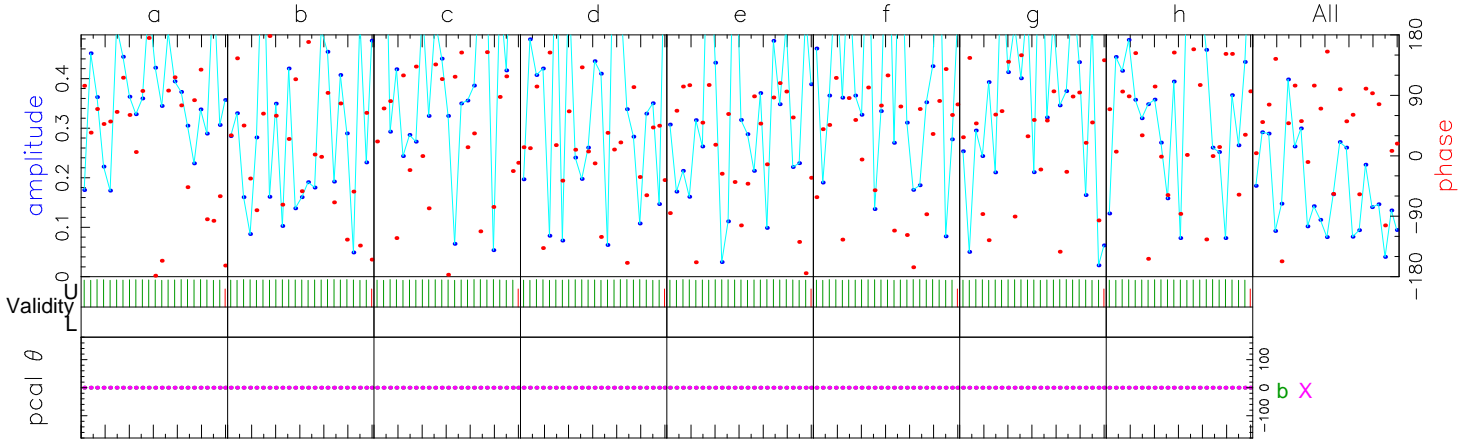


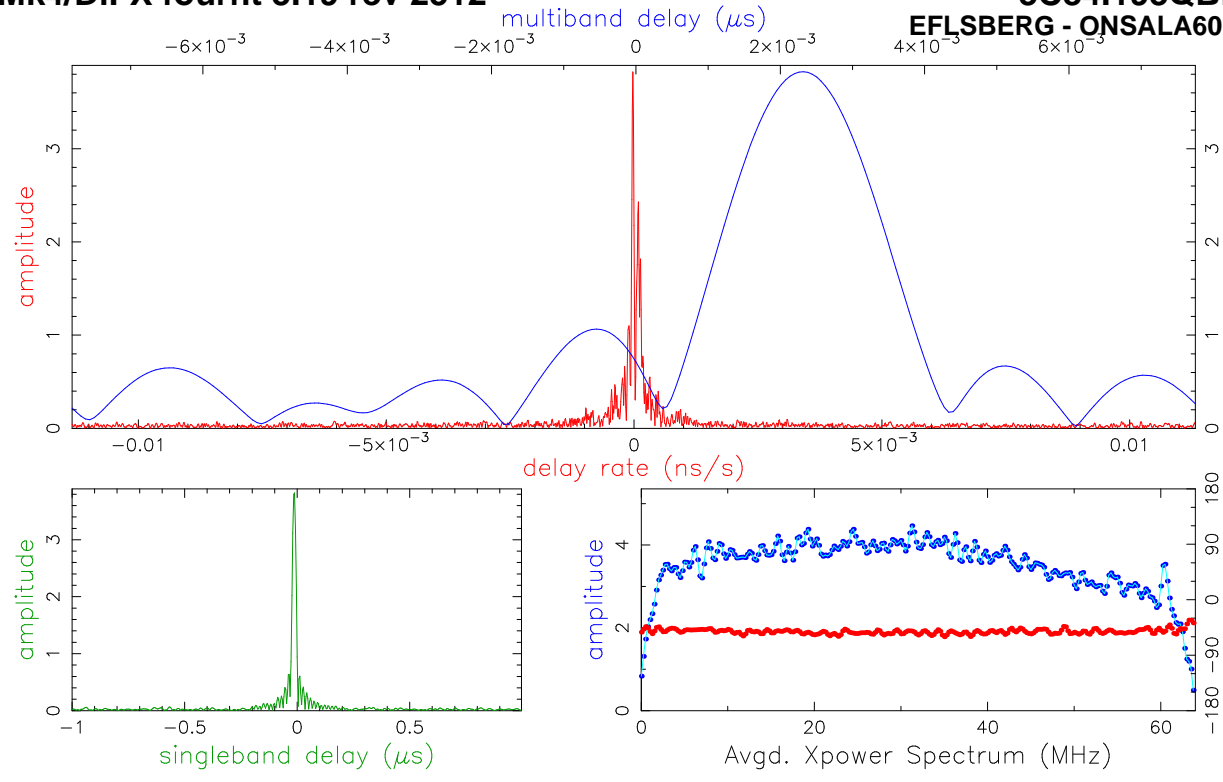
Fringe quality 0
 SNR 6.0
 Int time 354.682
 Amp 0.163
 Phase 65.0
 PFD 3.6e-01
 Delays (us)
 SBD -0.465284
 MBD -0.006778
 Fringe rate (Hz)
 -0.847287
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122445
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:X	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			
X	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)		1.01169145199E+03			1.01215135450E+03				Resid mbdelay (usec)	-6.77751E-03 +/- 1.8E-04	
Sband delay (usec)		1.01168607050E+03			-4.2239452E+01				Resid sbdelay (usec)	-4.65284E-01 +/- 1.4E-03	
Phase delay (usec)		1.01215135660E+03			-5.6999999E-07				Resid phdelay (usec)	2.09703E-06 +/- 6.1E-07	
Delay rate (us/s)		1.26865599975E+00			1.26866583591E+00				Resid rate (us/s)	-9.83616E-06 +/- 3.0E-09	
Total phase (deg)			308.7						Resid phase (deg)	65.0 +/- 19.0	
	RMS	Theor.	Amplitude	0.163 +/- 0.027					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	70.4	45.6	Search (2048X32)	0.111					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	93.6	79.7	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	27.4	26.9	Inc. seg. avg.	0.188					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	34.8	47.0	Inc. frq. avg.	0.162					Data rate(Mb/s): 2048		ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.23.193QBF

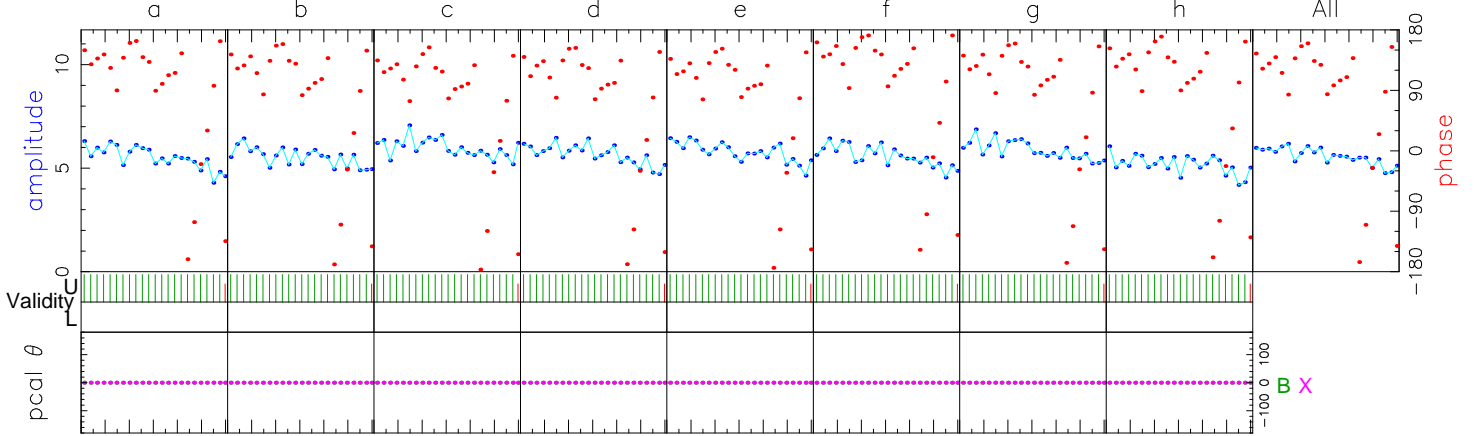


Fringe quality 5

SNR 201.9
Int time 359.520
Amp 3.894
Phase 127.5
PFD 0.0e+00
Delays (us)
SBD -0.013489
MBD 0.002265
Fringe rate (Hz)
-0.002068
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122446
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	133.2	125.6	117.6	121.0	120.1	142.3	127.1	134.8	Phase	127.5
	3.8	3.8	4.1	3.9	3.9	3.8	4.0	3.5	Ampl.	3.9
	253.5	253.1	253.8	253.4	253.8	253.6	253.6	253.1	Sbd box	253.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.08694099303E+02	Apriori delay (usec)	3.08707459346E+02	Resid mbdelay (usec)	2.26496E-03	+/-	5.4E-06
Sband delay (usec)	3.08693970596E+02	Apriori clock (usec)	-2.7799772E+01	Resid sbdelay (usec)	-1.34887E-02	+/-	4.3E-05
Phase delay (usec)	3.08707463457E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	4.1137E-06	+/-	1.8E-08
Delay rate (us/s)	-8.25540867177E-02	Apriori rate (us/s)	-8.25540627125E-02	Resid rate (us/s)	-2.40052E-08	+/-	8.8E-11
Total phase (deg)	324.8	Apriori accel (us/s/s)	-7.07977661602E-06	Resid phase (deg)	127.5	+/-	0.6

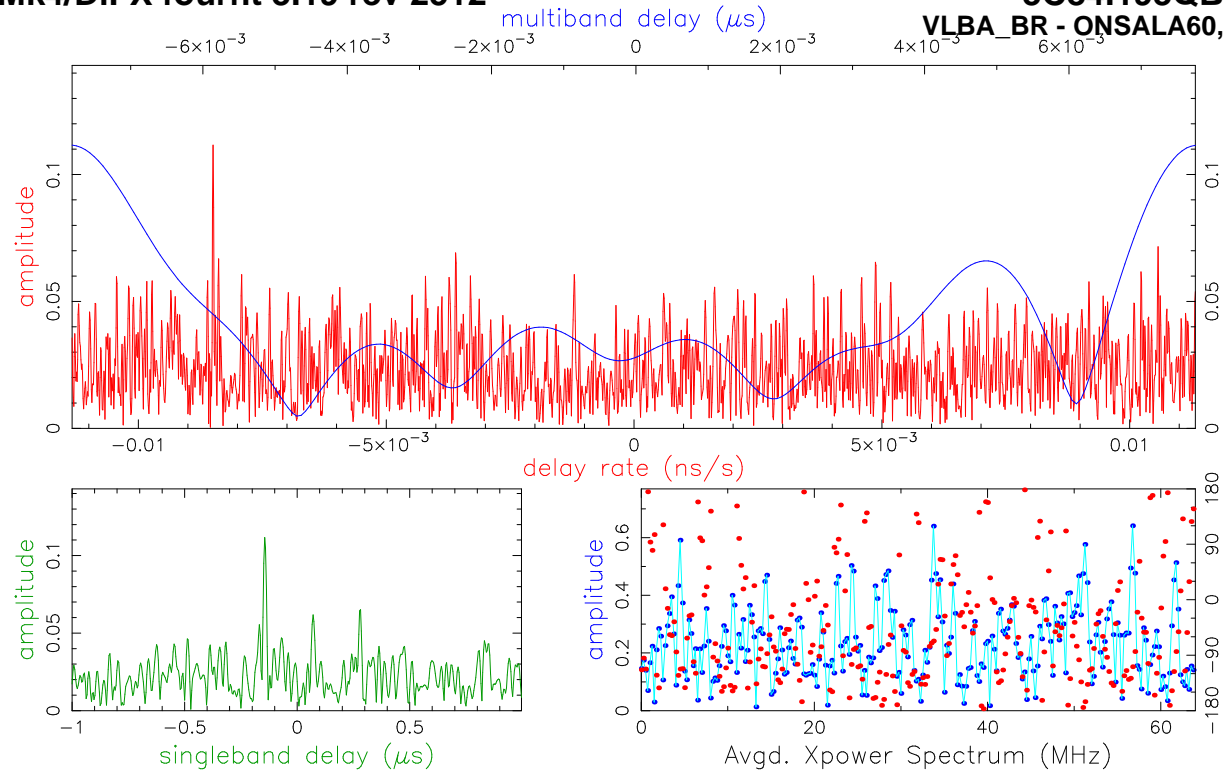
ph/seg (deg)	55.3	RMS	55.3	Theor.	1.4	Amplitude	3.894 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	44.6	Search (2048X32)	3.786	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	9.2	Inc. seg. avg.	5.586	Inc. frq. avg.	3.860	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	4.6	Inc. frq. avg.	3.860	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011
										ion window (TEC)	0.00	0.00

B: az 284.8 el 45.4 pa 55.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 624.161 -965.934 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BX..193QBF Output file: /Exps/c201d/v1/1234/No0057/BX.W.27.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bX
VLBA_BR - ONSALA60, fgroup W, pol RR

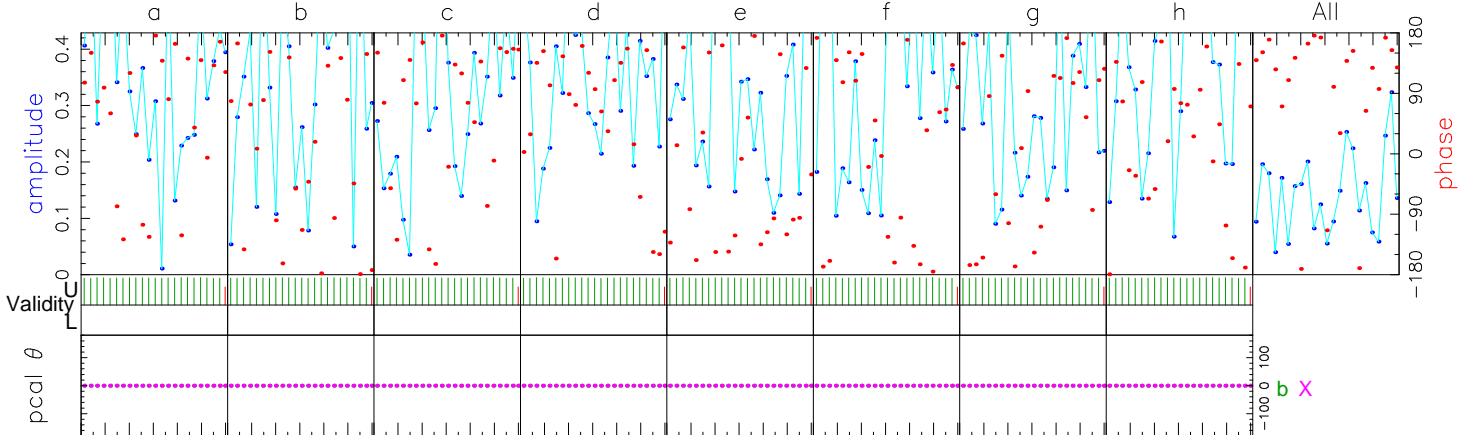


Fringe quality 0

SNR 5.8
Int time 354.683
Amp 0.143
Phase 144.9
PFD 8.5e-01
Delays (us)
SBD -0.143685
MBD -0.007811
Fringe rate (Hz)
-0.732430
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122449
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

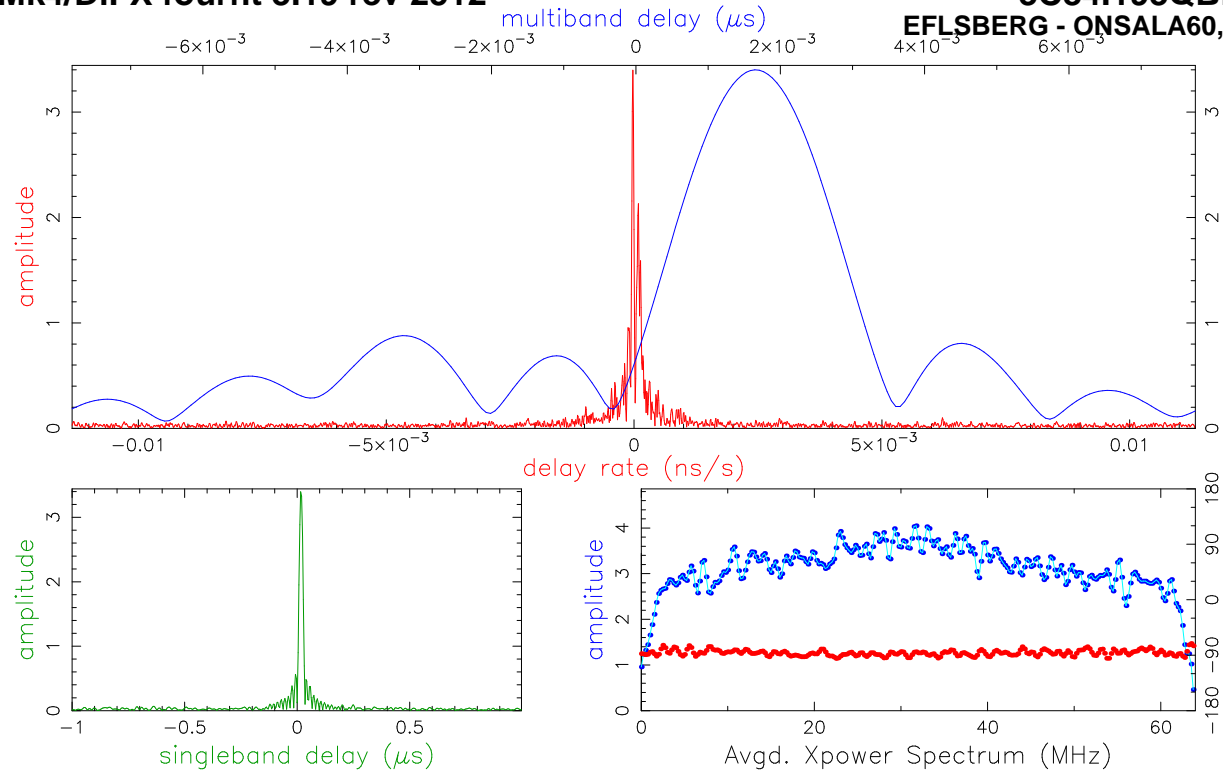


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.01200291863E+03			1.01215135450E+03				Resid mbdelay (usec)	-7.81087E-03	+/- 1.9E-04
Sband delay (usec)		1.01200766925E+03			-4.2239452E+01				Resid sbdelay (usec)	-1.43685E-01	+/- 1.5E-03
Phase delay (usec)		1.01215135918E+03			-5.6999999E-07				Resid phdelay (usec)	4.67412E-06	+/- 6.4E-07
Delay rate (us/s)		1.26865733312E+00			1.26866583591E+00				Resid rate (us/s)	-8.50279E-06	+/- 3.1E-09
Total phase (deg)			28.7		-1.29407507709E-05				Resid phase (deg)	144.9	+/- 19.8

	RMS	Theor.	Amplitude	0.143 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	46.8	47.6	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	71.1	83.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.5	28.1	Inc. seg. avg.	0.138	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	27.3	49.0	Inc. frq. avg.	0.158	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

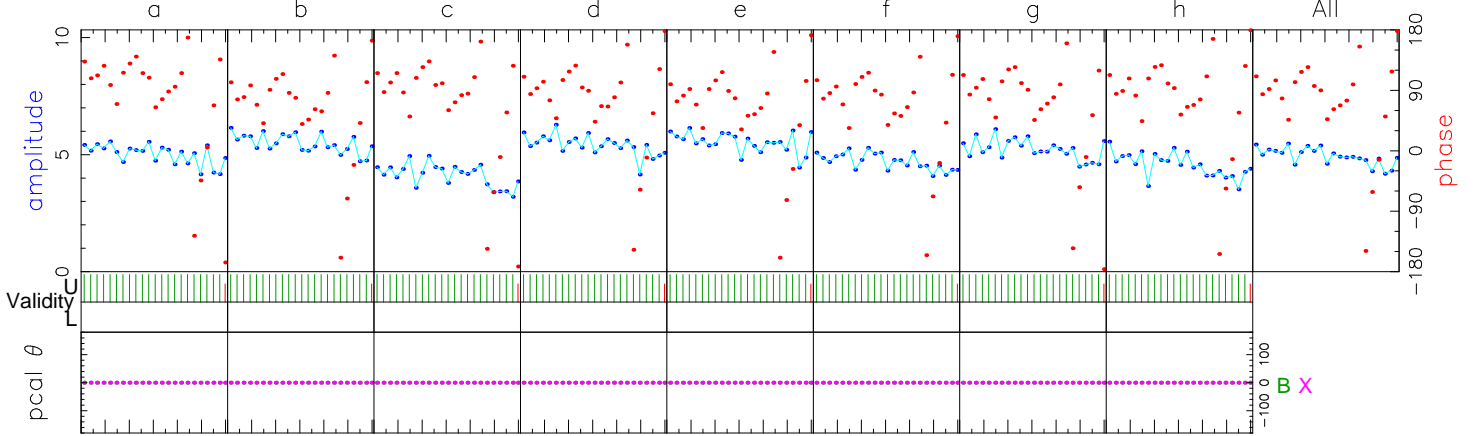
b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.43.193QBF



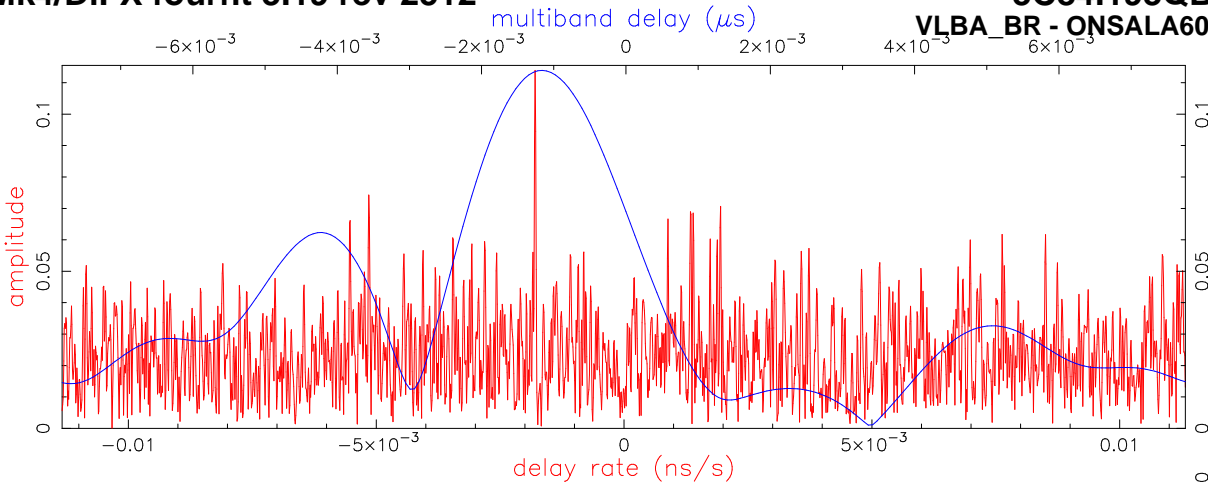
Fringe quality 5
 SNR 178.5
 Int time 359.520
 Amp 3.443
 Phase 91.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.017134
 MBD 0.001706
 Fringe rate (Hz)
 -0.002059
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122451
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

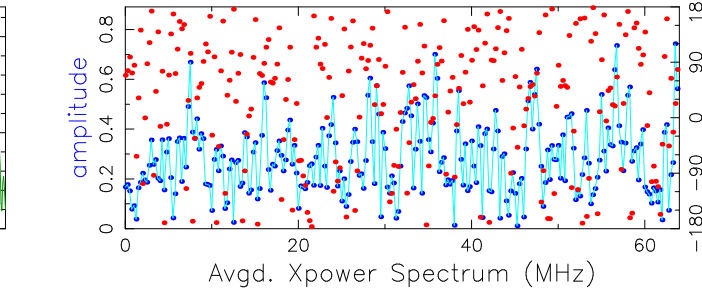
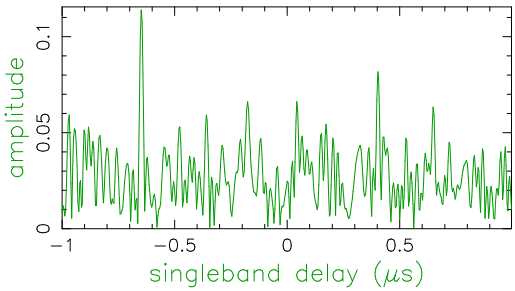


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	109.1	79.8	100.2	91.6	80.3	82.4	92.6	94.6	Phase	91.0
	3.5	3.8	2.9	3.8	3.7	3.3	3.6	3.1	Ampl.	3.4
	260.7	261.1	261.9	261.2	261.3	261.8	261.7	260.9	Sbd box	261.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.08724790428E+02		Apriori delay (usec)		3.08707459346E+02		Resid mbdelay (usec)		1.70608E-03	+/- 6.1E-06
Sband delay (usec)	3.08724592846E+02		Apriori clock (usec)		-2.7799772E+01		Resid sbdelay (usec)		1.71335E-02	+/- 4.8E-05
Phase delay (usec)	3.08707462279E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		2.93311E-06	+/- 2.1E-08
Delay rate (us/s)	-8.25540866150E-02		Apriori rate (us/s)		-8.25540627125E-02		Resid rate (us/s)		-2.39025E-08	+/- 1.0E-10
Total phase (deg)	288.2		Apriori accel (us/s/s)		-7.07977661602E-06		Resid phase (deg)		91.0	+/- 0.6

RMS Theor. Amplitude 3.443 +/- 0.019
 ph/seg (deg) 54.9 1.5 Search (2048X32) 3.334 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 44.5 2.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.1 0.9 Inc. seg. avg. 4.931 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.7 1.6 Inc. frq. avg. 3.446 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 284.8 el 45.4 pa 55.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 624.161 -965.934 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BX..193QBF Output file: /Exps/c201d/v1/1234/No0057/BX.W.52.193QBF

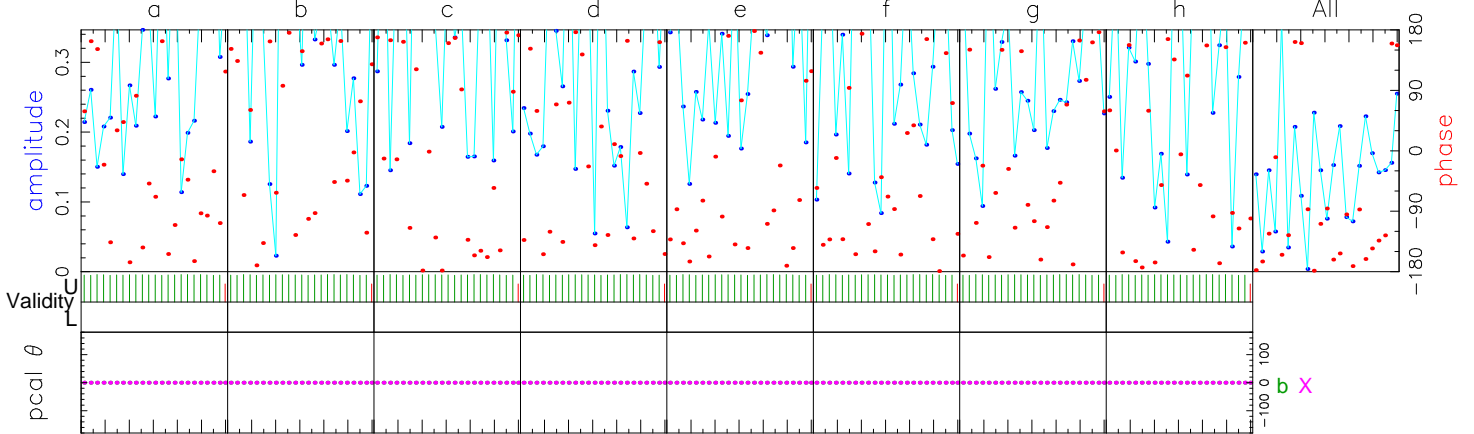


Fringe quality 0
SNR 5.9
Int time 354.682
Amp 0.116
Phase -154.7
PFD 6.3e-01
Delays (us)
SBD -0.647678
MBD -0.001134
Fringe rate (Hz)
-0.154596
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122453
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

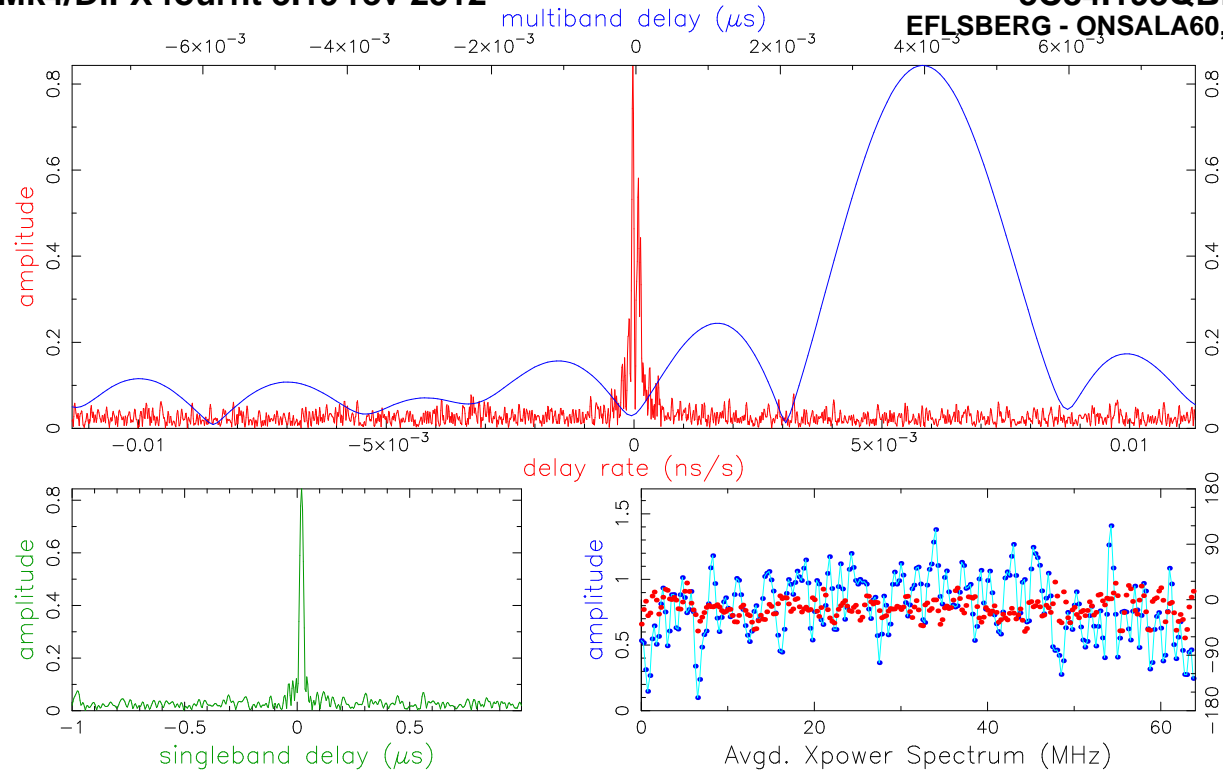
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.0	-179.2	-179.5	-139.5	-135.4	-137.0	-159.4	-175.7	Phase	-154.7
	0.1	0.1	0.2	0.0	0.2	0.1	0.1	0.1	Ampl.	0.1
	201.2	369.8	139.5	475.2	91.3	89.3	348.6	441.3	Sbd box	91.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.01150959581E+03		Apriori delay (usec)		1.01215135450E+03		Resid mbdelay (usec)		-1.13369E-03	+/- 1.8E-04
Sband delay (usec)	1.01150367650E+03		Apriori clock (usec)		-4.2239452E+01		Resid sbdelay (usec)		-6.47678E-01	+/- 1.5E-03
Phase delay (usec)	1.01215134951E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-4.98982E-06	+/- 6.3E-07
Delay rate (us/s)	1.26866404120E+00		Apriori rate (us/s)		1.26866583591E+00		Resid rate (us/s)		-1.79471E-06	+/- 3.0E-09
Total phase (deg)	89.0		Apriori accel (us/s/s)		-1.29407507709E-05		Resid phase (deg)		-154.7	+/- 19.5

	RMS	Theor.	Amplitude	0.116 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	48.4	46.7	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	73.4	81.4	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	28.5	27.5	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.7	48.0	Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.63.193QBF

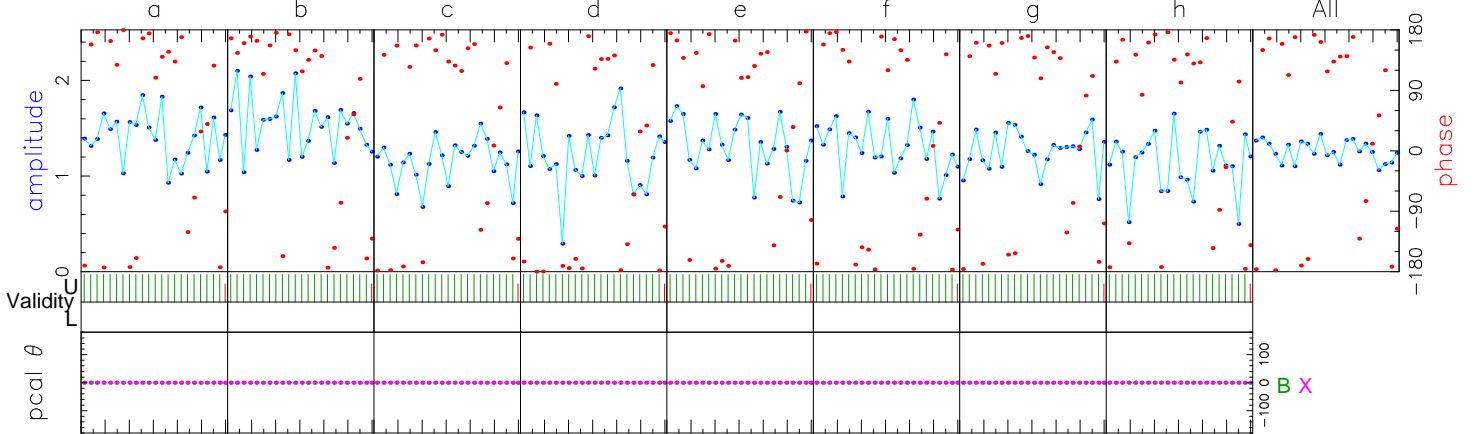


Fringe quality 7

SNR 43.7
 Int time 359.520
 Amp 0.843
 Phase 163.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.019325
 MBD 0.003966
 Fringe rate (Hz)
 -0.002057
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

