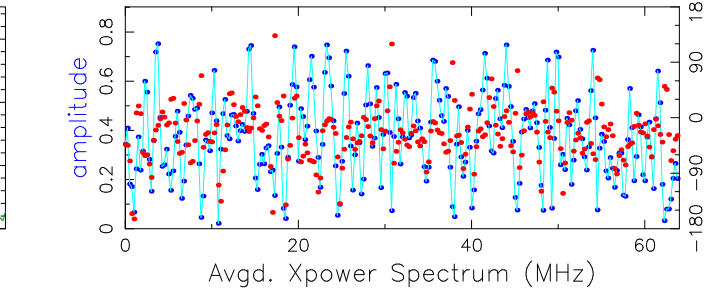
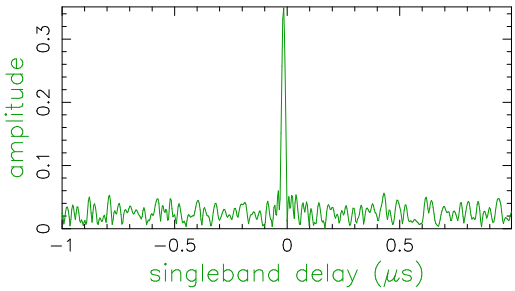


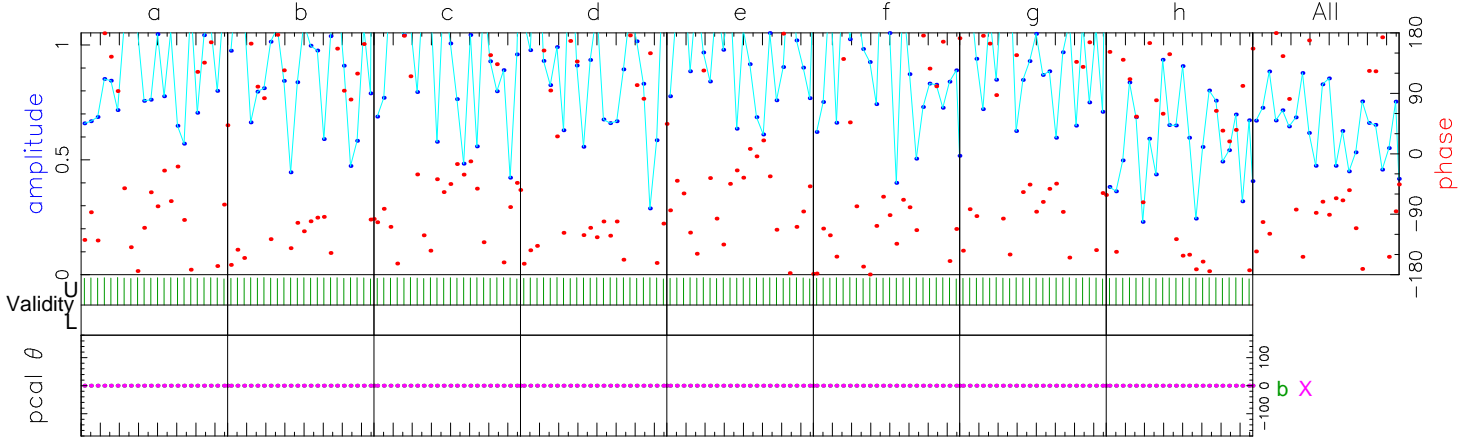
Fringe quality 8

SNR 20.0
Int time 432.366
Amp 0.351
Phase -132.3
PFD 0.0e+00
Delays (us)
SBD -0.016470
MBD -0.007119
Fringe rate (Hz)
-0.000610
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210518
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

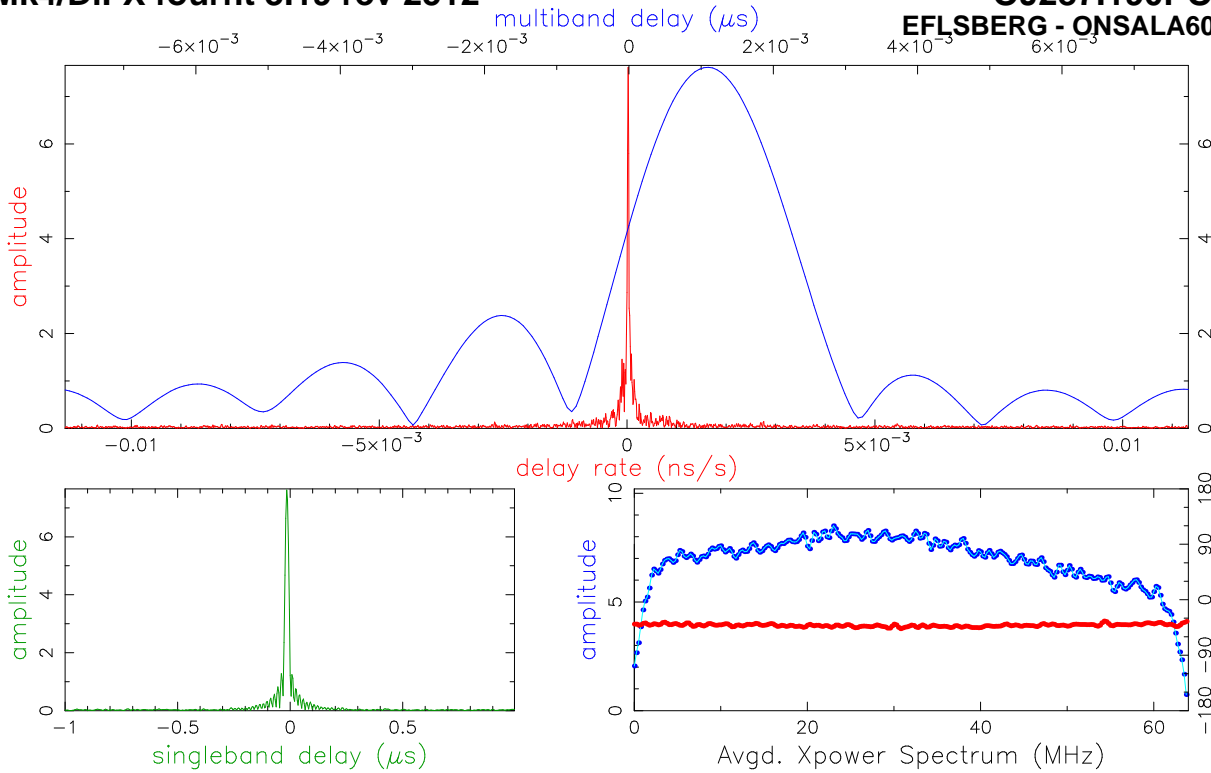


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.1	-163.7	-101.9	-159.8	-77.1	-132.9	-121.2	136.6	Phase	-132.3
	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.2	Ampl.	0.4
	252.0	252.4	252.4	251.9	252.1	252.4	252.2	250.5	Sbd box	252.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-7.44735068887E+03	Apriori delay (usec)	-7.44732794475E+03	Resid mbdelay (usec)	-7.11912E-03	+/-	5.4E-05
Sband delay (usec)	-7.44734441475E+03	Apriori clock (usec)	-4.2198265E+01	Resid sbdelay (usec)	-1.64700E-02	+/-	4.3E-04
Phase delay (usec)	-7.44732794901E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-4.26623E-06	+/-	1.9E-07
Delay rate (us/s)	1.53316303627E+00	Apriori rate (us/s)	1.53316304335E+00	Resid rate (us/s)	-7.07991E-09	+/-	7.3E-10
Total phase (deg)	-190.1	Apriori accel (us/s/s)	3.55904563591E-05	Resid phase (deg)	-132.3	+/-	5.7

ph/seg (deg)	63.9	RMS	13.8	Theor.	Amplitude	0.351 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	95.9		24.0		Search (2048X32)	0.329	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	48.6		8.1		Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	34.0		14.2		Inc. seg. avg.	0.643	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
					Inc. frq. avg.	0.425	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9284.547 255.252 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bX..190POF Output file: /Exps/c201c/v1/1234/No0032/bX.W.16.190POF

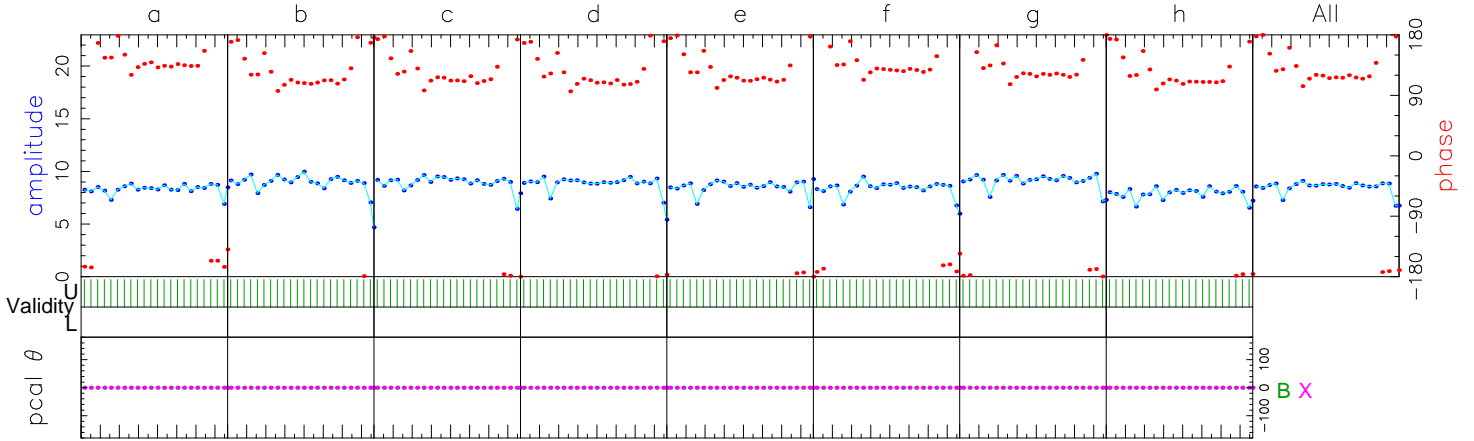


Fringe quality 7

SNR 439.0
Int time 439.695
Amp 7.657
Phase 136.2
PFD 0.0e+00
Delays (us)
SBD -0.014655
MBD 0.001115
Fringe rate (Hz) 0.002181
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210519
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



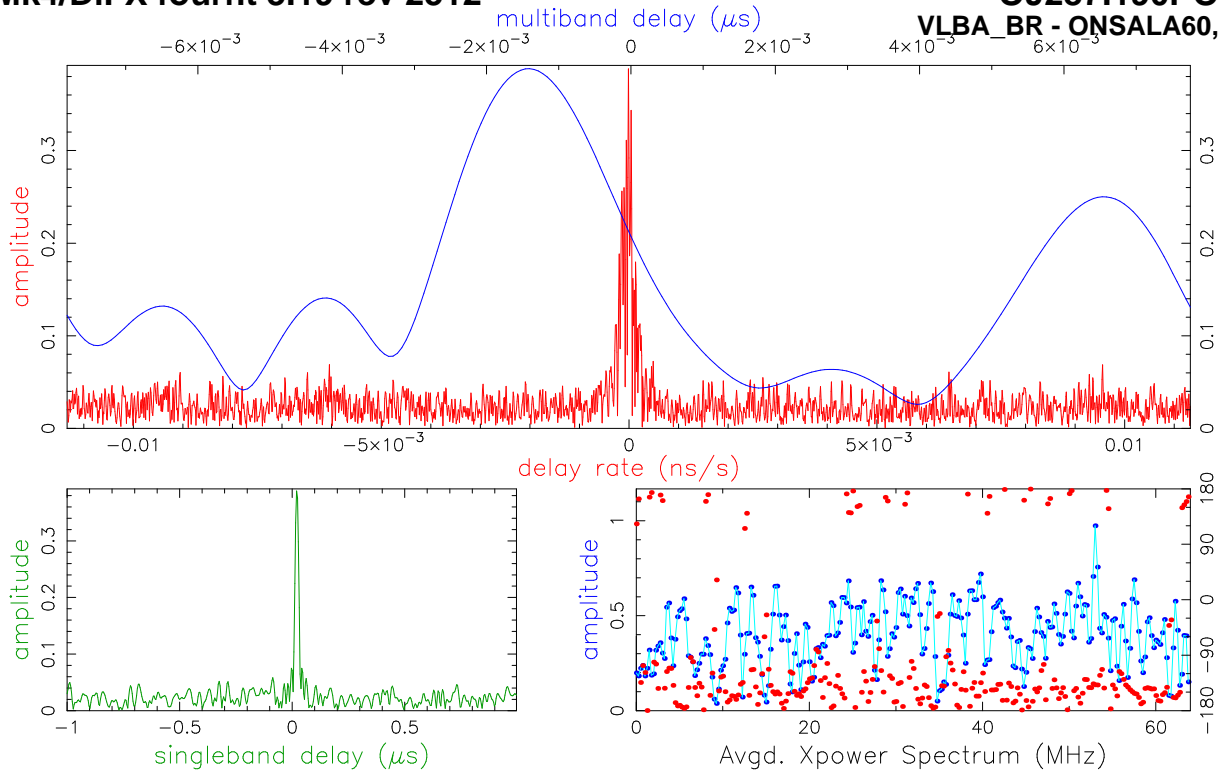
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	1.58146997886E+03	Apriori delay (usec)	1.58148448846E+03	Resid mbdelay (usec)	1.11540E-03	+/-	2.5E-06
Sband delay (usec)	1.58146983346E+03	Apriori clock (usec)	-2.7747168E+01	Resid sbdelay (usec)	-1.46550E-02	+/-	2.0E-05
Phase delay (usec)	1.58148449285E+03	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	4.39199E-06	+/-	8.4E-09
Delay rate (us/s)	-4.07606626956E-02	Apriori rate (us/s)	-4.07606880166E-02	Resid rate (us/s)	2.53210E-08	+/-	3.3E-11
Total phase (deg)		Apriori accel (us/s/s)	-1.12875089231E-05	Resid phase (deg)	136.2	+/-	0.3

ph/seg (deg)	27.3	0.6	Search (2048X32)	7.412	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	13.5	1.1	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)	10.0	0.4	Inc. seg. avg.	8.544	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	4.9	0.6	Inc. frq. avg.	7.702	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

B: az 239.9 el 46.7 pa 35.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BX..190POF Output file: /Exps/c201c/v1/1234/No0032/BX.W.19.190POF

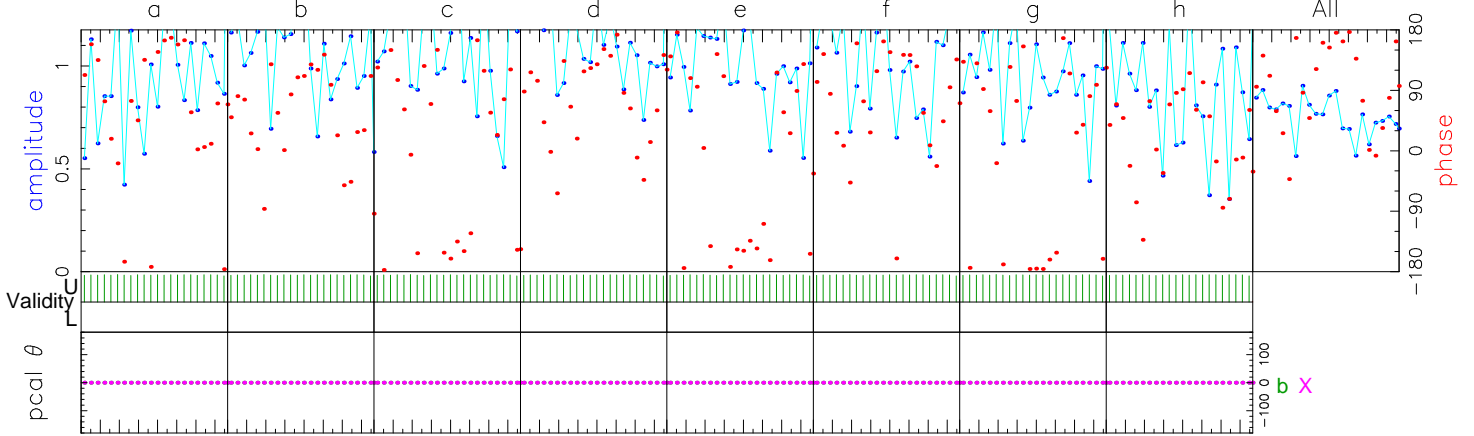


Fringe quality 8

SNR 22.3
Int time 432.366
Amp 0.392
Phase 104.7
PFD 0.0e+00
Delays (us)
SBD 0.020791
MBD -0.001383
Fringe rate (Hz)
-0.000529
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210523
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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	
Group delay (usec)(sbd)	-7.44731370318E+03								Resid mbdelay (usec)	-1.38343E-03 +/- 4.9E-05
Sband delay (usec)	-7.44730715350E+03								Resid sbdelay (usec)	2.07912E-02 +/- 3.9E-04
Phase delay (usec)	-7.44732794137E+03								Resid phdelay (usec)	3.37724E-06 +/- 1.7E-07
Delay rate (us/s)	1.53316303721E+00								Resid rate (us/s)	-6.14390E-09 +/- 6.5E-10
Total phase (deg)			46.9						Resid phase (deg)	104.7 +/- 5.1

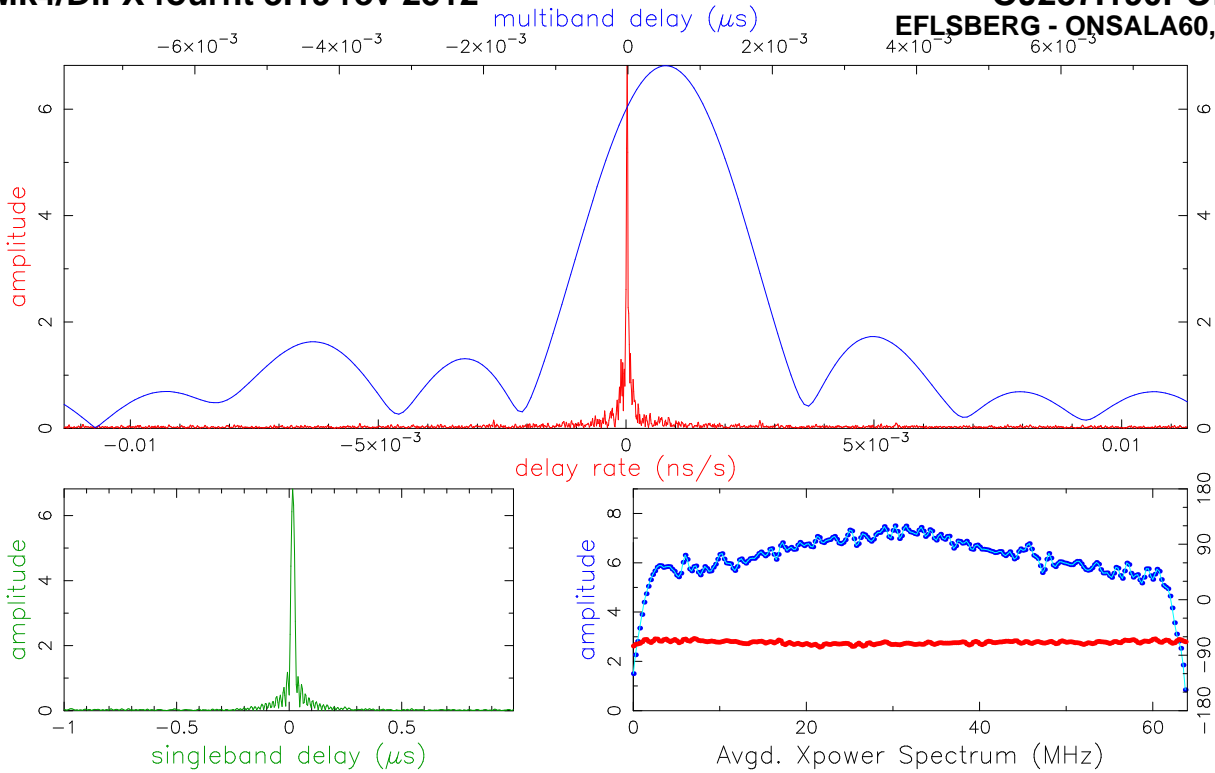
ph/seg (deg) 64.9 12.3
amp/seg (%) 97.1 21.5
ph/frq (deg) 46.7 7.3
amp/frq (%) 33.2 12.7

RMS Theor. Amplitude 0.392 +/- 0.018
Search (2048X32) 0.364
Interp. 0.000
Inc. seg. avg. 0.744
Inc. frq. avg. 0.491

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

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

b: az 78.2 el 16.5 pa -44.1 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9284.547 255.252 simultaneous interpolator

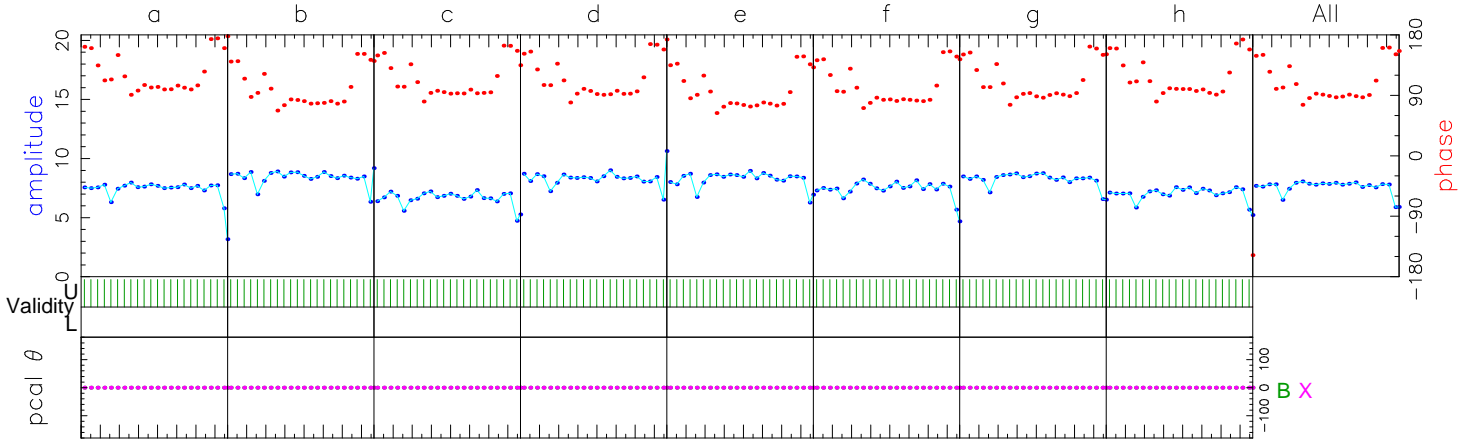


Fringe quality 7

SNR 391.3
Int time 439.695
Amp 6.824
Phase 108.3
PFD 0.0e+00
Delays (us)
SBD 0.015978
MBD 0.000536
Fringe rate (Hz) 0.002179
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210524
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	120.9	99.0	112.6	113.2	94.9	102.4	109.8	116.7	Phase	108.3
	6.7	7.5	6.0	7.4	7.4	6.7	7.4	6.2	Ampl.	6.9
	260.5	260.9	261.5	260.9	261.0	261.5	261.3	260.6	Sbd box	261.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	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)	1.58150064979E+03		Apriori delay (usec)		1.58148448846E+03		Resid mbdelay (usec)		5.36334E-04	+/- 2.8E-06
Sband delay (usec)	1.58150046646E+03		Apriori clock (usec)		-2.7747168E+01		Resid sbdelay (usec)		1.59780E-02	+/- 2.2E-05
Phase delay (usec)	1.58148449195E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		3.49367E-06	+/- 9.4E-09
Delay rate (us/s)	-4.07606627260E-02		Apriori rate (us/s)		-4.07606880166E-02		Resid rate (us/s)		2.52905E-08	+/- 3.7E-11
Total phase (deg)	49.3		Apriori accel (us/s/s)		-1.12875089231E-05		Resid phase (deg)		108.3	+/- 0.3

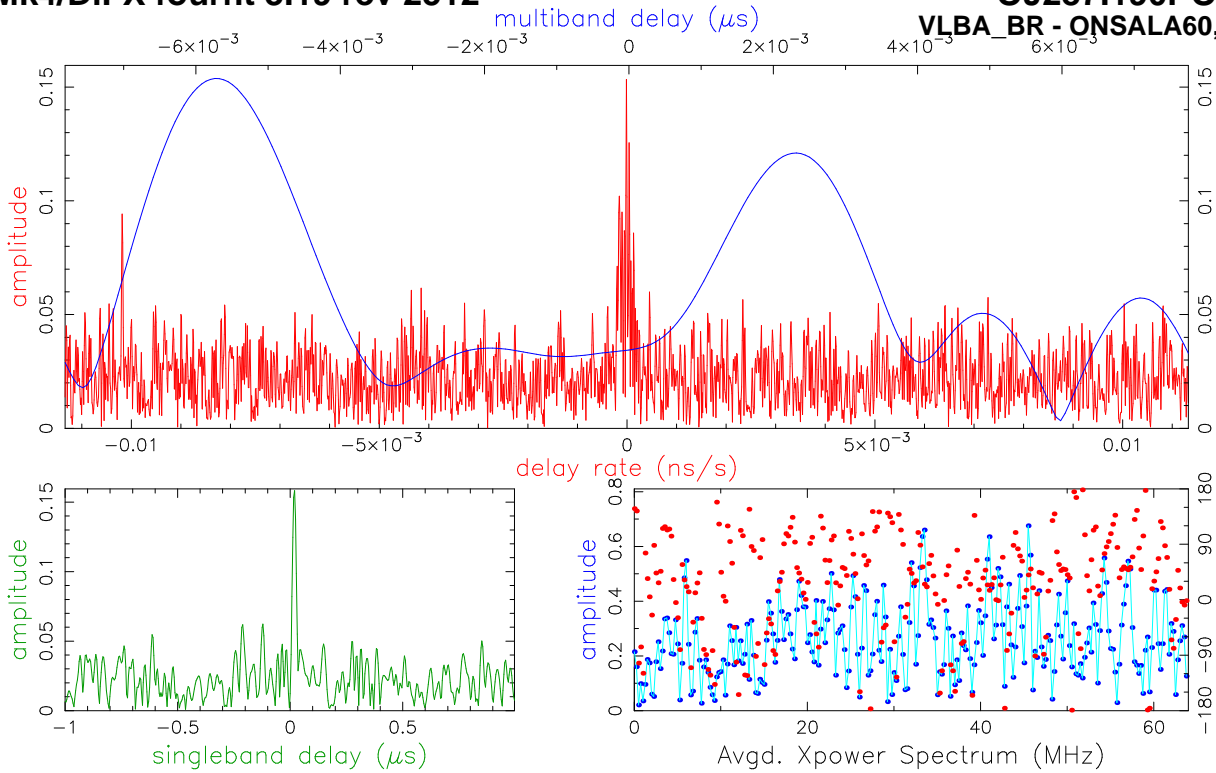
ph/seg (deg) 27.4 0.7
amp/seg (%) 14.1 1.2
ph/frq (deg) 9.8 0.4
amp/frq (%) 8.1 0.7

RMS Theor. Amplitude 6.824 +/- 0.017
Search (2048X32) 6.670
Interp. 0.000
Inc. seg. avg. 7.653
Inc. frq. avg. 6.895

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

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

B: az 239.9 el 46.7 pa 35.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator

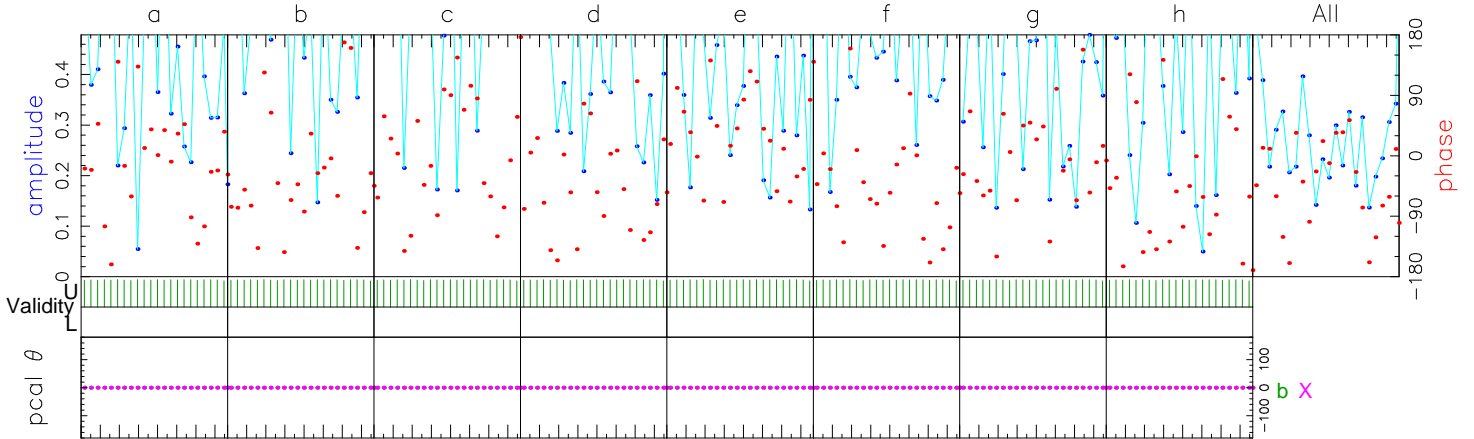


Fringe quality 9

SNR 9.1
Int time 432.366
Amp 0.160
Phase -31.1
PFD 4.5e-11
Delays (us)
SBD 0.018300
MBD -0.005633
Fringe rate (Hz)
-0.000523
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

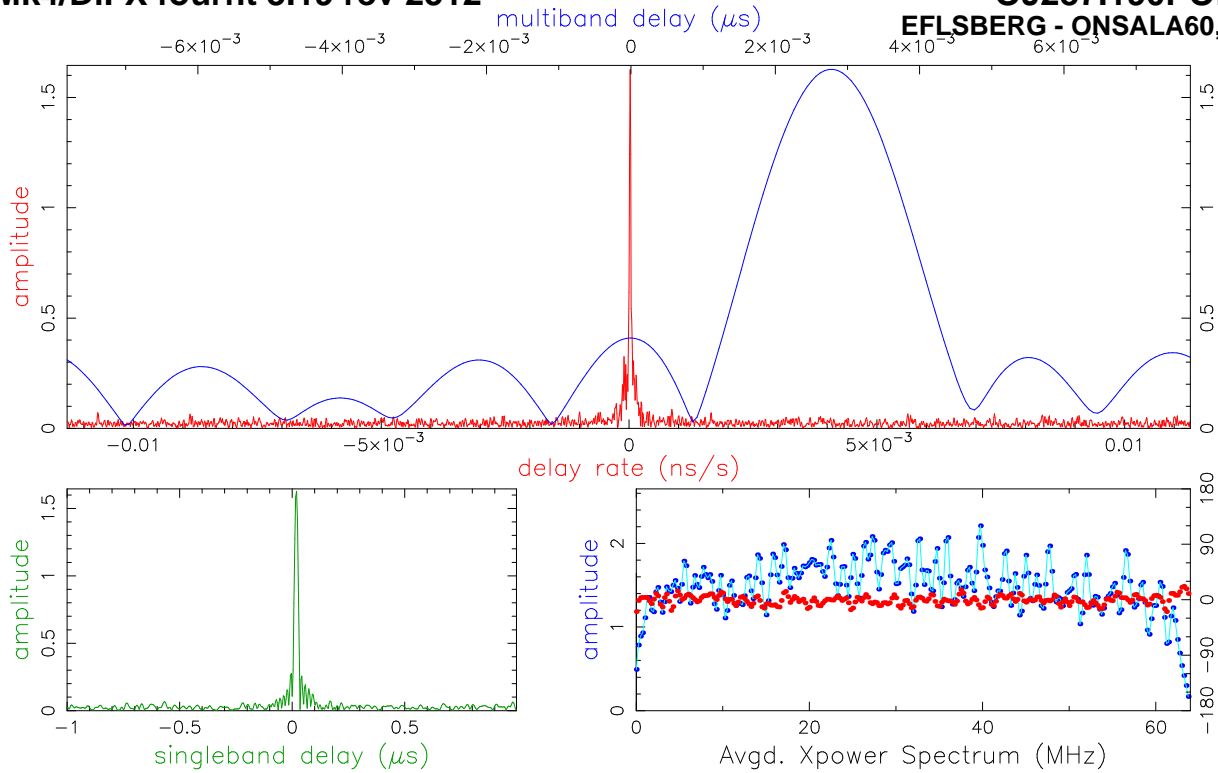
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210528
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-15.7	-74.1	11.2	-49.8	26.9	-60.2	5.6	-108.9	Phase	-31.1
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	259.9	261.5	261.4	260.1	260.4	261.2	261.0	190.9	Sbd box	261.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-7.44730232755E+03		Apriori delay (usec)		-7.44732794475E+03		Resid mbdelay (usec)		-5.63281E-03	+/- 1.2E-04
Sband delay (usec)	-7.44730964450E+03		Apriori clock (usec)		-4.2198265E+01		Resid sbdelay (usec)		1.83003E-02	+/- 9.5E-04
Phase delay (usec)	-7.44732794575E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-1.00358E-06	+/- 4.1E-07
Delay rate (us/s)	1.53316303728E+00		Apriori rate (us/s)		1.53316304335E+00		Resid rate (us/s)		-6.07163E-09	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.55904563591E-05		Resid phase (deg)		-31.1	+/- 12.6

ph/seg (deg) 63.2 30.3 Search (2048X32) 0.143 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 89.2 52.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.4 17.9 Inc. seg. avg. 0.238 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.6 31.2 Inc. frq. avg. 0.195 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 78.2 el 16.5 pa -44.1 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9284.547 255.252 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bX..190POF Output file: /Exps/c201c/v1/1234/No0032/bX.W.60.190POF

