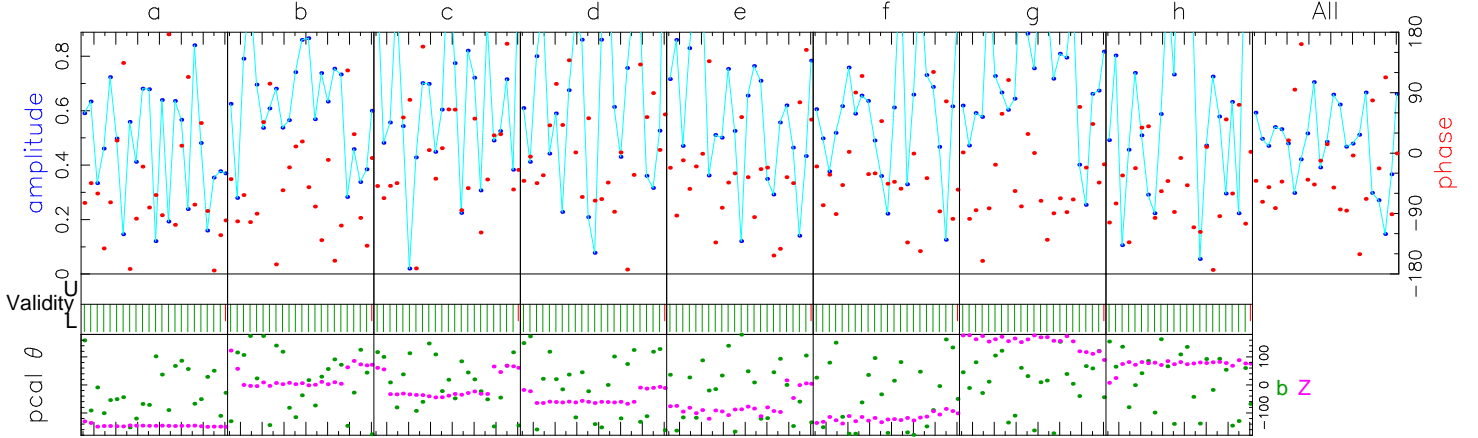


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



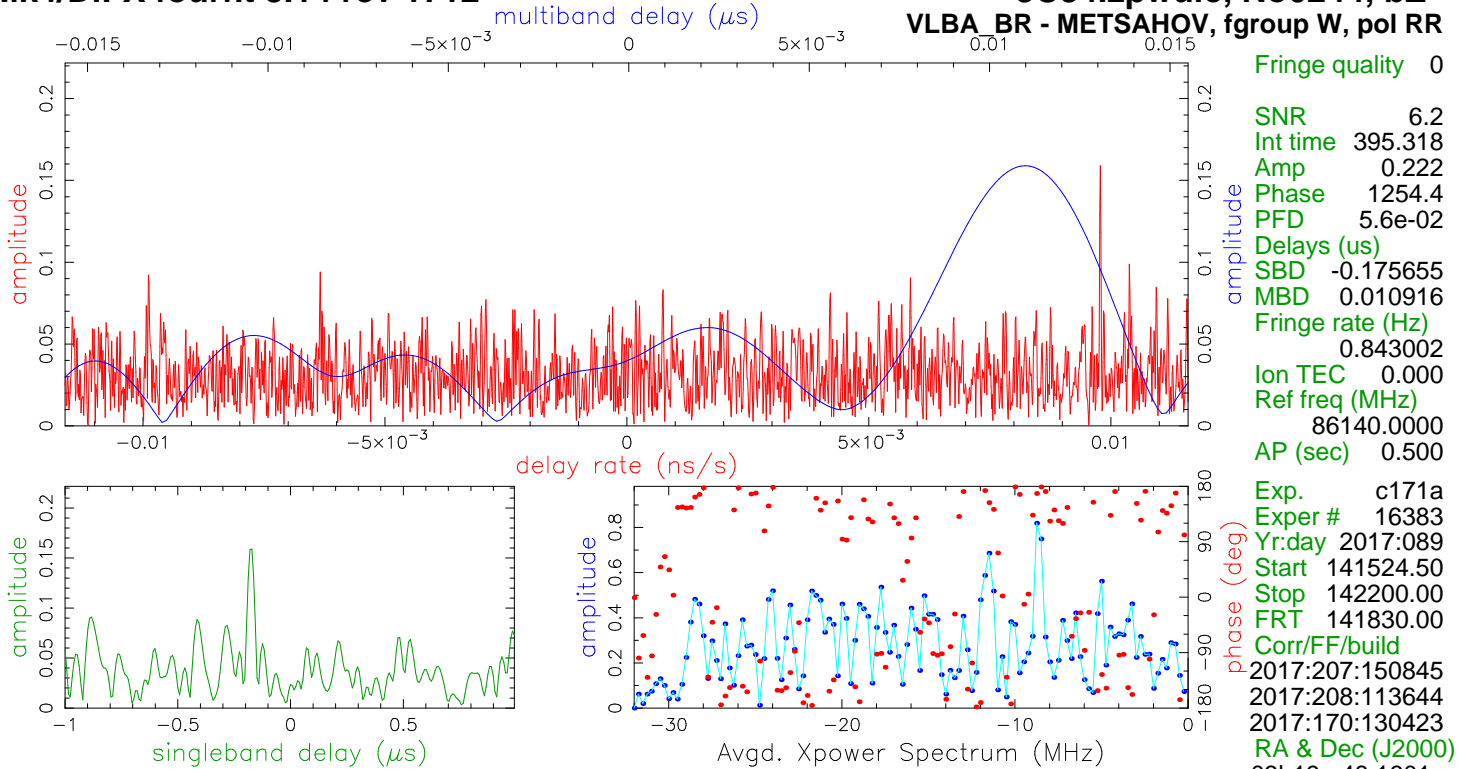
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-78.0	-64.4	-10.8	-14.6	-44.5	-45.9	-54.4	-57.0	Phase	-47.0
0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	Ampl.	0.3
128.8	129.2	128.0	129.0	127.6	125.6	127.1	128.1	Sbd box	128.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	-1.57503394226E+04	Apriori delay (usec)	-1.57503450168E+04	Resid mbdelay (usec)	5.59412E-03	+/-	1.9E-04
Sband delay (usec)	-1.57503524478E+04	Apriori clock (usec)	-5.4593148E+00	Resid sbdelay (usec)	-7.43100E-03	+/-	1.5E-03
Phase delay (usec)	-1.57503450183E+04	Apriori clockrate (us/s)	-1.8479752E-08	Resid phdelay (usec)	-1.51609E-06	+/-	3.2E-07
Delay rate (us/s)	7.87321106001E-01	Apriori rate (us/s)	7.87321394171E-01	Resid rate (us/s)	-2.88170E-07	+/-	1.4E-09
Total phase (deg)	-314.9	Apriori accel (us/s/s)	7.44731785165E-05	Resid phase (deg)	-47.0	+/-	10.1

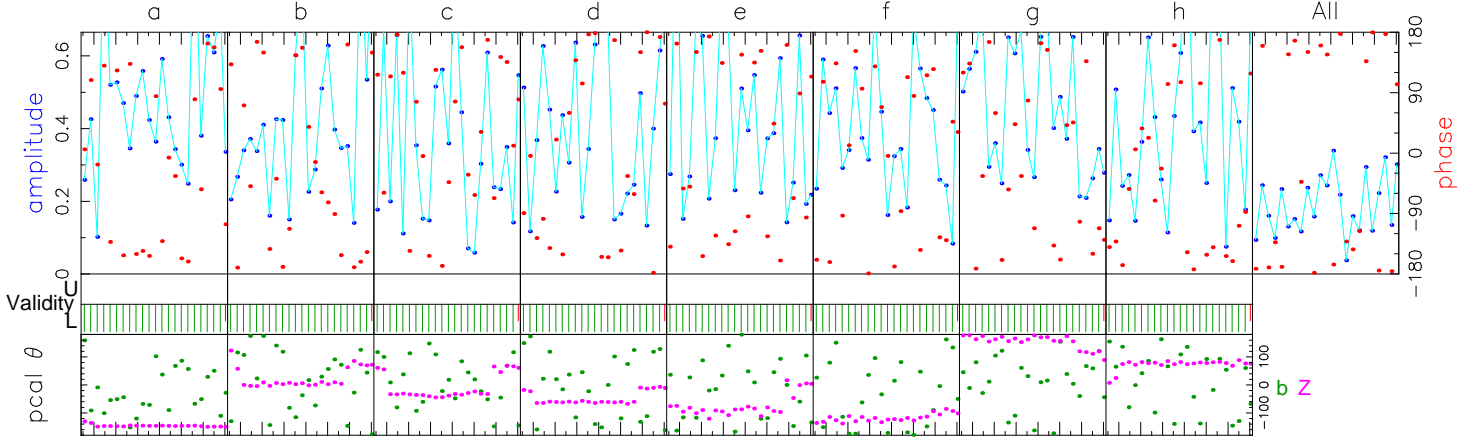
ph/seg (deg)	71.4	Theor.	24.1	Amplitude	0.296 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.1	Search (2048X32)	0.279	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	25.1	Interp.	0.000	Inc. seg. avg.	0.440	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	20.3	Inc. frq. avg.	0.306	Inc. frq. avg.	0.306	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.113.zpwuic



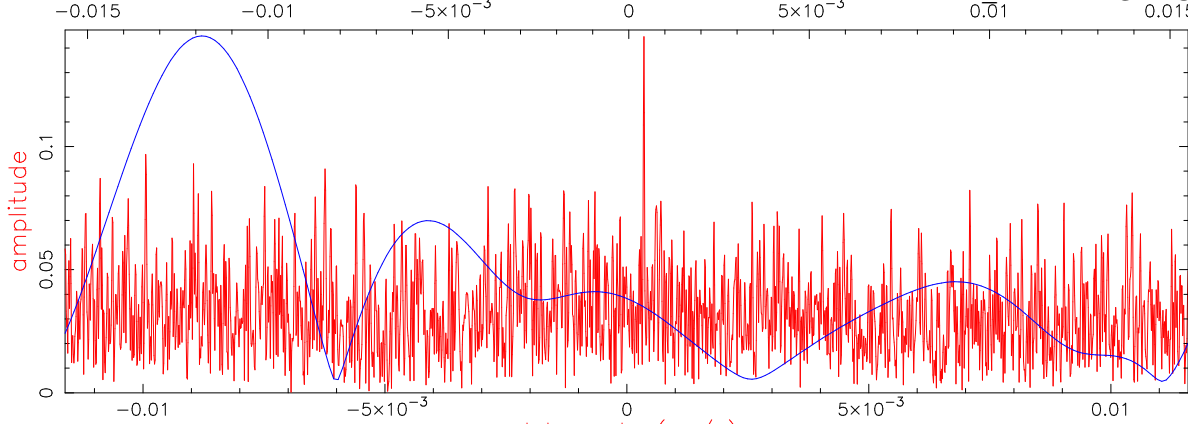
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
158.0	-162.9	147.1	-164.9	-180.0	134.8	167.2	-163.4	Phase	174.4
0.3	0.2	0.2	0.3	0.3	0.3	0.1	0.2	Ampl.	0.2
18.0	7.0	204.7	63.8	107.2	128.7	46.2	197.6	Sbd box	106.5
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.57505216013E+04		Apriori delay (usec)	-1.57503450168E+04		Resid mbdelay (usec)	1.09155E-02	+/-	3.5E-04
Sband delay (usec)	-1.57505206723E+04		Apriori clock (usec)	-5.4593148E+00		Resid sbdelay (usec)	-1.75655E-01	+/-	2.8E-03
Phase delay (usec)	-1.57503450111E+04		Apriori clockrate (us/s)	-1.8479752E-08		Resid phdelay (usec)	5.62392E-06	+/-	5.9E-07
Delay rate (us/s)	7.87331180593E-01		Apriori rate (us/s)	7.87321394171E-01		Resid rate (us/s)	9.78642E-06	+/-	2.6E-09
Total phase (deg)		986.5	Apriori accel (us/s/s)	7.44731785165E-05		Resid phase (deg)	1254.4	+/-	18.4

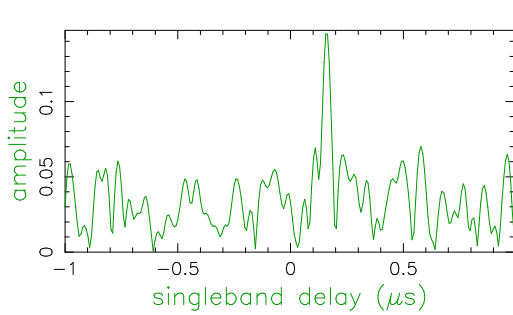
ph/seg (deg) 42.7 44.0 Search (2048X32) 0.154 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 51.8 76.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.2 26.0 Inc. seg. avg. 0.200 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 31.7 45.3 Inc. frq. avg. 0.213 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.114.zpwiuc

multiband delay (μs)

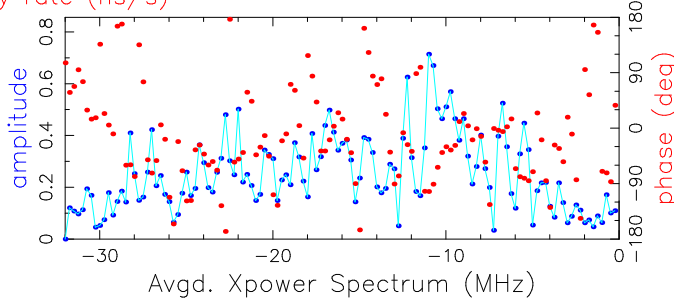


Fringe quality 0

SNR 5.7
Int time 395.318
Amp 0.147
Phase -843.5
PFD 8.4e-01
Delays (us)
SBD 0.159983
MBD -0.011686
Fringe rate (Hz) 0.030184
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



delay rate (ns/s)



Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:208:113646
2017:170:130423
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

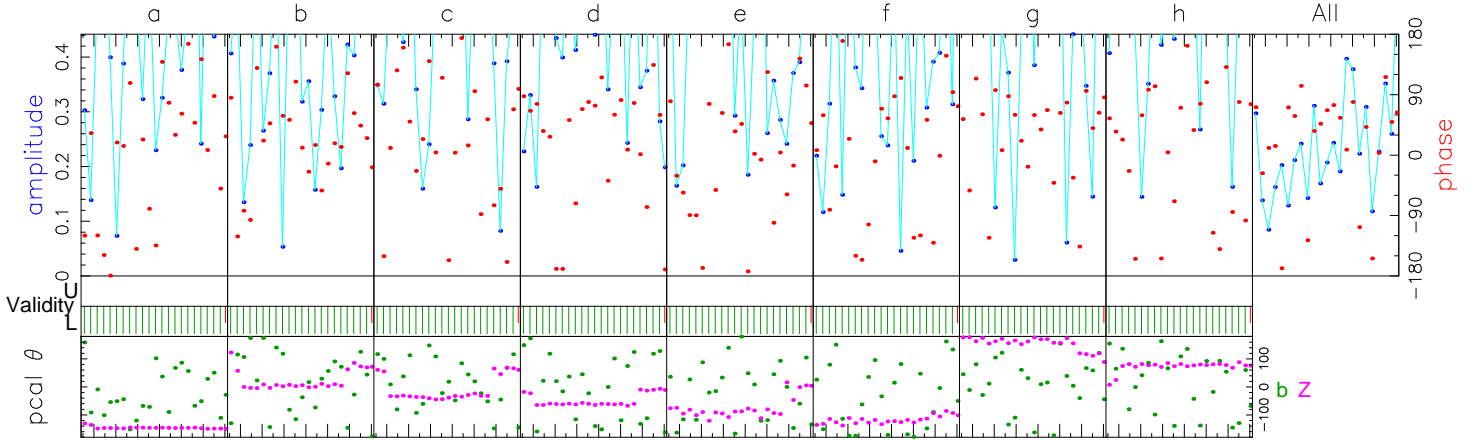


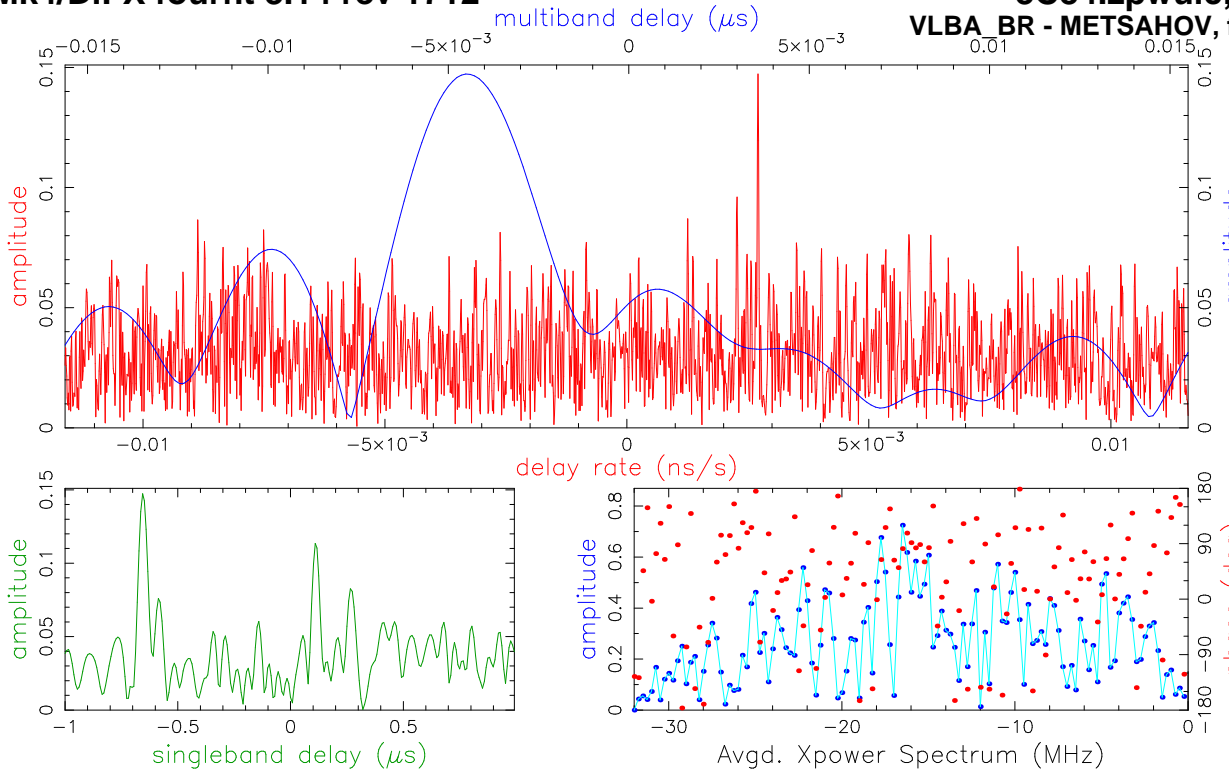
Table with 9 columns of frequency data and 10 rows of parameters including U/L, b, Z, b:Z, pcal, and channel IDs.

Table with 4 columns of delay and rate parameters and 4 columns of residual and phase parameters.

Table with 4 columns of RMS and search parameters and 4 columns of pcal and window parameters.

b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ...zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.115.zpwuic

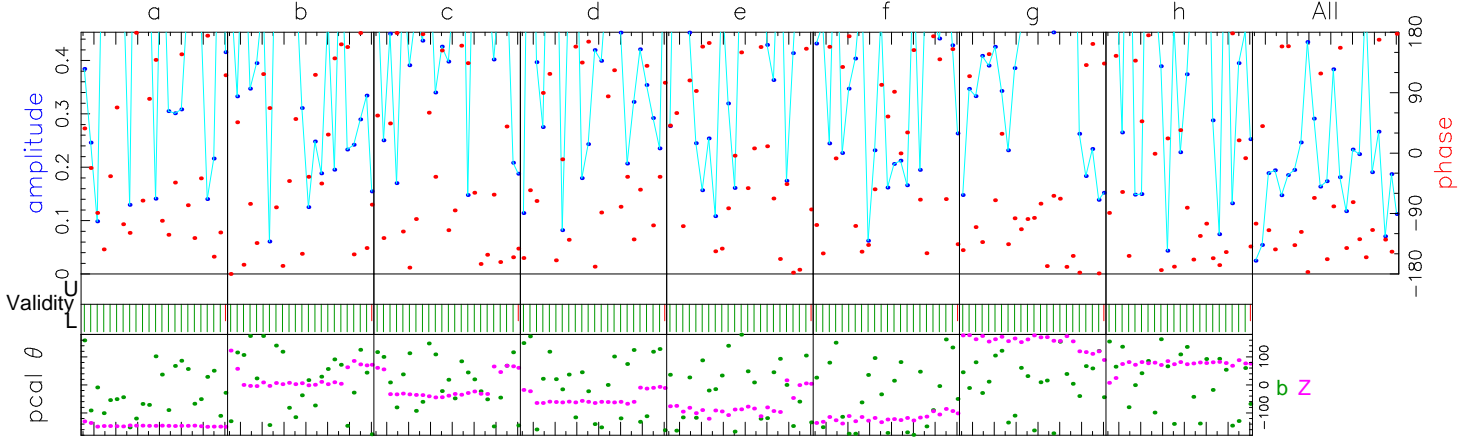


Fringe quality 0

SNR 5.7
 Int time 395.318
 Amp 0.151
 Phase 3636.8
 PFD 8.1e-01
 Delays (us)
 SBD -0.654554
 MBD -0.004460
 Fringe rate (Hz)
 0.233282
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

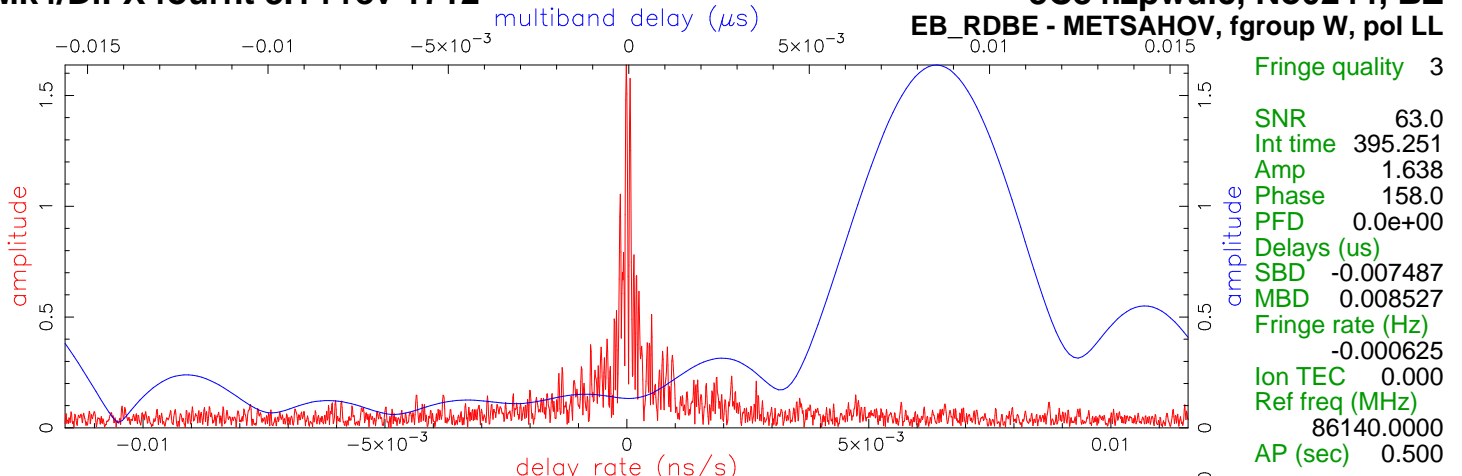
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113648
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-111.2	-164.5	-145.5	-159.7	-178.0	-162.6	-127.5	-139.8	Phase	-143.2
0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	Ampl.	0.1
145.8	72.7	196.3	53.8	207.5	57.2	46.1	42.7	Sbd box	45.2
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.57510057265E+04		Apriori delay (usec)	-1.57503450168E+04		Resid mbdelay (usec)	-4.45975E-03	+/-	3.8E-04
Sband delay (usec)	-1.57509995713E+04		Apriori clock (usec)	-5.4593148E+00		Resid sbdelay (usec)	-6.54554E-01	+/-	3.0E-03
Phase delay (usec)	-1.57503450214E+04		Apriori clockrate (us/s)	-1.8479752E-08		Resid phdelay (usec)	-4.61677E-06	+/-	6.5E-07
Delay rate (us/s)	7.87324102347E-01		Apriori rate (us/s)	7.87321394171E-01		Resid rate (us/s)	2.70818E-06	+/-	2.9E-09
Total phase (deg)		3728.9	Apriori accel (us/s/s)	7.44731785165E-05		Resid phase (deg)	3636.8	+/-	20.2

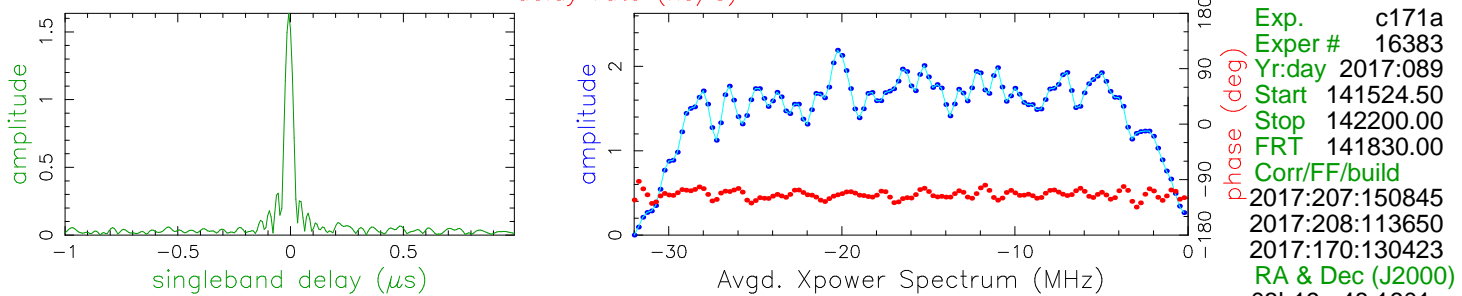
ph/seg (deg) 57.6 48.4 Search (2048X32) 0.145 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 87.6 84.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.5 28.5 Inc. seg. avg. 0.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 38.1 49.8 Inc. frq. avg. 0.142 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.116.zpwuic



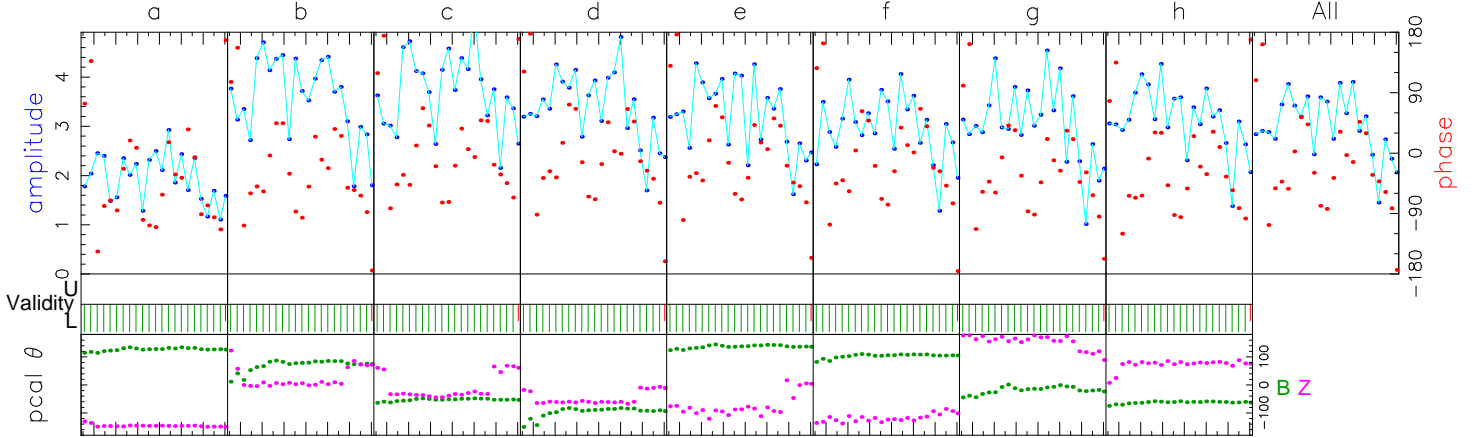
Fringe quality 3

SNR 63.0
 Int time 395.251
 Amp 1.638
 Phase 158.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.007487
 MBD 0.008527
 Fringe rate (Hz)
 -0.000625
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113650
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

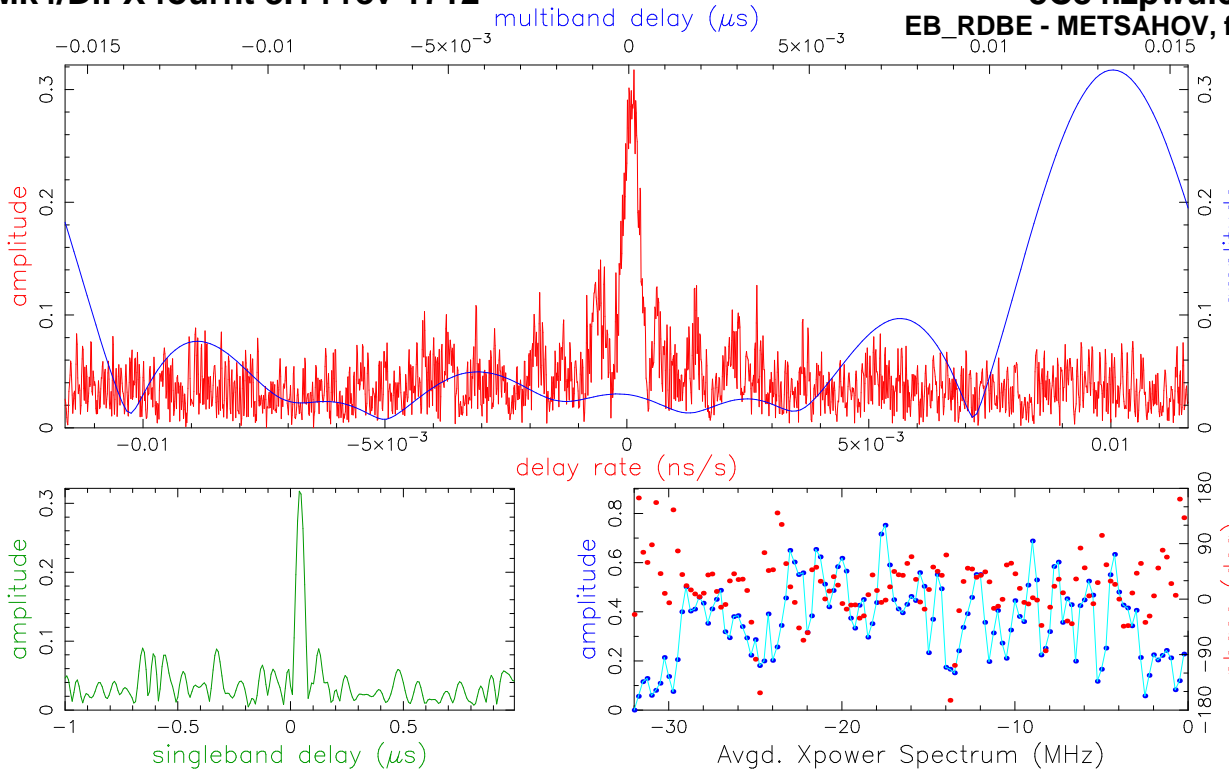


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



Validity									Validity	
pcal θ									pcal θ	
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-54.6	-28.3	-12.8	-6.2	-9.4	-16.3	-29.4	-35.4	Phase	-22.0
	0.9	1.9	2.1	1.8	1.6	1.5	1.7	1.7	Ampl.	1.7
	127.3	128.7	128.1	128.1	128.0	127.8	128.1	128.2	Sbd box	128.0
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.23034020322E+03		Apriori delay (usec)		1.23036292651E+03		Resid mbdelay (usec)		8.52671E-03	+/- 3.4E-05
Sband delay (usec)	1.23035543951E+03		Apriori clock (usec)		2.7746971E+01		Resid sbdelay (usec)		-7.48700E-03	+/- 2.7E-04
Phase delay (usec)	1.23036292580E+03		Apriori clockrate (us/s)		-5.5506642E-08		Resid phdelay (usec)		-7.08447E-07	+/- 5.9E-08
Delay rate (us/s)	1.75717734294E-01		Apriori rate (us/s)		1.75717741554E-01		Resid rate (us/s)		-7.25926E-09	+/- 2.6E-10
Total phase (deg)	334.3		Apriori accel (us/s/s)		-1.36003526519E-05		Resid phase (deg)		158.0	+/- 1.8

ph/seg (deg) 68.2 4.4 Theor. Amplitude 1.638 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 92.7 7.6 Search (2048X32) 1.606 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.6 2.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 20.4 4.5 Inc. seg. avg. 3.024 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ...zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.117.zpwuic

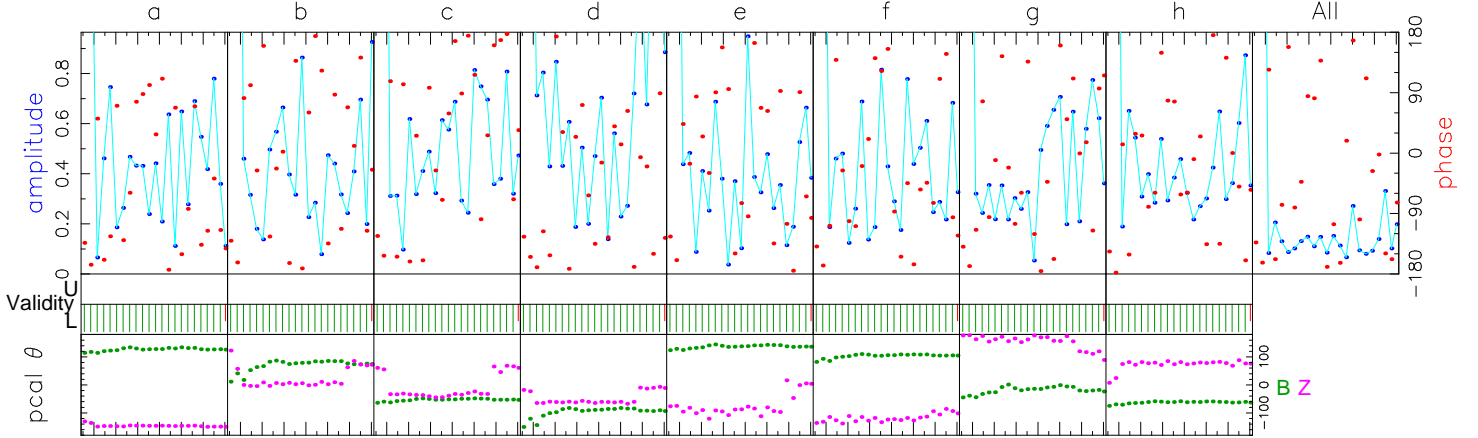


Fringe quality 9

SNR 12.4
 Int time 395.251
 Amp 0.322
 Phase -328.5
 PFD 1.0e-26
 Delays (us)
 SBD 0.042333
 MBD 0.013407
 Fringe rate (Hz) 0.012443
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build 2017:207:150845
 2017:208:113651
 2017:170:130423
 RA & Dec (J2000) 03h19m48.1601s +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-145.6	-153.7	-153.8	-143.3	-146.5	-137.2	-155.8	-150.6	Phase	-148.5
0.2	0.3	0.4	0.3	0.4	0.4	0.4	0.3	Ampl.	0.3
13.7	134.6	133.9	134.6	3.2	135.0	134.1	134.7	Sbd box	134.4
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.23040758350E+03	Apriori delay (usec)	1.23036292651E+03	Resid mbdelay (usec)	1.34070E-02	+/-	1.8E-04		
Sband delay (usec)	1.23040526001E+03	Apriori clock (usec)	2.7746971E+01	Resid sbdelay (usec)	4.23335E-02	+/-	1.4E-03		
Phase delay (usec)	1.23036292172E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	-4.78969E-06	+/-	3.0E-07		
Delay rate (us/s)	1.75717886000E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	1.44447E-07	+/-	1.3E-09		
Total phase (deg)		Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	-328.5	+/-	9.3		

ph/seg (deg) 82.8 22.2
 amp/seg (%) 274.7 38.8
 ph/frq (deg) 6.8 13.1
 amp/frq (%) 18.1 22.9

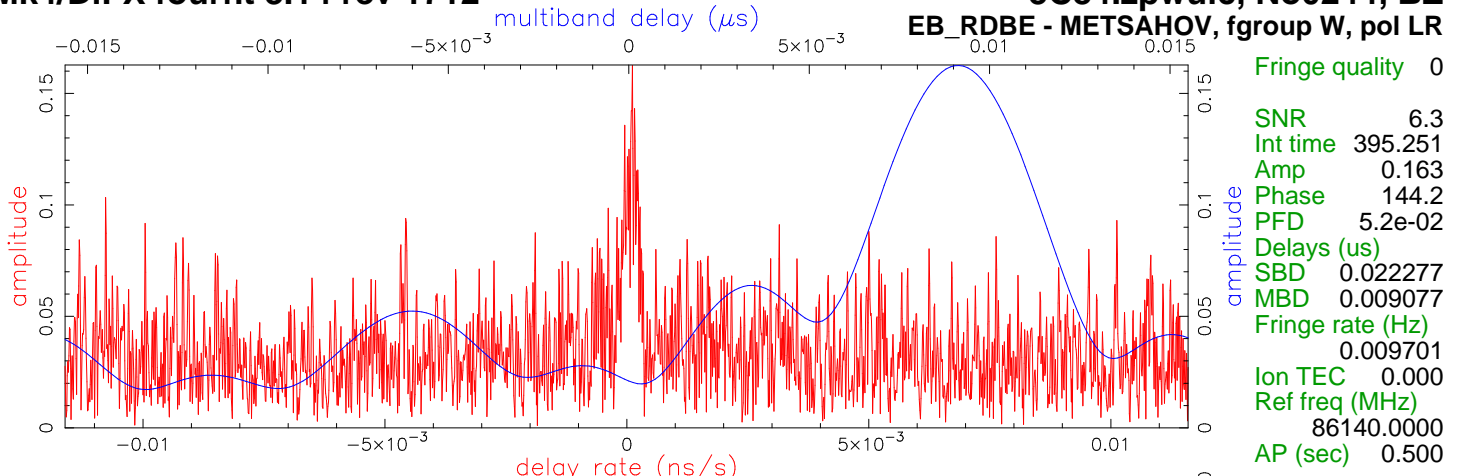
RMS Theor. Amplitude 0.322 +/- 0.026
 Search (2048X32) 0.312
 Interp. 0.000
 Inc. seg. avg. 0.380
 Inc. frq. avg. 0.311