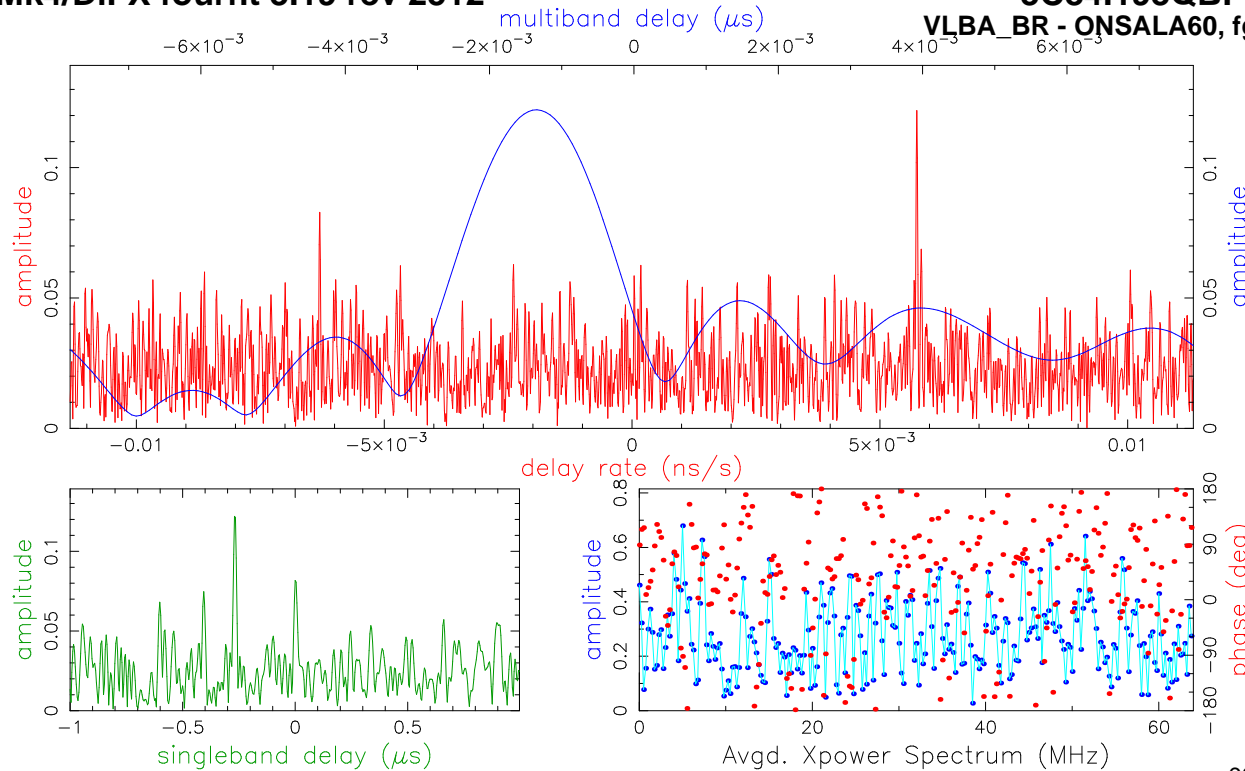
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122455
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



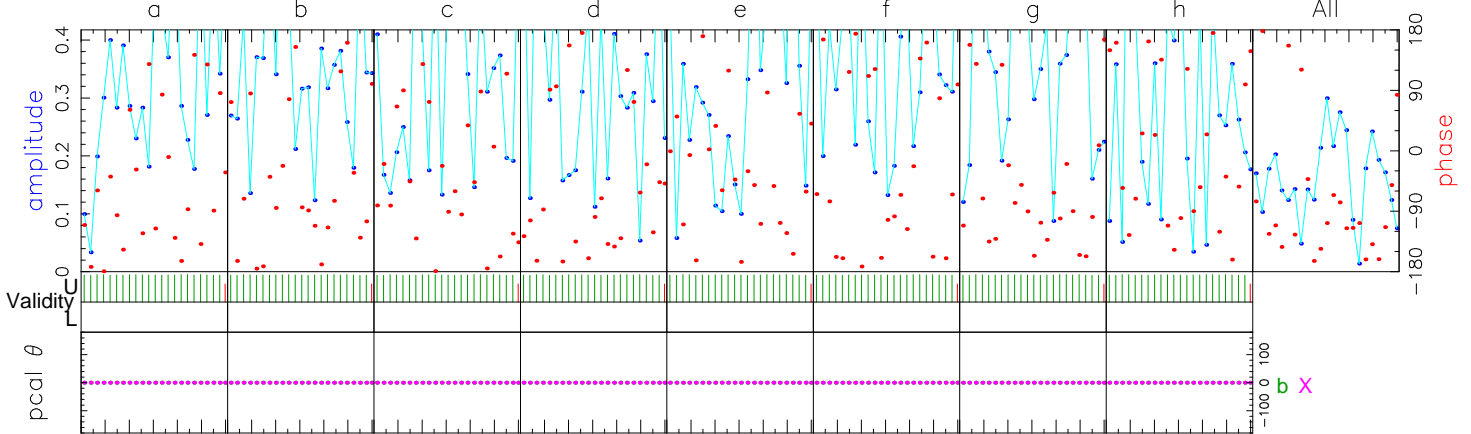
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	165.7	158.2	160.8	167.0	159.6	176.2	162.1	157.4	Phase	163.5
	0.9	1.1	0.8	0.9	0.8	0.9	0.8	0.7	Ampl.	0.8
	262.0	261.8	261.8	261.9	261.9	262.2	262.1	261.5	Sbd box	261.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.0872705803E+02		Apriori delay (usec)		3.08707459346E+02		Resid mbdelay (usec)		3.96646E-03	+/- 2.5E-05
Sband delay (usec)	3.08726783846E+02		Apriori clock (usec)		-2.7799772E+01		Resid sbdelay (usec)		1.93245E-02	+/- 2.0E-04
Phase delay (usec)	3.08707464618E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		5.27196E-06	+/- 8.5E-08
Delay rate (us/s)	-8.25540865958E-02		Apriori rate (us/s)		-8.25540627125E-02		Resid rate (us/s)		-2.38834E-08	+/- 4.1E-10
Total phase (deg)	0.8		Apriori accel (us/s/s)		-7.07977661602E-06		Resid phase (deg)		163.5	+/- 2.6

ph/seg (deg) 56.1 6.3 Search (2048X32) 0.838 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 51.5 11.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.7 3.7 Inc. seg. avg. 1.256 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.5 6.5 Inc. frq. avg. 0.846 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 284.8 el 45.4 pa 55.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 624.161 -965.934 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BX..193QBF Output file: /Exps/c201d/v1/1234/No0057/BX.W.73.193QBF



Fringe quality 0
SNR 6.4
Int time 354.683
Amp 0.139
Phase -119.5
PFD 3.4e-02
Delays (us)
SBD -0.267674
MBD -0.001285
Fringe rate (Hz)
0.495657
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122457
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

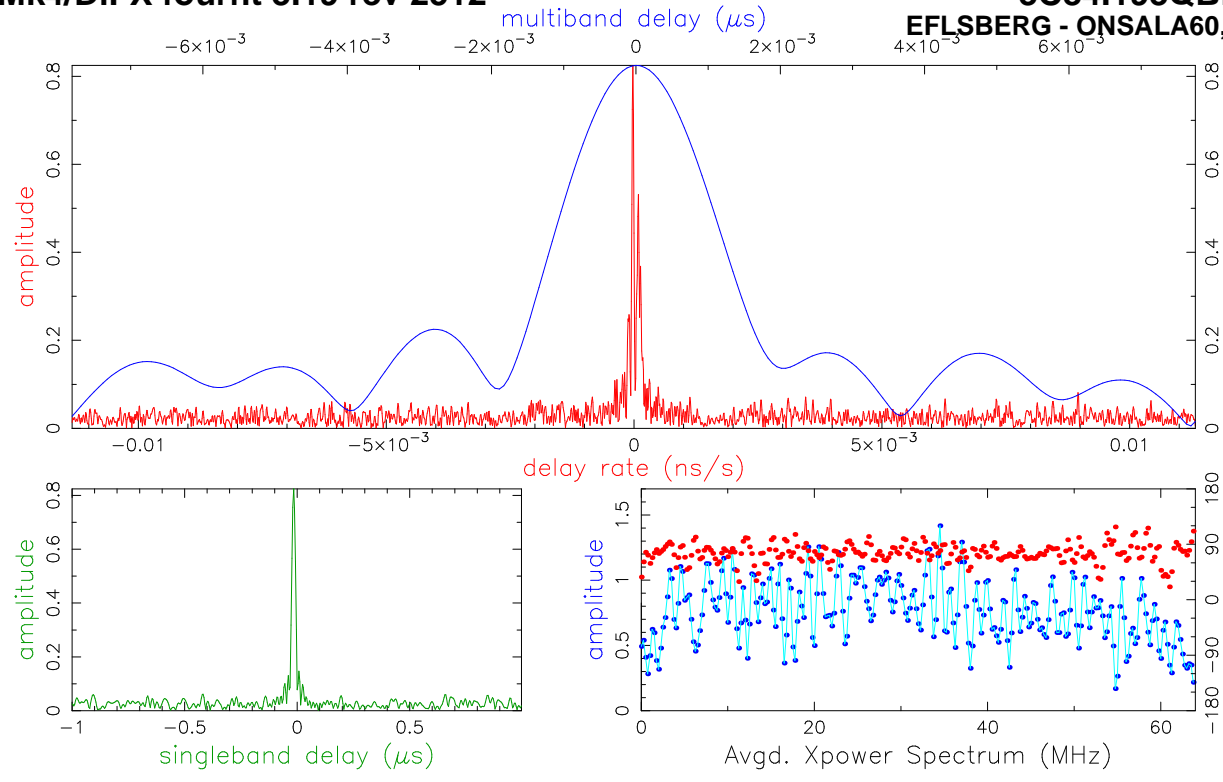


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-115.9	-110.1	-110.0	-133.2	-69.0	-161.4	-111.1	-121.4	Phase	-119.5
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	342.0	153.5	257.1	123.2	466.6	258.6	463.7	41.7	Sbd box	188.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.01188444439E+03	Apriori delay (usec)	1.01215135450E+03	Resid mbdelay (usec)	-1.28511E-03	+/-	1.7E-04
Sband delay (usec)	1.01188368050E+03	Apriori clock (usec)	-4.2239452E+01	Resid sbdelay (usec)	-2.67674E-01	+/-	1.3E-03
Phase delay (usec)	1.01215135065E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-3.85405E-06	+/-	5.7E-07
Delay rate (us/s)	1.26867159000E+00	Apriori rate (us/s)	1.26866583591E+00	Resid rate (us/s)	5.75409E-06	+/-	2.8E-09
Total phase (deg)	124.2	Apriori accel (us/s/s)	-1.29407507709E-05	Resid phase (deg)	-119.5	+/-	17.8

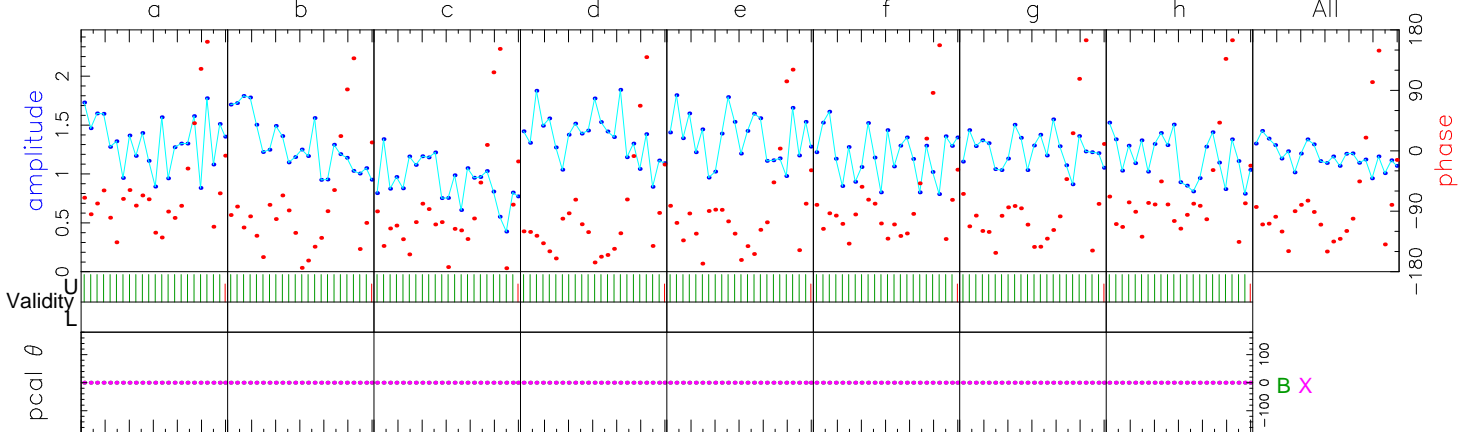
ph/seg (deg)	54.2	Theor.	42.7	Amplitude	0.139 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.1	Search (2048X32)	0.120	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	28.2	Inc. seg. avg.	0.142	Inc. frq. avg.	0.135	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	31.7	Inc. frq. avg.	0.135			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9727.787 -1484.879 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bX..193QBF Output file: /Exps/c201d/v1/1234/No0057/bX.W.77.193QBF



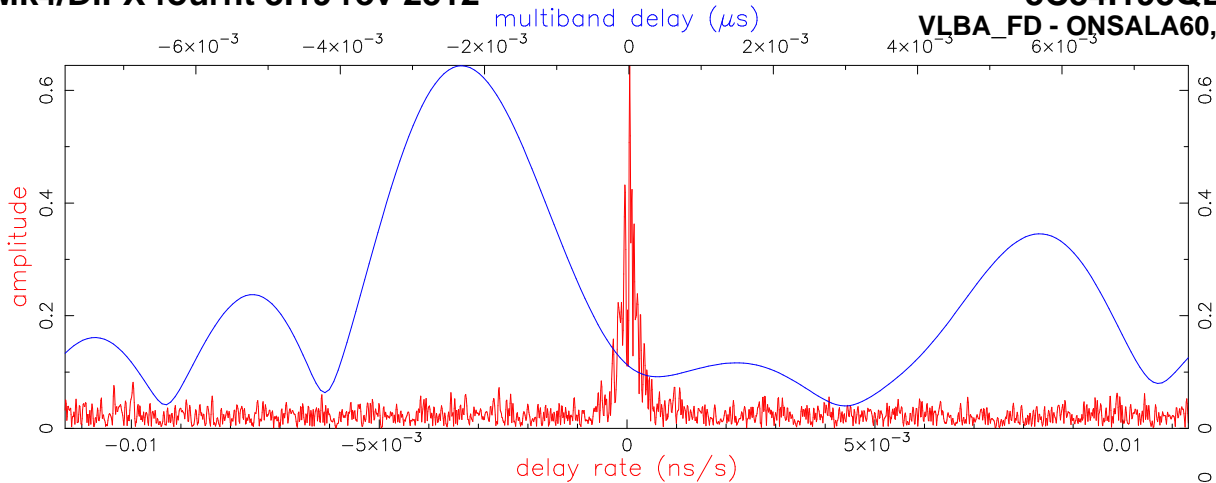
Fringe quality 6
SNR 42.8
Int time 359.520
Amp 0.825
Phase -105.5
PFD 0.0e+00
Delays (us)
SBD -0.015724
MBD 0.000005
Fringe rate (Hz)
-0.002070
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



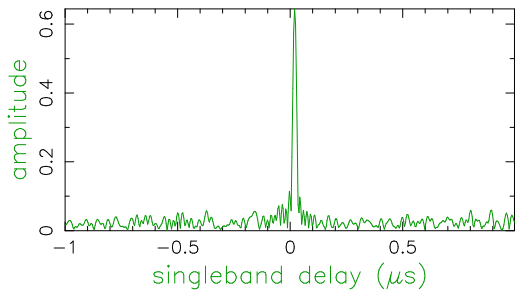
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.0	-111.0	-111.7	-125.7	-114.4	-97.3	-109.7	-89.5	Phase	-105.5
	0.9	0.8	0.6	1.0	0.9	0.9	0.8	0.8	Ampl.	0.8
	252.7	252.4	253.3	252.9	253.3	253.6	253.1	252.1	Sbd box	253.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.08691839053E+02		Apriori delay (usec)		3.08707459346E+02		Resid mbdelay (usec)		4.70753E-06	+/- 2.5E-05
Sband delay (usec)	3.08691735846E+02		Apriori clock (usec)		-2.7799772E+01		Resid sbdelay (usec)		-1.57235E-02	+/- 2.0E-04
Phase delay (usec)	3.08707455944E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-3.40161E-06	+/- 8.6E-08
Delay rate (us/s)	-8.25540867432E-02		Apriori rate (us/s)		-8.25540627125E-02		Resid rate (us/s)		-2.40307E-08	+/- 4.2E-10
Total phase (deg)	91.8		Apriori accel (us/s/s)		-7.07977661602E-06		Resid phase (deg)		-105.5	+/- 2.7

ph/seg (deg) 55.3 6.4 Search (2048X32) 0.821 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 46.0 11.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 15.3 3.8 Inc. seg. avg. 1.178 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.2 6.6 Inc. frq. avg. 0.846 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 284.8 el 45.4 pa 55.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 624.161 -965.934 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/BX..193QBF Output file: /Exps/c201d/v1/1234/No0057/BX.W.86.193QBF

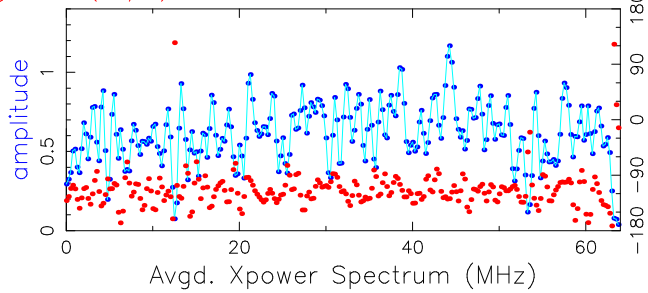


Fringe quality 4

SNR 33.0
 Int time 350.334
 Amp 0.644
 Phase 139.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.019951
 MBD -0.002307
 Fringe rate (Hz)
 0.004720
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

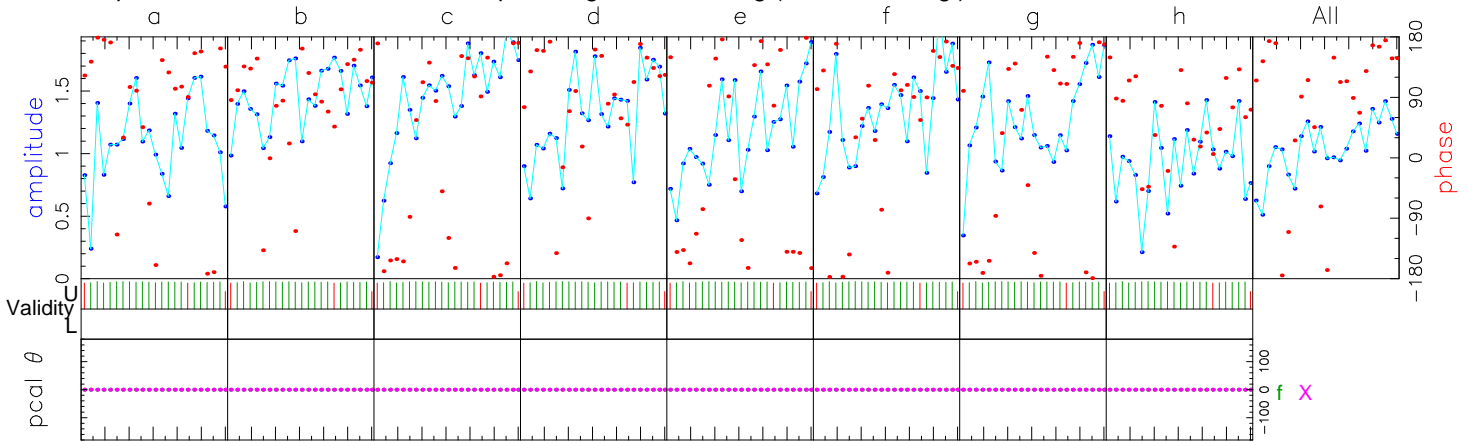


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122503
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



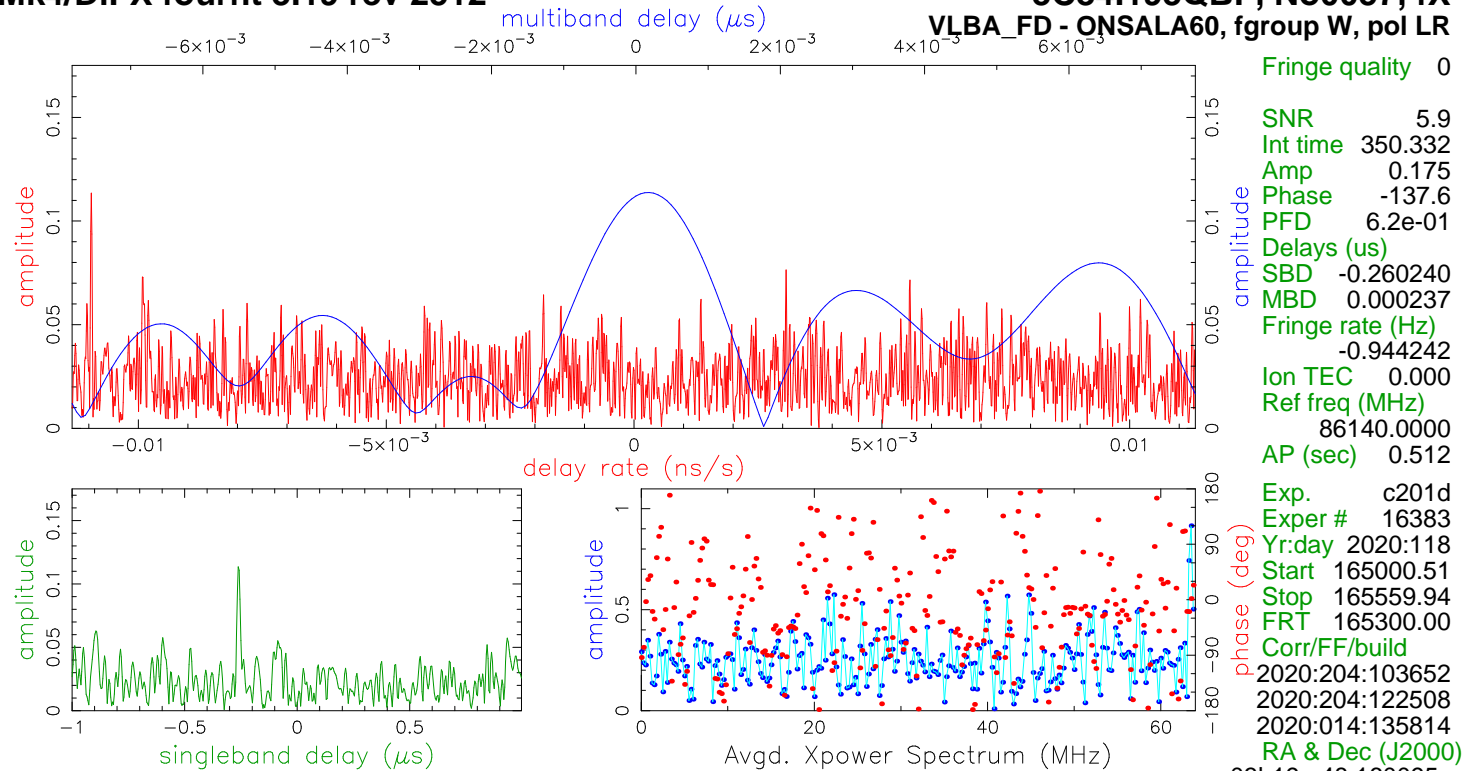
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.20086328643E+03	Apriori delay (usec)	2.20084996838E+03	Resid mbdelay (usec)	-2.30695E-03	+/-	3.3E-05
Sband delay (usec)	2.20086991963E+03	Apriori clock (usec)	-3.6906921E+01	Resid sbdelay (usec)	1.99513E-02	+/-	2.6E-04
Phase delay (usec)	2.20084997288E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	4.49875E-06	+/-	1.1E-07
Delay rate (us/s)	1.29760844662E+00	Apriori rate (us/s)	1.29760839183E+00	Resid rate (us/s)	5.47928E-08	+/-	5.4E-10
Total phase (deg)	238.9	Apriori accel (us/s/s)	-3.68307323438E-05	Resid phase (deg)	139.5	+/-	3.5

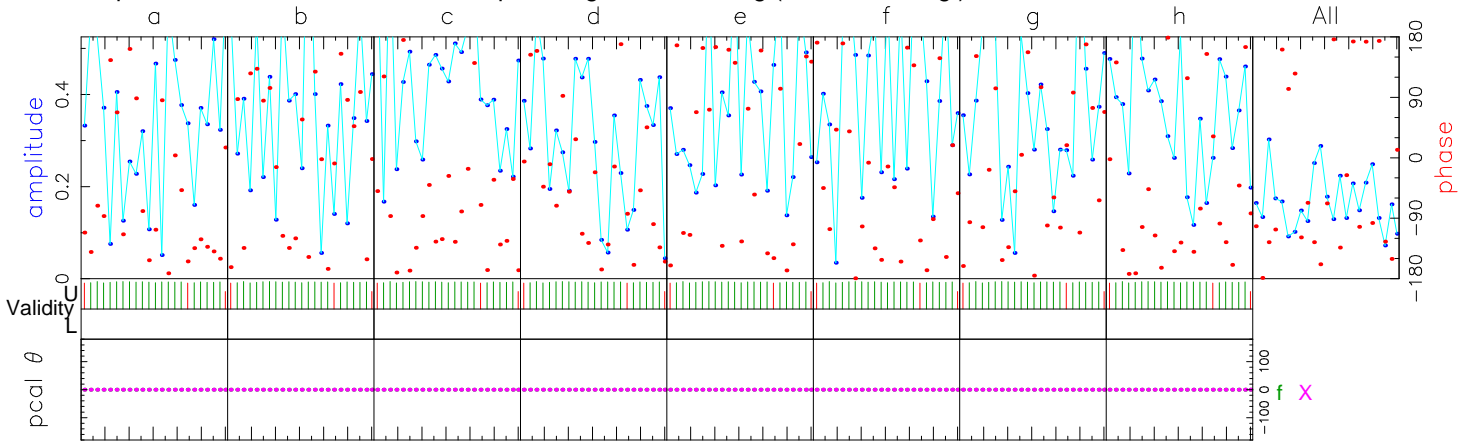
ph/seg (deg)	59.1	RMS	71.4	Theor.	8.3	Amplitude	0.644 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	71.4	Search (2048X32)	0.639	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	40.3	Inc. seg. avg.	1.036	Inc. frq. avg.	0.760	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	25.2	Inc. frq. avg.	0.760	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 60.3 el 52.1 pa -91.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9975.983 -4705.797 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fX..193QBF Output file: /Exps/c201d/v1/1234/No0057/fX.W.102.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

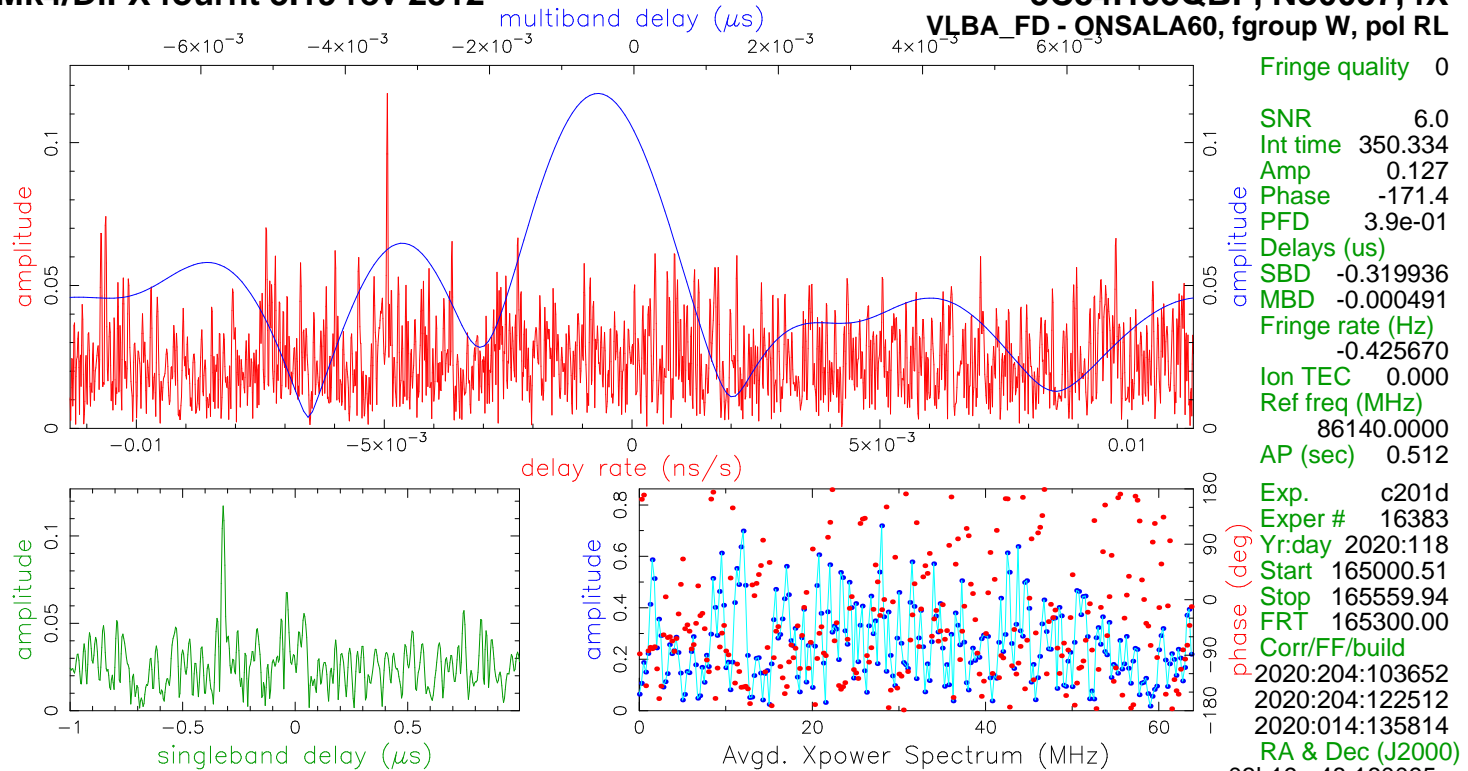


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.6	168.1	-104.1	-72.1	154.9	-142.7	-140.0	-133.0	Phase	-137.6
	0.2	0.2	0.3	0.1	0.2	0.1	0.2	0.3	Ampl.	0.2
	192.4	503.0	189.7	374.4	504.6	209.0	80.2	190.3	Sbd box	190.4
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.20058457997E+03		Apriori delay (usec)		2.20084996838E+03		Resid mbdelay (usec)		2.36590E-04	+/- 1.8E-04
Sband delay (usec)	2.20058972788E+03		Apriori clock (usec)		-3.6906921E+01		Resid sbdelay (usec)		-2.60240E-01	+/- 1.5E-03
Phase delay (usec)	2.20084996394E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-4.43724E-06	+/- 6.3E-07
Delay rate (us/s)	1.29759743012E+00		Apriori rate (us/s)		1.29760839183E+00		Resid rate (us/s)		-1.09617E-05	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.68307323438E-05		Resid phase (deg)		-137.6	+/- 19.4

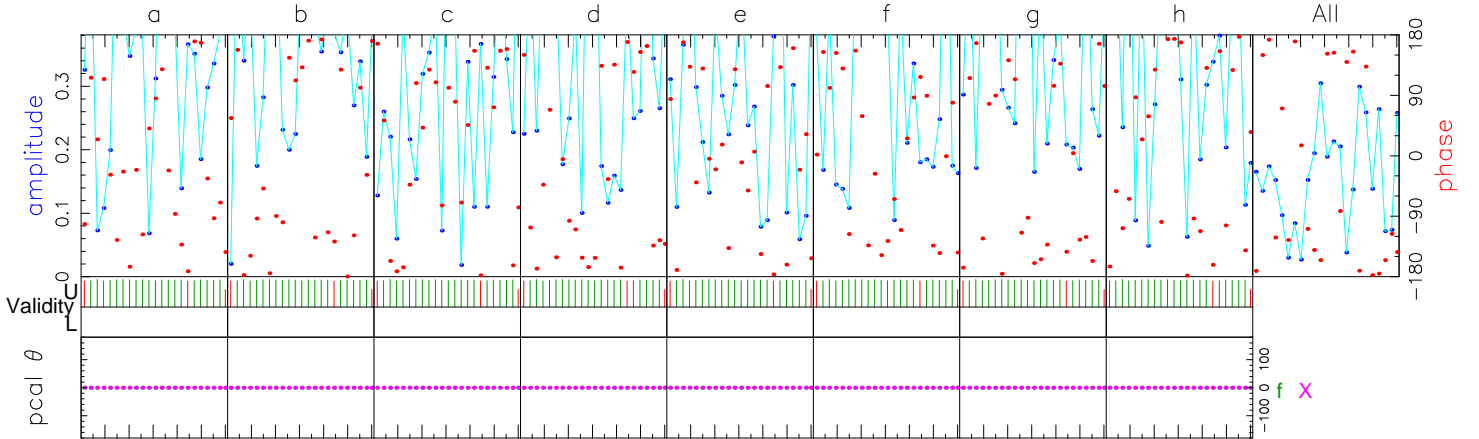
	RMS	Theor.	Amplitude	0.175 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	60.3	46.6	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	71.3	81.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	47.2	27.5	Inc. seg. avg.	0.195	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	51.1	48.0	Inc. frq. avg.	0.198	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 60.3 el 52.1 pa -91.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9975.983 -4705.797 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fX..193QBF Output file: /Exps/c201d/v1/1234/No0057/fX.W.127.193QBF