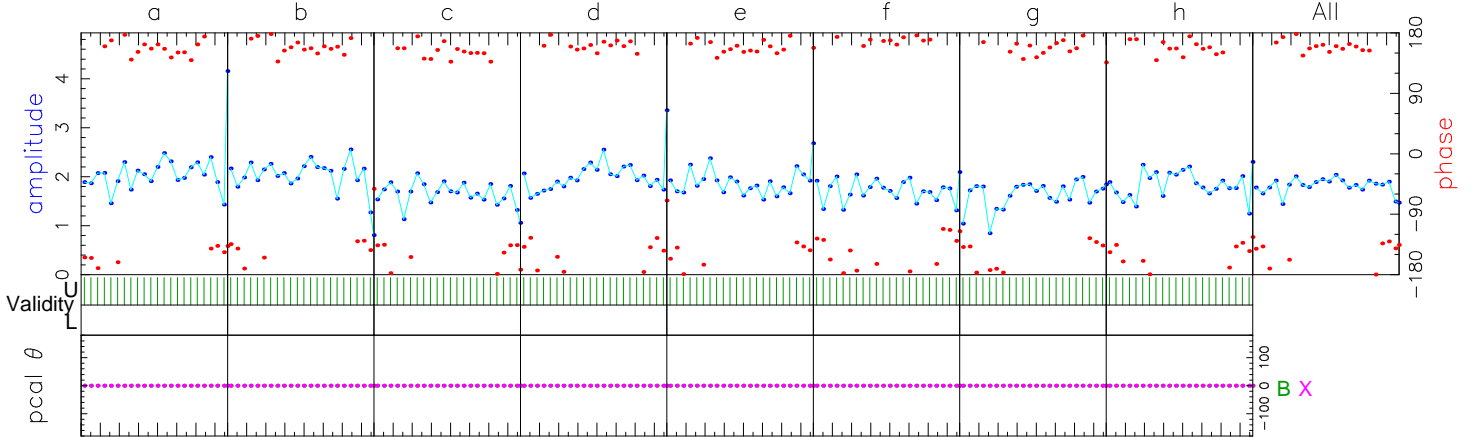


Fringe quality 7

SNR 94.4
Int time 439.695
Amp 1.646
Phase 177.1
PFD 0.0e+00
Delays (us)
SBD 0.018125
MBD 0.002730
Fringe rate (Hz) 0.002179
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210528
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

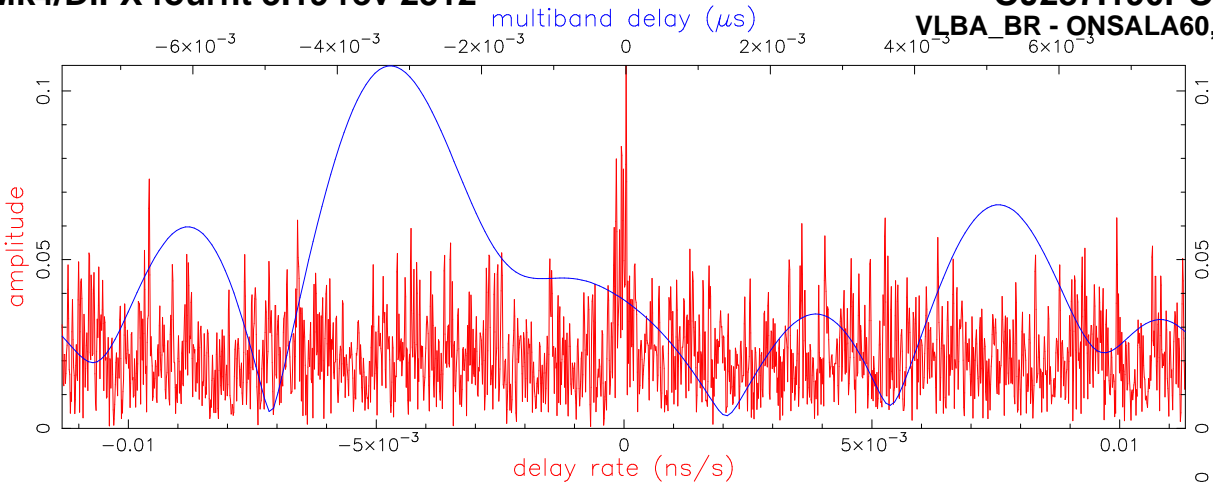


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	172.0	175.9	171.5	178.7	174.8	-168.2	175.8	177.1	Phase	177.1
	1.8	1.8	1.4	1.8	1.7	1.5	1.4	1.6	Ampl.	1.6
	261.6	261.4	261.7	261.8	261.6	261.8	261.4	261.6	Sbd box	261.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	
									Tracks	
Group delay (usec)(sbd)	1.58150284354E+03		Apriori delay (usec)		1.58148448846E+03		Resid mbdelay (usec)		2.73008E-03	+/- 1.2E-05
Sband delay (usec)	1.58150261296E+03		Apriori clock (usec)		-2.7747168E+01		Resid sbdelay (usec)		1.81245E-02	+/- 9.1E-05
Phase delay (usec)	1.58148449417E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		5.70991E-06	+/- 3.9E-08
Delay rate (us/s)	-4.07606627183E-02		Apriori rate (us/s)		-4.07606880166E-02		Resid rate (us/s)		2.52983E-08	+/- 1.5E-10
Total phase (deg)	118.0		Apriori accel (us/s/s)		-1.12875089231E-05		Resid phase (deg)		177.1	+/- 1.2

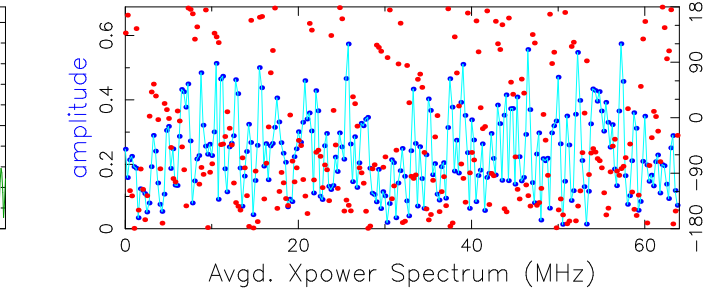
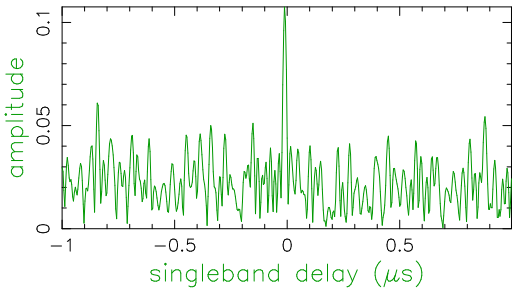
	RMS	Theor.	Amplitude	1.646 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	27.4	2.9	Search (2048X32)	1.575	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	13.8	5.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	6.9	1.7	Inc. seg. avg.	1.821	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	9.1	3.0	Inc. frq. avg.	1.634	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 239.9 el 46.7 pa 35.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BX..190POF Output file: /Exps/c201c/v1/1234/No0032/BX.W.61.190POF

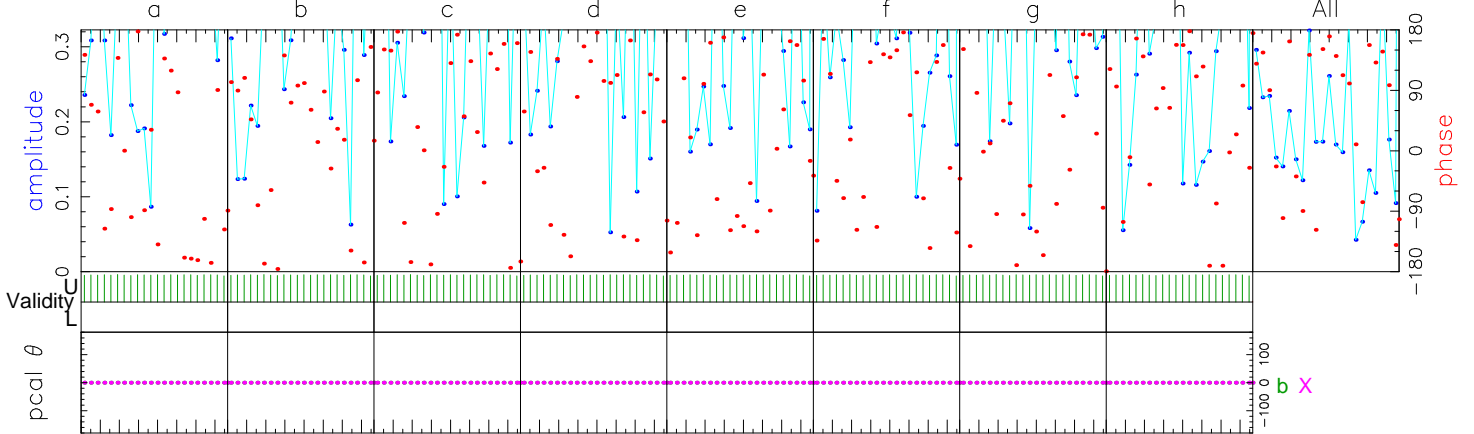


Fringe quality 0
SNR 6.1
Int time 432.366
Amp 0.108
Phase 144.4
PFD 2.2e-01
Delays (us)
SBD -0.011222
MBD -0.003248
Fringe rate (Hz) 0.004202
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210532
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"



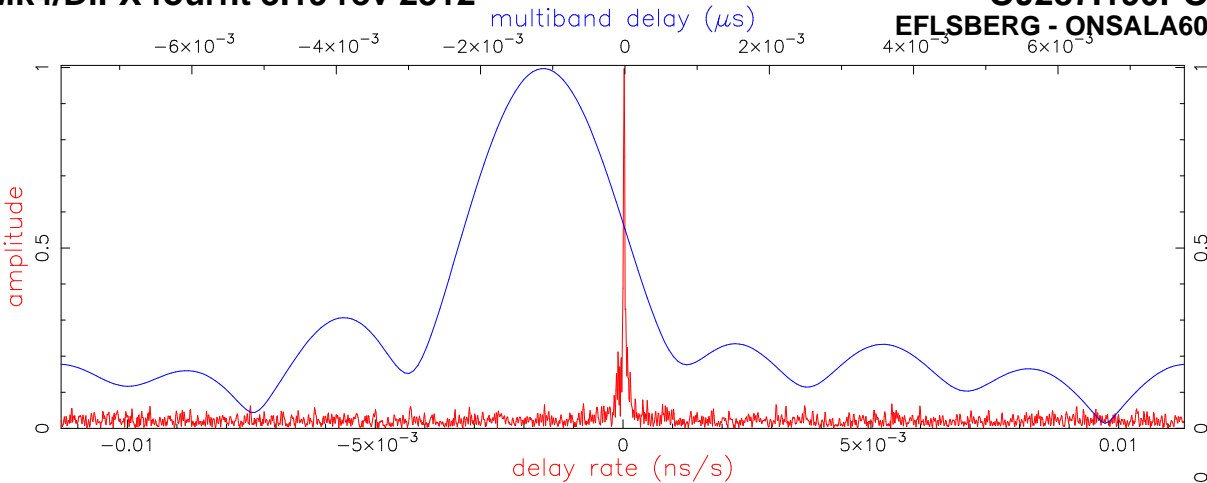
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



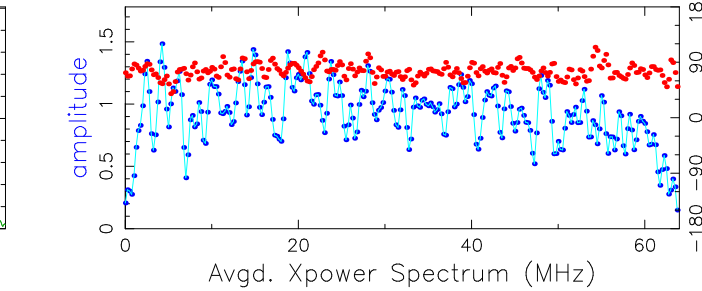
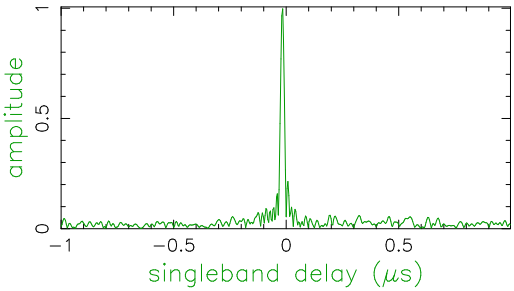
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.44734681780E+03				-7.44732794475E+03					
Sband delay (usec)	-7.44733916650E+03				-4.2198265E+01					
Phase delay (usec)	-7.44732794009E+03				-5.6999999E-07					
Delay rate (us/s)	1.53316309213E+00				1.53316304335E+00					
Total phase (deg)			86.6		3.55904563591E-05					
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)									144.4	+/- 18.7
Pcal mode:	MANUAL	MANUAL			MANUAL					
Pcal rate:	0.000E+00	0.000E+00			0.000E+00					
PC period (AP's)	5	5			5					
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 83.0 44.9 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 115.1 78.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 47.4 26.5 Inc. seg. avg. 0.145 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.9 46.2 Inc. frq. avg. 0.121 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 78.2 el 16.5 pa -44.1 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9284.547 255.252 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bX..190POF Output file: /Exps/c201c/v1/1234/No0032/bX.W.75.190POF



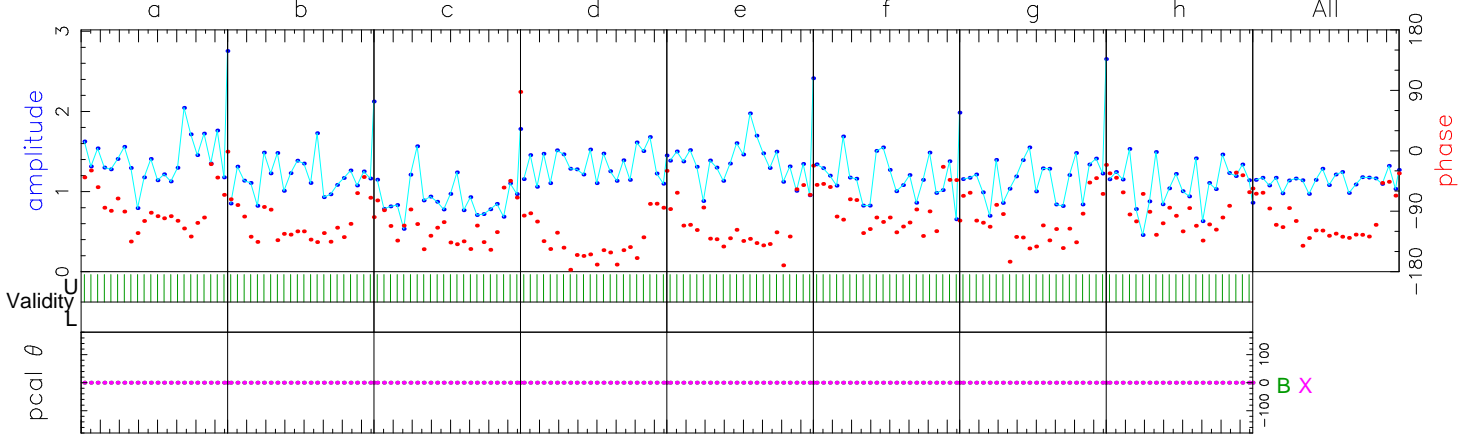
Fringe quality 6

SNR 57.7
Int time 439.695
Amp 1.006
Phase -104.7
PFD 0.0e+00
Delays (us)
SBD -0.016871
MBD -0.001165
Fringe rate (Hz)
0.002183
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210532
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

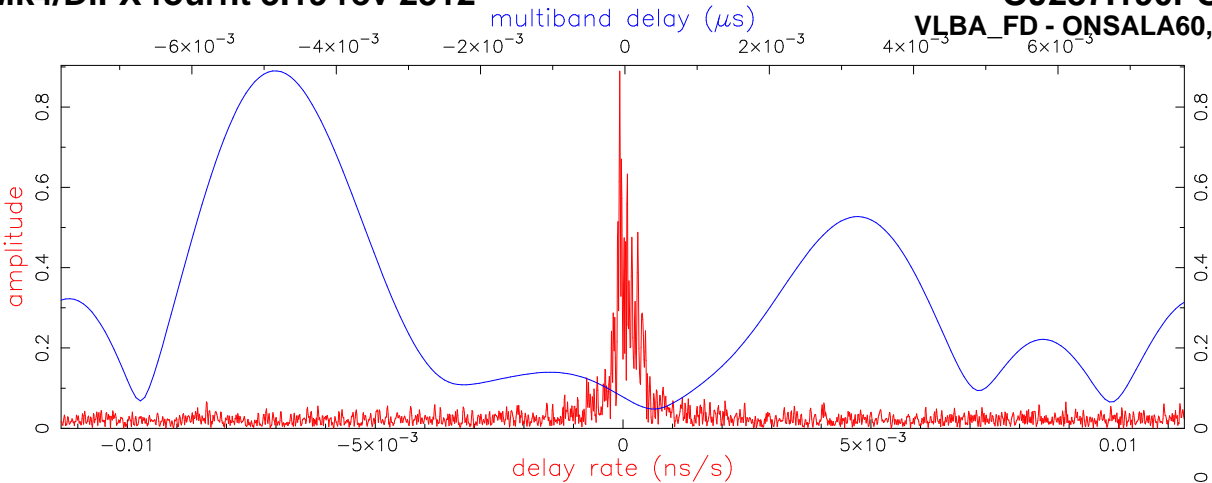


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.8	-108.1	-111.3	-134.5	-116.3	-87.8	-106.1	-85.9	Phase	-104.7
	1.2	1.1	0.8	1.2	1.2	1.0	1.0	1.0	Ampl.	1.0
	252.3	252.3	252.9	252.7	253.0	252.9	252.7	252.5	Sbd box	252.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	PC amp	
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) 1.58146769851E+03 Apriori delay (usec) 1.58148448846E+03 Resid mbdelay (usec) -1.16495E-03 +/- 1.9E-05
 Sband delay (usec) 1.58146761796E+03 Apriori clock (usec) -2.7747168E+01 Resid sbdelay (usec) -1.68705E-02 +/- 1.5E-04
 Phase delay (usec) 1.58148448508E+03 Apriori clockrate (us/s) -7.2800002E-07 Resid phdelay (usec) -3.37582E-06 +/- 6.4E-08
 Delay rate (us/s) -4.07606626708E-02 Apriori rate (us/s) -4.07606880166E-02 Resid rate (us/s) 2.53458E-08 +/- 2.5E-10
 Total phase (deg) 196.2 Apriori accel (us/s/s) -1.12875089231E-05 Resid phase (deg) -104.7 +/- 2.0

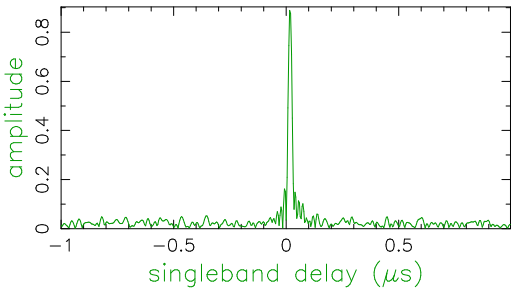
RMS Theor. Amplitude 1.006 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 28.7 4.8 Search (2048X32) 0.964 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 15.6 8.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 18.6 2.8 Inc. seg. avg. 1.131 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 13.2 4.9 Inc. frq. avg. 1.039 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 239.9 el 46.7 pa 35.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BX..190POF Output file: /Exps/c201c/v1/1234/No0032/BX.W.77.190POF

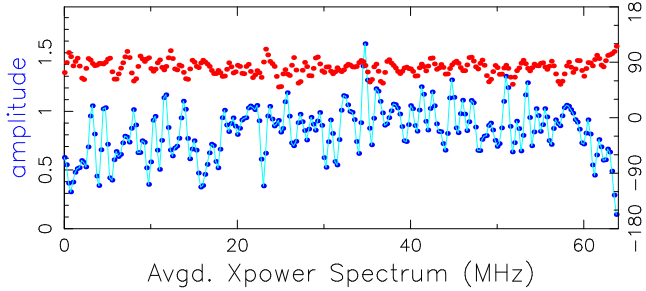


Fringe quality 2

SNR 51.5
 Int time 435.123
 Amp 0.904
 Phase -24.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.017261
 MBD -0.004792
 Fringe rate (Hz)
 -0.005315
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

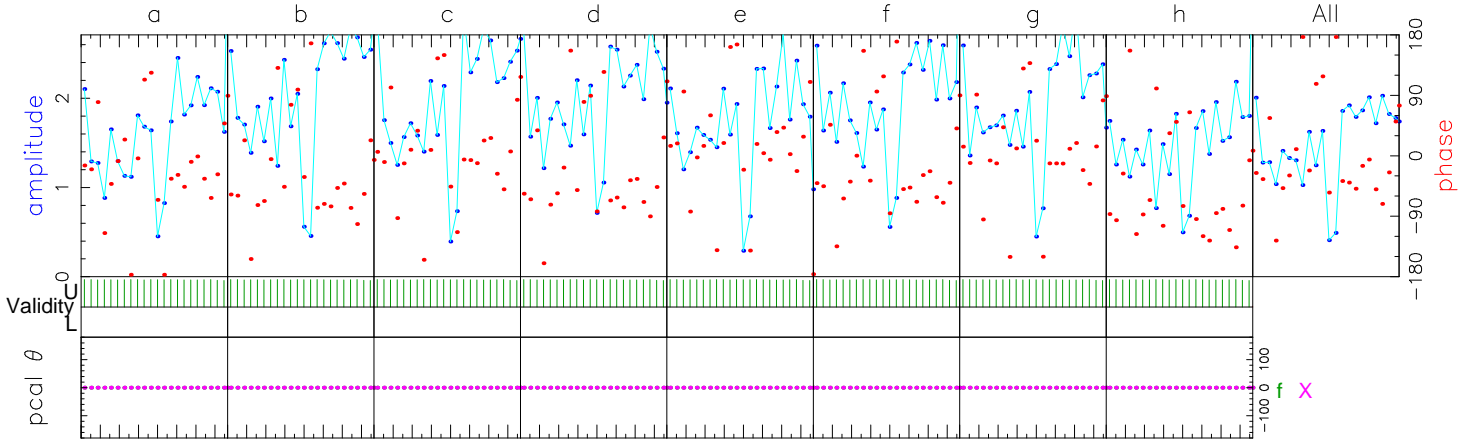


delay rate (ns/s)



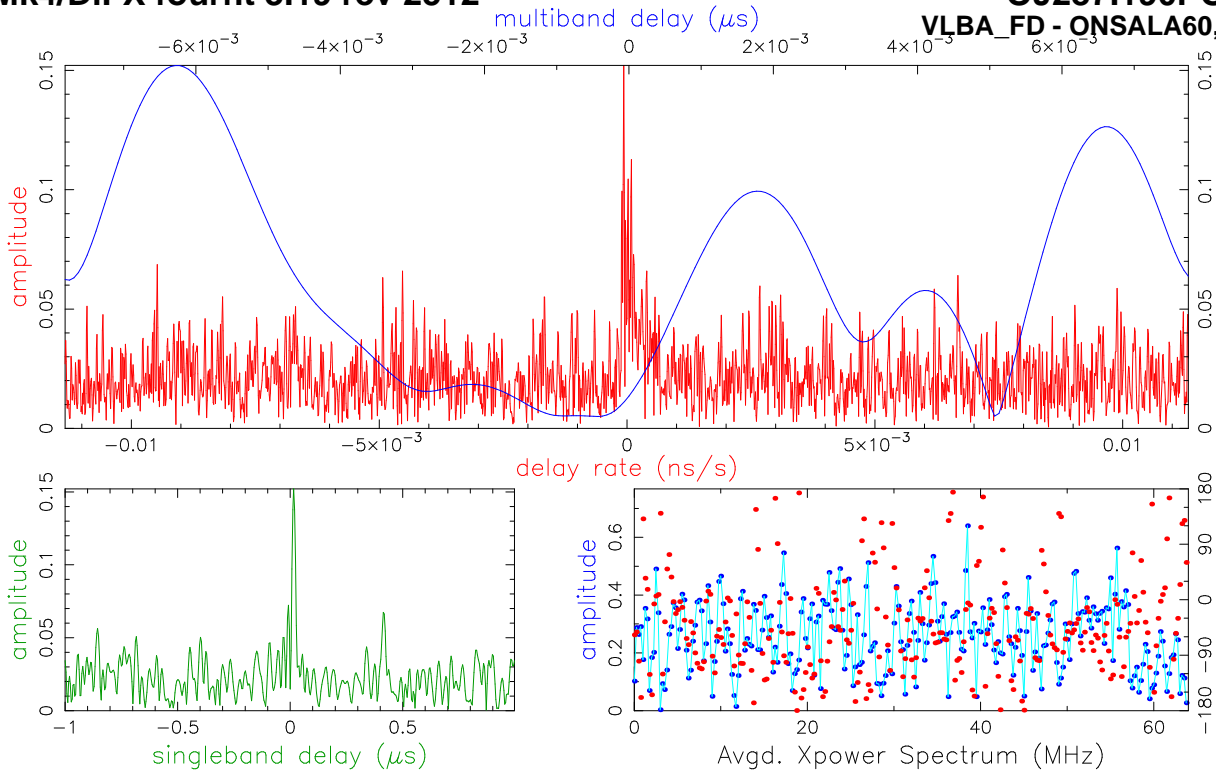
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210542
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-15.7	-53.5	7.3	-48.5	22.3	-38.2	8.7	-86.2	Phase	-24.4
	0.9	1.2	1.1	1.1	1.0	1.1	1.1	0.8	Ampl.	1.1
	261.3	261.1	261.3	261.2	260.6	261.1	260.8	259.9	Sbd box	261.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	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	
									Tracks	
Group delay (usec)(sbd)	-4.27751410534E+03		Apriori delay (usec)		-4.27752493790E+03		Resid mbdelay (usec)		-4.79244E-03	+/- 2.1E-05
Sband delay (usec)	-4.27750767690E+03		Apriori clock (usec)		-3.6879646E+01		Resid sbdelay (usec)		1.72610E-02	+/- 1.7E-04
Phase delay (usec)	-4.27752493869E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-7.85476E-07	+/- 7.2E-08
Delay rate (us/s)	1.74387799441E+00		Apriori rate (us/s)		1.74387805611E+00		Resid rate (us/s)		-6.17069E-08	+/- 2.8E-10
Total phase (deg)			Apriori accel (us/s/s)		9.68188570369E-06		Resid phase (deg)		-24.4	+/- 2.2

ph/seg (deg) 73.3 5.3 Search (2048X32) 0.832 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.1 9.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.4 3.1 Inc. seg. avg. 1.487 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.6 5.5 Inc. frq. avg. 1.063 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 80.8 el 25.4 pa -64.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.109.190POF

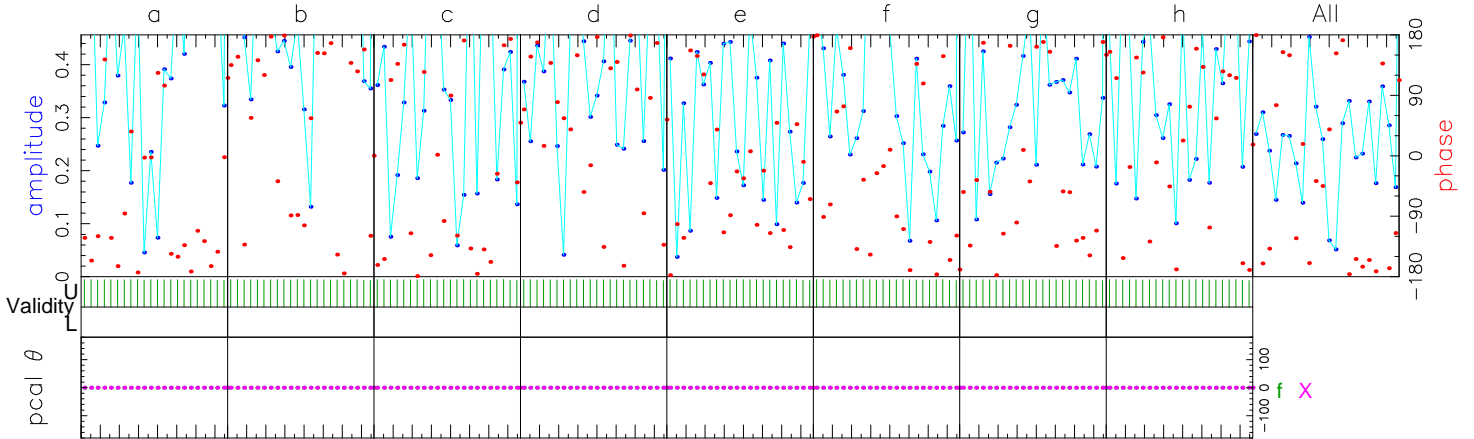


Fringe quality 9

SNR 8.7
Int time 435.123
Amp 0.152
Phase -167.4
PFD 1.5e-09
Delays (us)
SBD 0.015569
MBD -0.006267
Fringe rate (Hz)
-0.005428
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210547
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



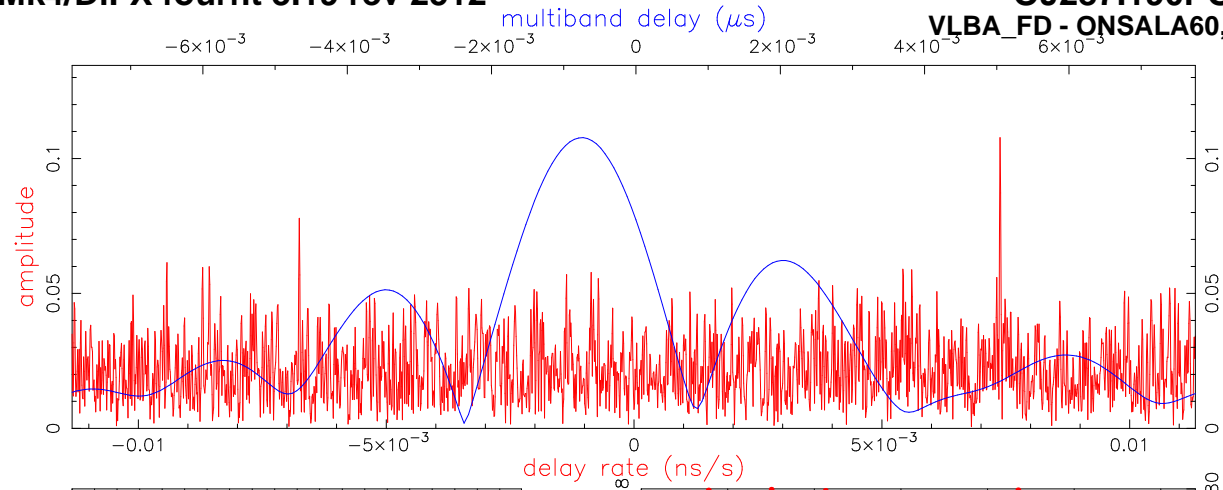
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-143.5	163.8	-156.8	135.4	-92.6	-129.7	-130.2	139.7	Phase	-167.4
	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.1	Ampl.	0.2
	261.3	260.5	260.8	165.3	85.9	84.5	61.6	258.4	Sbd box	261.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	

Group delay (usec)(sbd)	-4.27751557990E+03	Apriori delay (usec)	-4.27752493790E+03	Resid mbdelay (usec)	-6.26700E-03	+/-	1.3E-04
Sband delay (usec)	-4.27750936940E+03	Apriori clock (usec)	-3.6879646E+01	Resid sbdelay (usec)	1.55685E-02	+/-	9.9E-04
Phase delay (usec)	-4.27752494330E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	-5.39811E-06	+/-	4.3E-07
Delay rate (us/s)	1.74387799310E+00	Apriori rate (us/s)	1.74387805611E+00	Resid rate (us/s)	-6.30127E-08	+/-	1.7E-09
Total phase (deg)	-221.7	Apriori accel (us/s/s)	9.68188570369E-06	Resid phase (deg)	-167.4	+/-	13.2

ph/seg (deg)	RMS 72.3	Theor. 31.7	Amplitude Search (2048X32)	0.152 +/- 0.018	0.146	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	87.4	55.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	51.6	18.7	Inc. seg. avg.	0.213	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	65.9	32.6	Inc. frq. avg.	0.186				ion window (TEC)	0.00	0.00

f: az 80.8 el 25.4 pa -64.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator

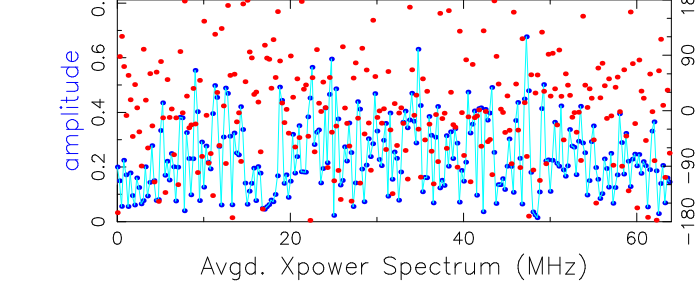
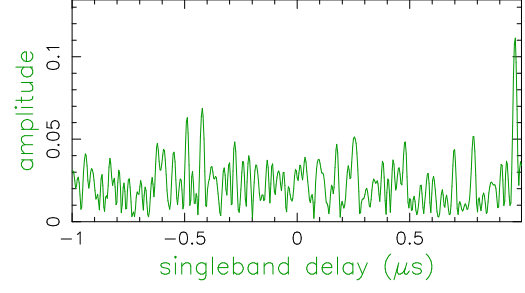
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.131.190POF



