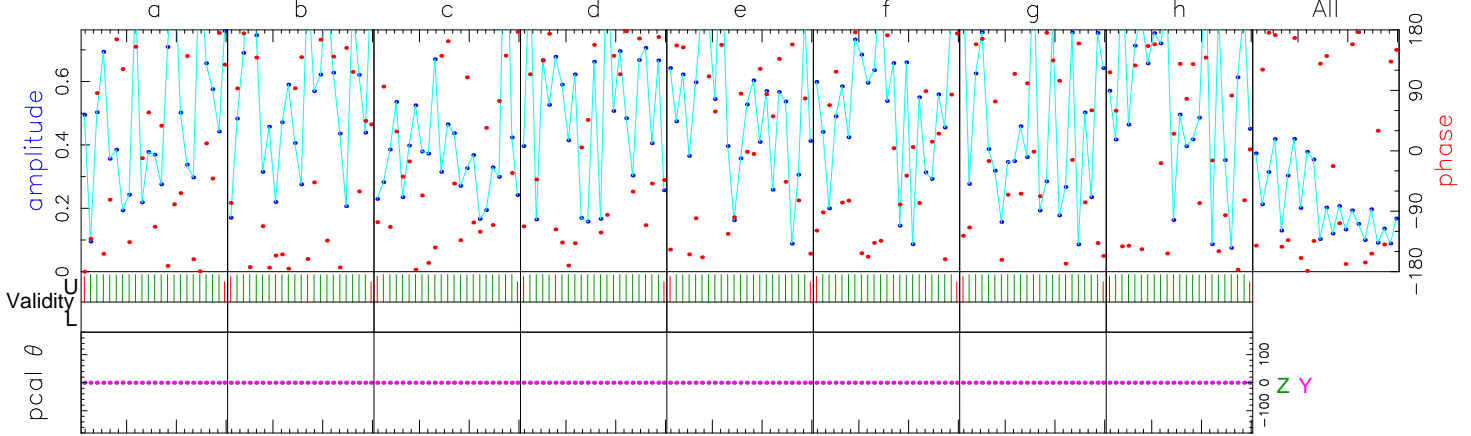
Mk4/DiFX fourfit 3.19 rev 2512

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)		Apriori accel (us/s/s)	4.44978188773E-05	Resid phase (deg)	-172.3	+/-	18.8

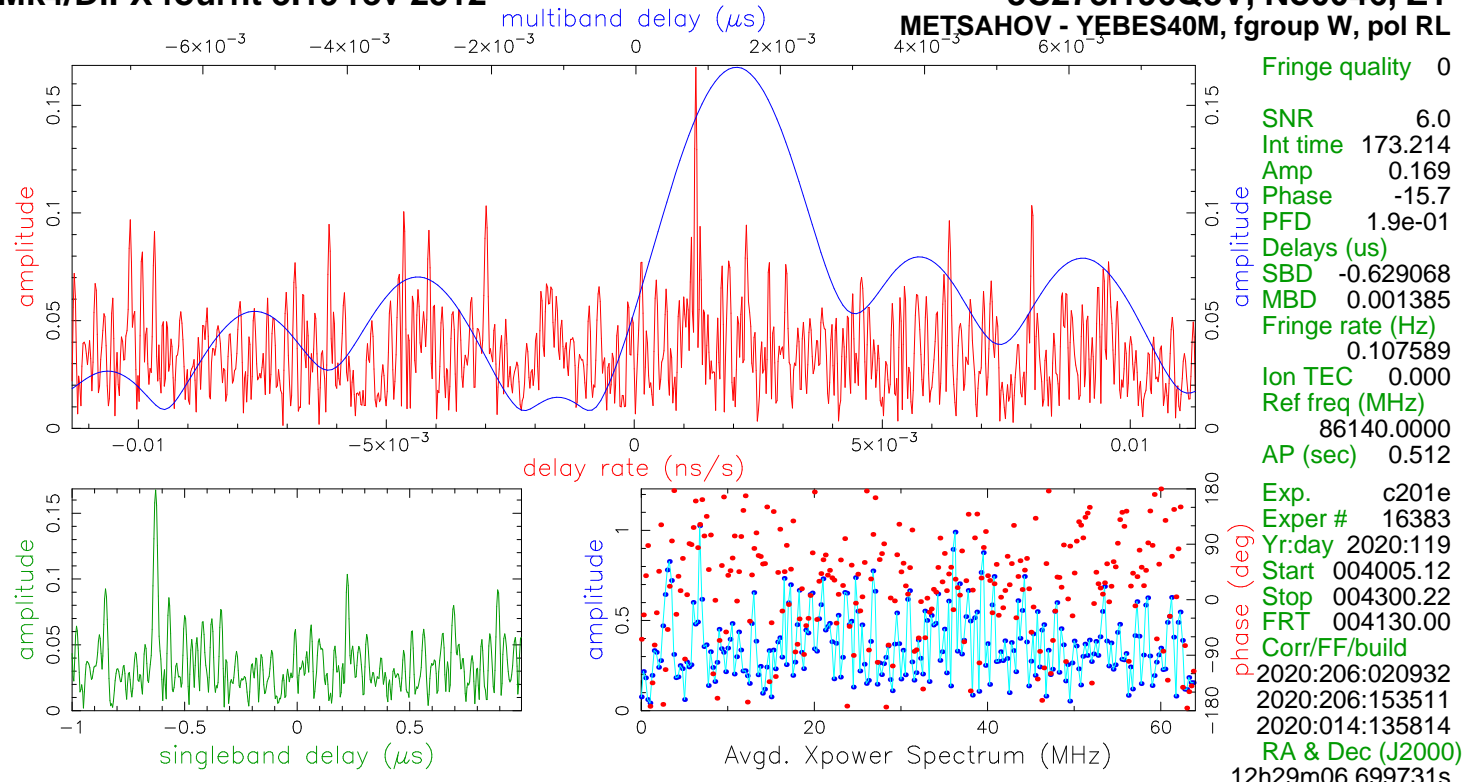
ph/seg (deg)	57.0	Theor.	45.0	Amplitude	0.254 +/- 0.042	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.5	Search (1024X32)	0.161	Search	0.161	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	27.1	Inc. seg. avg.	0.250	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.1	Inc. frq. avg.	0.243	Inc. seg. avg.	0.250	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.243	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