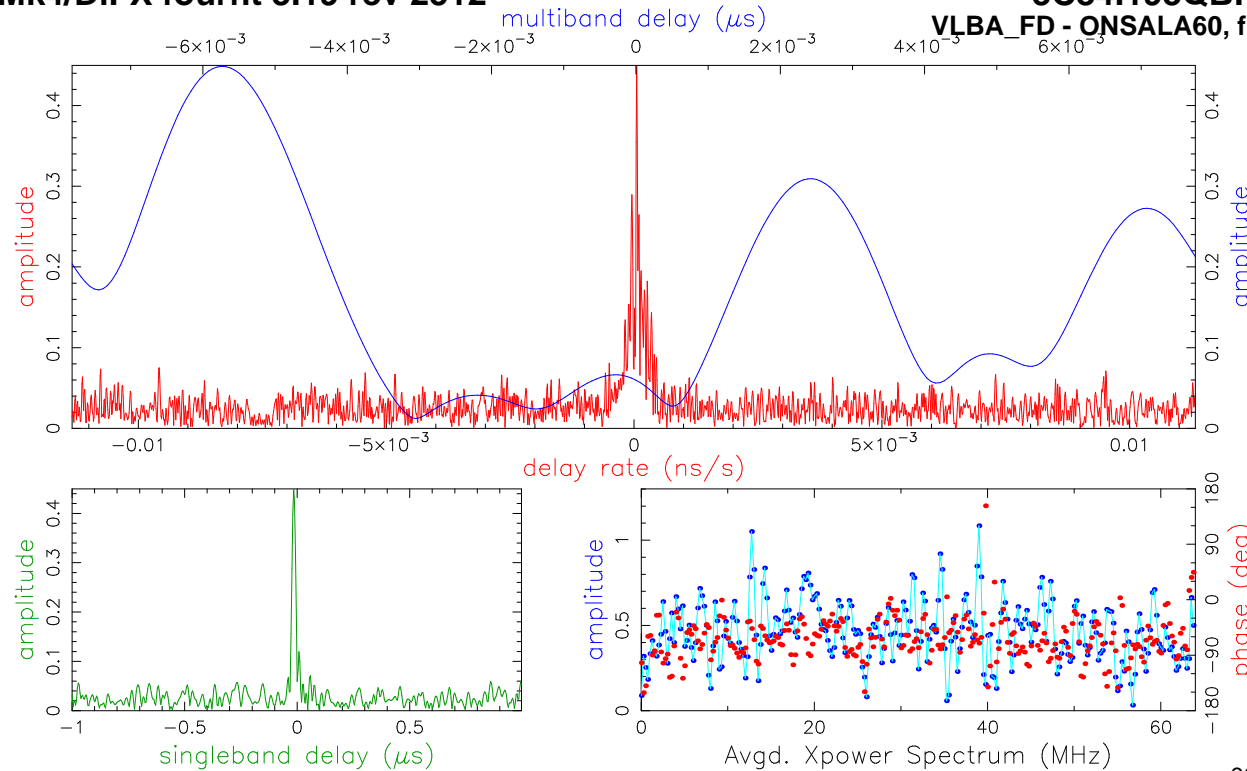


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-122.6	-167.2	125.7	-159.0	130.4	178.3	-171.4	-155.3	Phase	-171.4
	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	115.5	175.5	169.0	175.6	318.4	426.2	246.6	266.2	Sbd box	175.1
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.20053697775E+03		Apriori delay (usec)	2.20084996838E+03	Resid mbdelay (usec)	-4.90630E-04	+/-	1.8E-04		
Sband delay (usec)	2.20053003213E+03		Apriori clock (usec)	-3.6906921E+01	Resid sbdelay (usec)	-3.19936E-01	+/-	1.4E-03		
Phase delay (usec)	2.20084996285E+03		Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	-5.52804E-06	+/-	6.2E-07		
Delay rate (us/s)	1.29760345023E+00		Apriori rate (us/s)	1.29760839183E+00	Resid rate (us/s)	-4.94160E-06	+/-	3.0E-09		
Total phase (deg)		-72.0	Apriori accel (us/s/s)	-3.68307323438E-05	Resid phase (deg)	-171.4	+/-	19.1		

	RMS	Theor.	Amplitude	0.127 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.5	45.8	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	77.3	79.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.4	27.0	Inc. seg. avg.	0.129	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	55.2	47.1	Inc. frq. avg.	0.132	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

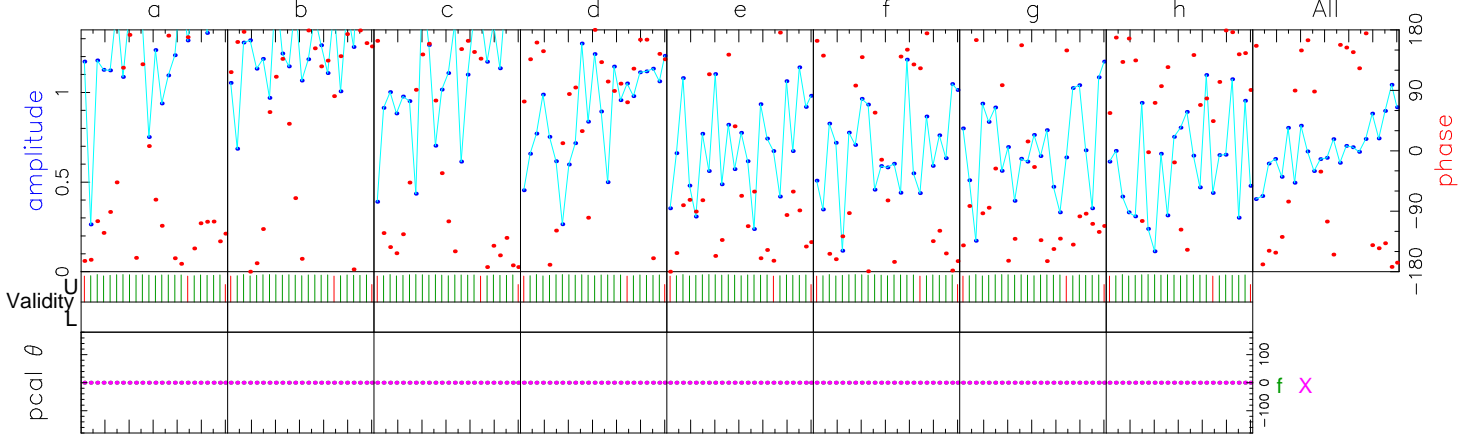


Fringe quality 7

SNR 23.0
Int time 350.332
Amp 0.450
Phase -170.8
PFD 0.0e+00
Delays (us)
SBD -0.014960
MBD -0.005714
Fringe rate (Hz) 0.004700
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

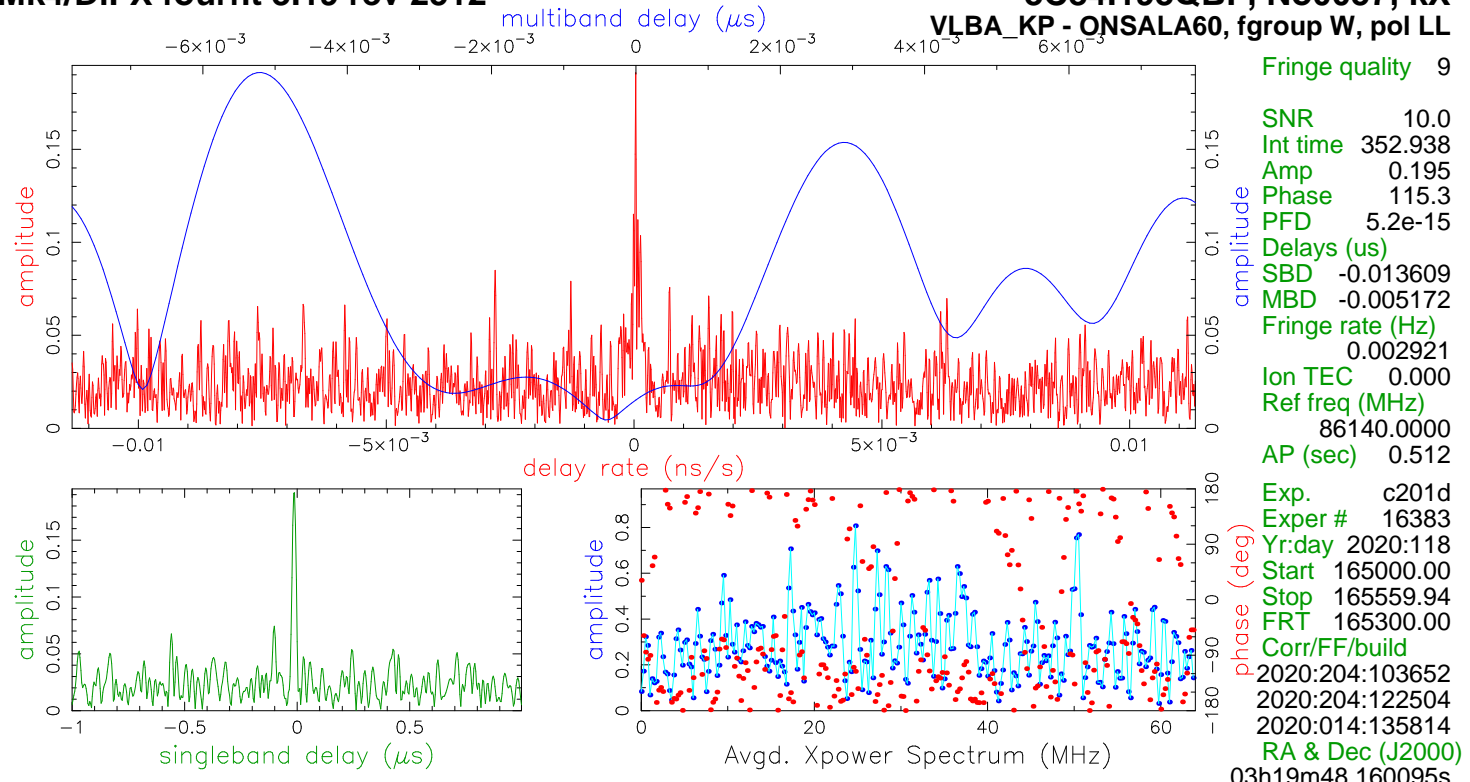
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-137.9	156.2	-167.0	135.2	-122.9	-179.5	-118.4	138.9	Phase	-170.8
	0.8	0.9	0.7	0.5	0.4	0.4	0.4	0.3	Ampl.	0.6
	252.9	252.5	253.1	252.8	252.5	253.1	252.8	251.3	Sbd box	253.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.20082862927E+03		Apriori delay (usec)		2.20084996838E+03		Resid mbdelay (usec)		-5.71411E-03	+/- 4.7E-05
Sband delay (usec)	2.20083500863E+03		Apriori clock (usec)		-3.6906921E+01		Resid sbdelay (usec)		-1.49597E-02	+/- 3.7E-04
Phase delay (usec)	2.20084996287E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-5.50797E-06	+/- 1.6E-07
Delay rate (us/s)	1.29760844639E+00		Apriori rate (us/s)		1.29760839183E+00		Resid rate (us/s)		5.45632E-08	+/- 7.7E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.68307323438E-05		Resid phase (deg)		-170.8	+/- 5.0

ph/seg (deg) 56.0 11.9 Theor. Amplitude 0.450 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.5 20.8 Search (2048X32) 0.445 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.1 7.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.2 12.3 Inc. seg. avg. 0.671 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9975.983 -4705.797 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fX..193QBF Output file: /Exps/c201d/v1/1234/No0057/fX.W.89.193QBF



Fringe quality 9

SNR 10.0

Int time 352.938

Amp 0.195

Phase 115.3

PFD 5.2e-15

Delays (us)

SBD -0.013609

MBD -0.005172

Fringe rate (Hz) 0.002921

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c201d

Exper # 16383

Yr:day 2020:118

Start 165000.00

Stop 165559.94

FRT 165300.00

Corr/FF/build

2020:204:103652

2020:204:122504

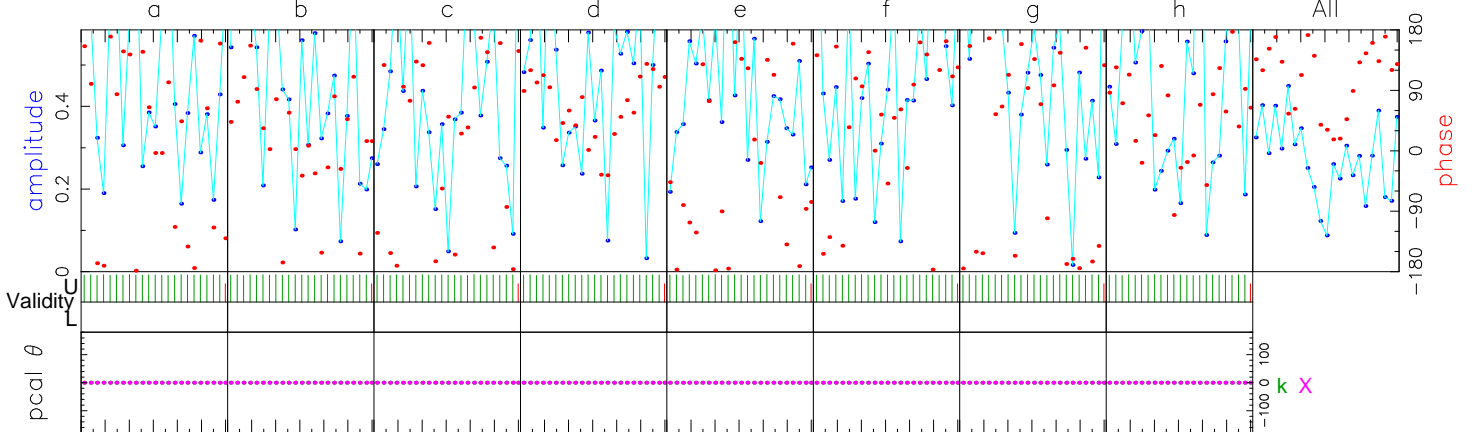
2020:014:135814

RA & Dec (J2000)

03h19m48.160095s

+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	146.8	65.9	146.1	72.3	-175.3	129.6	152.4	61.8		
Sband delay (usec)	0.2	0.2	0.2	0.4	0.2	0.3	0.3	0.3		
Phase delay (usec)	251.9	252.1	254.7	253.2	244.2	253.4	252.7	252.3		
Delay rate (us/s)										
Total phase (deg)			333.0							
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)										

ph/seg (deg) 51.1 27.4 Search (2048X32) 0.189 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 62.7 47.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 50.8 16.2 Inc. seg. avg. 0.246 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 44.2 28.2 Inc. frq. avg. 0.250 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

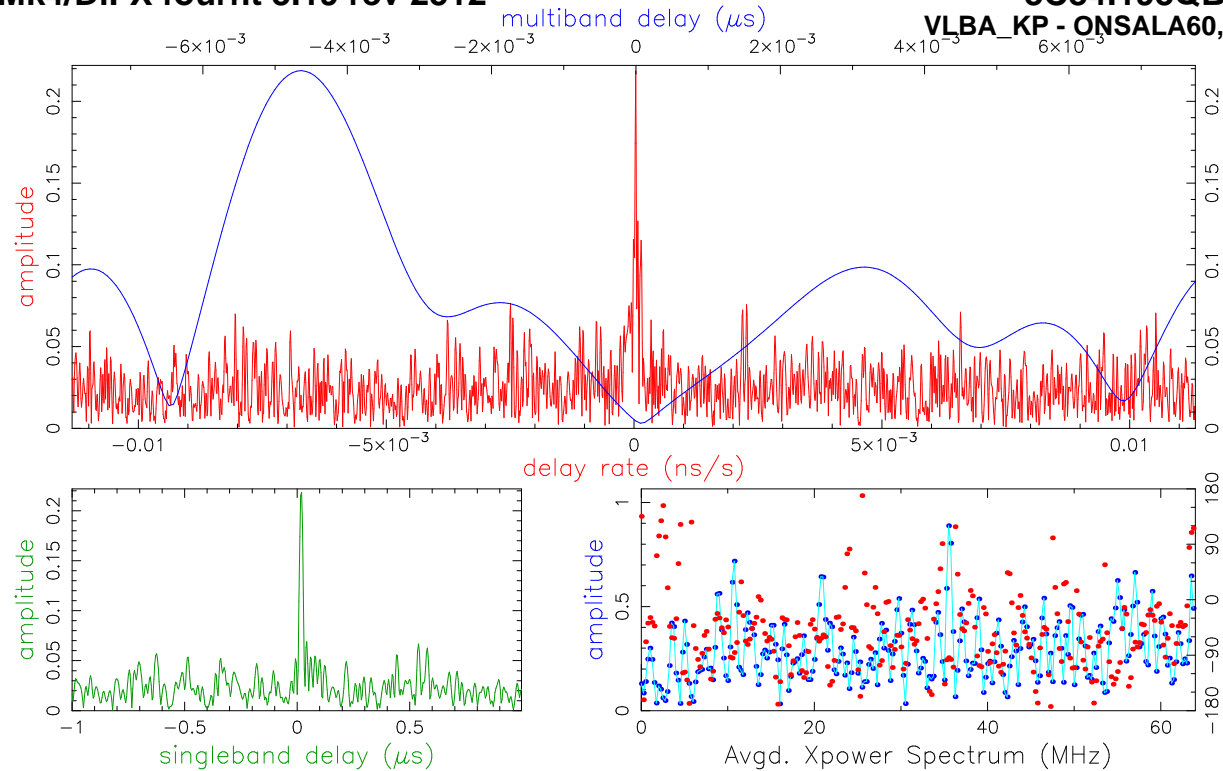
k: az 61.4 el 47.0 pa -85.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -10558.376 -4018.333 ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kX..193QBF Output file: /Exps/c201d/v1/1234/No0057/kX.W.107.193QBF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kX

VLBA_KP - ONSALA60, fgroup W, pol RR

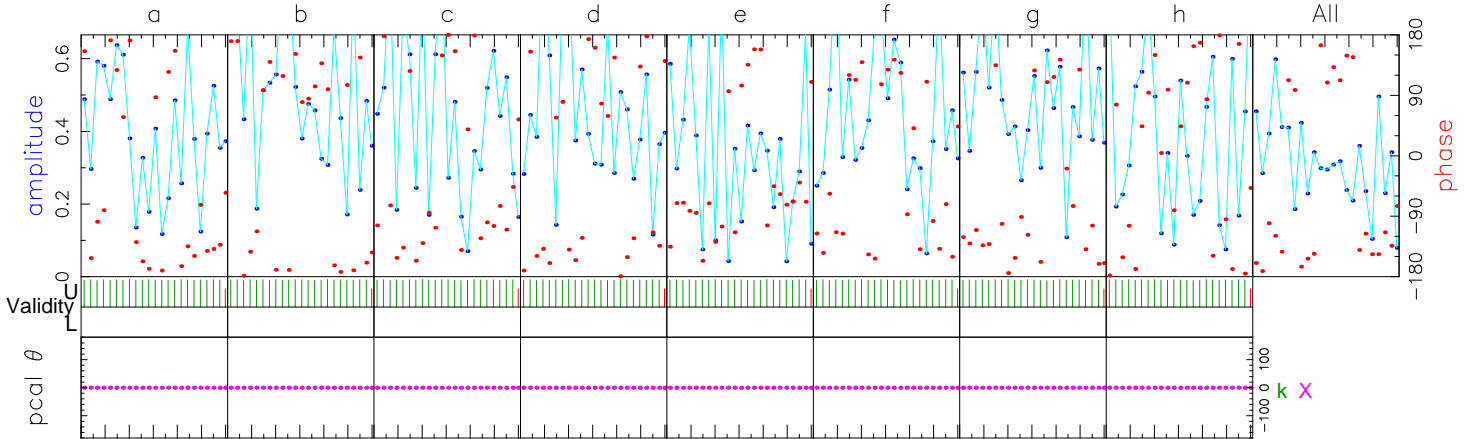


Fringe quality 9

SNR 11.4
 Int time 352.938
 Amp 0.222
 Phase -164.1
 PFD 1.9e-21
 Delays (us)
 SBD 0.017935
 MBD -0.004689
 Fringe rate (Hz) 0.002752
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

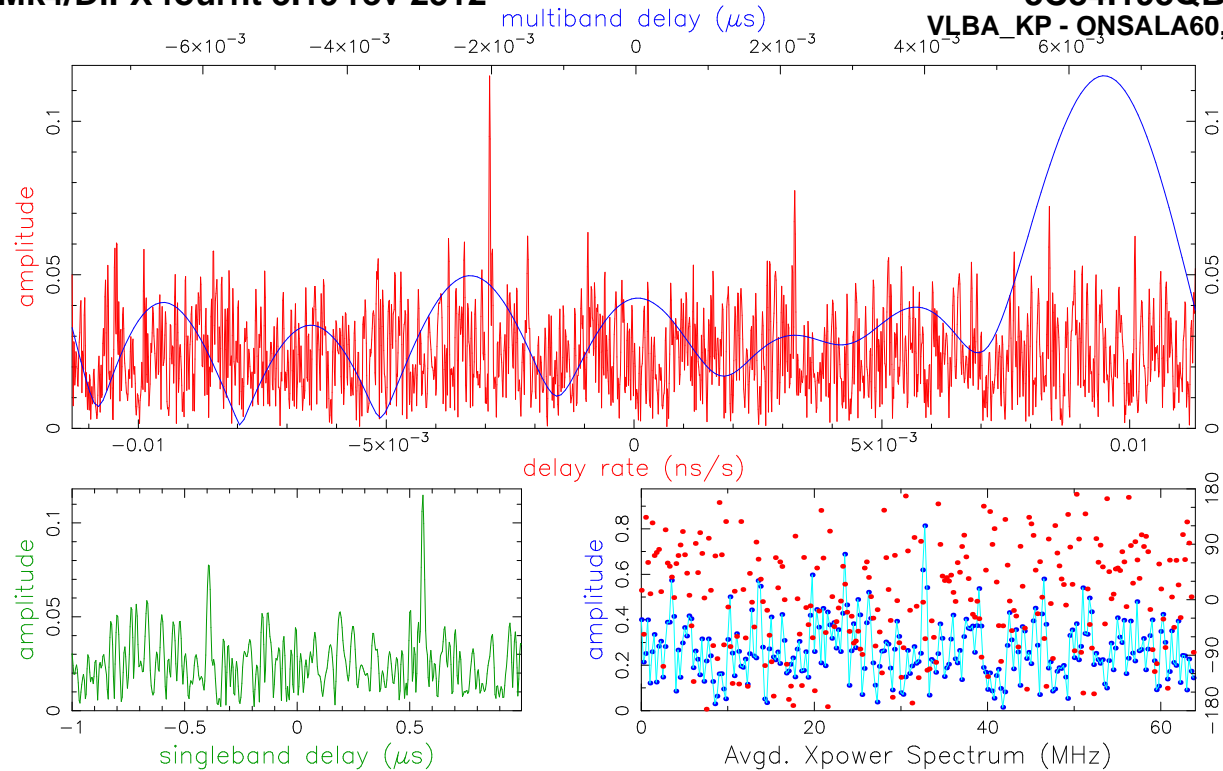
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122507
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



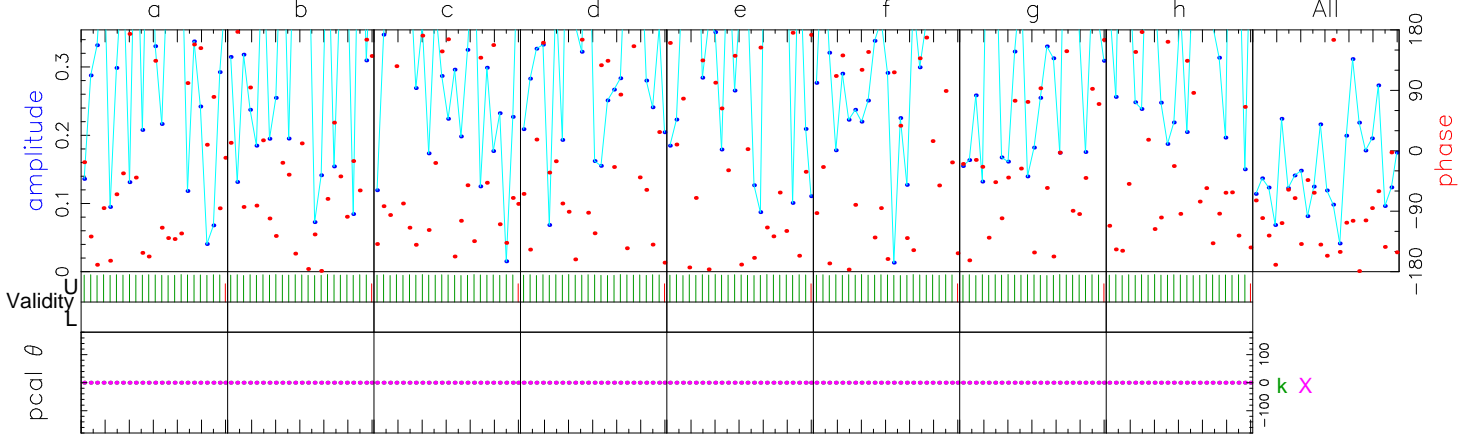
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-163.4	163.3	-134.0	-176.9	-95.1	-167.2	-156.6	152.0	Phase	-164.1
	0.2	0.4	0.3	0.3	0.2	0.2	0.3	0.2	Ampl.	0.2
	261.6	262.2	261.5	260.5	260.5	260.3	260.9	259.8	Sbd box	261.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.82327961733E+02		Apriori delay (usec)		9.82317025825E+02		Resid mbdelay (usec)		-4.68909E-03	+/- 9.5E-05
Sband delay (usec)	9.82334960825E+02		Apriori clock (usec)		-4.1165359E+01		Resid sbdelay (usec)		1.79350E-02	+/- 7.6E-04
Phase delay (usec)	9.82317020535E+02		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		-5.29062E-06	+/- 3.2E-07
Delay rate (us/s)	1.37492811084E+00		Apriori rate (us/s)		1.37492807890E+00		Resid rate (us/s)		3.19425E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.88980464056E-05		Resid phase (deg)		-164.1	+/- 10.0

ph/seg (deg) 51.5 24.1 Search (2048X32) 0.213 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.4 42.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.5 14.2 Inc. seg. avg. 0.293 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.8 24.8 Inc. frq. avg. 0.248 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 61.4 el 47.0 pa -85.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -10558.376 -4018.333 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kX..193QBF Output file: /Exps/c201d/v1/1234/No0057/kX.W.122.193QBF



Fringe quality 0
SNR 5.9
Int time 352.938
Amp 0.118
Phase -107.7
PFD 5.9e-01
Delays (us)
SBD 0.558016
MBD 0.006448
Fringe rate (Hz)
-0.250863
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122511
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

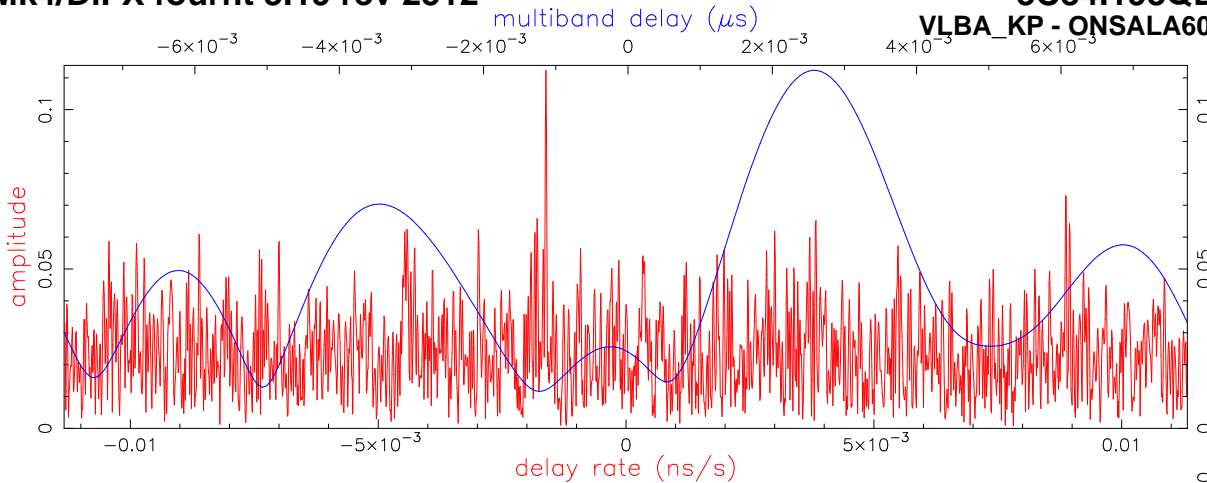


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.6	-69.6	-114.9	-107.9	-131.5	-127.6	-78.8	-100.3	Phase	-107.7
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	252.4	174.5	340.6	160.9	214.8	86.0	86.6	475.0	Sbd box	399.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.82870348803E+02	Apriori delay (usec)		9.82317025825E+02	Resid mbdelay (usec)		6.44798E-03	+/-	1.8E-04
Sband delay (usec)	9.82875041825E+02	Apriori clock (usec)		-4.1165359E+01	Resid sbdelay (usec)		5.58016E-01	+/-	1.5E-03
Phase delay (usec)	9.82317022353E+02	Apriori clockrate (us/s)		-5.2260003E-07	Resid phdelay (usec)		-3.47241E-06	+/-	6.3E-07
Delay rate (us/s)	1.37492516663E+00	Apriori rate (us/s)		1.37492807890E+00	Resid rate (us/s)		-2.91227E-06	+/-	3.0E-09
Total phase (deg)	110.0	Apriori accel (us/s/s)		-2.88980464056E-05	Resid phase (deg)		-107.7	+/-	19.4

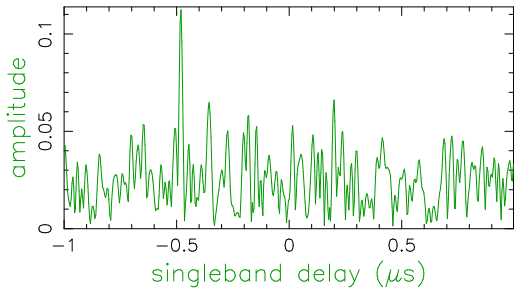
ph/seg (deg)	47.2	Theor.	46.5	Amplitude	0.118 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.5		81.2	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	24.2		27.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.5		47.9	Inc. seg. avg.	0.118	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.112	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

k: az 61.4 el 47.0 pa -85.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -10558.376 -4018.333 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kX..193QBF Output file: /Exps/c201d/v1/1234/No0057/kX.W.141.193QBF

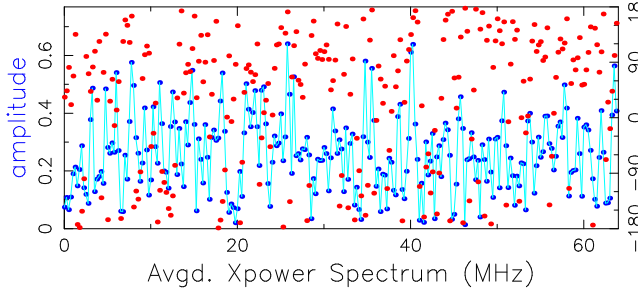


Fringe quality 0

SNR 5.8
 Int time 352.938
 Amp 0.114
 Phase -55.1
 PFD 8.1e-01
 Delays (us)
 SBD -0.481355
 MBD 0.002554
 Fringe rate (Hz)
 -0.139138
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

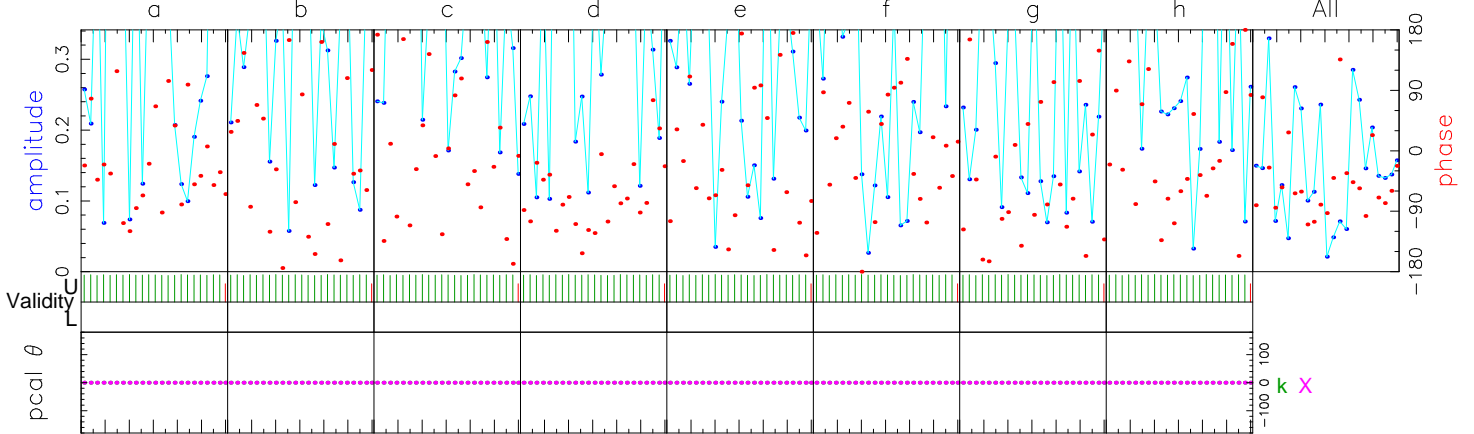


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122515
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

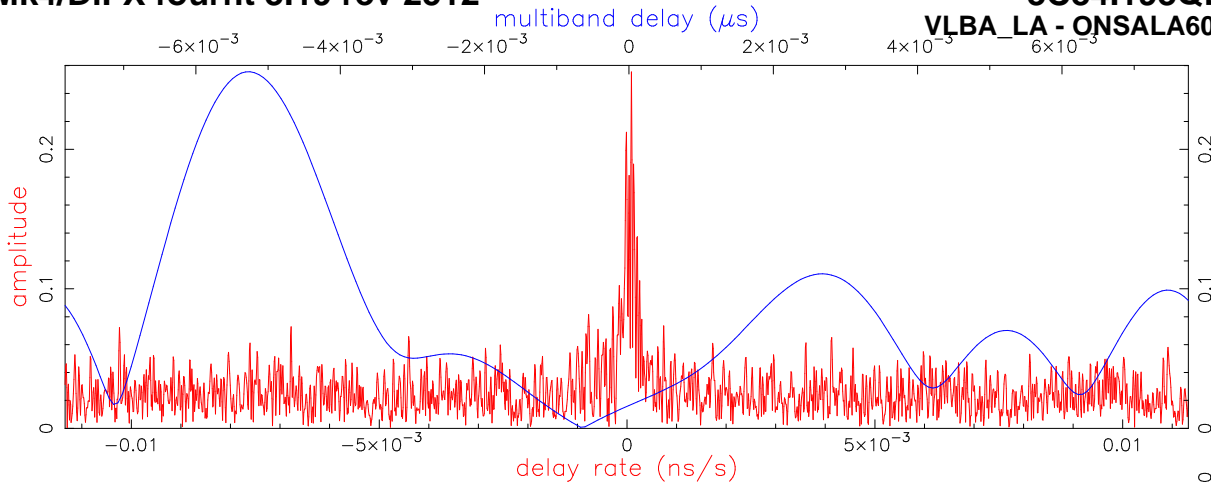
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



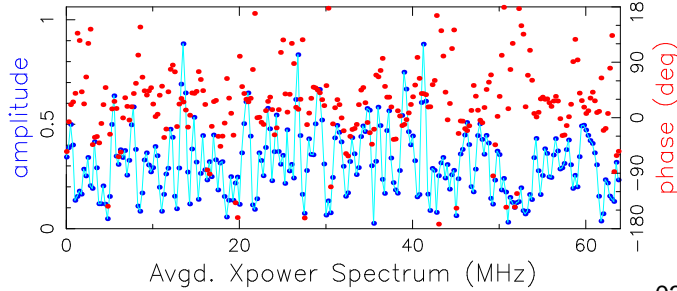
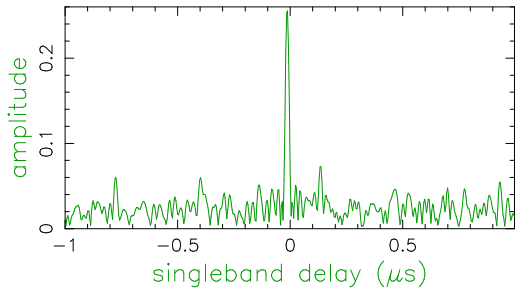
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.6	167.2	-74.6	-73.7	-68.7	-12.6	-99.6	-30.2	Phase	-55.1
	0.2	0.0	0.1	0.3	0.1	0.2	0.1	0.1	Ampl.	0.1
	451.1	313.9	435.8	134.5	496.5	134.2	76.9	308.2	Sbd box	133.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.81835204381E+02		Apriori delay (usec)		9.82317025825E+02		Resid mbdelay (usec)		2.55356E-03	+/- 1.9E-04
Sband delay (usec)	9.81835670825E+02		Apriori clock (usec)		-4.1165359E+01		Resid sbdelay (usec)		-4.81355E-01	+/- 1.5E-03
Phase delay (usec)	9.82317024047E+02		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		-1.77800E-06	+/- 6.4E-07
Delay rate (us/s)	1.37492646365E+00		Apriori rate (us/s)		1.37492807890E+00		Resid rate (us/s)		-1.61525E-06	+/- 3.1E-09
Total phase (deg)	162.5		Apriori accel (us/s/s)		-2.88980464056E-05		Resid phase (deg)		-55.1	+/- 19.7