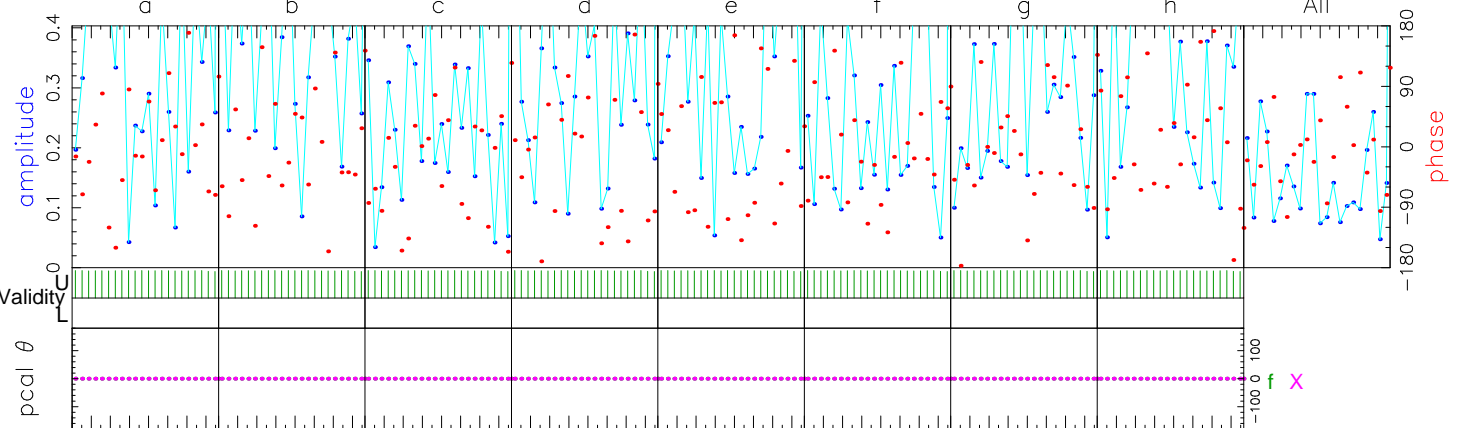
Fringe quality 0

SNR 6.4
 Int time 435.123
 Amp 0.134
 Phase -13.4
 PFD 4.2e-02
 Delays (us)
 SBD 0.967561
 MBD -0.000735
 Fringe rate (Hz) 0.636716
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210551
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

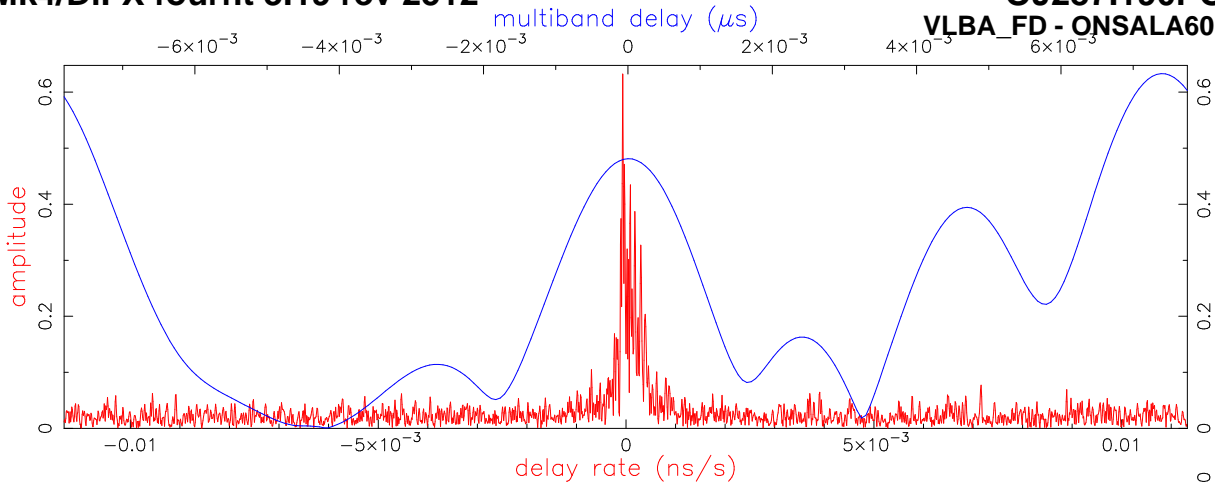


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



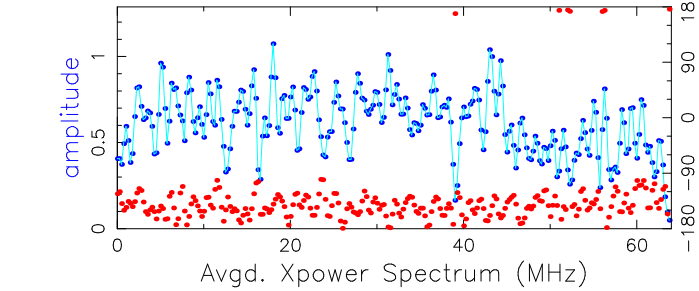
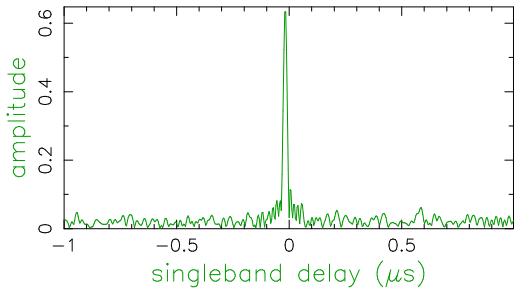
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-12.3	-19.0	-16.2	32.6	-81.4	-21.0	-13.5	-13.3	Phase	-13.4
	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.1	Ampl.	0.1
	505.2	495.6	39.3	353.8	372.3	506.1	180.9	42.0	Sbd box	504.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	
									Tracks	
Group delay (usec)(sbd)	-4.27655692249E+03		Apriori delay (usec)		-4.27752493790E+03		Resid mbdelay (usec)		-7.34587E-04	+/- 1.7E-04
Sband delay (usec)	-4.27655737740E+03		Apriori clock (usec)		-3.6879646E+01		Resid sbdelay (usec)		9.67561E-01	+/- 1.3E-03
Phase delay (usec)	-4.27752493833E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-4.31670E-07	+/- 5.8E-07
Delay rate (us/s)	1.74388544776E+00		Apriori rate (us/s)		1.74387805611E+00		Resid rate (us/s)		7.39164E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		9.68188570369E-06		Resid phase (deg)		-13.4	+/- 17.9

ph/seg (deg) 58.3 42.9 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 81.7 74.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.8 25.3 Inc. seg. avg. 0.142 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.8 44.2 Inc. frq. avg. 0.123 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 80.8 el 25.4 pa -64.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.152.190POF



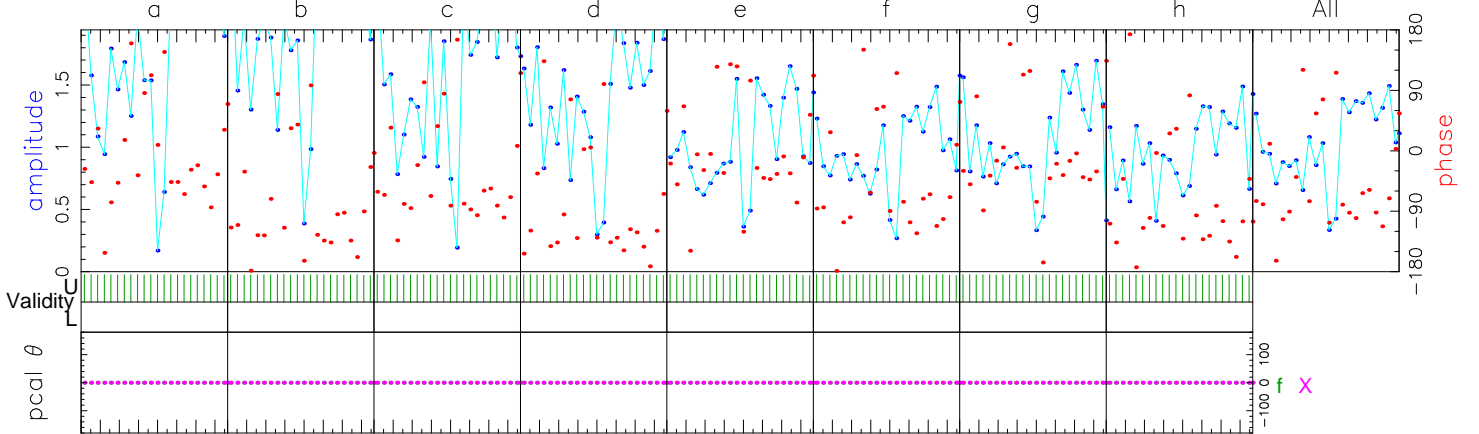
Fringe quality 3

SNR 37.0
Int time 435.123
Amp 0.648
Phase -73.6
PFD 0.0e+00
Delays (us)
SBD -0.017529
MBD 0.007457
Fringe rate (Hz)
-0.005344
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



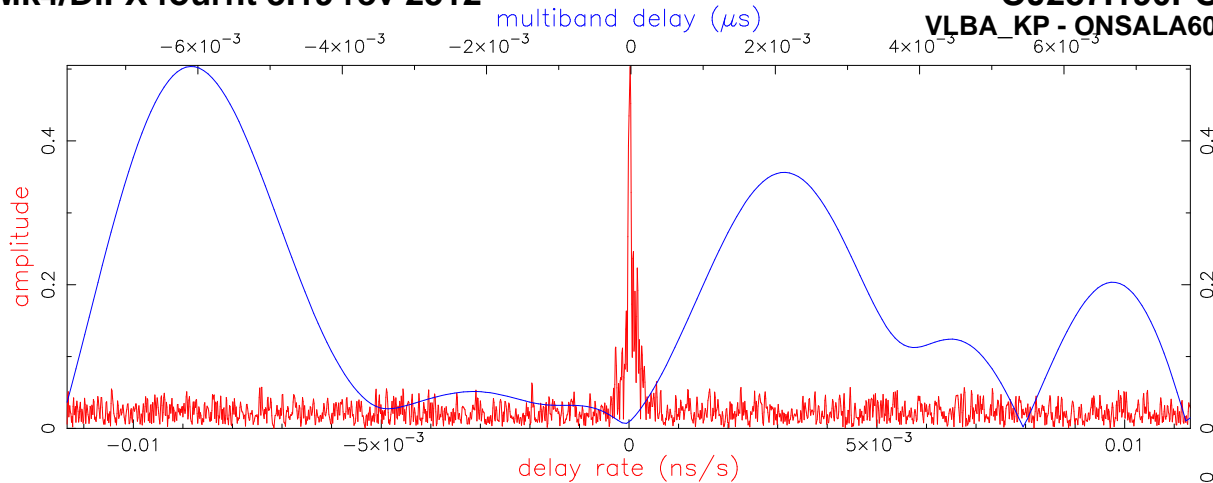
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210537
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



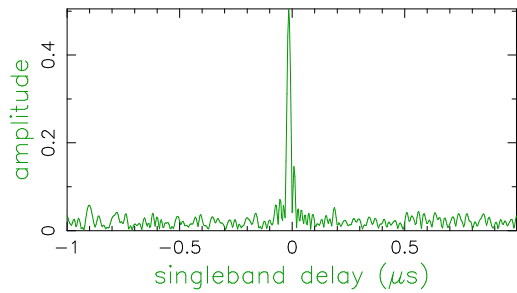
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-35.7	-110.0	-62.9	-121.9	-19.1	-82.9	-18.8	-112.1	Phase	-73.6
	1.1	1.1	1.1	0.9	0.5	0.5	0.6	0.6	Ampl.	0.8
	252.0	251.7	252.6	252.1	252.6	252.2	252.2	250.9	Sbd box	252.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-4.27754873050E+03		Apriori delay (usec)		-4.27752493790E+03		Resid mbdelay (usec)		7.45740E-03	+/- 2.9E-05
Sband delay (usec)	-4.27754246690E+03		Apriori clock (usec)		-3.6879646E+01		Resid sbdelay (usec)		-1.75290E-02	+/- 2.3E-04
Phase delay (usec)	-4.27752494028E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-2.37428E-06	+/- 1.0E-07
Delay rate (us/s)	1.74387799407E+00		Apriori rate (us/s)		1.74387805611E+00		Resid rate (us/s)		-6.20392E-08	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		9.68188570369E-06		Resid phase (deg)		-73.6	+/- 3.1

ph/seg (deg) 75.1 7.4 Search (2048X32) 0.594 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.1 13.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 46.1 4.4 Inc. seg. avg. 1.027 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.6 7.7 Inc. frq. avg. 0.804 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 80.8 el 25.4 pa -64.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10608.983 -2436.193 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fX..190POF Output file: /Exps/c201c/v1/1234/No0032/fX.W.91.190POF

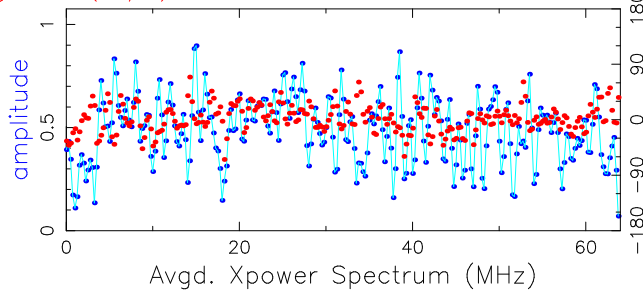


Fringe quality 4

SNR 28.7
Int time 431.373
Amp 0.505
Phase -100.0
PFD 0.0e+00
Delays (us)
SBD -0.014910
MBD -0.006071
Fringe rate (Hz)
0.002060
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

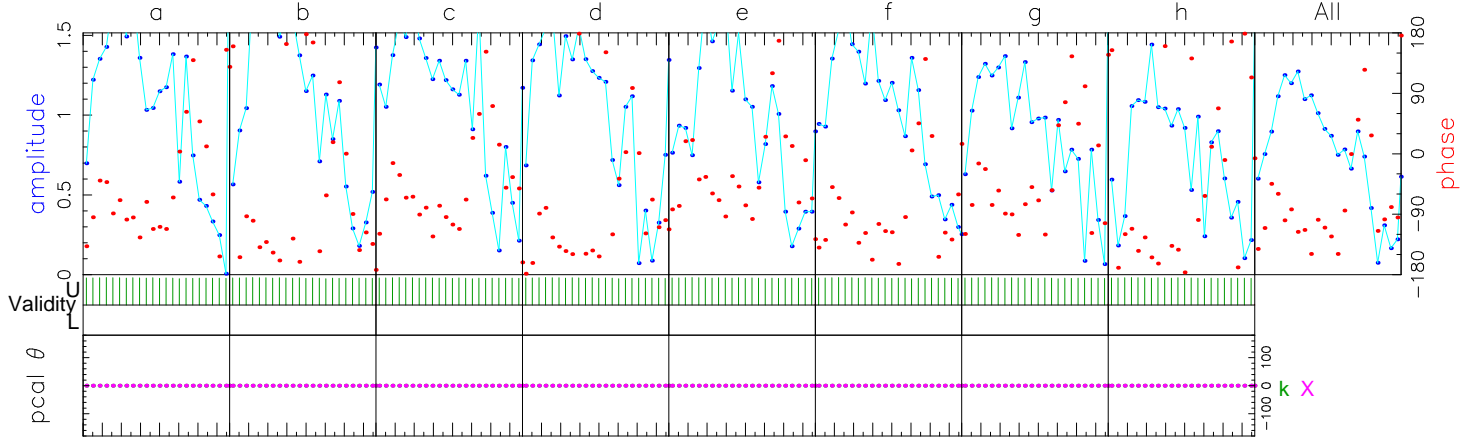


delay rate (ns/s)



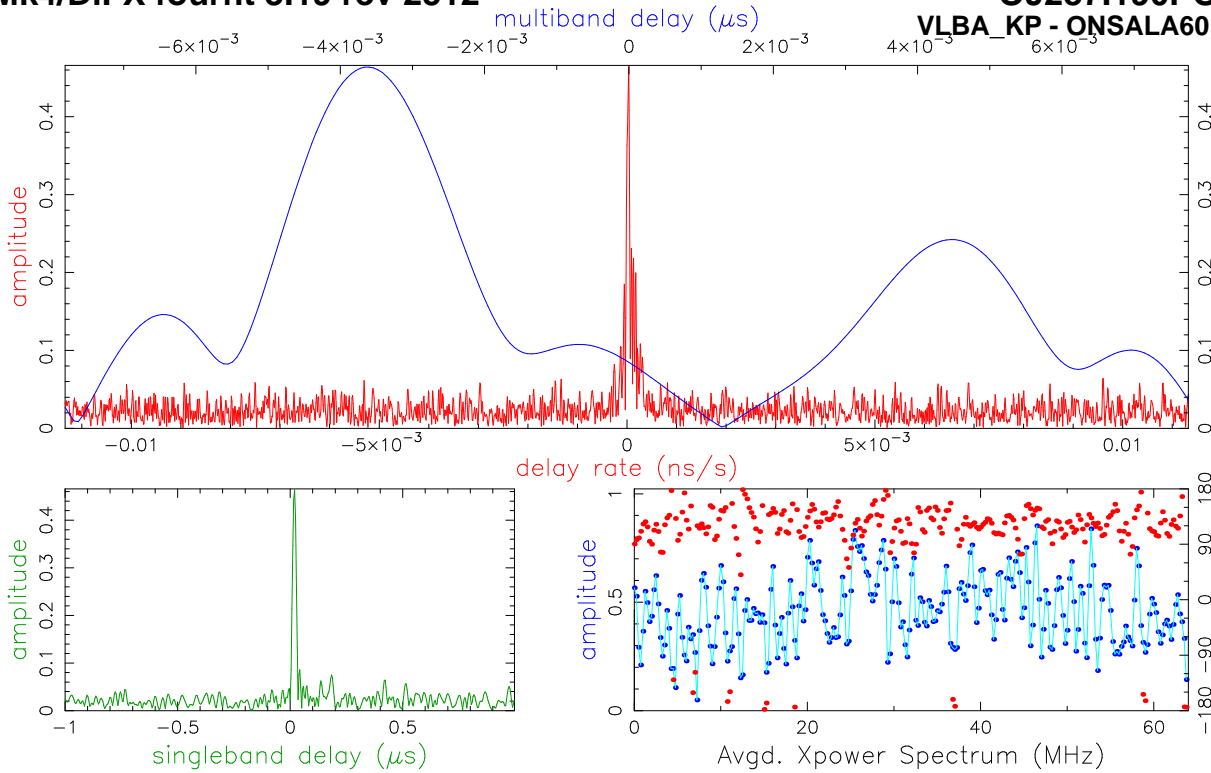
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210540
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



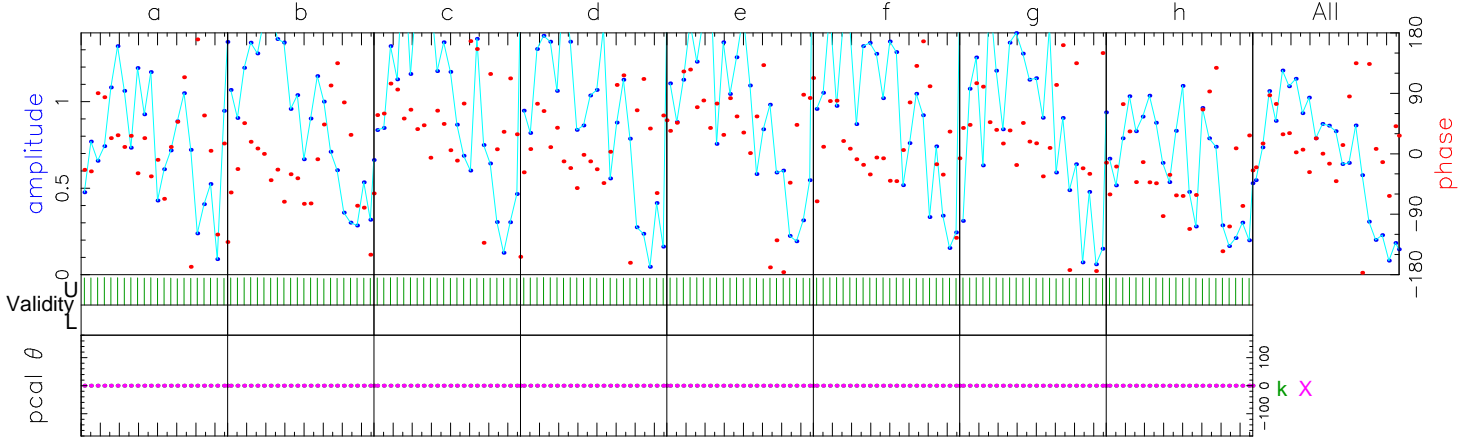
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.2	-145.0	-68.0	-138.5	-51.9	-107.3	-66.1	-152.1	Phase	-100.0
	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.4	Ampl.	0.6
	252.8	252.5	253.2	252.5	252.4	252.8	252.7	251.4	Sbd box	253.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	Manl 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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.40394781527E+03		Apriori delay (usec)		-6.40392611908E+03		Resid mbdelay (usec)		-6.07120E-03	+/- 3.8E-05
Sband delay (usec)	-6.40394102858E+03		Apriori clock (usec)		-4.1130596E+01		Resid sbdelay (usec)		-1.49095E-02	+/- 3.0E-04
Phase delay (usec)	-6.40392612230E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		-3.22616E-06	+/- 1.3E-07
Delay rate (us/s)	1.77235925760E+00		Apriori rate (us/s)		1.77235923369E+00		Resid rate (us/s)		2.39089E-08	+/- 5.1E-10
Total phase (deg)			Apriori accel (us/s/s)		2.12725451095E-05		Resid phase (deg)		-100.0	+/- 4.0

ph/seg (deg) 60.4 9.6 Theor. Amplitude 0.505 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 87.9 16.7 Search (2048X32) 0.492 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 43.0 5.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 30.1 9.9 Inc. seg. avg. 0.770 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
k: az 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kX...190POF Output file: /Exps/c201c/v1/1234/No0032/kX.W.104.190POF simultaneous interpolator



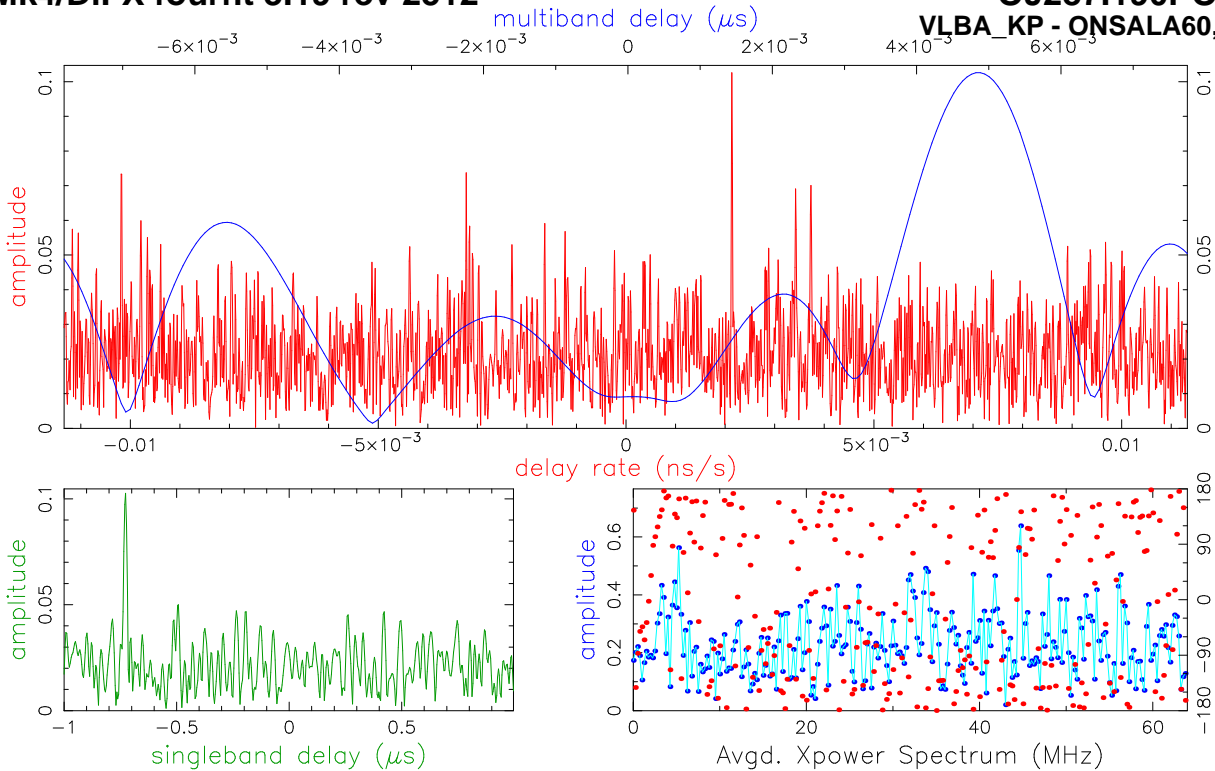
Fringe quality 6
SNR 26.5
Int time 431.374
Amp 0.466
Phase 22.5
PFD 0.0e+00
Delays (us)
SBD 0.018649
MBD -0.003646
Fringe rate (Hz) 0.002495
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210544
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



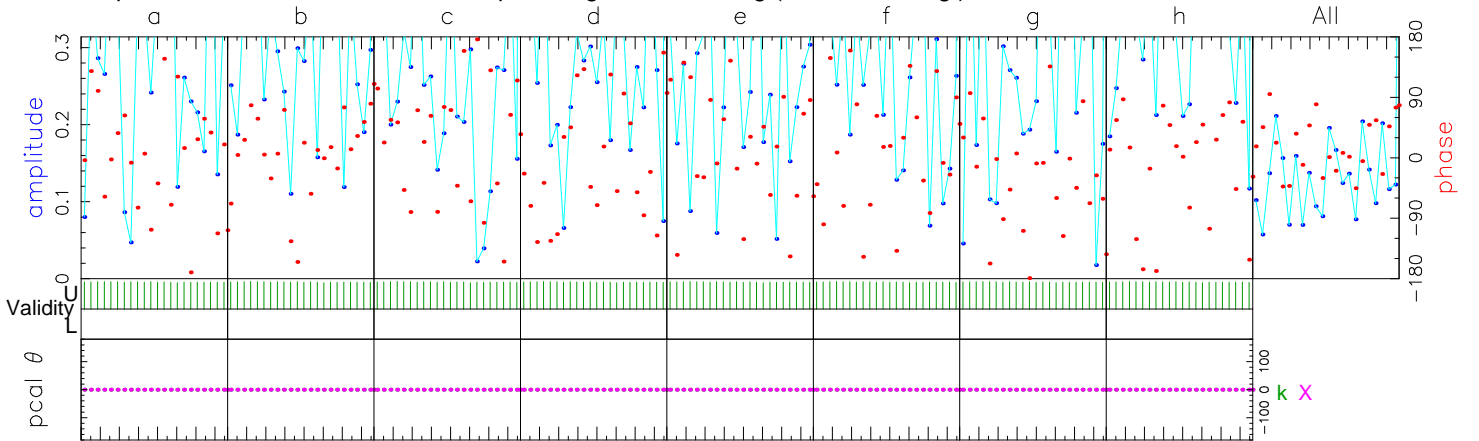
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	16.9	-17.6	57.3	9.4	68.6	4.2	38.4	-26.4		22.5
	0.5	0.6	0.7	0.5	0.6	0.6	0.6	0.3		0.5
	262.0	261.6	261.7	261.1	261.0	261.9	261.0	260.4		261.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.40391413997E+03		Apriori delay (usec)		-6.40392611908E+03		Resid mbdelay (usec)		-3.64589E-03	+/- 4.1E-05
Sband delay (usec)	-6.40390747033E+03		Apriori clock (usec)		-4.1130596E+01		Resid sbdelay (usec)		1.86487E-02	+/- 3.3E-04
Phase delay (usec)	-6.40392611835E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		7.24072E-07	+/- 1.4E-07
Delay rate (us/s)	1.77235926265E+00		Apriori rate (us/s)		1.77235923369E+00		Resid rate (us/s)		2.89602E-08	+/- 5.5E-10
Total phase (deg)			Apriori accel (us/s/s)		2.17275451095E-05		Resid phase (deg)		22.5	+/- 4.3

ph/seg (deg) 60.8 10.4 Search (2048X32) 0.449 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 87.6 18.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 36.8 6.1 Inc. seg. avg. 0.701 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 26.9 10.7 Inc. frq. avg. 0.539 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 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kX...190POF Output file: /Exps/c201c/v1/1234/No0032/kX.W.119.190POF



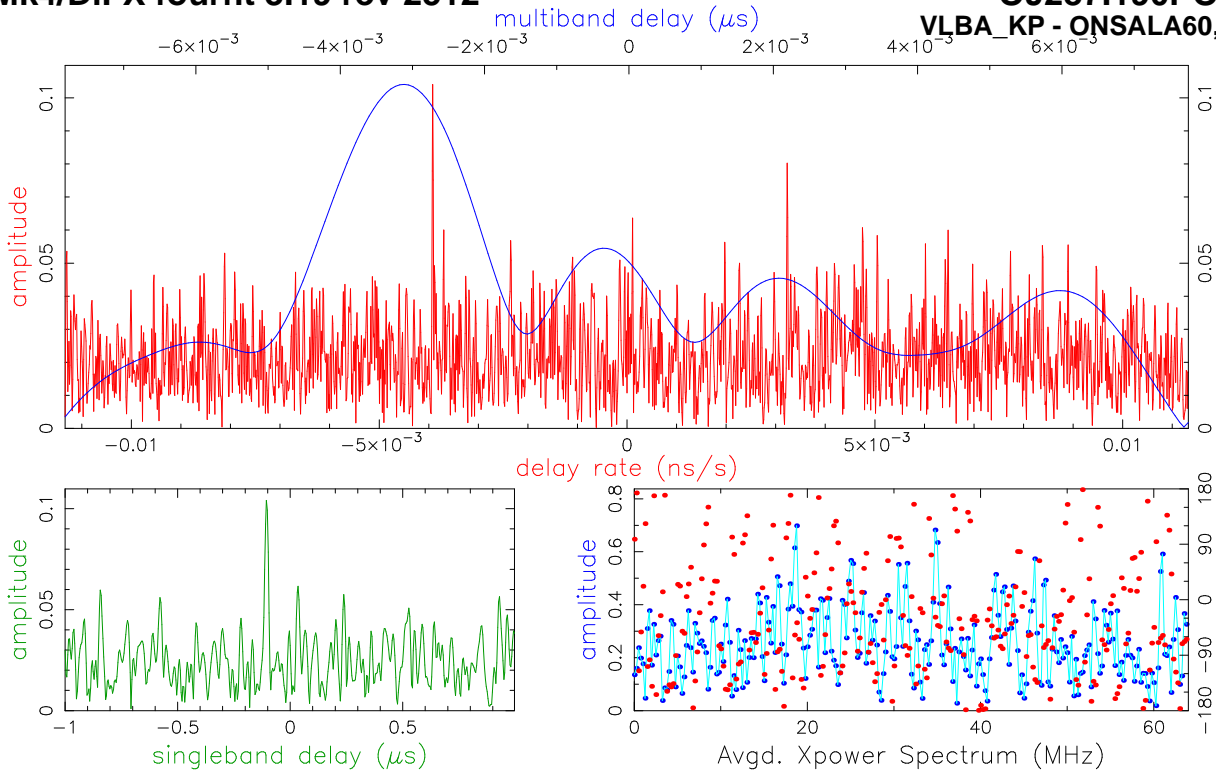
Fringe quality 0
 SNR 5.9
 Int time 431.373
 Amp 0.105
 Phase 15.1
 PFD 6.9e-01
 Delays (us)
 SBD -0.727484
 MBD 0.004826
 Fringe rate (Hz)
 0.184746
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210549
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



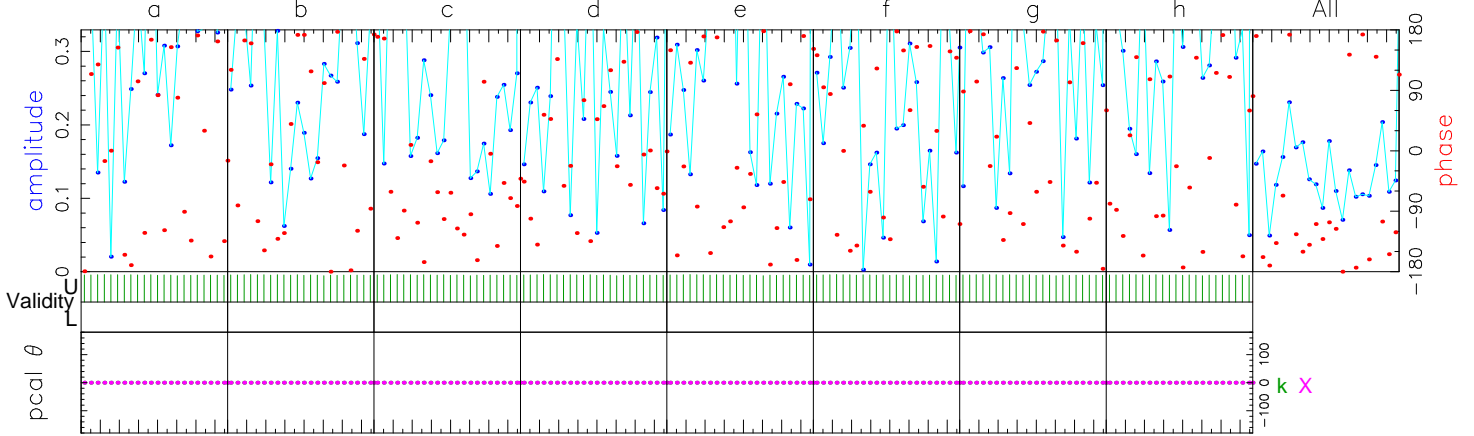
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
4.5	17.1	48.2	-41.5	48.5	15.0	-19.8	34.2	34.2	Phase	15.1
0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
103.3	70.7	25.8	16.7	408.1	165.4	358.1	212.7	212.7	Sbd box	70.8
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X 1000	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	0:0	PC phase	
k:X 0:0	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	1000	PC amp	
X 1000	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	
									Tracks	
Group delay (usec)(sbd)	-6.40465566836E+03		Apriori delay (usec)		-6.40392611908E+03		Resid mbdelay (usec)		4.82572E-03	+/- 1.9E-04
Sband delay (usec)	-6.40465360258E+03		Apriori clock (usec)		-4.1130596E+01		Resid sbdelay (usec)		-7.27484E-01	+/- 1.5E-03
Phase delay (usec)	-6.40392611859E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		4.86556E-07	+/- 6.3E-07
Delay rate (us/s)	1.77236137841E+00		Apriori rate (us/s)		1.77235923369E+00		Resid rate (us/s)		2.14472E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.17275451095E-05		Resid phase (deg)		15.1	+/- 19.6

ph/seg (deg) RMS Theor. Amplitude 0.105 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.0 46.9 Search (2048X32) 0.099 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.4 81.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.4 27.7 Inc. seg. avg. 0.099 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 39.0 48.3 Inc. frq. avg. 0.106 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