U/L 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(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

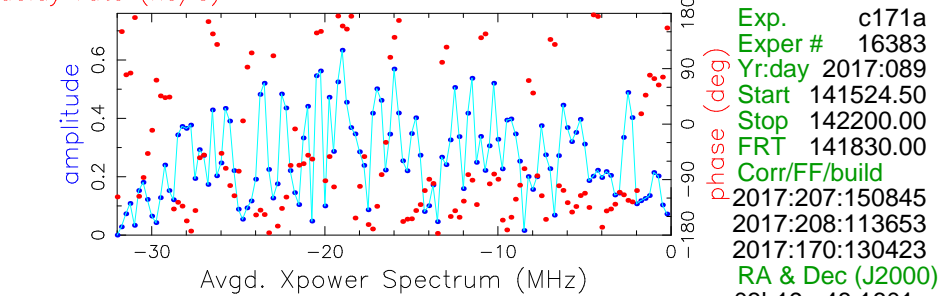
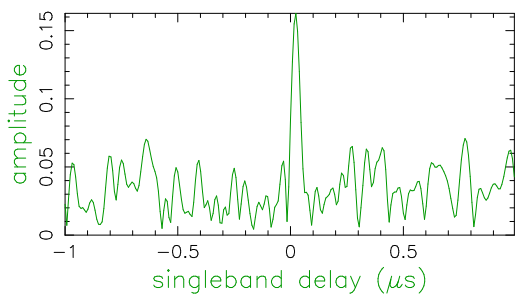
sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.012 0.012
 ion window (TEC) 0.00 0.00

B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ...zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.118.zpwuic

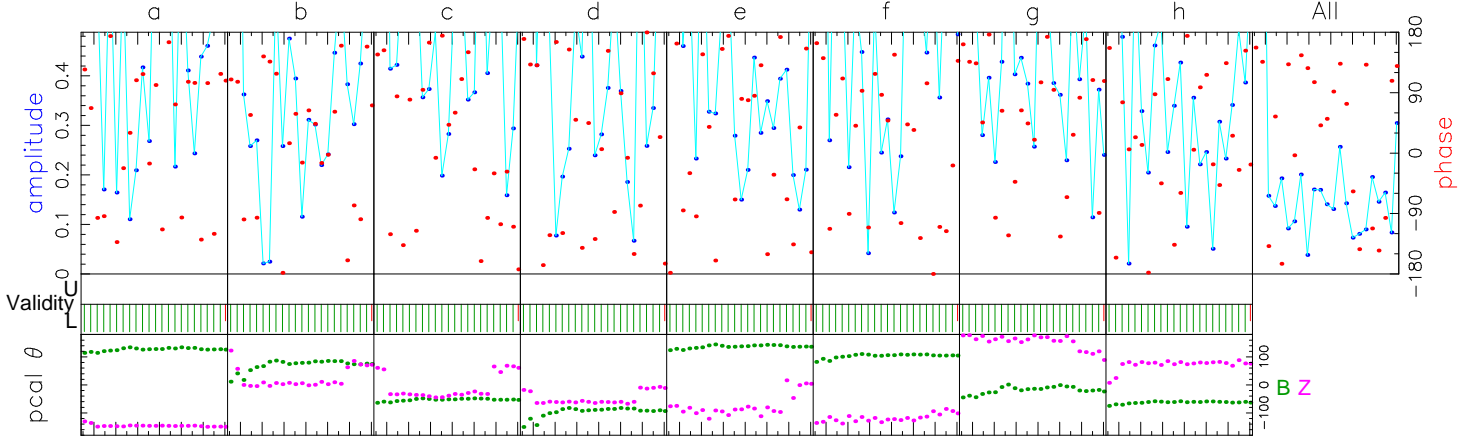


Fringe quality 0
 SNR 6.3
 Int time 395.251
 Amp 0.163
 Phase 144.2
 PFD 5.2e-02
 Delays (us)
 SBD 0.022277
 MBD 0.009077
 Fringe rate (Hz) 0.009701
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113653
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

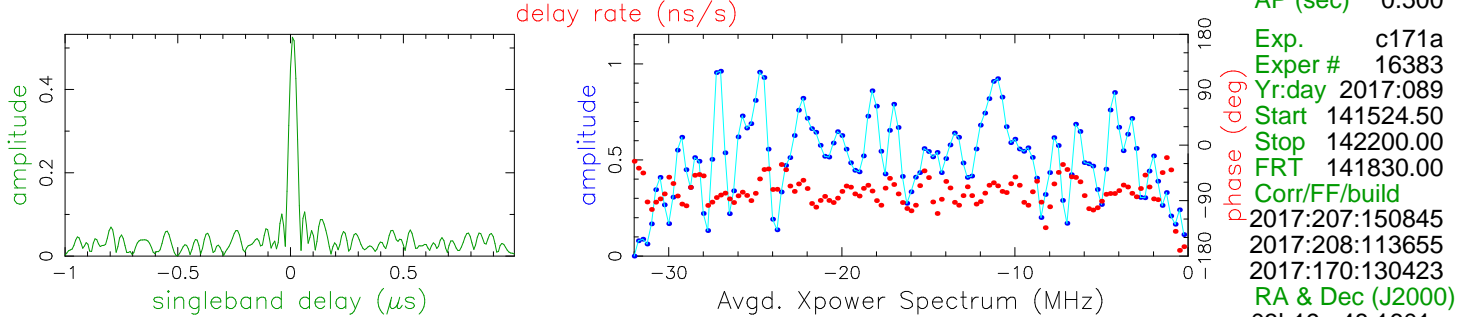
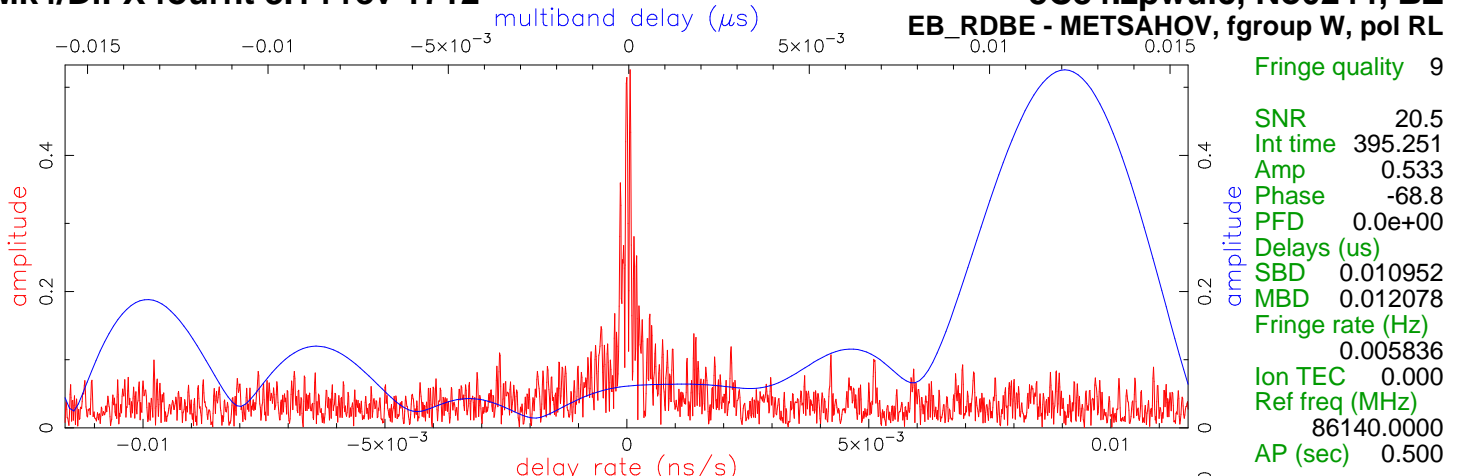


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		

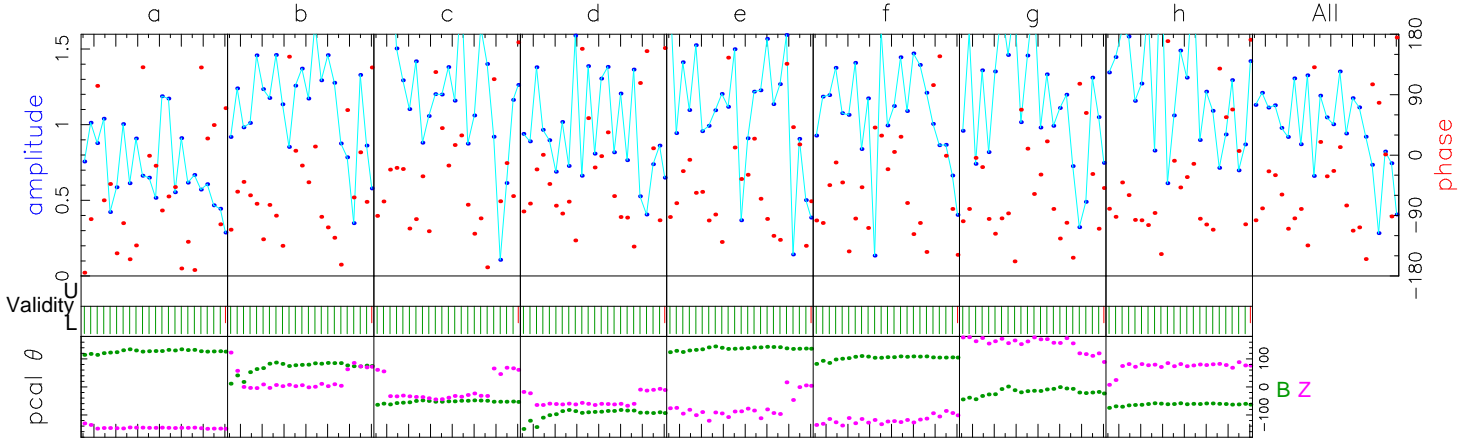
Group delay (usec)(sbd)	1.23037200389E+03	Apriori delay (usec)	1.23036292651E+03	Resid mbdelay (usec)	9.07738E-03	+/-	3.5E-04
Sband delay (usec)	1.23038520351E+03	Apriori clock (usec)	2.7746971E+01	Resid sbdelay (usec)	2.22770E-02	+/-	2.8E-03
Phase delay (usec)	1.23036293116E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	4.64849E-06	+/-	5.9E-07
Delay rate (us/s)	1.75717854171E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	1.12618E-07	+/-	2.6E-09
Total phase (deg)	320.4	Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	144.2	+/-	18.3

ph/seg (deg)	75.8	Theor.	43.9	Search (2048X32)	0.160	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	217.9	RMS	75.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	30.6	43.9	76.6	Inc. seg. avg.	0.192	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	32.8	32.8	45.2	Inc. frq. avg.	0.163	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ...zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.119.zpwuic

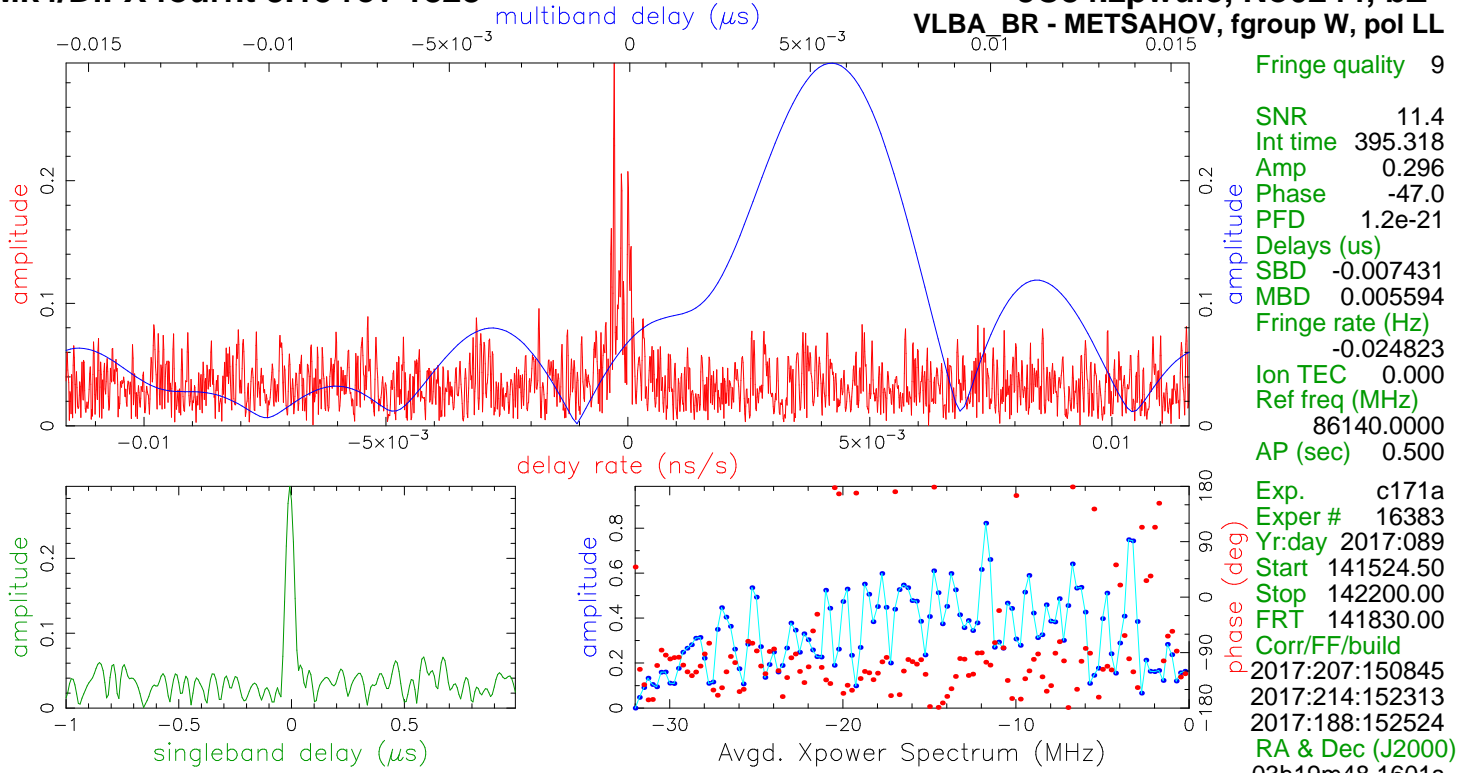


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



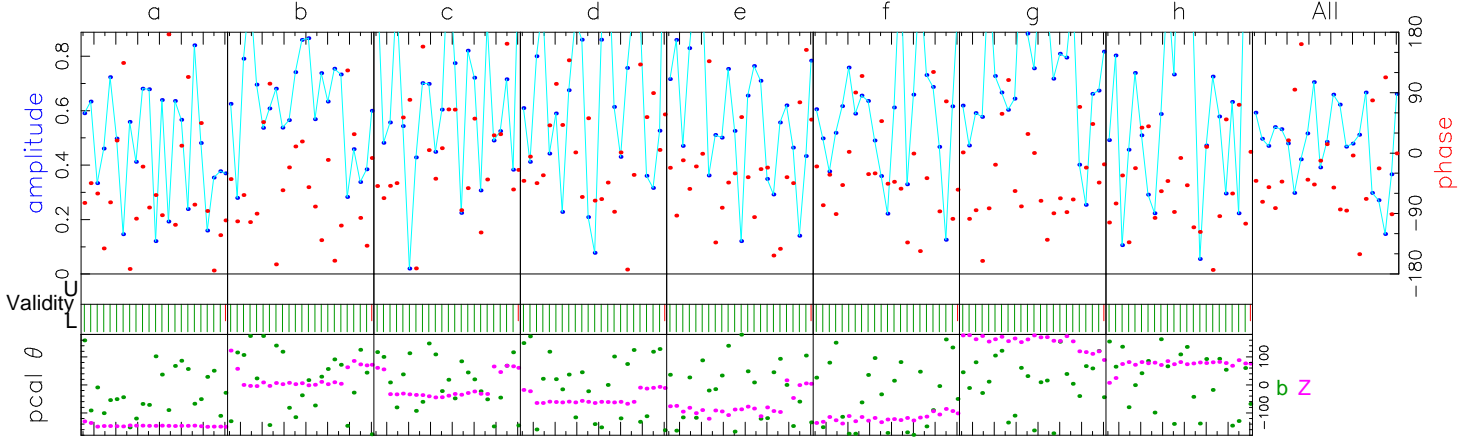
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-107.4	-69.0	-53.1	-57.3	-68.6	-63.9	-71.7	-76.0	Phase	-68.8
0.3	0.6	0.6	0.4	0.5	0.7	0.7	0.7	Ampl.	0.5
130.1	130.7	130.8	130.3	130.5	129.8	130.6	130.6	Sbd box	130.4
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.23037500449E+03	Apriori delay (usec)	1.23036292651E+03	Resid mbdelay (usec)	1.20780E-02	+/-	1.1E-04		
Sband delay (usec)	1.23037387851E+03	Apriori clock (usec)	2.7746971E+01	Resid sbdelay (usec)	1.09520E-02	+/-	8.4E-04		
Phase delay (usec)	1.23036292429E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	-2.21995E-06	+/-	1.8E-07		
Delay rate (us/s)	1.75717809307E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	6.77538E-08	+/-	7.9E-10		
Total phase (deg)	107.4	Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	-68.8	+/-	5.6		

ph/seg (deg) 76.1 13.4 Search (2048X32) 0.518 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 97.6 23.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.0 7.9 Inc. seg. avg. 0.957 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 23.4 13.8 Inc. frq. avg. 0.533 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ...zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.120.zpwuic



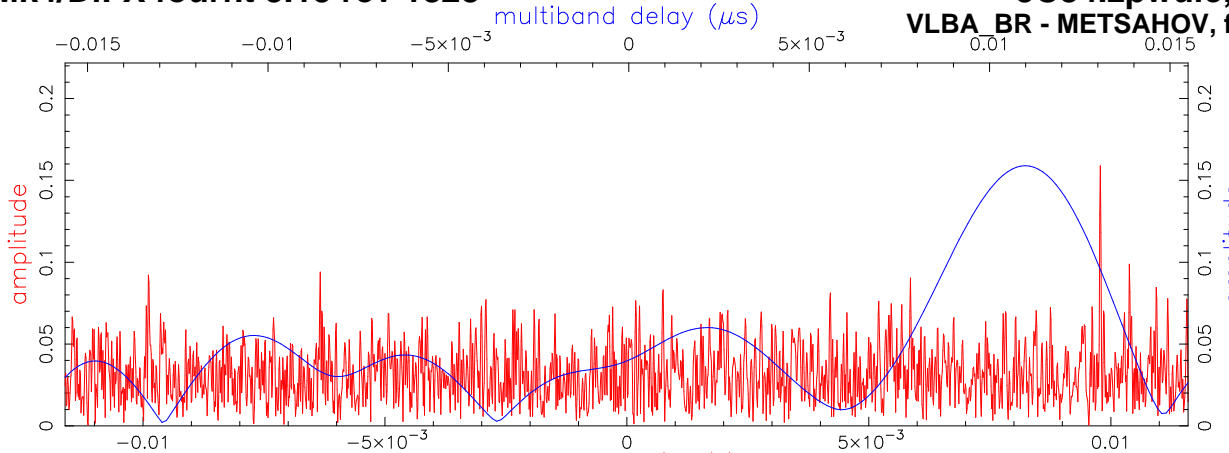
Fringe quality 9
SNR 11.4
Int time 395.318
Amp 0.296
Phase -47.0
PFD 1.2e-21
Delays (us)
SBD -0.007431
MBD 0.005594
Fringe rate (Hz)
-0.024823
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:214:152313
2017:188:152524
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

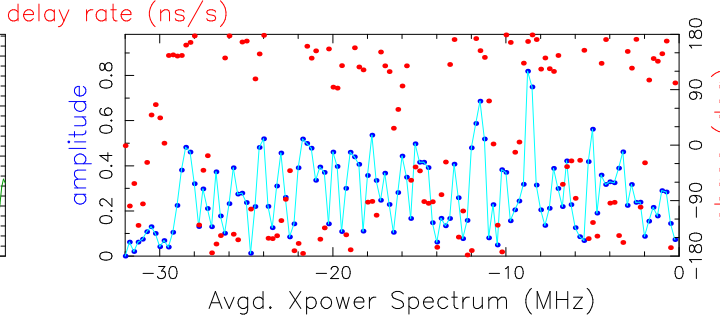
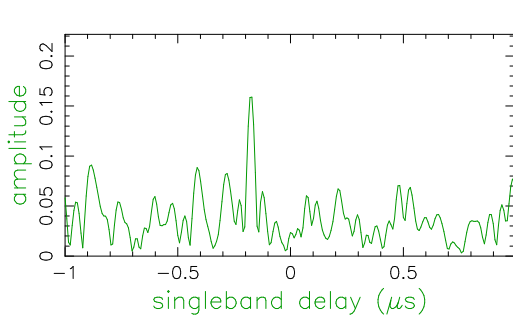


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-78.0	-64.4	-10.8	-14.6	-44.5	-45.9	-54.4	-57.0	Phase	-47.0
	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	Ampl.	0.3
	128.8	129.2	128.0	129.0	127.6	125.6	127.1	128.1	Sbd box	128.0
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.57503394226E+04		Apriori delay (usec)		-1.57503450168E+04		Resid mbdelay (usec)		5.59412E-03	+/- 1.9E-04
Sband delay (usec)	-1.57503524478E+04		Apriori clock (usec)		-5.4593148E+00		Resid sbdelay (usec)		-7.43100E-03	+/- 1.5E-03
Phase delay (usec)	-1.57503450183E+04		Apriori clockrate (us/s)		-1.8479752E-08		Resid phdelay (usec)		-1.51609E-06	+/- 3.2E-07
Delay rate (us/s)	7.87321106001E-01		Apriori rate (us/s)		7.87321394171E-01		Resid rate (us/s)		-2.88170E-07	+/- 1.4E-09
Total phase (deg)	-314.9		Apriori accel (us/s/s)		7.44731785165E-05		Resid phase (deg)		-47.0	+/- 10.1
	RMS	Theor.	Amplitude	0.296 +/- 0.026	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	71.4	24.1	Search (2048X32)	0.279	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	77.1	42.1	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	25.1	14.2	Inc. seg. avg.	0.440	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	20.3	24.8	Inc. frq. avg.	0.306	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
b: az 36.7 el 10.7 pa -32.3		Z: az 214.7 el 69.0 pa 21.9		u,v (fr/asec) -5880.248 4437.396						simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.257.zpwuic

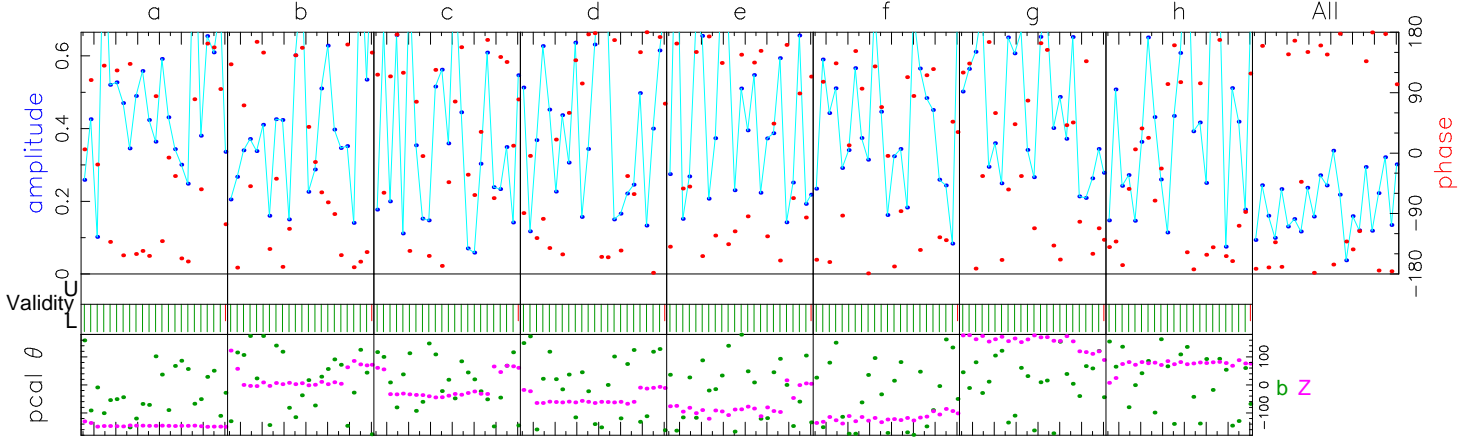


Fringe quality 0
SNR 6.2
Int time 395.318
Amp 0.222
Phase 1254.4
PFD 5.6e-02
Delays (us)
SBD -0.175655
MBD 0.010916
Fringe rate (Hz) 0.843002
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:214:152315
2017:188:152524
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"



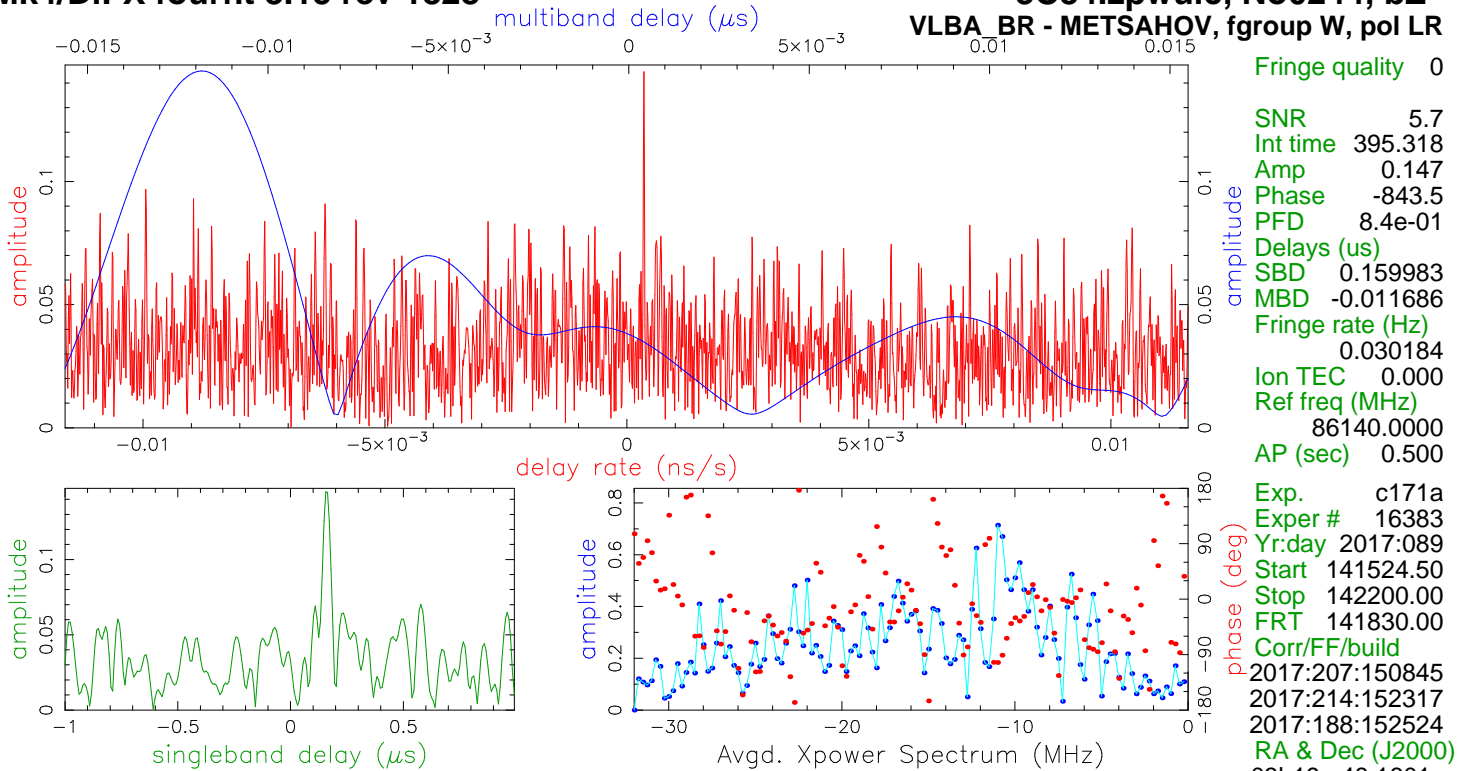
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

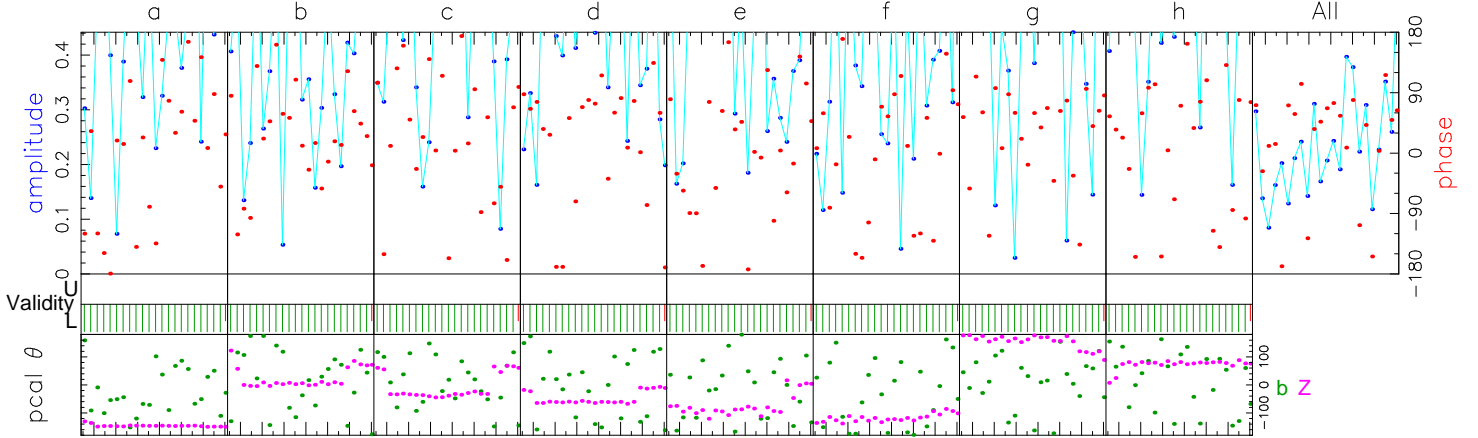


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	174.4	174.4		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.2	0.2		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	106.5	106.5		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	PC freqs		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	PC phase		
b	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	ManI PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	PC amp		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	Tracks		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	Tracks		
Group delay (usec)(sbd)	-1.57505216013E+04		Apriori delay (usec)		-1.57503450168E+04		Resid mbdelay (usec)		1.09155E-02	+/- 3.5E-04		
Sband delay (usec)	-1.57505206723E+04		Apriori clock (usec)		-5.4593148E+00		Resid sbdelay (usec)		-1.75655E-01	+/- 2.8E-03		
Phase delay (usec)	-1.57503450111E+04		Apriori clockrate (us/s)		-1.8479752E-08		Resid phdelay (usec)		5.62392E-06	+/- 5.9E-07		
Delay rate (us/s)	7.87331180593E-01		Apriori rate (us/s)		7.87321394171E-01		Resid rate (us/s)		9.78642E-06	+/- 2.6E-09		
Total phase (deg)	986.5		Apriori accel (us/s/s)		7.44731785165E-05		Resid phase (deg)		1254.4	+/- 18.4		
RMS	Theor.	Amplitude	0.222 +/- 0.036		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000	
ph/seg (deg)	42.7	44.0	Search (2048X32)		0.154		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016	
amp/seg (%)	51.8	76.8	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	26.2	26.0	Inc. seg. avg.		0.200		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00	
amp/frq (%)	31.7	45.3	Inc. frq. avg.		0.213		Data rate(Mb/s): 1024		nlags: 128	t_cohere infinite		

b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.258.zpwuic



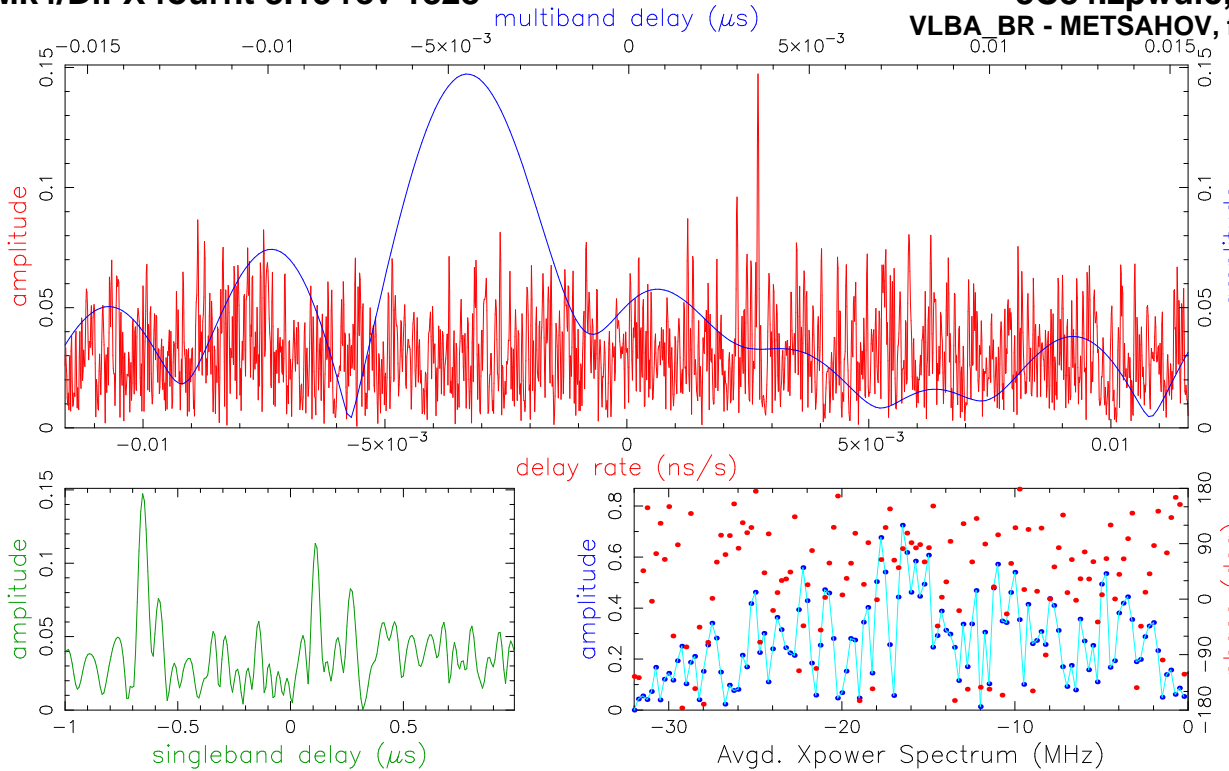
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	Ampl.	0.1	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	149.5	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase		
Z	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC amp		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
									Tracks		
Group delay (usec)(sbd)	-1.57502004529E+04			Apriori delay (usec)	-1.57503450168E+04			Resid mbdelay (usec)	-1.16861E-02	+/- 3.8E-04	
Sband delay (usec)	-1.57501850338E+04			Apriori clock (usec)	-5.4593148E+00			Resid sbdelay (usec)	1.59983E-01	+/- 3.0E-03	
Phase delay (usec)	-1.57503450149E+04			Apriori clockrate (us/s)	-1.8479752E-08			Resid phdelay (usec)	1.82273E-06	+/- 6.5E-07	
Delay rate (us/s)	7.87321744580E-01			Apriori rate (us/s)	7.87321394171E-01			Resid rate (us/s)	3.50409E-07	+/- 2.9E-09	
Total phase (deg)		-1111.4		Apriori accel (us/s/s)	7.44731785165E-05			Resid phase (deg)	-843.5	+/- 20.2	
	RMS	Theor.	Amplitude	0.147 +/- 0.026				Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	73.7	48.5	Search (2048X32)	0.143				Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	88.5	84.7	Interp.	0.000				Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	24.8	28.6	Inc. seg. avg.	0.173				Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	47.3	50.0	Inc. frq. avg.	0.136				Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.259.zpwuic