	RMS	Theor.	Amplitude	0.114 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	57.0	47.4	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	79.5	82.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	64.0	27.9	Inc. seg. avg.	0.113	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	68.2	48.7	Inc. frq. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 61.4 el 47.0 pa -85.5 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -10558.376 -4018.333 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kX..193QBF Output file: /Exps/c201d/v1/1234/No0057/kX.W.155.193QBF

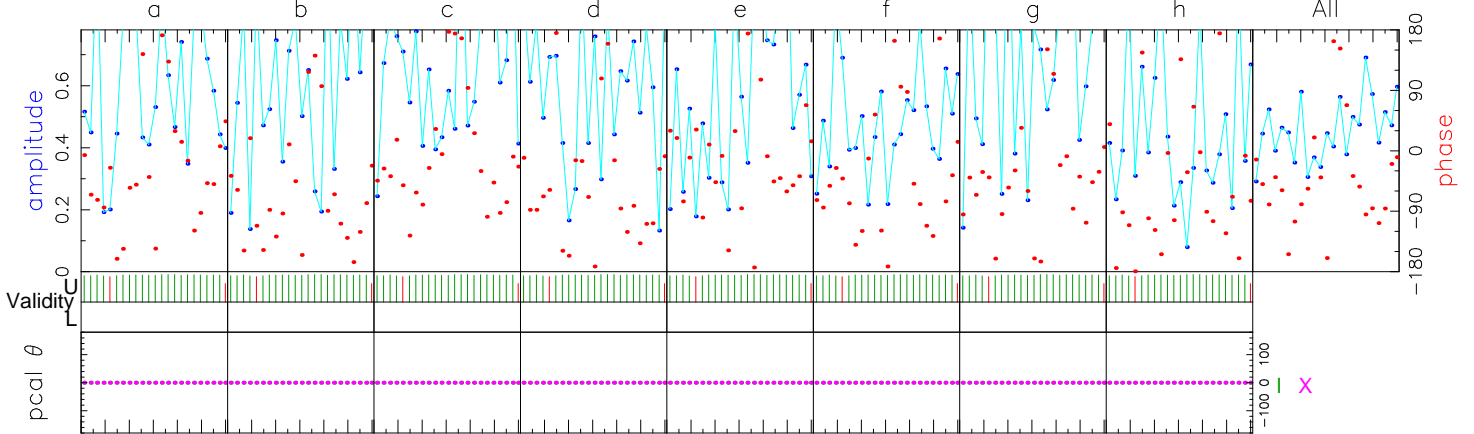


Fringe quality 9
SNR 13.3
Int time 351.324
Amp 0.260
Phase -71.7
PFD 8.3e-32
Delays (us)
SBD -0.013474
MBD -0.005313
Fringe rate (Hz) 0.007431
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122517
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

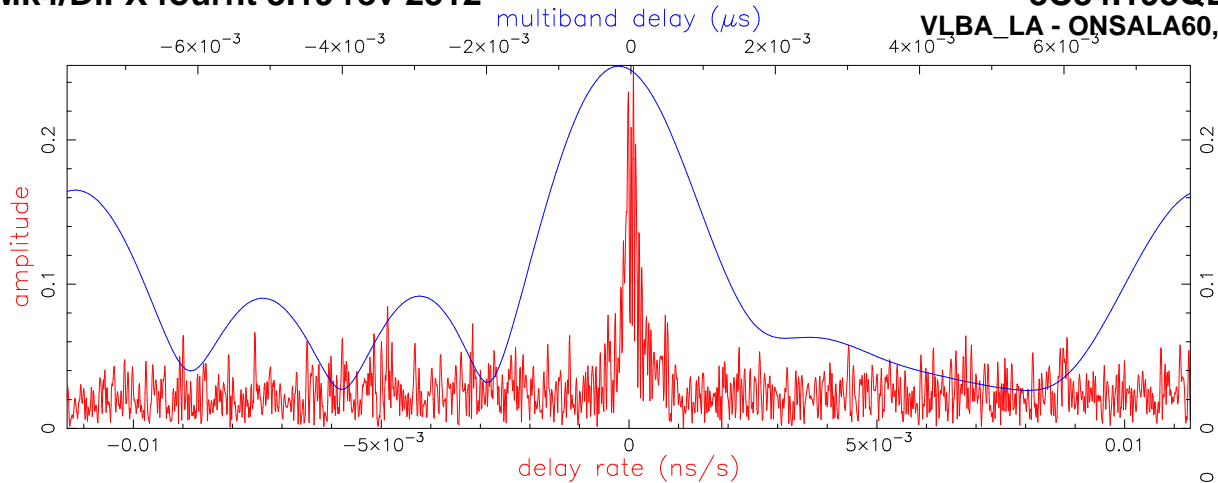


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-70.6	-103.6	-49.2	-89.2	-26.4	-73.5	-54.5	-118.9	Phase	-71.7
	0.3	0.4	0.3	0.3	0.3	0.2	0.4	0.2	Ampl.	0.3
	253.6	253.0	253.7	253.9	253.4	252.9	252.3	251.1	Sbd box	253.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.32433912995E+03	Apriori delay (usec)	2.32436006835E+03	Resid mbdelay (usec)	-5.31339E-03	+/-	8.1E-05
Sband delay (usec)	2.32434659385E+03	Apriori clock (usec)	-4.4555267E+01	Resid sbdelay (usec)	-1.34745E-02	+/-	6.5E-04
Phase delay (usec)	2.32436006603E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-2.31130E-06	+/-	2.8E-07
Delay rate (us/s)	1.28389972270E+00	Apriori rate (us/s)	1.28389963643E+00	Resid rate (us/s)	8.62718E-08	+/-	1.3E-09
Total phase (deg)	31.8	Apriori accel (us/s/s)	-3.19109852591E-05	Resid phase (deg)	-71.7	+/-	8.6

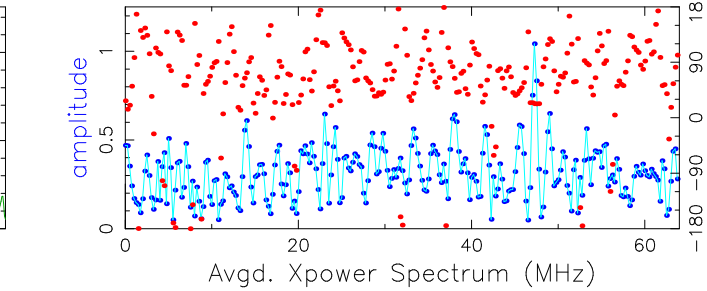
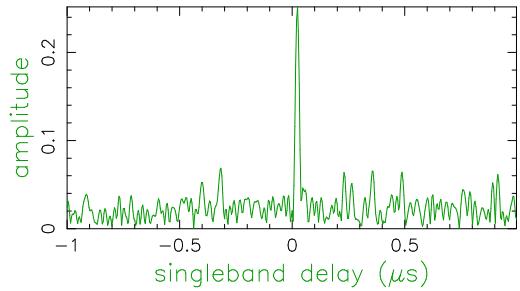
ph/seg (deg)	RMS 64.5	Theor. 20.6	Amplitude Search (2048X32)	0.260 +/- 0.020	0.252	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	84.5	36.0	Interp.	0.000	0.429	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	32.7	12.2	Inc. seg. avg.	0.429	0.281	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	24.5	21.2	Inc. frq. avg.	0.281		Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.162.193QBF



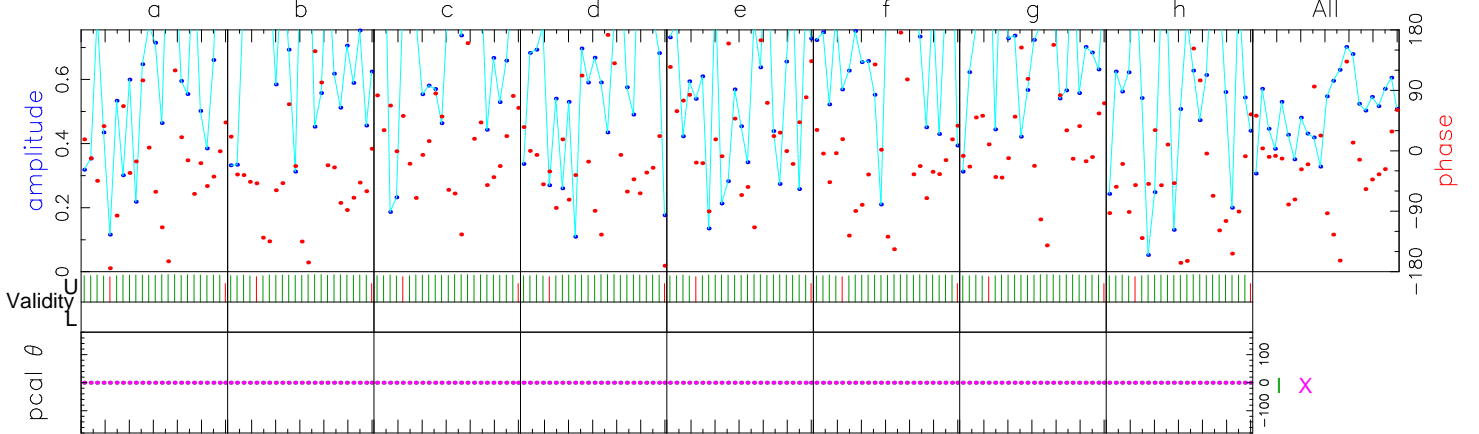
Fringe quality 9

SNR 12.9
 Int time 351.325
 Amp 0.252
 Phase -20.3
 PFD 2.4e-29
 Delays (us)
 SBD 0.022808
 MBD -0.000183
 Fringe rate (Hz)
 0.007412
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122520
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



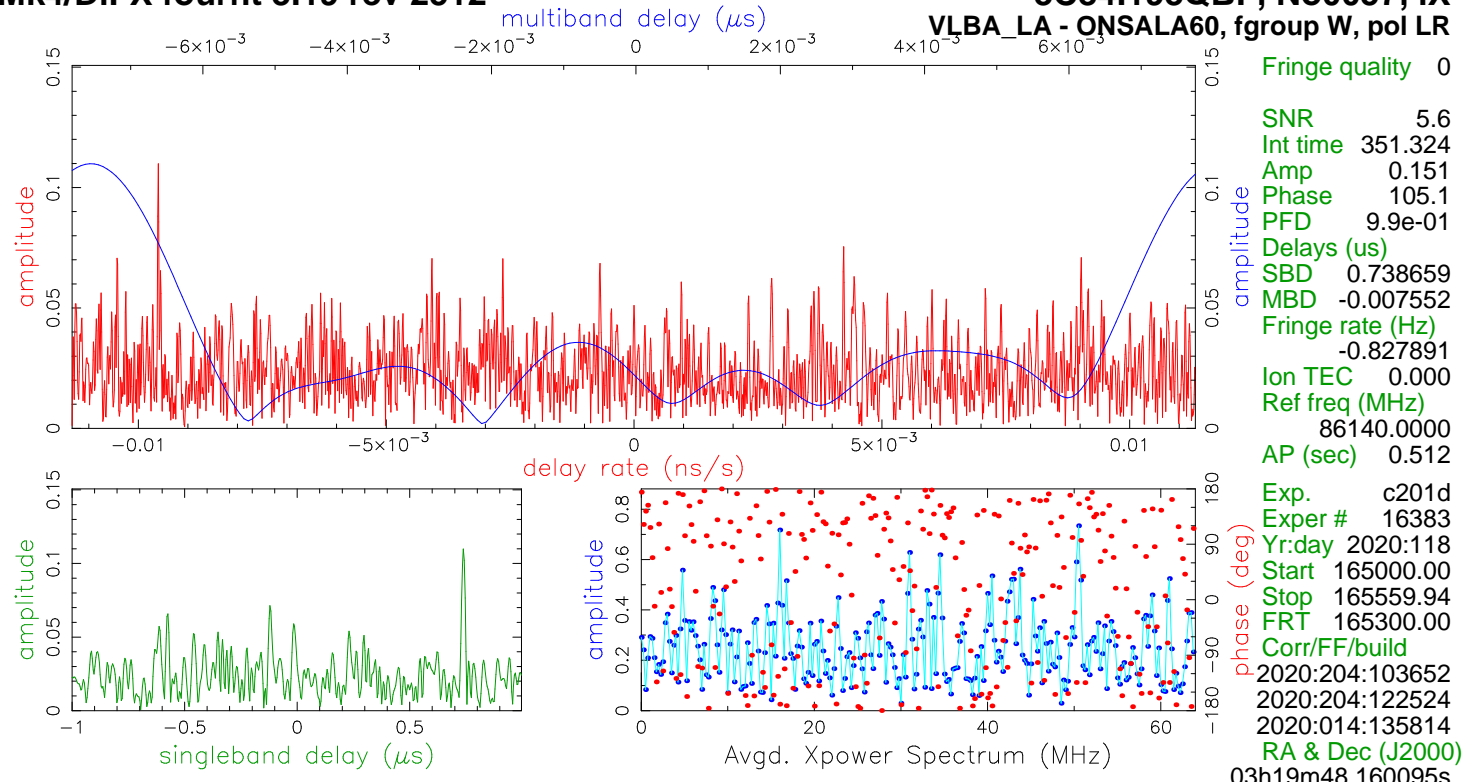
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec)(sbd)	2.32437551023E+03	Apriori delay (usec)	2.32436006835E+03	Resid mbdelay (usec)	-1.83111E-04	+/-	8.4E-05
Sband delay (usec)	2.32438287610E+03	Apriori clock (usec)	-4.455267E+01	Resid sbdelay (usec)	2.28078E-02	+/-	6.7E-04
Phase delay (usec)	2.32436006769E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-6.55772E-07	+/-	2.9E-07
Delay rate (us/s)	1.28389972247E+00	Apriori rate (us/s)	1.28389963643E+00	Resid rate (us/s)	8.60423E-08	+/-	1.4E-09
Total phase (deg)	83.1	Apriori accel (us/s/s)	-3.19109852591E-05	Resid phase (deg)	-20.3	+/-	8.9

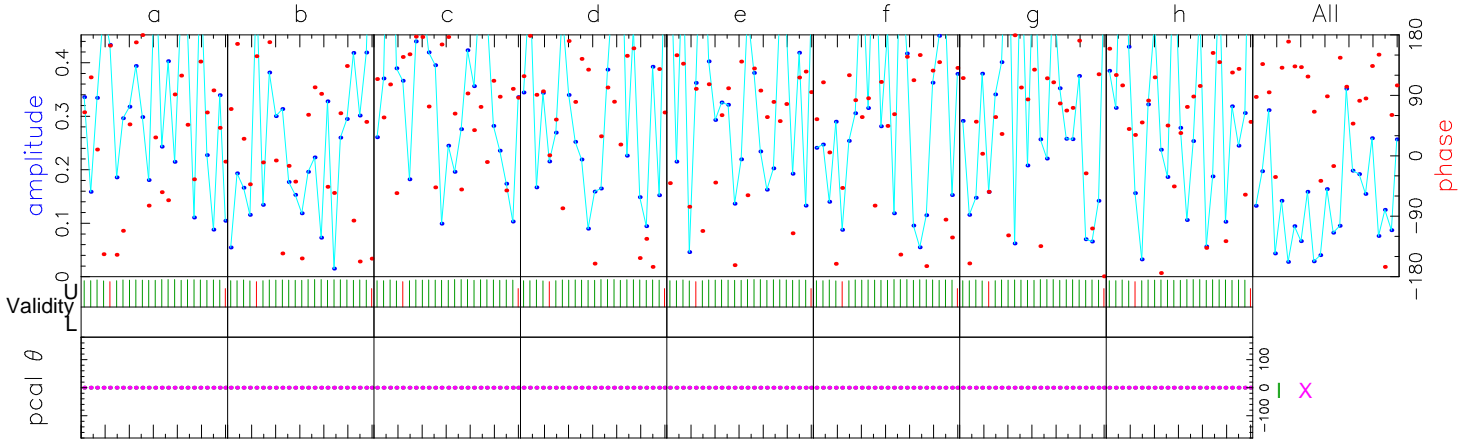
ph/seg (deg)	66.1	RMS	21.3	Theor.	21.3	Amplitude	0.252 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	108.9	Search (2048X32)	0.245	Search	0.245	Search	0.245	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	43.3	Inc. seg. avg.	0.473	Inc. seg. avg.	0.473	Inc. seg. avg.	0.473	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	30.6	Inc. frq. avg.	0.305	Inc. frq. avg.	0.305	Inc. frq. avg.	0.305	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
								Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.176.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

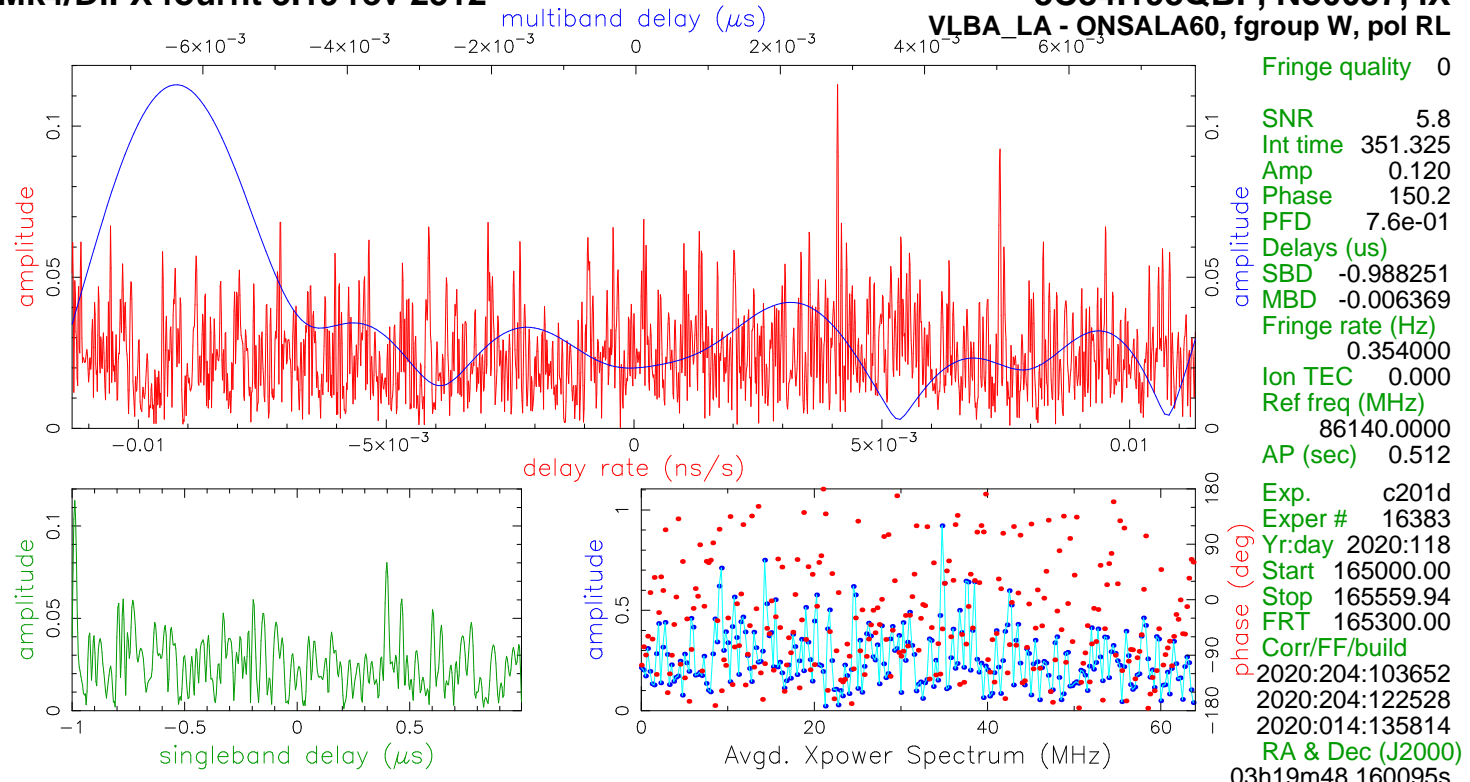


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
93.8	160.4	92.0	113.2	98.6	123.8	110.0	96.3	96.3	Phase	105.1
0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
89.3	81.3	410.2	489.1	162.4	349.2	78.8	172.3	172.3	Sbd box	446.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.32510251638E+03		Apriori delay (usec)	2.32436006835E+03	Resid mbdelay (usec)	-7.55196E-03	+/-	1.9E-04		
Sband delay (usec)	2.32509872760E+03		Apriori clock (usec)	-4.4555267E+01	Resid sbdelay (usec)	7.38659E-01	+/-	1.5E-03		
Phase delay (usec)	2.32436007174E+03		Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	3.38916E-06	+/-	6.6E-07		
Delay rate (us/s)	1.28389002544E+00		Apriori rate (us/s)	1.28389963643E+00	Resid rate (us/s)	-9.61099E-06	+/-	3.2E-09		
Total phase (deg)		208.5	Apriori accel (us/s/s)	-3.19109852591E-05	Resid phase (deg)	105.1	+/-	20.3		

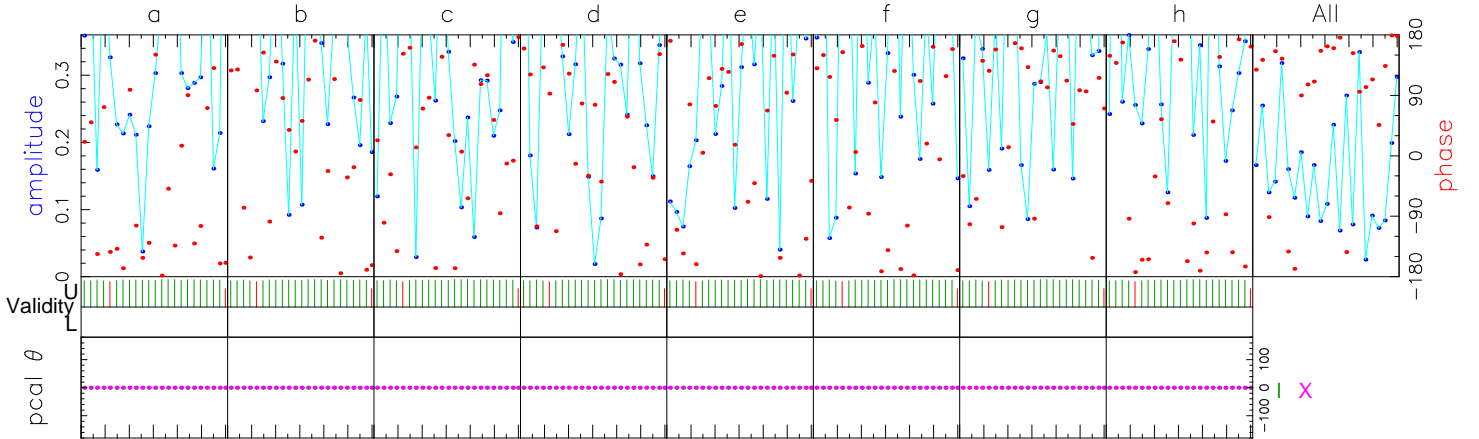
	RMS	Theor.	Amplitude	0.151 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.0	48.7	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	84.5	85.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.6	28.7	Inc. seg. avg.	0.143	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	39.1	50.2	Inc. frq. avg.	0.138	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.194.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

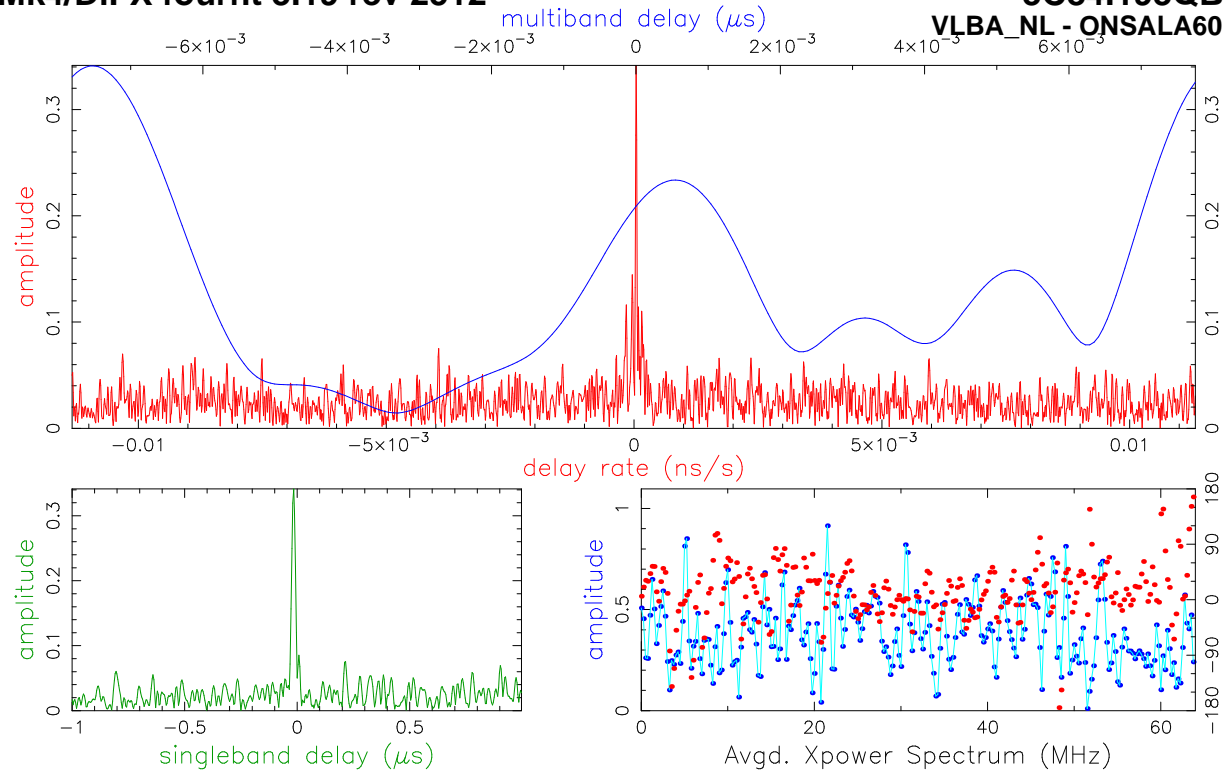


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.3	147.7	115.2	140.5	143.9	155.6	119.8	174.3	Phase	150.2
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	305.2	57.1	375.6	244.1	412.8	359.4	240.7	4.5	Sbd box	4.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.32336932469E+03		Apriori delay (usec)		2.32436006835E+03		Resid mbdelay (usec)		-6.36865E-03	+/- 1.9E-04
Sband delay (usec)	2.32337181760E+03		Apriori clock (usec)		-4.4555267E+01		Resid sbdelay (usec)		-9.88251E-01	+/- 1.5E-03
Phase delay (usec)	2.32436007319E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		4.84302E-06	+/- 6.3E-07
Delay rate (us/s)	1.28390374601E+00		Apriori rate (us/s)		1.28389963643E+00		Resid rate (us/s)		4.10958E-06	+/- 3.1E-09
Total phase (deg)	253.6		Apriori accel (us/s/s)		-3.19109852591E-05		Resid phase (deg)		150.2	+/- 19.7

	RMS	Theor.	Amplitude	0.120 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	48.3	47.1	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	83.9	82.3	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	26.1	27.8	Inc. seg. avg.	0.124	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.0	48.5	Inc. frq. avg.	0.115	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 66.2 el 52.6 pa -83.2 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9865.887 -3866.477 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/IX..193QBF Output file: /Exps/c201d/v1/1234/No0057/IX.W.213.193QBF

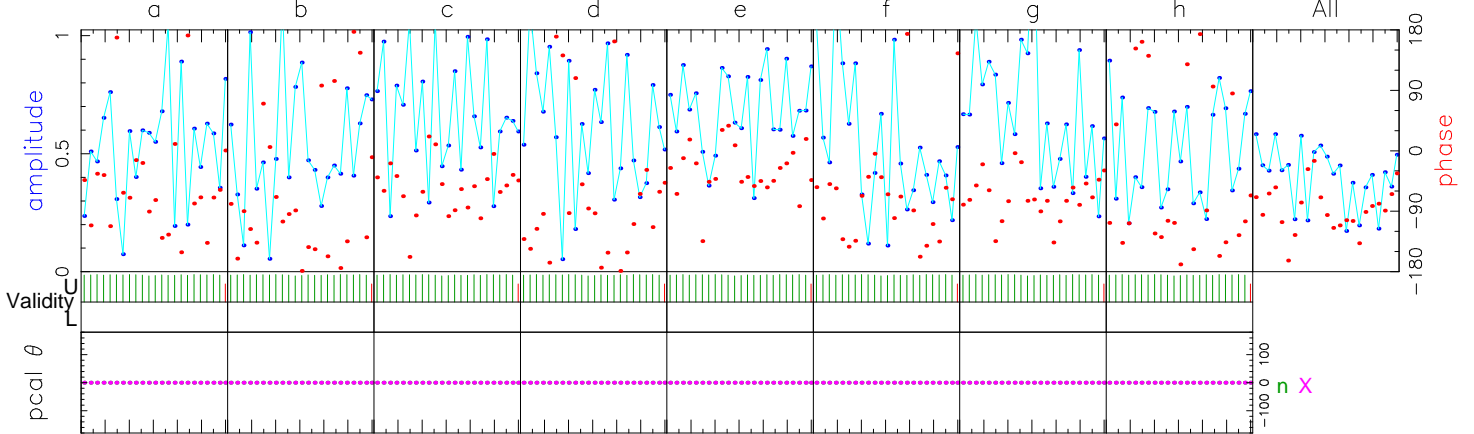


Fringe quality 7

SNR 17.6
Int time 353.761
Amp 0.342
Phase -83.5
PFD 0.0e+00
Delays (us)
SBD -0.016106
MBD -0.007542
Fringe rate (Hz) 0.003690
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122519
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

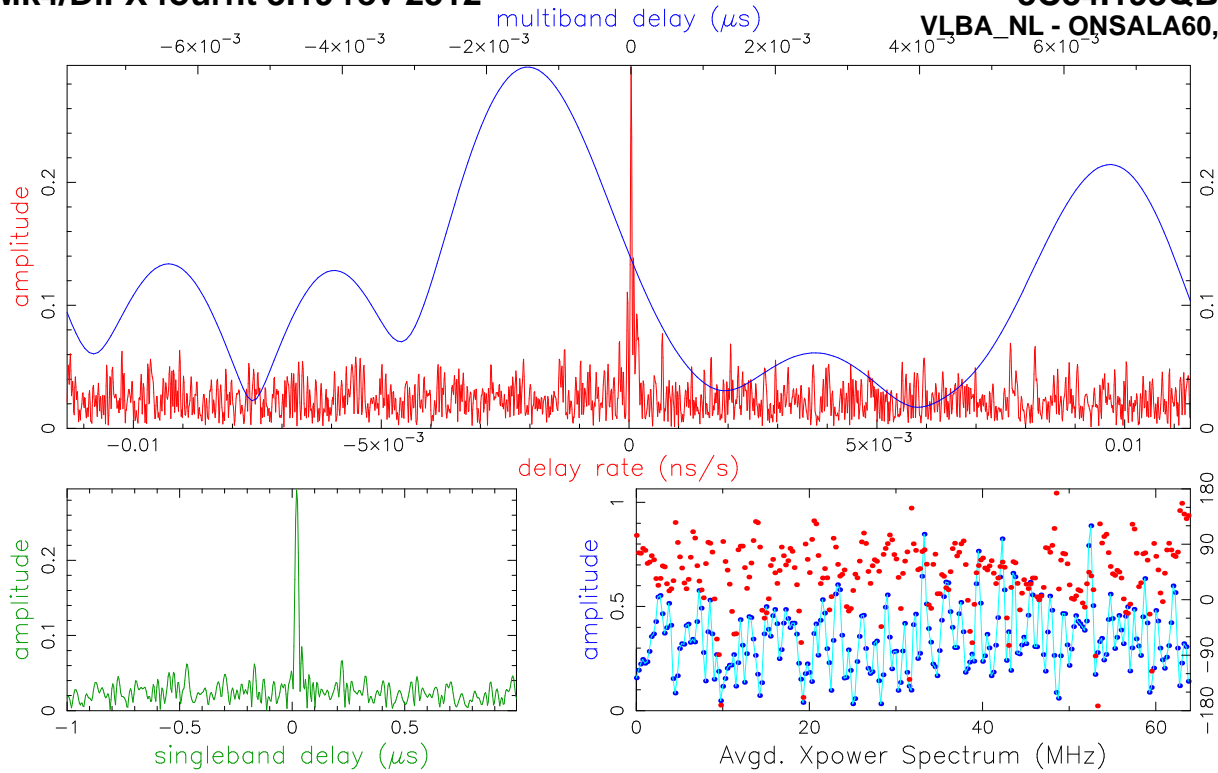


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.6	-133.3	-58.8	-123.3	-25.5	-93.1	-67.1	-147.9	Phase	-83.5
	0.4	0.3	0.5	0.4	0.6	0.4	0.6	0.3	Ampl.	0.4
	252.8	252.1	252.7	252.1	252.5	251.8	252.5	251.0	Sbd box	252.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.74020128934E+03		Apriori delay (usec)		4.74022445607E+03		Resid mbdelay (usec)		-7.54173E-03	+/- 6.2E-05
Sband delay (usec)	4.74020835007E+03		Apriori clock (usec)		-8.4995041E+00		Resid sbdelay (usec)		-1.61060E-02	+/- 4.9E-04
Phase delay (usec)	4.74022445338E+03		Apriori clockrate (us/s)		-1.9400004E-07		Resid phdelay (usec)		-2.69223E-06	+/- 2.1E-07
Delay rate (us/s)	1.05808917358E+00		Apriori rate (us/s)		1.05808913074E+00		Resid rate (us/s)		4.28415E-08	+/- 1.0E-09
Total phase (deg)	149.0		Apriori accel (us/s/s)		-3.84708856279E-05		Resid phase (deg)		-83.5	+/- 6.5

ph/seg (deg) 34.0 15.6 Search (2048X32) 0.334 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 41.1 27.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 45.7 9.2 Inc. seg. avg. 0.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 40.8 16.1 Inc. frq. avg. 0.425 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 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.170.193QBF