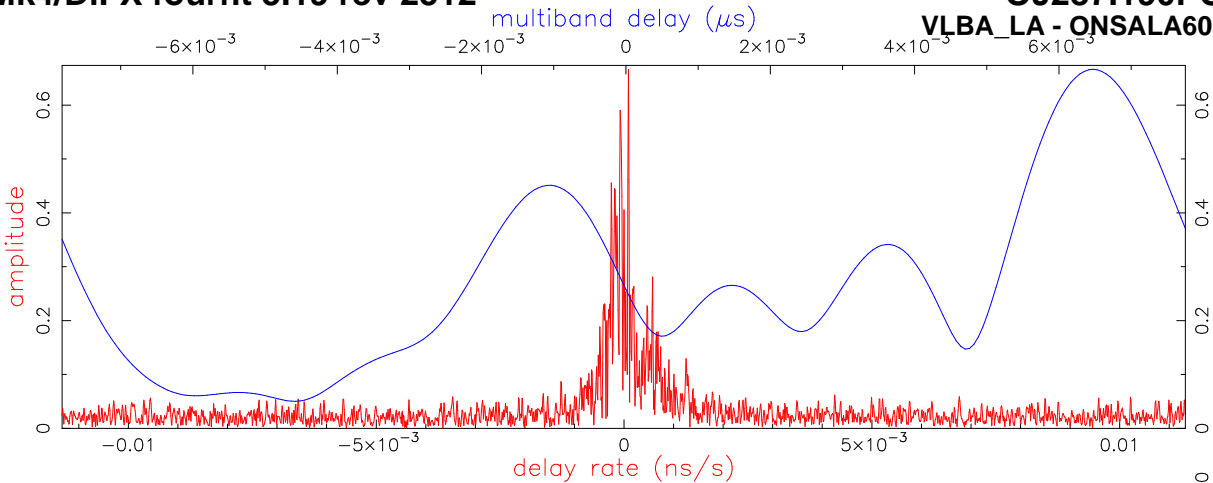
Fringe quality 0
SNR 5.9
Int time 431.374
Amp 0.110
Phase -148.6
PFD 5.3e-01
Delays (us)
SBD -0.104599
MBD -0.003124
Fringe rate (Hz)
-0.337699
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210553
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



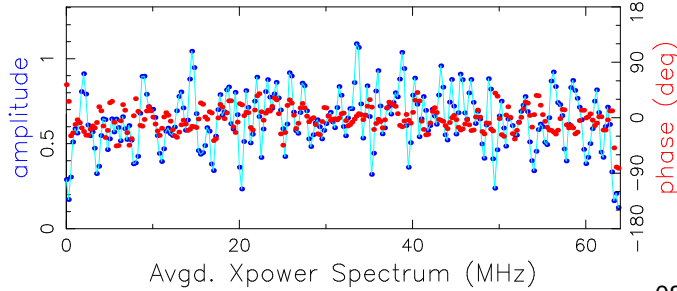
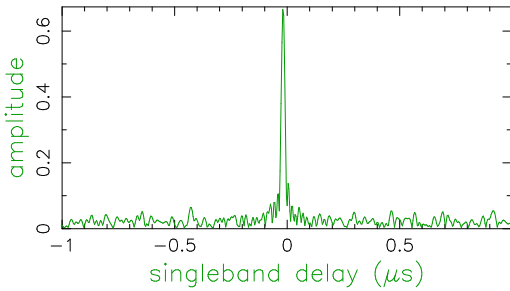
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.40402299271E+03									
Sband delay (usec)	-6.40403071858E+03									
Phase delay (usec)	-6.40392612387E+03									
Delay rate (us/s)	1.77235531334E+00									
Total phase (deg)			-111.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 38.0 46.3 Search (2048X32) 0.110 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 49.7 80.8 Interp. 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.5 27.3 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 50.1 47.6 Inc. frq. avg. 0.112 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 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kX..190POF Output file: /Exps/c201c/v1/1234/No0032/kX.W.154.190POF



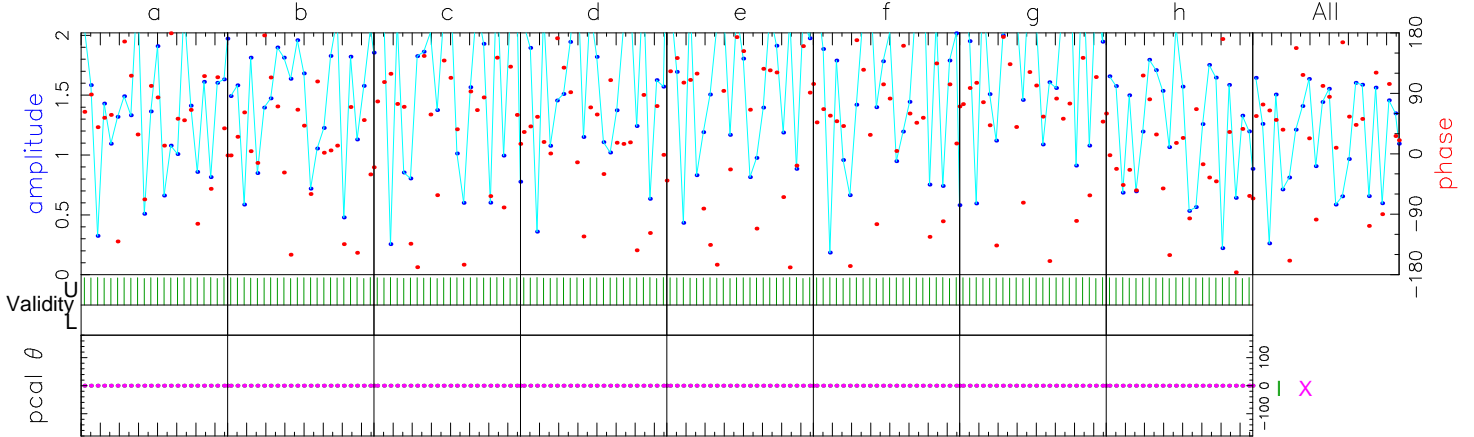
Fringe quality 4

SNR 38.4
Int time 433.779
Amp 0.674
Phase 73.3
PFD 0.0e+00
Delays (us)
SBD -0.018177
MBD 0.006504
Fringe rate (Hz)
0.007170
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210551
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

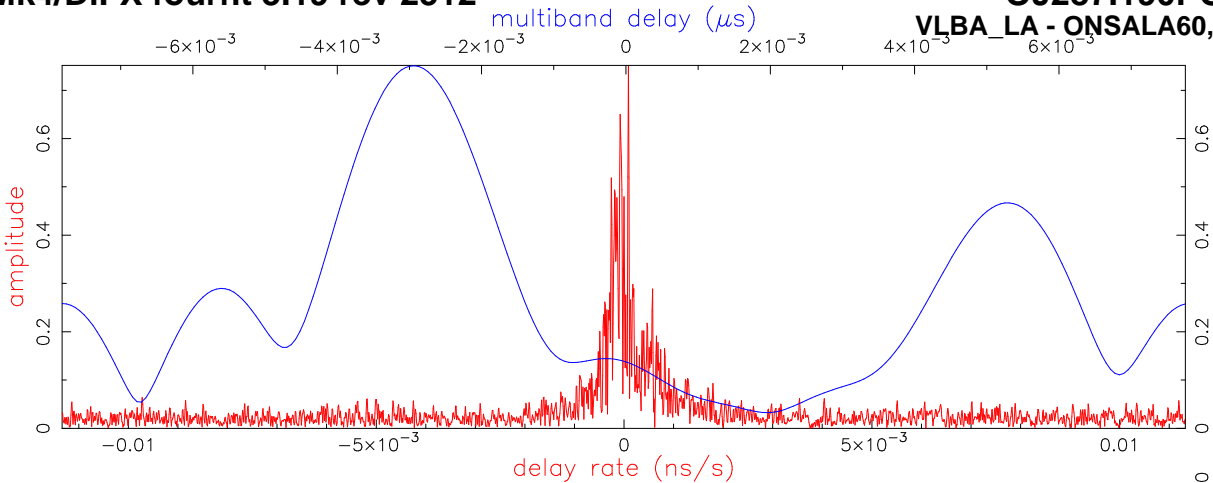


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-4.68566711020E+03	Apriori delay (usec)	-4.68564236426E+03	Resid mbdelay (usec)	6.50406E-03	+/-	2.8E-05
Sband delay (usec)	-4.68566054151E+03	Apriori clock (usec)	-4.4503204E+01	Resid sbdelay (usec)	-1.81773E-02	+/-	2.2E-04
Phase delay (usec)	-4.68564236189E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	2.36404E-06	+/-	9.6E-08
Delay rate (us/s)	1.69170930964E+00	Apriori rate (us/s)	1.69170922640E+00	Resid rate (us/s)	8.32399E-08	+/-	3.8E-10
Total phase (deg)	-19.3	Apriori accel (us/s/s)	1.47105931689E-05	Resid phase (deg)	73.3	+/-	3.0

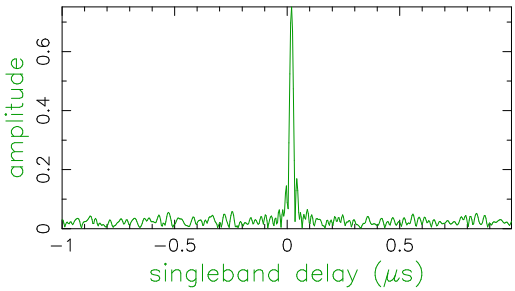
ph/seg (deg)	RMS 79.4	Theor. 7.2	Amplitude 0.674 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.4	7.2	Search (2048X32) 0.610	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	95.0	12.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	50.2	4.2	Inc. seg. avg. 1.144	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
	35.1	7.4	Inc. frq. avg. 0.876	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.149.190POF

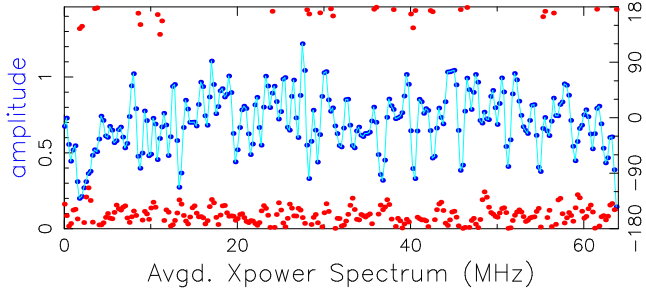


Fringe quality 4

SNR 42.8
Int time 433.780
Amp 0.752
Phase 92.6
PFD 0.0e+00
Delays (us)
SBD 0.019102
MBD -0.002961
Fringe rate (Hz)
0.007181
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

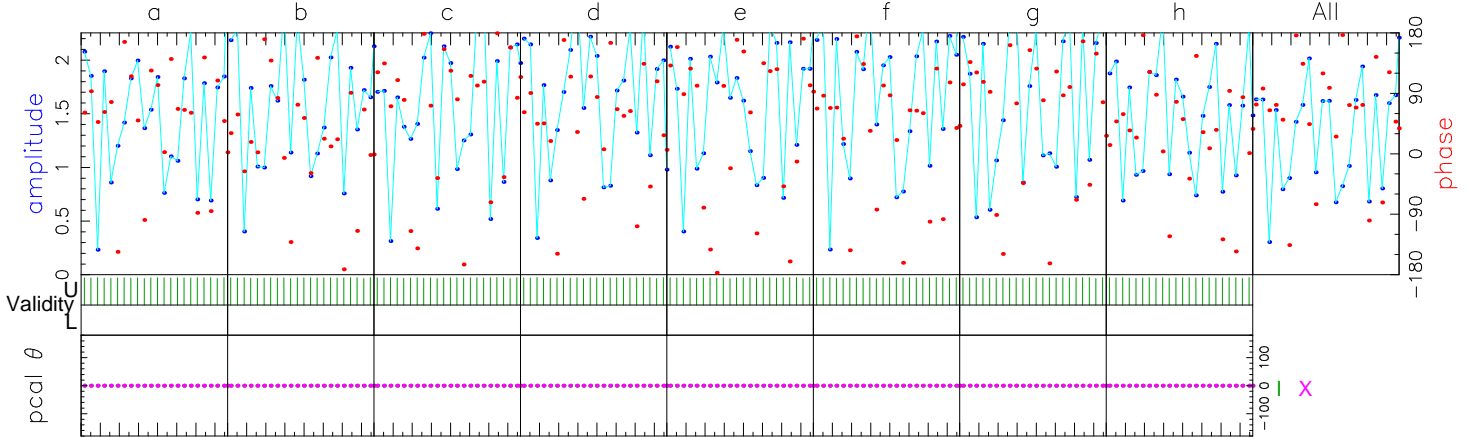


delay rate (ns/s)

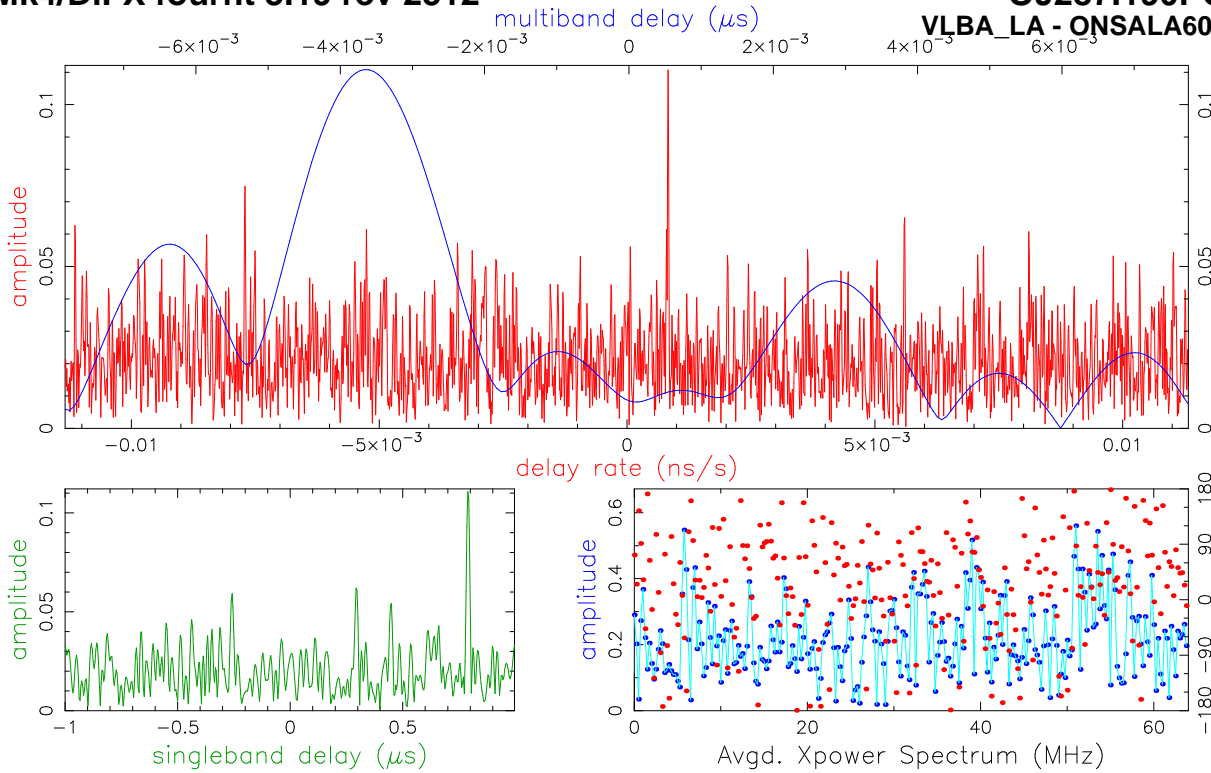


Exp. c201c
Yr:day 16383
2020:202:063214
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:210555
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

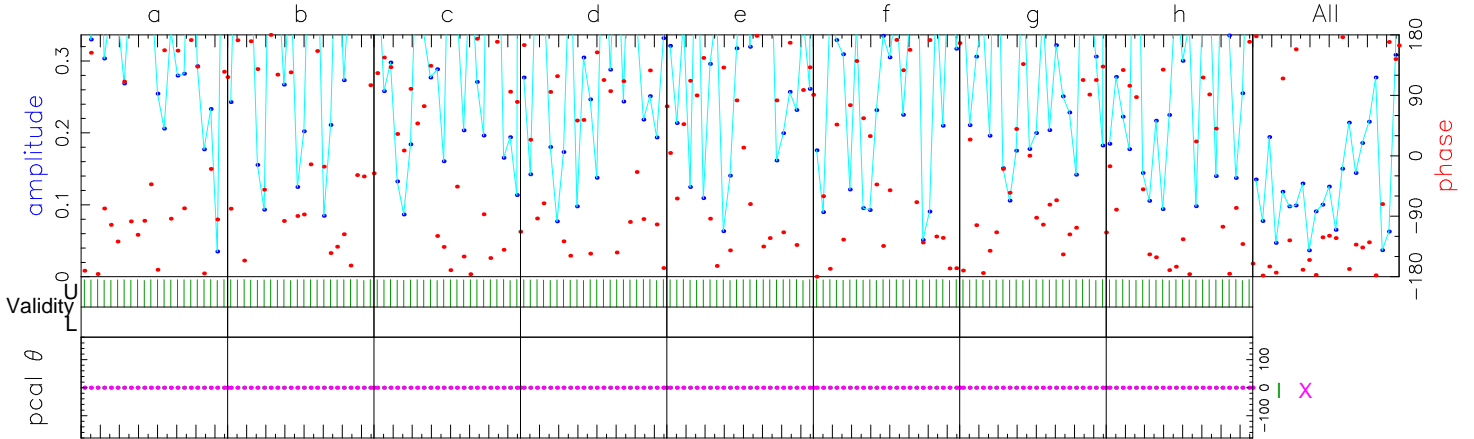


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.68562970048E+03				-4.68564236426E+03				-2.96122E-03	+/- 2.5E-05
Sband delay (usec)	-4.68562326226E+03				-4.4503204E+01				1.91020E-02	+/- 2.0E-04
Phase delay (usec)	-4.68564236127E+03				-6.7900004E-07				2.98658E-06	+/- 8.6E-08
Delay rate (us/s)	1.69170930976E+00				1.69170922640E+00				8.33632E-08	+/- 3.4E-10
Total phase (deg)			0.0		1.47105931689E-05				92.6	+/- 2.7
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
RMS	78.1	6.4			0.752 +/- 0.018					
ph/seg (deg)	78.1	6.4			0.693					
amp/seg (%)	95.9	11.2			0.000					
ph/frq (deg)	40.6	3.8			1.290					
amp/frq (%)	22.5	6.6			0.909					
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
SampCntNorm: enabled										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00



Fringe quality 0
 SNR 6.4
 Int time 433.779
 Amp 0.112
 Phase -166.5
 PFD 5.0e-02
 Delays (us)
 SBD 0.790325
 MBD -0.003594
 Fringe rate (Hz)
 0.071223
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210600
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

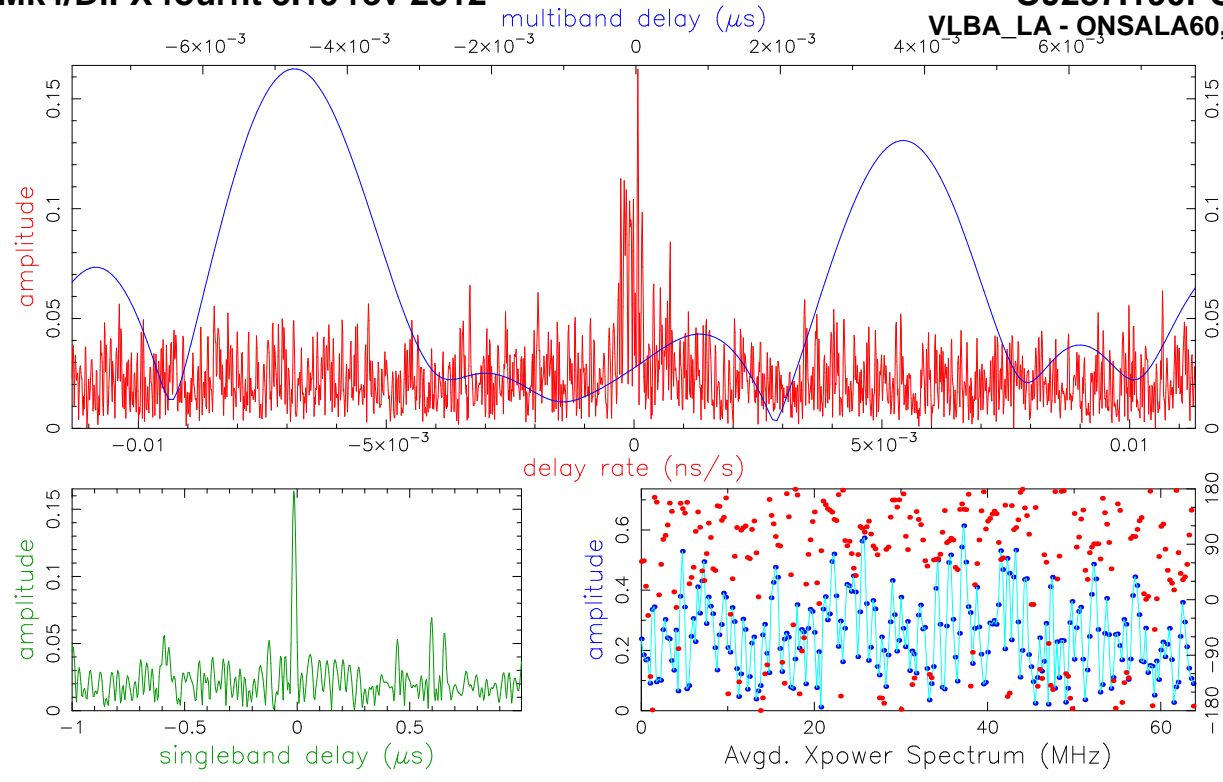


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-4.68484908286E+03	Apriori delay (usec)	-4.68564236426E+03	Resid mbdelay (usec)	-3.59360E-03	+/-	1.7E-04
Sband delay (usec)	-4.68485203926E+03	Apriori clock (usec)	-4.4503204E+01	Resid sbdelay (usec)	7.90325E-01	+/-	1.4E-03
Phase delay (usec)	-4.68564236963E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-5.36837E-06	+/-	5.8E-07
Delay rate (us/s)	1.69171005323E+00	Apriori rate (us/s)	1.69170922640E+00	Resid rate (us/s)	8.26832E-07	+/-	2.3E-09
Total phase (deg)	-259.1	Apriori accel (us/s/s)	1.47105931689E-05	Resid phase (deg)	-166.5	+/-	18.0

ph/seg (deg)	38.1	Theor.	43.1	Amplitude	0.112 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	70.2		75.3	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	20.4		25.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	35.2		44.4	Inc. seg. avg.	0.104	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.106	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.176.190POF

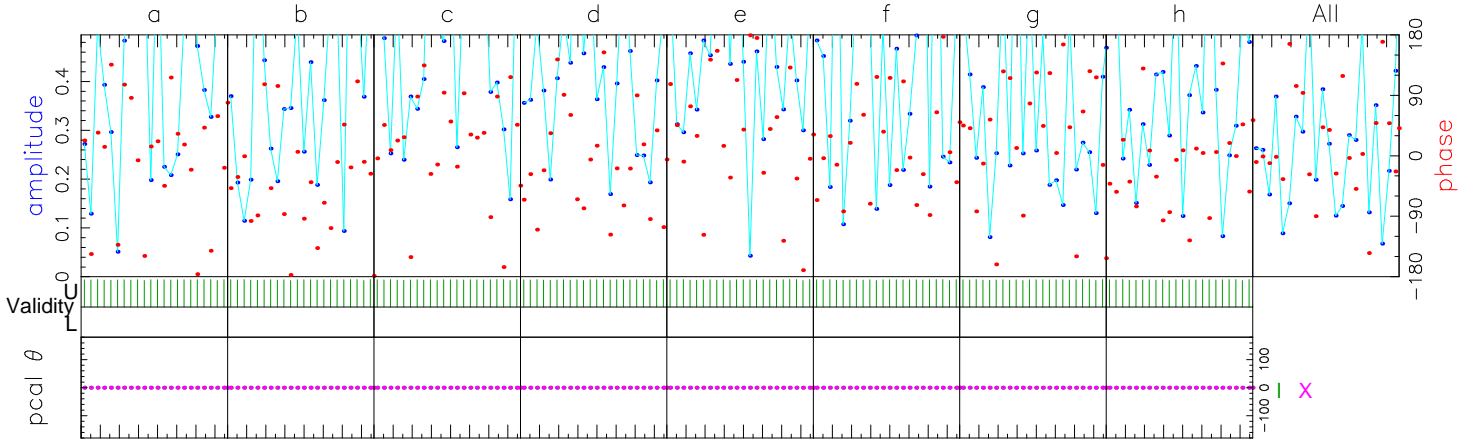


Fringe quality 9

SNR 9.4
 Int time 433.780
 Amp 0.165
 Phase 8.5
 PFD 2.0e-12
 Delays (us)
 SBD -0.014203
 MBD -0.004676
 Fringe rate (Hz) 0.007071
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210604
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



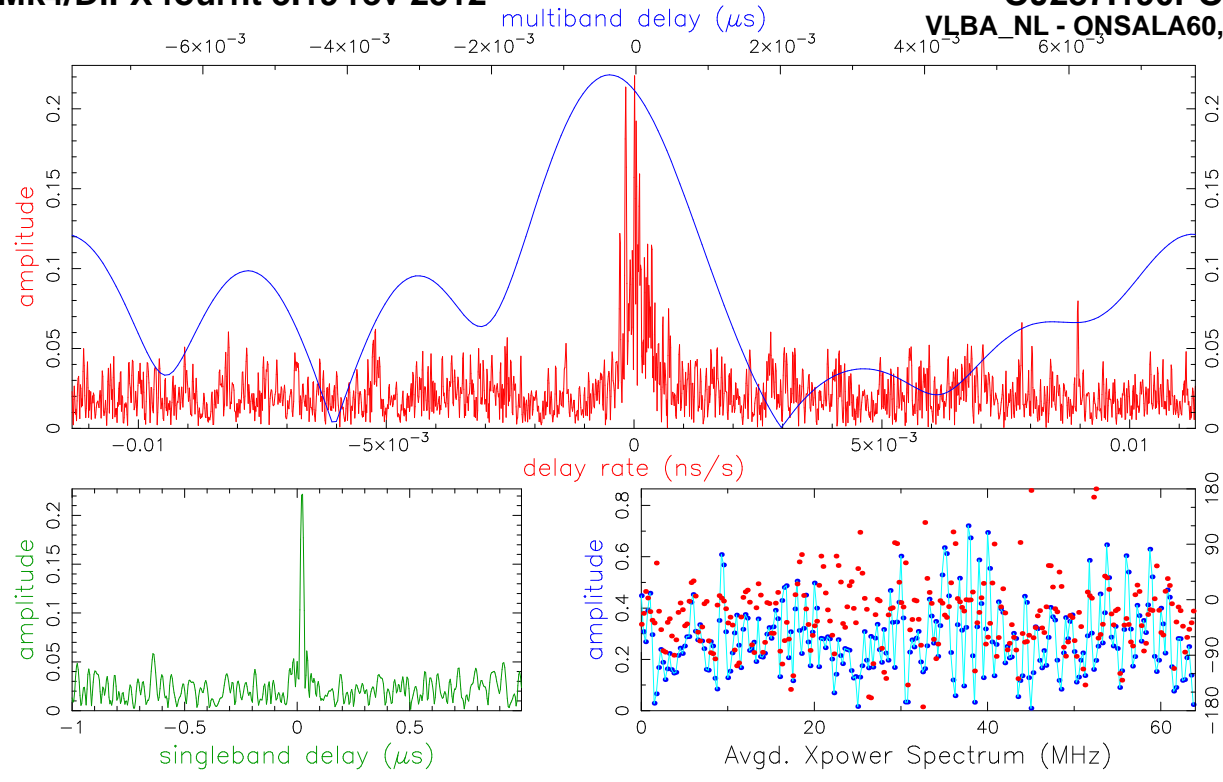
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-4.68566266557E+03	Apriori delay (usec)	-4.68564236426E+03	Resid mbdelay (usec)	-4.67631E-03	+/-	1.2E-04
Sband delay (usec)	-4.68565656751E+03	Apriori clock (usec)	-4.4503204E+01	Resid sbdelay (usec)	-1.42033E-02	+/-	9.2E-04
Phase delay (usec)	-4.68564236398E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	2.75316E-07	+/-	3.9E-07
Delay rate (us/s)	1.69170930849E+00	Apriori rate (us/s)	1.69170922640E+00	Resid rate (us/s)	8.20885E-08	+/-	1.5E-09
Total phase (deg)	-84.1	Apriori accel (us/s/s)	1.47105931689E-05	Resid phase (deg)	8.5	+/-	12.2

ph/seg (deg)	76.1	Theor.	29.2	Amplitude	0.165 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	103.4	Search (2048X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	45.8	Interp.	0.000	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	35.2	Inc. seg. avg.	0.239	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.197	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

I: az 82.1 el 24.3 pa -58.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10283.593 -1669.400 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IX..190POF Output file: /Exps/c201c/v1/1234/No0032/IX.W.194.190POF

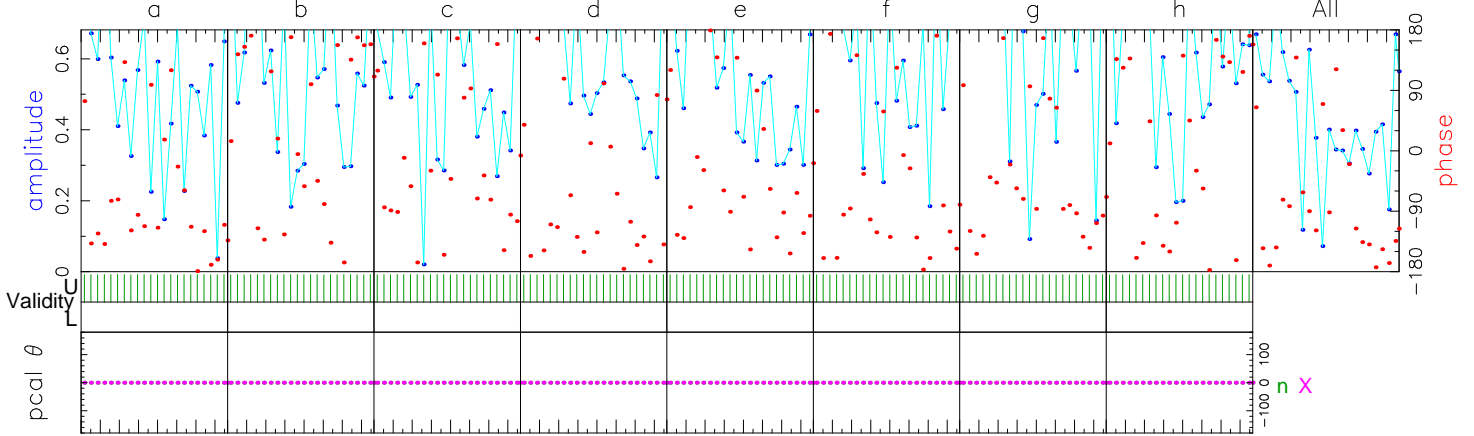


Fringe quality 9

SNR 13.0
Int time 437.932
Amp 0.227
Phase -130.9
PFD 6.4e-30
Delays (us)
SBD 0.021552
MBD -0.000285
Fringe rate (Hz) 0.000772
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

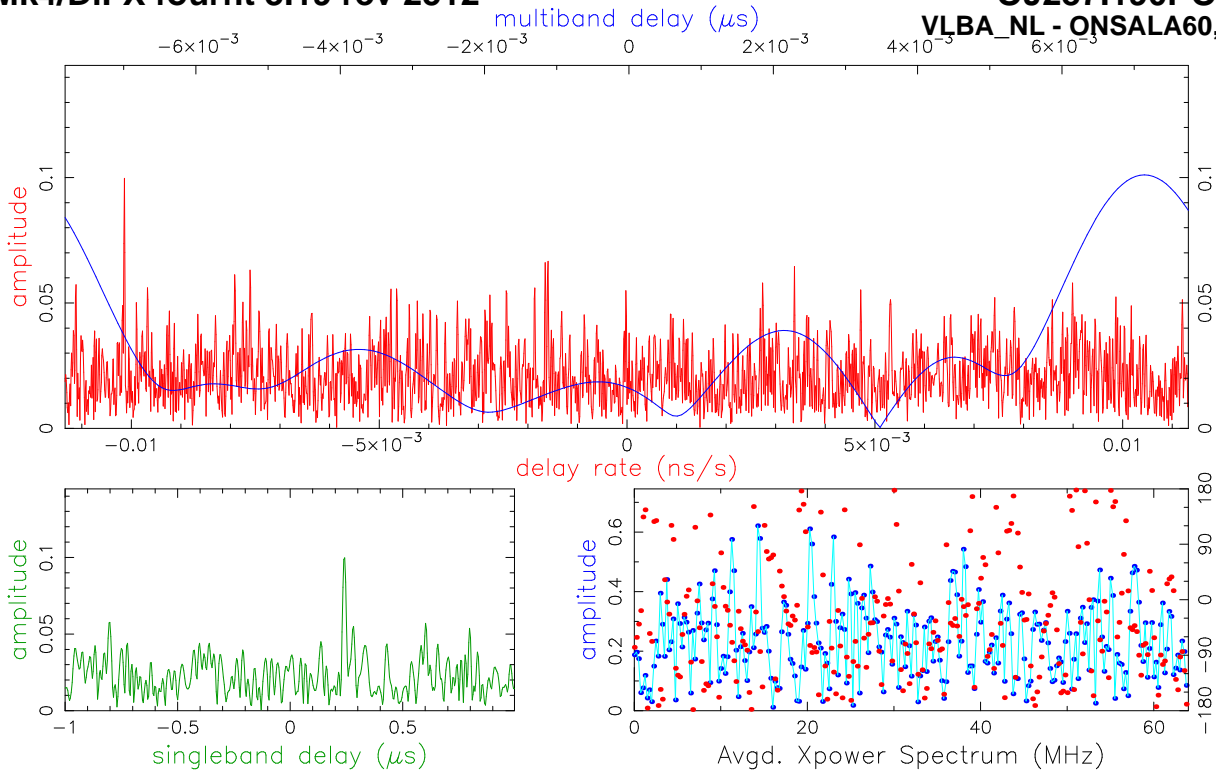
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210556
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