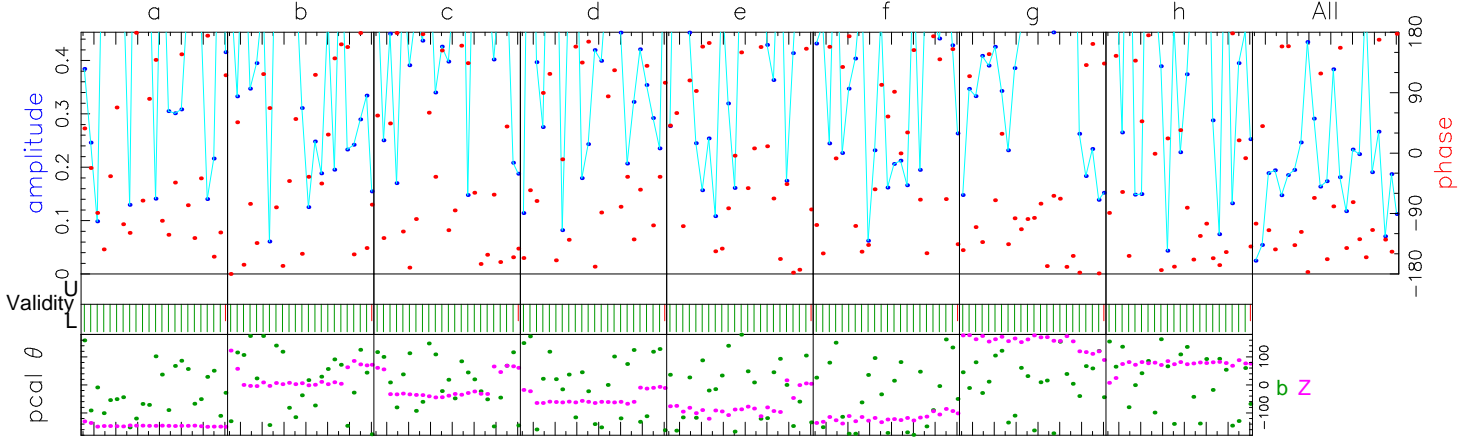


Fringe quality 0

SNR 5.7
 Int time 395.318
 Amp 0.151
 Phase 3636.8
 PFD 8.1e-01
 Delays (us)
 SBD -0.654554
 MBD -0.004460
 Fringe rate (Hz) 0.233282
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152319
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-111.2	-164.5	-145.5	-159.7	-178.0	-162.6	-127.5	-139.8		-143.2
	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	Ampl.	0.1
	145.8	72.7	196.3	53.8	207.5	57.2	46.1	42.7	Sbd box	45.2
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.57510057265E+04		Apriori delay (usec)		-1.57503450168E+04		Resid mbdelay (usec)		-4.45975E-03	+/- 3.8E-04
Sband delay (usec)	-1.57509995713E+04		Apriori clock (usec)		-5.4593148E+00		Resid sbdelay (usec)		-6.54554E-01	+/- 3.0E-03
Phase delay (usec)	-1.57503450214E+04		Apriori clockrate (us/s)		-1.8479752E-08		Resid phdelay (usec)		-4.61677E-06	+/- 6.5E-07
Delay rate (us/s)	7.87324102347E-01		Apriori rate (us/s)		7.87321394171E-01		Resid rate (us/s)		2.70818E-06	+/- 2.9E-09
Total phase (deg)	3728.9		Apriori accel (us/s/s)		7.44731785165E-05		Resid phase (deg)		3636.8	+/- 20.2

ph/seg (deg) 57.6 48.4
 amp/seg (%) 87.6 84.5
 ph/frq (deg) 24.5 28.5
 amp/frq (%) 38.1 49.8

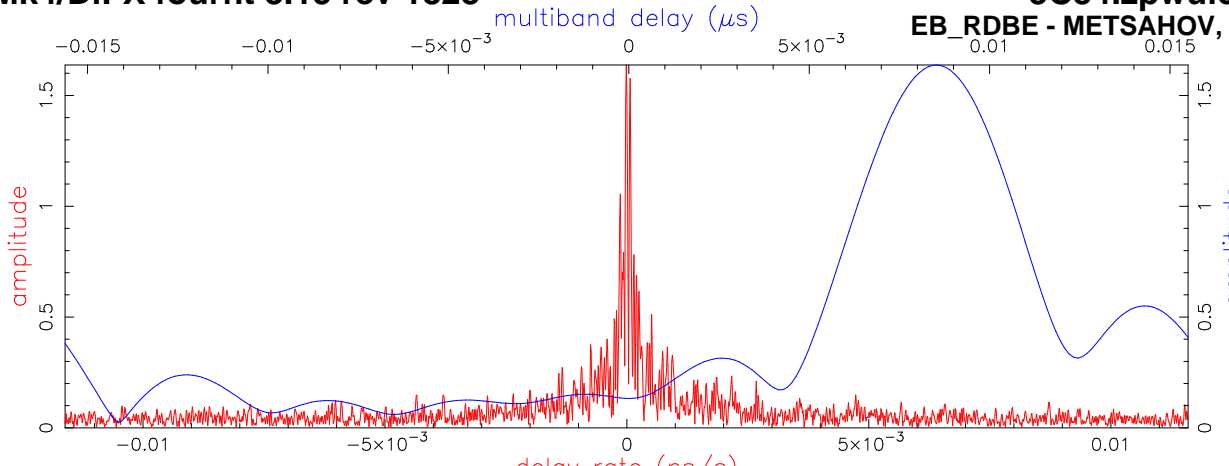
RMS Theor. Amplitude 0.151 +/- 0.027
 Search (2048X32) 0.145
 Interp. 0.000
 Inc. seg. avg. 0.158
 Inc. frq. avg. 0.142

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(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

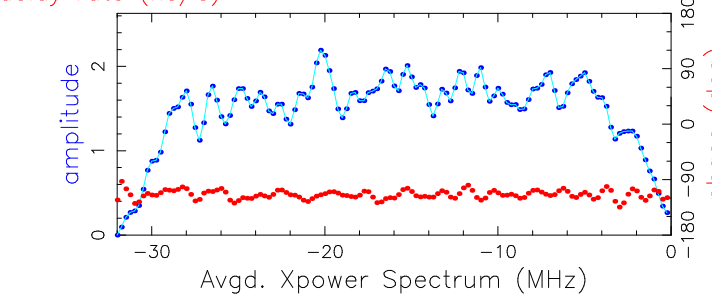
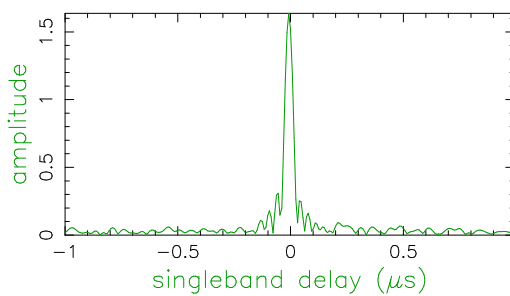
sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.012 0.012
 ion window (TEC) 0.00 0.00

b: az 36.7 el 10.7 pa -32.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -5880.248 4437.396 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/bZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/bZ.W.260.zpwuic

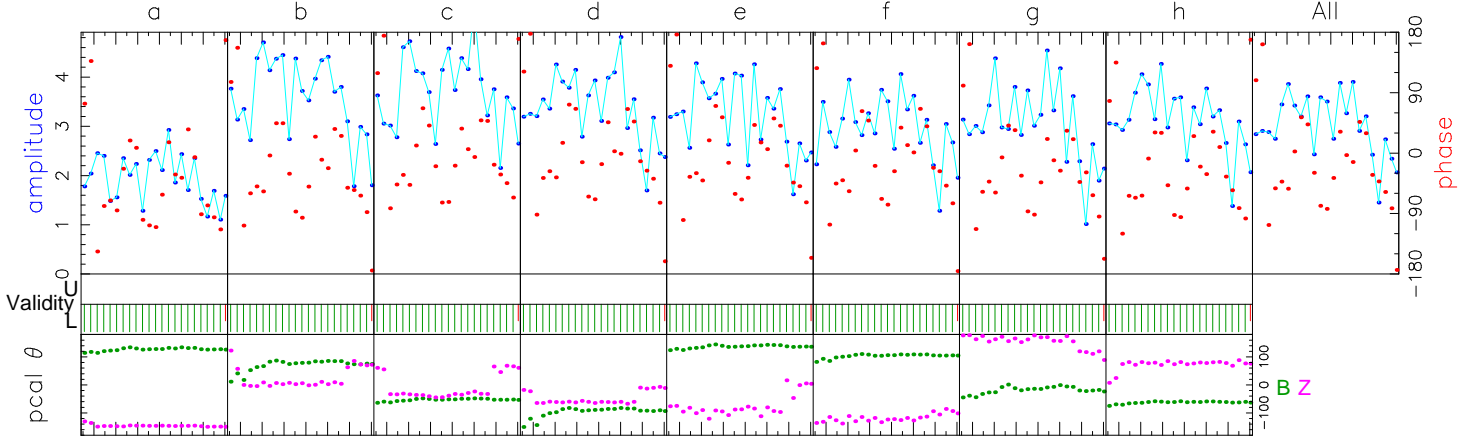


Fringe quality 3
 SNR 63.0
 Int time 395.251
 Amp 1.638
 Phase 158.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.007487
 MBD 0.008527
 Fringe rate (Hz)
 -0.000625
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



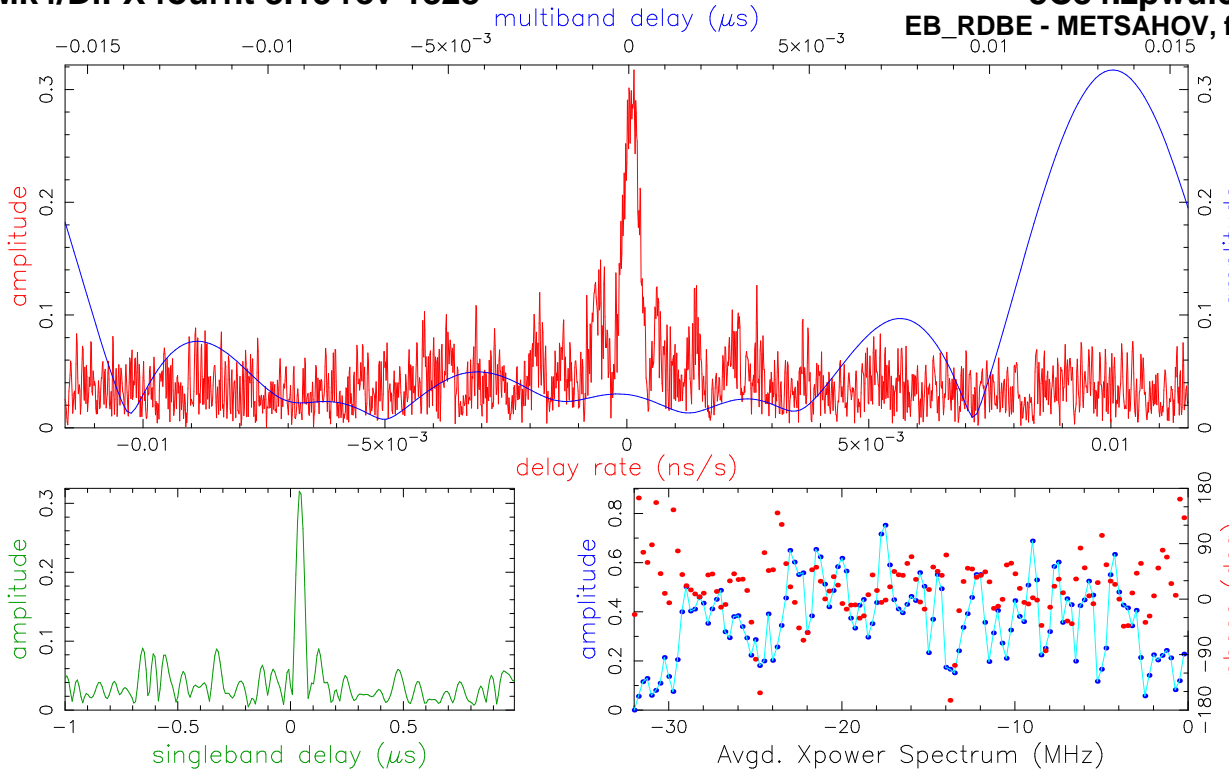
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152321
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791			
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
Z	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)		1.23034020322E+03				1.23036292651E+03			8.52671E-03	+/- 3.4E-05	
Sband delay (usec)		1.23035543951E+03				2.7746971E+01			-7.48700E-03	+/- 2.7E-04	
Phase delay (usec)		1.23036292580E+03				-5.5506642E-08			-7.08447E-07	+/- 5.9E-08	
Delay rate (us/s)		1.75717734294E-01				1.75717741554E-01			-7.25926E-09	+/- 2.6E-10	
Total phase (deg)			334.3			-1.36003526519E-05			158.0	+/- 1.8	
	RMS	Theor.	Amplitude								
ph/seg (deg)	68.2	4.4	Search (2048X32)	1.606		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	92.7	7.6	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
ph/frq (deg)	17.6	2.6	Inc. seg. avg.	3.024		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
amp/frq (%)	20.4	4.5	Inc. frq. avg.	1.681		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
						Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00	
						nlags: 128		t_cohere infinite			

B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.261.zpwuic

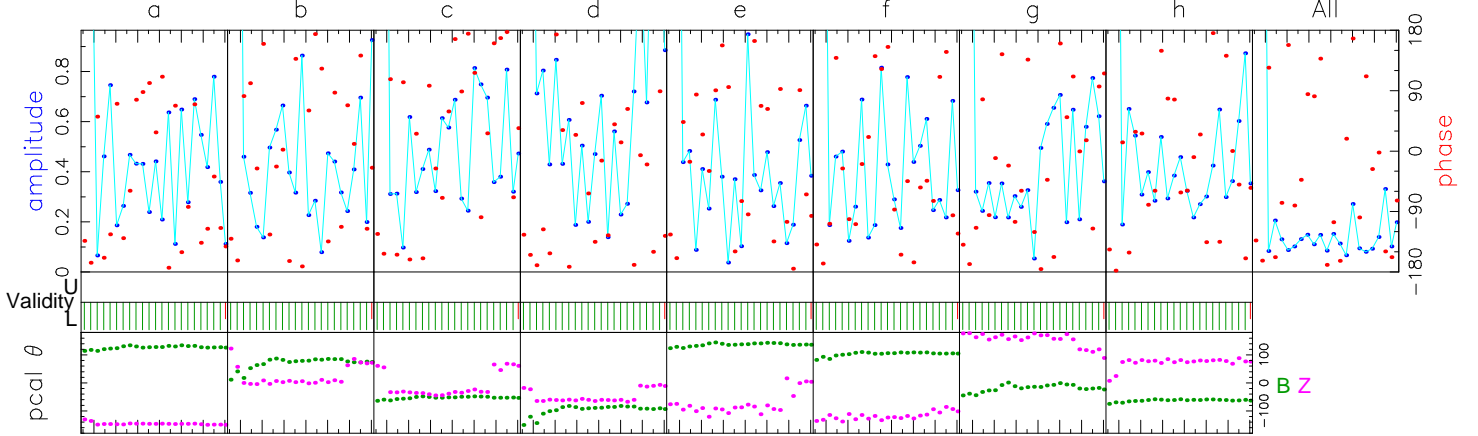


Fringe quality 9

SNR 12.4
 Int time 395.251
 Amp 0.322
 Phase -328.5
 PFD 1.0e-26
 Delays (us)
 SBD 0.042333
 MBD 0.013407
 Fringe rate (Hz) 0.012443
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build 2017:207:150845
 2017:214:152323
 2017:188:152524
 RA & Dec (J2000) 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-145.6	-153.7	-153.8	-143.3	-146.5	-137.2	-155.8	-150.6	Phase	-148.5
0.2	0.3	0.4	0.3	0.4	0.4	0.4	0.3	Ampl.	0.3
13.7	134.6	133.9	134.6	3.2	135.0	134.1	134.7	Sbd box	134.4
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.23040758350E+03	Apriori delay (usec)	1.23036292651E+03	Resid mbdelay (usec)	1.34070E-02	+/-	1.8E-04		
Sband delay (usec)	1.23040526001E+03	Apriori clock (usec)	2.7746971E+01	Resid sbdelay (usec)	4.23335E-02	+/-	1.4E-03		
Phase delay (usec)	1.23036292172E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	-4.78969E-06	+/-	3.0E-07		
Delay rate (us/s)	1.75717886000E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	1.44447E-07	+/-	1.3E-09		
Total phase (deg)		Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	-328.5	+/-	9.3		

ph/seg (deg) 82.8 22.2
 amp/seg (%) 274.7 38.8
 ph/frq (deg) 6.8 13.1
 amp/frq (%) 18.1 22.9

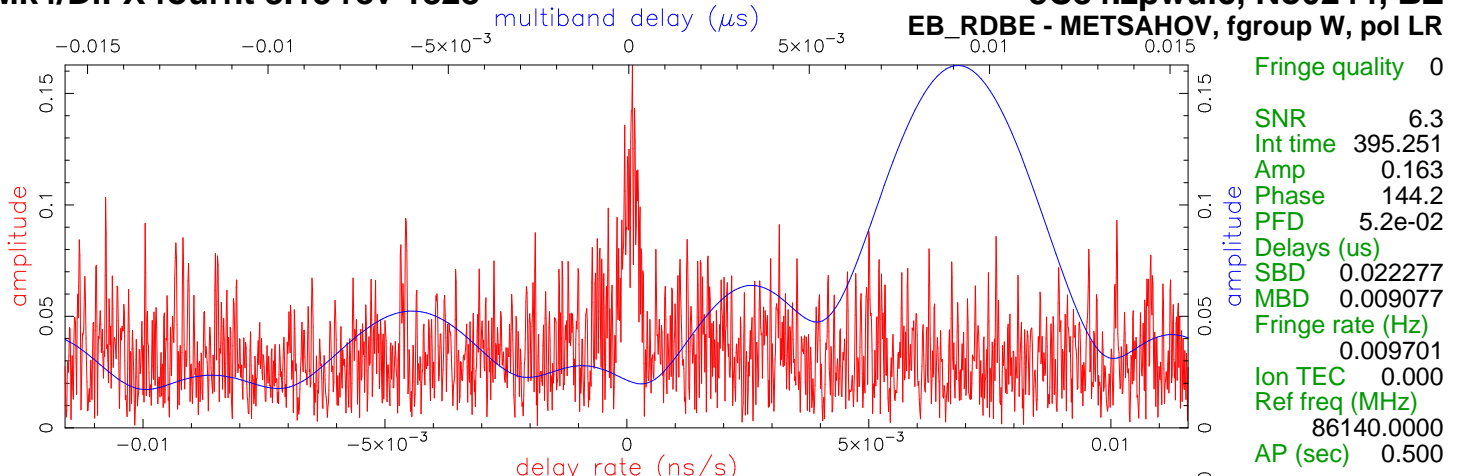
RMS Theor. Amplitude 0.322 +/- 0.026
 Search (2048X32) 0.312
 Interp. 0.000
 Inc. seg. avg. 0.380
 Inc. frq. avg. 0.311

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(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

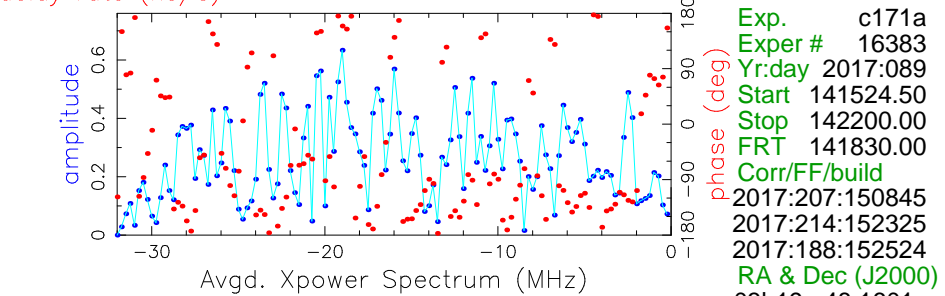
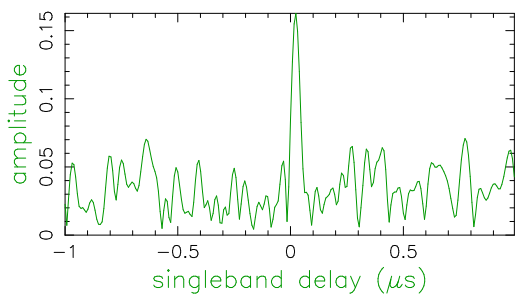
sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.012 0.012
 ion window (TEC) 0.00 0.00

B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.262.zpwuic

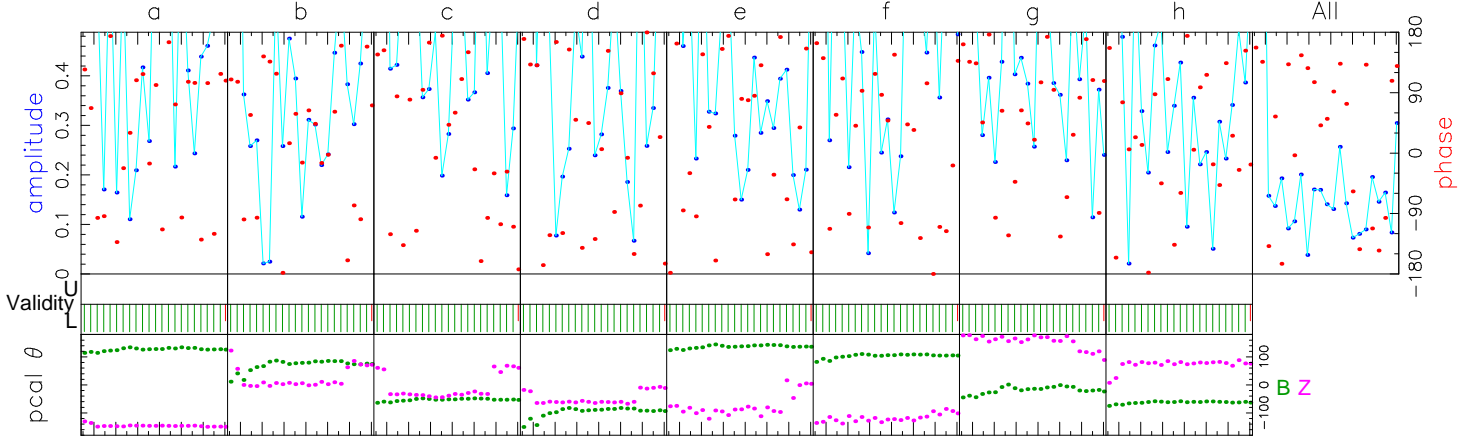


Fringe quality 0
 SNR 6.3
 Int time 395.251
 Amp 0.163
 Phase 144.2
 PFD 5.2e-02
 Delays (us)
 SBD 0.022277
 MBD 0.009077
 Fringe rate (Hz) 0.009701
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



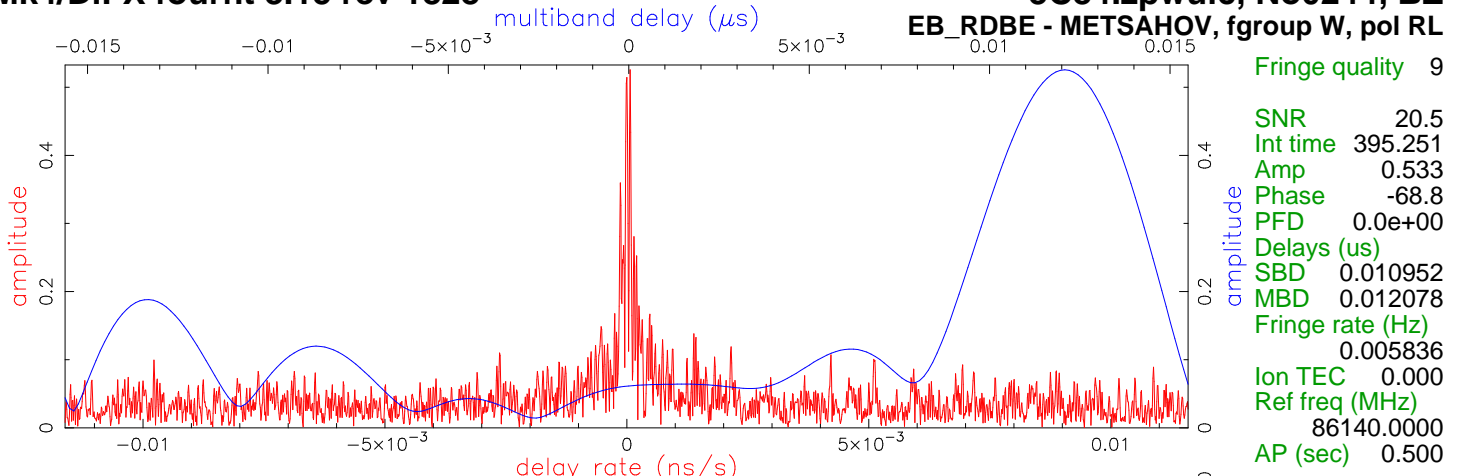
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152325
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

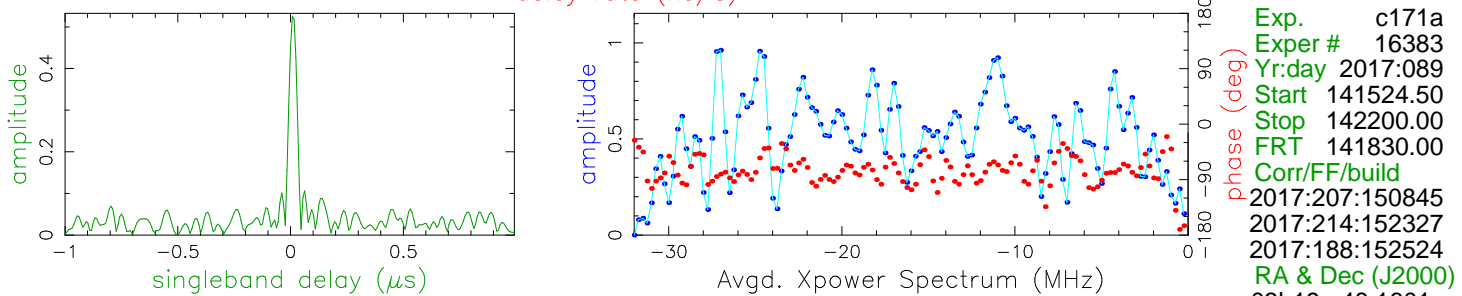


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
134.7	100.4	167.5	161.2	178.9	124.7	137.1	110.5	Phase	144.2
0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	Ampl.	0.2
148.4	201.8	124.8	129.8	3.1	2.1	129.4	162.5	Sbd box	131.9
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.23037200389E+03		Apriori delay (usec)	1.23036292651E+03		Resid mbdelay (usec)	9.07738E-03	+/-	3.5E-04
Sband delay (usec)	1.23038520351E+03		Apriori clock (usec)	2.7746971E+01		Resid sbdelay (usec)	2.22770E-02	+/-	2.8E-03
Phase delay (usec)	1.23036293116E+03		Apriori clockrate (us/s)	-5.5506642E-08		Resid phdelay (usec)	4.64849E-06	+/-	5.9E-07
Delay rate (us/s)	1.75717854171E-01		Apriori rate (us/s)	1.75717741554E-01		Resid rate (us/s)	1.12618E-07	+/-	2.6E-09
Total phase (deg)		320.4	Apriori accel (us/s/s)	-1.36003526519E-05		Resid phase (deg)	144.2	+/-	18.3

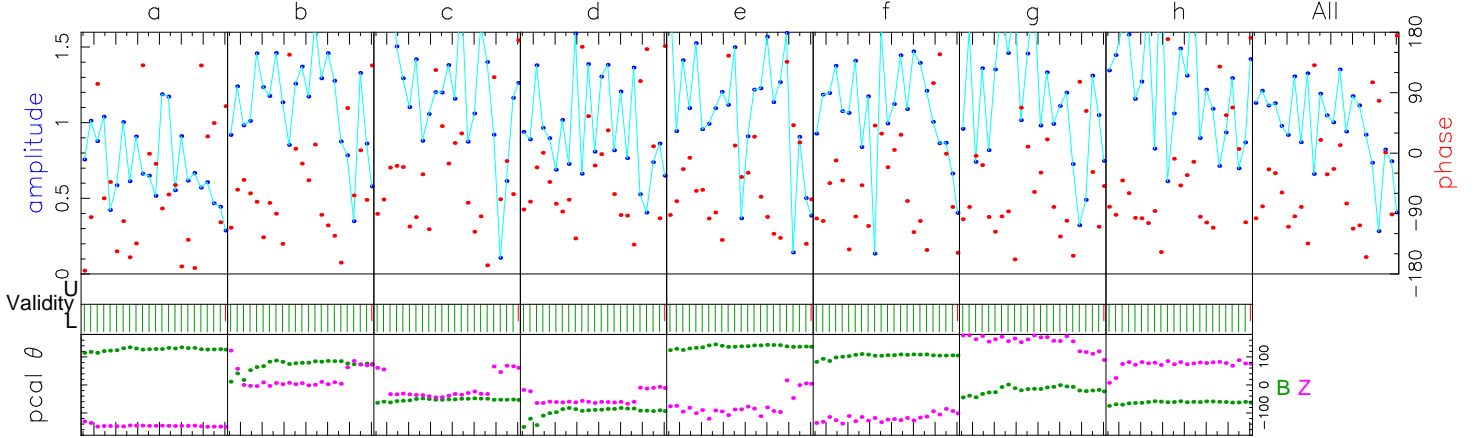
ph/seg (deg) 75.8 Theor. 43.9 Amplitude 0.163 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 217.9 76.6 Search (2048X32) 0.160 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.6 25.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 32.8 45.2 Inc. seg. avg. 0.192 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.263.zpwuic



Fringe quality 9
 SNR 20.5
 Int time 395.251
 Amp 0.533
 Phase -68.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.010952
 MBD 0.012078
 Fringe rate (Hz) 0.005836
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152327
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

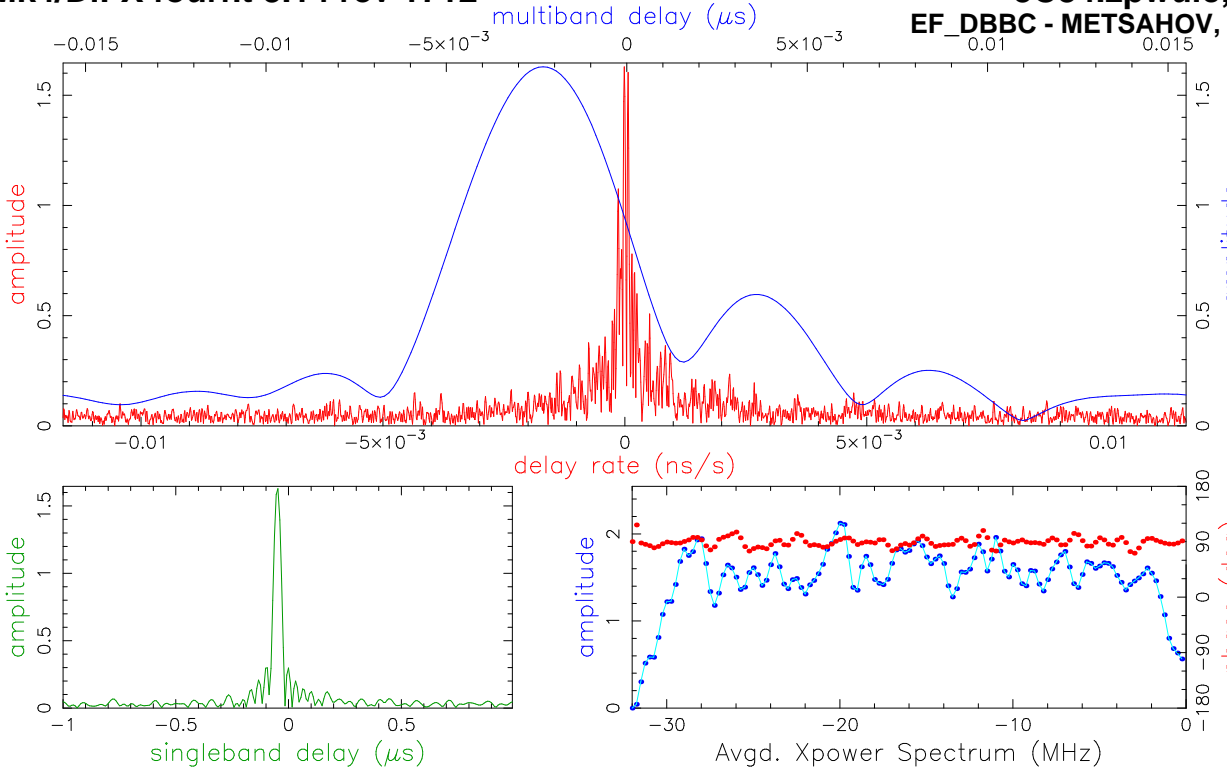


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



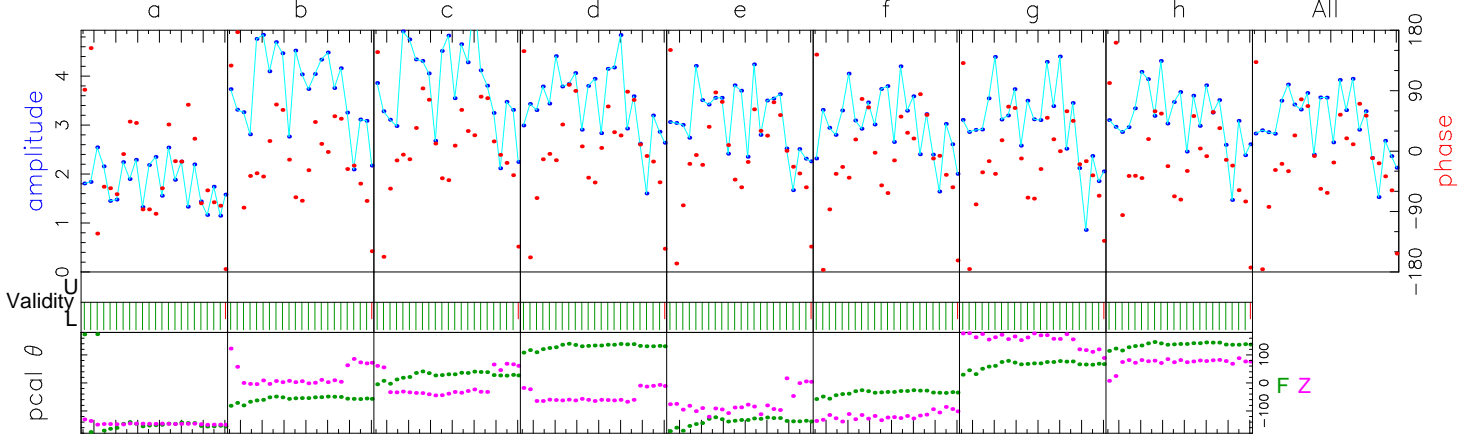
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-107.4	-69.0	-53.1	-57.3	-68.6	-63.9	-71.7	-76.0	Phase	-68.8	
	0.3	0.6	0.6	0.4	0.5	0.7	0.7	0.7	Ampl.	0.5	
	130.1	130.7	130.8	130.3	130.5	129.8	130.6	130.6	Sbd box	130.4	
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
Z	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	1.23037500449E+03		Apriori delay (usec)		1.23036292651E+03		Resid mbdelay (usec)		1.20780E-02	+/- 1.1E-04	
Sband delay (usec)	1.23037387851E+03		Apriori clock (usec)		2.7746971E+01		Resid sbdelay (usec)		1.09520E-02	+/- 8.4E-04	
Phase delay (usec)	1.23036292429E+03		Apriori clockrate (us/s)		-5.5506642E-08		Resid phdelay (usec)		-2.21995E-06	+/- 1.8E-07	
Delay rate (us/s)	1.75717809307E-01		Apriori rate (us/s)		1.75717741554E-01		Resid rate (us/s)		6.77538E-08	+/- 7.9E-10	
Total phase (deg)	107.4		Apriori accel (us/s/s)		-1.36003526519E-05		Resid phase (deg)		-68.8	+/- 5.6	
RMS	76.1	13.4	Amplitude	0.533 +/- 0.026		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	76.1	13.4	Search (2048X32)	0.518		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	97.6	23.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	18.0	7.9	Inc. seg. avg.	0.957		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)	23.4	13.8	Inc. frq. avg.	0.533		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00	
						nlags: 128 t_cohere infinite					

B: az 171.9 el 81.0 pa -6.1 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/BZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/BZ.W.264.zpwuic



Fringe quality 3
SNR 63.3
Int time 395.318
Amp 1.646
Phase 360.9
PFD 0.0e+00
Delays (us)
SBD -0.049557
MBD -0.002326
Fringe rate (Hz)
 -0.000602
Ion TEC 0.000
Ref freq (MHz)
 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
 2017:207:150845
 2017:208:113657
 2017:170:130423
RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