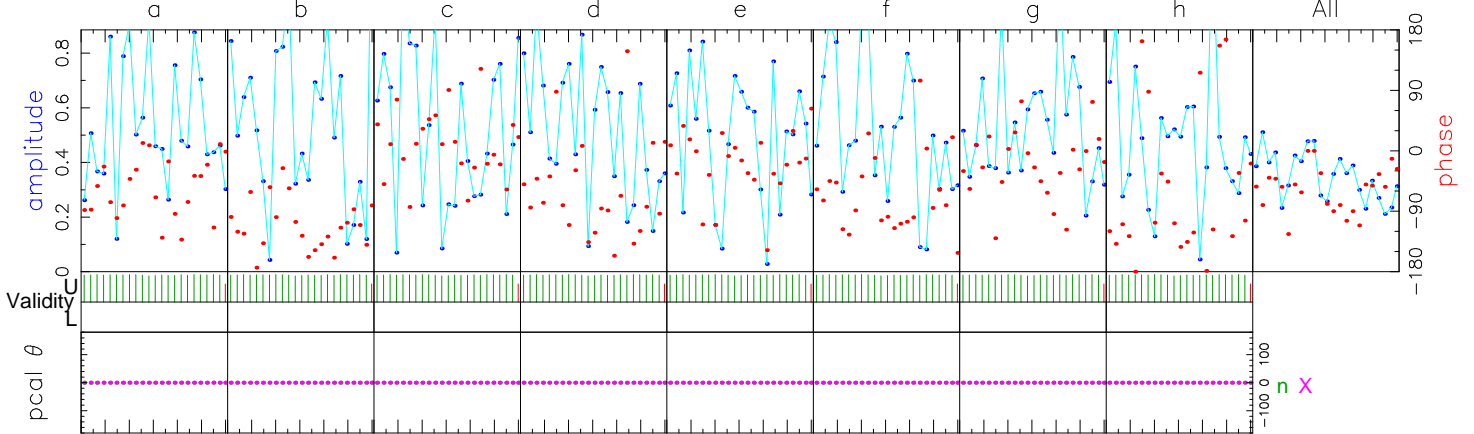
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, nX
VLBA_NL - ONSALA60, fgroup W, pol RR



Fringe quality 8
SNR 15.2
Int time 353.761
Amp 0.295
Phase -57.2
PFD 3.1e-43
Delays (us)
SBD 0.020433
MBD -0.001384
Fringe rate (Hz) 0.003625
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122523
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

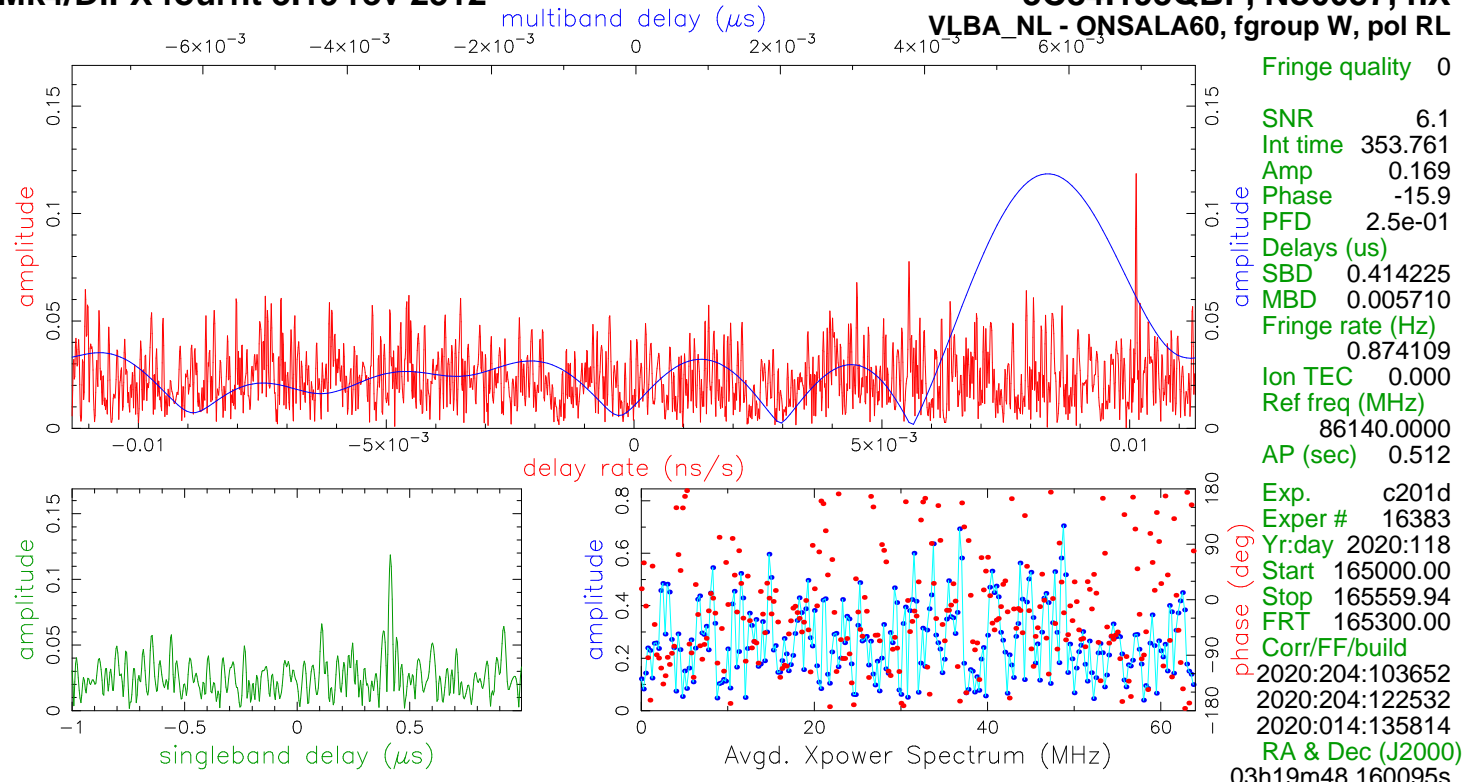


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-53.6	-107.8	-0.1	-74.0	-17.1	-70.7	-23.9	-129.6	Phase	-57.2
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	Ampl.	0.4
	262.2	262.7	262.1	261.7	261.6	261.6	261.0	260.3	Sbd box	262.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.74023869669E+03		Apriori delay (usec)	4.74022445607E+03	Resid mbdelay (usec)	-1.38438E-03	+/-	7.2E-05		
Sband delay (usec)	4.74024488882E+03		Apriori clock (usec)	-8.4995041E+00	Resid sbdelay (usec)	2.04327E-02	+/-	5.7E-04		
Phase delay (usec)	4.74022445422E+03		Apriori clockrate (us/s)	-1.9400004E-07	Resid phdelay (usec)	-1.84603E-06	+/-	2.4E-07		
Delay rate (us/s)	1.05808917283E+00		Apriori rate (us/s)	1.05808913074E+00	Resid rate (us/s)	4.20862E-08	+/-	1.2E-09		
Total phase (deg)		175.2	Apriori accel (us/s/s)	-3.84708856279E-05	Resid phase (deg)	-57.2	+/-	7.5		

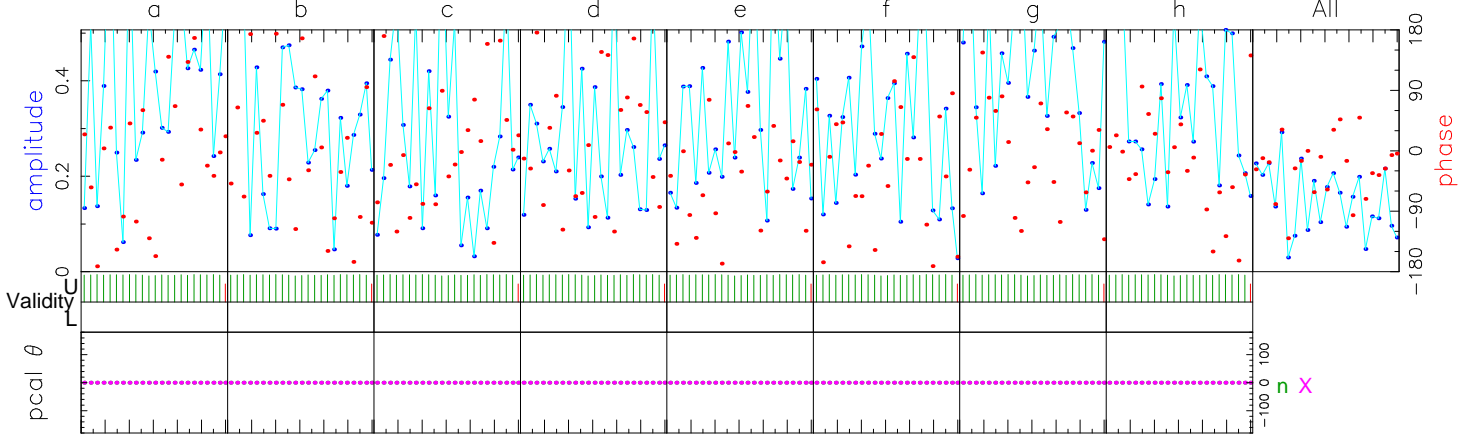
ph/seg (deg) 32.7 18.1 Search (2048X32) 0.291 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 34.6 31.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 48.7 10.7 Inc. seg. avg. 0.333 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 33.2 18.6 Inc. frq. avg. 0.381 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 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.187.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, nX
VLBA_NL - ONSALA60, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

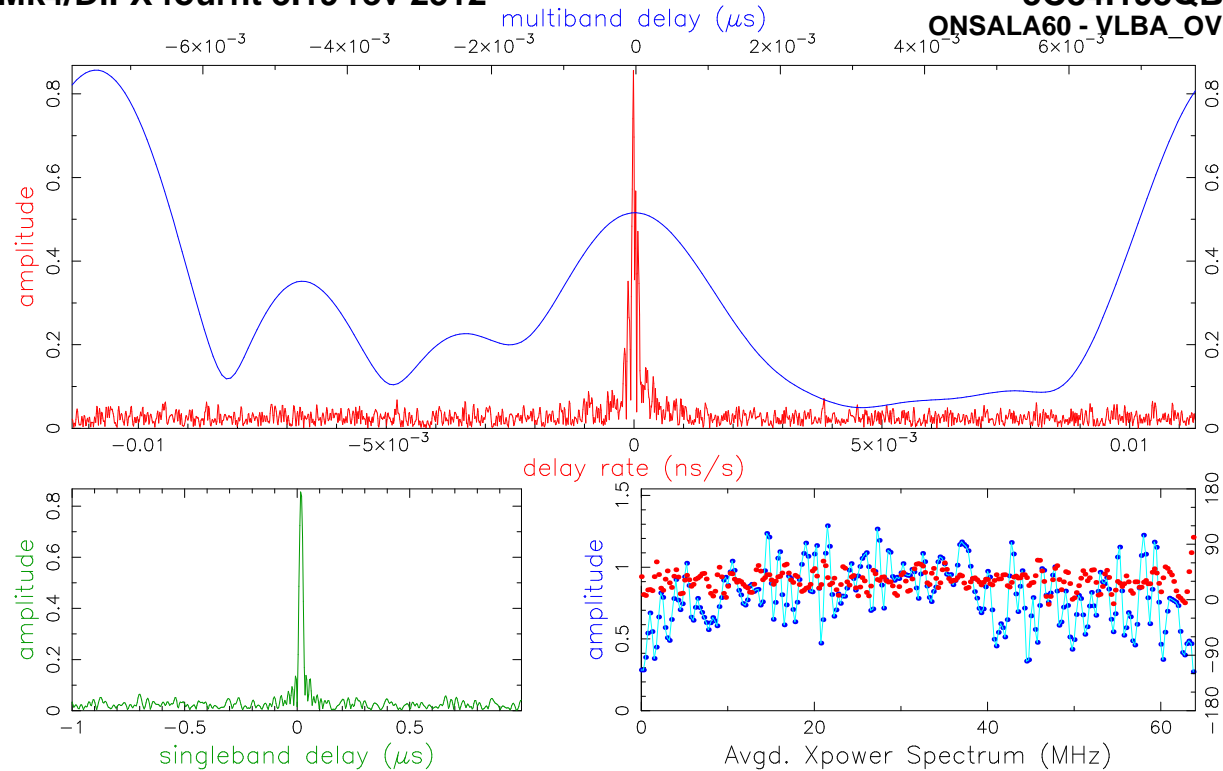


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	6.3	-30.0	-5.8	-54.1	-22.8	-22.9	-3.8	-9.3	Phase	-15.9
	0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.2	Ampl.	0.2
	395.3	346.9	353.4	477.0	363.5	236.3	464.6	484.3	Sbd box	363.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)		4.74063641623E+03		Apriori delay (usec)	4.74022445607E+03		Resid mbdelay (usec)	5.71016E-03	+/-	1.8E-04
Sband delay (usec)		4.74063868057E+03		Apriori clock (usec)	-8.4995041E+00		Resid sbdelay (usec)	4.14225E-01	+/-	1.4E-03
Phase delay (usec)		4.74022445556E+03		Apriori clockrate (us/s)	-1.9400004E-07		Resid phdelay (usec)	-5.11847E-07	+/-	6.1E-07
Delay rate (us/s)		1.05809927828E+00		Apriori rate (us/s)	1.05808913074E+00		Resid rate (us/s)	1.01475E-05	+/-	2.9E-09
Total phase (deg)			216.6	Apriori accel (us/s/s)	-3.84708856279E-05		Resid phase (deg)	-15.9	+/-	18.8

	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)	44.4	45.1	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.0	78.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	20.6	26.6	Inc. seg. avg.	0.166	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.4	46.4	Inc. frq. avg.	0.159	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

n: az 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.230.193QBF

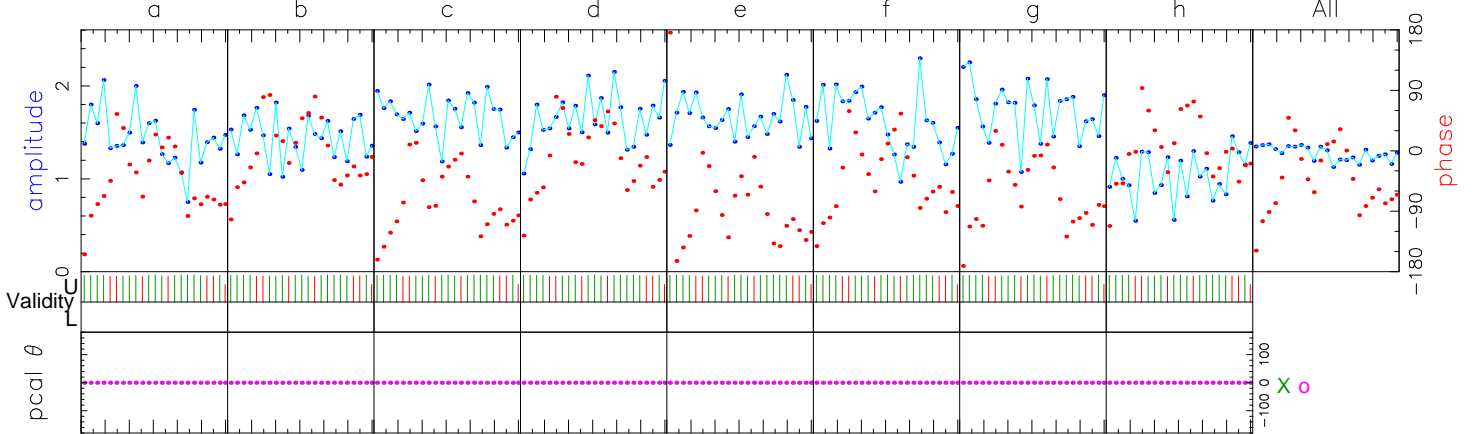


Fringe quality 4

SNR 44.1
Int time 345.826
Amp 0.868
Phase -45.7
PFD 0.0e+00
Delays (us)
SBD 0.017152
MBD -0.007435
Fringe rate (Hz)
-0.000593
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

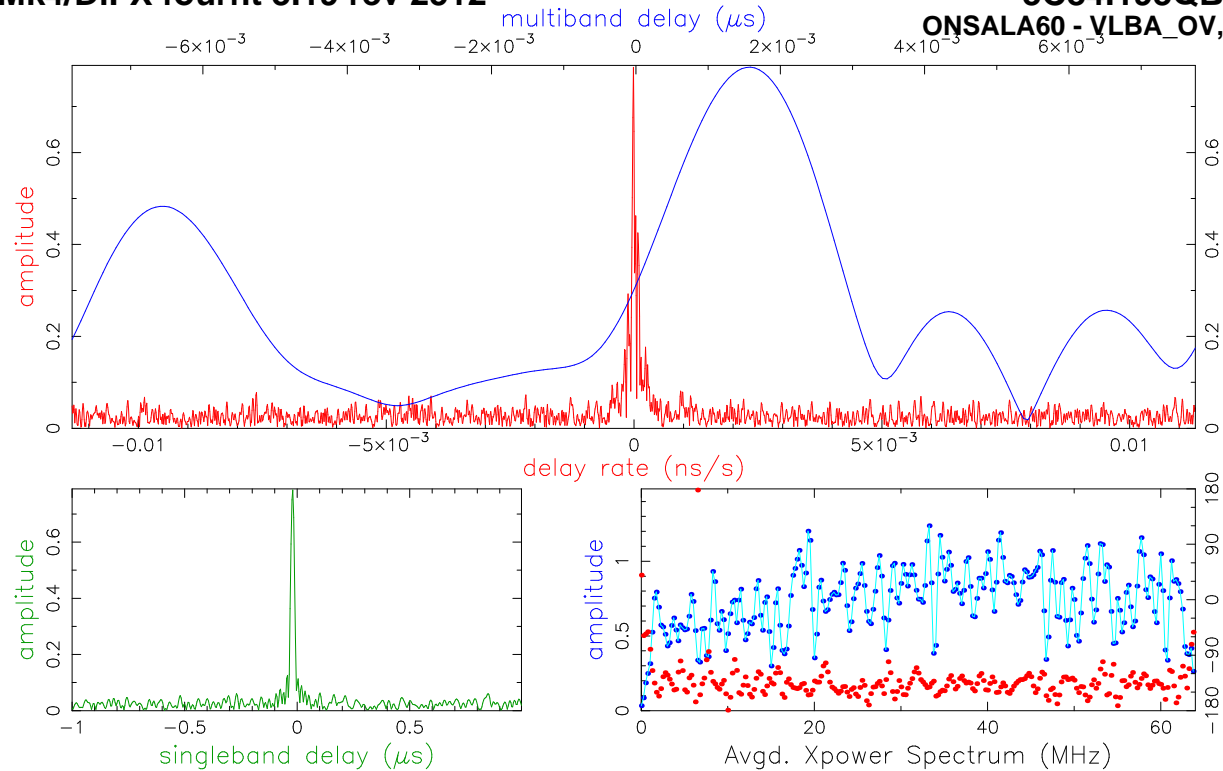
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122522
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-45.7	-4.1	-77.4	-7.4	-98.7	-44.5	-66.3	3.6	Phase	-45.7	
	1.0	1.0	1.2	1.1	1.2	1.0	1.1	0.7	Ampl.	1.0	
	261.7	261.9	261.2	262.1	261.9	262.1	262.0	263.1	Sbd box	261.4	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used		
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
X:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-3.42226354116E+02				-3.42250168626E+02				Resid mbdelay (usec)	-7.43549E-03	+/- 2.5E-05
Sband delay (usec)	-3.42233016126E+02				2.0715445E+01				Resid sbdelay (usec)	1.71525E-02	+/- 2.0E-04
Phase delay (usec)	-3.42250170099E+02				3.2700001E-07				Resid phdelay (usec)	-1.47291E-06	+/- 8.4E-08
Delay rate (us/s)	-1.38728420830E+00				-1.38728420141E+00				Resid rate (us/s)	-6.88364E-09	+/- 4.0E-10
Total phase (deg)			-234.8		1.97200148459E-05				Resid phase (deg)	-45.7	+/- 2.6

ph/seg (deg) 49.5 6.2 Search (2048X32) 0.830 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 47.6 10.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 40.5 3.7 Inc. seg. avg. 1.267 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 25.2 6.4 Inc. frq. avg. 1.035 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 281.6 el 44.0 pa 44.9 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10642.565 2876.605 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xo.W.184.193QBF

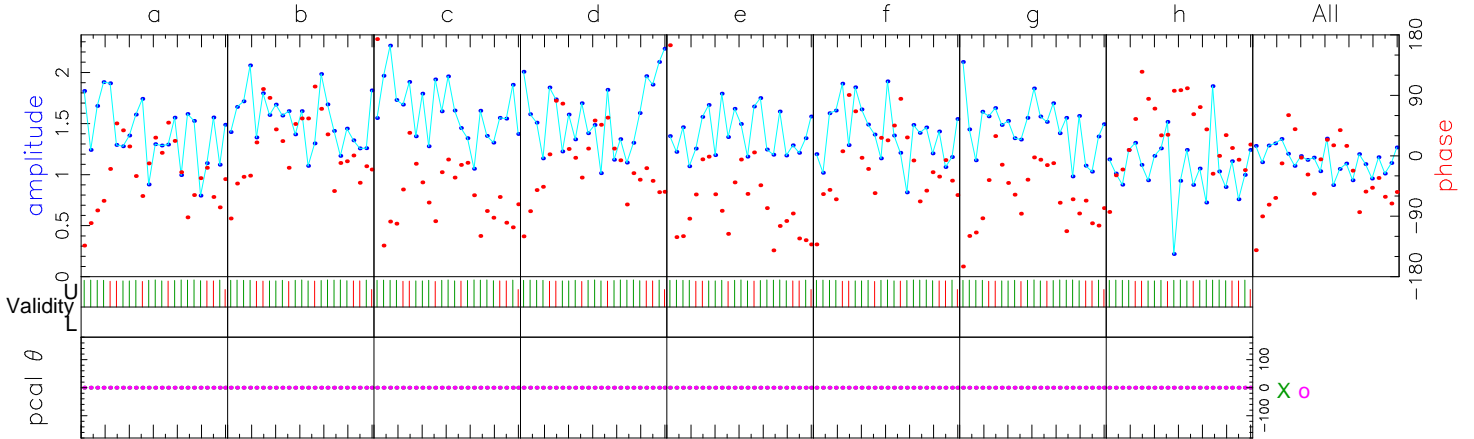


Fringe quality 4

SNR 40.2
Int time 345.827
Amp 0.790
Phase -31.3
PFD 0.0e+00
Delays (us)
SBD -0.020480
MBD 0.001546
Fringe rate (Hz)
-0.000599
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

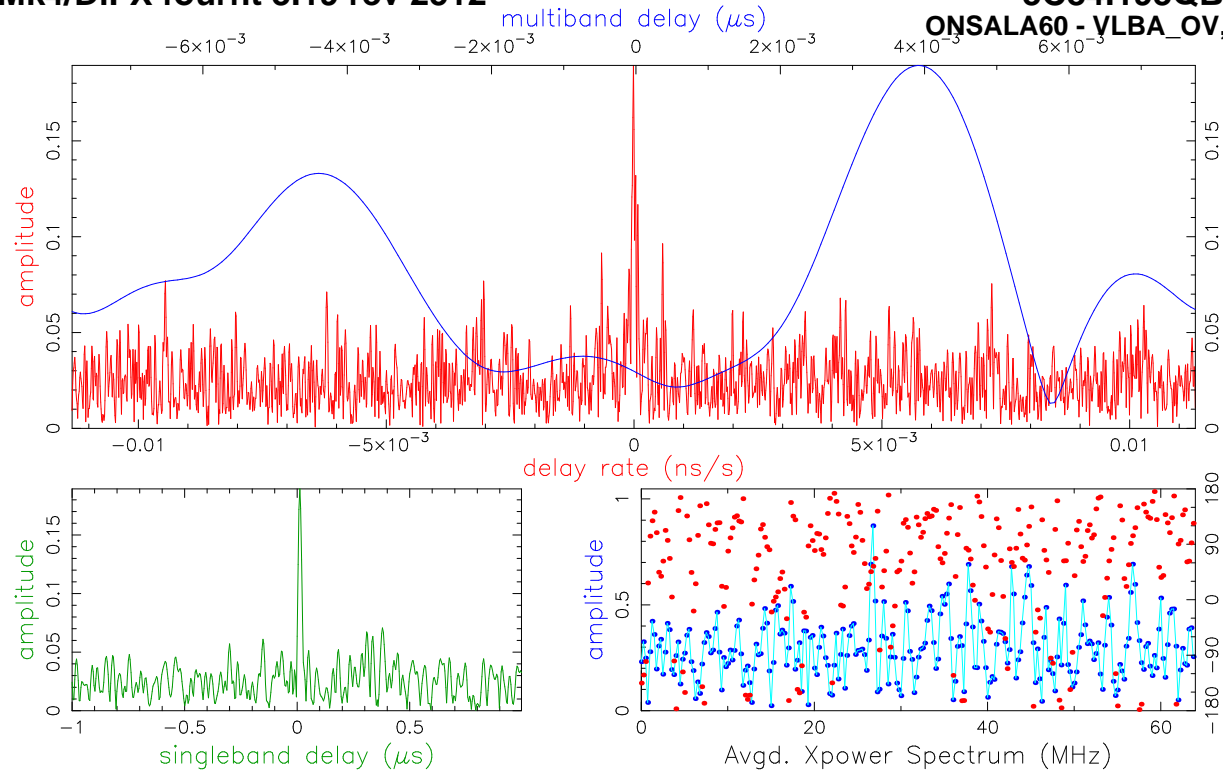
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122526
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



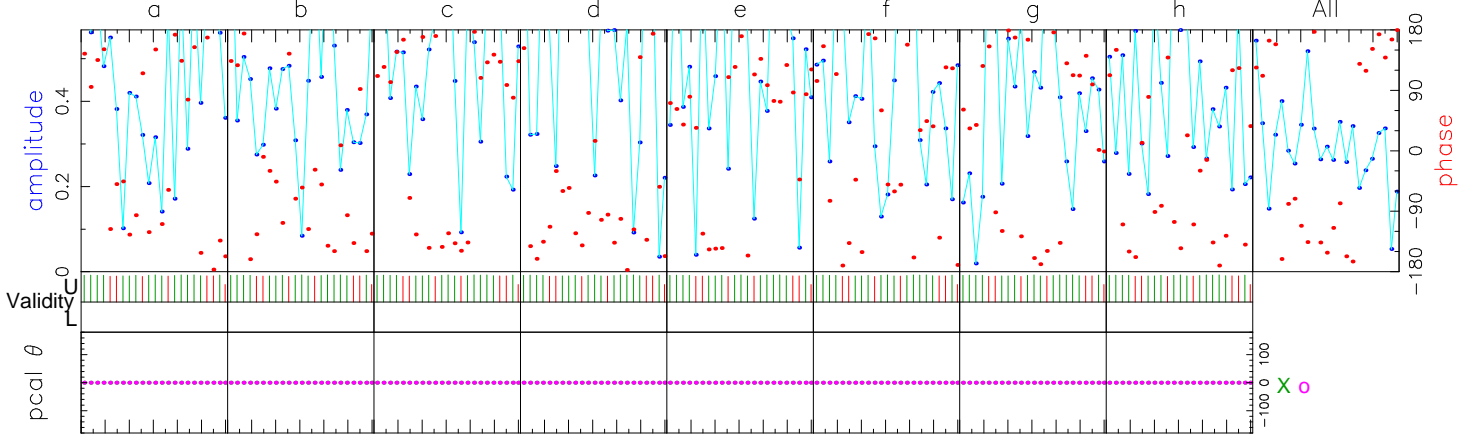
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.3	11.7	-67.2	-16.5	-77.8	-13.4	-60.8	29.1		-31.3
	0.9	1.0	1.1	1.0	0.9	0.9	1.0	0.7		0.9
	252.4	251.7	251.8	252.3	252.6	252.0	252.7	252.8		251.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.42264248054E+02		Apriori delay (usec)		-3.42250168626E+02		Resid mbdelay (usec)		1.54557E-03	+/- 2.7E-05
Sband delay (usec)	-3.42270648626E+02		Apriori clock (usec)		2.0715445E+01		Resid sbdelay (usec)		-2.04800E-02	+/- 2.1E-04
Phase delay (usec)	-3.42250169637E+02		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-1.01058E-06	+/- 9.2E-08
Delay rate (us/s)	-1.38728420837E+00		Apriori rate (us/s)		-1.38728420141E+00		Resid rate (us/s)		-6.95591E-09	+/- 4.4E-10
Total phase (deg)			Apriori accel (us/s/s)		1.97200148459E-05		Resid phase (deg)		-31.3	+/- 2.9

ph/seg (deg) 48.2 6.8 Search (2048X32) 0.764 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 47.5 11.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.5 4.0 Inc. seg. avg. 1.135 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 24.7 7.0 Inc. frq. avg. 0.950 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 281.6 el 44.0 pa 44.9 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10642.565 2876.605 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xo.W.202.193QBF



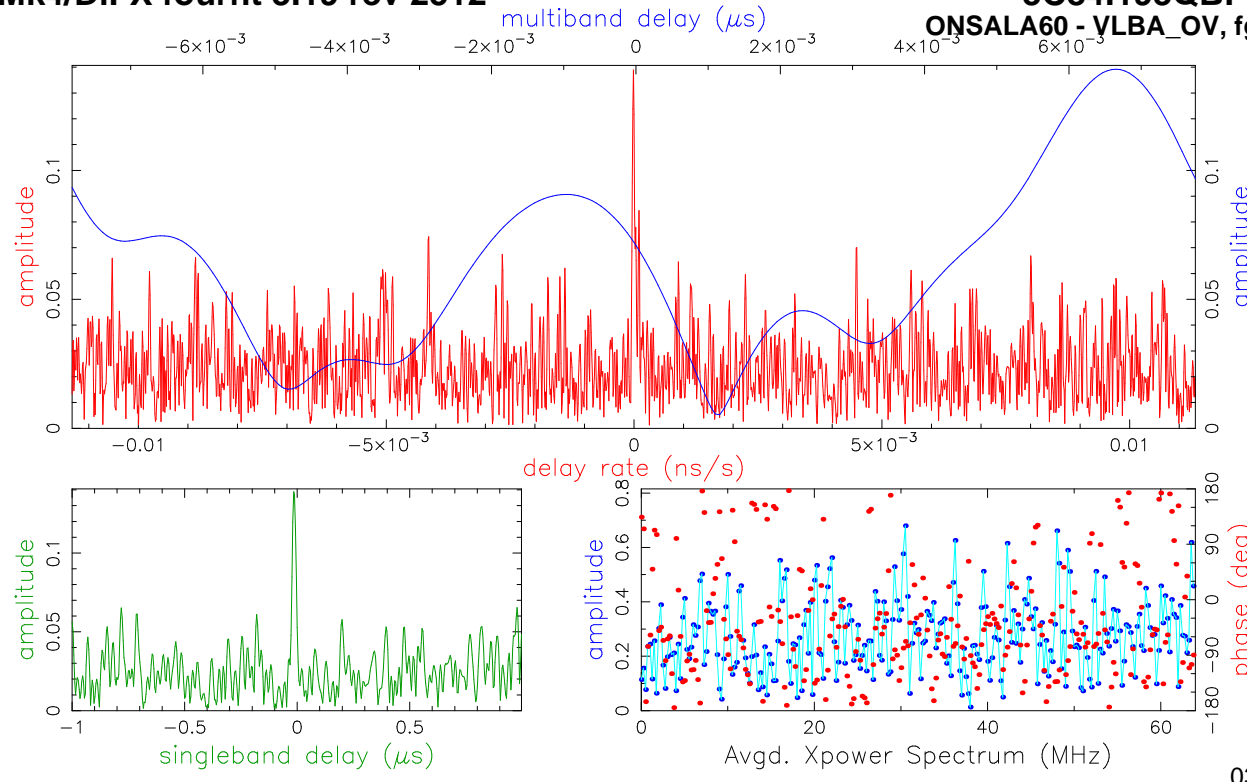
Fringe quality 9
SNR 9.6
Int time 345.827
Amp 0.189
Phase -170.8
PFD 2.5e-13
Delays (us)
SBD 0.011724
MBD 0.003918
Fringe rate (Hz)
-0.000507
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122529
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



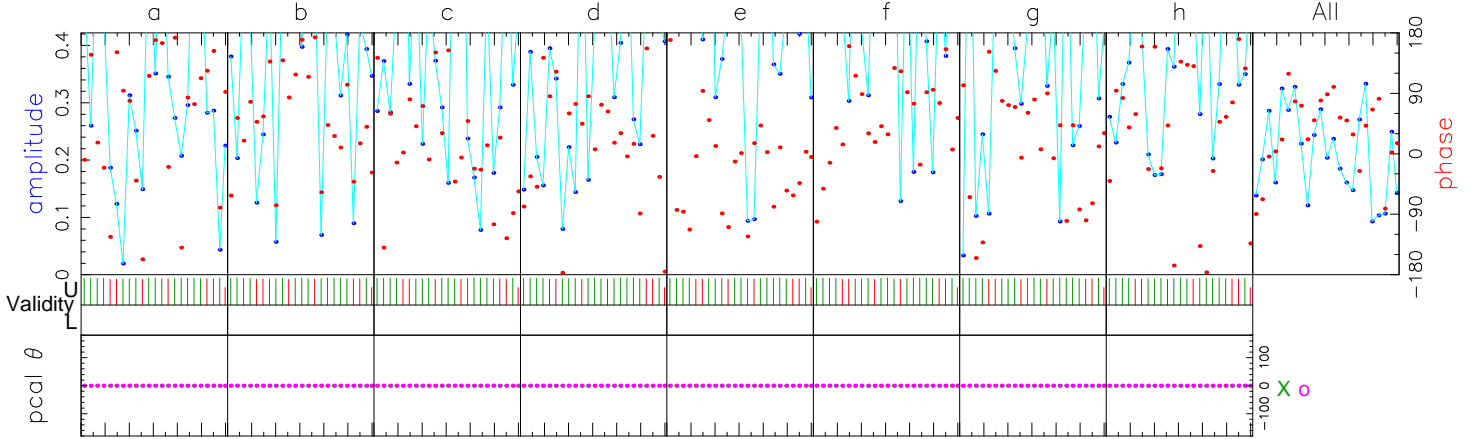
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	178.0	-125.8	165.2	-124.7	119.0	-179.1	179.4	-130.0	Phase	-170.8
	0.2	0.2	0.4	0.4	0.3	0.1	0.2	0.1	Ampl.	0.2
	260.4	141.1	260.5	260.4	260.3	261.7	260.0	393.8	Sbd box	260.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.42246250179E+02				-3.42250168626E+02				Resid mbdelay (usec)	3.91845E-03 +/- 1.1E-04
Sband delay (usec)	-3.42238444626E+02				2.0715445E+01				Resid sbdelay (usec)	1.17240E-02 +/- 8.9E-04
Phase delay (usec)	-3.42250174134E+02				3.2700001E-07				Resid phdelay (usec)	-5.50801E-06 +/- 3.8E-07
Delay rate (us/s)	-1.38728420730E+00				-1.38728420141E+00				Resid rate (us/s)	-5.88741E-09 +/- 1.8E-09
Total phase (deg)		-360.0			1.97200148459E-05				Resid phase (deg)	-170.8 +/- 11.9

ph/seg (deg) 52.2 28.5 Amplitude 0.189 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 80.3 49.8 Search (2048X32) 0.182 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.0 16.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.8 29.4 Inc. seg. avg. 0.267 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 281.6 el 44.0 pa 44.9 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10642.565 2876.605 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xo.W.220.193QBF