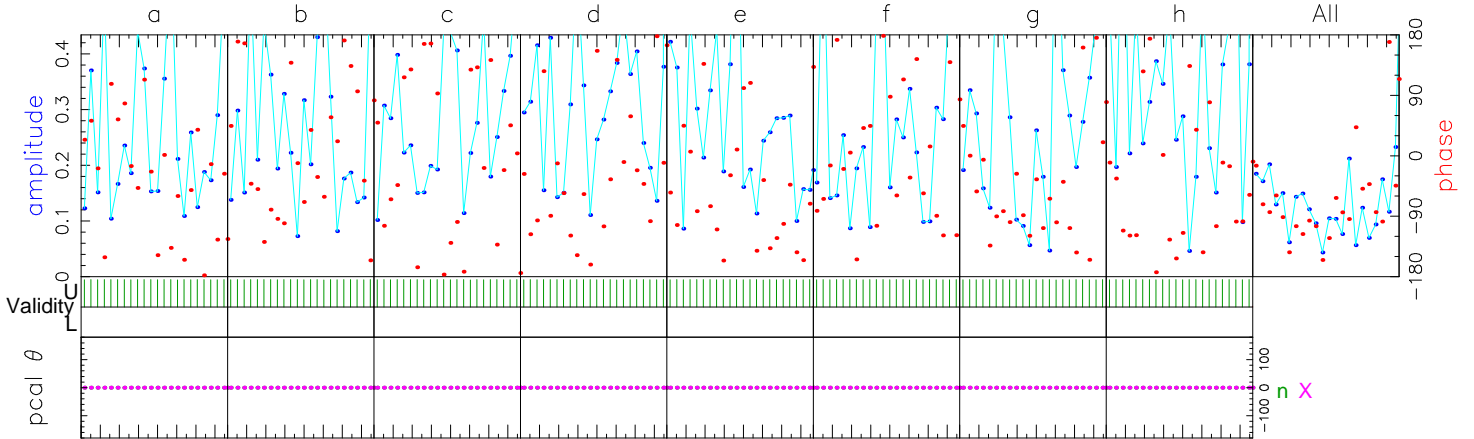
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-123.8	-176.5	-83.6	-135.2	-92.4	-142.3	-102.8	156.0	Phase	-130.9
	0.3	0.2	0.2	0.3	0.2	0.3	0.4	0.2	Ampl.	0.3
	262.1	263.0	262.8	261.7	261.4	262.6	262.1	261.1	Sbd box	262.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
X	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-9.79048287969E+02		Apriori delay (usec)		-9.79063627558E+02		Resid mbdelay (usec)		-2.85411E-04	+/- 8.3E-05
Sband delay (usec)	-9.79042075308E+02		Apriori clock (usec)		-8.4874878E+00		Resid sbdelay (usec)		2.15522E-02	+/- 6.6E-04
Phase delay (usec)	-9.79063631779E+02		Apriori clockrate (us/s)		-1.9400004E-07		Resid phdelay (usec)		-4.22011E-06	+/- 2.8E-07
Delay rate (us/s)	1.48483647635E+00		Apriori rate (us/s)		1.48483646739E+00		Resid rate (us/s)		8.96113E-09	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.66171278845E-06		Resid phase (deg)		-130.9	+/- 8.8

ph/seg (deg) 76.9 21.1 Search (2048X32) 0.217 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 119.7 36.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.0 12.5 Inc. seg. avg. 0.403 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.8 21.8 Inc. frq. avg. 0.264 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 94.6 el 35.9 pa -52.3 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9050.859 -1467.582 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/nX..190POF Output file: /Exps/c201c/v1/1234/No0032/nX.W.164.190POF



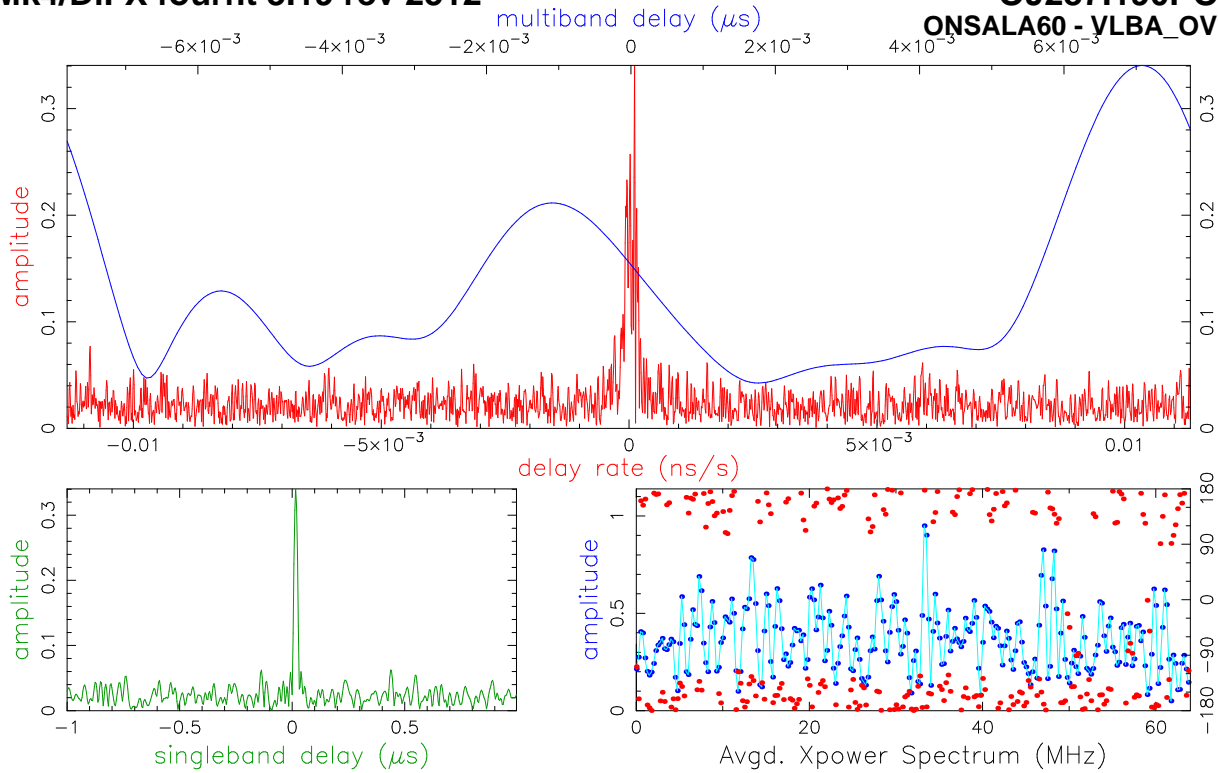
Fringe quality 0
SNR 5.8
Int time 437.932
Amp 0.145
Phase -82.7
PFD 8.0e-01
Delays (us)
SBD 0.240485
MBD -0.008301
Fringe rate (Hz)
-0.875213
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210601
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



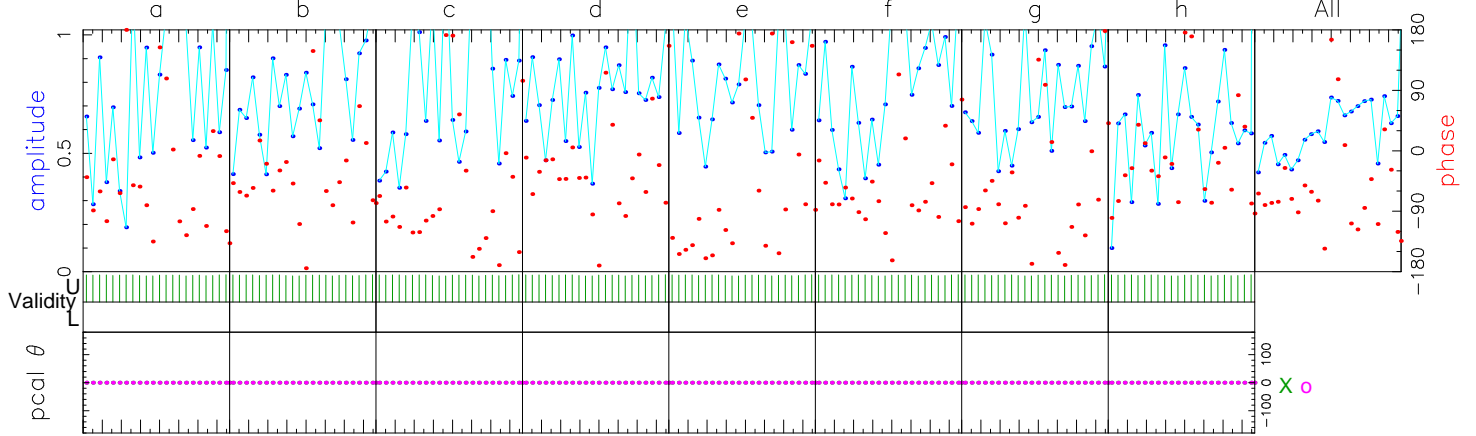
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-47.2	-81.7	-119.0	-74.5	-66.3	-104.4	-84.2	-96.9	Phase	-82.7
	0.1	0.1	0.0	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	257.2	377.6	179.1	315.0	176.8	494.5	191.6	319.0	Sbd box	318.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-9.78821928340E+02		Apriori delay (usec)		-9.79063627558E+02		Resid mbdelay (usec)		-8.30078E-03	+/- 1.9E-04
Sband delay (usec)	-9.78823142308E+02		Apriori clock (usec)		-8.4874878E+00		Resid sbdelay (usec)		2.40485E-01	+/- 1.5E-03
Phase delay (usec)	-9.79063630226E+02		Apriori clockrate (us/s)		-1.9400004E-07		Resid phdelay (usec)		-2.66716E-06	+/- 6.4E-07
Delay rate (us/s)	1.48482630703E+00		Apriori rate (us/s)		1.48483646739E+00		Resid rate (us/s)		-1.01604E-05	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.66171278845E-06		Resid phase (deg)		-82.7	+/- 19.7

ph/seg (deg) 48.2 47.3 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.4 82.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.5 27.9 Inc. seg. avg. 0.137 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.6 48.7 Inc. frq. avg. 0.133 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 94.6 el 35.9 pa -52.3 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -9050.859 -1467.582 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/nX..190POF Output file: /Exps/c201c/v1/1234/No0032/nX.W.184.190POF



Fringe quality 8
SNR 19.3
Int time 427.950
Amp 0.341
Phase -75.2
PFD 0.0e+00
Delays (us)
SBD 0.015773
MBD 0.007083
Fringe rate (Hz) 0.009612
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210559
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-63.6	-48.0	-118.1	-35.8	-138.9	-68.7	-95.3	-24.3	Phase	-75.2
	0.4	0.5	0.5	0.5	0.4	0.5	0.4	0.3	Ampl.	0.4
	261.0	261.7	260.8	261.8	261.5	261.3	261.6	262.7	Sbd box	261.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.88035320158E+03		Apriori delay (usec)		7.88033049356E+03		Resid mbdelay (usec)		7.08302E-03	+/- 5.6E-05
Sband delay (usec)	7.88034626631E+03		Apriori clock (usec)		2.0691816E+01		Resid sbdelay (usec)		1.57728E-02	+/- 4.5E-04
Phase delay (usec)	7.88033049114E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-2.42531E-06	+/- 1.9E-07
Delay rate (us/s)	-1.71799356925E+00		Apriori rate (us/s)		-1.71799368083E+00		Resid rate (us/s)		1.11582E-07	+/- 7.6E-10
Total phase (deg)	182.4		Apriori accel (us/s/s)		-3.26102553554E-05		Resid phase (deg)		-75.2	+/- 5.9

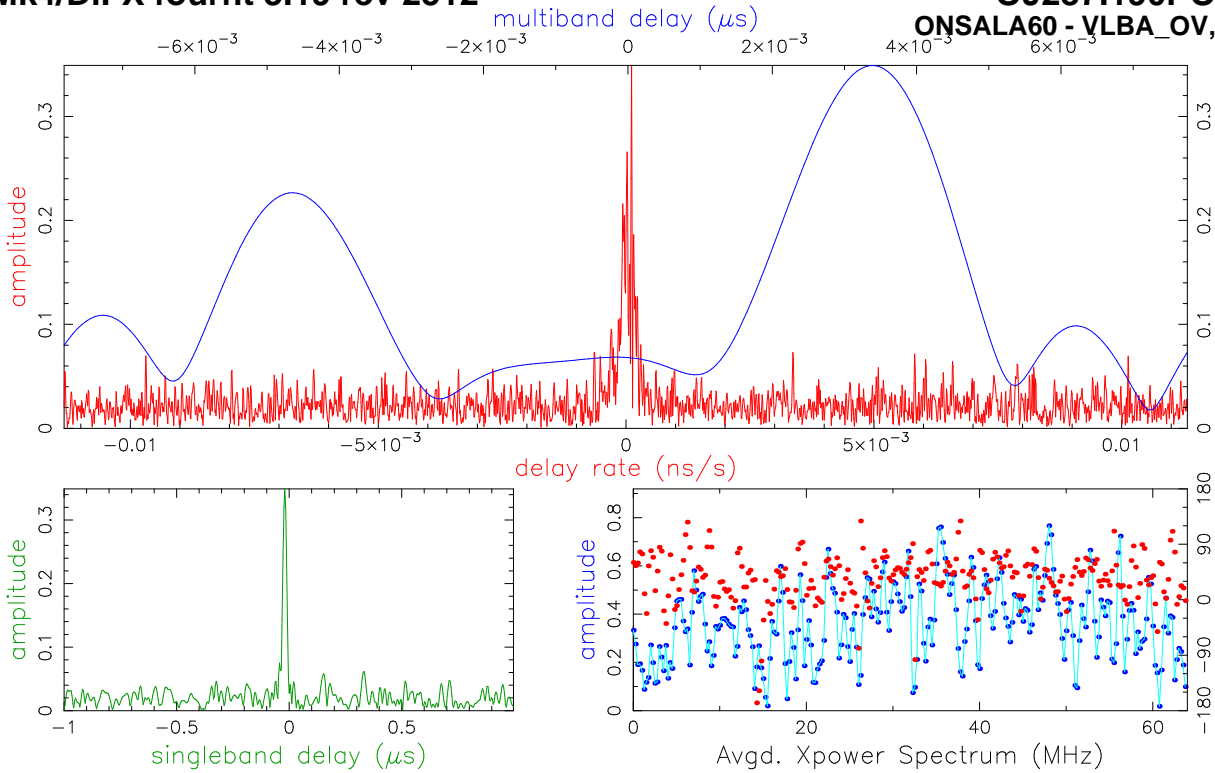
ph/seg (deg) 61.2 14.3
amp/seg (%) 81.2 24.9
ph/frq (deg) 43.5 8.4
amp/frq (%) 32.0 14.7

RMS Theor. Amplitude 0.341 +/- 0.018
Search (2048X32) 0.332
Interp. 0.000
Inc. seg. avg. 0.578
Inc. frq. avg. 0.422

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

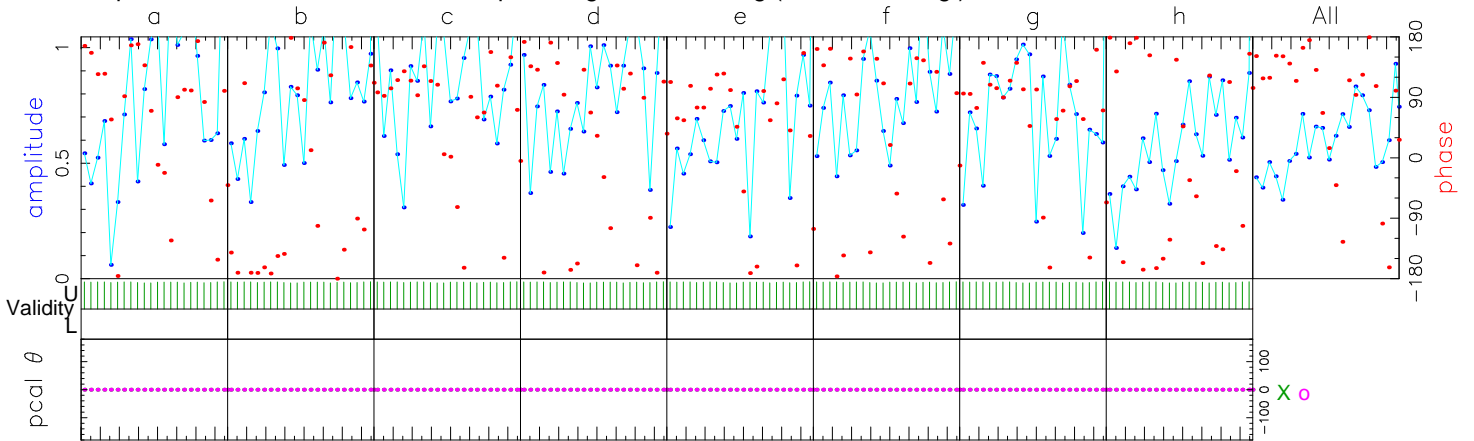
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

X: az 239.7 el 40.6 pa 29.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10414.323 986.391 simultaneous interpolator



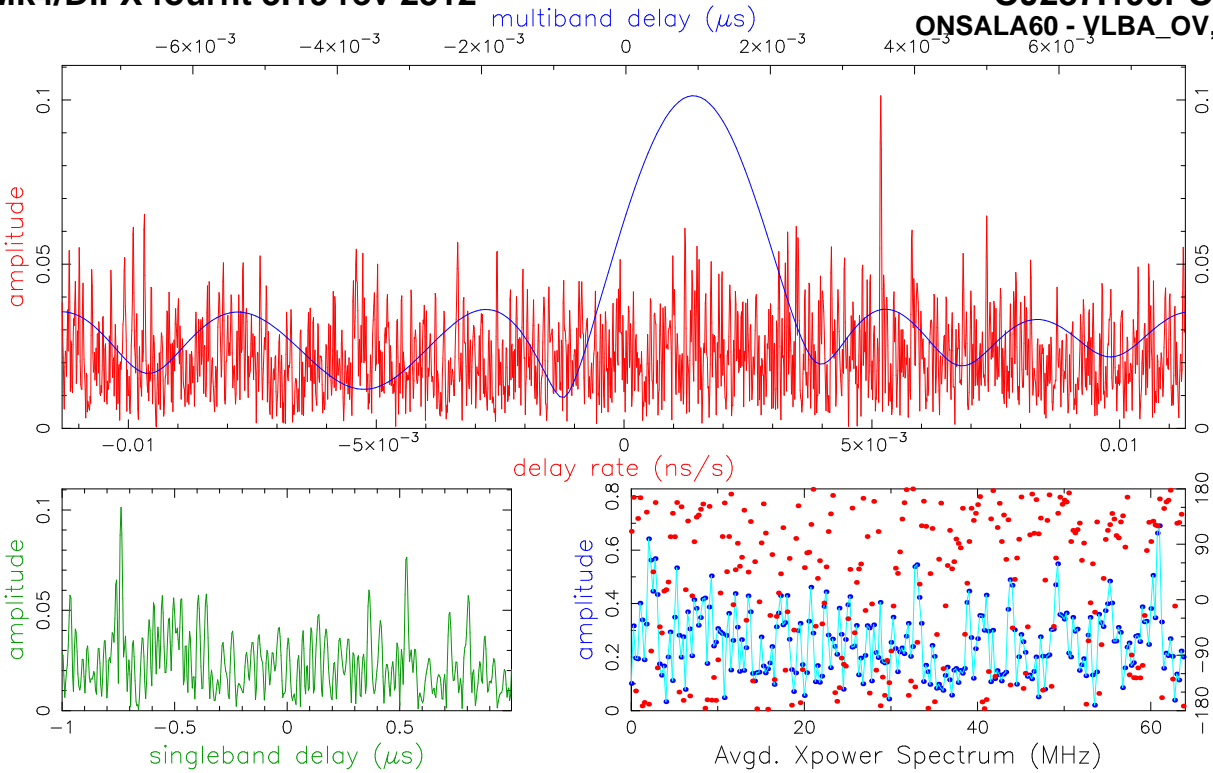
Fringe quality 8
SNR 19.7
Int time 427.950
Amp 0.349
Phase 134.5
PFD 0.0e+00
Delays (us)
SBD -0.019625
MBD 0.003383
Fringe rate (Hz) 0.009437
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210604
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
X	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)	7.88031825155E+03				7.88033049356E+03				3.38298E-03	+/- 5.5E-05
Sband delay (usec)	7.88031086881E+03				2.0691816E+01				-1.96247E-02	+/- 4.4E-04
Phase delay (usec)	7.88033049790E+03				3.2700001E-07				4.33821E-06	+/- 1.9E-07
Delay rate (us/s)	-1.71799357127E+00				-1.71799368083E+00				1.09560E-07	+/- 7.4E-10
Total phase (deg)			32.2		-3.26102553554E-05				134.5	+/- 5.8
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 64.1 13.9 Search (2048X32) 0.346 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.2 24.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.2 8.2 Inc. seg. avg. 0.579 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 31.3 14.3 Inc. frq. avg. 0.421 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 239.7 el 40.6 pa 29.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10414.323 986.391 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xo..190POF Output file: /Exps/c201c/v1/1234/No0032/Xo.W.193.190POF

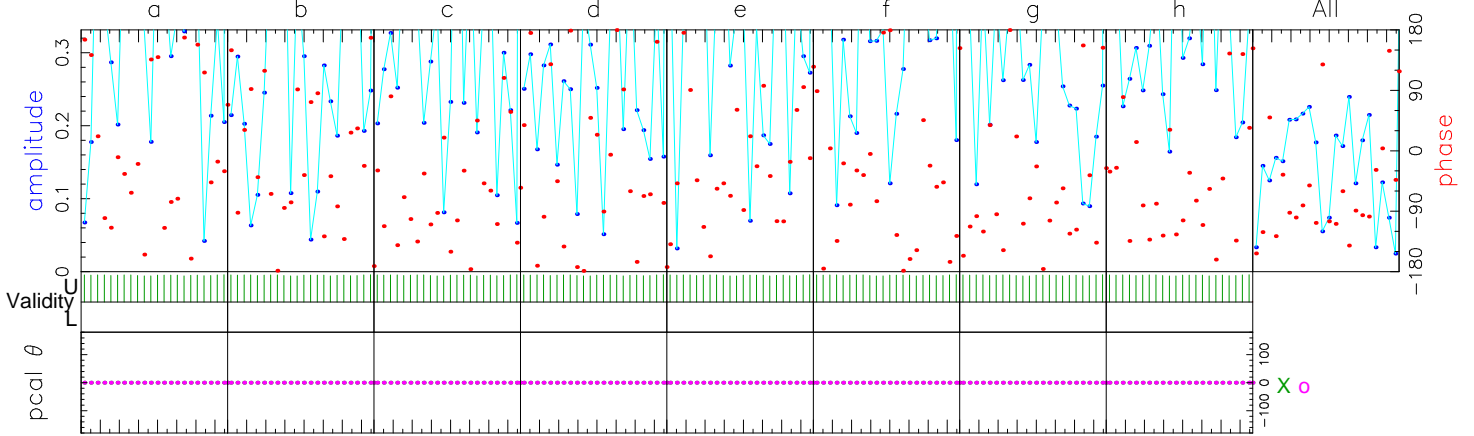


Fringe quality 0

SNR 5.7
Int time 427.950
Amp 0.111
Phase -92.0
PFD 9.2e-01
Delays (us)
SBD -0.738285
MBD 0.000932
Fringe rate (Hz) 0.446536
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

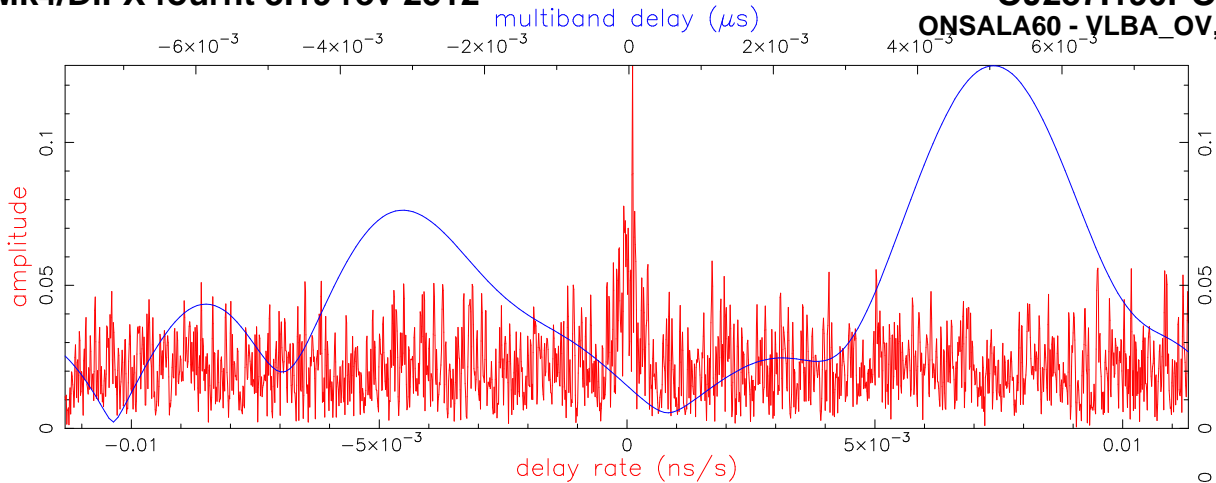
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210608
2020:014:135814
RA & Dec (J2000)
08h54m48.8749285s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

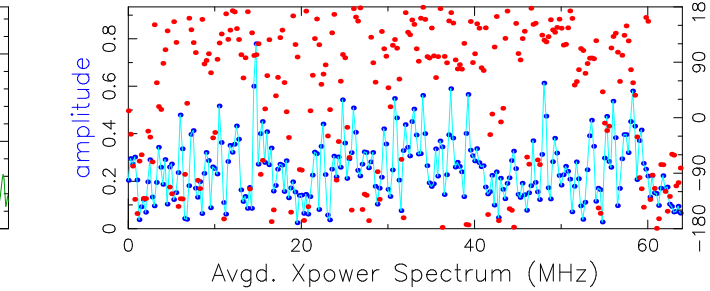
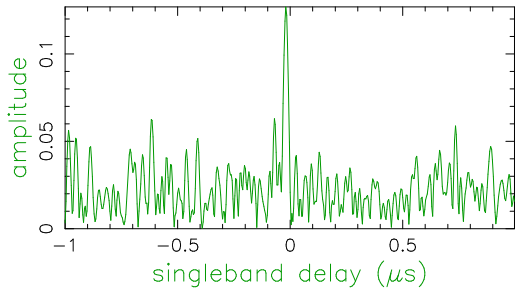


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-90.1	-68.4	-92.9	-155.9	-67.5	-89.7	-114.4	-75.8	Phase	-92.0
	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	129.4	152.5	98.8	464.7	116.1	99.8	67.8	67.9	Sbd box	68.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	7.87959705016E+03		Apriori delay (usec)		7.88033049356E+03		Resid mbdelay (usec)		9.31597E-04	+/- 1.9E-04
Sband delay (usec)	7.87959220831E+03		Apriori clock (usec)		2.0691816E+01		Resid sbdelay (usec)		-7.38285E-01	+/- 1.5E-03
Phase delay (usec)	7.88033049060E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-2.96568E-06	+/- 6.5E-07
Delay rate (us/s)	-1.71798849699E+00		Apriori rate (us/s)		-1.71799368083E+00		Resid rate (us/s)		5.18384E-06	+/- 2.5E-09
Total phase (deg)	165.7		Apriori accel (us/s/s)		-3.26102553554E-05		Resid phase (deg)		-92.0	+/- 20.0

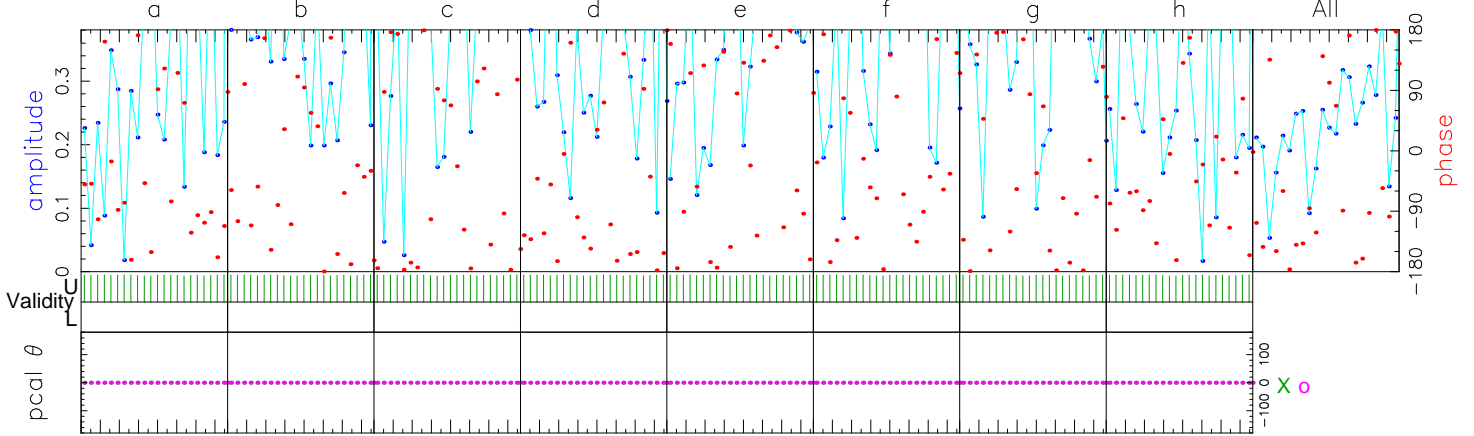
ph/seg (deg) 62.0 48.0 Amplitude 0.111 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.1 83.7 Search (2048X32) 0.098 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.7 28.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.5 49.4 Inc. seg. avg. 0.116 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 X: az 239.7 el 40.6 pa 29.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10414.323 986.391 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xo..190POF Output file: /Exps/c201c/v1/1234/No0032/Xo.W.214.190POF simultaneous interpolator



Fringe quality 0
SNR 7.2
Int time 427.950
Amp 0.127
Phase -141.7
PFD 2.1e-04
Delays (us)
SBD -0.018987
MBD 0.005072
Fringe rate (Hz) 0.009601
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210612
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"



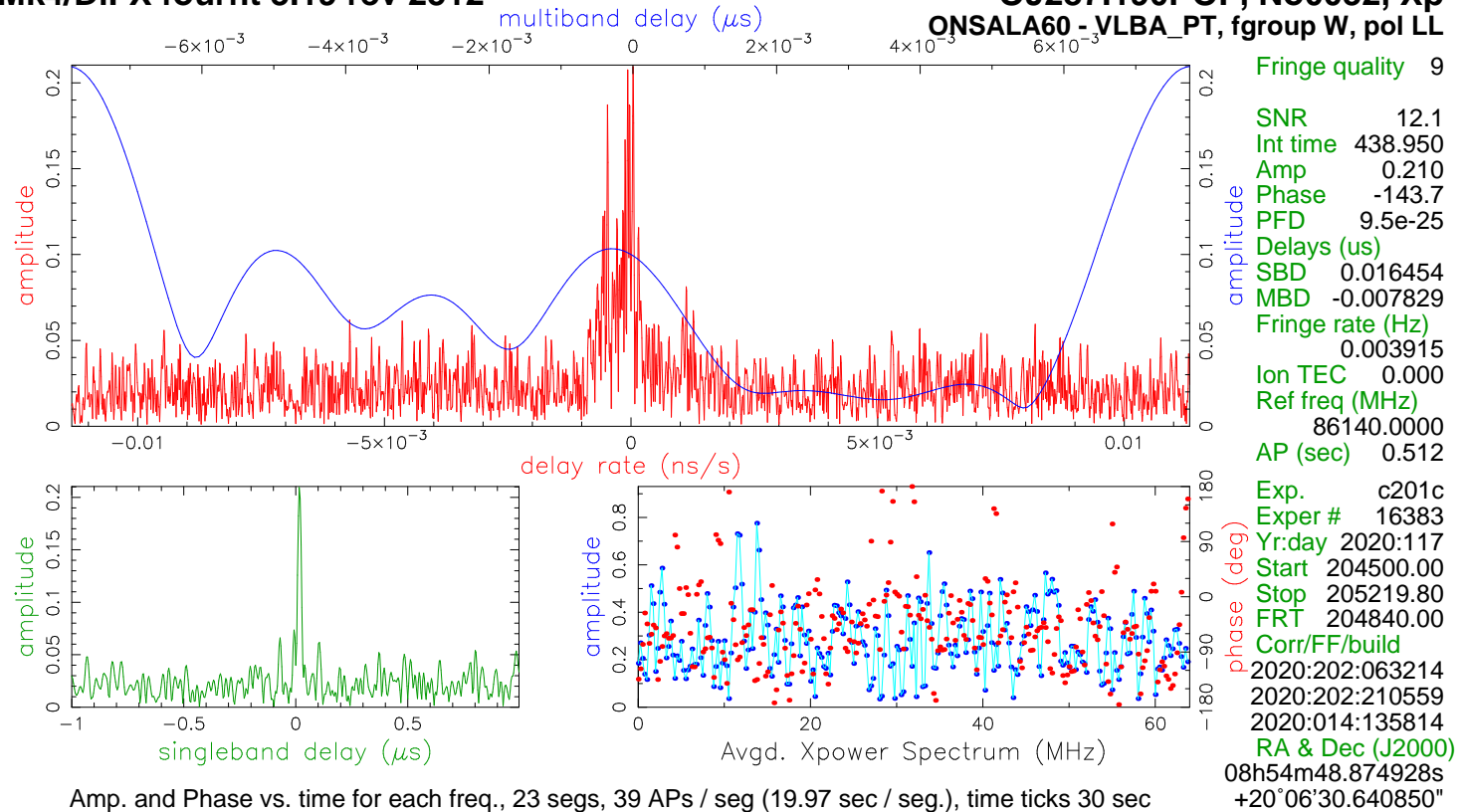
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