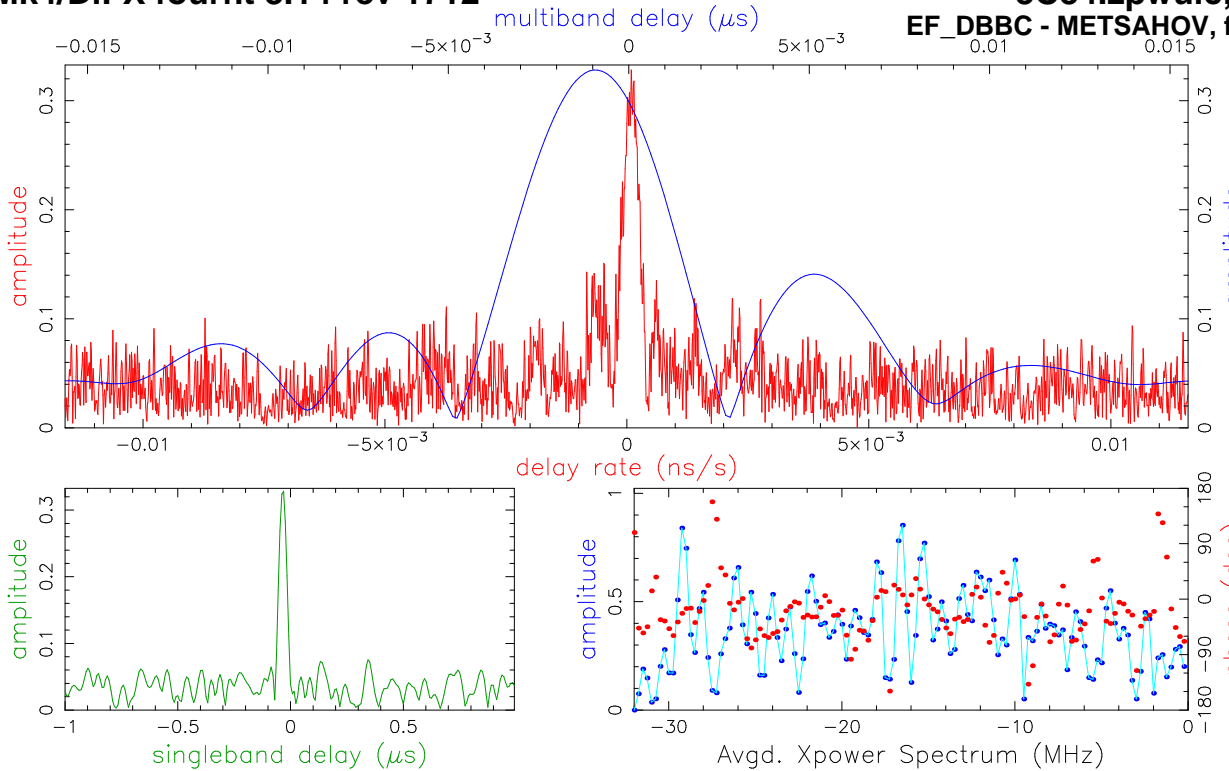


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-36.3	-9.1	16.9	15.9	10.4	-2.0	-4.0	-8.7	Phase	0.9
	0.8	2.0	2.2	1.8	1.6	1.6	1.7	1.7	Ampl.	1.7
	121.7	123.3	122.7	122.7	122.4	122.7	122.7	122.9	Sbd box	122.7
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	1.22985810047E+03	Apriori delay (usec)	1.22992292651E+03	Resid mbdelay (usec)	-2.32604E-03	+/-	3.4E-05
Sband delay (usec)	1.22987336901E+03	Apriori clock (usec)	2.7306971E+01	Resid sbdelay (usec)	-4.95575E-02	+/-	2.7E-04
Phase delay (usec)	1.22992292654E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	2.75575E-08	+/-	5.8E-08
Delay rate (us/s)	1.75717734561E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	-6.99298E-09	+/-	2.6E-10
Total phase (deg)	681.1	Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	360.9	+/-	1.8

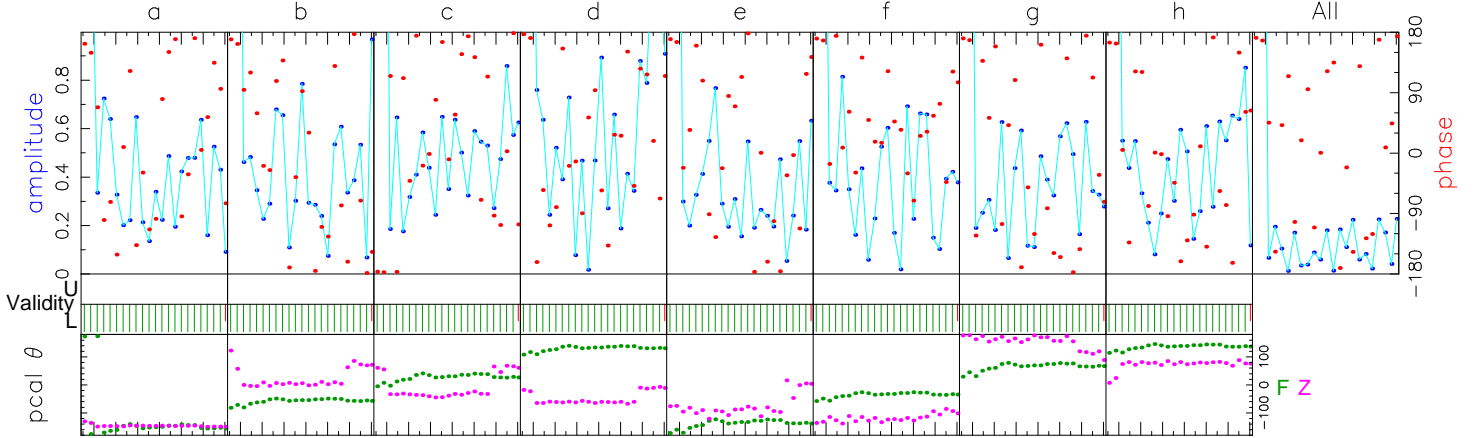
ph/seg (deg)	68.6	RMS	4.3	Theor.	4.3	Amplitude	1.646 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	92.7	Search (2048X32)	1.586	Interp.	0.000	Apriori	1.586	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	19.0	Inc. seg. avg.	3.037	Inc. frq. avg.	1.677	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016 0.016
amp/frq (%)	23.2	u,v (fr/asec)	-1370.368 -1570.069	ion window (TEC)	0.00	Sample rate (MSamp/s):	64	nlags:	128	t_cohere	infinite

F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.121.zpwuic



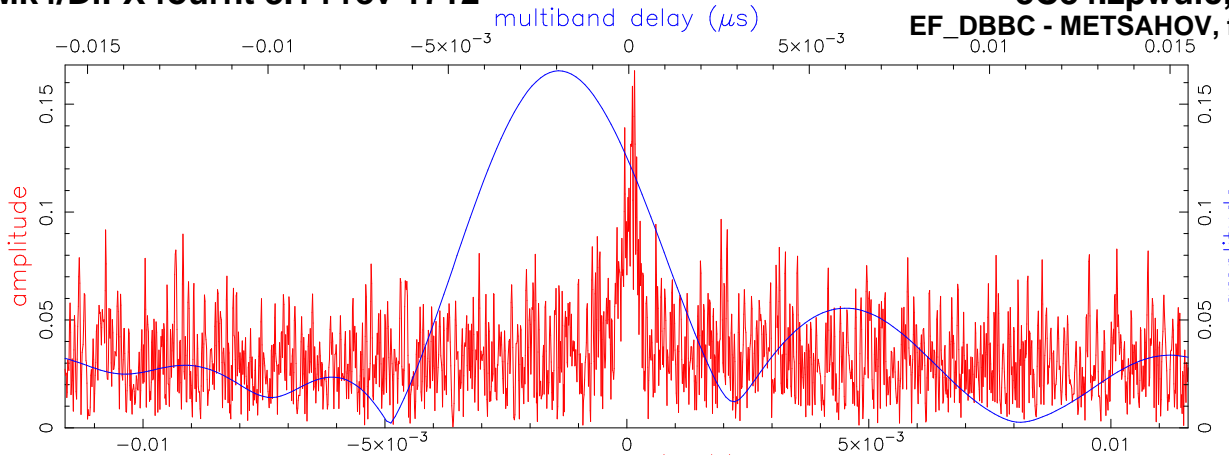
Fringe quality 9
SNR 12.8
Int time 395.318
Amp 0.333
Phase 351.6
PFD 5.0e-29
Delays (us)
SBD -0.034480
MBD -0.000943
Fringe rate (Hz) 0.007682
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:208:113659
2017:170:130423
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

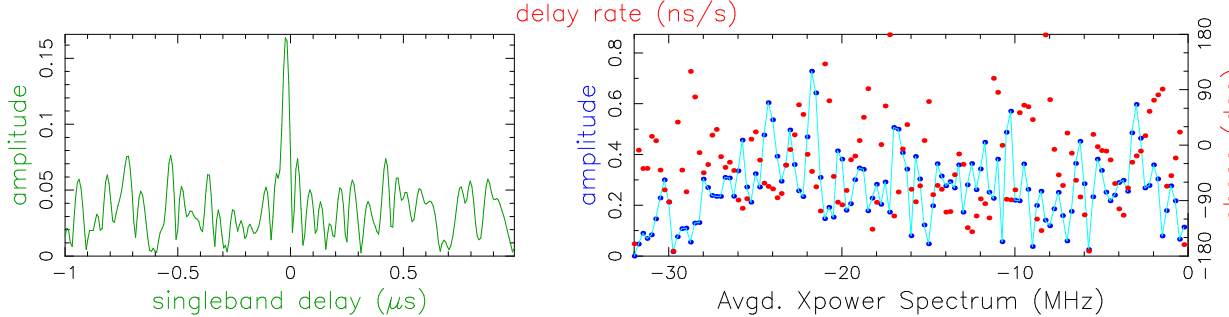


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791			
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
F	1000	1000	1000	1000	1000	1000	1000	1000			
Z	1000	1000	1000	1000	1000	1000	1000	1000			
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
Group delay (usec)(sbd)		1.22989073325E+03		Apriori delay (usec)	1.22992292651E+03		Resid mbdelay (usec)	-9.43261E-04	+/-	1.7E-04	
Sband delay (usec)		1.22988844651E+03		Apriori clock (usec)	2.7306971E+01		Resid sbdelay (usec)	-3.44800E-02	+/-	1.3E-03	
Phase delay (usec)		1.22992293204E+03		Apriori clockrate (us/s)	-5.5506642E-08		Resid phdelay (usec)	5.53209E-06	+/-	2.9E-07	
Delay rate (us/s)		1.75717830731E-01		Apriori rate (us/s)	1.75717741554E-01		Resid rate (us/s)	8.91775E-08	+/-	1.3E-09	
Total phase (deg)			311.8	Apriori accel (us/s/s)	-1.36003526519E-05		Resid phase (deg)			351.6 +/- 9.0	
RMS	93.3	21.5		Amplitude	0.333 +/- 0.026		Pcal mode:	MANUAL, MANUAL		PC period (AP's)	5, 5
ph/seg (deg)	283.5	37.5		Search (2048X32)	0.329		Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
amp/seg (%)	16.0	12.7		Interp.	0.000		Bits/sample:	2x2		SampCntNorm:	enabled
ph/frq (deg)	33.0	22.1		Inc. seg. avg.	0.373		Sample rate (MSamp/s):	64		mb window (us)	-0.016 0.016
amp/frq (%)				Inc. frq. avg.	0.328		Data rate (Mb/s):	1024		dr window (ns/s)	-0.012 0.012
							nlags:	128		ion window (TEC)	0.00 0.00

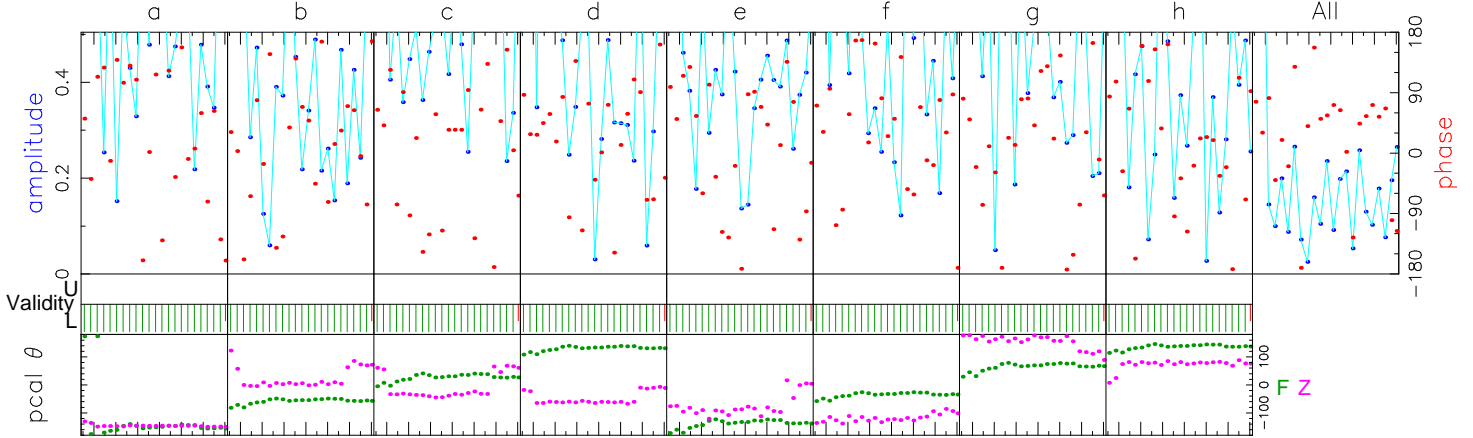
F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.122.zpwuic



Fringe quality 0
 SNR 6.5
 Int time 395.318
 Amp 0.168
 Phase 236.0
 PFD 1.4e-02
 Delays (us)
 SBD -0.020123
 MBD -0.001927
 Fringe rate (Hz) 0.013606
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113701
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

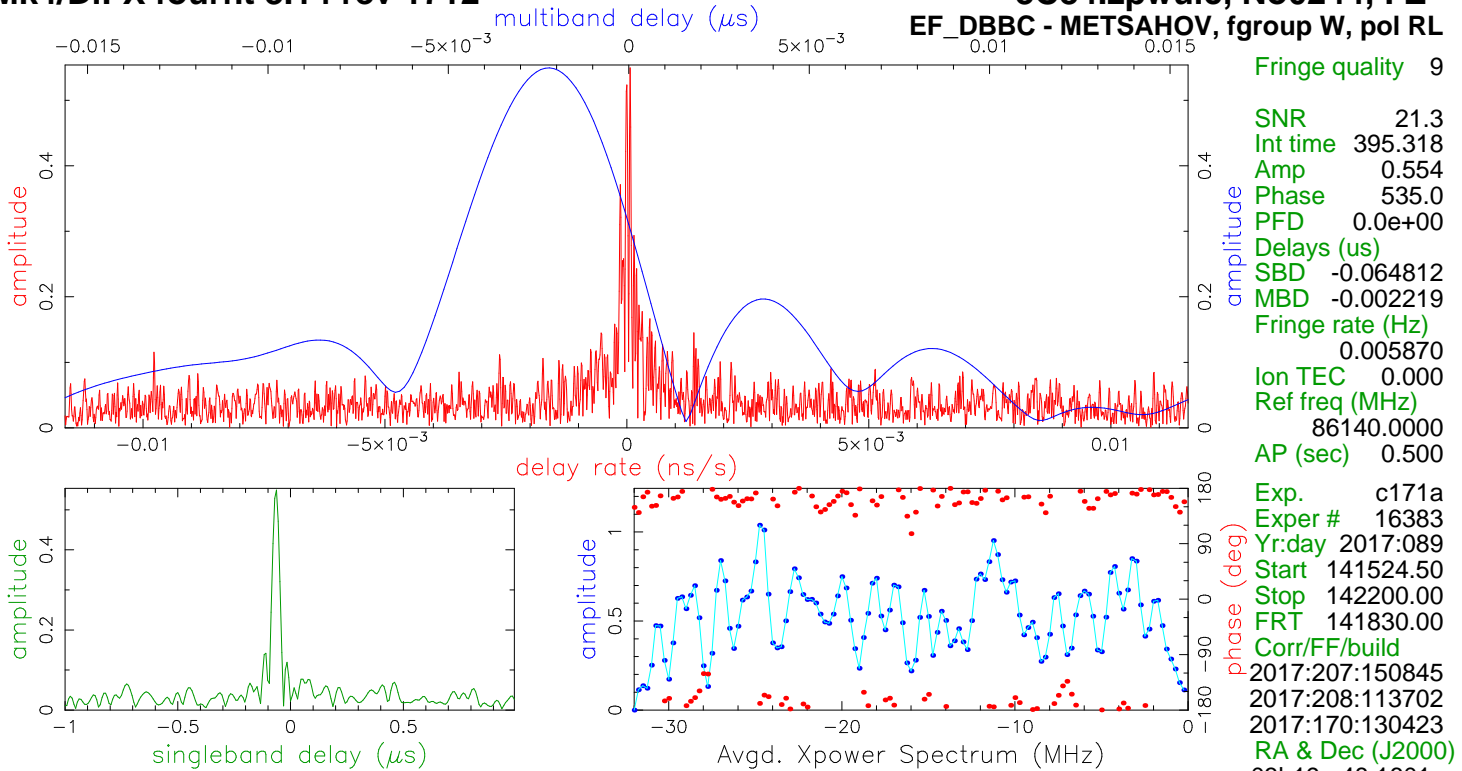


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		

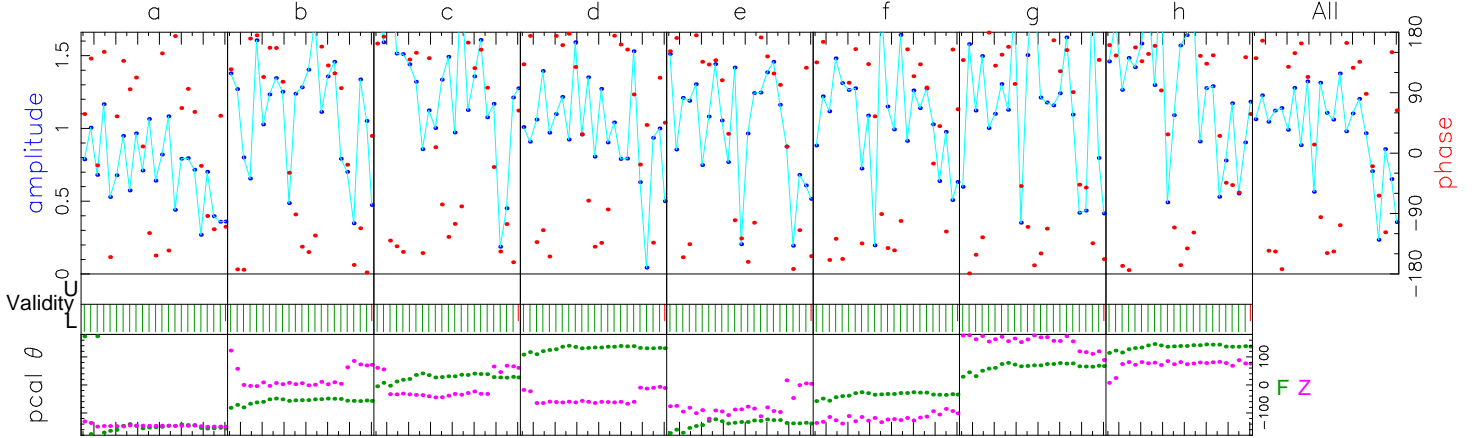
Group delay (usec)(sbd) 1.22988974985E+03 Apriori delay (usec) 1.22992292651E+03 Resid mbdelay (usec) -1.92666E-03 +/- 3.4E-04
 Sband delay (usec) 1.22990280351E+03 Apriori clock (usec) 2.7306971E+01 Resid sbdelay (usec) -2.01230E-02 +/- 2.7E-03
 Phase delay (usec) 1.22992292832E+03 Apriori clockrate (us/s) -5.5506642E-08 Resid phdelay (usec) 1.80601E-06 +/- 5.7E-07
 Delay rate (us/s) 1.75717899506E-01 Apriori rate (us/s) 1.75717741554E-01 Resid rate (us/s) 1.57952E-07 +/- 2.5E-09
 Total phase (deg) 196.3 Apriori accel (us/s/s) -1.36003526519E-05 Resid phase (deg) 236.0 +/- 17.7

RMS Theor. Amplitude 0.168 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 75.6 42.5 Search (2048X32) 0.164 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 200.1 74.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 26.2 25.1 Inc. seg. avg. 0.193 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 39.9 43.7 Inc. frq. avg. 0.158 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.123.zpwuic



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



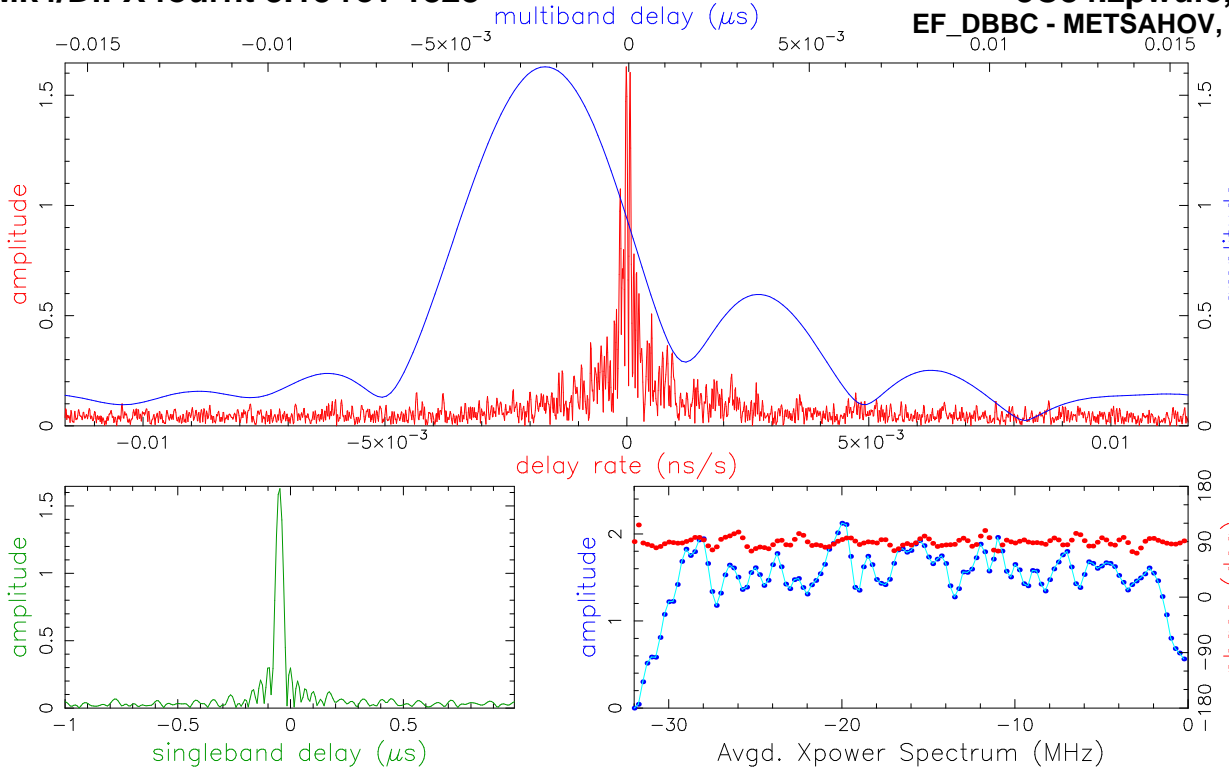
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
132.4	172.9	-164.4	-177.4	164.6	-178.7	179.7	165.1	Phase	175.0
0.2	0.7	0.7	0.5	0.6	0.5	0.7	0.7	Ampl.	0.6
56.9	120.9	120.8	120.4	120.7	120.5	120.8	120.9	Sbd box	120.7
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	1.22985820774E+03	Apriori delay (usec)	1.22992292651E+03	Resid mbdelay (usec)	-2.21877E-03	+/-	1.0E-04
Sband delay (usec)	1.22985811401E+03	Apriori clock (usec)	2.7306971E+01	Resid sbdelay (usec)	-6.48125E-02	+/-	8.1E-04
Phase delay (usec)	1.22992293215E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	5.64215E-06	+/-	1.7E-07
Delay rate (us/s)	1.75717809695E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	6.81413E-08	+/-	7.6E-10
Total phase (deg)	495.2	Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	535.0	+/-	5.4

ph/seg (deg)	73.1	Theor.	12.9	Amplitude	0.554 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	94.5	Search (2048X32)	0.544	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	20.7	Inc. seg. avg.	0.967	Inc. frq. avg.	0.561	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	27.9	Inc. frq. avg.	0.561	u,v (fr/asec)	-1370.368 -1570.069	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

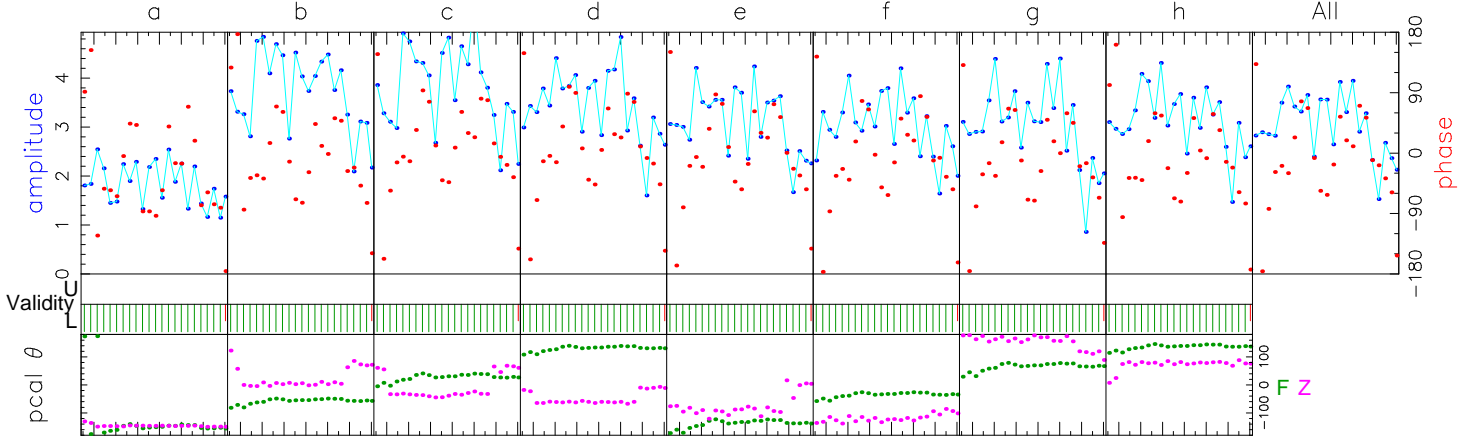
F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.124.zpwiuc



Fringe quality 3
SNR 63.3
Int time 395.318
Amp 1.646
Phase 360.9
PFD 0.0e+00
Delays (us)
SBD -0.049557
MBD -0.002326
Fringe rate (Hz)
-0.000602
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:214:152329
2017:188:152524
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

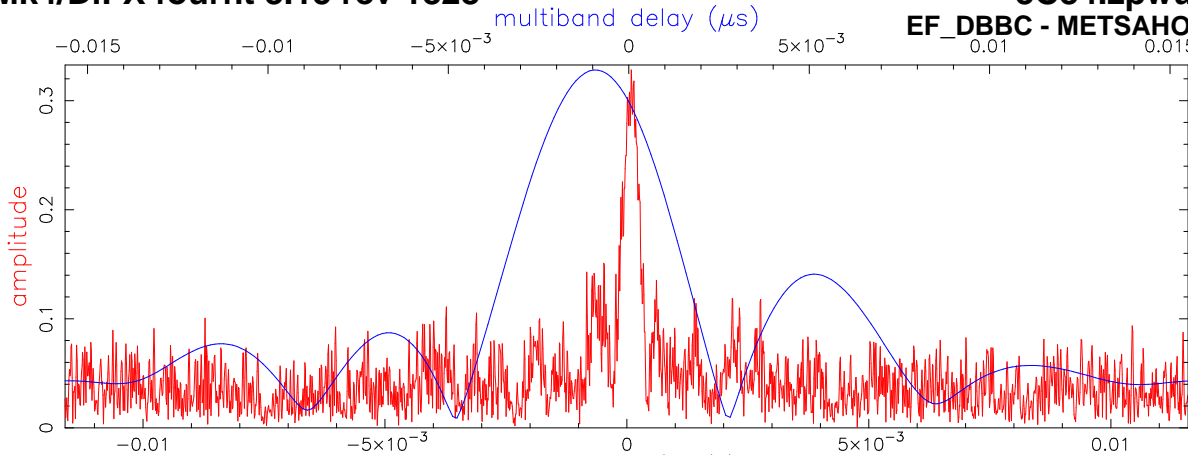


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	Phase	0.9
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	1.7
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	122.7
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC amp	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) 1.22985810047E+03 Apriori delay (usec) 1.22992292651E+03 Resid mbdelay (usec) -2.32604E-03 +/- 3.4E-05
Sband delay (usec) 1.22987336901E+03 Apriori clock (usec) 2.7306971E+01 Resid sbdelay (usec) -4.95575E-02 +/- 2.7E-04
Phase delay (usec) 1.22992292654E+03 Apriori clockrate (us/s) -5.5506642E-08 Resid phdelay (usec) 2.75575E-08 +/- 5.8E-08
Delay rate (us/s) 1.75717734561E-01 Apriori rate (us/s) 1.75717741554E-01 Resid rate (us/s) -6.99298E-09 +/- 2.6E-10
Total phase (deg) 681.1 Apriori accel (us/s/s) -1.36003526519E-05 Resid phase (deg) 360.9 +/- 1.8

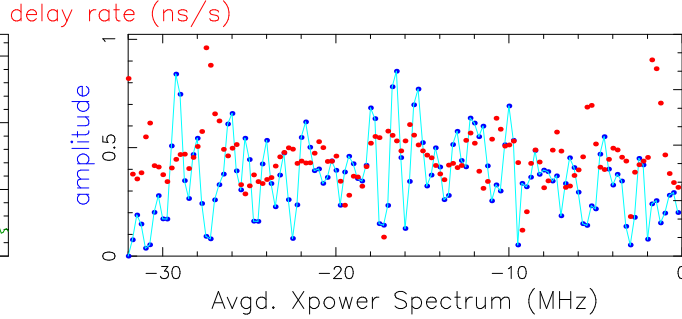
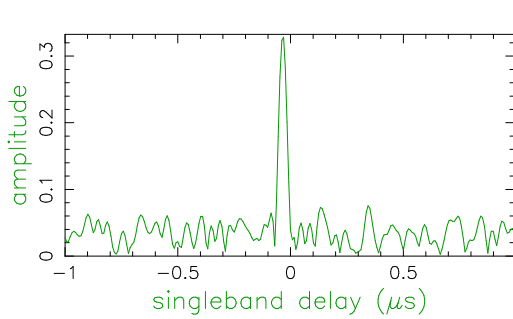
RMS Theor. Amplitude 1.646 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 68.6 4.3 Search (2048X32) 1.586 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 92.7 7.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
ph/frq (deg) 19.0 2.6 Inc. seg. avg. 3.037 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
amp/frq (%) 23.2 4.5 Inc. frq. avg. 1.677 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.265.zpwiuc



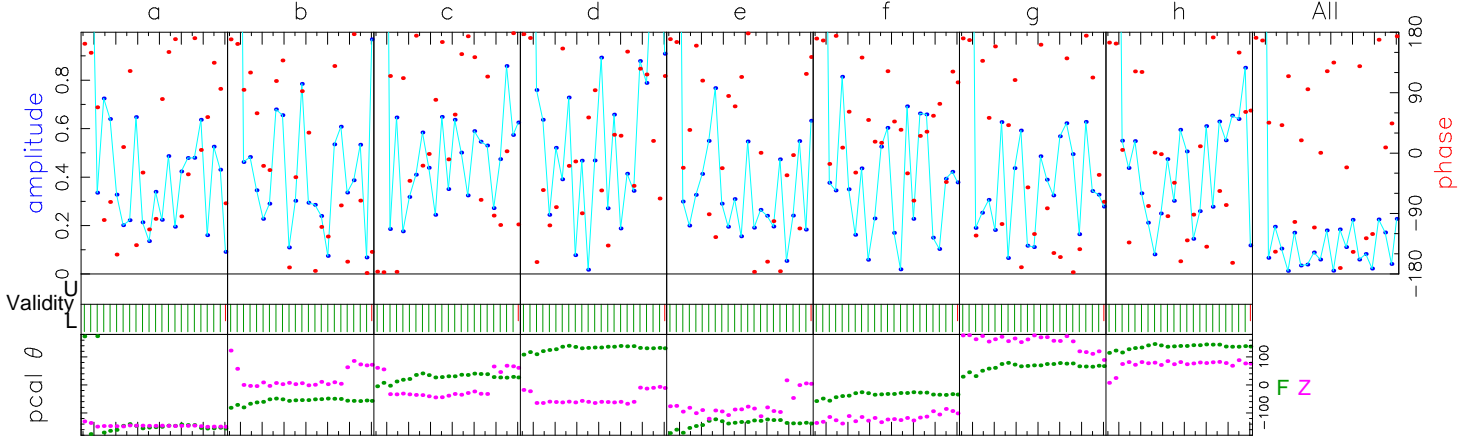
Fringe quality 9

SNR 12.8
 Int time 395.318
 Amp 0.333
 Phase 351.6
 PFD 5.0e-29
 Delays (us)
 SBD -0.034480
 MBD -0.000943
 Fringe rate (Hz)
 0.007682
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152331
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

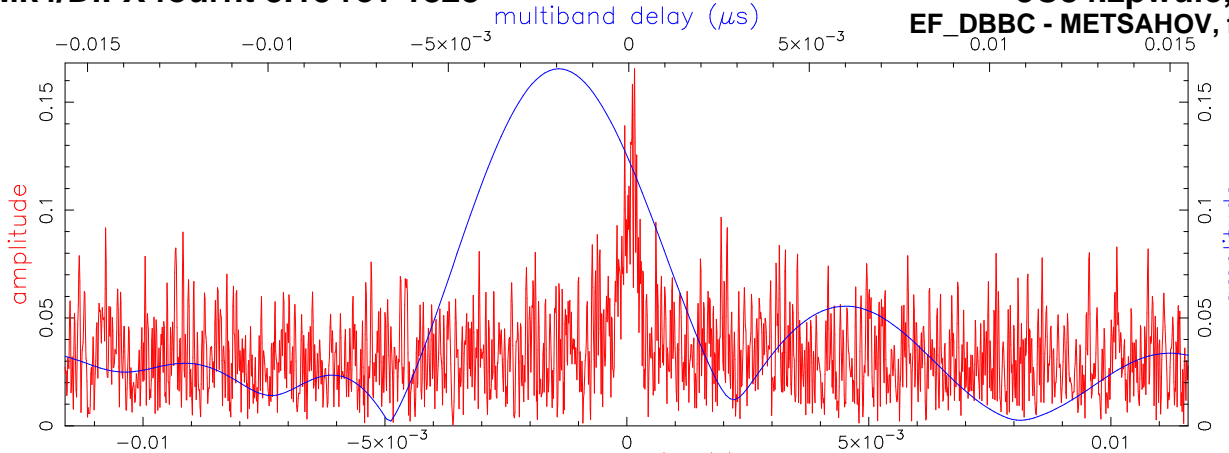


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
176.7	159.8	-179.8	-175.1	174.2	138.8	175.2	176.0	Phase	171.6
0.2	0.4	0.4	0.2	0.3	0.2	0.5	0.4	Ampl.	0.3
85.1	124.8	125.2	115.8	124.8	123.7	124.5	124.9	Sbd box	124.6
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

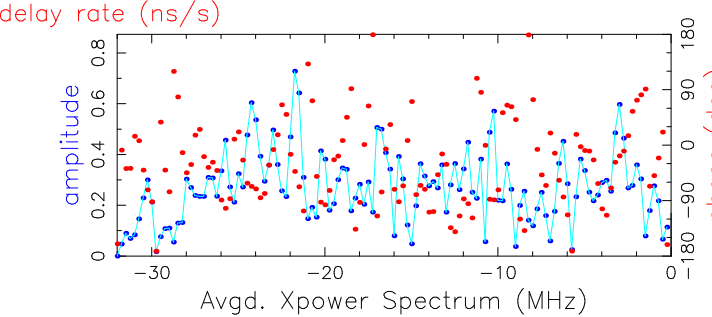
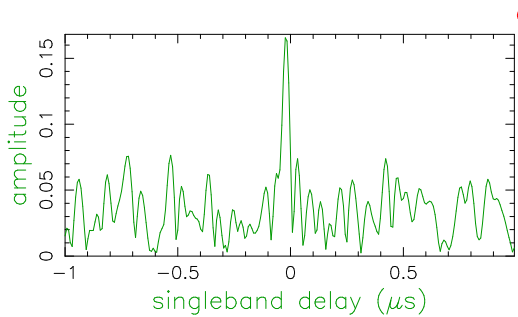
Group delay (usec)(sbd)	1.22989073325E+03	Apriori delay (usec)	1.22992292651E+03	Resid mbdelay (usec)	-9.43261E-04	+/-	1.7E-04
Sband delay (usec)	1.22988844651E+03	Apriori clock (usec)	2.7306971E+01	Resid sbdelay (usec)	-3.44800E-02	+/-	1.3E-03
Phase delay (usec)	1.22992293204E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	5.53209E-06	+/-	2.9E-07
Delay rate (us/s)	1.75717830731E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	8.91775E-08	+/-	1.3E-09
Total phase (deg)	311.8	Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	351.6	+/-	9.0

ph/seg (deg)	93.3	Theor.	21.5	Amplitude	0.333 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	283.5	Search (2048X32)	0.329	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	16.0	Interp.	0.000	Inc. seg. avg.	0.373	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	33.0	Inc. frq. avg.	0.328	Inc. frq. avg.	0.328	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.266.zpwuic