Fringe quality 0
 SNR 7.2
 Int time 345.826
 Amp 0.141
 Phase 41.1
 PFD 2.6e-04
 Delays (us)
 SBD -0.014042
 MBD 0.006735
 Fringe rate (Hz)
 -0.000903
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122533
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

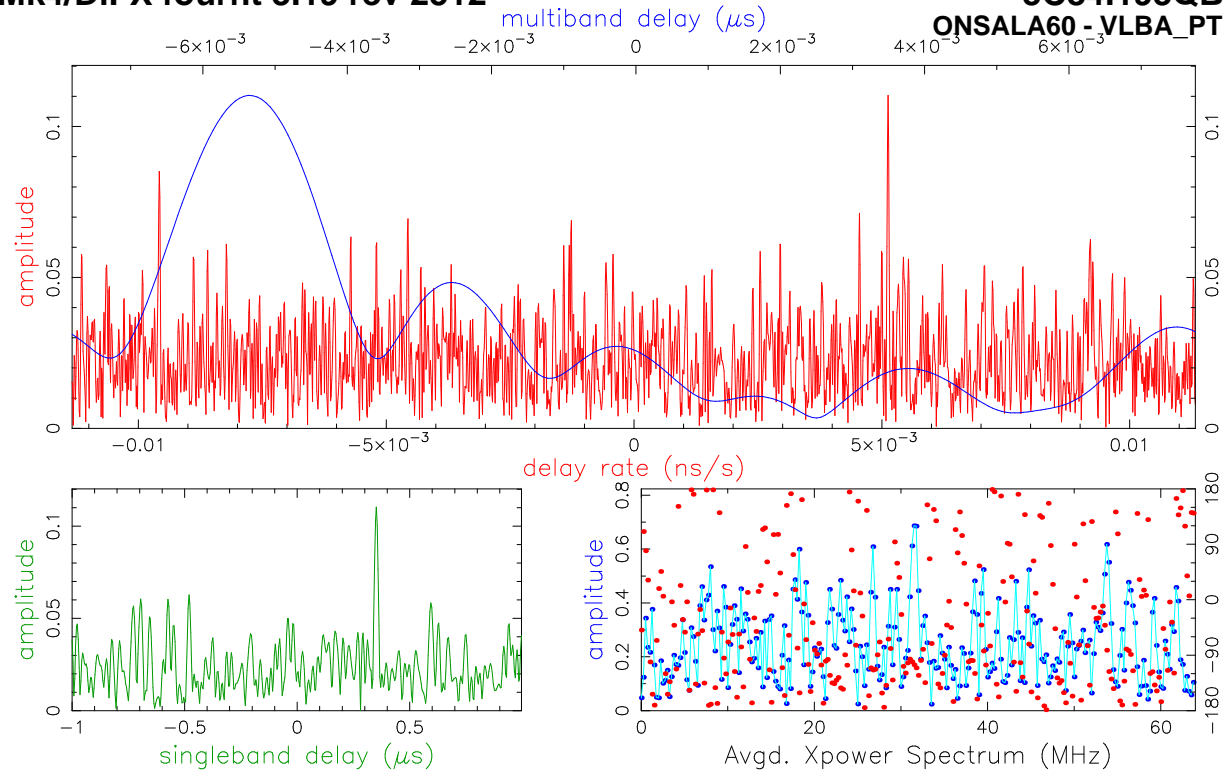


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	102.3	80.0	-3.2	38.5	-27.4	47.0	8.6	110.1	Phase	41.1
	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.2	Ampl.	0.2
	461.9	252.5	253.8	253.9	253.8	253.8	384.4	254.6	Sbd box	253.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.42259058585E+02	Apriori delay (usec)	-3.42250168626E+02	Resid mbdelay (usec)	6.73504E-03	+/-	1.5E-04
Sband delay (usec)	-3.42264210876E+02	Apriori clock (usec)	2.0715445E+01	Resid sbdelay (usec)	-1.40422E-02	+/-	1.2E-03
Phase delay (usec)	-3.42250167300E+02	Apriori clockrate (us/s)	3.2700001E-07	Resid phdelay (usec)	1.32651E-06	+/-	5.2E-07
Delay rate (us/s)	-1.38728421190E+00	Apriori rate (us/s)	-1.38728420141E+00	Resid rate (us/s)	-1.04867E-08	+/-	2.5E-09
Total phase (deg)	-148.0	Apriori accel (us/s/s)	1.97200148459E-05	Resid phase (deg)	41.1	+/-	16.0

ph/seg (deg)	56.7	Theor.	38.4	Amplitude	0.141 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.5	Search (2048X32)	0.138	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	54.4	Interp.	0.000	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	55.2	Inc. seg. avg.	0.173	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.182	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

X: az 281.6 el 44.0 pa 44.9 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 10642.565 2876.605 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xo..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xo.W.238.193QBF

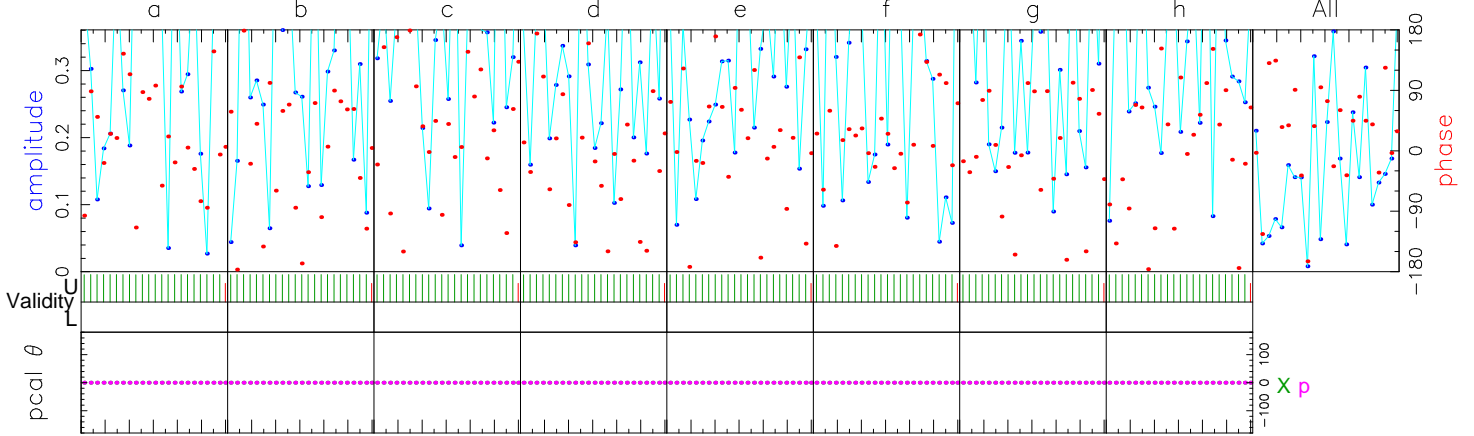


Fringe quality 0

SNR 5.7
Int time 359.145
Amp 0.120
Phase 34.8
PFD 9.3e-01
Delays (us)
SBD 0.351292
MBD -0.005360
Fringe rate (Hz)
0.442551
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

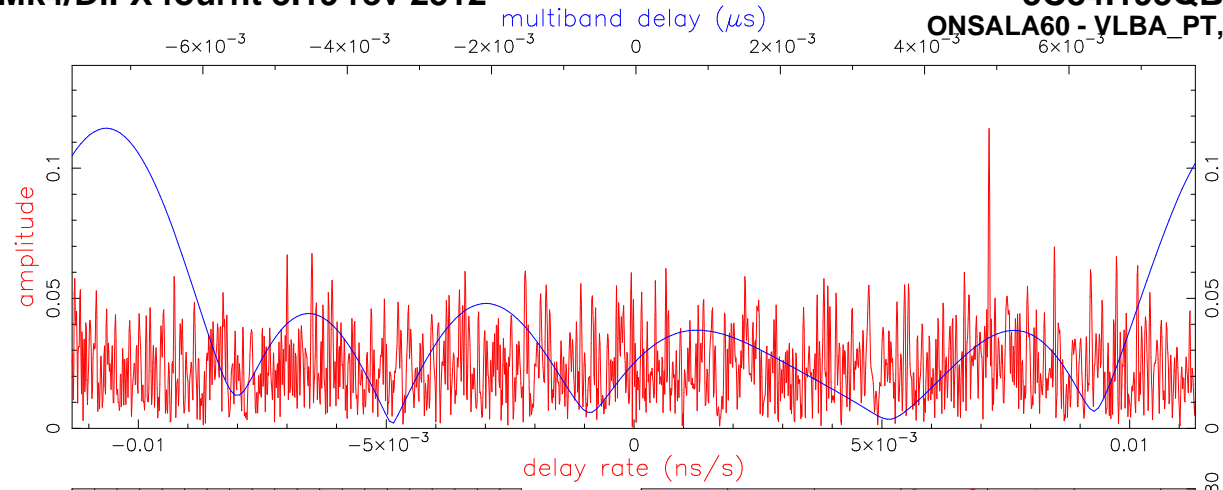
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122523
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
23.8	48.7	72.0	17.8	40.6	29.7	28.9	46.7	46.7	Phase	34.8
0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
491.4	416.5	377.4	92.2	80.5	511.5	21.1	362.8	362.8	Sbd box	346.9
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.88867731073E+03		Apriori delay (usec)	-1.88903132605E+03	Resid mbdelay (usec)	-5.35968E-03	+/-	1.9E-04		
Sband delay (usec)	-1.88868003430E+03		Apriori clock (usec)	2.3523680E+01	Resid sbdelay (usec)	3.51292E-01	+/-	1.5E-03		
Phase delay (usec)	-1.88903132493E+03		Apriori clockrate (us/s)	3.2400002E-07	Resid phdelay (usec)	1.12254E-06	+/-	6.5E-07		
Delay rate (us/s)	-1.31743849054E+00		Apriori rate (us/s)	-1.31744362811E+00	Resid rate (us/s)	5.13757E-06	+/-	3.1E-09		
Total phase (deg)		-118.7	Apriori accel (us/s/s)	3.10583624421E-05	Resid phase (deg)	34.8	+/-	20.0		

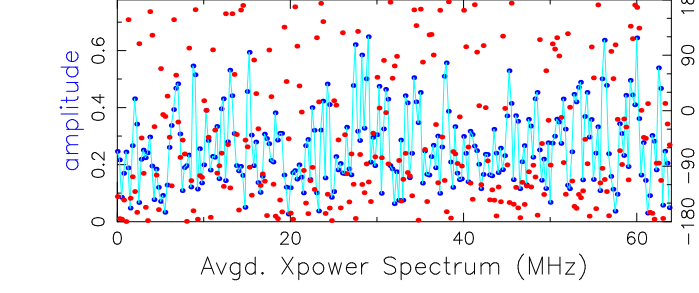
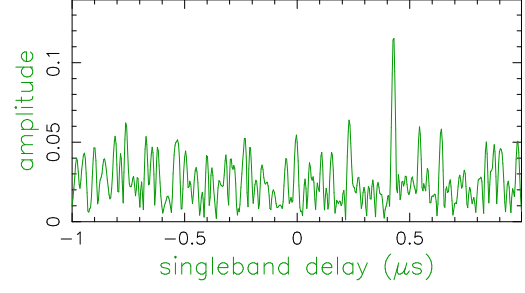
ph/seg (deg) 69.7 48.0 Search (2048X32) 0.109 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 100.1 83.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.3 28.3 Inc. seg. avg. 0.126 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.0 49.5 Inc. frq. avg. 0.110 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 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.189.193QBF



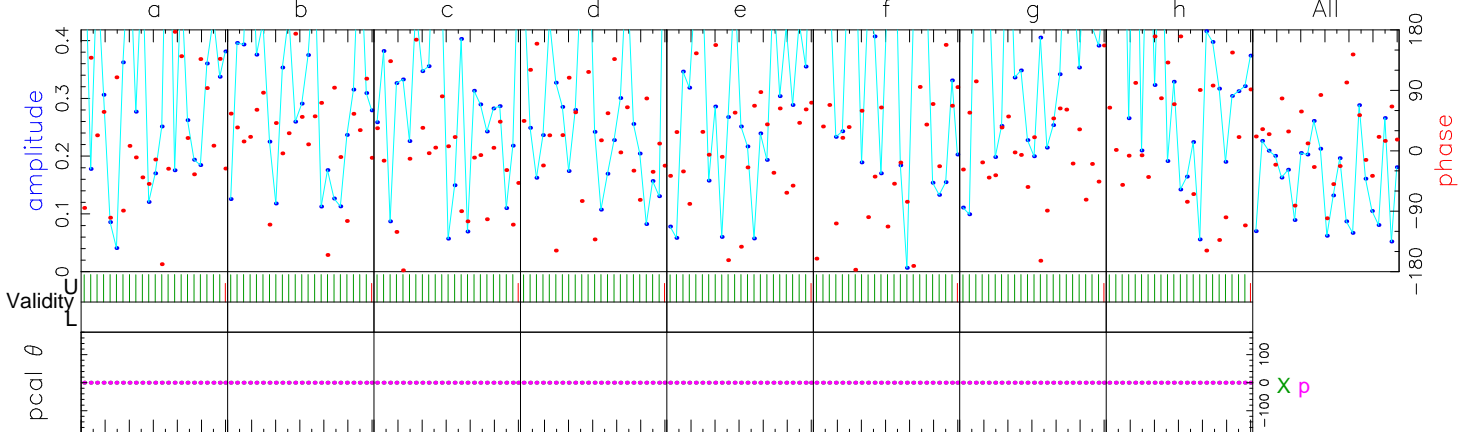
Fringe quality 0

SNR 6.1
Int time 359.145
Amp 0.140
Phase 18.6
PFD 2.5e-01
Delays (us)
SBD 0.427904
MBD 0.008232
Fringe rate (Hz) 0.618321
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122527
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

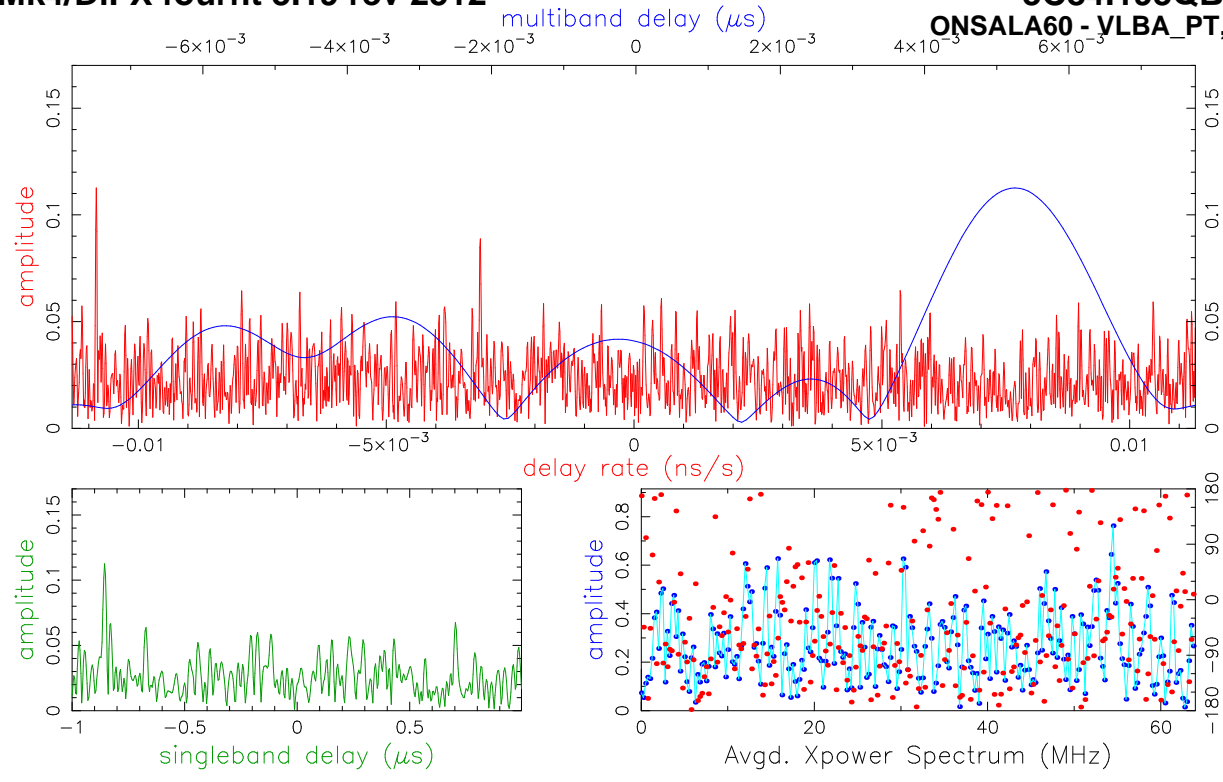


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



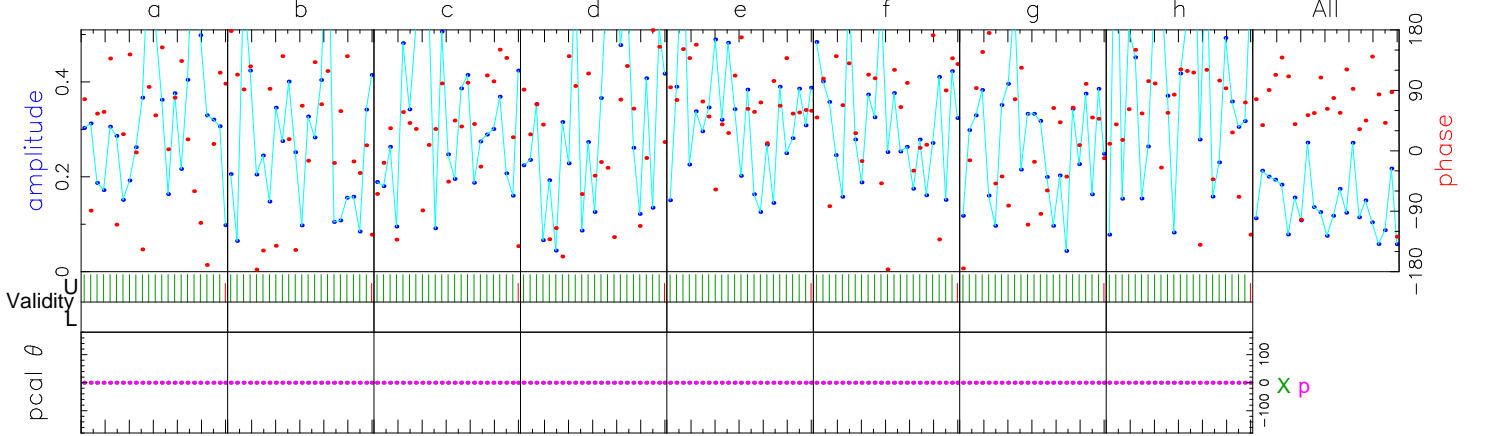
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.4	38.2	-9.5	30.8	24.4	32.2	7.0	41.2		Phase 18.6
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1		Ampl. 0.1
	369.4	366.9	438.0	196.2	119.1	485.1	365.9	68.1		Sbd box 366.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	-1.88860121874E+03		Apriori delay (usec)		-1.88903132605E+03		Resid mbdelay (usec)		8.23231E-03	+/- 1.8E-04
Sband delay (usec)	-1.88860342255E+03		Apriori clock (usec)		2.3523680E+01		Resid sbdelay (usec)		4.27904E-01	+/- 1.4E-03
Phase delay (usec)	-1.88903132546E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		5.98680E-07	+/- 6.1E-07
Delay rate (us/s)	-1.31743645002E+00		Apriori rate (us/s)		-1.31744362811E+00		Resid rate (us/s)		7.17809E-06	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		3.10583624421E-05		Resid phase (deg)		18.6	+/- 18.8

ph/seg (deg) 57.0 45.1 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.2 78.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.8 26.6 Inc. seg. avg. 0.145 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.8 46.4 Inc. frq. avg. 0.130 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 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.206.193QBF



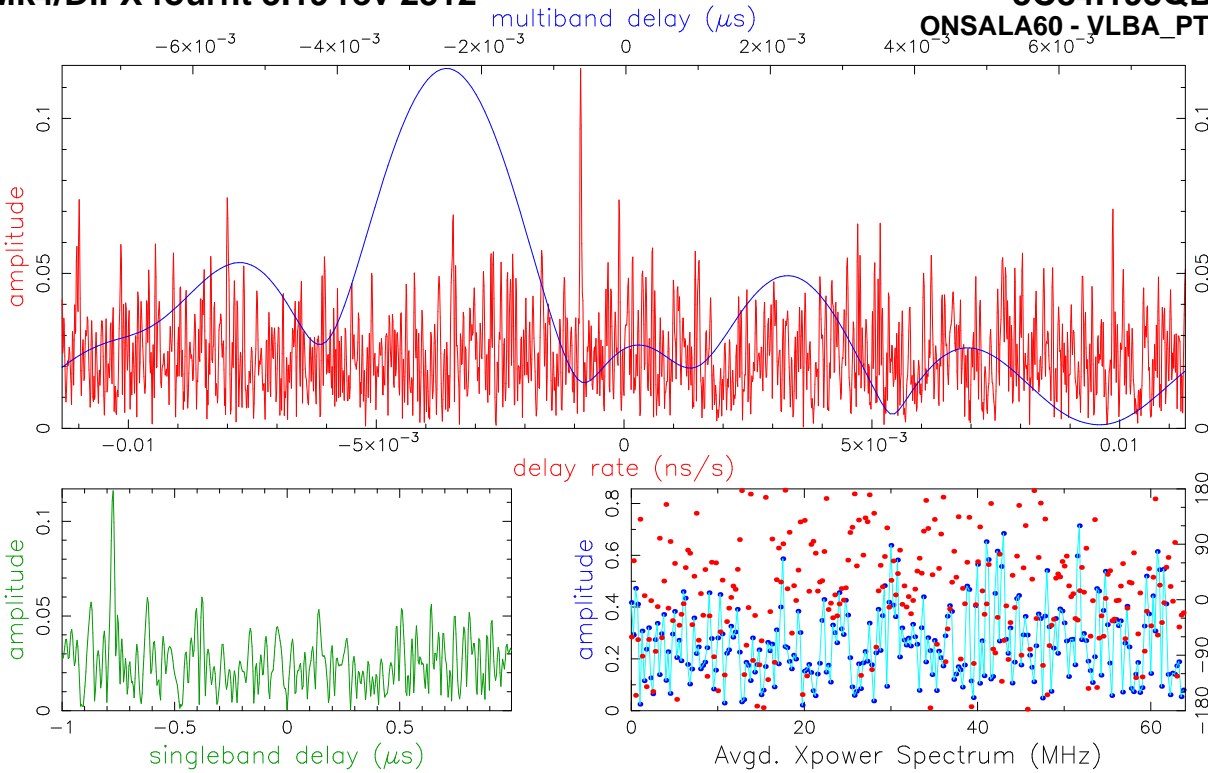
Fringe quality 0
SNR 5.8
Int time 359.145
Amp 0.170
Phase 78.5
PFD 7.4e-01
Delays (us)
SBD -0.855250
MBD 0.005251
Fringe rate (Hz)
-0.936311
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122531
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
74.2	111.9	45.3	86.1	76.8	101.2	32.2	85.7	85.7	Phase	78.5
0.1	0.2	0.2	0.1	0.3	0.2	0.1	0.3	0.3	Ampl.	0.2
298.4	227.3	288.8	33.0	39.3	429.1	507.0	38.2	38.2	Sbd box	38.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.88988545034E+03		Apriori delay (usec)		-1.88903132605E+03		Resid mbdelay (usec)		5.25071E-03	+/- 1.9E-04
Sband delay (usec)	-1.88988657580E+03		Apriori clock (usec)		2.3523680E+01		Resid sbdelay (usec)		-8.55250E-01	+/- 1.5E-03
Phase delay (usec)	-1.88903132352E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		2.53182E-06	+/- 6.3E-07
Delay rate (us/s)	-1.31745449775E+00		Apriori rate (us/s)		-1.31744362811E+00		Resid rate (us/s)		-1.08696E-05	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.10583624421E-05		Resid phase (deg)		78.5	+/- 19.6

ph/seg (deg) 55.8 47.1 Search (2048X32) 0.110 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 61.1 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.9 27.8 Inc. seg. avg. 0.165 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 49.9 48.4 Inc. frq. avg. 0.165 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 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.229.193QBF

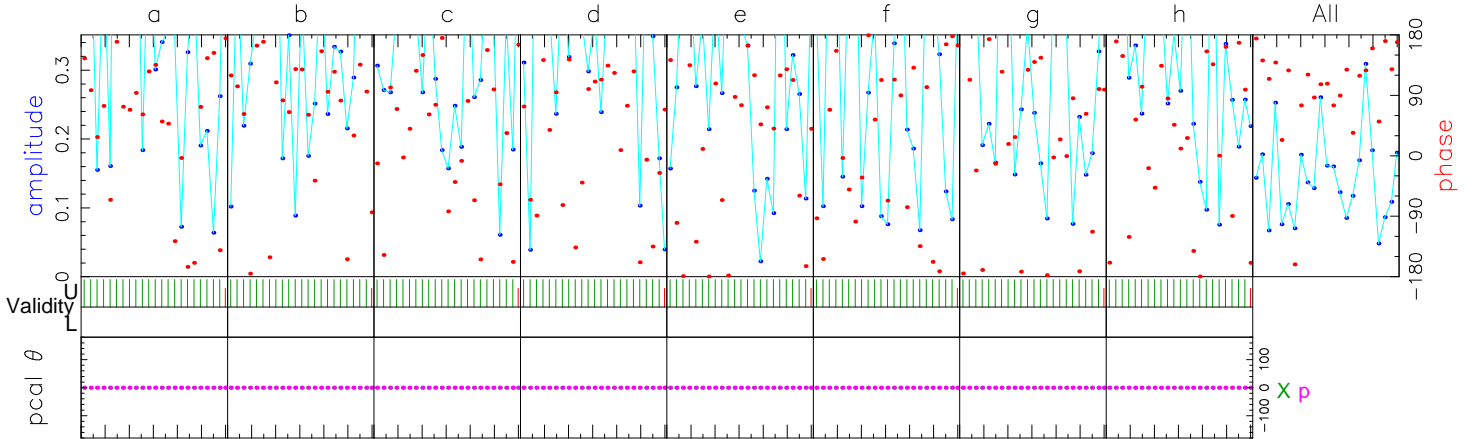


Fringe quality 0

SNR 6.1
Int time 359.145
Amp 0.117
Phase 119.5
PFD 3.1e-01
Delays (us)
SBD -0.774425
MBD -0.002503
Fringe rate (Hz)
-0.075270
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

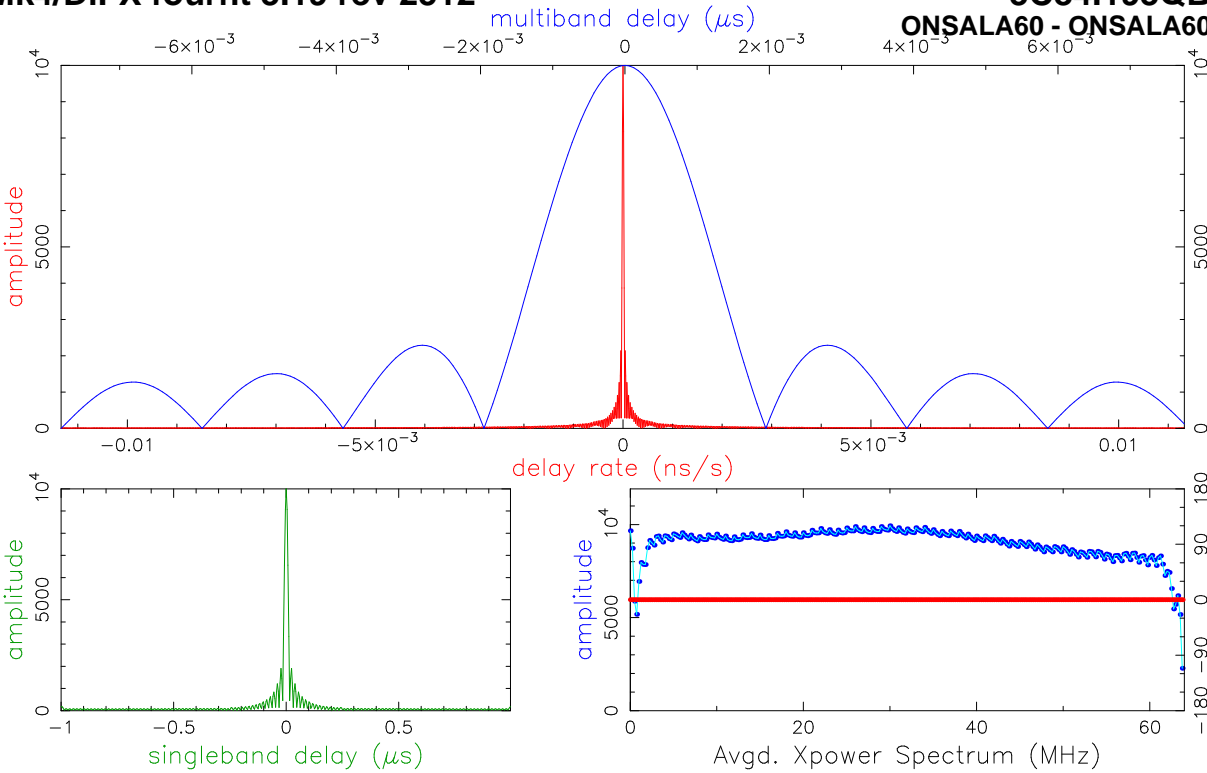
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122535
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Validity	124.4	125.7	81.7	99.5	129.9	152.4	95.9	132.5	Phase	119.5
U/L	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
X	85.1	82.8	265.9	296.8	388.2	97.7	483.6	121.8	Sbd box	58.7
X:p	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X:p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-1.88979945358E+03		Apriori delay (usec)		-1.88903132605E+03		Resid mbdelay (usec)		-2.50252E-03	+/- 1.8E-04
Sband delay (usec)	-1.88980575130E+03		Apriori clock (usec)		2.3523680E+01		Resid sbdelay (usec)		-7.74425E-01	+/- 1.4E-03
Phase delay (usec)	-1.88903132220E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		3.85250E-06	+/- 6.1E-07
Delay rate (us/s)	-1.31744450192E+00		Apriori rate (us/s)		-1.31744362811E+00		Resid rate (us/s)		-8.73813E-07	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		3.10583624421E-05		Resid phase (deg)		119.5	+/- 18.9

ph/seg (deg) 43.9 45.4 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.0 79.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.2 26.8 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.6 46.7 Inc. frq. avg. 0.111 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 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.241.193QBF simultaneous interpolator

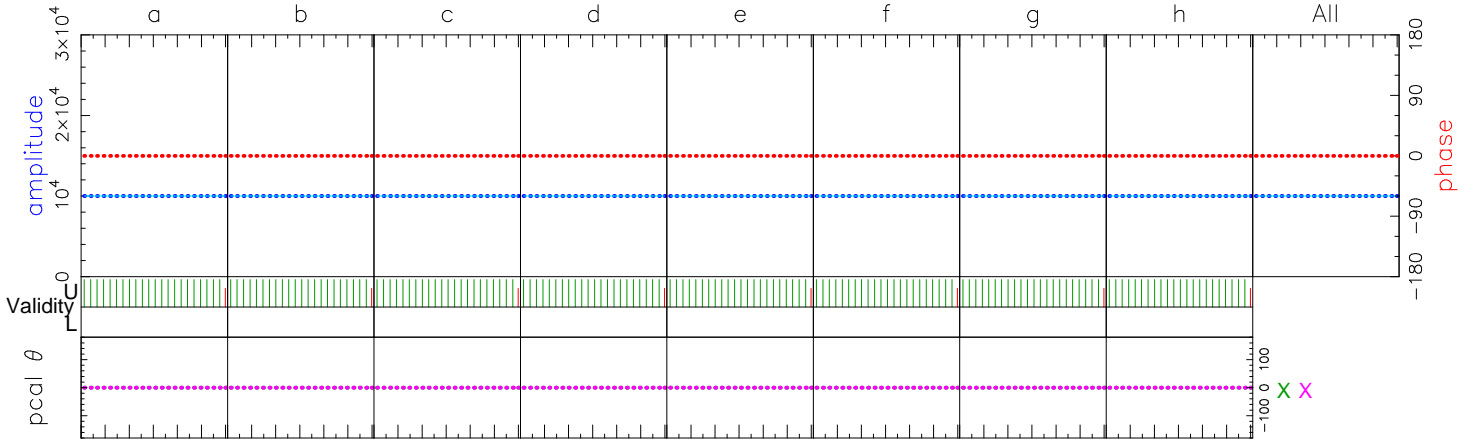


Fringe quality 9

SNR 518773.6
 Int time 359.882
 Amp 10000.001
 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. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122524
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



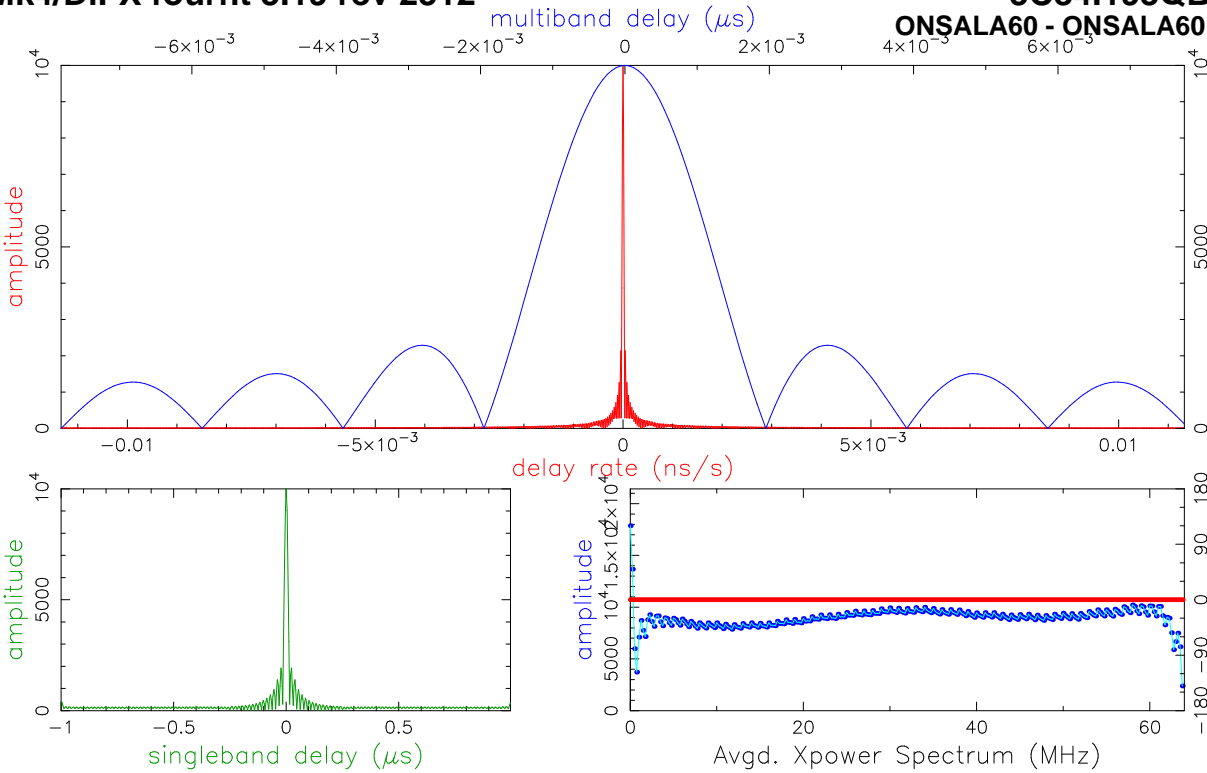
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	0.00000000000E+00	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-2.46676000233E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.46676E-20	+/-	7.1E-12
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