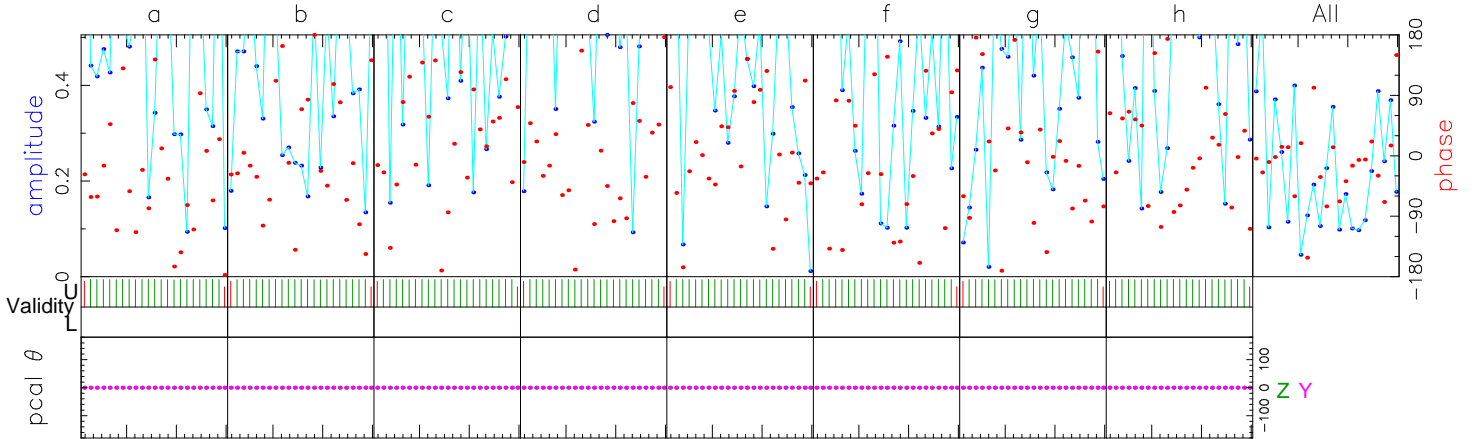
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0046/ZY..196Q8V Output file: /Exps/c201e/v1/1234/No0046/ZY.W.241.196Q8V

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	

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)	-27.9	Apriori accel (us/s/s)	4.44978188773E-05	Resid phase (deg)	-15.7	+/-	19.0

ph/seg (deg)	55.9	Theor.	45.5	Amplitude	0.169 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	87.5	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)	40.1	Inc. seg. avg.	0.174	Inc. frq. avg.	0.165	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	49.1	Inc. frq. avg.	0.165			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.252.196Q8V