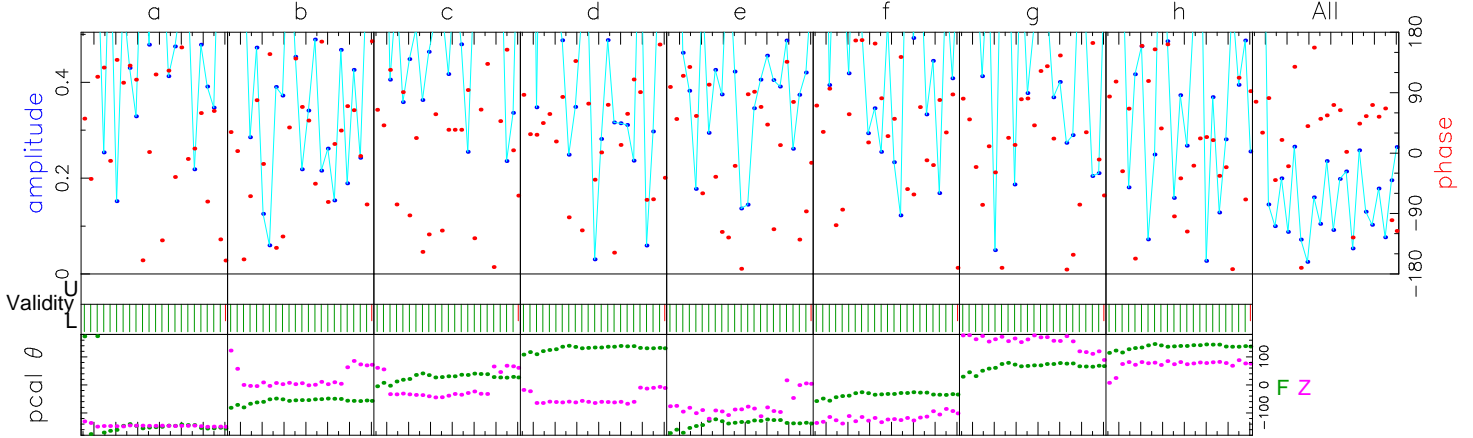


Fringe quality 0
 SNR 6.5
 Int time 395.318
 Amp 0.168
 Phase 236.0
 PFD 1.4e-02
 Delays (us)
 SBD -0.020123
 MBD -0.001927
 Fringe rate (Hz) 0.013606
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152333
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

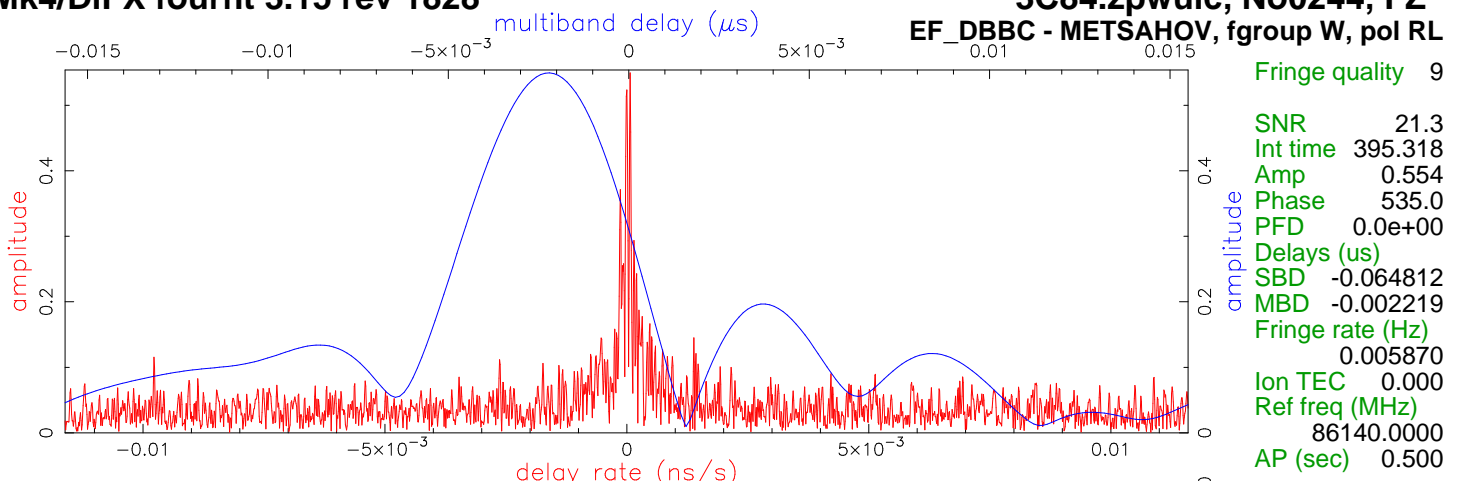


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	1.22988974985E+03	Apriori delay (usec)	1.22992292651E+03	Resid mbdelay (usec)	-1.92666E-03	+/-	3.4E-04
Sband delay (usec)	1.22990280351E+03	Apriori clock (usec)	2.7306971E+01	Resid sbdelay (usec)	-2.01230E-02	+/-	2.7E-03
Phase delay (usec)	1.22992292832E+03	Apriori clockrate (us/s)	-5.5506642E-08	Resid phdelay (usec)	1.80601E-06	+/-	5.7E-07
Delay rate (us/s)	1.75717899506E-01	Apriori rate (us/s)	1.75717741554E-01	Resid rate (us/s)	1.57952E-07	+/-	2.5E-09
Total phase (deg)	196.3	Apriori accel (us/s/s)	-1.36003526519E-05	Resid phase (deg)	236.0	+/-	17.7

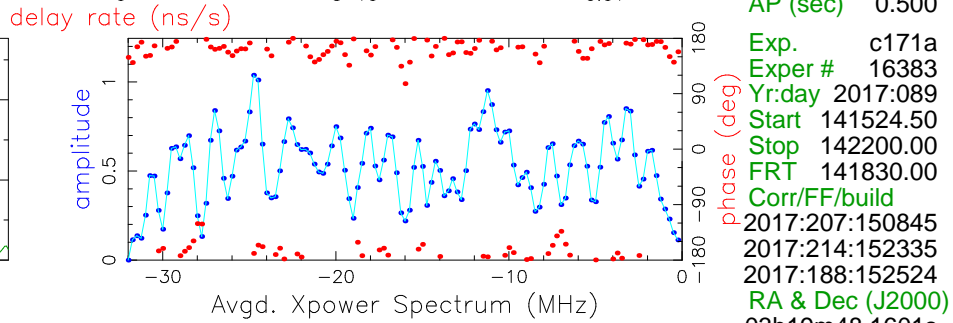
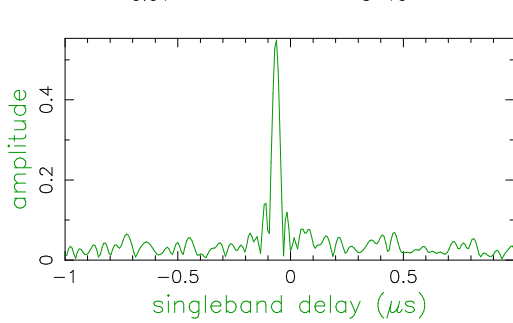
ph/seg (deg)	75.6	Theor.	Amplitude	0.168 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	200.1	42.5	Search (2048X32)	0.164	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	26.2	74.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
amp/frq (%)	39.9	43.7	Inc. seg. avg.	0.193	Sample rate(MSamp/s): 64	ion window (TEC)	0.00 0.00	
			Inc. frq. avg.	0.158	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite		

F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.267.zpwiuc



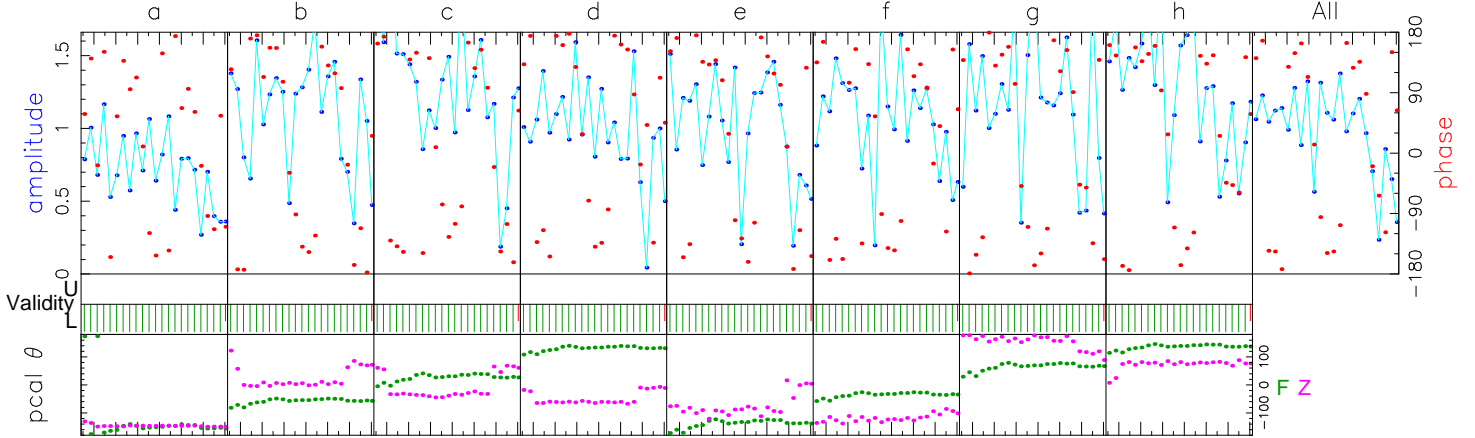
Fringe quality 9

SNR 21.3
 Int time 395.318
 Amp 0.554
 Phase 535.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.064812
 MBD -0.002219
 Fringe rate (Hz) 0.005870
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



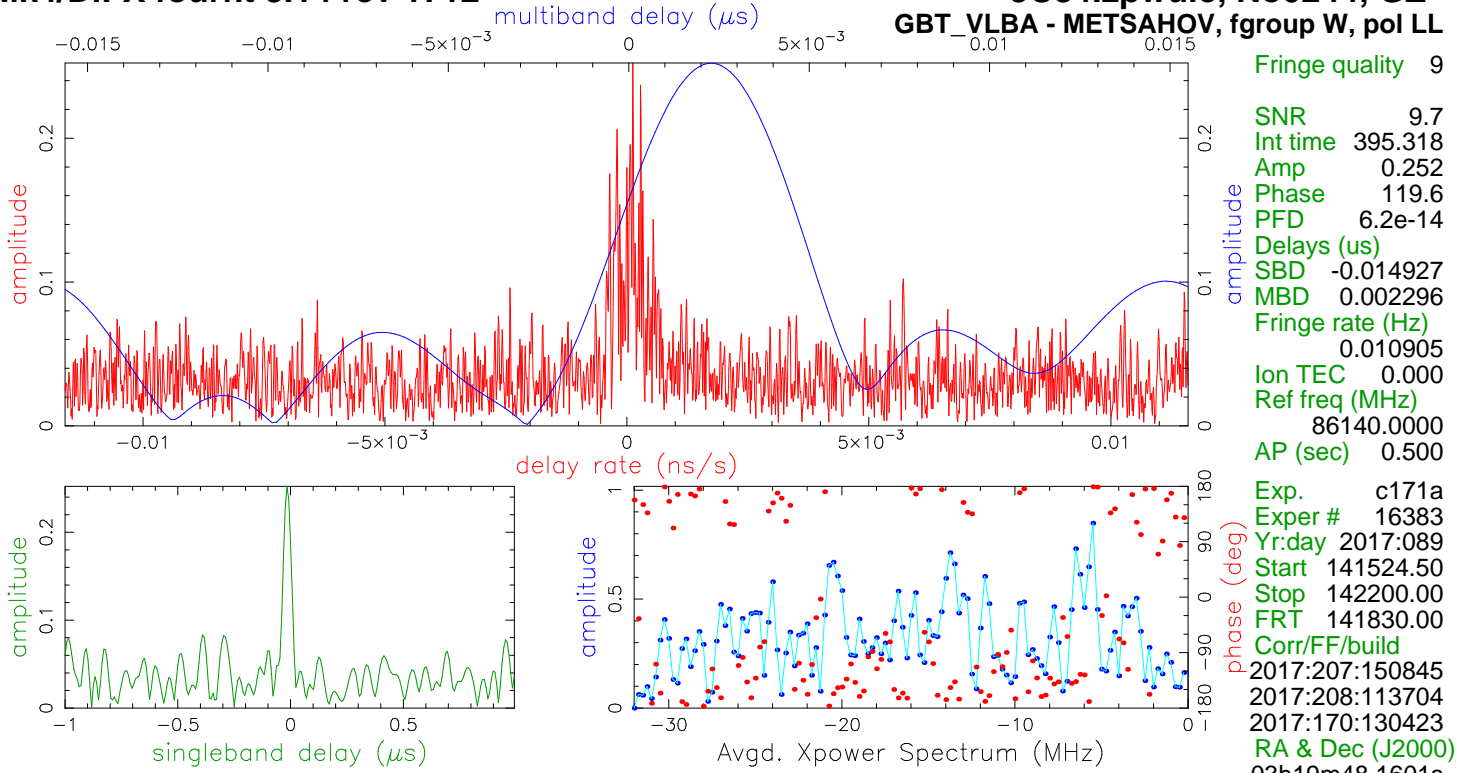
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152335
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	132.4	172.9	-164.4	-177.4	164.6	-178.7	179.7	165.1	Phase	175.0
	0.2	0.7	0.7	0.5	0.6	0.5	0.7	0.7	Ampl.	0.6
	56.9	120.9	120.8	120.4	120.7	120.5	120.8	120.9	Sbd box	120.7
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.22985820774E+03		Apriori delay (usec)		1.22992292651E+03		Resid mbdelay (usec)		-2.21877E-03	+/- 1.0E-04
Sband delay (usec)	1.22985811401E+03		Apriori clock (usec)		2.7306971E+01		Resid sbdelay (usec)		-6.48125E-02	+/- 8.1E-04
Phase delay (usec)	1.22992293215E+03		Apriori clockrate (us/s)		-5.5506642E-08		Resid phdelay (usec)		5.64215E-06	+/- 1.7E-07
Delay rate (us/s)	1.75717809695E-01		Apriori rate (us/s)		1.75717741554E-01		Resid rate (us/s)		6.81413E-08	+/- 7.6E-10
Total phase (deg)	495.2		Apriori accel (us/s/s)		-1.36003526519E-05		Resid phase (deg)		535.0	+/- 5.4

ph/seg (deg) 73.1 12.9 Search (2048X32) 0.544 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 94.5 22.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.7 7.6 Inc. seg. avg. 0.967 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 27.9 13.3 Inc. frq. avg. 0.561 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 F: az 171.9 el 81.0 pa -3.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -1370.368 -1570.069 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/FZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/FZ.W.268.zpwiuc



Fringe quality 9

SNR 9.7

Int time 395.318

Amp 0.252

Phase 119.6

PFD 6.2e-14

Delays (us)

SBD -0.014927

MBD 0.002296

Fringe rate (Hz) 0.010905

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:089

Start 141524.50

Stop 142200.00

FRT 141830.00

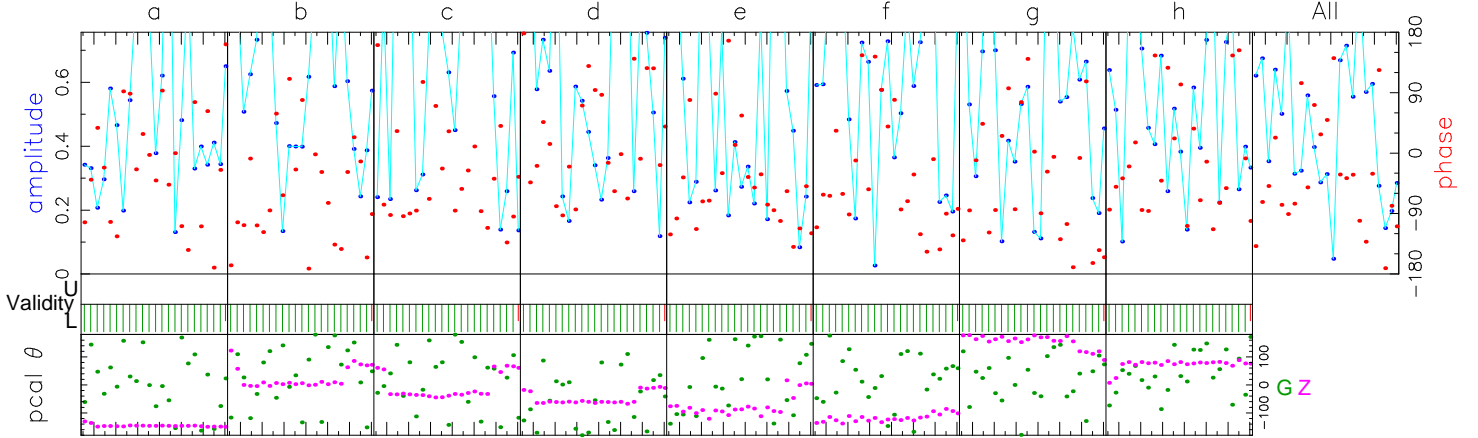
Corr/FF/build 2017:207:150845

2017:208:113704

2017:170:130423

RA & Dec (J2000) 03h19m48.1601s +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-37.6	-90.2	-53.2	-20.7	-74.7	-62.5	-88.3	-43.7	Phase	-60.4
	0.2	0.3	0.4	0.2	0.4	0.3	0.2	0.2	Ampl.	0.3
	177.9	127.2	127.4	127.2	127.0	23.7	138.0	246.1	Sbd box	127.1
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd) -1.04744828361E+04 Apriori delay (usec) -1.04744538824E+04 Resid mbdelay (usec) 2.29635E-03 +/- 2.2E-04

Sband delay (usec) -1.04744688094E+04 Apriori clock (usec) -1.2269488E+01 Resid sbdelay (usec) -1.49270E-02 +/- 1.8E-03

Phase delay (usec) -1.04744538844E+04 Apriori clockrate (us/s) 2.0089345E-07 Resid phdelay (usec) -1.94754E-06 +/- 3.8E-07

Delay rate (us/s) 1.07795571974E+00 Apriori rate (us/s) 1.07795559314E+00 Resid rate (us/s) 1.26601E-07 +/- 1.7E-09

Total phase (deg) -35.6 Apriori accel (us/s/s) 3.71669455795E-05 Resid phase (deg) 119.6 +/- 11.8

RMS Theor. Amplitude 0.252 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 83.9 28.3 Search (2048X32) 0.248 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

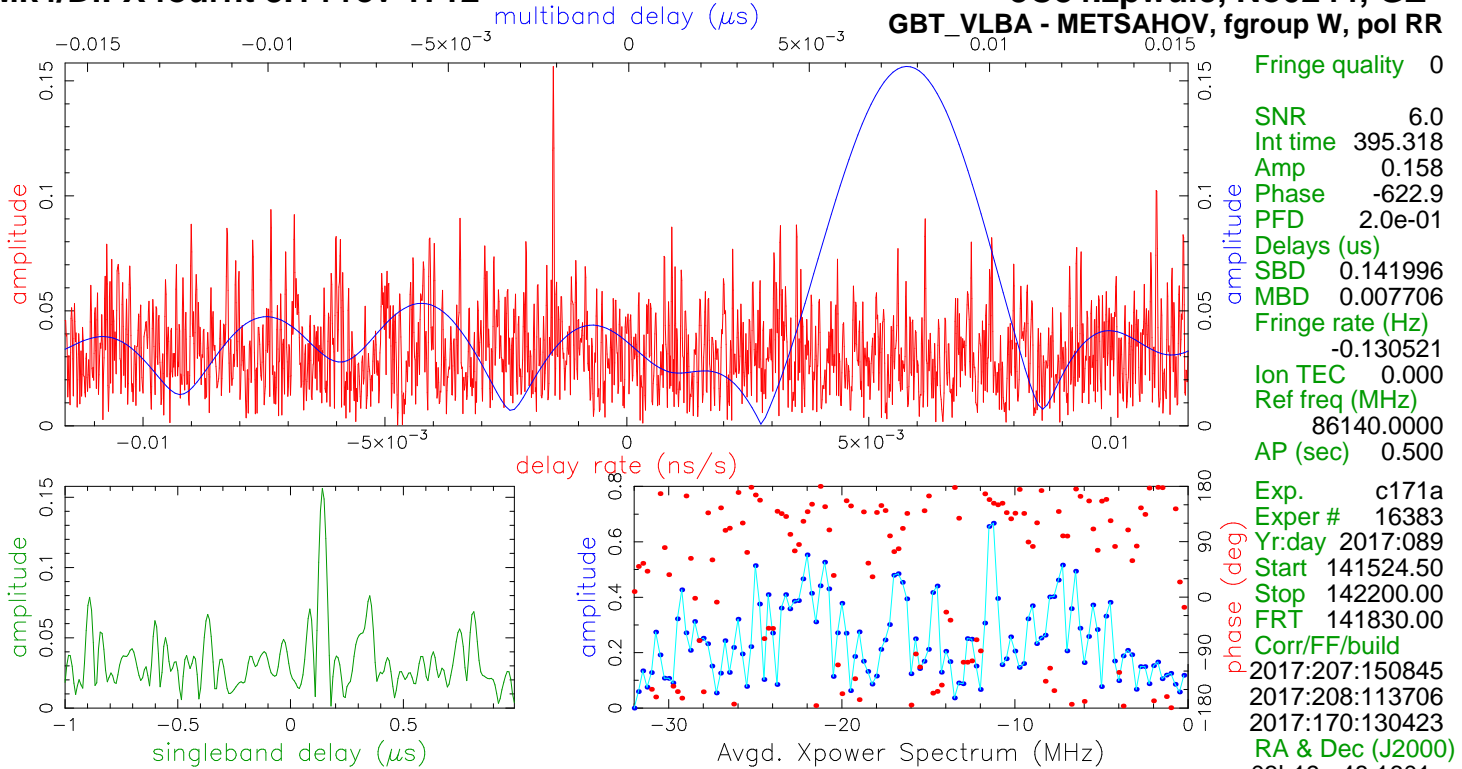
amp/seg (%) 125.7 49.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 26.8 16.7 Inc. seg. avg. 0.423 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

amp/frq (%) 37.2 29.2 Inc. frq. avg. 0.260 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.125.zpwuic



Fringe quality 0

SNR 6.0

Int time 395.318

Amp 0.158

Phase -622.9

PFD 2.0e-01

Delays (us)

SBD 0.141996

MBD 0.007706

Fringe rate (Hz)

-0.130521

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:089

Start 141524.50

Stop 142200.00

FRT 141830.00

Corr/FF/build

2017:207:150845

2017:208:113706

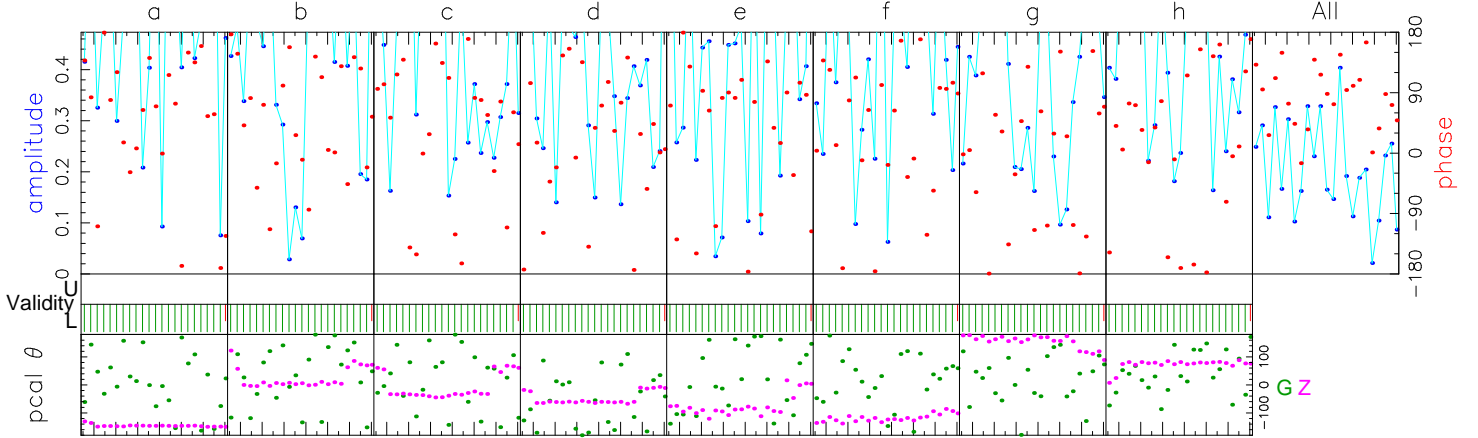
2017:170:130423

RA & Dec (J2000)

03h19m48.1601s

+41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	93.8	87.6	117.2	94.7	92.3	95.1	92.8	100.4	Phase	97.1
	0.3	0.1	0.2	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	147.1	118.3	82.0	175.7	16.0	148.8	172.8	170.1	Sbd box	147.2
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.04743211769E+04		Apriori delay (usec)		-1.04744538824E+04		Resid mbdelay (usec)		7.70552E-03	+/- 3.6E-04
Sband delay (usec)	-1.04743118869E+04		Apriori clock (usec)		-1.2269488E+01		Resid sbdelay (usec)		1.41996E-01	+/- 2.9E-03
Phase delay (usec)	-1.04744538793E+04		Apriori clockrate (us/s)		2.0089345E-07		Resid phdelay (usec)		3.13206E-06	+/- 6.1E-07
Delay rate (us/s)	1.07795407792E+00		Apriori rate (us/s)		1.07795559314E+00		Resid rate (us/s)		-1.51522E-06	+/- 2.7E-09
Total phase (deg)	-778.1		Apriori accel (us/s/s)		3.71669455795E-05		Resid phase (deg)		-622.9	+/- 19.0

ph/seg (deg) 48.9 45.6 Search (2048X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

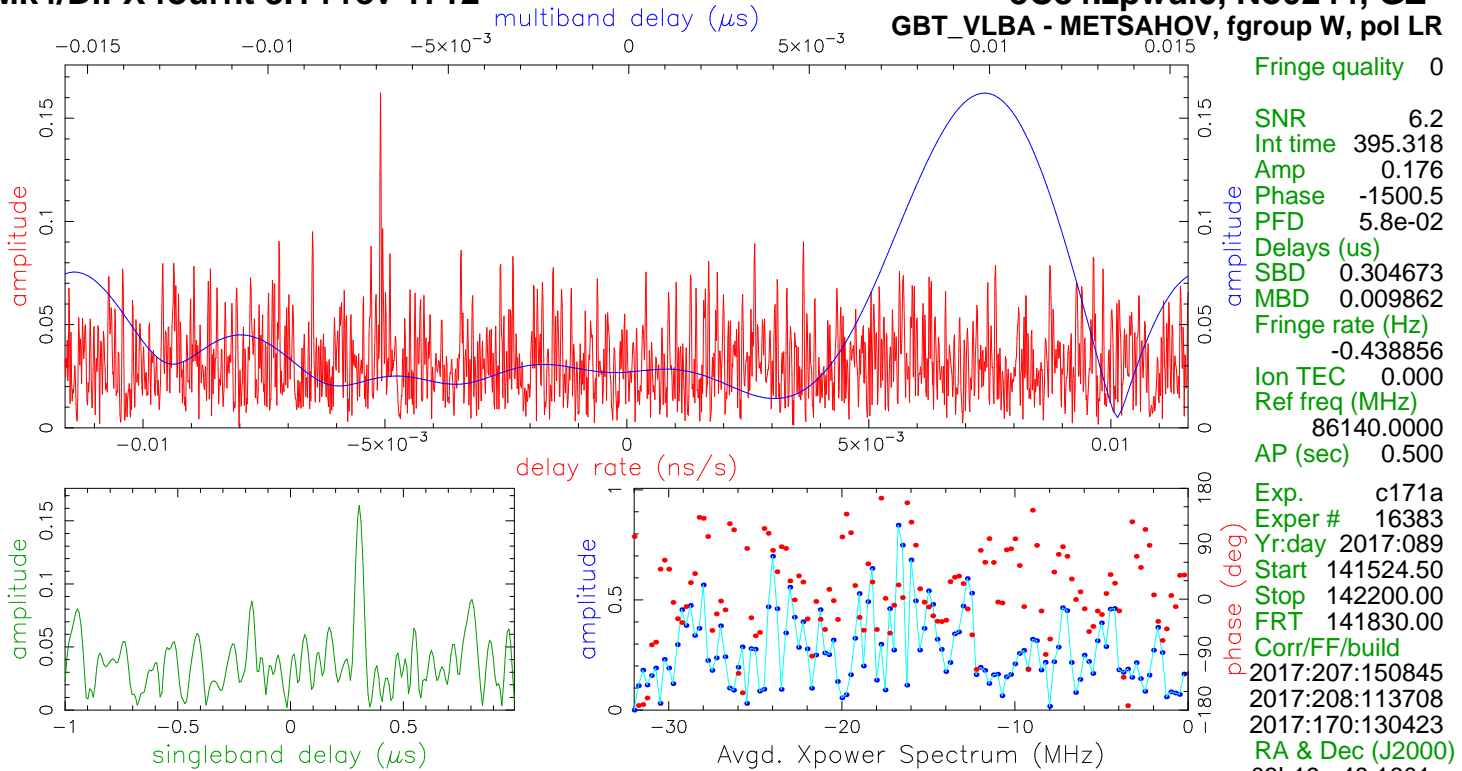
amp/seg (%) 67.6 79.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 9.7 26.9 Inc. seg. avg. 0.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

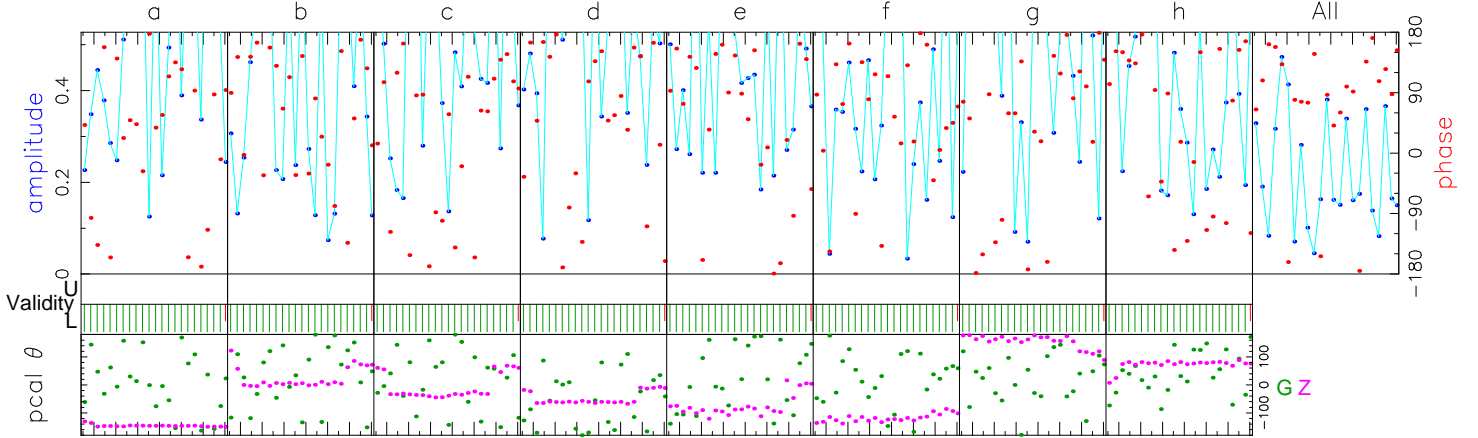
amp/frq (%) 39.8 47.0 Inc. frq. avg. 0.143 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.126.zpwuic



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



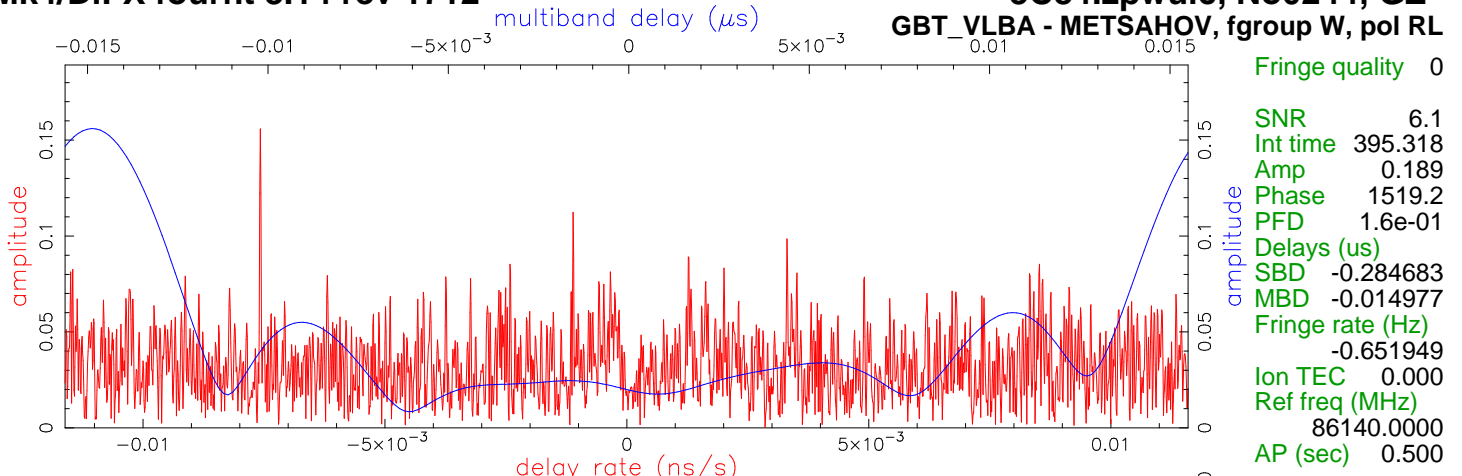
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
96.5	130.8	131.6	138.6	124.5	66.5	105.3	155.6	Phase	119.5
0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
19.7	84.6	167.4	70.5	105.6	231.2	168.3	155.6	Sbd box	168.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	-1.04741627705E+04	Apriori delay (usec)	-1.04744538824E+04	Resid mbdelay (usec)	9.86196E-03	+/-	3.5E-04
Sband delay (usec)	-1.04741492094E+04	Apriori clock (usec)	-1.2269488E+01	Resid sbdelay (usec)	3.04673E-01	+/-	2.8E-03
Phase delay (usec)	-1.04744538786E+04	Apriori clockrate (us/s)	2.0089345E-07	Resid phdelay (usec)	3.85311E-06	+/-	5.9E-07
Delay rate (us/s)	1.07795049846E+00	Apriori rate (us/s)	1.07795559314E+00	Resid rate (us/s)	-5.09468E-06	+/-	2.6E-09
Total phase (deg)	-1655.8	Apriori accel (us/s/s)	3.71669455795E-05	Resid phase (deg)	-1500.5	+/-	18.4

ph/seg (deg)	45.8	Theor.	44.1	Amplitude	0.176 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	84.5	Search (2048X32)	0.154	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	30.3	Interp.	0.000	Inc. seg. avg.	0.186	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	23.6	Inc. frq. avg.	0.177	Inc. frq. avg.	0.177	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00
						t_cohere:	infinite		

G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 simultaneous interpolator

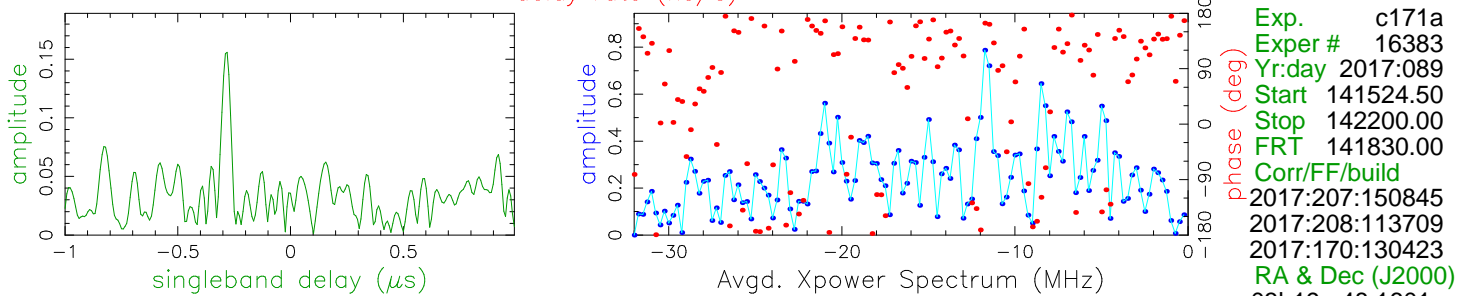
Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.127.zpwuic



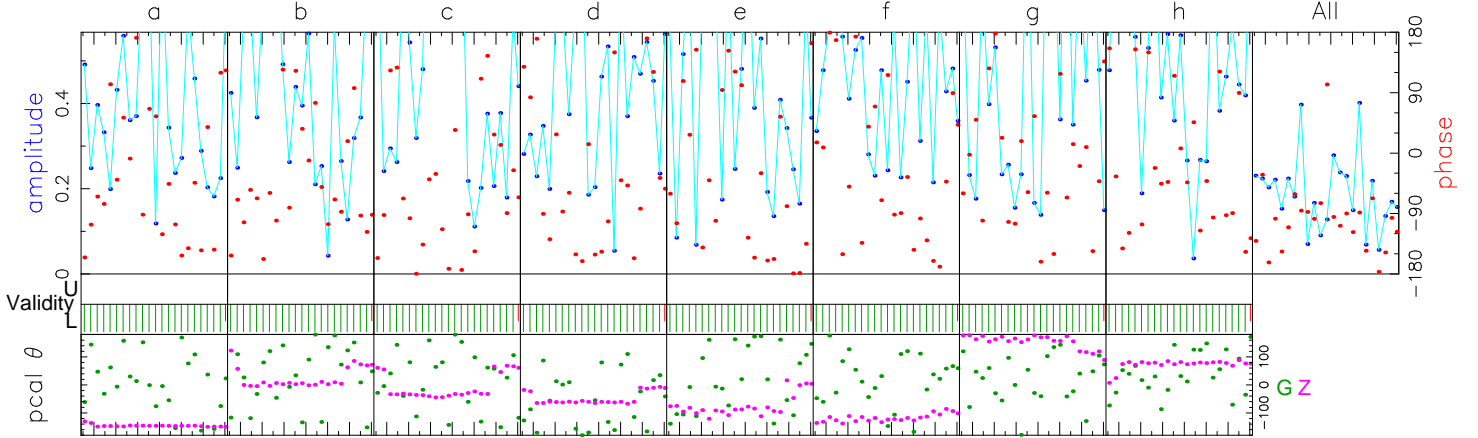
Fringe quality 0

SNR 6.1
 Int time 395.318
 Amp 0.189
 Phase 1519.2
 PFD 1.6e-01
 Delays (us)
 SBD -0.284683
 MBD -0.014977
 Fringe rate (Hz)
 -0.651949
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