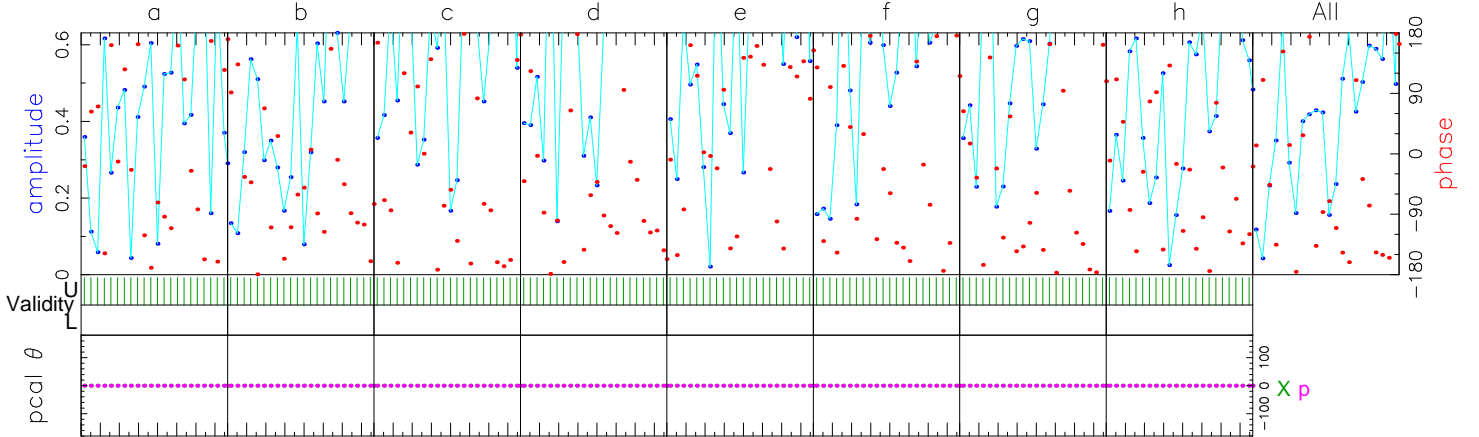
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.0	-98.5	176.6	-124.3	-178.5	-109.8	-162.1	-81.7	Phase	-141.7
	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	Ampl.	0.1
	152.6	195.8	252.6	254.1	253.6	20.5	252.1	248.1	Sbd box	252.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.88030431586E+03		Apriori delay (usec)		7.88033049356E+03		Resid mbdelay (usec)		5.07230E-03	+/- 1.5E-04
Sband delay (usec)	7.88031150606E+03		Apriori clock (usec)		2.0691816E+01		Resid sbdelay (usec)		-1.89875E-02	+/- 1.2E-03
Phase delay (usec)	7.88033048899E+03		Apriori clockrate (us/s)		3.2700001E-07		Resid phdelay (usec)		-4.57054E-06	+/- 5.1E-07
Delay rate (us/s)	-1.71799356938E+00		Apriori rate (us/s)		-1.71799368083E+00		Resid rate (us/s)		1.11453E-07	+/- 2.0E-09
Total phase (deg)	115.9		Apriori accel (us/s/s)		-3.26102553554E-05		Resid phase (deg)		-141.7	+/- 16.0

RMS Theor. Amplitude 0.127 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 61.4 38.3 Search (2048X32) 0.125 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 100.3 66.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 43.1 22.6 Inc. seg. avg. 0.186 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 42.0 39.4 Inc. frq. avg. 0.144 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 239.7 el 40.6 pa 29.7 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10414.323 986.391 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xo..190POF Output file: /Exps/c201c/v1/1234/No0032/Xo.W.229.190POF

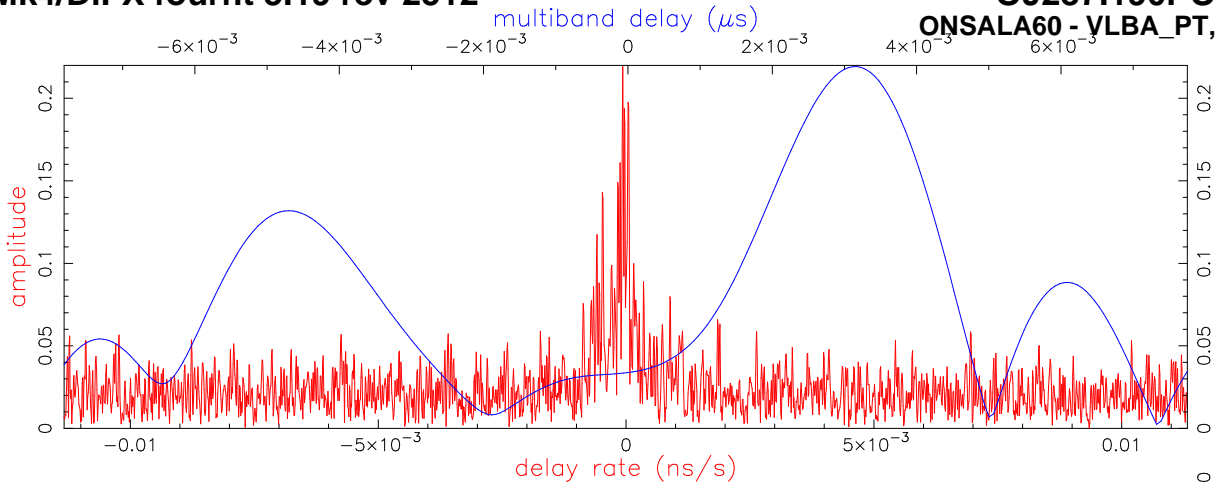


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

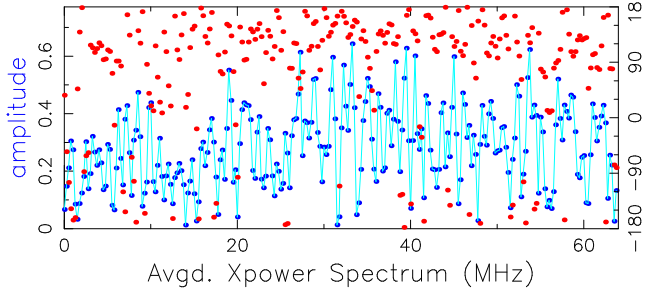
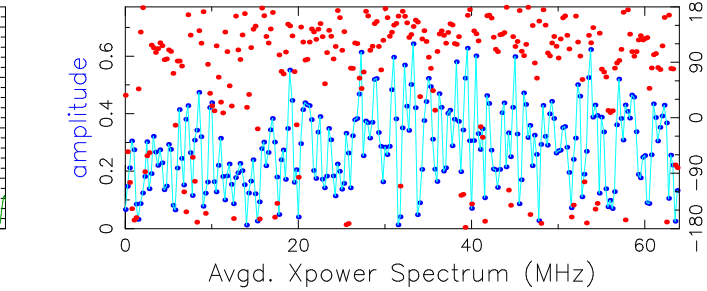
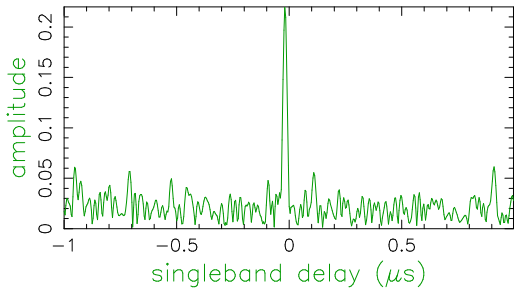


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-153.7	-96.1	-164.3	-114.3	157.3	-153.2	-160.2	-96.2	Phase	-143.7
	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	261.1	261.5	261.7	262.1	261.8	261.7	261.4	263.4	Sbd box	261.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		5.24887287971E+03		Apriori delay (usec)	5.24884945839E+03		Resid mbdelay (usec)	-7.82868E-03	+/-	9.0E-05
Sband delay (usec)		5.24886591214E+03		Apriori clock (usec)	2.3500267E+01		Resid sbdelay (usec)	1.64538E-02	+/-	7.1E-04
Phase delay (usec)		5.24884945375E+03		Apriori clockrate (us/s)	3.2400002E-07		Resid phdelay (usec)	-4.63400E-06	+/-	3.1E-07
Delay rate (us/s)		-1.72334753614E+00		Apriori rate (us/s)	-1.72334758158E+00		Resid rate (us/s)	4.54441E-08	+/-	1.2E-09
Total phase (deg)			-19.4	Apriori accel (us/s/s)	-1.70046306097E-05		Resid phase (deg)	-143.7	+/-	9.5

	RMS	Theor.	Amplitude	0.210 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	81.2	22.8	Search (2048X32)	0.208	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	133.8	39.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	40.3	13.4	Inc. seg. avg.	0.383	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	31.9	23.5	Inc. frq. avg.	0.240	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

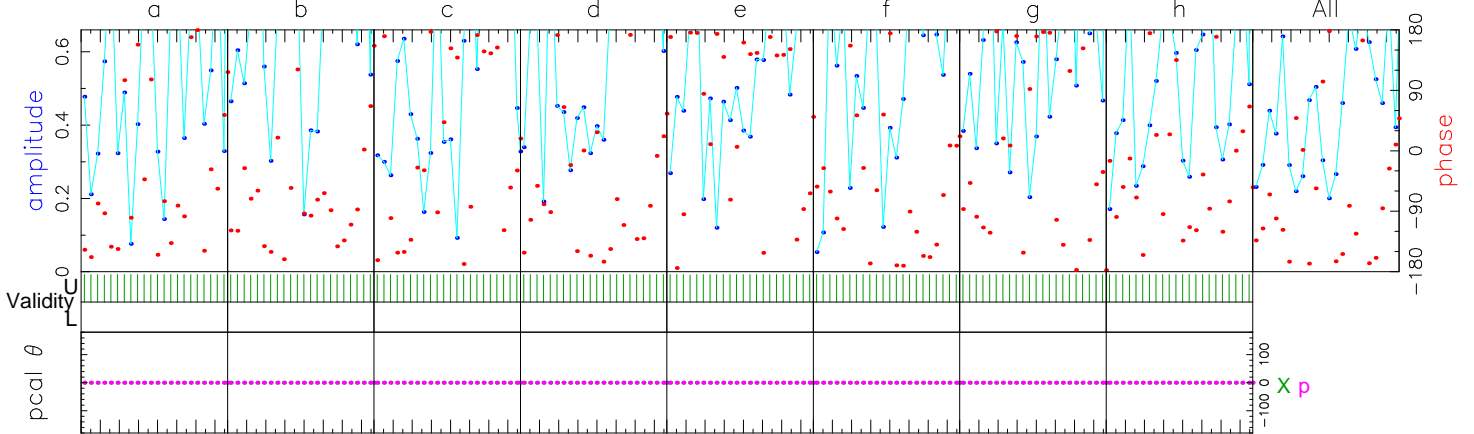


Fringe quality 9
 SNR 12.6
 Int time 438.950
 Amp 0.220
 Phase -119.5
 PFD 1.1e-27
 Delays (us)
 SBD -0.018773
 MBD 0.003158
 Fringe rate (Hz)
 -0.005838
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210603
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

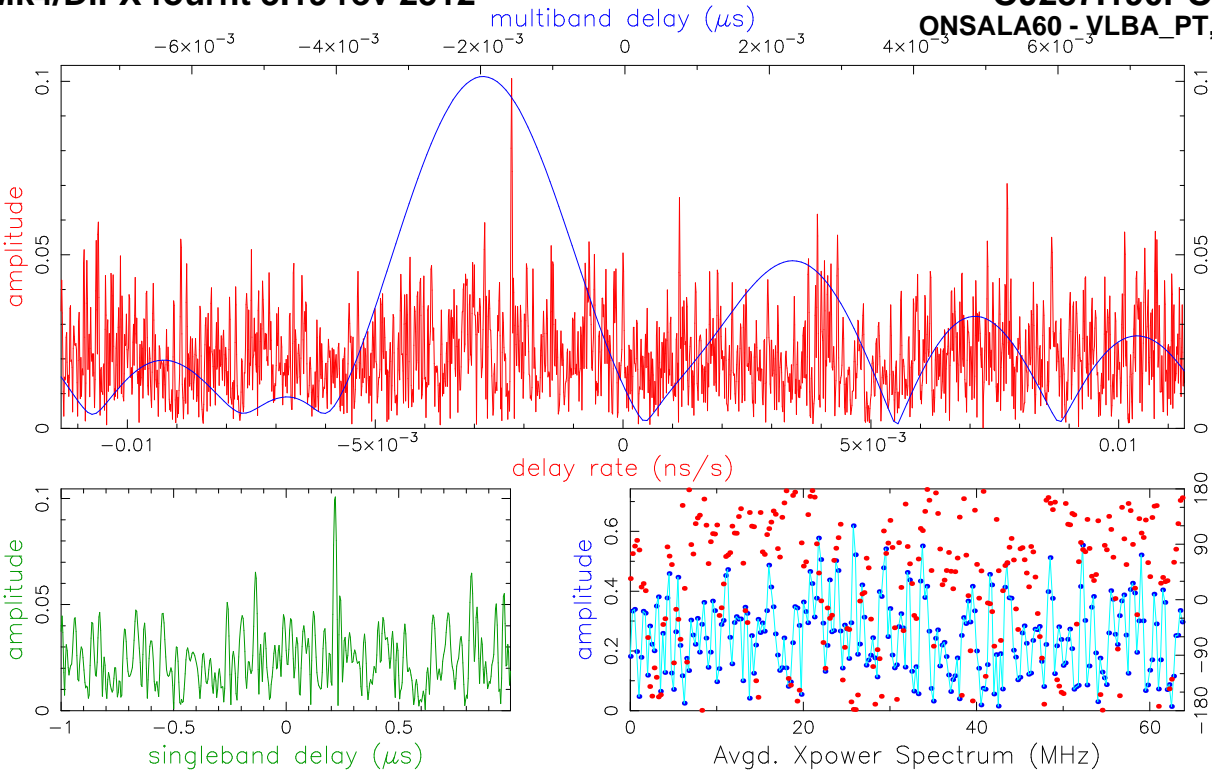


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-127.7	-89.0	-147.3	-100.4	-176.3	-103.5	-152.0	-52.2	Phase	-119.5
	0.2	0.4	0.3	0.3	0.3	0.2	0.3	0.2	Ampl.	0.3
	252.7	251.7	252.3	253.0	252.9	253.3	253.4	284.4	Sbd box	252.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	5.24883699176E+03		Apriori delay (usec)		5.24884945839E+03		Resid mbdelay (usec)		3.15837E-03	+/- 8.6E-05
Sband delay (usec)	5.24883068514E+03		Apriori clock (usec)		2.3500267E+01		Resid sbdelay (usec)		-1.87733E-02	+/- 6.8E-04
Phase delay (usec)	5.24884945453E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		-3.85294E-06	+/- 2.9E-07
Delay rate (us/s)	-1.72334764935E+00		Apriori rate (us/s)		-1.72334758158E+00		Resid rate (us/s)		-6.77686E-08	+/- 1.2E-09
Total phase (deg)	4.8		Apriori accel (us/s/s)		-1.70046306097E-05		Resid phase (deg)		-119.5	+/- 9.1

ph/seg (deg) 73.5 21.8 Amplitude 0.220 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 128.5 38.1 Search (2048X32) 0.214 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.2 12.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.2 22.4 Inc. seg. avg. 0.414 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 239.7 el 40.6 pa 29.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.192.190POF

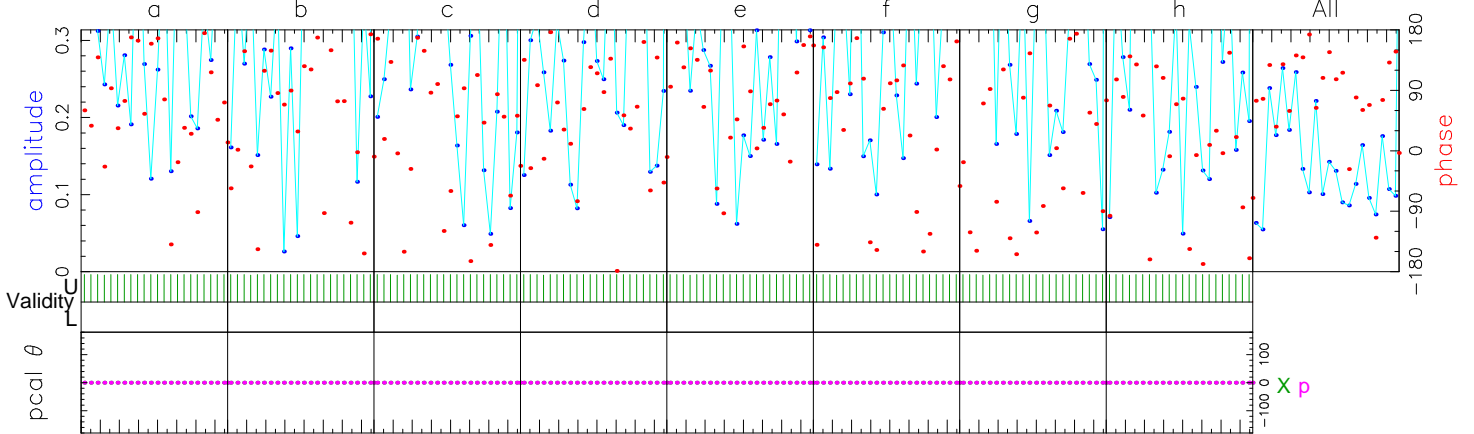
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Xp
ONSALA60 - VLBA_PT, fgroup W, pol LR



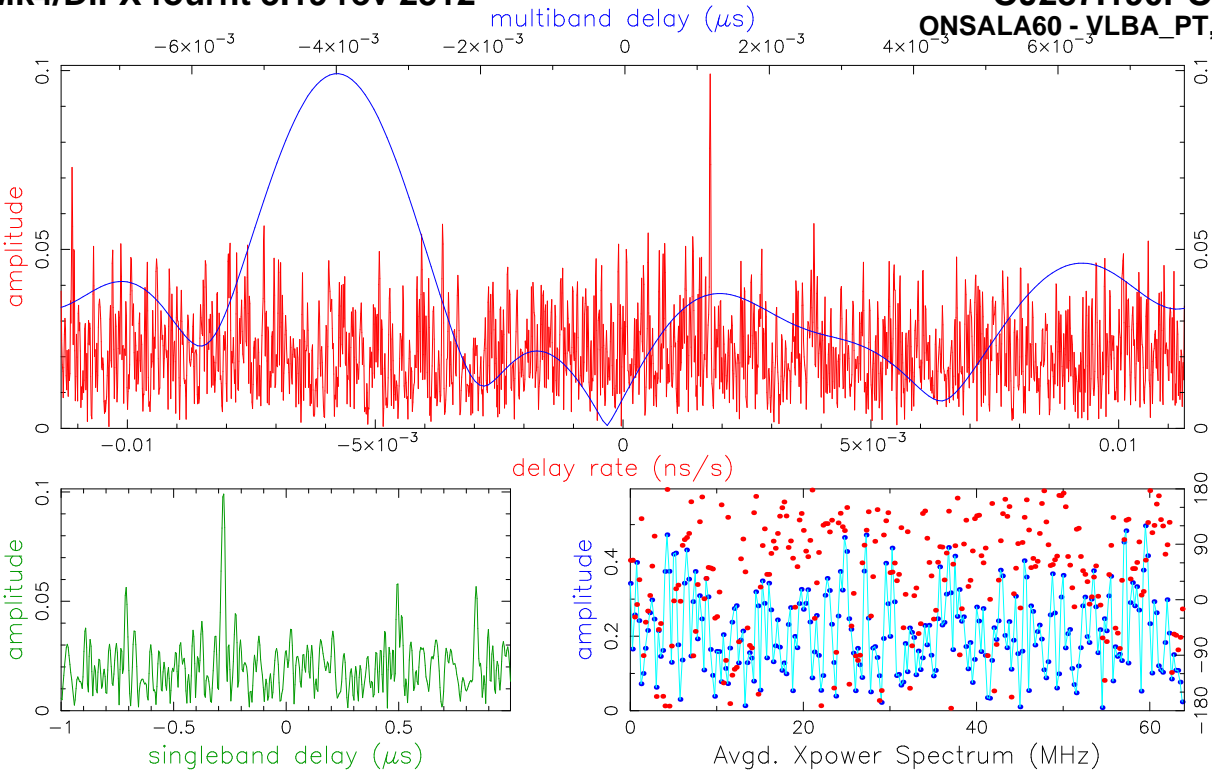
Fringe quality 0
SNR 5.9
Int time 438.950
Amp 0.105
Phase 103.3
PFD 6.2e-01
Delays (us)
SBD 0.217067
MBD -0.002088
Fringe rate (Hz)
-0.193614
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210607
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	77.8	128.2	112.3	85.6	98.8	127.5	166.1	96.8	Phase	103.3
	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	Ampl.	0.1
	286.5	300.5	180.6	294.1	165.4	227.4	250.7	345.3	Sbd box	312.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.24906612074E+03		Apriori delay (usec)		5.24884945839E+03		Resid mbdelay (usec)		-2.08765E-03	+/- 1.8E-04
Sband delay (usec)	5.24906652589E+03		Apriori clock (usec)		2.3500267E+01		Resid sbdelay (usec)		2.17067E-01	+/- 1.5E-03
Phase delay (usec)	5.24884946172E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		3.33209E-06	+/- 6.3E-07
Delay rate (us/s)	-1.72334982924E+00		Apriori rate (us/s)		-1.72334758158E+00		Resid rate (us/s)		-2.24766E-06	+/- 2.5E-09
Total phase (deg)	227.7		Apriori accel (us/s/s)		-1.70046306097E-05		Resid phase (deg)		103.3	+/- 19.4

ph/seg (deg) 52.7 46.6 Search (2048X32) 0.105 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.1 81.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 32.3 27.5 Inc. seg. avg. 0.107 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.5 48.0 Inc. frq. avg. 0.098 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 239.7 el 40.6 pa 29.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.206.190POF

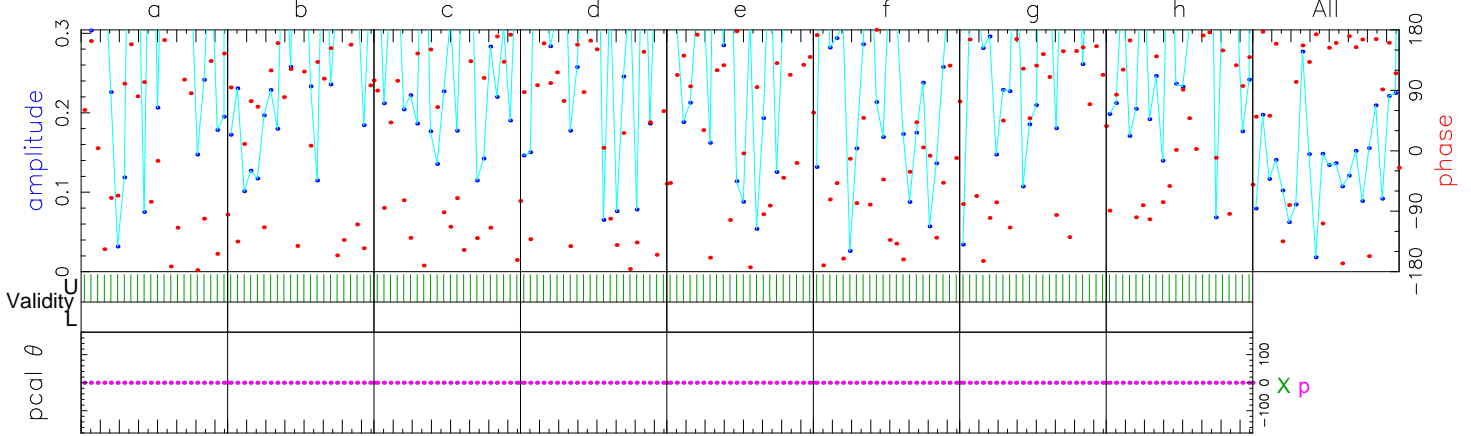


Fringe quality 0

SNR 5.8
Int time 438.950
Amp 0.101
Phase 159.0
PFD 8.8e-01
Delays (us)
SBD -0.278948
MBD -0.004044
Fringe rate (Hz) 0.151543
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

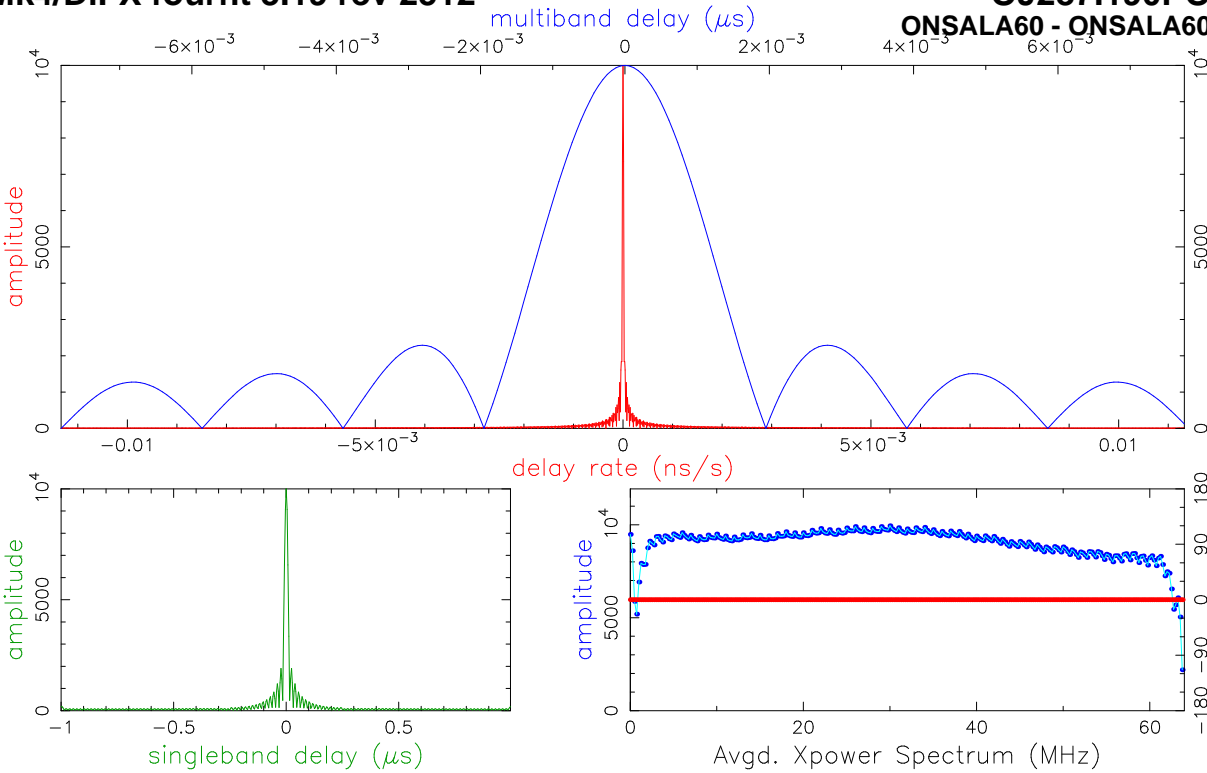
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210610
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



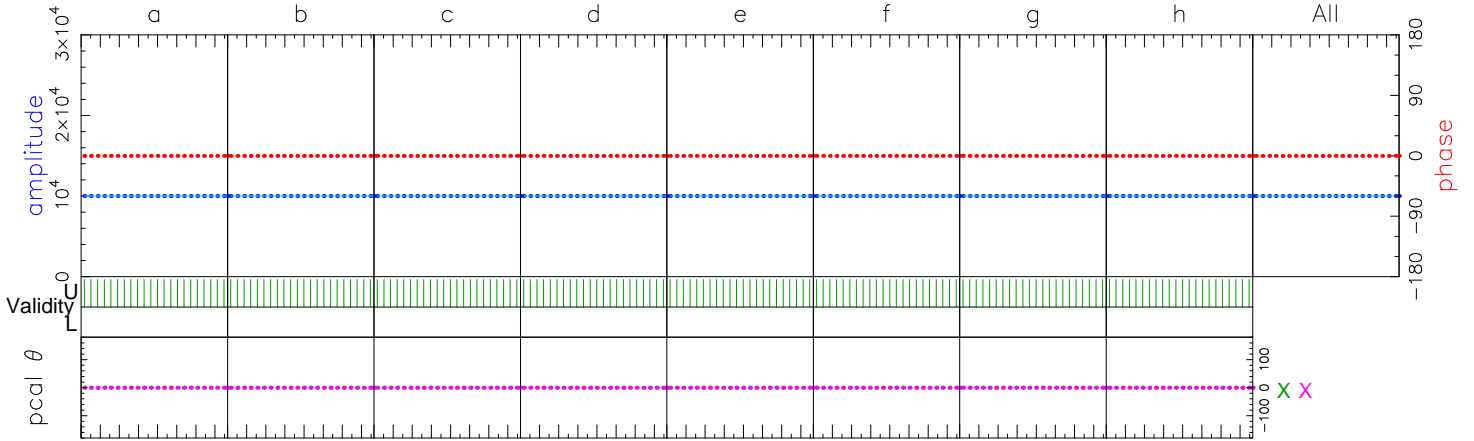
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	5.24856416439E+03		Apriori delay (usec)		5.24884945839E+03		Resid mbdelay (usec)		-4.04399E-03	+/- 1.9E-04
Sband delay (usec)	5.24857051089E+03		Apriori clock (usec)		2.3500267E+01		Resid sbdelay (usec)		-2.78948E-01	+/- 1.5E-03
Phase delay (usec)	5.24884946351E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		5.12697E-06	+/- 6.4E-07
Delay rate (us/s)	-1.72334582232E+00		Apriori rate (us/s)		-1.72334758158E+00		Resid rate (us/s)		1.75926E-06	+/- 2.5E-09
Total phase (deg)	283.3		Apriori accel (us/s/s)		-1.70046306097E-05		Resid phase (deg)		159.0	+/- 19.9

ph/seg (deg) 54.6 47.7 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.0 83.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.3 28.2 Inc. seg. avg. 0.103 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.5 49.1 Inc. frq. avg. 0.103 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 239.7 el 40.6 pa 29.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.222.190POF



Fringe quality 9
 SNR 573455.8
 Int time 439.749
 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. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210600
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



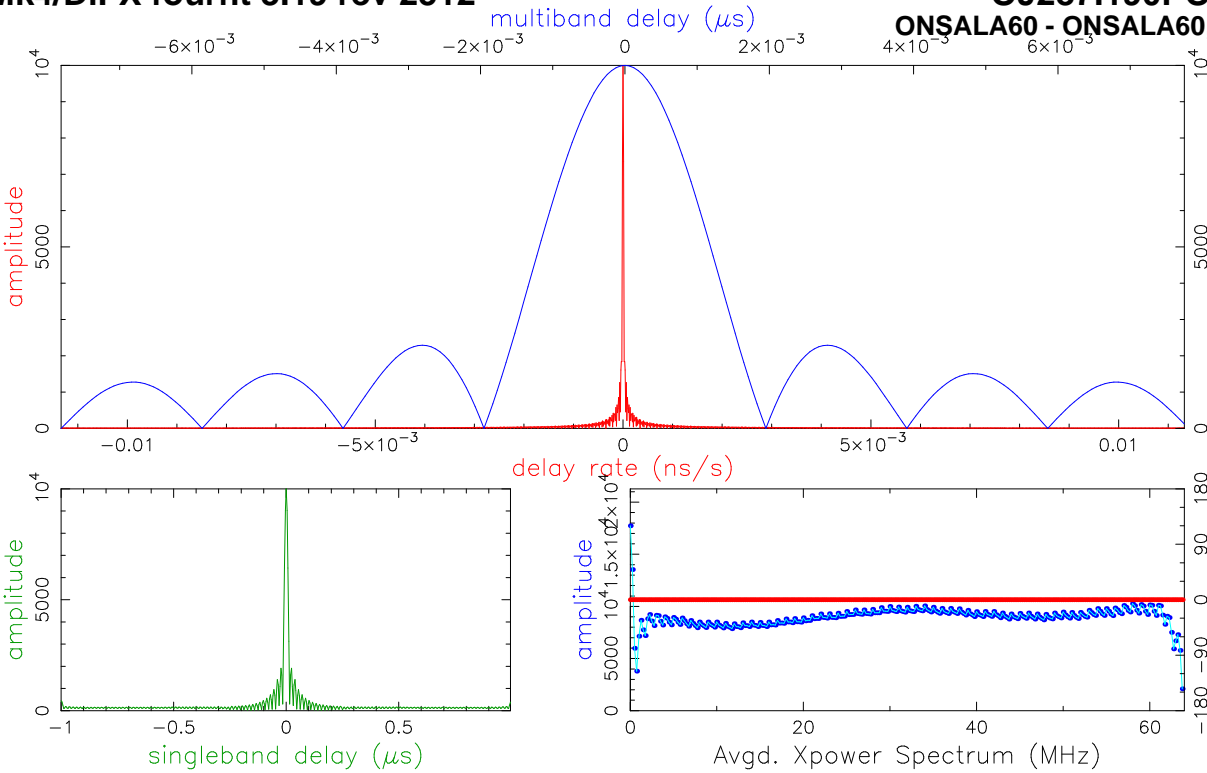
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-8.01024774779E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-8.01025E-20	+/-	6.4E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.5E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.001 +/- 0.017	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(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	10000.001	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