	RMS	Theor.	Amplitude	10000.001 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (2048X32)	10000.001	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	0.0	0.0	Inc. frq. avg.	10000.001	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

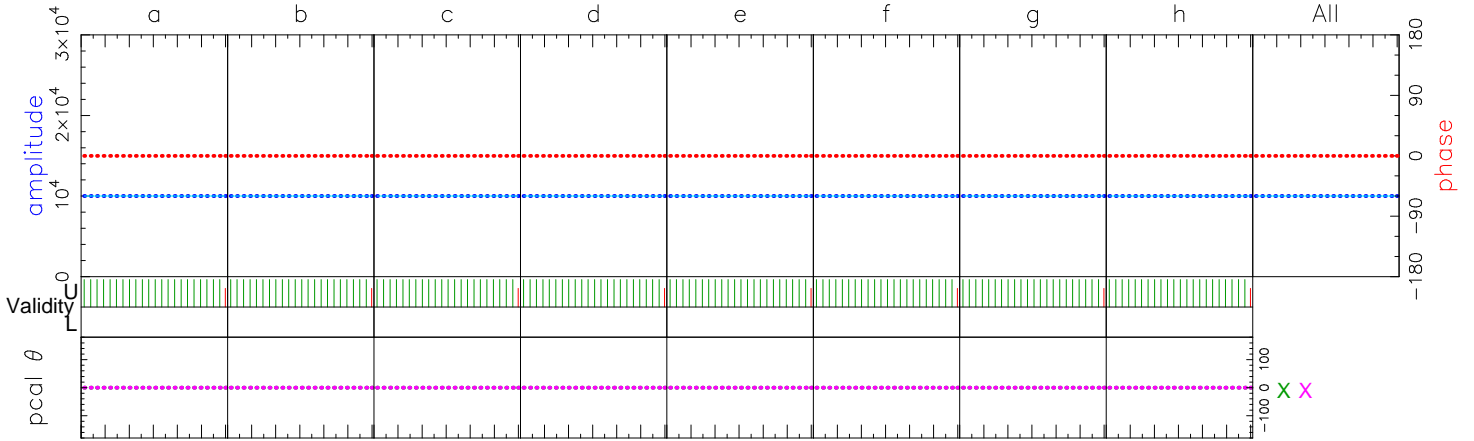
X: az 281.6 el 44.0 pa 44.9 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XX..193QBF Output file: /Exps/c201d/v1/1234/No0057/XX.W.192.193QBF



Fringe quality 9
 SNR 518773.6
 Int time 359.882
 Amp 10000.001
 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. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122528
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

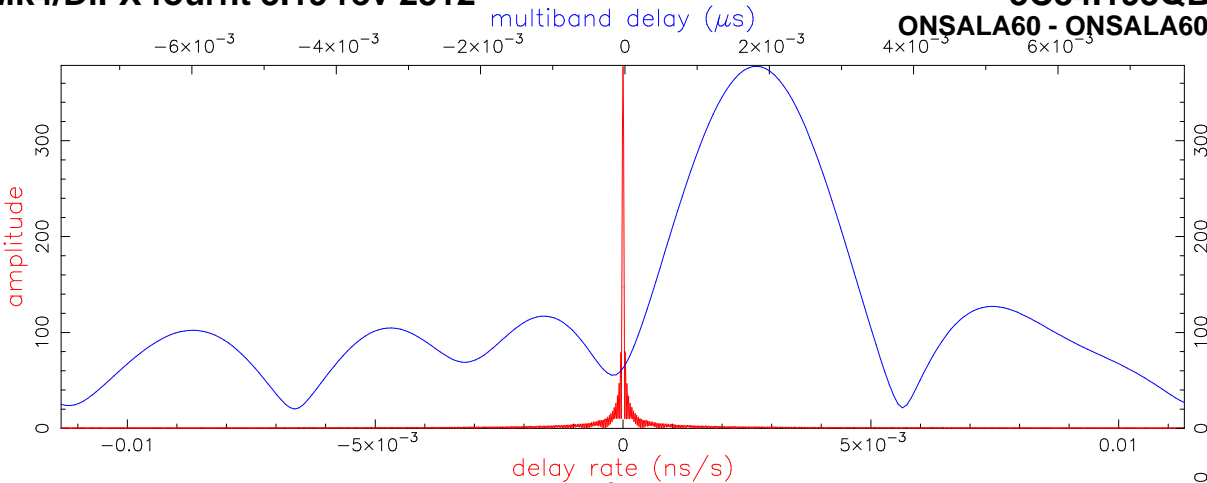


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	0.00000000000E+00	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-6.33877102669E-21	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-6.33877E-21	+/-	7.1E-12
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

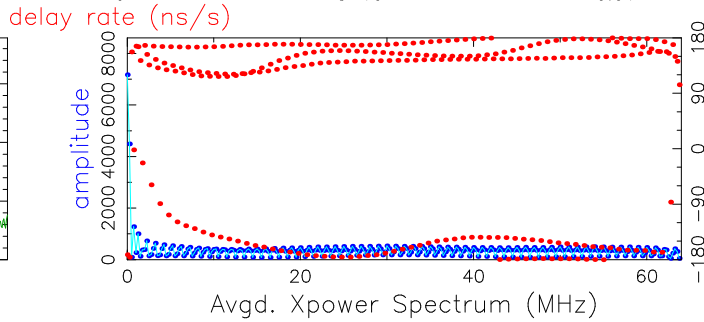
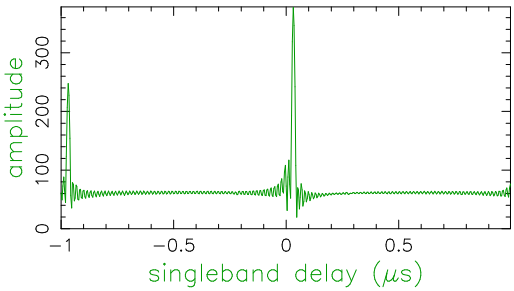
ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.001 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.001	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	10000.001	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	
						nlags:	256	t_cohere	infinite	
X: az 281.6 el 44.0 pa 44.9				X: az 281.6 el 44.0 pa 44.9				u,v (vr/asec)	0.000 0.000	
Control file: cf_1234_gmva				Input file: /Exps/c201d/v1/1234/No0057/XX..193QBF				Output file: /Exps/c201d/v1/1234/No0057/XX.W.212.193QBF		

simultaneous interpolator



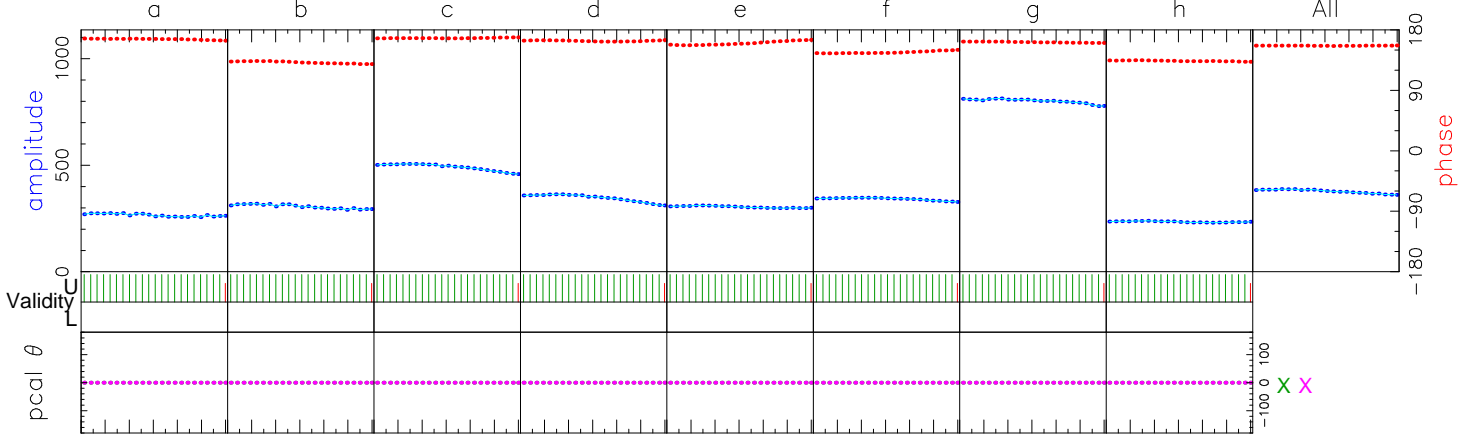
Fringe quality 6

SNR 19639.1
 Int time 359.882
 Amp 378.568
 Phase 156.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.031865
 MBD 0.001857
 Fringe rate (Hz)
 0.000002
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122531
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



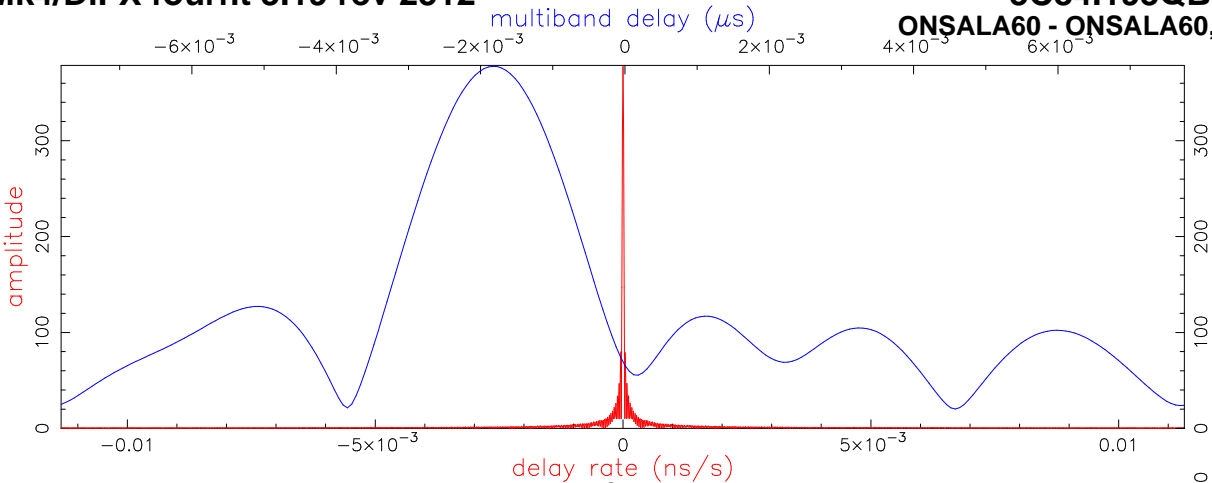
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	166.1	131.5	167.7	163.5	160.1	146.5	161.6	133.7	Phase	156.3
	266.0	306.1	490.9	346.3	304.1	341.5	801.5	234.5	Ampl.	386.4
	263.9	266.3	265.2	265.4	265.8	265.2	264.9	264.8	Sbd box	265.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.31073125000E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.85731E-03	+/-	5.5E-08
Sband delay (usec)	3.18645000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.18645E-02	+/-	4.4E-07
Phase delay (usec)	5.04184875942E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.04185E-06	+/-	1.9E-10
Delay rate (us/s)	2.19652862071E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.19653E-11	+/-	9.1E-13
Total phase (deg)	156.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	156.3	+/-	0.0

ph/seg (deg)	RMS 0.2	Theor. 0.0	Amplitude 378.568 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	2.3	0.0	Search (2048X32) 375.074	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	16.0	0.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.6	0.0	Inc. seg. avg. 377.429	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 386.356	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

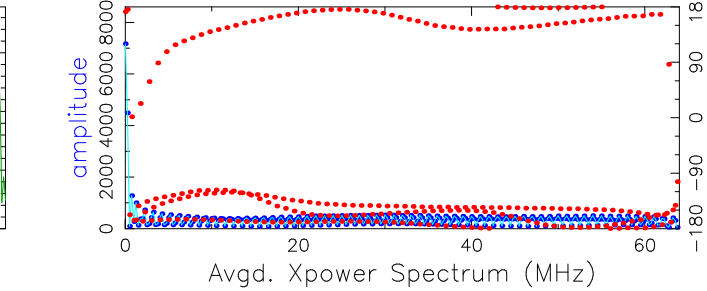
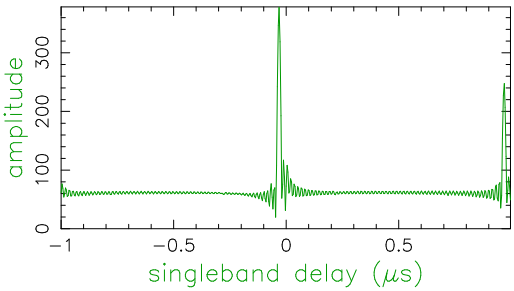
X: az 281.6 el 44.0 pa 44.9 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XX..193QBF Output file: /Exps/c201d/v1/1234/No0057/XX.W.227.193QBF



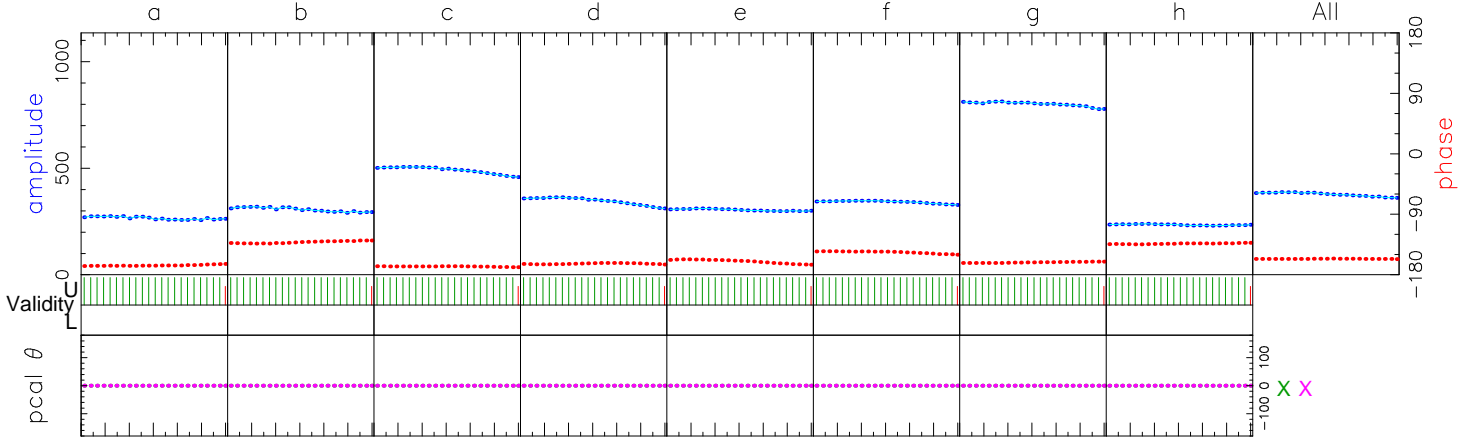
Fringe quality 6

SNR 19639.1
 Int time 359.882
 Amp 378.568
 Phase -156.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.031865
 MBD -0.001857
 Fringe rate (Hz)
 -0.000002
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122534
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

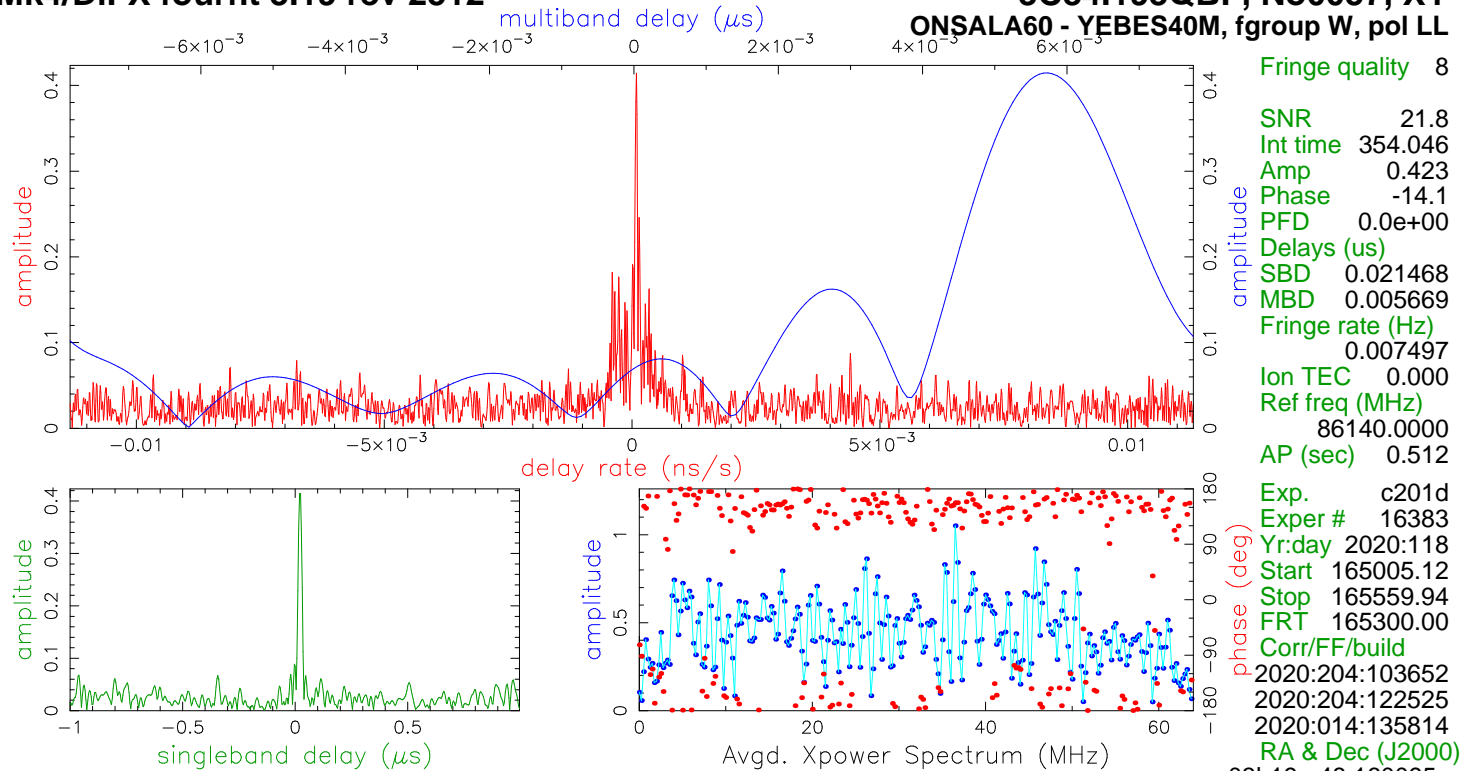


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-166.1	-131.5	-167.7	-163.5	-160.1	-146.5	-161.6	-133.7	Phase	-156.3
	266.0	306.1	490.9	346.3	304.1	341.5	801.5	234.5	Ampl.	386.4
	250.1	247.7	248.8	248.6	248.2	248.8	249.1	249.2	Sbd box	248.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.31073125000E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.85731E-03	+/- 5.5E-08
Sband delay (usec)	-3.18645000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-3.18645E-02	+/- 4.4E-07
Phase delay (usec)	-5.04184875936E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.04185E-06	+/- 1.9E-10
Delay rate (us/s)	-2.19652862071E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.19653E-11	+/- 9.1E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-156.3	+/- 0.0

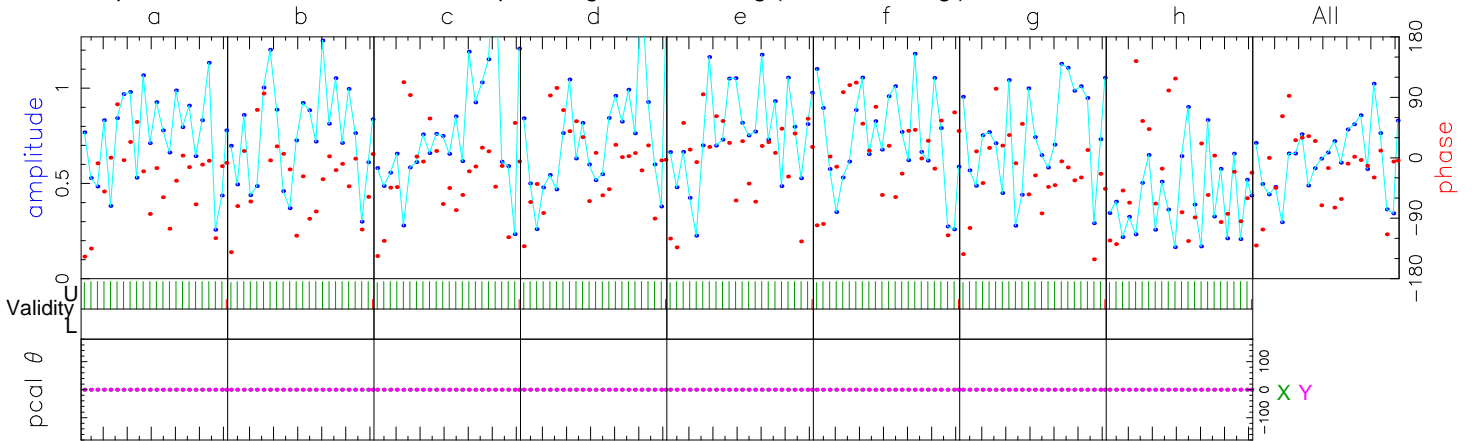
	RMS	Theor.	Amplitude	378.568 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.2	0.0	Search (2048X32)	375.074	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	2.3	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	16.0	0.0	Inc. seg. avg.	377.429	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	45.6	0.0	Inc. frq. avg.	386.356	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

X: az 281.6 el 44.0 pa 44.9 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XX..193QBF Output file: /Exps/c201d/v1/1234/No0057/XX.W.240.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

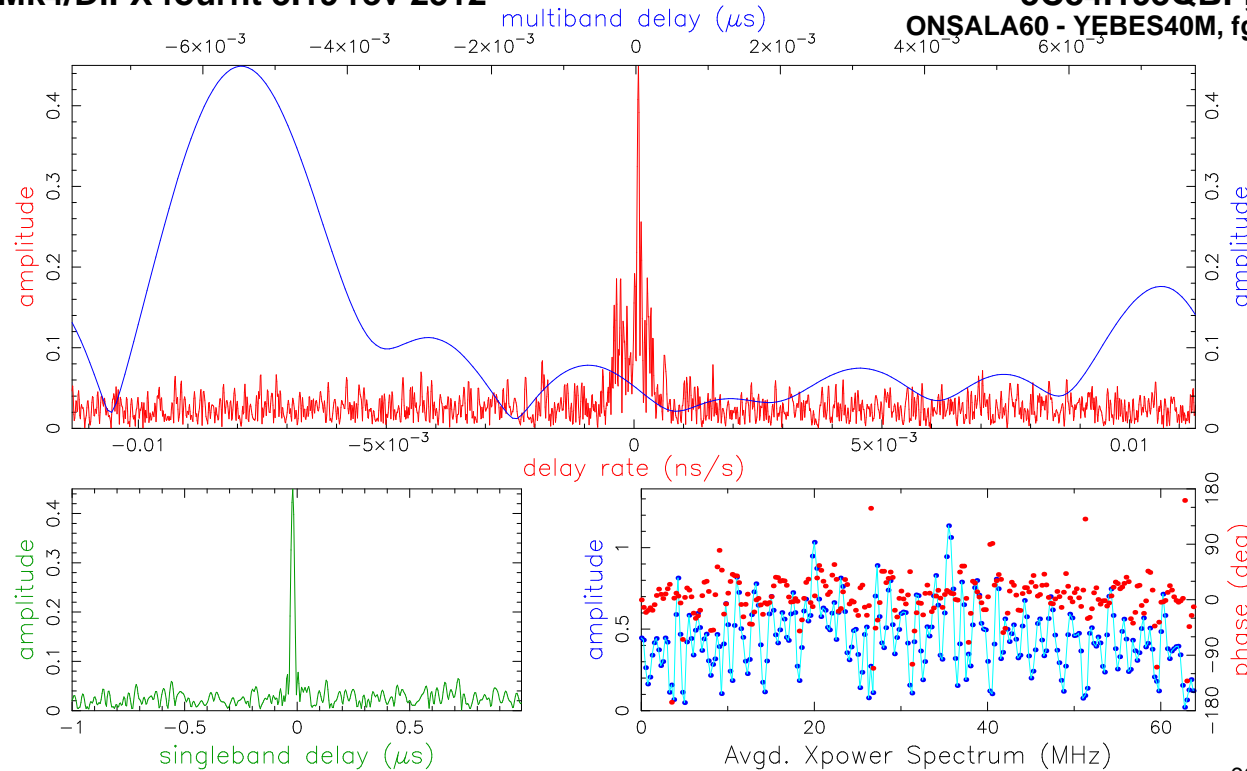


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-23.6	-26.0	-23.9	-1.7	10.7	14.8	-21.6	-59.4		-14.1
	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.2	Ampl.	0.4
	262.6	262.8	262.1	262.7	262.3	261.9	262.7	260.6	Sbd box	262.5
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs 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)	-1.23314491748E+03		Apriori delay (usec)	-1.23316621167E+03	Resid mbdelay (usec)	5.66918E-03	+/-	5.0E-05		
Sband delay (usec)	-1.23314474392E+03		Apriori clock (usec)	2.8836597E+01	Resid sbdelay (usec)	2.14678E-02	+/-	4.0E-04		
Phase delay (usec)	-1.23316621212E+03		Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-4.55345E-07	+/-	1.7E-07		
Delay rate (us/s)	1.39845390066E-01		Apriori rate (us/s)	1.39845303034E-01	Resid rate (us/s)	8.70321E-08	+/-	8.3E-10		
Total phase (deg)		-184.4	Apriori accel (us/s/s)	2.11520945029E-05	Resid phase (deg)	-14.1	+/-	5.3		

	RMS	Theor.	Amplitude	0.423 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	55.0	12.6	Search (2048X32)	0.409	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	63.6	22.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.9	7.4	Inc. seg. avg.	0.612	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	22.3	13.0	Inc. frq. avg.	0.435	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

X: az 281.6 el 44.0 pa 44.9 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1046.911 2759.553 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XY..193QBF Output file: /Exps/c201d/v1/1234/No0057/XY.W.197.193QBF

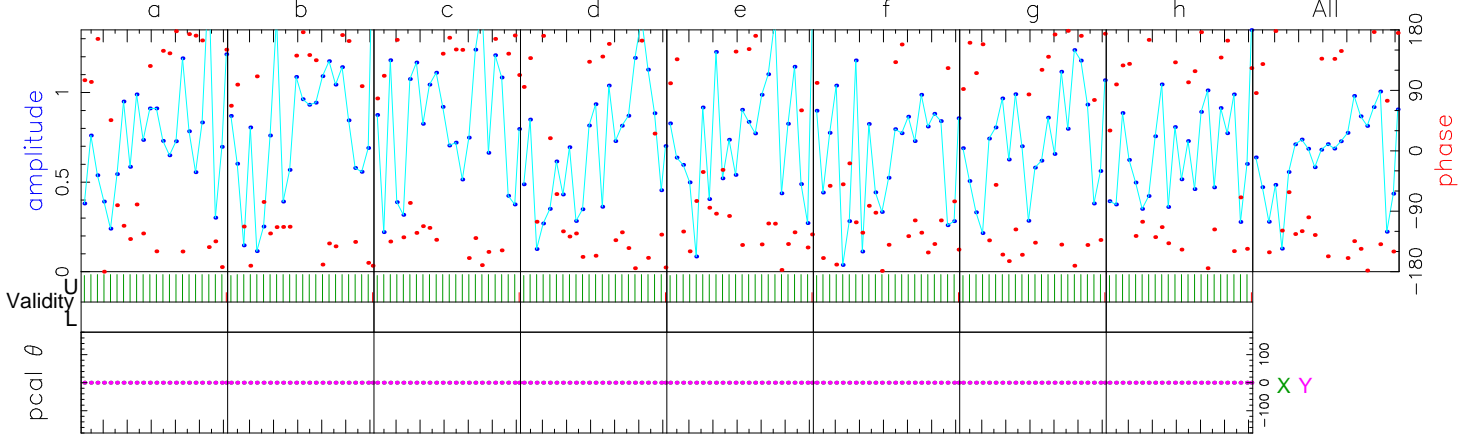


Fringe quality 9

SNR 23.2
Int time 354.046
Amp 0.450
Phase -161.6
PFD 0.0e+00
Delays (us)
SBD -0.020150
MBD -0.005490
Fringe rate (Hz) 0.007649
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

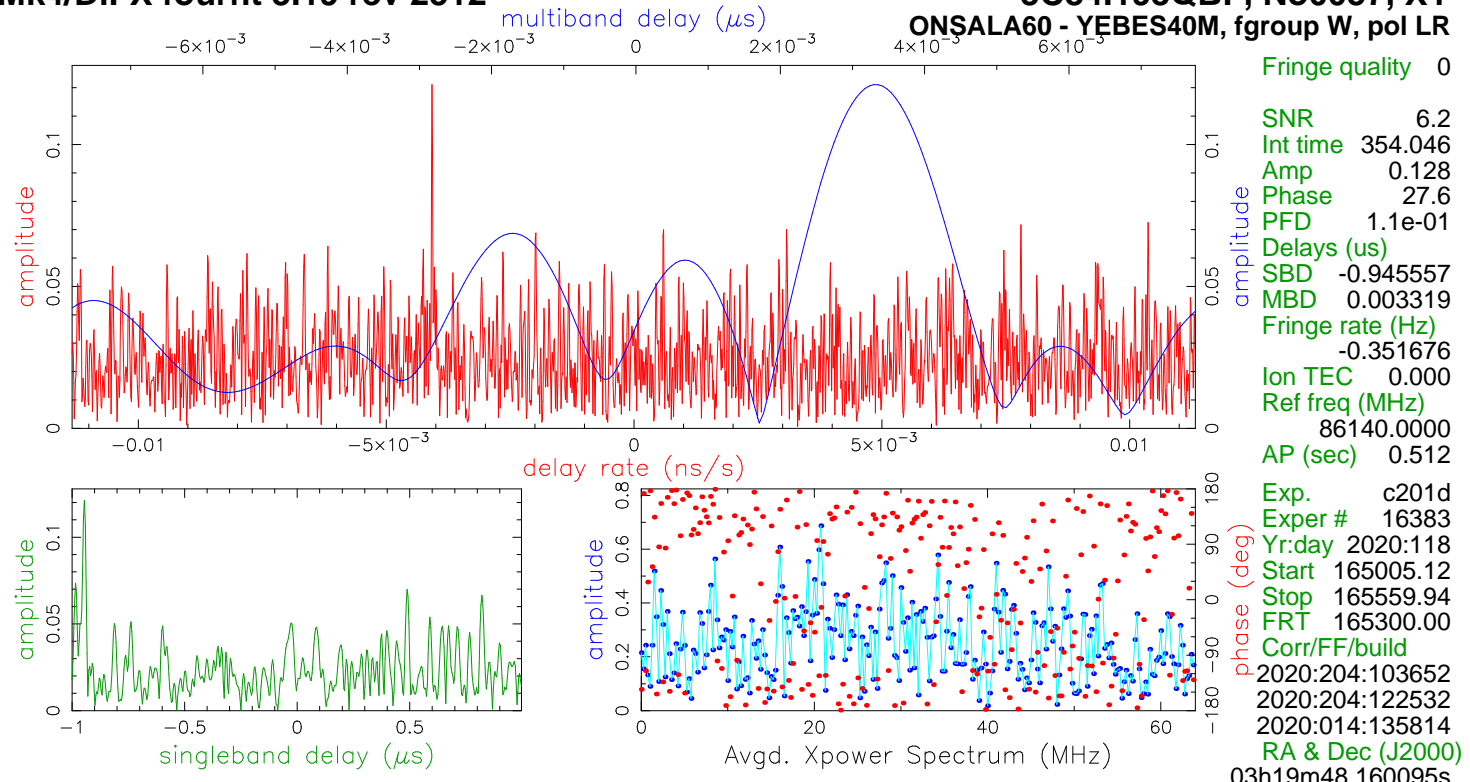
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122528
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



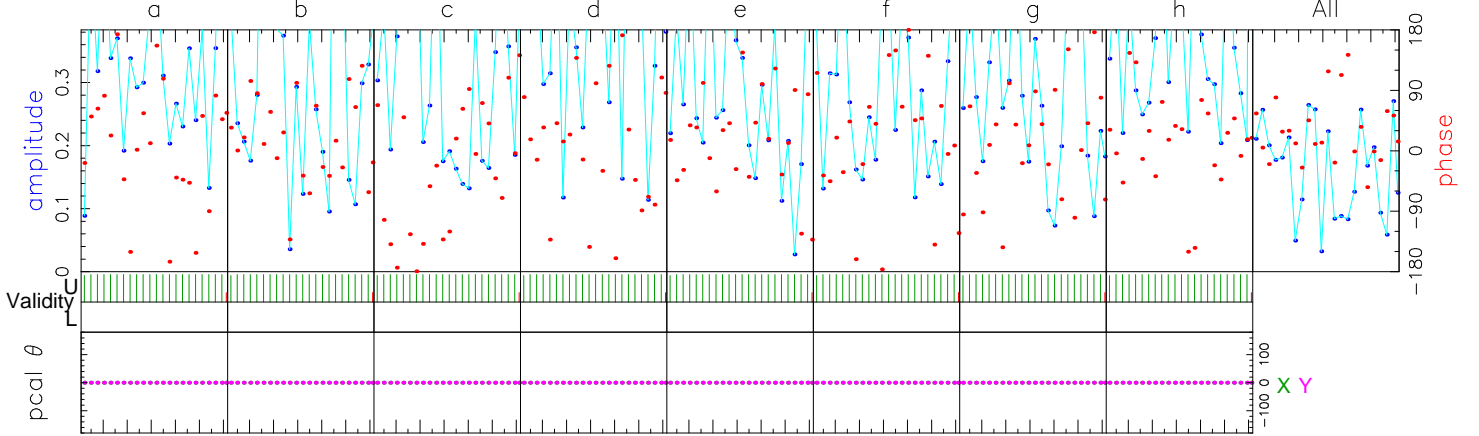
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.23318732686E+03	-1.23318636217E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03		
Sband delay (usec)	-1.23318636217E+03	-1.23318636217E+03	-1.23318636217E+03	-1.23318636217E+03	-1.23318636217E+03	-1.23318636217E+03	-1.23318636217E+03	-1.23318636217E+03		
Phase delay (usec)	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03	-1.23318621688E+03		
Delay rate (us/s)	1.39845391826E-01	1.39845391826E-01	1.39845391826E-01	1.39845391826E-01	1.39845391826E-01	1.39845391826E-01	1.39845391826E-01	1.39845391826E-01		
Total phase (deg)			-331.9							
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	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL		
Pcal rate:	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
Bits/sample:	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2		
Sample rate (MSamp/s):	128	128	128	128	128	128	128	128		
Data rate (Mb/s):	2048	2048	2048	2048	2048	2048	2048	2048		
nlags:	256	256	256	256	256	256	256	256		
t_cohere:	infinite	infinite	infinite	infinite	infinite	infinite	infinite	infinite		
sb window (us)	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000		
mb window (us)	-0.008	0.008	-0.008	0.008	-0.008	0.008	-0.008	0.008		
dr window (ns/s)	-0.011	0.011	-0.011	0.011	-0.011	0.011	-0.011	0.011		
ion window (TEC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

ph/seg (deg) 54.3 11.9 Search (2048X32) 0.445 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.6 20.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.2 7.0 Inc. seg. avg. 0.632 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.6 12.2 Inc. frq. avg. 0.465 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 281.6 el 44.0 pa 44.9 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1046.911 2759.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XY..193QBF Output file: /Exps/c201d/v1/1234/No0057/XY.W.217.193QBF