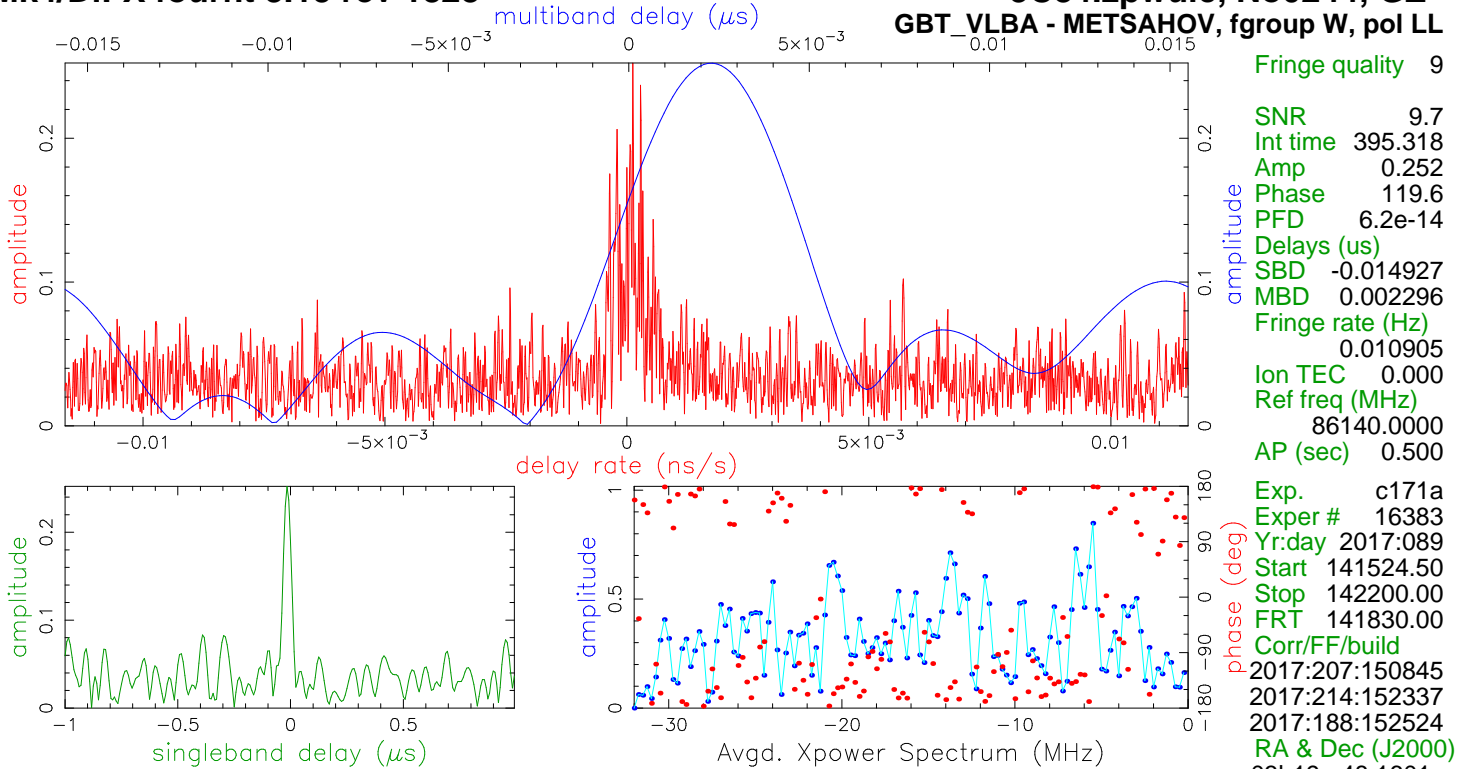
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113709
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-101.3	-86.8	-107.8	-115.4	-119.6	-131.7	-69.2	-94.9	Phase	-100.8	
	0.1	0.3	0.2	0.2	0.1	0.2	0.3	0.2	Ampl.	0.2	
	188.3	74.5	172.1	91.0	252.9	197.4	93.8	138.5	Sbd box	92.6	
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used		
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
Z	1000	1000	1000	1000	1000	1000	1000	1000			
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
									Tracks		
Group delay (usec)(sbd)	-1.04747501097E+04		Apriori delay (usec)		-1.04744538824E+04		Resid mbdelay (usec)		-1.49773E-02 +/- 3.6E-04		
Sband delay (usec)	-1.04747385659E+04		Apriori clock (usec)		-1.2269488E+01		Resid sbdelay (usec)		-2.84683E-01 +/- 2.8E-03		
Phase delay (usec)	-1.04744538857E+04		Apriori clockrate (us/s)		2.0089345E-07		Resid phdelay (usec)		-3.24905E-06 +/- 6.1E-07		
Delay rate (us/s)	1.07794802465E+00		Apriori rate (us/s)		1.07795559314E+00		Resid rate (us/s)		-7.56848E-06 +/- 2.7E-09		
Total phase (deg)	1364.0		Apriori accel (us/s/s)		3.71669455795E-05		Resid phase (deg)		1519.2 +/- 18.9		
	RMS	Theor.	Amplitude	0.189 +/- 0.031		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	47.5	45.3	Search (2048X32)	0.147		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	59.6	79.1	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	21.6	26.7	Inc. seg. avg.	0.175		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)	24.7	46.6	Inc. frq. avg.	0.179		Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00
G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 simultaneous interpolator											
Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.128.zpwuic											



Fringe quality 9

SNR 9.7

Int time 395.318

Amp 0.252

Phase 119.6

PFD 6.2e-14

Delays (us)

SBD -0.014927

MBD 0.002296

Fringe rate (Hz) 0.010905

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:089

Start 141524.50

Stop 142200.00

FRT 141830.00

Corr/FF/build

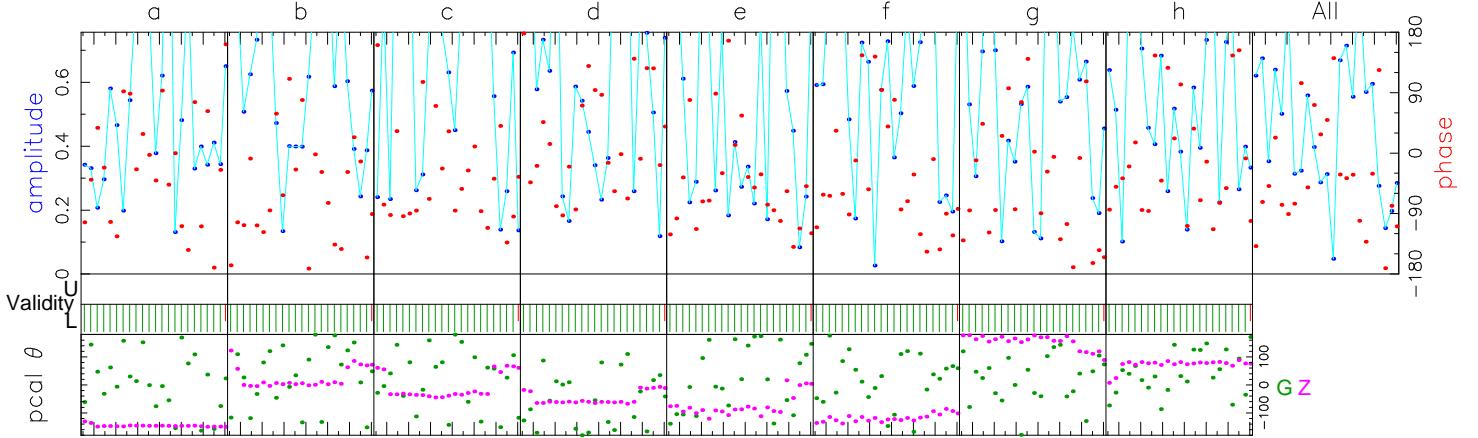
2017:207:150845

2017:214:152337

2017:188:152524

RA & Dec (J2000) 03h19m48.1601s +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-37.6	-90.2	-53.2	-20.7	-74.7	-62.5	-88.3	-43.7	Phase	-60.4
	0.2	0.3	0.4	0.2	0.4	0.2	0.2	0.2	Ampl.	0.3
	177.9	127.2	127.4	127.2	127.0	23.7	138.0	246.1	Sbd box	127.1
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	

Group delay (usec)(sbd) -1.04744828361E+04 Apriori delay (usec) -1.04744538824E+04 Resid mbdelay (usec) 2.29635E-03 +/- 2.2E-04

Sband delay (usec) -1.04744688094E+04 Apriori clock (usec) -1.2269488E+01 Resid sbdelay (usec) -1.49270E-02 +/- 1.8E-03

Phase delay (usec) -1.04744538844E+04 Apriori clockrate (us/s) 2.0089345E-07 Resid phdelay (usec) -1.94754E-06 +/- 3.8E-07

Delay rate (us/s) 1.07795571974E+00 Apriori rate (us/s) 1.07795559314E+00 Resid rate (us/s) 1.26601E-07 +/- 1.7E-09

Total phase (deg) -35.6 Apriori accel (us/s/s) 3.71669455795E-05 Resid phase (deg) 119.6 +/- 11.8

RMS Theor. Amplitude 0.252 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 83.9 28.3 Search (2048X32) 0.248 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

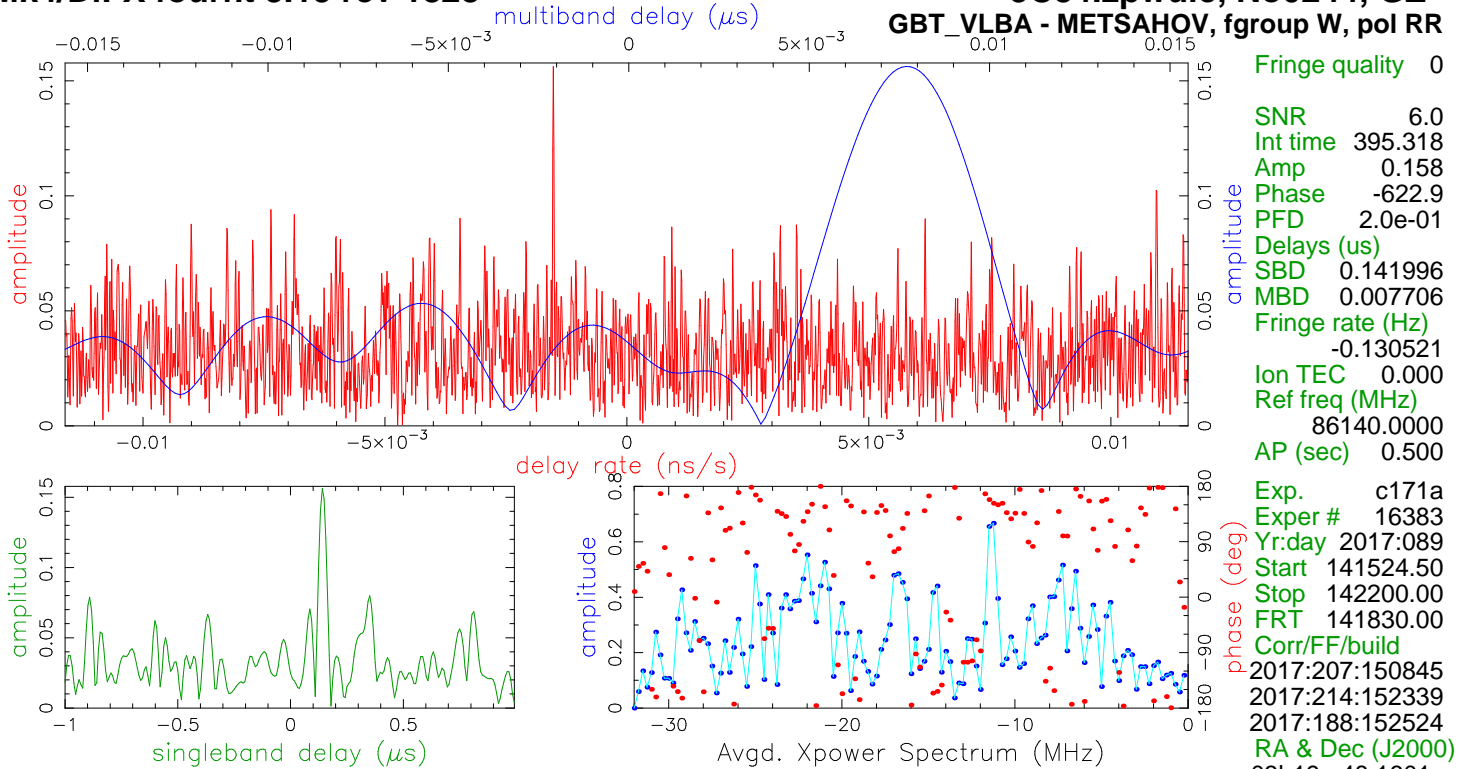
amp/seg (%) 125.7 49.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 26.8 16.7 Inc. seg. avg. 0.423 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

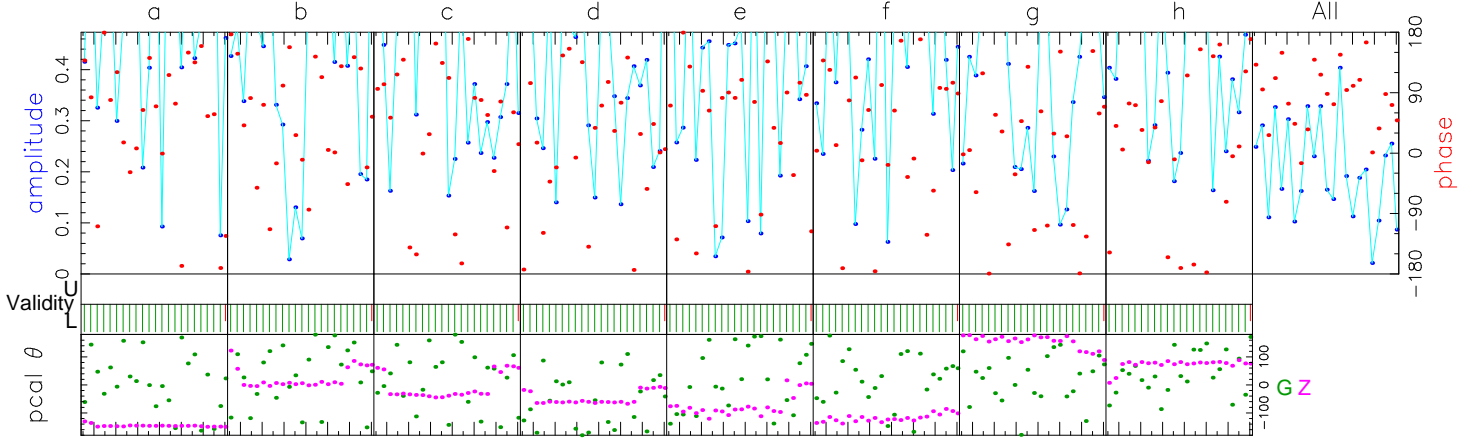
amp/frq (%) 37.2 29.2 Inc. frq. avg. 0.260 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.269.zpwuic

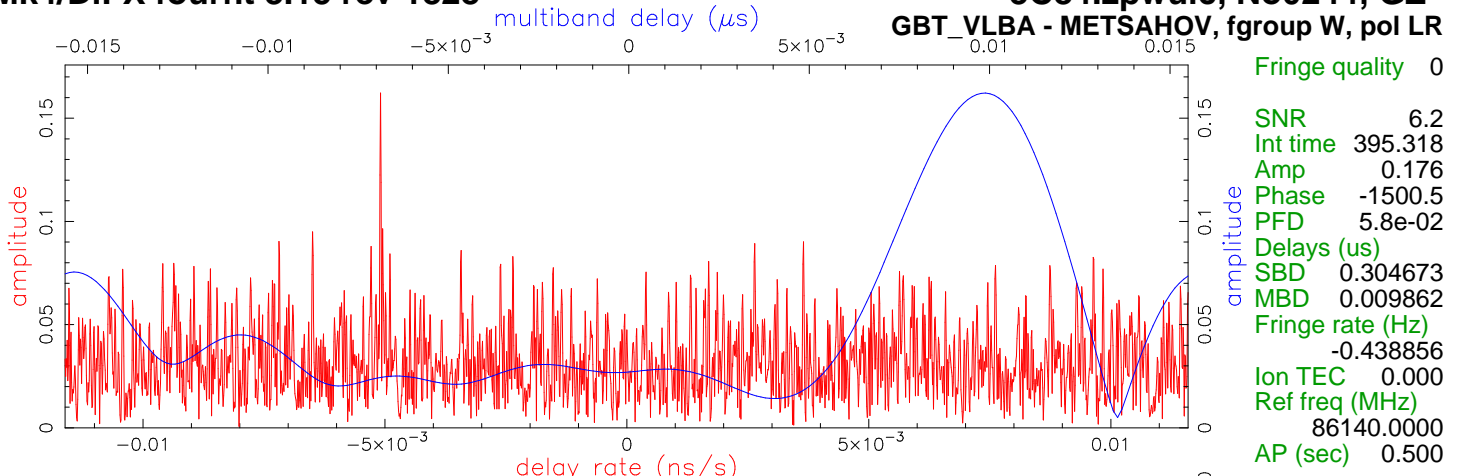


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
93.8	87.6	117.2	94.7	92.3	95.1	92.8	100.4	Phase	97.1
0.3	0.1	0.2	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
147.1	118.3	82.0	175.7	16.0	148.8	172.8	170.1	Sbd box	147.2
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.04743211769E+04		Apriori delay (usec)	-1.04744538824E+04		Resid mbdelay (usec)	7.70552E-03	+/-	3.6E-04
Sband delay (usec)	-1.04743118869E+04		Apriori clock (usec)	-1.2269488E+01		Resid sbdelay (usec)	1.41996E-01	+/-	2.9E-03
Phase delay (usec)	-1.04744538793E+04		Apriori clockrate (us/s)	2.0089345E-07		Resid phdelay (usec)	3.13206E-06	+/-	6.1E-07
Delay rate (us/s)	1.07795407792E+00		Apriori rate (us/s)	1.07795559314E+00		Resid rate (us/s)	-1.51522E-06	+/-	2.7E-09
Total phase (deg)	-778.1		Apriori accel (us/s/s)	3.71669455795E-05		Resid phase (deg)	-622.9	+/-	19.0

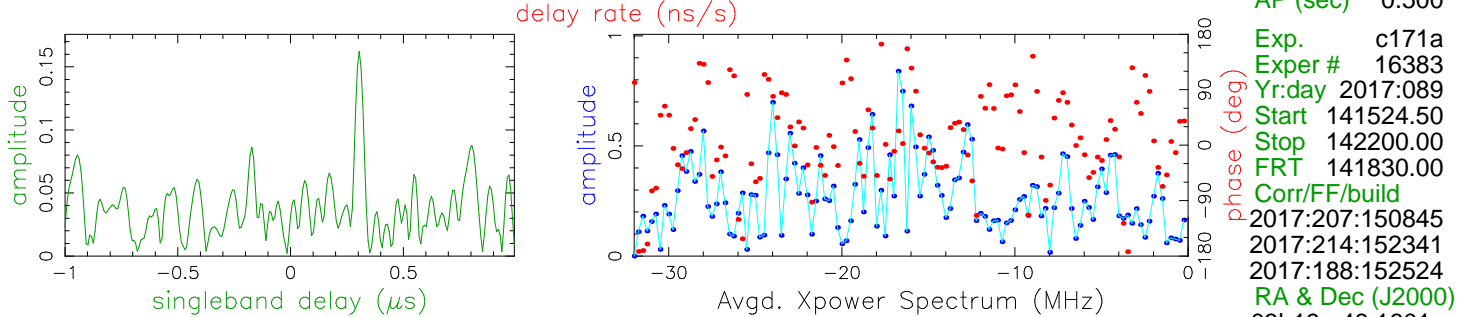
ph/seg (deg) 48.9 45.6 Search (2048X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.6 79.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.7 26.9 Inc. seg. avg. 0.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 39.8 47.0 Inc. frq. avg. 0.143 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.270.zpwuic simultaneous interpolator



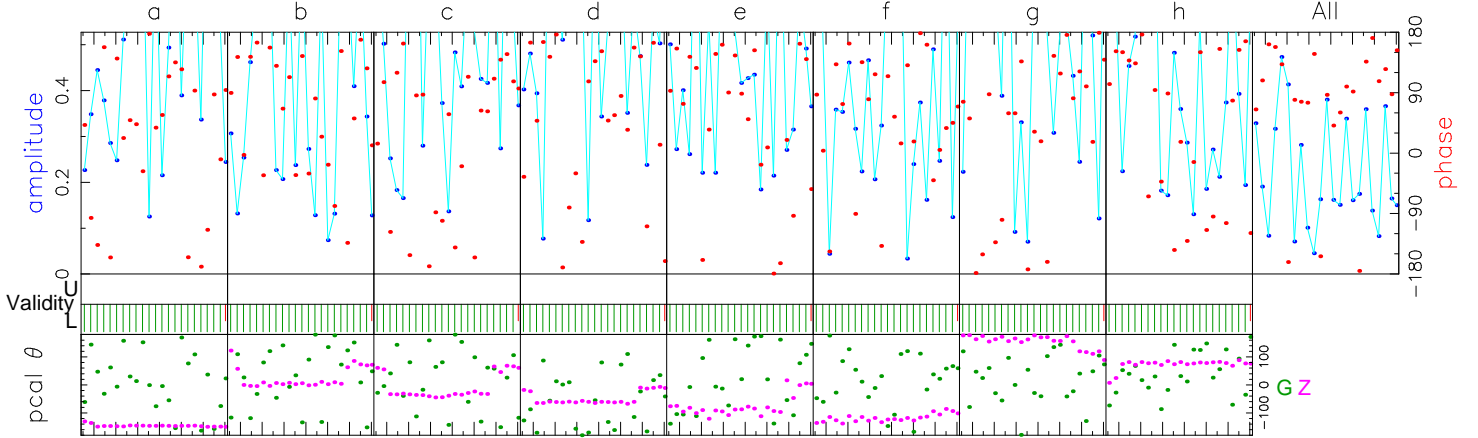
Fringe quality 0

SNR 6.2
 Int time 395.318
 Amp 0.176
 Phase -1500.5
 PFD 5.8e-02
 Delays (us)
 SBD 0.304673
 MBD 0.009862
 Fringe rate (Hz)
 -0.438856
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152341
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

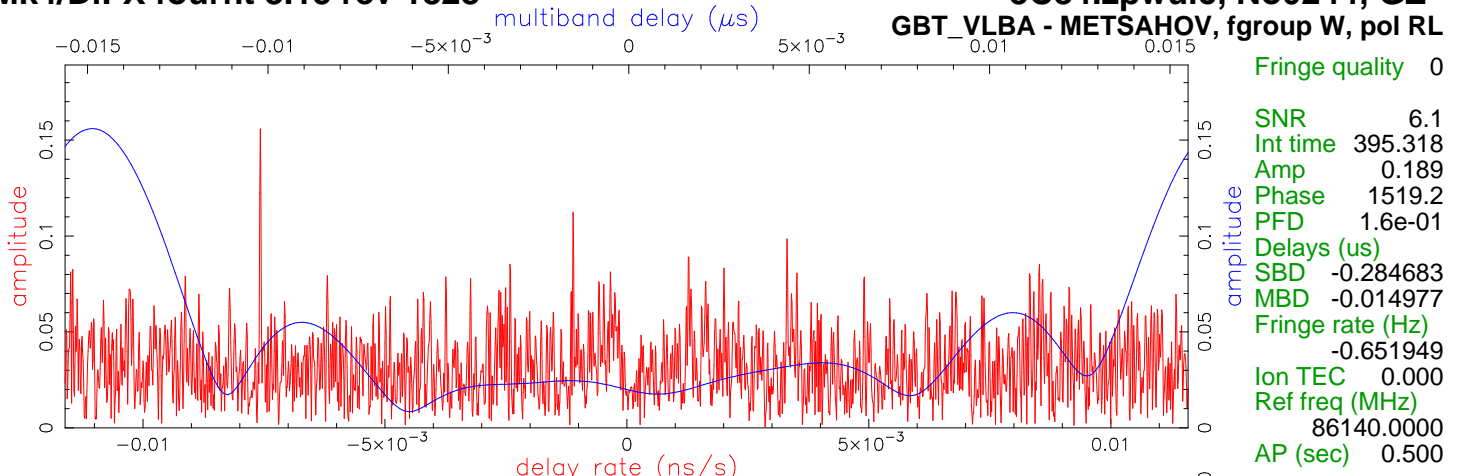


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
96.5	130.8	131.6	138.6	124.5	66.5	105.3	155.6	Phase	119.5
0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
19.7	84.6	167.4	70.5	105.6	231.2	168.3	155.6	Sbd box	168.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.04741627705E+04	Apriori delay (usec)	-1.04744538824E+04	Resid mbdelay (usec)	9.86196E-03	+/-	3.5E-04		
Sband delay (usec)	-1.04741492094E+04	Apriori clock (usec)	-1.2269488E+01	Resid sbdelay (usec)	3.04673E-01	+/-	2.8E-03		
Phase delay (usec)	-1.04744538786E+04	Apriori clockrate (us/s)	2.0089345E-07	Resid phdelay (usec)	3.85311E-06	+/-	5.9E-07		
Delay rate (us/s)	1.07795049846E+00	Apriori rate (us/s)	1.07795559314E+00	Resid rate (us/s)	-5.09468E-06	+/-	2.6E-09		
Total phase (deg)	-1655.8	Apriori accel (us/s/s)	3.71669455795E-05	Resid phase (deg)	-1500.5	+/-	18.4		

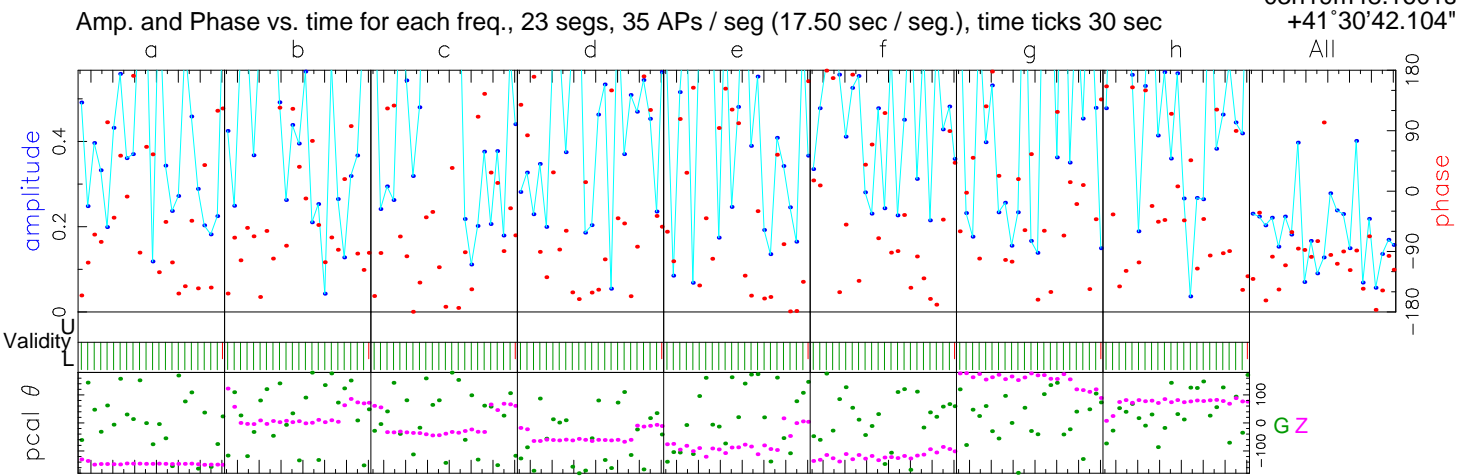
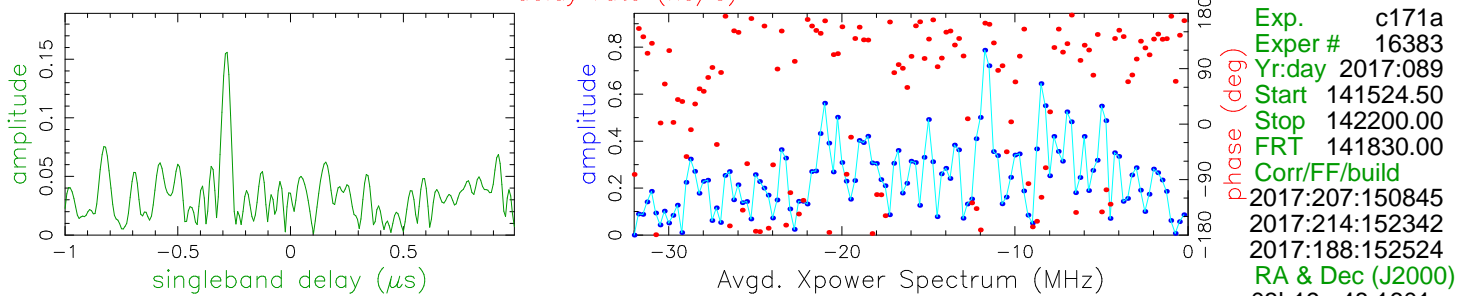
ph/seg (deg) 45.8 RMS 45.8 Theor. 44.1 Amplitude 0.176 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.5 76.9 Interp. 0.000 Search (2048X32) 0.154 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.3 26.0 Inc. seg. avg. 0.186 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 23.6 45.4 Inc. frq. avg. 0.177 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.271.zpwuic simultaneous interpolator



Fringe quality 0

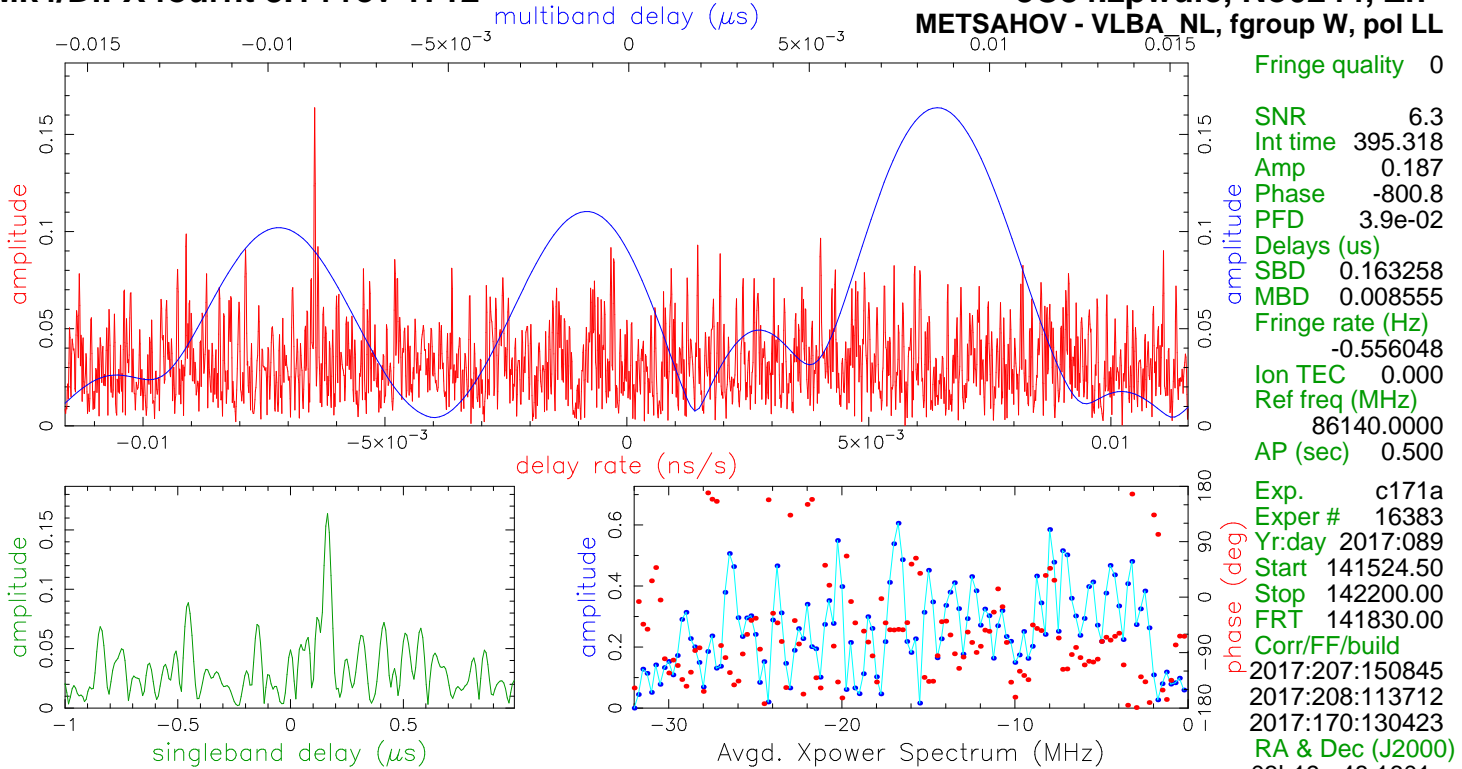
SNR 6.1
 Int time 395.318
 Amp 0.189
 Phase 1519.2
 PFD 1.6e-01
 Delays (us)
 SBD -0.284683
 MBD -0.014977
 Fringe rate (Hz)
 -0.651949
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152342
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

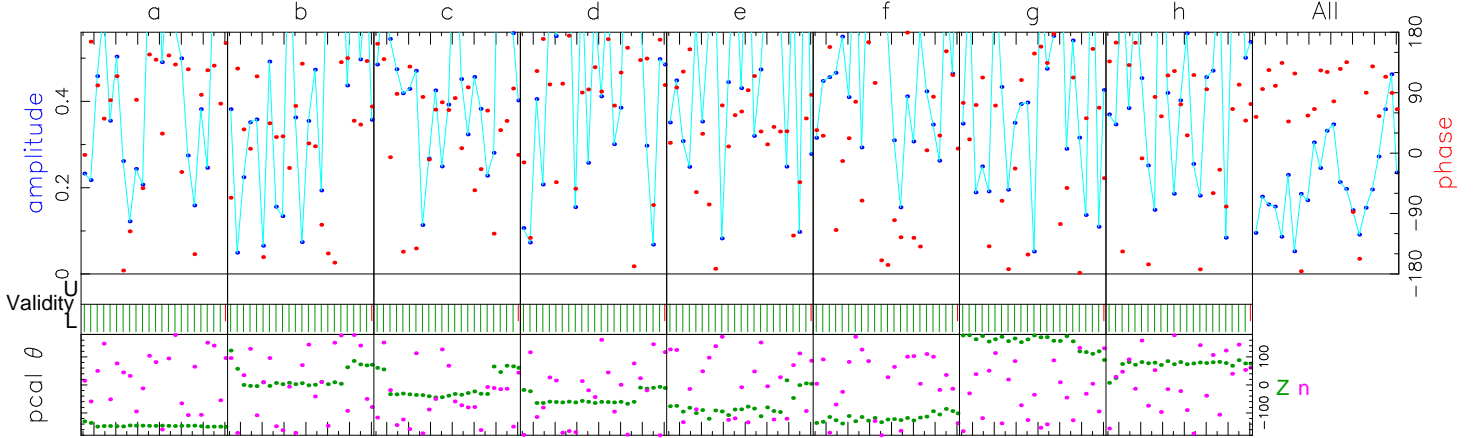


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-101.3	-86.8	-107.8	-115.4	-119.6	-131.7	-69.2	-94.9	Phase	-100.8
	0.1	0.3	0.2	0.2	0.1	0.2	0.3	0.2	Ampl.	0.2
	188.3	74.5	172.1	91.0	252.9	197.4	93.8	138.5	Sbd box	92.6
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.04747501097E+04		Apriori delay (usec)		-1.04744538824E+04		Resid mbdelay (usec)		-1.49773E-02 +/- 3.6E-04	
Sband delay (usec)	-1.04747385659E+04		Apriori clock (usec)		-1.2269488E+01		Resid sbdelay (usec)		-2.84683E-01 +/- 2.8E-03	
Phase delay (usec)	-1.04744538857E+04		Apriori clockrate (us/s)		2.0089345E-07		Resid phdelay (usec)		-3.24905E-06 +/- 6.1E-07	
Delay rate (us/s)	1.07794802465E+00		Apriori rate (us/s)		1.07795559314E+00		Resid rate (us/s)		-7.56848E-06 +/- 2.7E-09	
Total phase (deg)	1364.0		Apriori accel (us/s/s)		3.71669455795E-05		Resid phase (deg)		1519.2 +/- 18.9	

ph/seg (deg) 47.5 45.3 Search (2048X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.6 79.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.6 26.7 Inc. seg. avg. 0.175 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 24.7 46.6 Inc. frq. avg. 0.179 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 55.9 el 25.4 pa -61.3 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) -8176.032 1047.917 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/GZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/GZ.W.272.zpwuic simultaneous interpolator