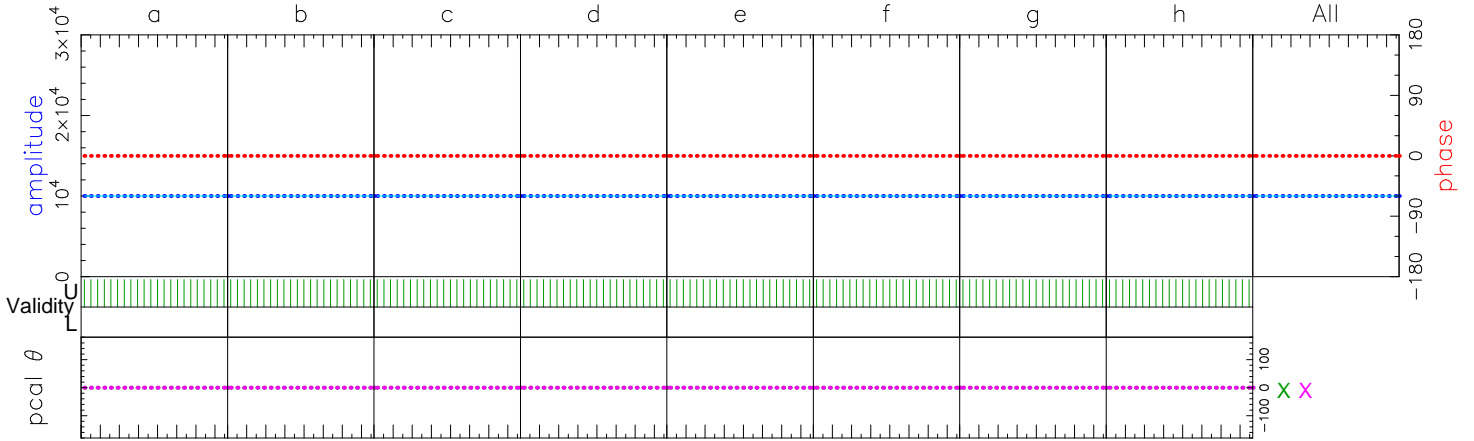
X: az 239.7 el 40.6 pa 29.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XX..190POF Output file: /Exps/c201c/v1/1234/No0032/XX.W.180.190POF



Fringe quality 9
 SNR 573455.8
 Int time 439.749
 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. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210604
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

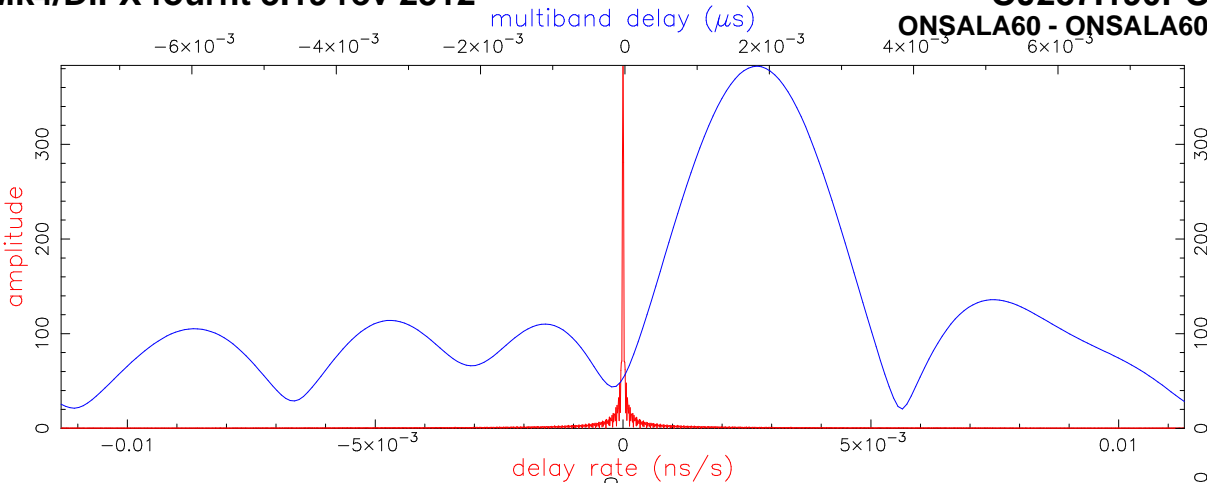
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	Tracks	

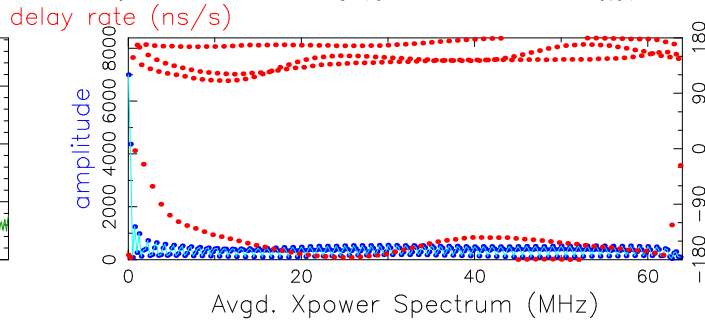
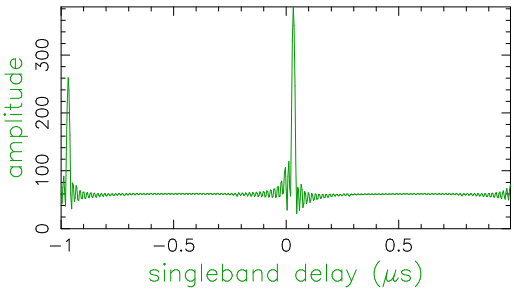
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-4.90442500160E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.90443E-20	+/-	6.4E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.5E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.001 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 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 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 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 239.7 el 40.6 pa 29.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XX..190POF Output file: /Exps/c201c/v1/1234/No0032/XX.W.196.190POF



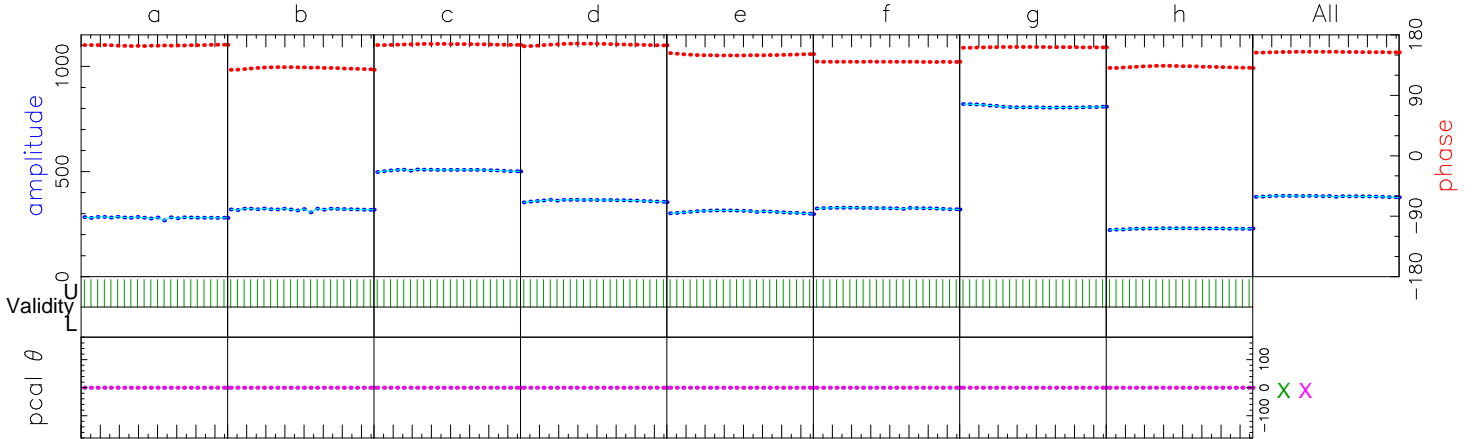
Fringe quality 6

SNR 21986.5
 Int time 439.749
 Amp 383.404
 Phase 154.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.031849
 MBD 0.001863
 Fringe rate (Hz)
 -0.000004
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

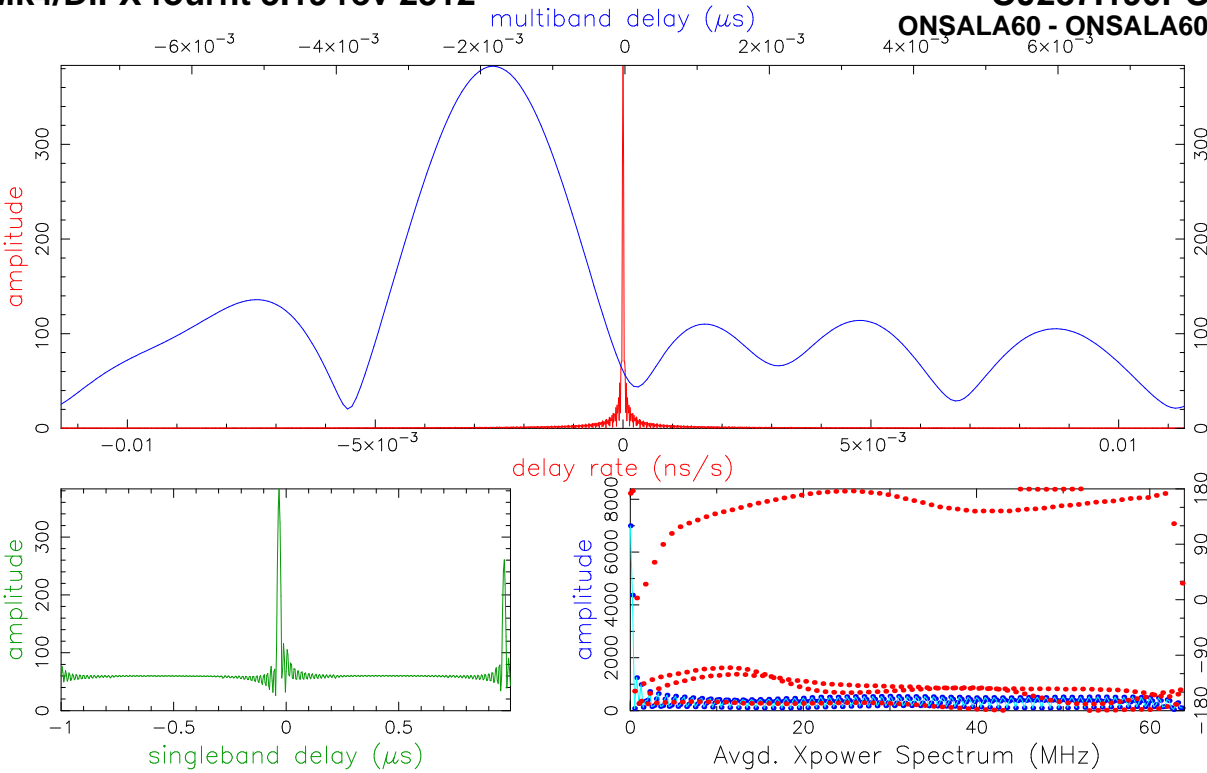


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	164.3	130.4	165.8	165.4	150.2	139.8	161.5	132.3	Phase	154.3
	280.8	320.2	506.1	362.1	309.0	325.7	808.9	228.6	Ampl.	392.7
	264.1	266.2	265.2	265.3	265.7	265.3	264.9	264.8	Sbd box	265.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.31130937500E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.86309E-03	+/-	4.9E-08
Sband delay (usec)	3.18487500000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.18488E-02	+/-	3.9E-07
Phase delay (usec)	4.97661320460E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.97661E-06	+/-	1.7E-10
Delay rate (us/s)	-4.10963419359E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-4.10963E-11	+/-	6.6E-13
Total phase (deg)	154.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	154.3	+/-	0.0

ph/seg (deg)	0.4	0.0	RMS	383.404 +/- 0.017	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.6	0.0	Theor.	383.404 +/- 0.017	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.8	0.0	Search (2048X32)	380.173	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	45.5	0.0	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011 0.011
			Inc. seg. avg.	382.331	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00 0.00
			Inc. frq. avg.	392.674				

X: az 239.7 el 40.6 pa 29.7 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XX..190POF Output file: /Exps/c201c/v1/1234/No0032/XX.W.211.190POF

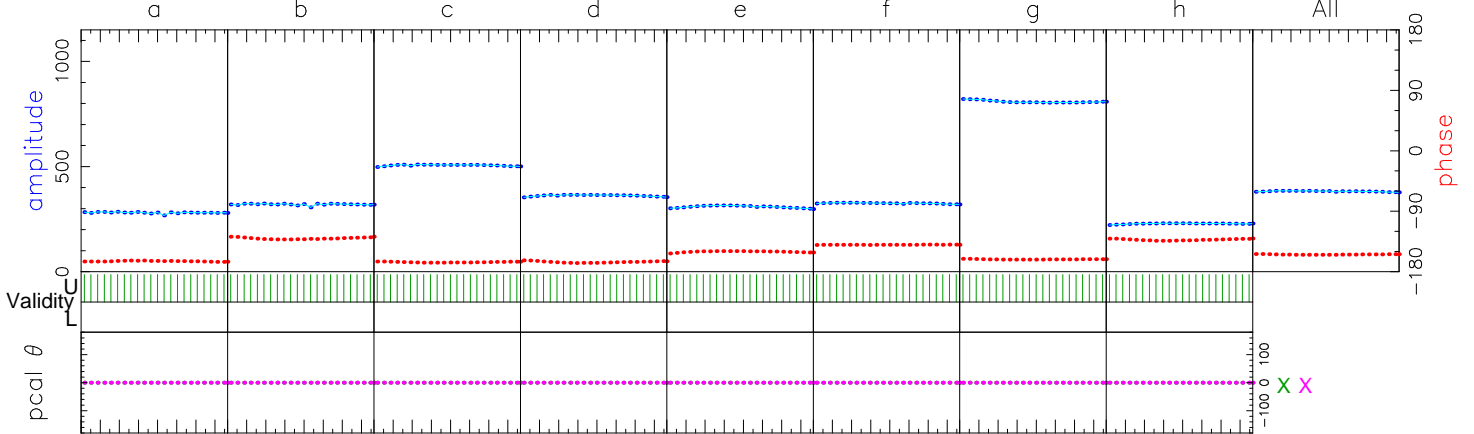


Fringe quality 6

SNR 21986.5
 Int time 439.749
 Amp 383.404
 Phase -154.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.031849
 MBD -0.001863
 Fringe rate (Hz) 0.000004
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210611
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-164.3	-130.4	-165.8	-165.4	-150.2	-139.8	-161.5	-132.3	Phase	-154.3
	280.8	320.2	506.1	362.1	309.0	325.7	808.9	228.6	Ampl.	392.7
	249.9	247.8	248.8	248.7	248.3	248.7	249.1	249.2	Sbd box	248.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-3.31130937500E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.86309E-03	+/- 4.9E-08
Sband delay (usec)	-3.18487500000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-3.18488E-02	+/- 3.9E-07
Phase delay (usec)	-4.97661320456E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.97661E-06	+/- 1.7E-10
Delay rate (us/s)	4.10963419359E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		4.10963E-11	+/- 6.6E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-154.3	+/- 0.0

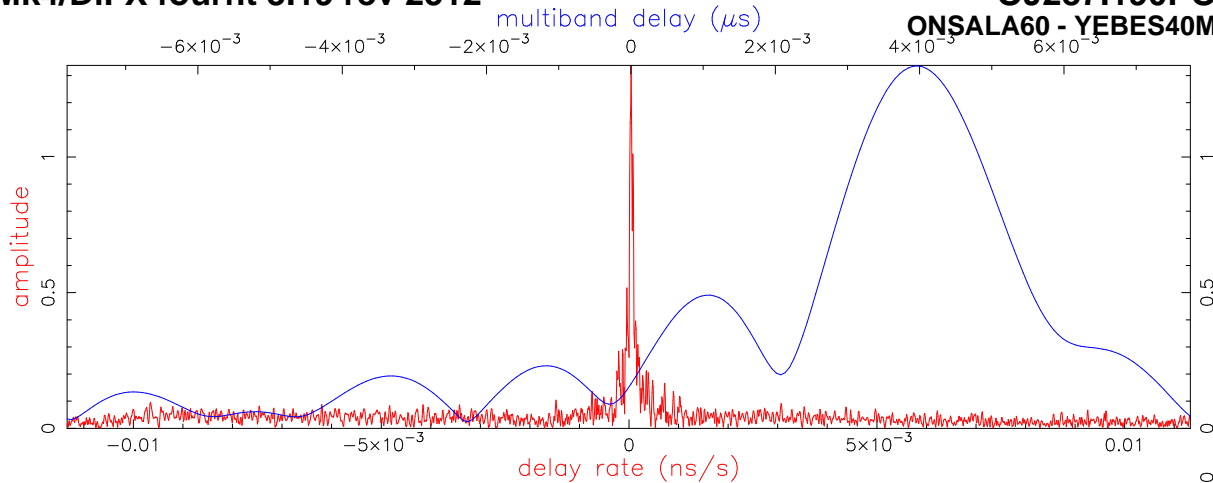
ph/seg (deg) 0.4 0.0
 amp/seg (%) 0.6 0.0
 ph/frq (deg) 16.8 0.0
 amp/frq (%) 45.5 0.0

RMS Theor. Amplitude 383.404 +/- 0.017
 Search (2048X32) 380.173
 Interp. 0.000
 Inc. seg. avg. 382.331
 Inc. frq. avg. 392.674

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

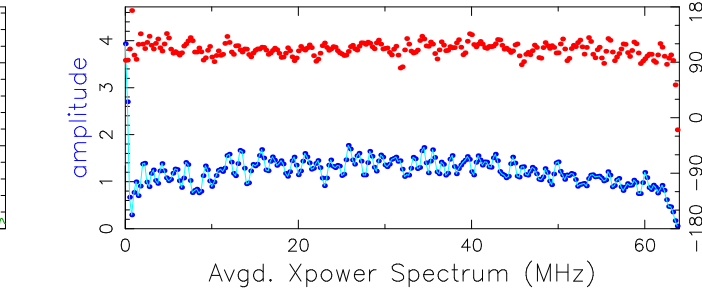
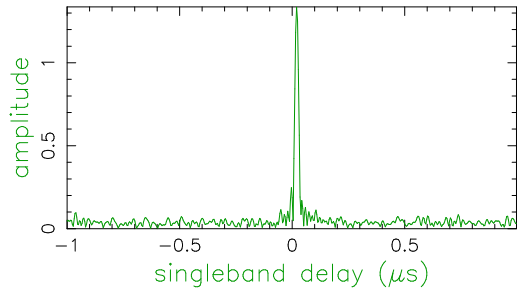
sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator



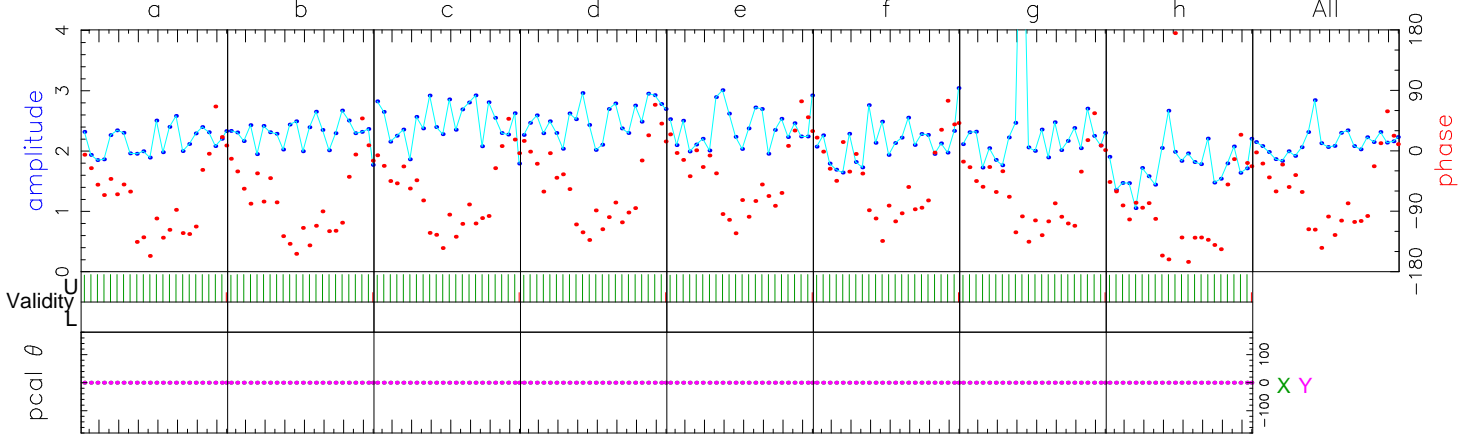
Fringe quality 3

SNR 76.2
 Int time 434.198
 Amp 1.337
 Phase -63.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.020087
 MBD 0.003977
 Fringe rate (Hz)
 0.003874
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210601
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



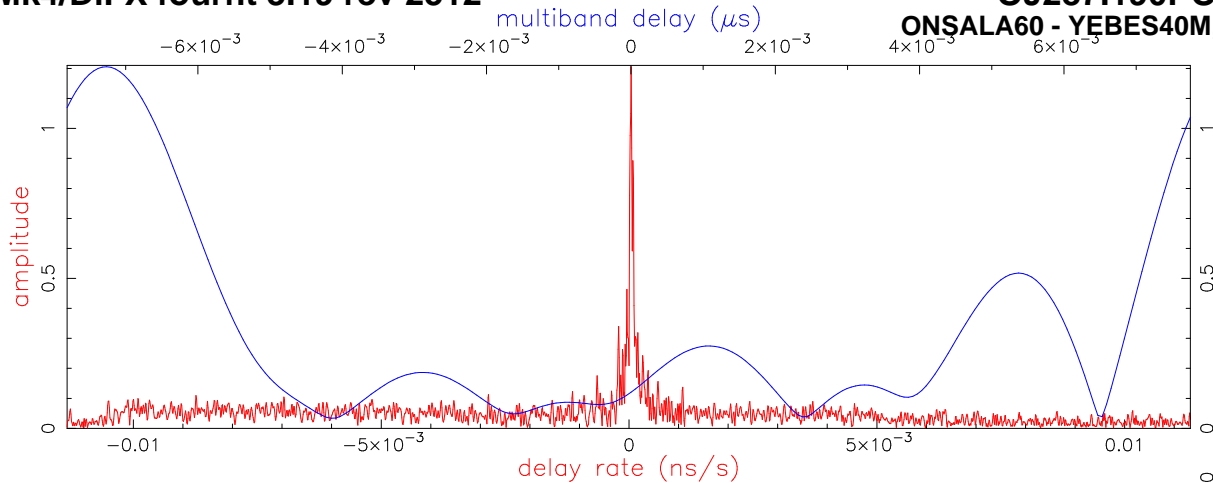
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.2	-77.1	-65.9	-52.5	-37.2	-43.6	-68.6	-105.5		-63.9
	1.3	1.5	1.6	1.4	1.5	1.3	1.6	1.1	Ampl.	1.4
	262.1	262.4	261.9	262.3	262.0	262.0	262.0	260.8	Sbd box	262.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	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	

Group delay (usec)(sbd)	-4.11602583671E+03	Apriori delay (usec)	-4.11604543871E+03	Resid mbdelay (usec)	3.97700E-03	+/-	1.4E-05
Sband delay (usec)	-4.11602535146E+03	Apriori clock (usec)	2.8811340E+01	Resid sbdelay (usec)	2.00872E-02	+/-	1.1E-04
Phase delay (usec)	-4.11604544078E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-2.06054E-06	+/-	4.8E-08
Delay rate (us/s)	8.28837863667E-04	Apriori rate (us/s)	8.28792895058E-04	Resid rate (us/s)	4.49686E-08	+/-	1.9E-10
Total phase (deg)	-96.6	Apriori accel (us/s/s)	2.94935733339E-05	Resid phase (deg)	-63.9	+/-	1.5

ph/seg (deg)	53.6	Theor.	3.6	Amplitude	1.331 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	62.2		6.3	Search (2048X32)	1.331	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.3		2.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	14.1		3.7	Inc. seg. avg.	2.140	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1.409	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

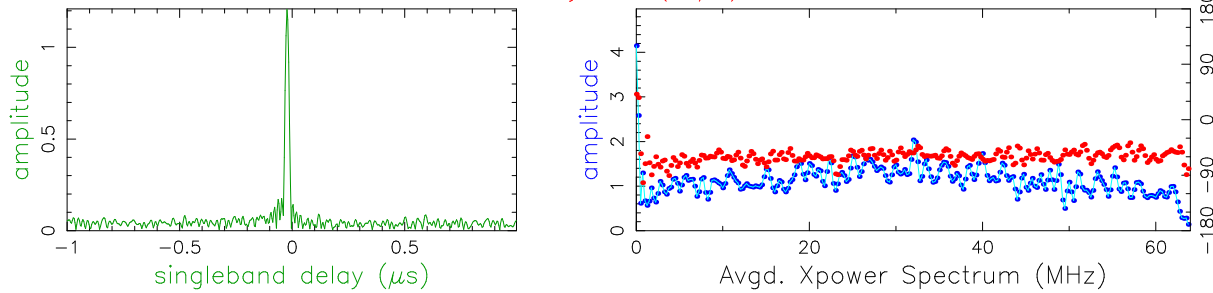
X: az 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.182.190POF



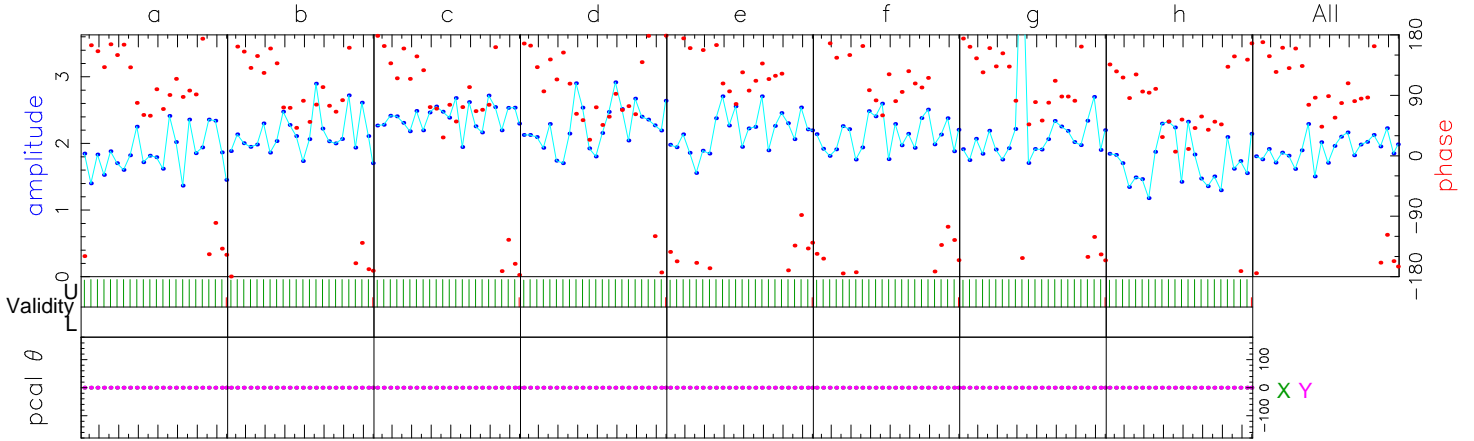
Fringe quality 3

SNR 69.0
 Int time 434.198
 Amp 1.210
 Phase 125.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.022576
 MBD -0.007247
 Fringe rate (Hz)
 0.003921
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210606
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

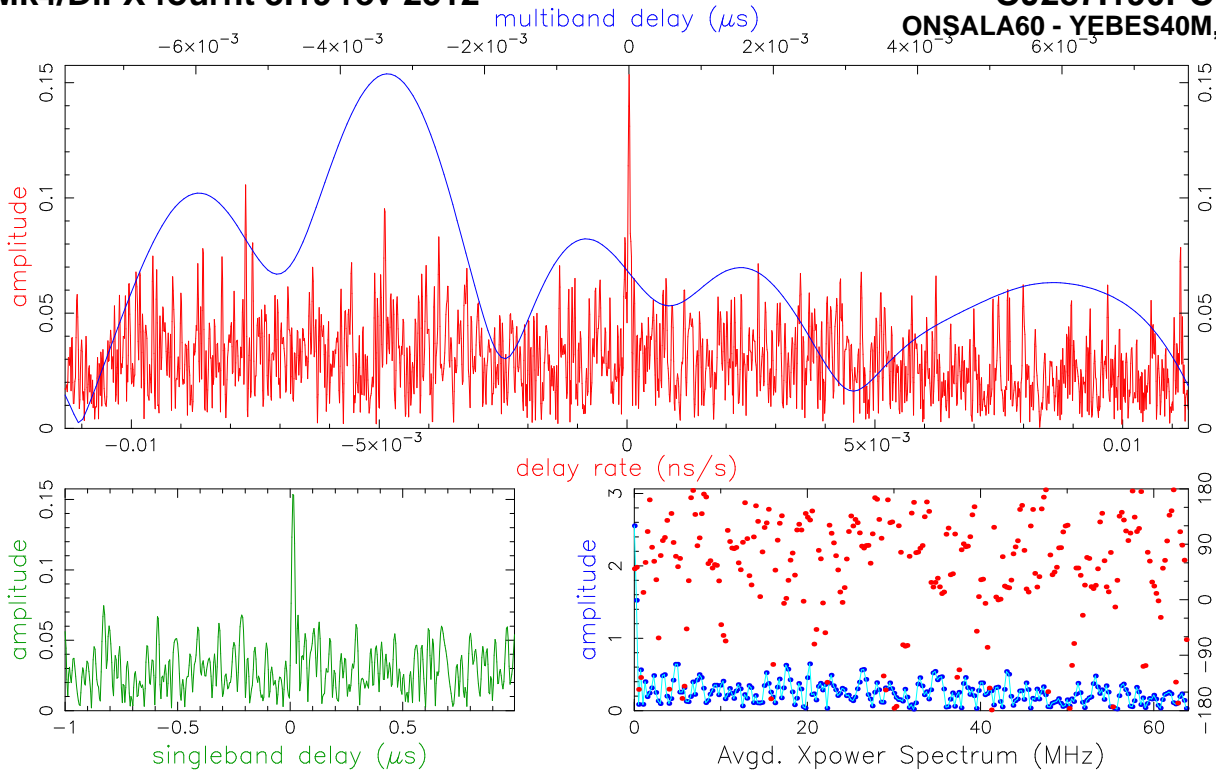
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All				
	132.5	120.9	116.2	105.0	154.0	146.0	139.7	82.8	Phase	125.3				
	1.1	1.3	1.5	1.4	1.4	1.3	1.3	1.1	Ampl.	1.3				
	251.9	250.9	251.2	251.2	251.6	251.0	249.9	250.6	Sbd box	251.2				
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	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	Manl 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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks					
									Chan ids					
									Tracks					
Group delay (usec)(sbd)	-4.11606831105E+03								Apriori delay (usec)	-4.11604543871E+03	Resid mbdelay (usec)	-7.24734E-03	+/-	1.6E-05
Sband delay (usec)	-4.11606801496E+03								Apriori clock (usec)	2.8811340E+01	Resid sbdelay (usec)	-2.25763E-02	+/-	1.2E-04
Phase delay (usec)	-4.11604543467E+03								Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	4.04038E-06	+/-	5.4E-08
Delay rate (us/s)	8.28838413508E-04								Apriori rate (us/s)	8.28792895058E-04	Resid rate (us/s)	4.55185E-08	+/-	2.1E-10
Total phase (deg)			92.6						Apriori accel (us/s/s)	2.94935733339E-05	Resid phase (deg)	125.3	+/-	1.7

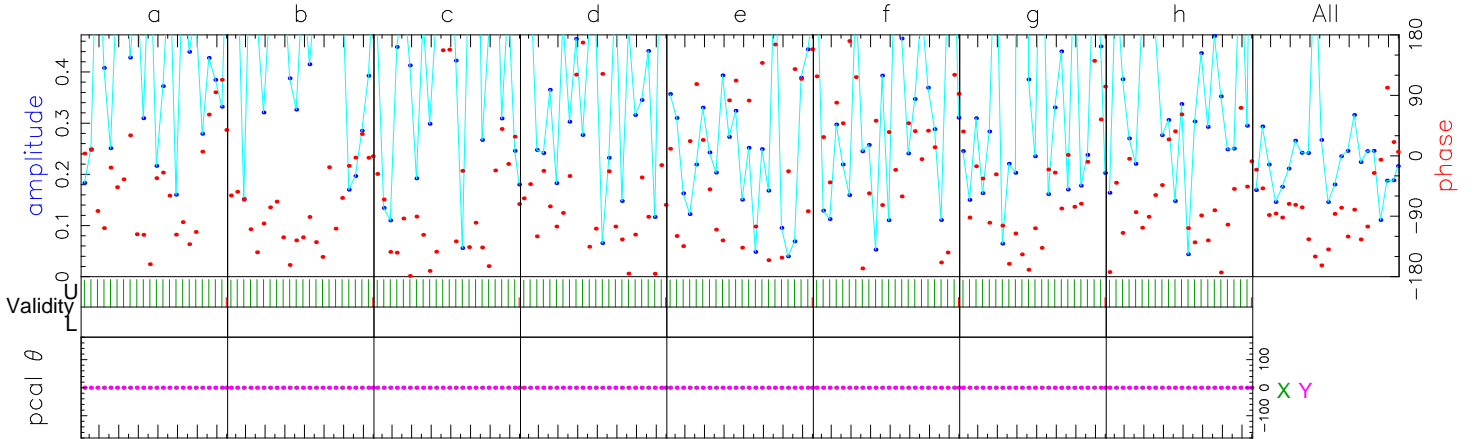
	RMS	Theor.	Amplitude	1.210 +/- 0.018	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.4	4.0	Search (2048X32)	1.200	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	60.5	7.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	25.3	2.3	Inc. seg. avg.	1.913	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.5	4.1	Inc. frq. avg.	1.292	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.200.190POF