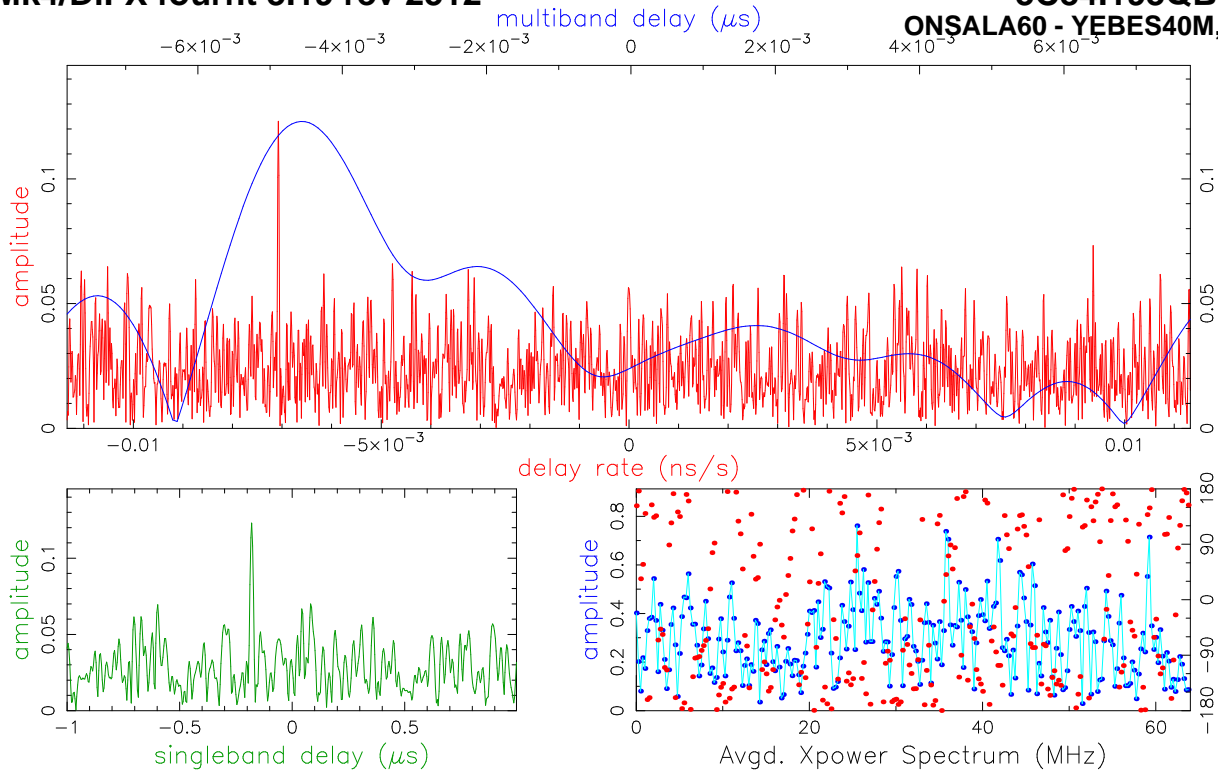
Fringe quality 0
SNR 6.2
Int time 354.046
Amp 0.128
Phase 27.6
PFD 1.1e-01
Delays (us)
SBD -0.945557
MBD 0.003319
Fringe rate (Hz)
-0.351676
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122532
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



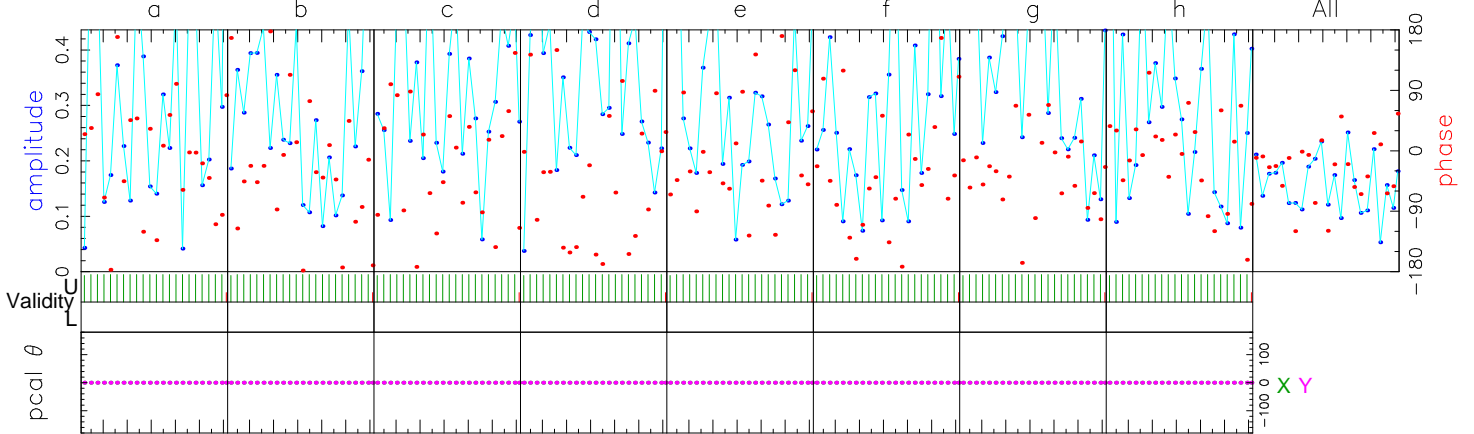
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.23411601780E+03									
Sband delay (usec)	-1.23411176842E+03									
Phase delay (usec)	-1.23316621078E+03									
Delay rate (us/s)	1.39841220424E-01									
Total phase (deg)			-142.7							
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(MSamp/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)										
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)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 48.6 44.1 Search (2048X32) 0.118 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.5 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 38.3 26.0 Inc. seg. avg. 0.133 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.2 45.4 Inc. frq. avg. 0.125 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
X: az 281.6 el 44.0 pa 44.9 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1046.911 2759.553 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XY..193QBF Output file: /Exps/c201d/v1/1234/No0057/XY.W.234.193QBF



Fringe quality 0
SNR 6.3
Int time 354.046
Amp 0.145
Phase -25.7
PFD 6.1e-02
Delays (us)
SBD -0.180126
MBD -0.004561
Fringe rate (Hz)
-0.610496
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122536
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

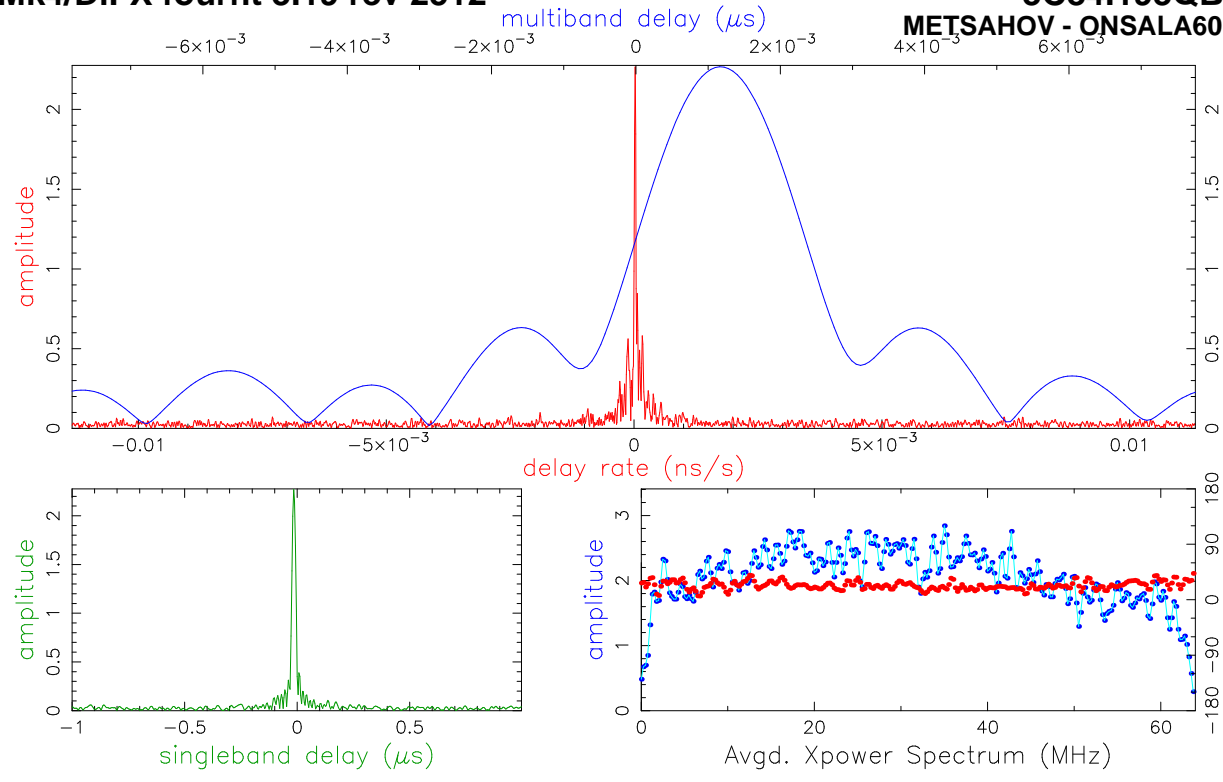


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	21.9	-35.7	-1.9	-88.5	-28.5	-48.1	-24.2	-2.0		Phase	-25.7
	0.1	0.2	0.1	0.1	0.1	0.2	0.3	0.2		Ampl.	0.2
	426.7	154.5	183.9	126.4	86.9	90.7	211.7	219.7		Sbd box	210.9
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	

Group delay (usec)(sbd)	-1.23334264763E+03	Apriori delay (usec)	-1.23316621167E+03	Resid mbdelay (usec)	-4.56097E-03	+/-	1.7E-04
Sband delay (usec)	-1.23334633767E+03	Apriori clock (usec)	2.8836597E+01	Resid sbdelay (usec)	-1.80126E-01	+/-	1.4E-03
Phase delay (usec)	-1.23316621250E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-8.29223E-07	+/-	5.8E-07
Delay rate (us/s)	1.39838215779E-01	Apriori rate (us/s)	1.39845303034E-01	Resid rate (us/s)	-7.08725E-06	+/-	2.8E-09
Total phase (deg)	-196.0	Apriori accel (us/s/s)	2.11520945029E-05	Resid phase (deg)	-25.7	+/-	18.1

ph/seg (deg)	42.9	Theor.	43.4	Amplitude	0.145 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	49.0		75.7	Search (2048X32)	0.121	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	36.4		25.6	Inc. seg. avg.	0.145	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	44.0		44.6	Inc. frq. avg.	0.150	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

X: az 281.6 el 44.0 pa 44.9 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -1046.911 2759.553 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/XY..193QBF Output file: /Exps/c201d/v1/1234/No0057/XY.W.243.193QBF

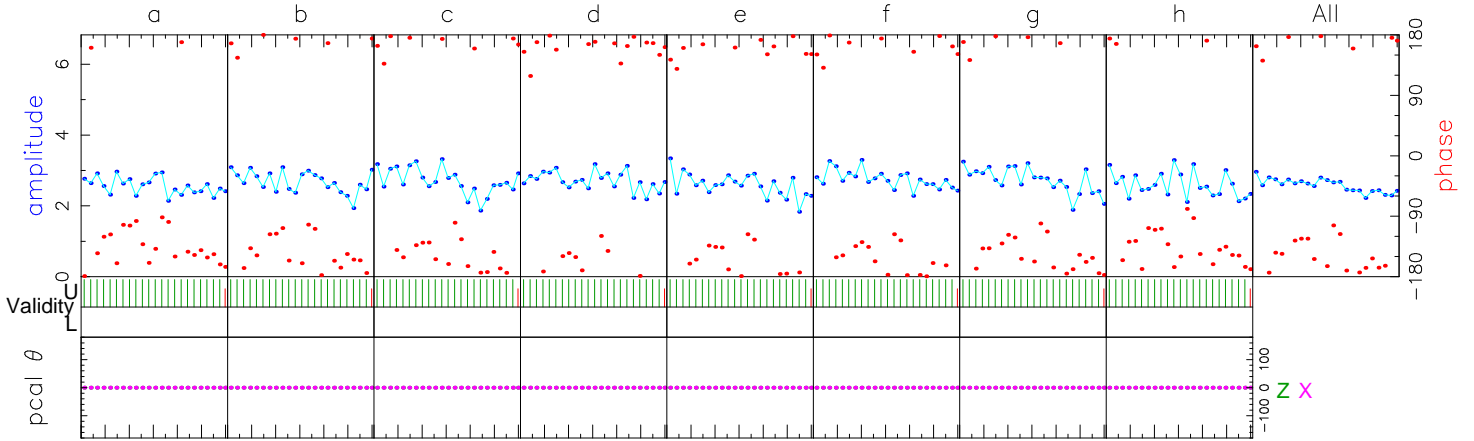


Fringe quality 6

SNR 118.0
 Int time 359.366
 Amp 2.276
 Phase -161.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.014783
 MBD 0.001190
 Fringe rate (Hz)
 0.002240
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122535
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



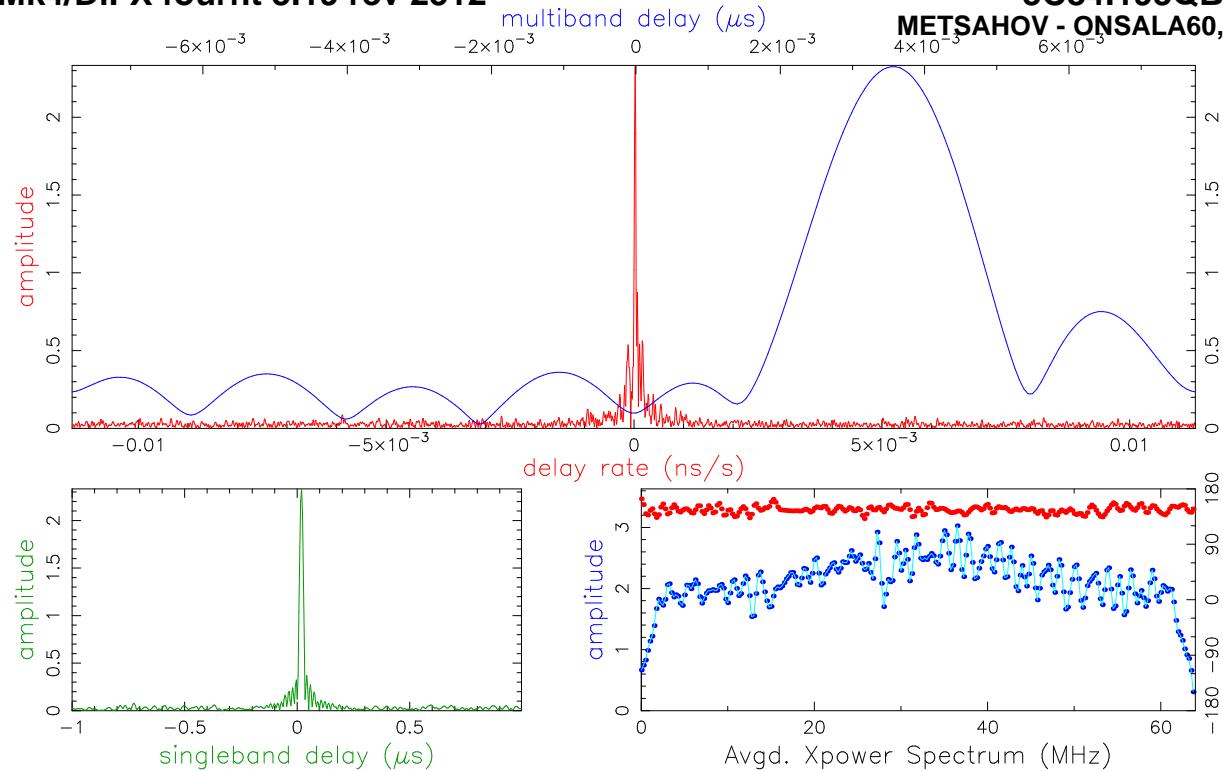
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-140.6	-155.9	-163.4	176.3	-176.6	-169.2	-156.9	-143.9	Phase	-161.5
	2.3	2.3	2.4	2.4	2.2	2.4	2.4	2.3	Ampl.	2.3
	253.1	252.9	253.3	253.0	253.6	253.3	253.6	253.6	Sbd box	253.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.57713284130E+03	Apriori delay (usec)	-1.57711840609E+03	Resid mbdelay (usec)	1.18979E-03	+/-	9.2E-06
Sband delay (usec)	-1.57713318934E+03	Apriori clock (usec)	-4.0942654E+01	Resid sbdelay (usec)	-1.47833E-02	+/-	7.3E-05
Phase delay (usec)	-1.57711841130E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	-5.20688E-06	+/-	3.1E-08
Delay rate (us/s)	1.85980940121E-02	Apriori rate (us/s)	1.85980680031E-02	Resid rate (us/s)	2.60090E-08	+/-	1.5E-10
Total phase (deg)	-341.7	Apriori accel (us/s/s)	1.00852054419E-05	Resid phase (deg)	-161.5	+/-	1.0

ph/seg (deg)	28.7	Theor.	2.3	Amplitude	2.276 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	15.6		4.1	Search (2048X32)	2.181	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	16.2		1.4	Inc. seg. avg.	2.579	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	4.2		2.4	Inc. frq. avg.	2.336	Sample rate (MSamp/s):	128	nlags:	256	dr window (ns/s)	-0.011 0.011
						Data rate (Mb/s):	2048	t_cohere	infinite	ion window (TEC)	0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZX..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZX.W.242.193QBF

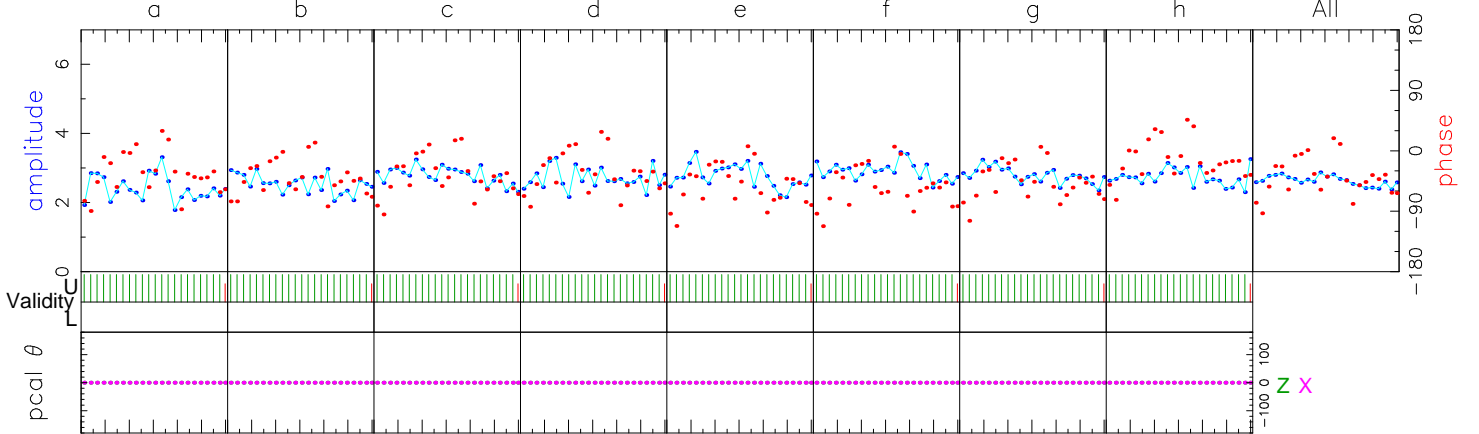


Fringe quality 6

SNR 120.9
 Int time 359.366
 Amp 2.333
 Phase -38.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.018761
 MBD 0.003545
 Fringe rate (Hz) 0.002237
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

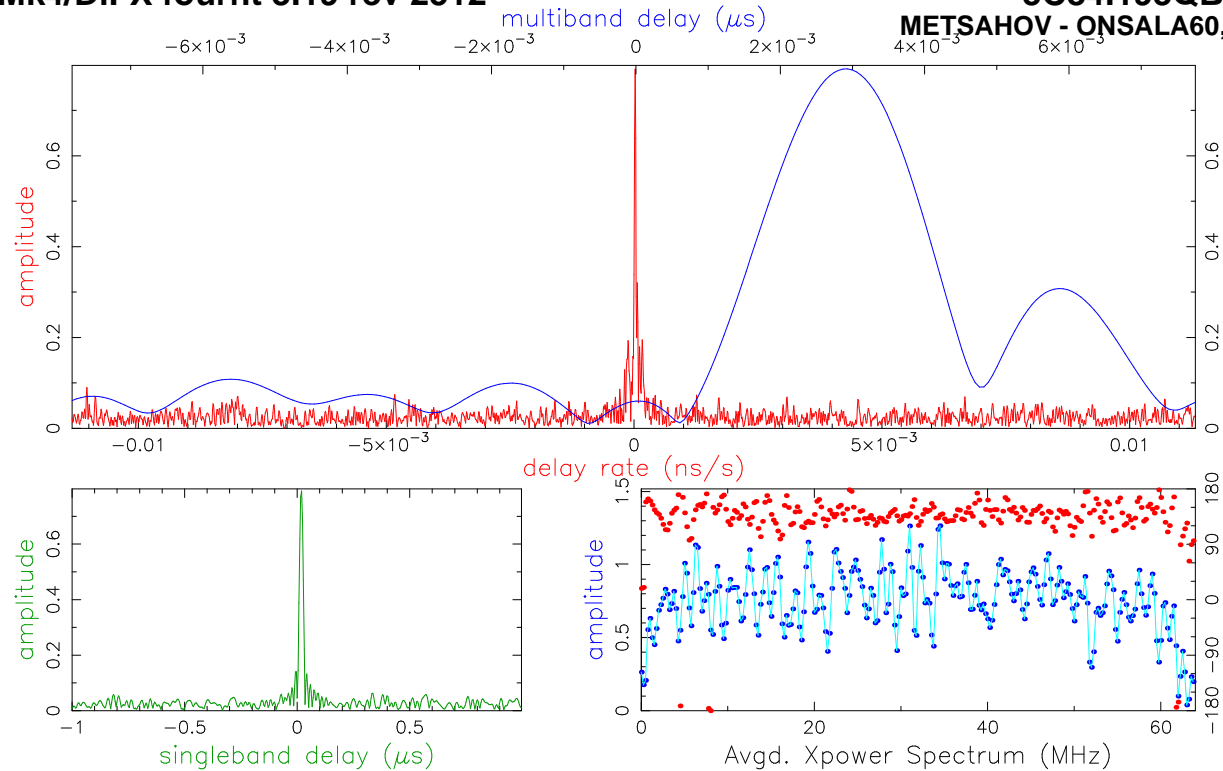
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122538
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-32.3	-40.9	-36.1	-32.9	-51.2	-53.9	-46.3	-12.8	Phase	-38.6
	2.1	2.3	2.4	2.4	2.4	2.6	2.5	2.4	Ampl.	2.4
	261.4	261.6	261.8	261.9	261.6	261.9	262.2	262.2	Sbd box	261.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.57709923652E+03		Apriori delay (usec)		-1.57711840609E+03		Resid mbdelay (usec)		3.54457E-03	+/- 9.0E-06
Sband delay (usec)	-1.57709964484E+03		Apriori clock (usec)		-4.0942654E+01		Resid sbdelay (usec)		1.87612E-02	+/- 7.1E-05
Phase delay (usec)	-1.57711840734E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-1.24601E-06	+/- 3.1E-08
Delay rate (us/s)	1.85980939745E-02		Apriori rate (us/s)		1.85980680031E-02		Resid rate (us/s)		2.59715E-08	+/- 1.5E-10
Total phase (deg)			Apriori accel (us/s/s)		1.00852054419E-05		Resid phase (deg)		-38.6	+/- 0.9

ph/seg (deg) 28.3 2.3 Theor. Amplitude 2.333 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 14.2 4.0 Search (2048X32) 2.252 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.1 1.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.3 2.3 Inc. seg. avg. 2.632 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZX..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZX.W.250.193QBF simultaneous interpolator

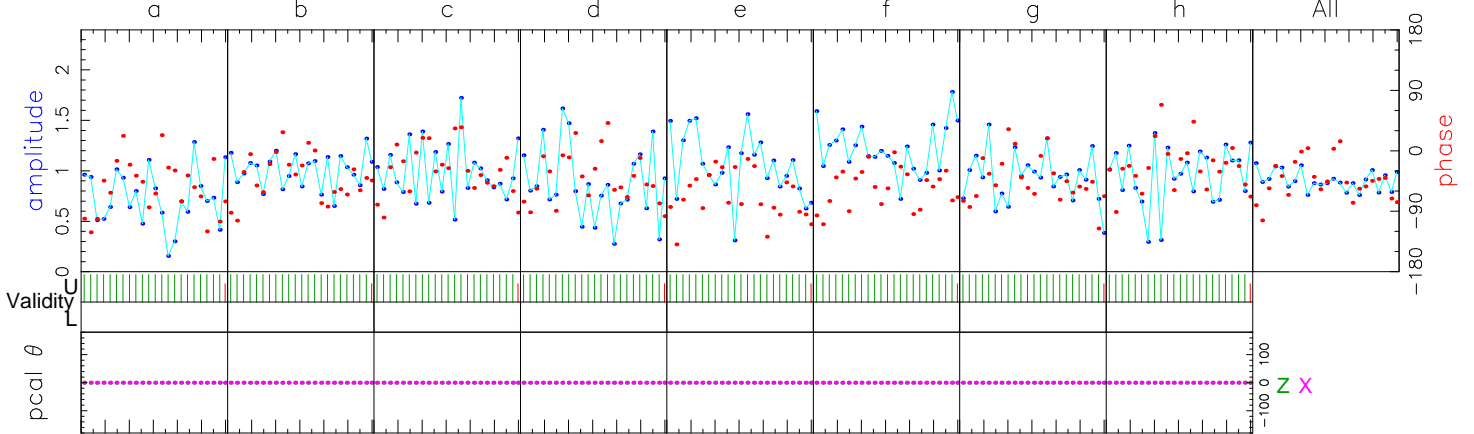


Fringe quality 7

SNR 41.4
 Int time 359.366
 Amp 0.799
 Phase -43.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.018205
 MBD 0.002874
 Fringe rate (Hz)
 0.002324
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122542
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

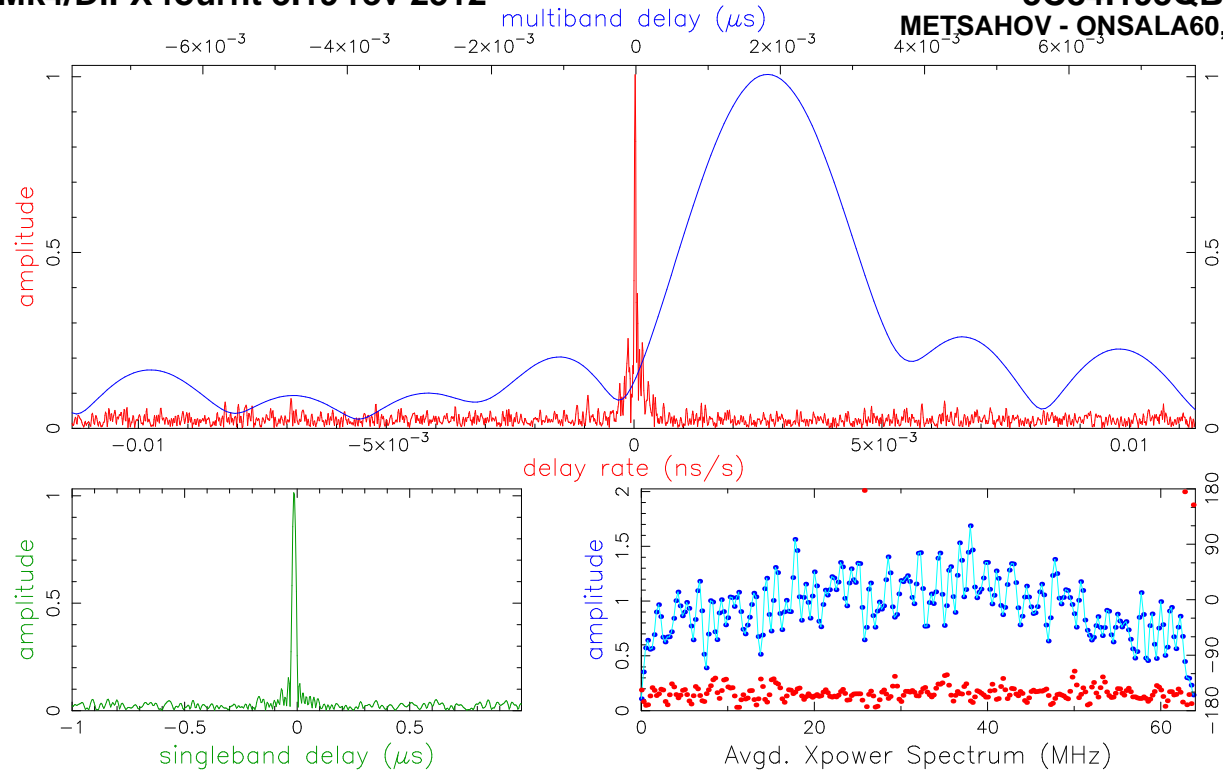


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.2	-39.2	-28.2	-35.8	-64.4	-55.1	-41.8	-24.9	Phase	-43.7
	0.6	0.8	0.8	0.7	0.9	1.1	0.8	0.8	Ampl.	0.8
	261.4	261.5	261.7	261.4	261.7	261.9	262.0	262.0	Sbd box	261.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.57709990702E+03		Apriori delay (usec)	-1.57711840609E+03		Resid mbdelay (usec)	2.87407E-03	+/-	2.6E-05	
Sband delay (usec)	-1.57710020159E+03		Apriori clock (usec)	-4.0942654E+01		Resid sbdelay (usec)	1.82045E-02	+/-	2.1E-04	
Phase delay (usec)	-1.57711840750E+03		Apriori clockrate (us/s)	-5.1200000E-07		Resid phdelay (usec)	-1.40788E-06	+/-	8.9E-08	
Delay rate (us/s)	1.85980949849E-02		Apriori rate (us/s)	1.85980680031E-02		Resid rate (us/s)	2.69819E-08	+/-	4.3E-10	
Total phase (deg)		-223.9	Apriori accel (us/s/s)	1.00852054419E-05		Resid phase (deg)	-43.7	+/-	2.8	

RMS Theor. Amplitude 0.799 +/- 0.019
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

ph/seg (deg) 29.3 6.6 Search (2048X32) 0.762
 amp/seg (%) 17.5 11.6 Interp. 0.000
 ph/frq (deg) 15.4 3.9 Inc. seg. avg. 0.897
 amp/frq (%) 17.4 6.8 Inc. frq. avg. 0.811

Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 simultaneous interpolator

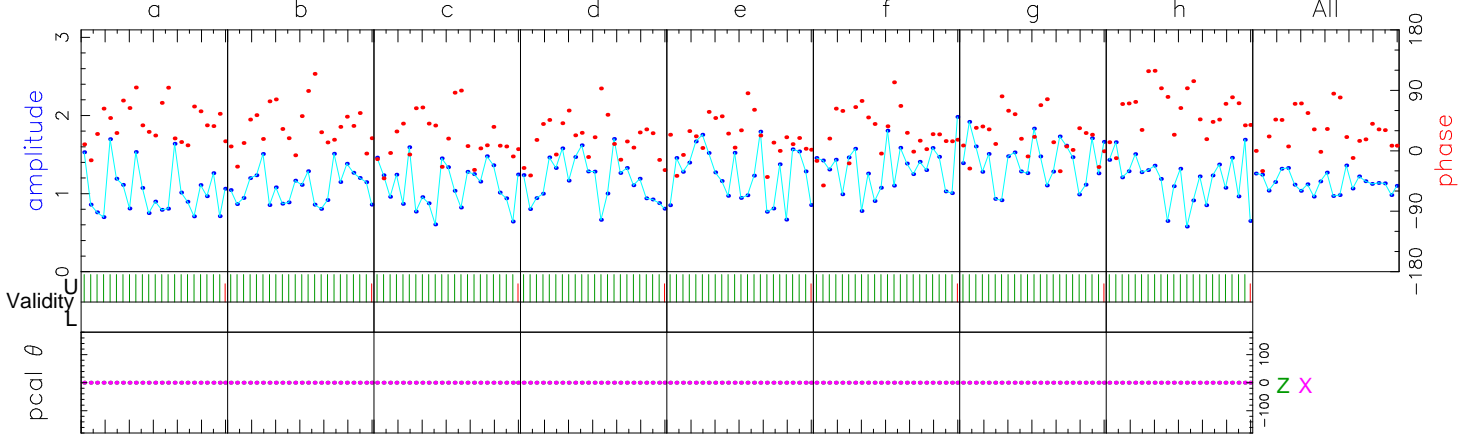


Fringe quality 6

SNR 53.5
 Int time 359.366
 Amp 1.032
 Phase 28.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.013863
 MBD 0.001781
 Fringe rate (Hz)
 0.002247
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122545
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.57713224964E+03	Apriori delay (usec)	-1.57711840609E+03	Resid mbdelay (usec)	1.78145E-03	+/-	2.0E-05
Sband delay (usec)	-1.57713226909E+03	Apriori clock (usec)	-4.0942654E+01	Resid sbdelay (usec)	-1.38630E-02	+/-	1.6E-04
Phase delay (usec)	-1.57711840518E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	9.09301E-07	+/-	6.9E-08
Delay rate (us/s)	1.85980940879E-02	Apriori rate (us/s)	1.85980680031E-02	Resid rate (us/s)	2.60848E-08	+/-	3.3E-10
Total phase (deg)	-152.1	Apriori accel (us/s/s)	1.00852054419E-05	Resid phase (deg)	28.2	+/-	2.1

ph/seg (deg)	29.1	5.1	Search (2048X32)	0.974	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	15.4	9.0	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)	16.5	3.0	Inc. seg. avg.	1.136	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	9.5	5.3	Inc. frq. avg.	1.035	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

Z: az 288.5 el 38.5 pa 39.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -130.229 873.422 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ZX..193QBF Output file: /Exps/c201d/v1/1234/No0057/ZX.W.262.193QBF