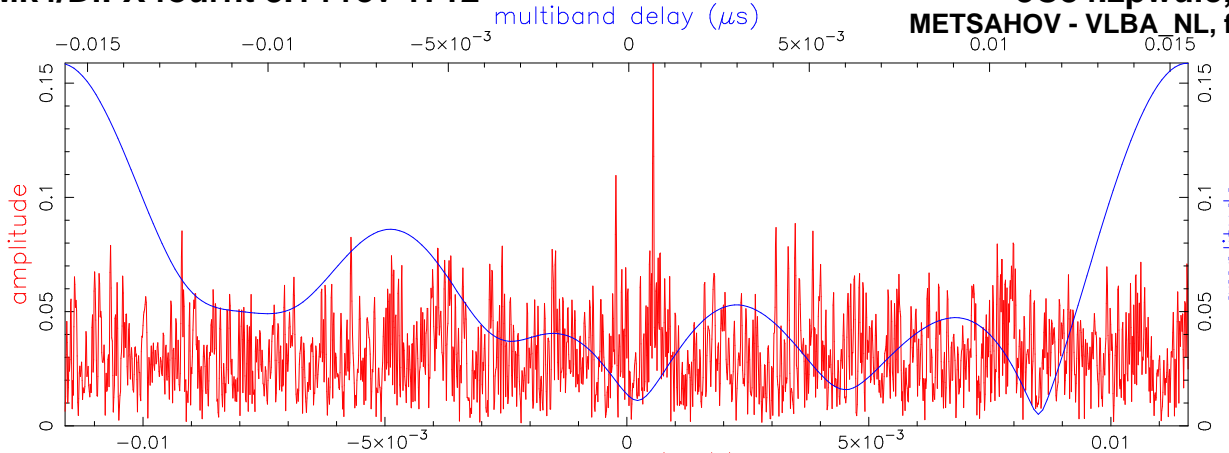


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

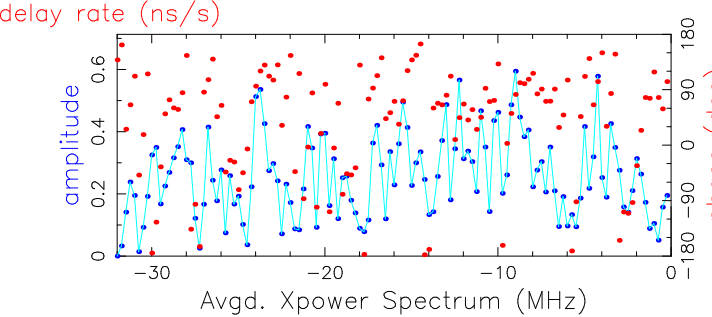
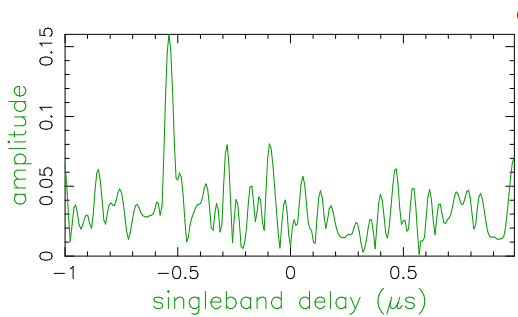


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	103.3	194.3	150.7	148.9	245.1	57.1	112.3		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)		1.22865519749E+04		Apriori delay (usec)		1.22863871700E+04		Resid mbdelay (usec)	8.55494E-03	+/- 3.4E-04
Sband delay (usec)		1.22865504285E+04		Apriori clock (usec)		-4.3631868E+00		Resid sbdelay (usec)	1.63258E-01	+/- 2.7E-03
Phase delay (usec)		1.22863871732E+04		Apriori clockrate (us/s)		-2.6583995E-07		Resid phdelay (usec)	3.19993E-06	+/- 5.9E-07
Delay rate (us/s)		-1.02474257756E+00		Apriori rate (us/s)		-1.02473612240E+00		Resid rate (us/s)	-6.45516E-06	+/- 2.6E-09
Total phase (deg)		-864.2		Apriori accel (us/s/s)		-5.02223289800E-05		Resid phase (deg)	-800.8	+/- 18.2

ph/seg (deg) 53.8 43.6 Search (2048X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.7 76.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.2 25.7 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.5 44.9 Inc. frq. avg. 0.203 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757 ion window (TEC) 0.00 0.00
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.129.zpwuic simultaneous interpolator

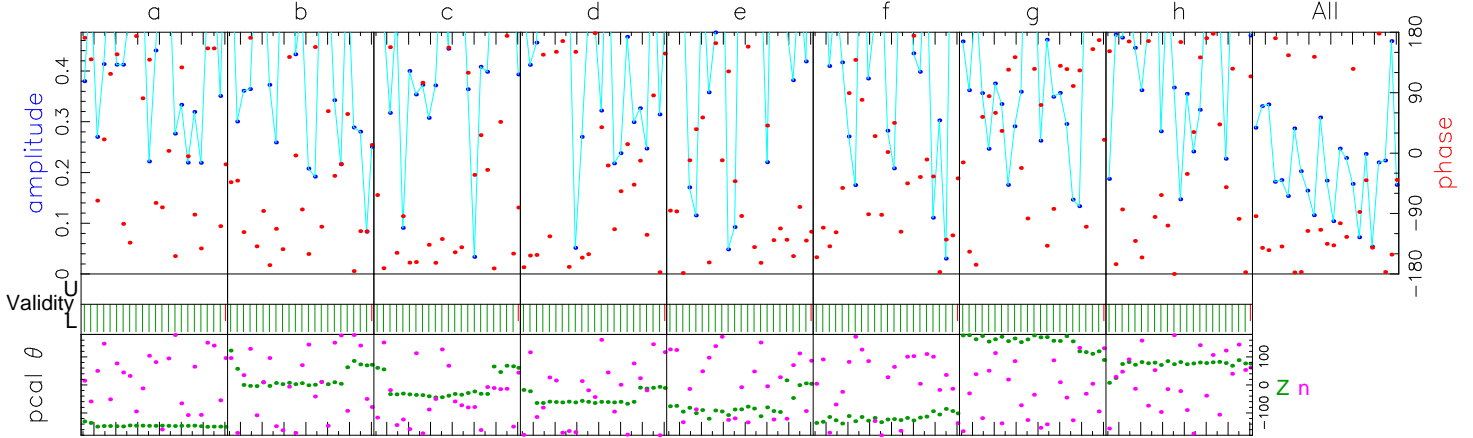


Fringe quality 0
 SNR 6.1
 Int time 395.318
 Amp 0.159
 Phase 2916.1
 PFD 1.3e-01
 Delays (us)
 SBD -0.538754
 MBD -0.015773
 Fringe rate (Hz)
 0.046642
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



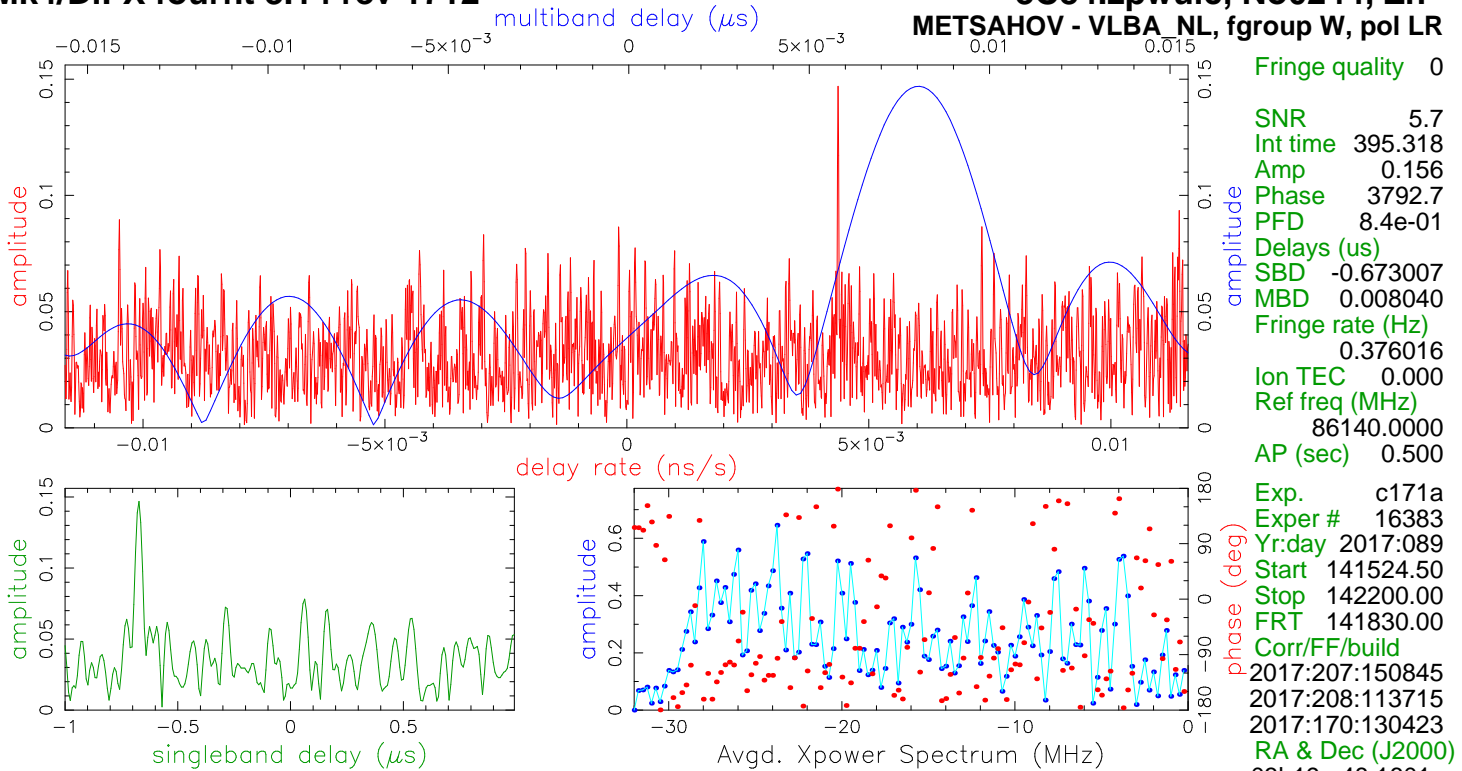
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113713
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

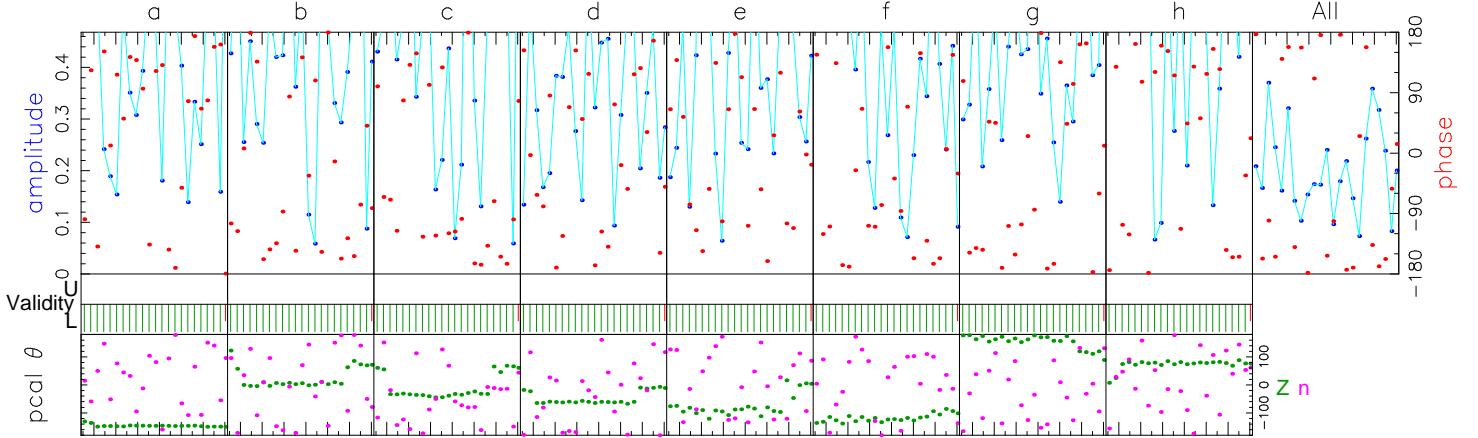


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		1.22858401467E+04			1.22863871700E+04				-1.57733E-02	+/- 3.6E-04
Sband delay (usec)		1.22858484165E+04			-4.3631868E+00				-5.38754E-01	+/- 2.8E-03
Phase delay (usec)		1.22863871654E+04			-2.6583995E-07				-4.64108E-06	+/- 6.1E-07
Delay rate (us/s)		-1.02473558093E+00			-1.02473612240E+00				5.41469E-07	+/- 2.7E-09
Total phase (deg)			3212.7						2916.1	+/- 18.8
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)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.016	0.016
dr window (ns/s)									-0.012	0.012
ion window (TEC)									0.00	0.00
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
u,v (fr/asec)										
nlags: 128										
t_cohere infinite										
simultaneous interpolator										

Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.130.zpwuic

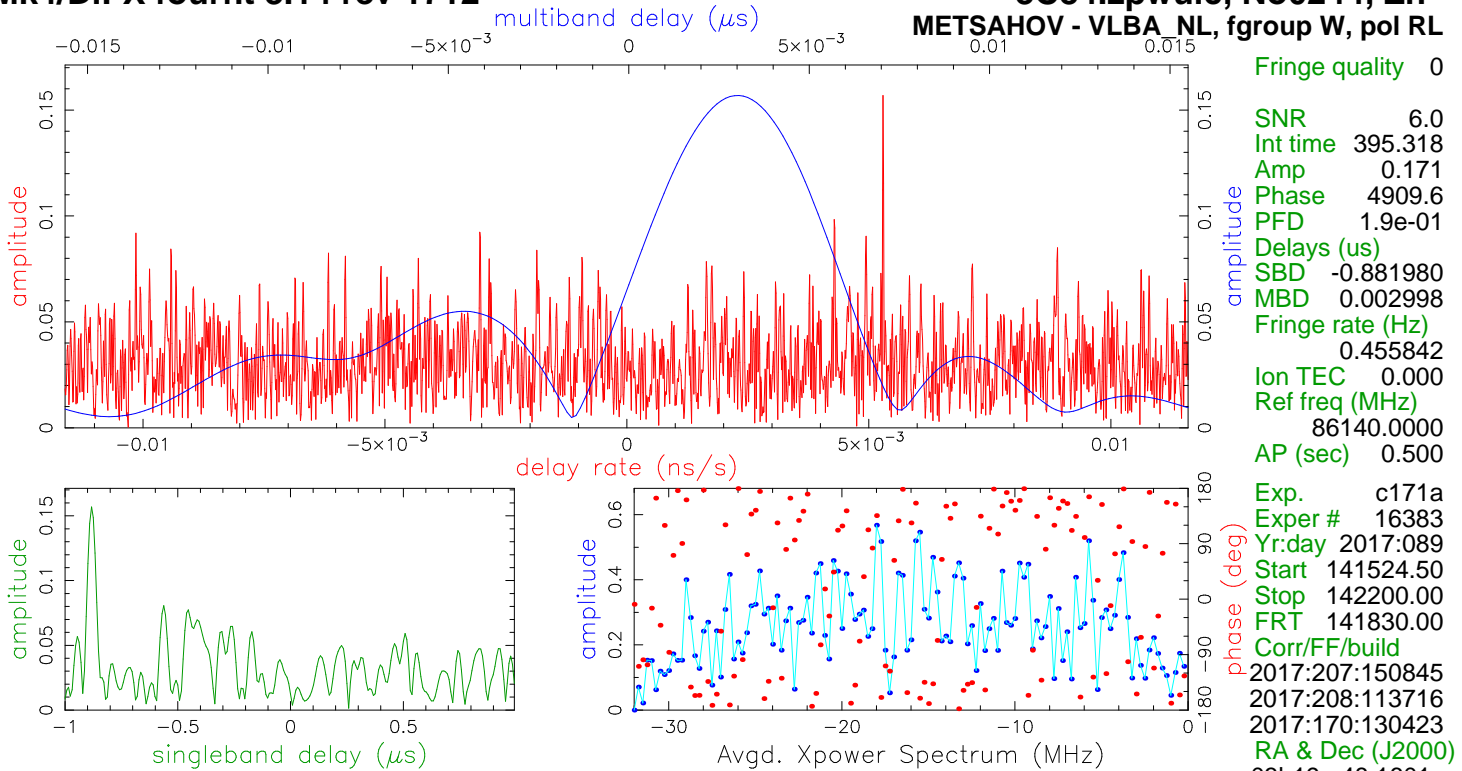


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

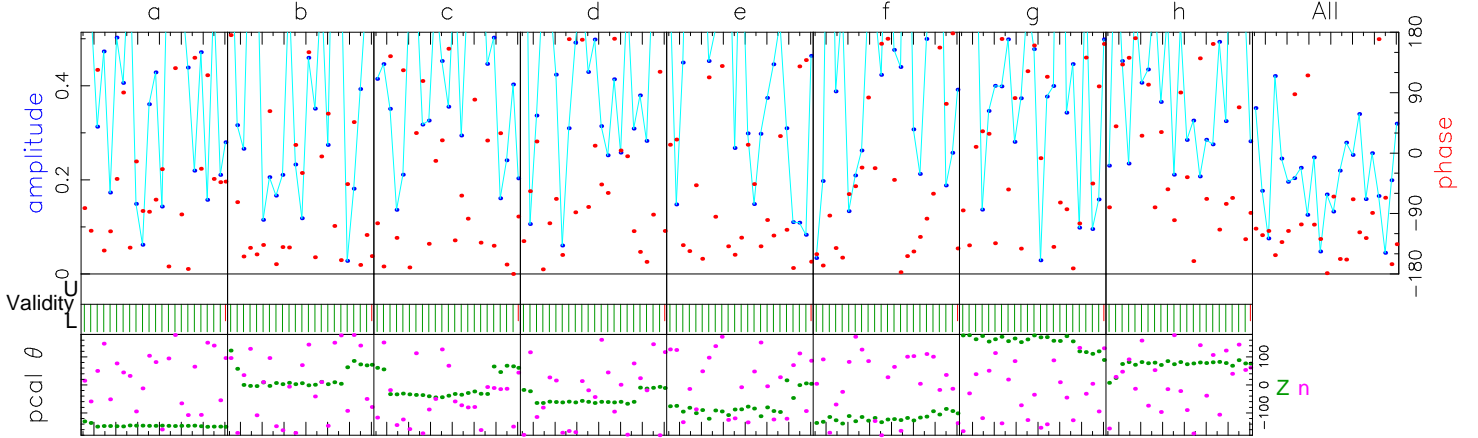


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
157.9	-138.2	-163.5	174.5	-140.5	-156.2	-158.8	175.4	Phase	-167.3
0.2	0.2	0.2	0.0	0.1	0.2	0.1	0.2	Ampl.	0.1
127.6	44.5	104.9	230.7	7.4	203.4	233.5	42.8	Sbd box	42.9
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.22857077099E+04		Apriori delay (usec)	1.22863871700E+04		Resid mbdelay (usec)	8.03994E-03	+/-	3.8E-04
Sband delay (usec)	1.22857141630E+04		Apriori clock (usec)	-4.3631868E+00		Resid sbdelay (usec)	-6.73007E-01	+/-	3.0E-03
Phase delay (usec)	1.22863871646E+04		Apriori clockrate (us/s)	-2.6583995E-07		Resid phdelay (usec)	-5.39451E-06	+/-	6.5E-07
Delay rate (us/s)	-1.02473175723E+00		Apriori rate (us/s)	-1.02473612240E+00		Resid rate (us/s)	4.36517E-06	+/-	2.9E-09
Total phase (deg)	4089.3		Apriori accel (us/s/s)	-5.02223289800E-05		Resid phase (deg)	3792.7	+/-	20.2

ph/seg (deg) 61.6 48.6 Search (2048X32) 0.143 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.3 84.7 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 28.6 Inc. seg. avg. 0.157 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 47.4 50.0 Inc. frq. avg. 0.149 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757 ion window (TEC) 0.00 0.00
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.131.zpwiuc simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

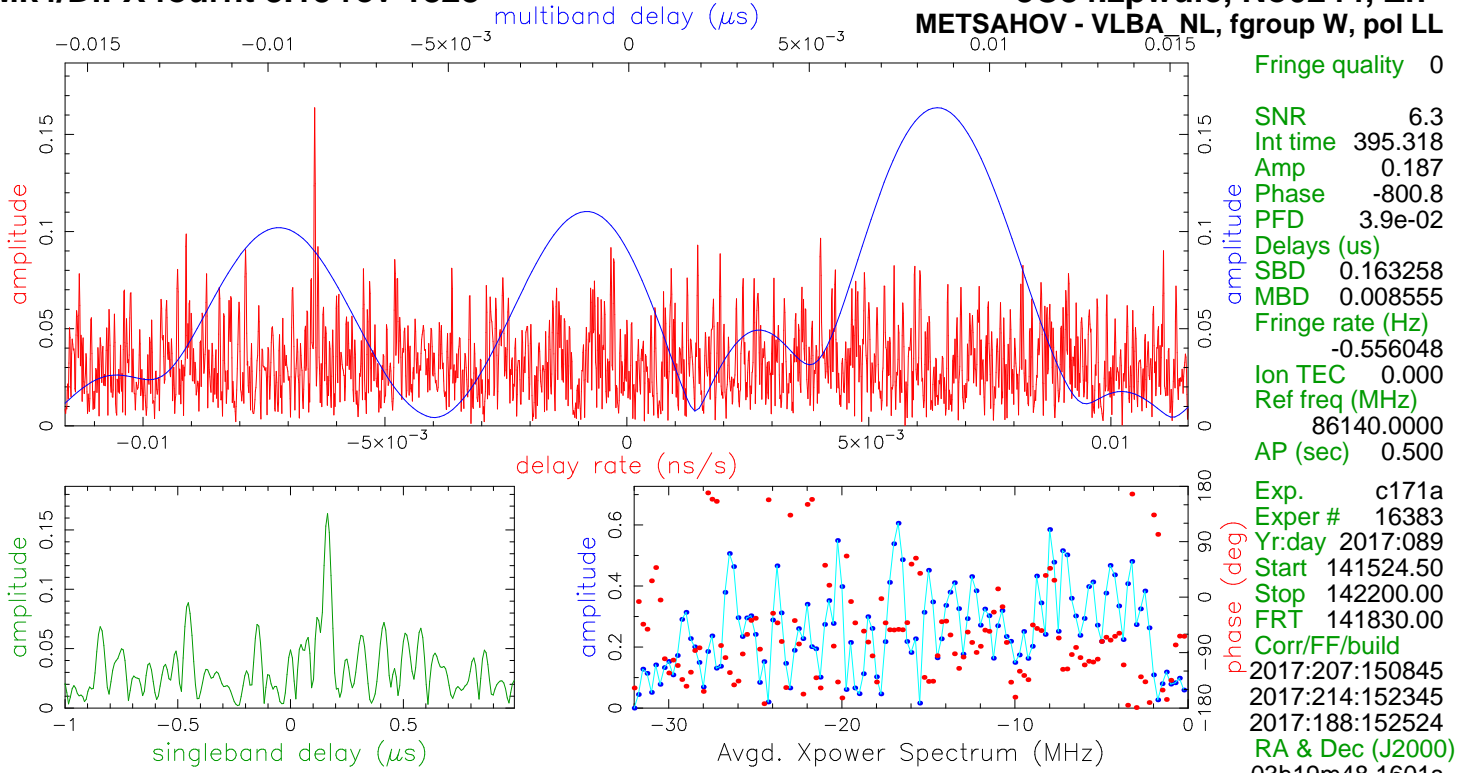


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-111.0	-143.7	-146.5	-114.3	-134.5	-139.8	-135.4	-71.5	Phase	-130.4
0.2	0.3	0.1	0.2	0.2	0.2	0.1	0.0	Ampl.	0.2
69.8	229.5	89.6	47.1	56.1	15.4	78.7	106.7	Sbd box	16.1
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

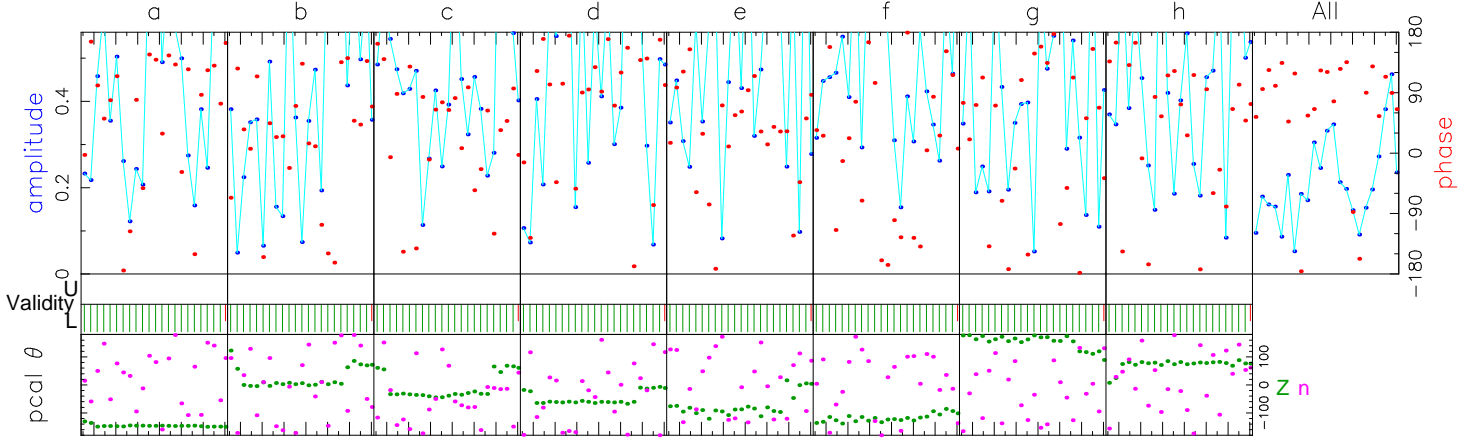
Group delay (usec)(sbd)	1.22855151679E+04	Apriori delay (usec)	1.22863871700E+04	Resid mbdelay (usec)	2.99790E-03	+/-	3.6E-04	
Sband delay (usec)	1.22855051895E+04	Apriori clock (usec)	-4.3631868E+00	Resid sbdelay (usec)	-8.81980E-01	+/-	2.9E-03	
Phase delay (usec)	1.22863871658E+04	Apriori clockrate (us/s)	-2.6583995E-07	Resid phdelay (usec)	-4.20574E-06	+/-	6.1E-07	
Delay rate (us/s)	-1.02473083053E+00	Apriori rate (us/s)	-1.02473612240E+00	Resid rate (us/s)	5.29187E-06	+/-	2.7E-09	
Total phase (deg)	5206.2	Apriori accel (us/s/s)	-5.02223289800E-05	Resid phase (deg)	4909.6	+/-	19.0	
RMS	Theor.	Amplitude	0.171 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
ph/seg (deg)	50.8	Search (2048X32)	0.153	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	67.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	27.9	Inc. seg. avg.	0.173	Sample rate(MSamp/s):	64	ion window (TEC)	-0.012 0.012	
amp/frq (%)	41.3	Inc. frq. avg.	0.161	Data rate(Mb/s):	1024	nlags: 128 t_cohere	infinite	0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.132.zpwiuc

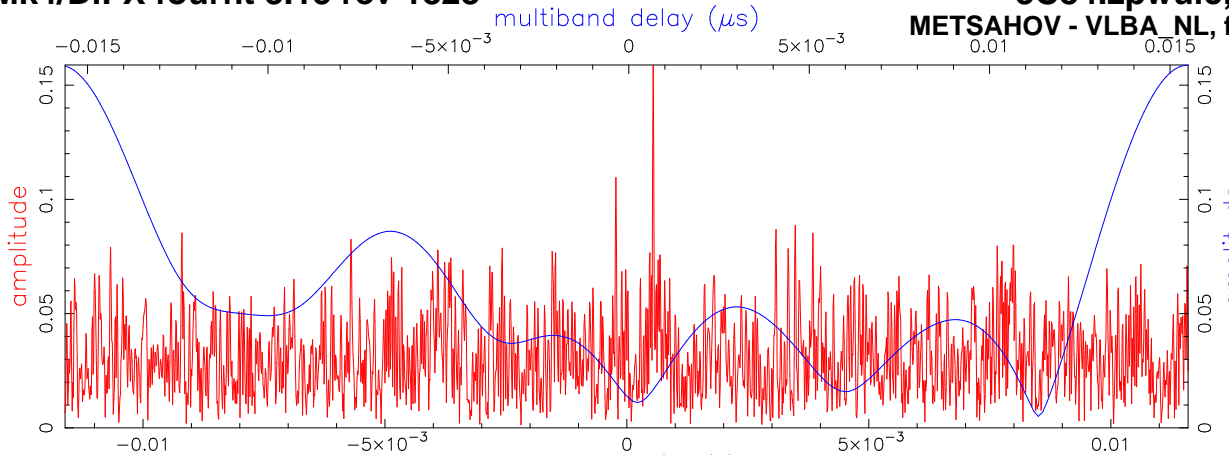


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

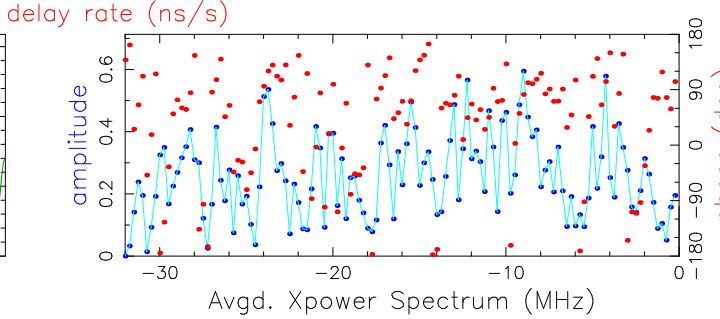
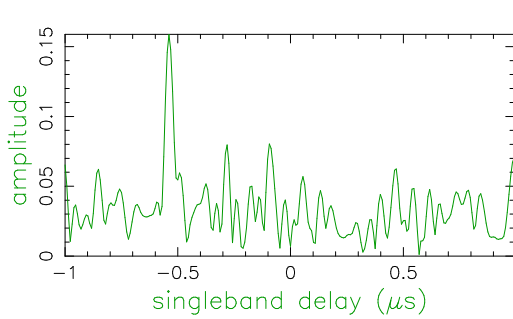


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
114.3	73.8	65.5	135.3	47.6	136.2	141.2	87.8	Phase	99.2
0.3	0.1	0.2	0.3	0.3	0.1	0.2	0.2	Ampl.	0.2
149.7	103.3	194.3	150.7	148.9	245.1	57.1	112.3	Sbd box	149.9
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.22865519749E+04	Apriori delay (usec)	1.22863871700E+04	Resid mbdelay (usec)	8.55494E-03	+/-	3.4E-04		
Sband delay (usec)	1.22865504285E+04	Apriori clock (usec)	-4.3631868E+00	Resid sbdelay (usec)	1.63258E-01	+/-	2.7E-03		
Phase delay (usec)	1.22863871732E+04	Apriori clockrate (us/s)	-2.6583995E-07	Resid phdelay (usec)	3.19993E-06	+/-	5.9E-07		
Delay rate (us/s)	-1.02474257756E+00	Apriori rate (us/s)	-1.02473612240E+00	Resid rate (us/s)	-6.45516E-06	+/-	2.6E-09		
Total phase (deg)	-864.2	Apriori accel (us/s/s)	-5.02223289800E-05	Resid phase (deg)	-800.8	+/-	18.2		

ph/seg (deg) 53.8 43.6 Search (2048X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.7 76.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.2 25.7 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.5 44.9 Inc. frq. avg. 0.203 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.273.zpwuic simultaneous interpolator

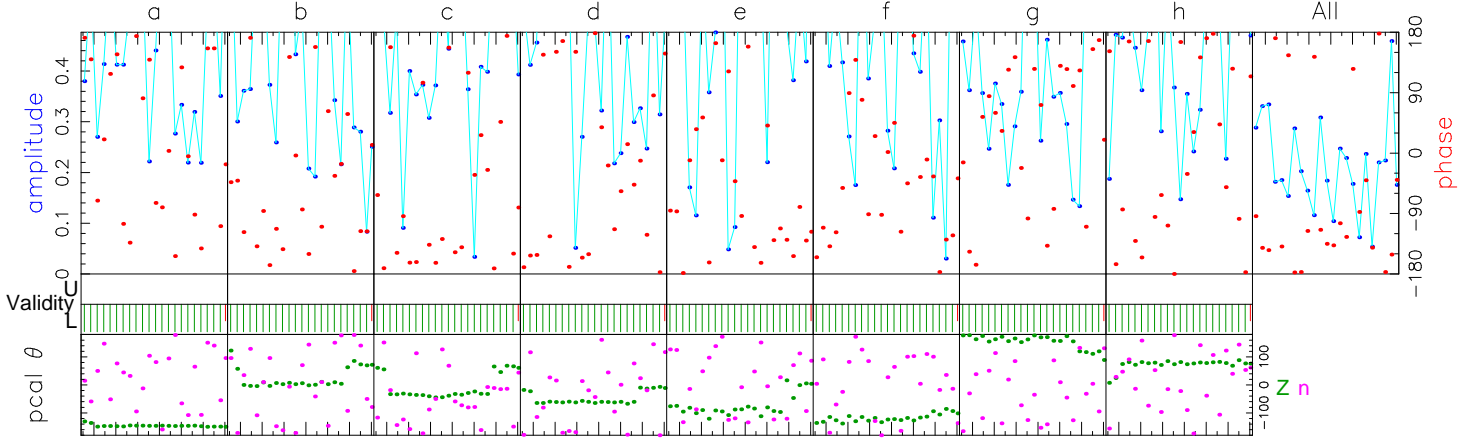


Fringe quality 0
 SNR 6.1
 Int time 395.318
 Amp 0.159
 Phase 2916.1
 PFD 1.3e-01
 Delays (us)
 SBD -0.538754
 MBD -0.015773
 Fringe rate (Hz)
 0.046642
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

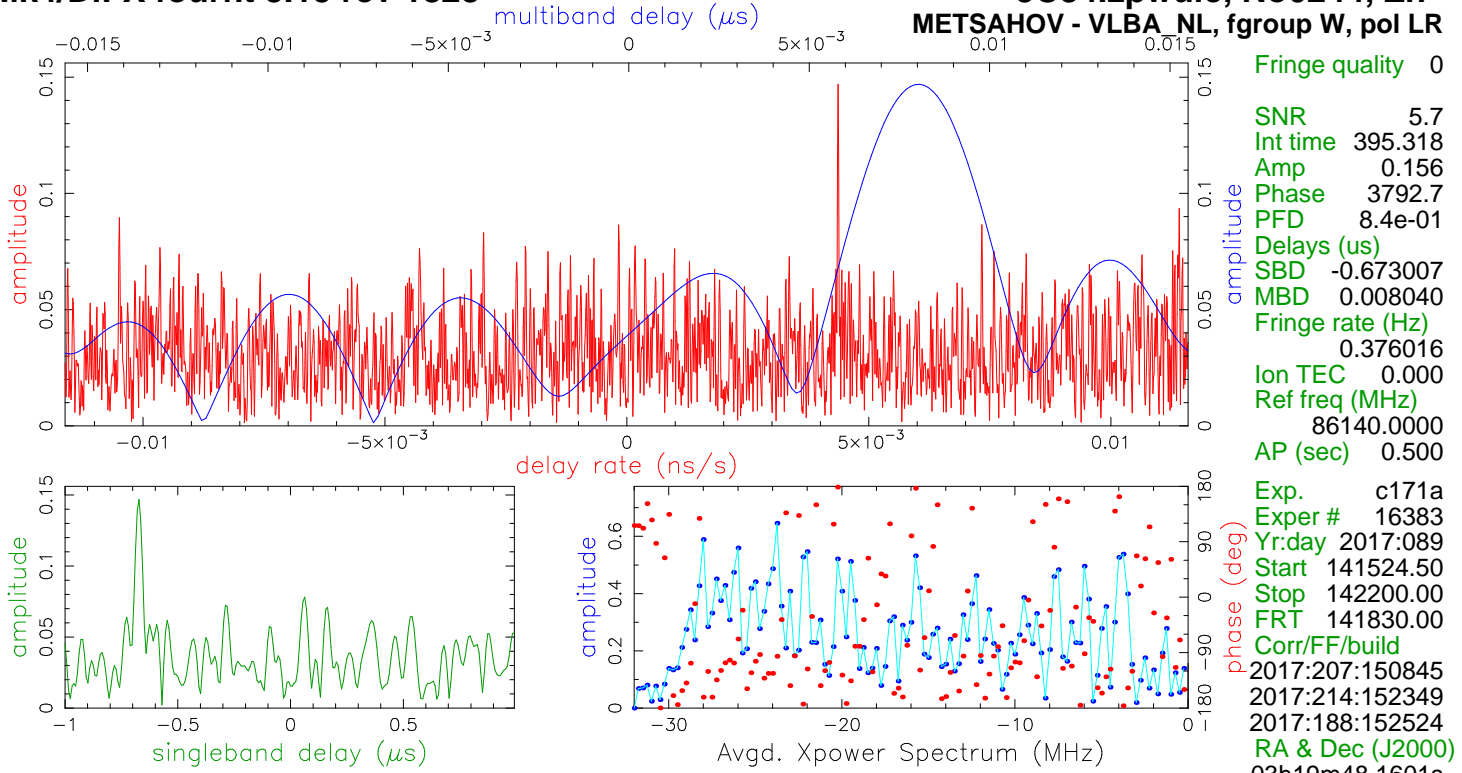


Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152347
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		1.22858401467E+04			1.22863871700E+04				-1.57733E-02	+/- 3.6E-04
Sband delay (usec)		1.22858484165E+04			-4.3631868E+00				-5.38754E-01	+/- 2.8E-03
Phase delay (usec)		1.22863871654E+04			-2.6583995E-07				-4.64108E-06	+/- 6.1E-07
Delay rate (us/s)		-1.02473558093E+00			-1.02473612240E+00				5.41469E-07	+/- 2.7E-09
Total phase (deg)			3212.7						2916.1	+/- 18.8
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)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.016	0.016
dr window (ns/s)									-0.012	0.012
ion window (TEC)									0.00	0.00
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
u, v (fr/asec) 7743.783 -2247.757										
nlags: 128 t_cohere infinite										
simultaneous interpolator										