Fringe quality 9
SNR 9.0
Int time 434.198
Amp 0.158
Phase -92.6
PFD 1.1e-10
Delays (us)
SBD 0.013602
MBD -0.003279
Fringe rate (Hz) 0.003466
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210609
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

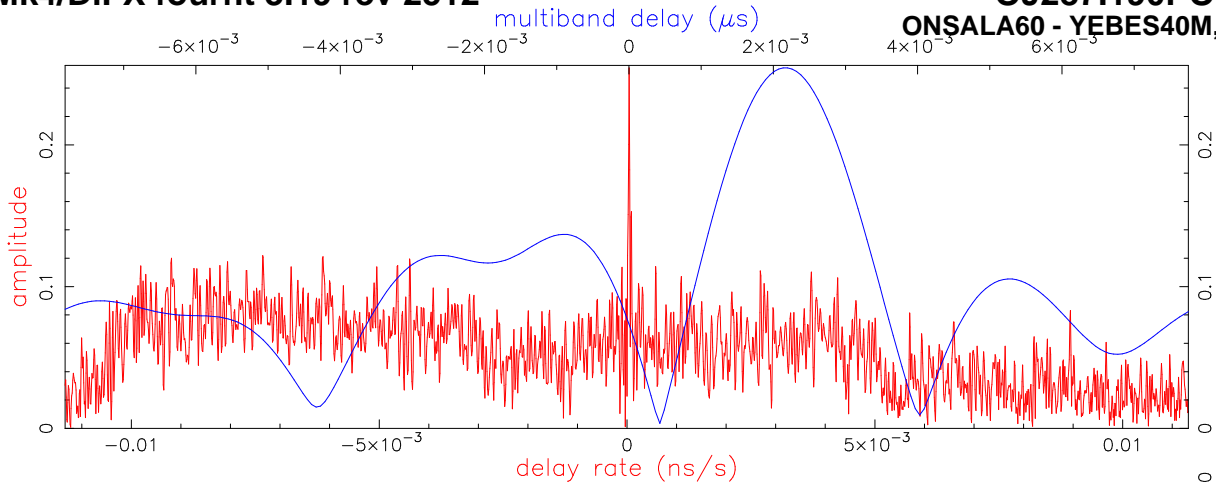


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-67.7	-86.9	-121.2	-85.0	167.6	44.6	-120.0	-68.3		Phase
	0.2	0.3	0.2	0.2	0.1	0.1	0.3	0.2		Ampl.
	260.6	260.4	260.0	259.7	230.9	150.4	44.4	259.3		Sbd box
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		APs used
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	-4.11603309308E+03		Apriori delay (usec)		-4.11604543871E+03		Resid mbdelay (usec)		-3.27937E-03	+/- 1.2E-04
Sband delay (usec)	-4.11603183671E+03		Apriori clock (usec)		2.8811340E+01		Resid sbdelay (usec)		1.36020E-02	+/- 9.6E-04
Phase delay (usec)	-4.11604544170E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		-2.98489E-06	+/- 4.1E-07
Delay rate (us/s)	8.28833126251E-04		Apriori rate (us/s)		8.28792895058E-04		Resid rate (us/s)		4.02312E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.94935733339E-05		Resid phase (deg)		-92.6	+/- 12.8

ph/seg (deg) 58.9 30.6 Search (2048X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 81.5 53.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 72.6 18.1 Inc. seg. avg. 0.207 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 58.3 31.5 Inc. frq. avg. 0.182 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 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.216.190POF

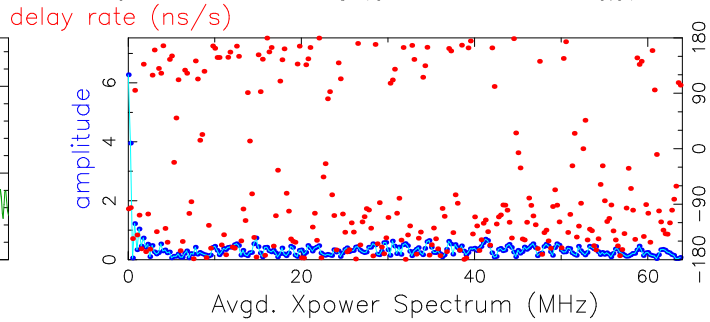
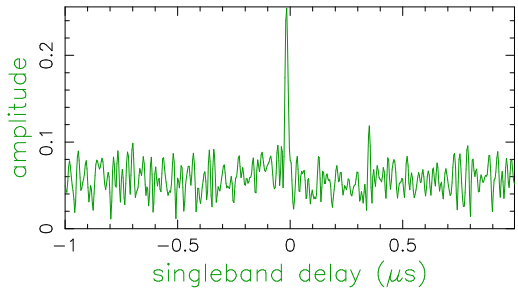
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, XY
ONŞALA60 - YEŞES40M, fgroup W, pol RL



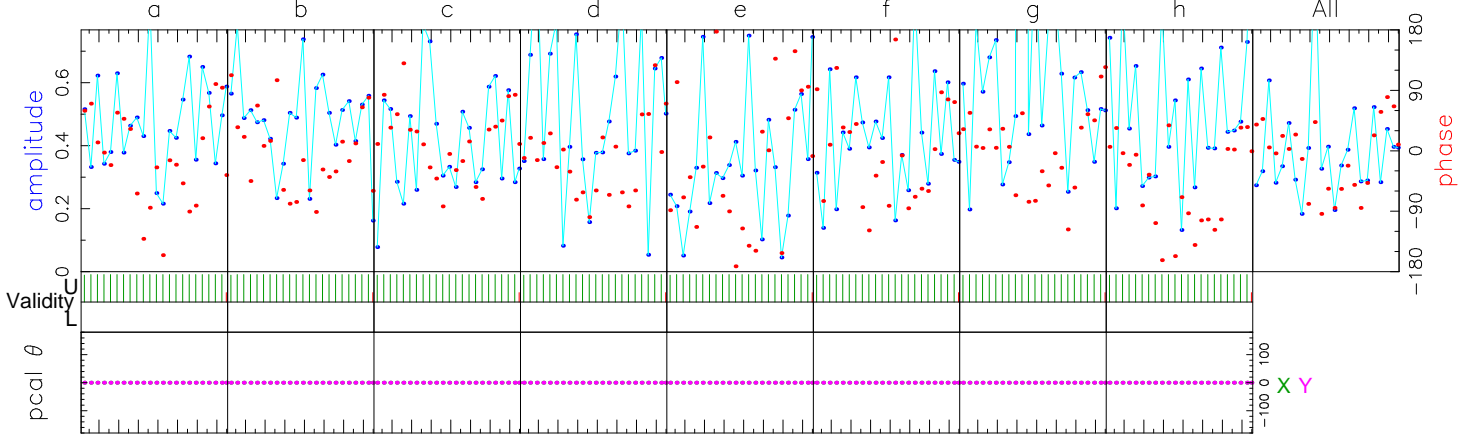
Fringe quality 7

SNR 14.6
Int time 434.198
Amp 0.256
Phase 0.7
PFD 2.0e-39
Delays (us)
SBD -0.016593
MBD 0.002137
Fringe rate (Hz)
0.003933
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

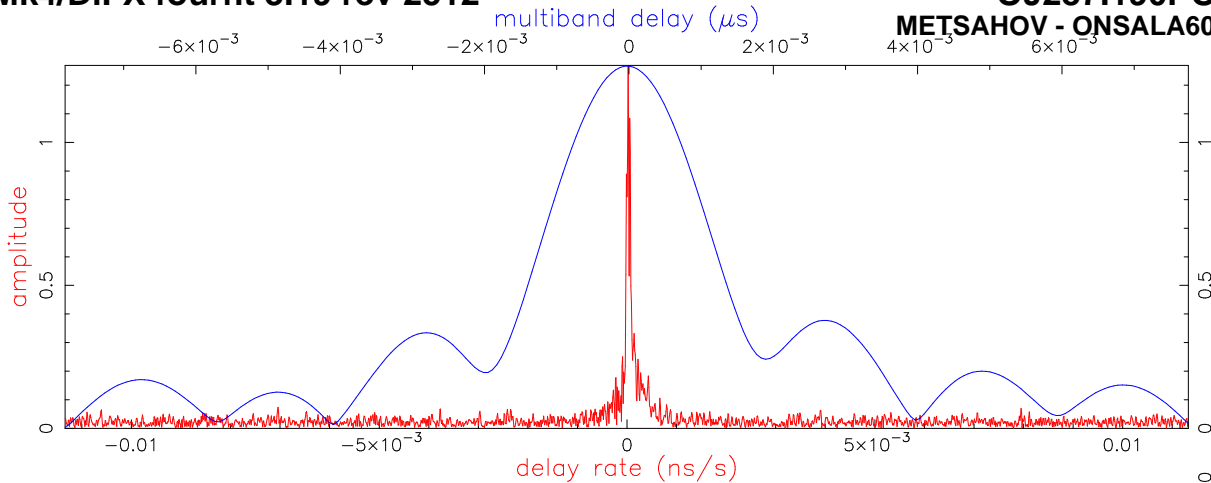


Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210612
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

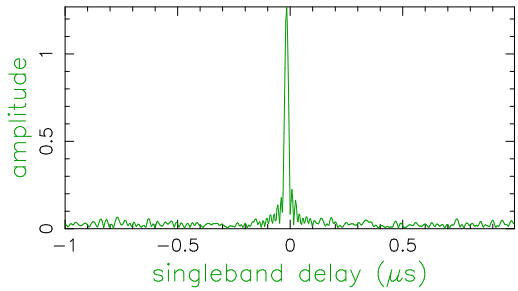


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		252.8
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.11605892696E+03				-4.11604543871E+03				2.13675E-03	+/- 7.4E-05
Sband delay (usec)	-4.11606203146E+03				2.8811340E+01				-1.65928E-02	+/- 5.9E-04
Phase delay (usec)	-4.11604543869E+03				3.0800002E-07				2.14550E-08	+/- 2.5E-07
Delay rate (us/s)	8.28838555219E-04				8.28792895058E-04				4.56602E-08	+/- 1.0E-09
Total phase (deg)			-32.0		2.94935733339E-05				0.7	+/- 7.9
	RMS	Theor.	Amplitude	0.256 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	53.1	18.8	Search (2048X32)	0.248	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)		-1.000	1.000	
amp/seg (%)	84.5	32.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	56.2	11.1	Inc. seg. avg.	0.370	Sample rate(MISamp/s): 128	dr window (ns/s)		-0.011	0.011	
amp/frq (%)	63.3	19.4	Inc. frq. avg.	0.277	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00

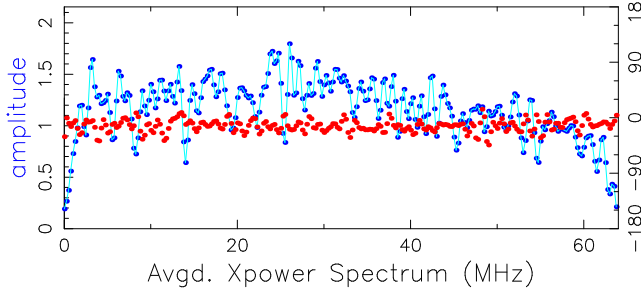


Fringe quality 4

SNR 72.8
 Int time 439.180
 Amp 1.269
 Phase 161.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.016149
 MBD -0.000035
 Fringe rate (Hz)
 0.001638
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

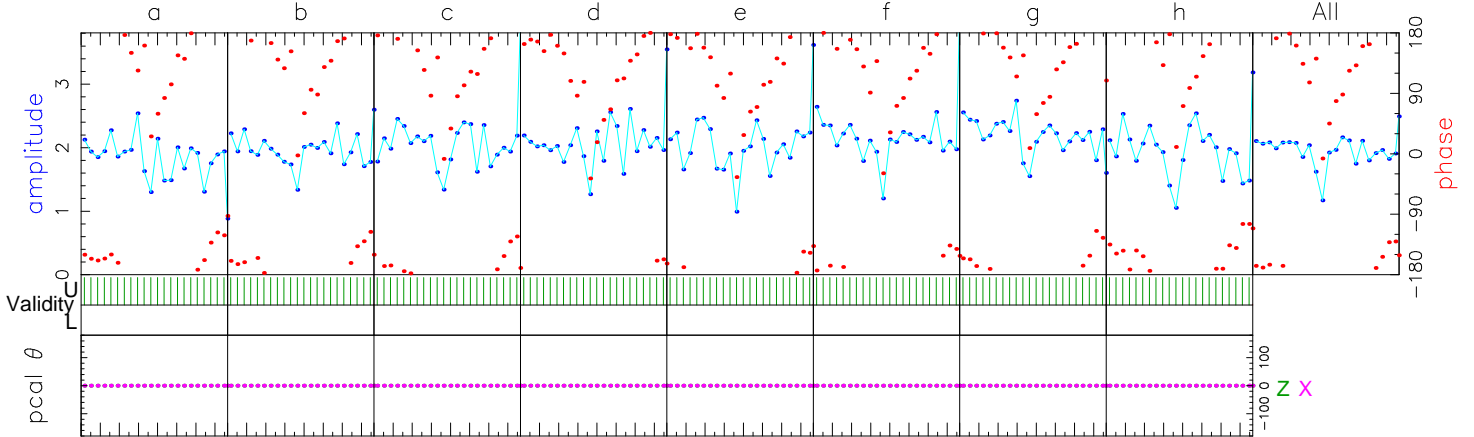


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



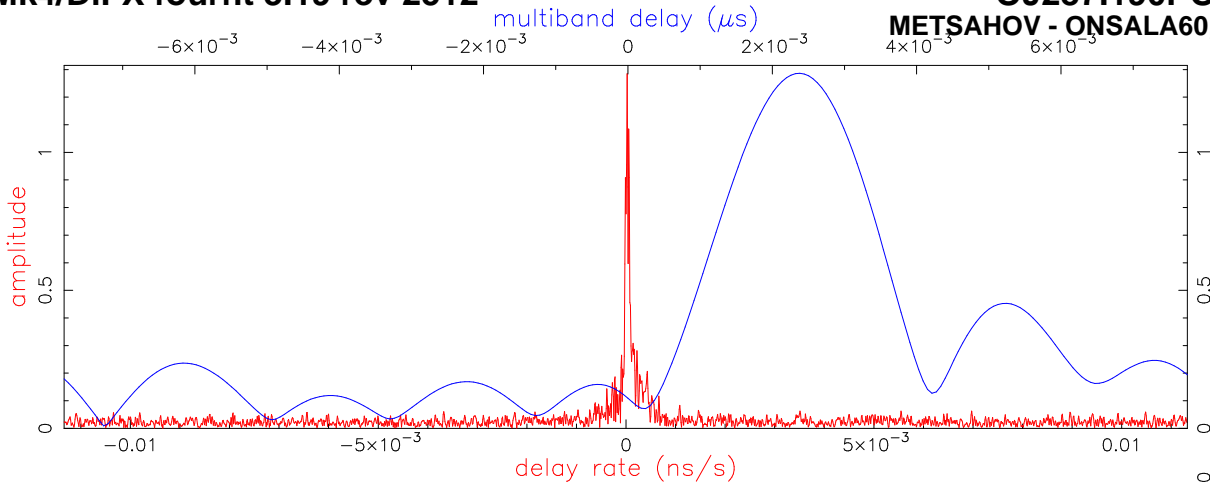
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	178.2	168.3	158.0	139.7	144.4	155.5	163.3	-175.6	Phase	161.2
	1.2	1.3	1.3	1.3	1.3	1.4	1.3	1.3	Ampl.	1.3
	252.6	252.5	252.8	252.8	253.1	253.0	253.1	253.3	Sbd box	252.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.14134840605E+03	Apriori delay (usec)	-2.14133274582E+03	Resid mbdelay (usec)	-3.52281E-05	+/-	1.5E-05
Sband delay (usec)	-2.14134889432E+03	Apriori clock (usec)	-4.0905655E+01	Resid sbdelay (usec)	-1.61485E-02	+/-	1.2E-04
Phase delay (usec)	-2.14133274062E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	5.19973E-06	+/-	5.1E-08
Delay rate (us/s)	-5.40551741296E-02	Apriori rate (us/s)	-5.40551931403E-02	Resid rate (us/s)	1.90106E-08	+/-	2.0E-10
Total phase (deg)	-99.8	Apriori accel (us/s/s)	1.21581537524E-05	Resid phase (deg)	161.2	+/-	1.6

ph/seg (deg)	59.2	RMS	59.2	Theor.	3.8	Amplitude	1.269 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	55.3		55.3		6.6	Search (2048X32)	1.231	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	16.7		16.7		2.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	5.6		5.6		3.9	Inc. seg. avg.	1.933	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	1.307	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator

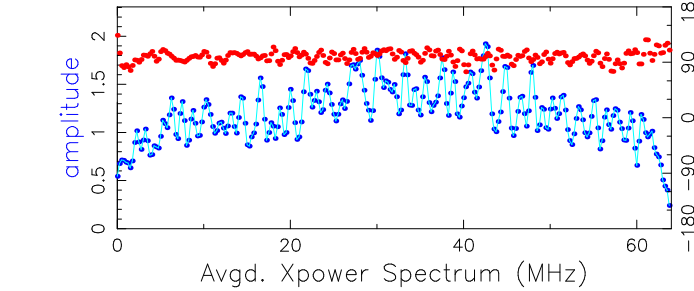
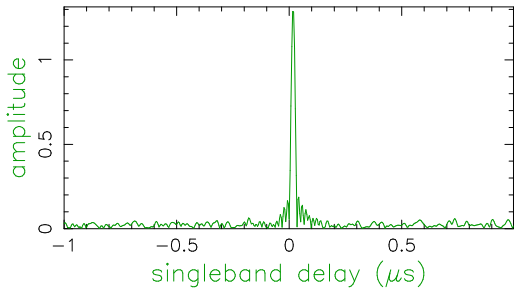
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.207.190POF



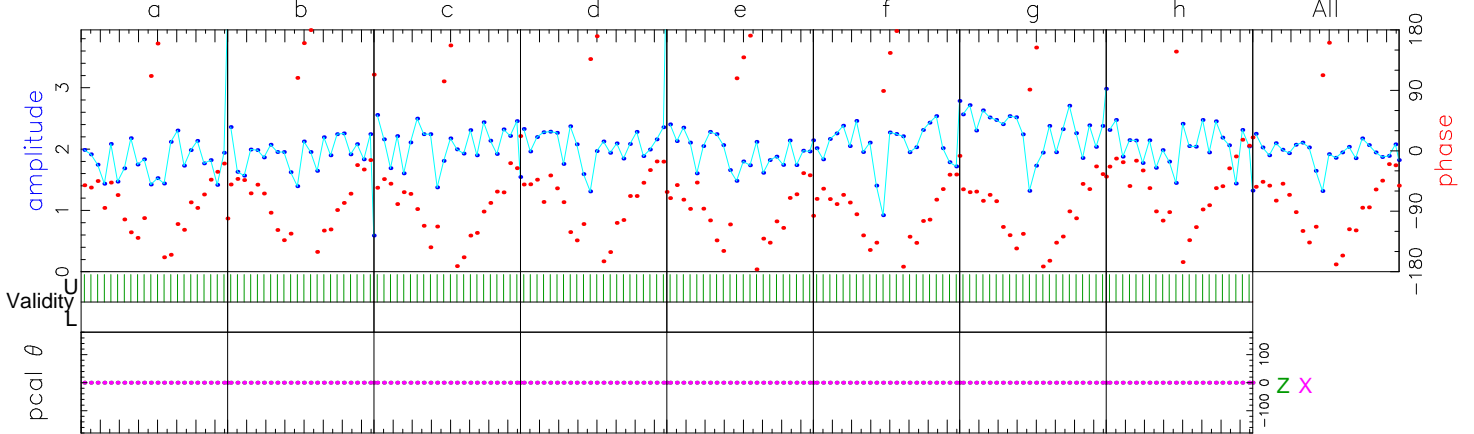
Fringe quality 4

SNR 75.4
 Int time 439.180
 Amp 1.315
 Phase -85.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.017536
 MBD 0.002322
 Fringe rate (Hz) 0.001660
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210611
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



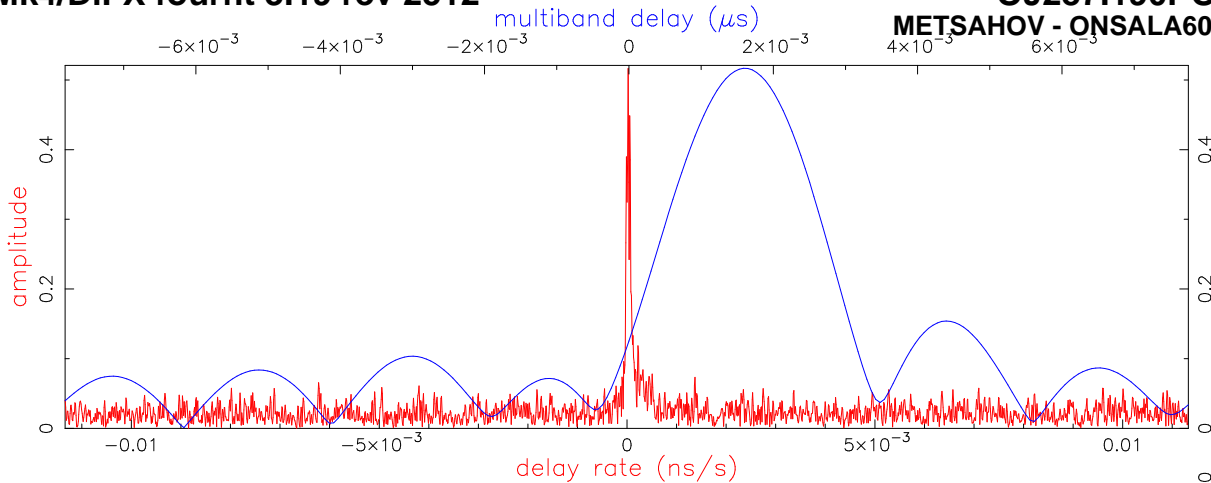
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-86.2	-83.4	-87.0	-76.9	-100.0	-100.0	-93.7	-54.8	Phase	-85.5
	1.2	1.2	1.3	1.3	1.2	1.4	1.5	1.3	Ampl.	1.3
	261.2	261.2	261.4	261.6	261.4	261.6	261.9	262.0	Sbd box	261.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.14131479840E+03		Apriori delay (usec)		-2.14133274582E+03		Resid mbdelay (usec)		2.32243E-03	+/- 1.4E-05
Sband delay (usec)	-2.14131521032E+03		Apriori clock (usec)		-4.0905655E+01		Resid sbdelay (usec)		1.75355E-02	+/- 1.1E-04
Phase delay (usec)	-2.14133274858E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-2.75790E-06	+/- 4.9E-08
Delay rate (us/s)	-5.40551738724E-02		Apriori rate (us/s)		-5.40551931403E-02		Resid rate (us/s)		1.92678E-08	+/- 1.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.21581537524E-05		Resid phase (deg)		-85.5	+/- 1.5

RMS Theor. Amplitude 1.315 +/- 0.017
 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

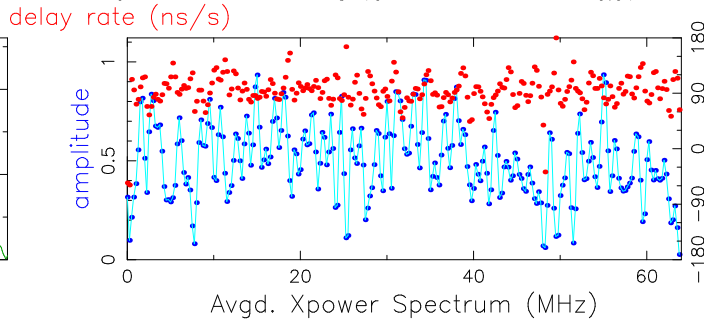
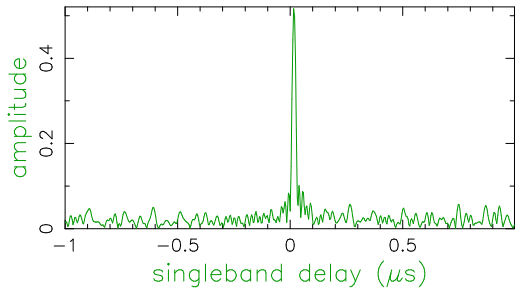
Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.224.190POF



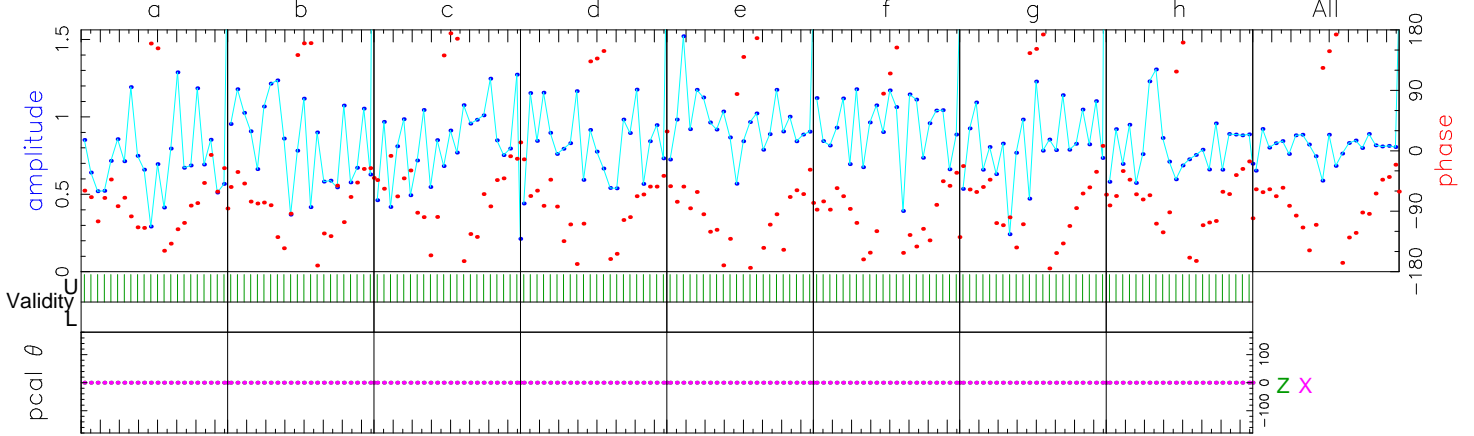
Fringe quality 7

SNR 29.9
 Int time 439.180
 Amp 0.521
 Phase -92.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.016796
 MBD 0.001643
 Fringe rate (Hz) 0.001674
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210614
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



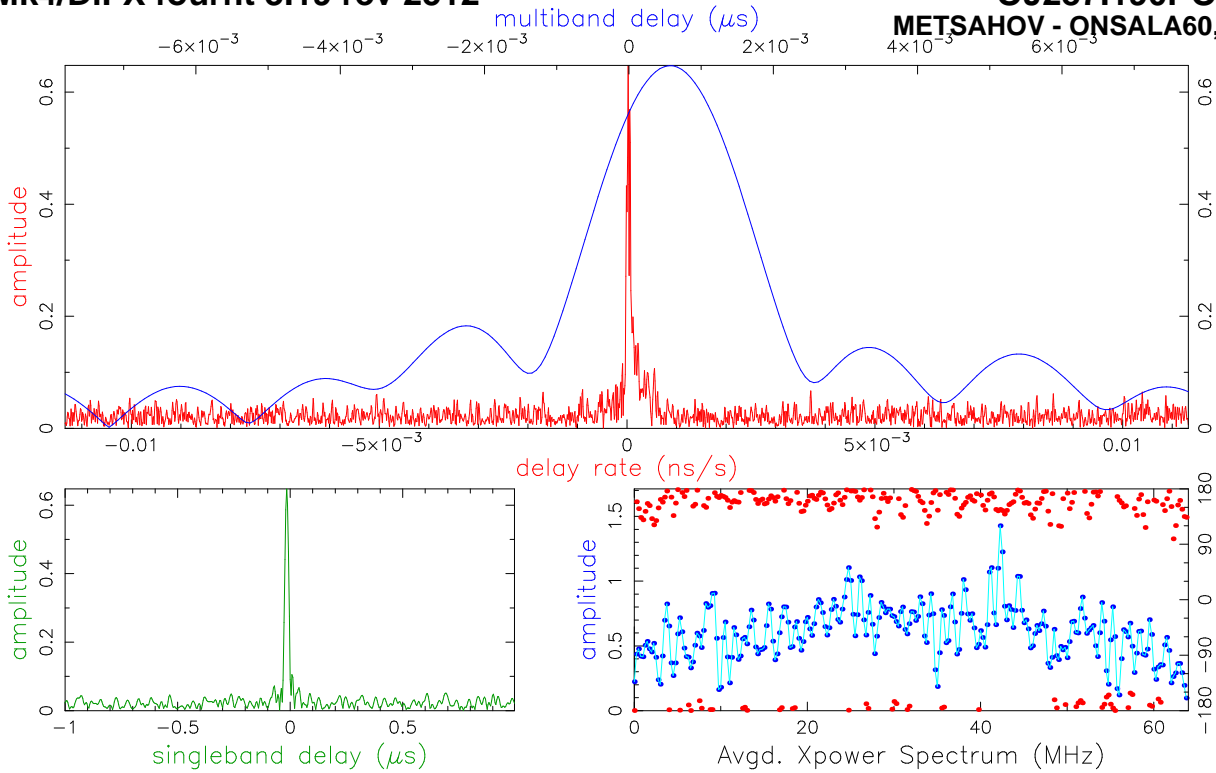
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-2.14131547746E+03	Apriori delay (usec)	-2.14133274582E+03	Resid mbdelay (usec)	1.64337E-03	+/-	3.6E-05
Sband delay (usec)	-2.14131595007E+03	Apriori clock (usec)	-4.0905655E+01	Resid sbdelay (usec)	1.67958E-02	+/-	2.9E-04
Phase delay (usec)	-2.14133274880E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	-2.97781E-06	+/-	1.2E-07
Delay rate (us/s)	-5.40551737010E-02	Apriori rate (us/s)	-5.40551931403E-02	Resid rate (us/s)	1.94393E-08	+/-	4.9E-10
Total phase (deg)	-353.4	Apriori accel (us/s/s)	1.21581537524E-05	Resid phase (deg)	-92.3	+/-	3.8

ph/seg (deg)	57.4	RMS	9.2	Theor.	5.4	Amplitude	0.521 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	56.9	Search (2048X32)	0.502	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	9.7	Inc. seg. avg.	0.795	Inc. frq. avg.	0.520	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	8.5	Inc. frq. avg.	0.520													

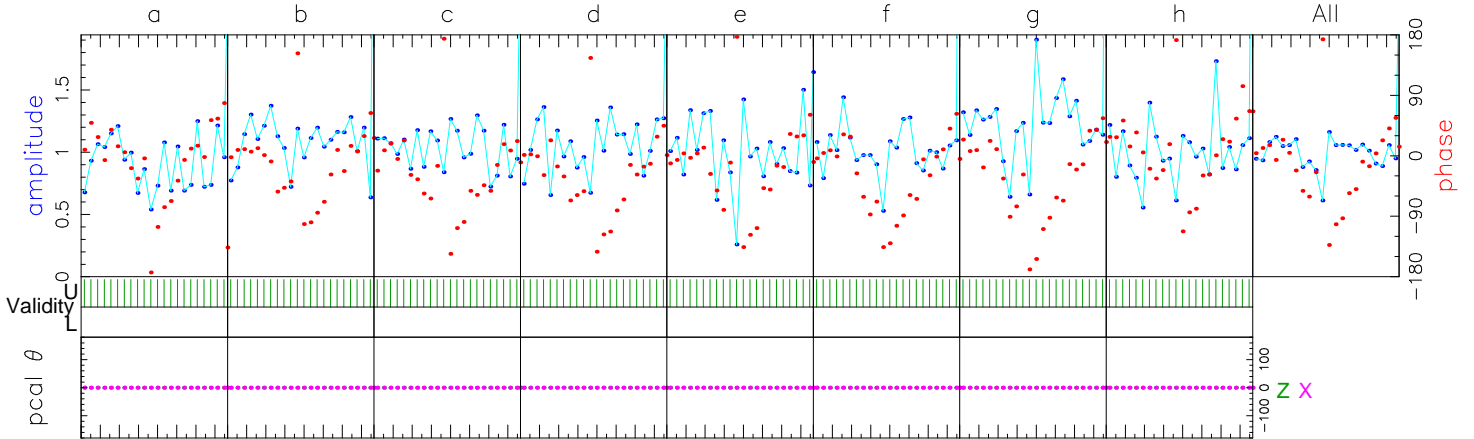
Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.234.190POF



Fringe quality 6
 SNR 37.1
 Int time 439.180
 Amp 0.648
 Phase -18.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.015321
 MBD 0.000577
 Fringe rate (Hz) 0.001674
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210617
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	5.4	-15.9	-32.1	-33.5	-20.0	-24.7	-24.3	5.0	Phase	-18.0
	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.6	Ampl.	0.7
	252.7	252.6	253.3	253.2	253.2	253.0	253.4	253.7	Sbd box	253.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-2.14134779340E+03		Apriori delay (usec)		-2.14133274582E+03		Resid mbdelay (usec)		5.77428E-04	+/- 2.9E-05
Sband delay (usec)	-2.14134806632E+03		Apriori clock (usec)		-4.0905655E+01		Resid sbdelay (usec)		-1.53205E-02	+/- 2.3E-04
Phase delay (usec)	-2.14133274640E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-5.79690E-07	+/- 1.0E-07
Delay rate (us/s)	-5.40551737024E-02		Apriori rate (us/s)		-5.40551931403E-02		Resid rate (us/s)		1.94379E-08	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.21581537524E-05		Resid phase (deg)		-18.0	+/- 3.1

ph/seg (deg) 58.7 7.4 Search (2048X32) 0.632 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.8 12.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.4 4.4 Inc. seg. avg. 0.985 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.5 7.6 Inc. frq. avg. 0.665 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.239.190POF