Fringe quality 0

SNR 5.7

Int time 395.318

Amp 0.156

Phase 3792.7

PFD 8.4e-01

Delays (us)

SBD -0.673007

MBD 0.008040

Fringe rate (Hz) 0.376016

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:089

Start 141524.50

Stop 142200.00

FRT 141830.00

Corr/FF/build

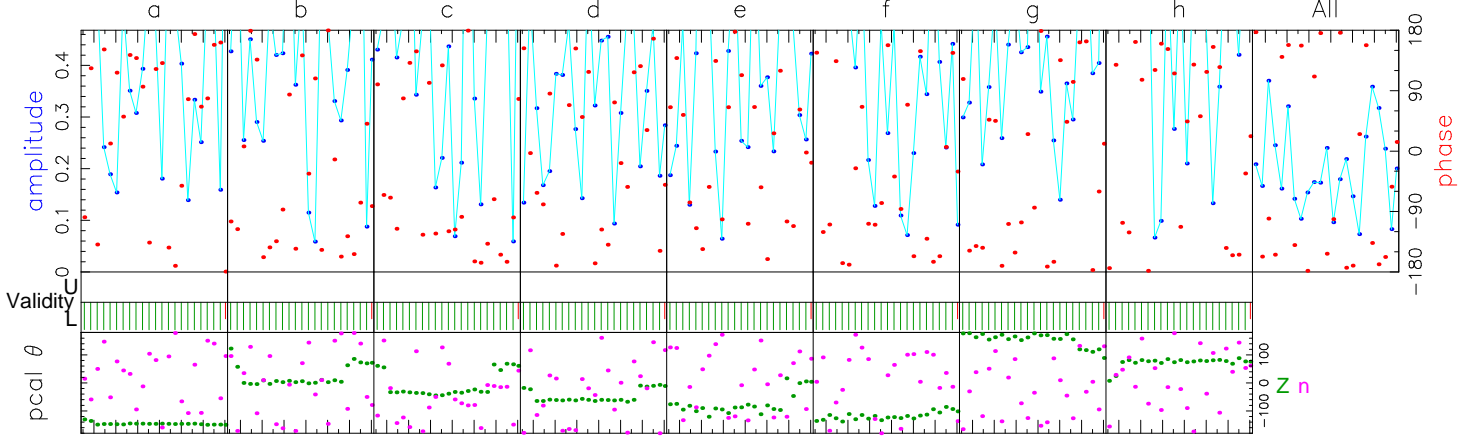
2017:207:150845

2017:214:152349

2017:188:152524

RA & Dec (J2000) 03h19m48.1601s +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
157.9	-138.2	-163.5	174.5	-140.5	-156.2	-158.8	175.4	Phase	-167.3
0.2	0.2	0.2	0.0	0.1	0.2	0.1	0.2	Ampl.	0.1
127.6	44.5	104.9	230.7	7.4	203.4	233.5	42.8	Sbd box	42.9
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	

Group delay (usec)(sbd) 1.22857077099E+04 Apriori delay (usec) 1.22863871700E+04 Resid mbdelay (usec) 8.03994E-03 +/- 3.8E-04

Sband delay (usec) 1.22857141630E+04 Apriori clock (usec) -4.3631868E+00 Resid sbdelay (usec) -6.73007E-01 +/- 3.0E-03

Phase delay (usec) 1.22863871646E+04 Apriori clockrate (us/s) -2.6583995E-07 Resid phdelay (usec) -5.39451E-06 +/- 6.5E-07

Delay rate (us/s) -1.02473175723E+00 Apriori rate (us/s) -1.02473612240E+00 Resid rate (us/s) 4.36517E-06 +/- 2.9E-09

Total phase (deg) 4089.3 Apriori accel (us/s/s) -5.02223289800E-05 Resid phase (deg) 3792.7 +/- 20.2

RMS Theor. Amplitude 0.156 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 61.6 48.6 Search (2048X32) 0.143 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

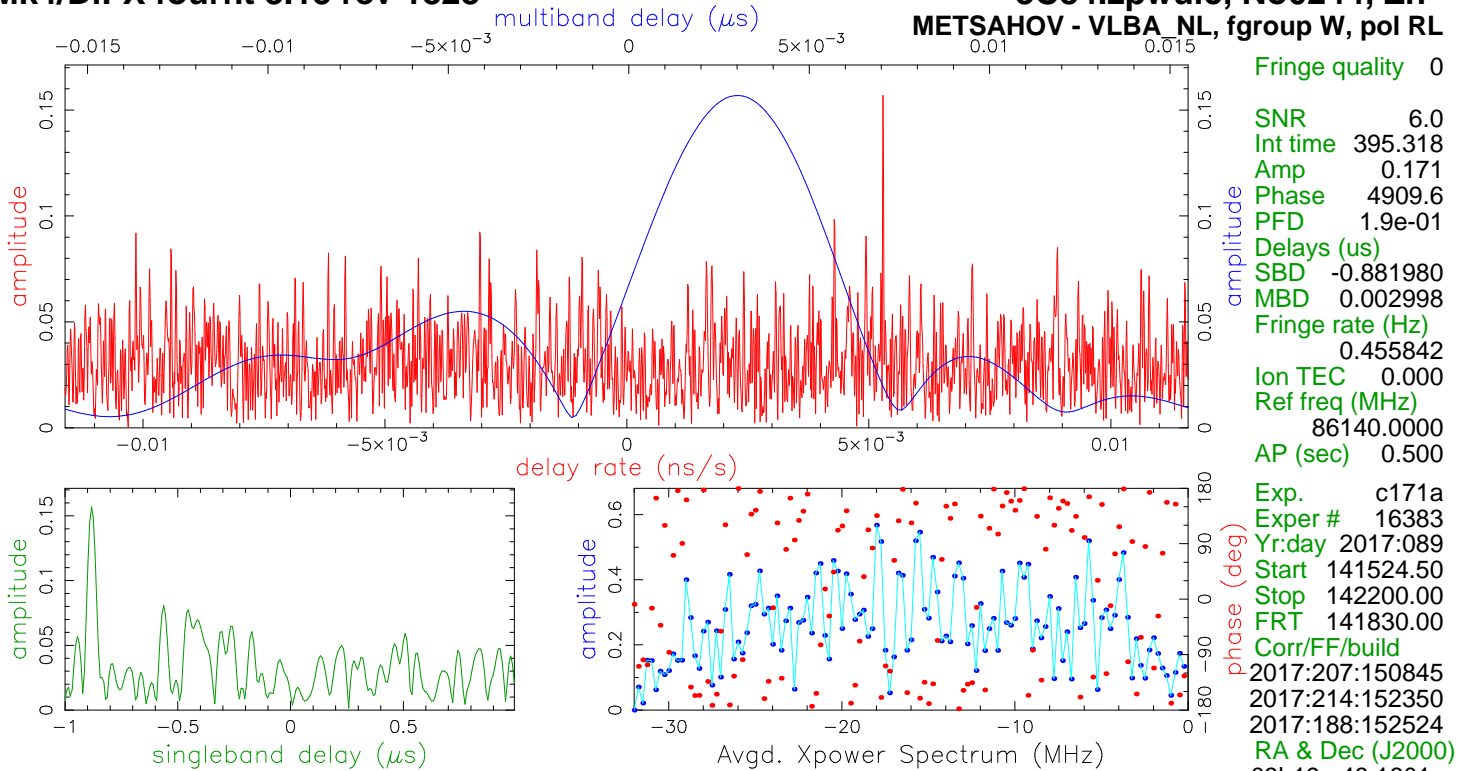
amp/seg (%) 67.3 84.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 24.5 28.6 Inc. seg. avg. 0.157 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

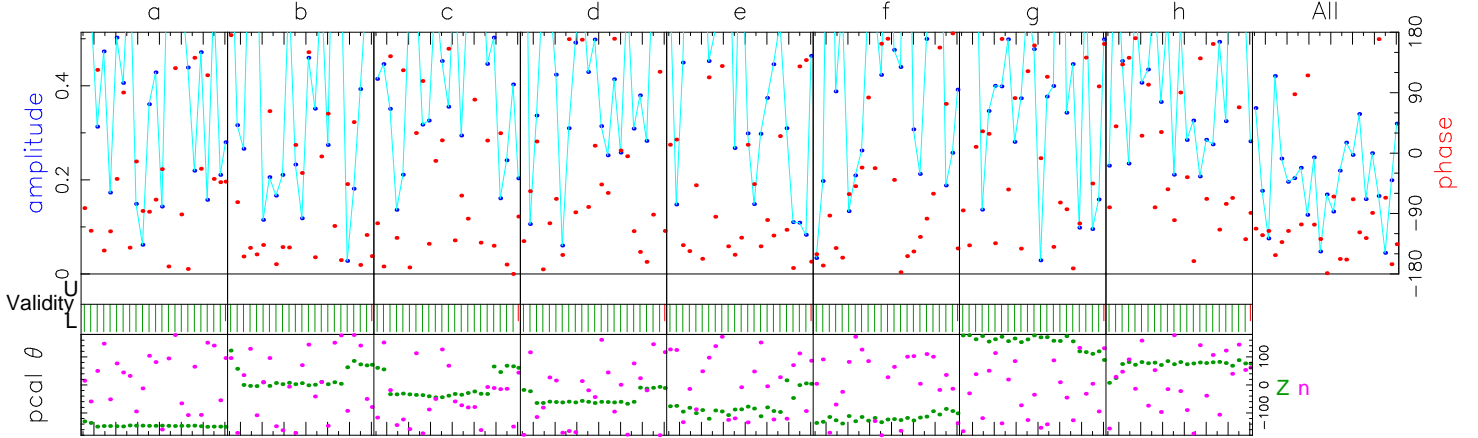
amp/frq (%) 47.4 50.0 Inc. frq. avg. 0.149 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.275.zpwuic

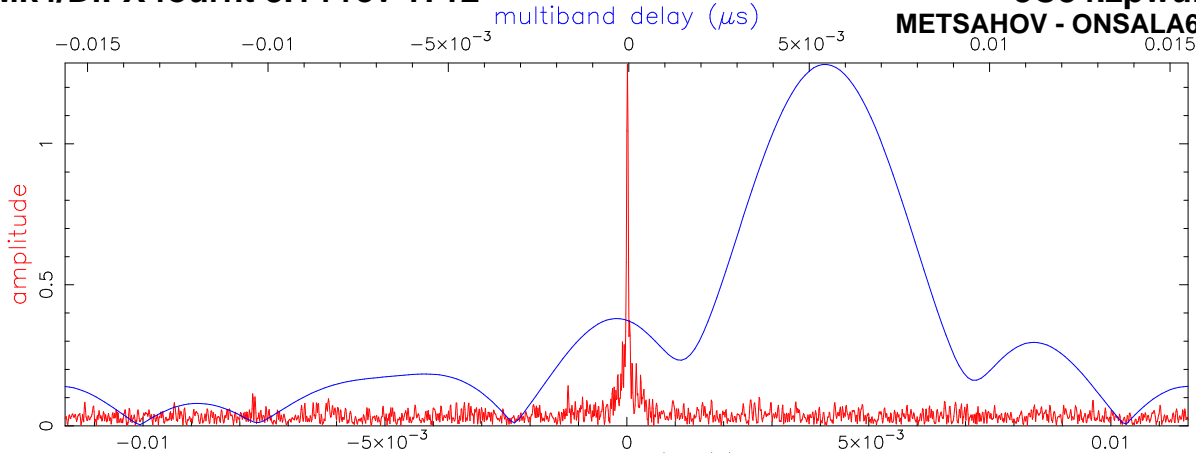


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

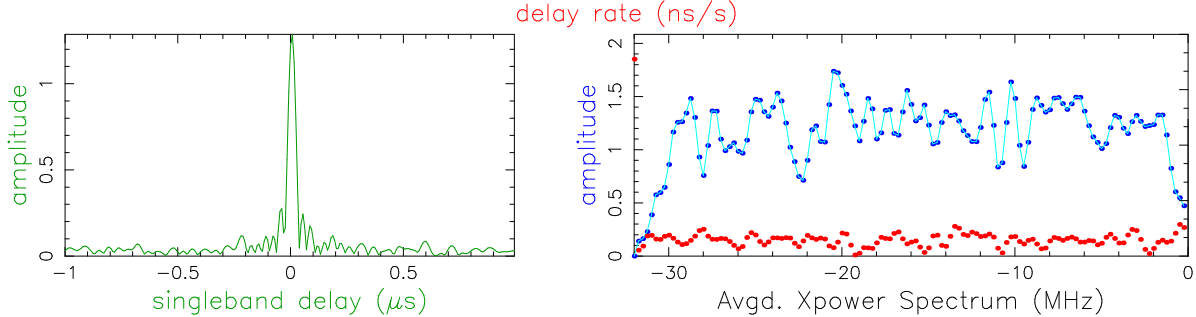


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-111.0	-143.7	-146.5	-114.3	-134.5	-139.8	-135.4	-71.5	Phase	-130.4
0.2	0.3	0.1	0.2	0.2	0.2	0.1	0.0	Ampl.	0.2
69.8	229.5	89.6	47.1	56.1	15.4	78.7	106.7	Sbd box	16.1
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.22855151679E+04		Apriori delay (usec)	1.22863871700E+04		Resid mbdelay (usec)	2.99790E-03	+/-	3.6E-04
Sband delay (usec)	1.22855051895E+04		Apriori clock (usec)	-4.3631868E+00		Resid sbdelay (usec)	-8.81980E-01	+/-	2.9E-03
Phase delay (usec)	1.22863871658E+04		Apriori clockrate (us/s)	-2.6583995E-07		Resid phdelay (usec)	-4.20574E-06	+/-	6.1E-07
Delay rate (us/s)	-1.02473083053E+00		Apriori rate (us/s)	-1.02473612240E+00		Resid rate (us/s)	5.29187E-06	+/-	2.7E-09
Total phase (deg)		5206.2	Apriori accel (us/s/s)	-5.02223289800E-05		Resid phase (deg)	4909.6	+/-	19.0

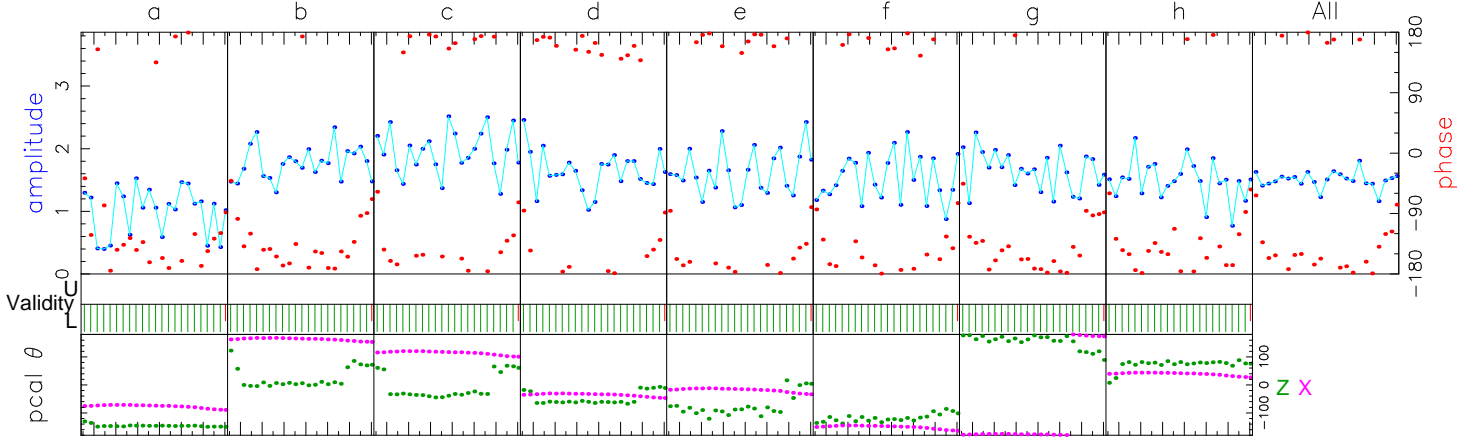
ph/seg (deg) 50.8 45.5 Search (2048X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.5 79.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.9 26.8 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 41.3 46.9 Inc. frq. avg. 0.161 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Z: az 214.7 el 69.0 pa 21.9 n: az 51.6 el 20.1 pa -52.0 u,v (fr/asec) 7743.783 -2247.757 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/Zn.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/Zn.W.276.zpwuic simultaneous interpolator



Fringe quality 6
 SNR 49.5
 Int time 395.318
 Amp 1.287
 Phase -158.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.006172
 MBD 0.005429
 Fringe rate (Hz) 0.000558
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113719
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

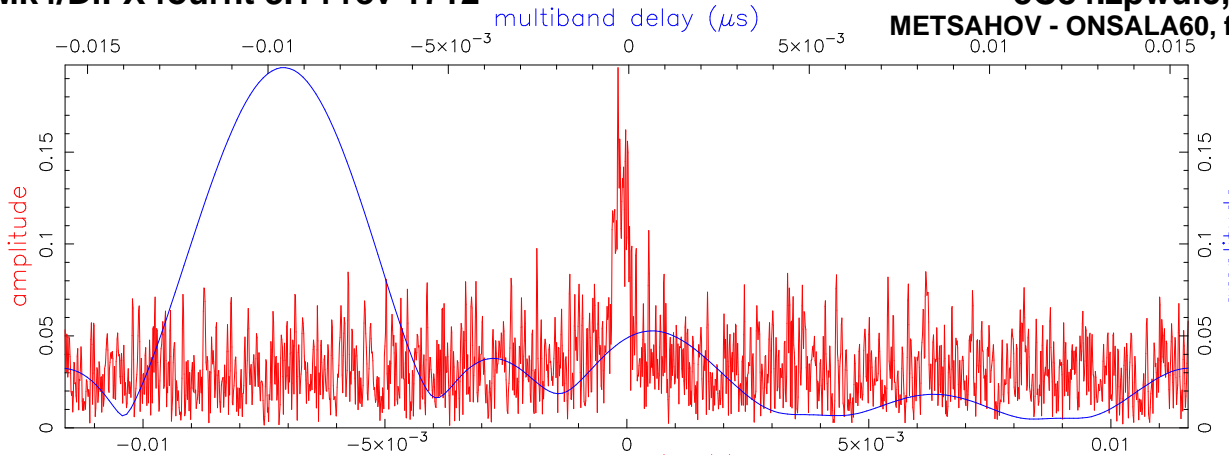


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
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	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)	-6.29925450481E+02	-6.29924707581E+02	-6.29930884705E+02	-6.29930879581E+02	-6.29930879581E+02	-6.29930879581E+02	-6.29930879581E+02	-6.29930879581E+02	5.42910E-03	+/- 4.4E-05
Sband delay (usec)	-6.29924707581E+02	-6.29924707581E+02	-6.29930884705E+02	-6.29930879581E+02	-6.29930879581E+02	-6.29930879581E+02	-6.29930879581E+02	-6.29930879581E+02	6.17200E-03	+/- 3.5E-04
Phase delay (usec)	-6.29930884705E+02	-6.29930884705E+02	-6.29930884705E+02	-6.29930884705E+02	-6.29930884705E+02	-6.29930884705E+02	-6.29930884705E+02	-6.29930884705E+02	-5.12312E-06	+/- 7.5E-08
Delay rate (us/s)	-1.19495942871E-01	-1.19495942871E-01	-1.19495942871E-01	-1.19495942871E-01	-1.19495942871E-01	-1.19495942871E-01	-1.19495942871E-01	-1.19495942871E-01	6.48363E-09	+/- 3.3E-10
Total phase (deg)			-147.0						-158.9	+/- 2.3
RMS	32.2	5.6								
Theor.										
Amplitude				1.287 +/- 0.026						
Search (2048X32)				1.219						
Interp.				0.000						
Inc. seg. avg.				1.494						
Inc. frq. avg.				1.316						
pcal mode:	MANUAL	MANUAL							PC period (AP's) 5, 5	
pcal rate:	0.000E+00	0.000E+00							0.000E+00 (us/s)	sb window (us) -1.000 1.000
Bits/sample:	2x2								SampCntNorm: enabled	mb window (us) -0.016 0.016
Sample rate(MSamp/s):	64									dr window (ns/s) -0.012 0.012
Data rate(Mb/s):	1024									ion window (TEC) 0.00 0.00
nlags:	128									
t_cohere:	infinite									

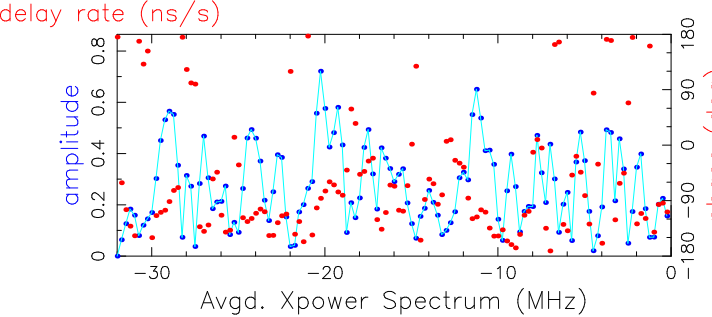
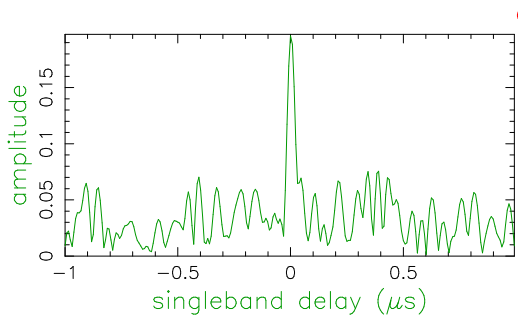
Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 u,v (fr/asec) 924.595 525.565 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.133.zpwiuc



Fringe quality 9

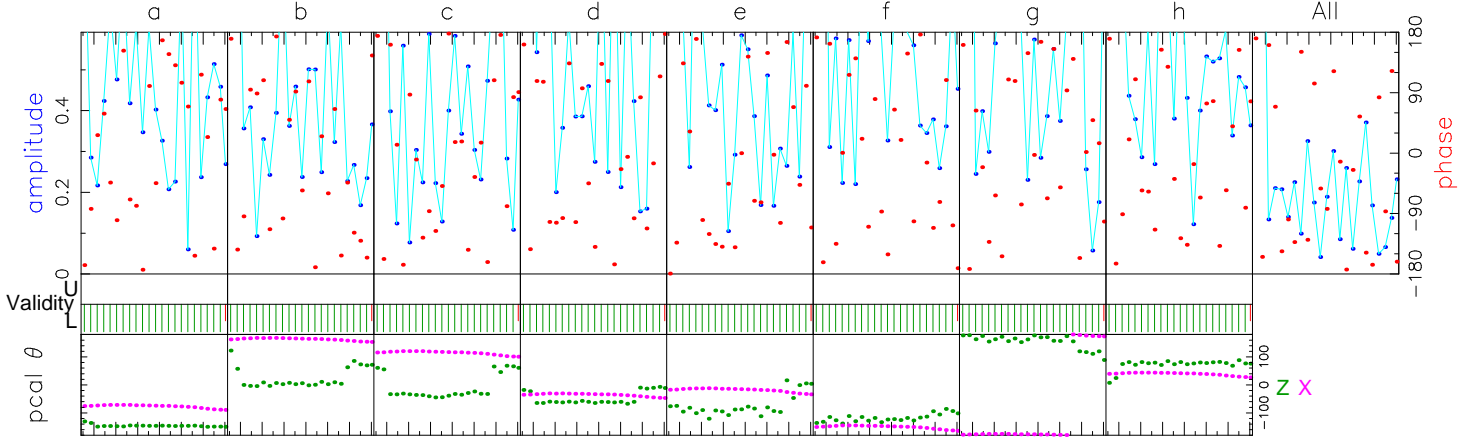
SNR 7.6
Int time 395.318
Amp 0.197
Phase -172.4
PFD 5.3e-06
Delays (us)
SBD 0.002236
MBD -0.009625
Fringe rate (Hz)
-0.015412
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:208:113720
2017:170:130423
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



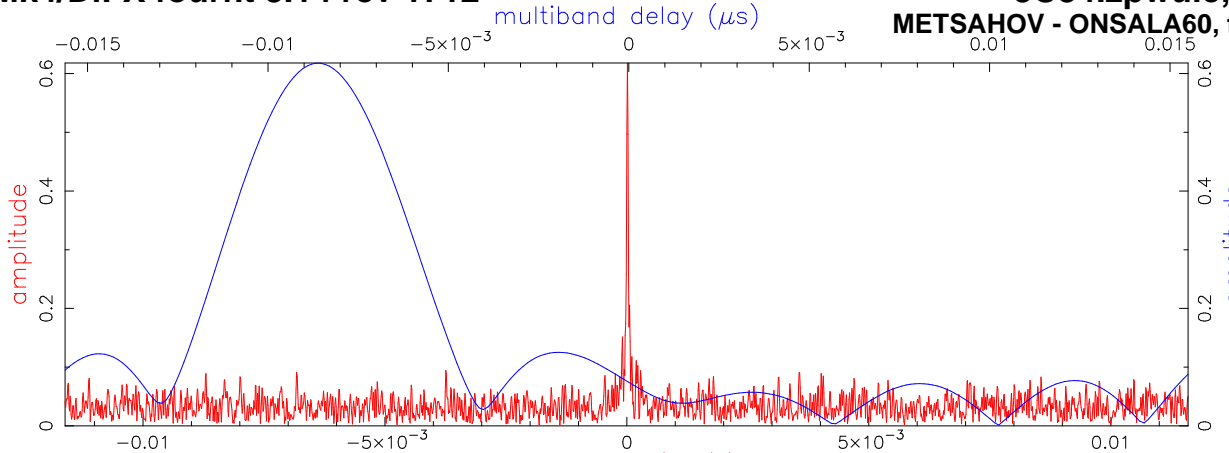
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	178.3	-164.8	-169.1	173.4	-162.4	-174.0	177.1	-159.5	Phase	-172.4
	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	147.8	78.8	156.1	129.2	100.0	178.9	129.8	70.1	Sbd box	129.3
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	-6.29940504247E+02	Apriori delay (usec)	-6.29930879581E+02	Resid mbdelay (usec)	-9.62467E-03	+/-	2.9E-04
Sband delay (usec)	-6.29928643581E+02	Apriori clock (usec)	-1.3267570E+00	Resid sbdelay (usec)	2.23600E-03	+/-	2.3E-03
Phase delay (usec)	-6.29930885142E+02	Apriori clockrate (us/s)	-2.8330336E-07	Resid phdelay (usec)	-5.56012E-06	+/-	4.9E-07
Delay rate (us/s)	-1.19496128271E-01	Apriori rate (us/s)	-1.19495949354E-01	Resid rate (us/s)	-1.78917E-07	+/-	2.1E-09
Total phase (deg)	-160.6	Apriori accel (us/s/s)	5.25878031532E-06	Resid phase (deg)	-172.4	+/-	15.1

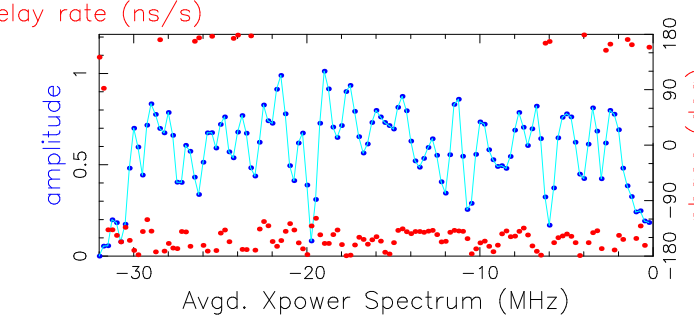
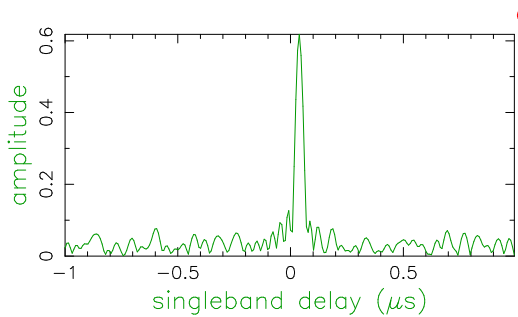
ph/seg (deg)	81.0	Theor.	36.2	Amplitude	0.197 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	206.6	Search (2048X32)	0.193	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	11.1	Inc. seg. avg.	0.246	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016 0.016
amp/frq (%)	23.7	Inc. frq. avg.	0.186	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
				u,v (fr/asec)	924.595 525.565	nlags:	128	ion window (TEC)	0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.134.zpwiuc

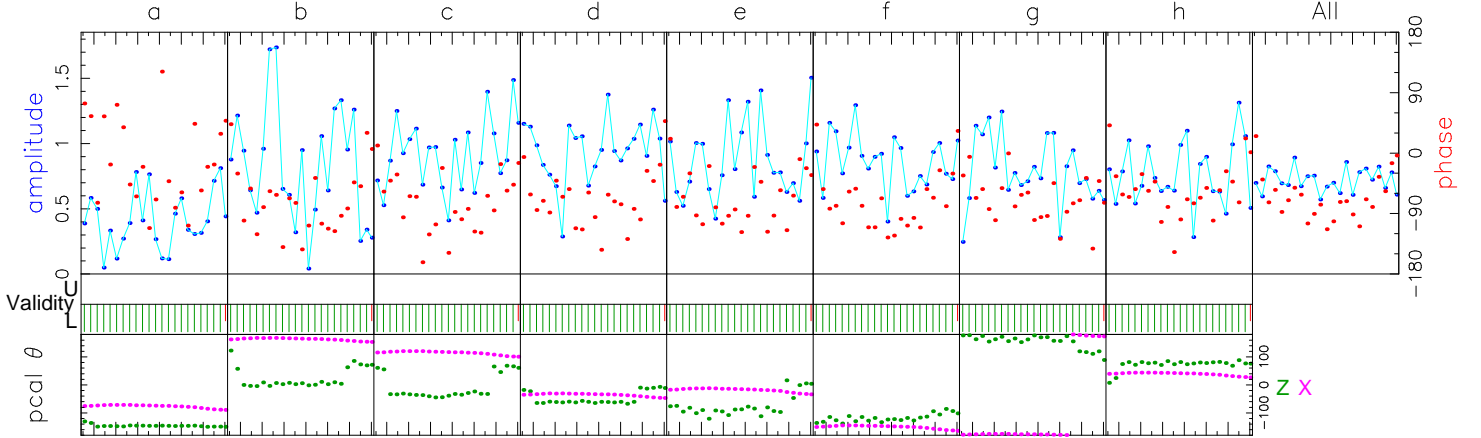


Fringe quality 9
 SNR 23.8
 Int time 395.318
 Amp 0.618
 Phase -428.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.038509
 MBD -0.008617
 Fringe rate (Hz)
 0.000591
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113722
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

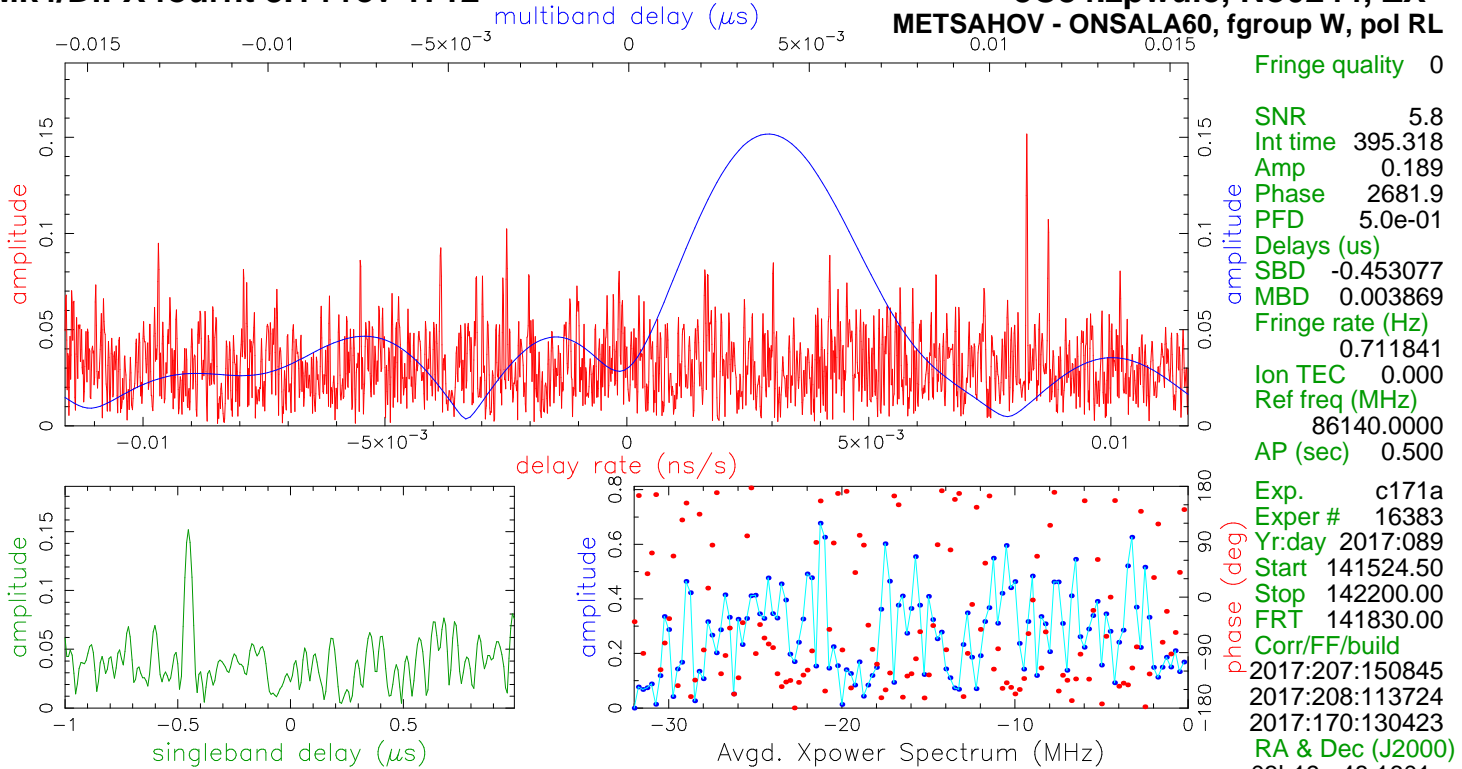


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:X	0:0	0:0	0:0	0:0	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	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		

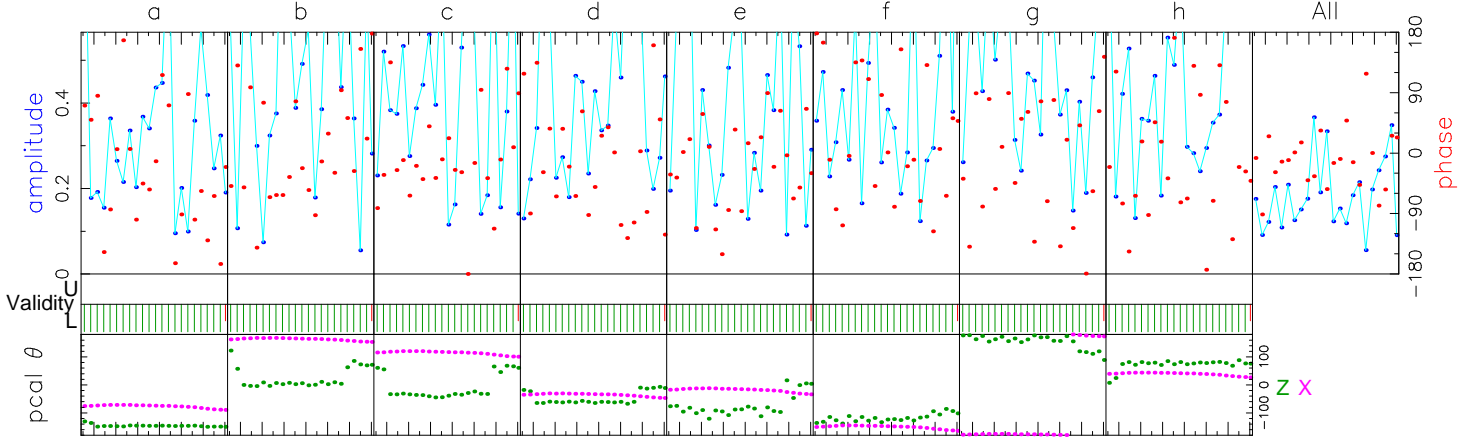
Group delay (usec)(sbd) -6.29876996606E+02 Apriori delay (usec) -6.29930879581E+02 Resid mbdelay (usec) -8.61702E-03 +/- 9.1E-05
 Sband delay (usec) -6.29892370081E+02 Apriori clock (usec) -1.3267570E+00 Resid sbdelay (usec) 3.85095E-02 +/- 7.2E-04
 Phase delay (usec) -6.29930881778E+02 Apriori clockrate (us/s) -2.8330336E-07 Resid phdelay (usec) -2.19666E-06 +/- 1.6E-07
 Delay rate (us/s) -1.19495942489E-01 Apriori rate (us/s) -1.19495949354E-01 Resid rate (us/s) 6.86528E-09 +/- 6.8E-10
 Total phase (deg) -416.3 Apriori accel (us/s/s) 5.25878031532E-06 Resid phase (deg) -428.1 +/- 4.8

RMS Theor. Amplitude 0.618 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 32.8 11.6 Search (2048X32) 0.595 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 22.0 20.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 17.2 6.8 Inc. seg. avg. 0.708 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 25.1 11.9 Inc. frq. avg. 0.623 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

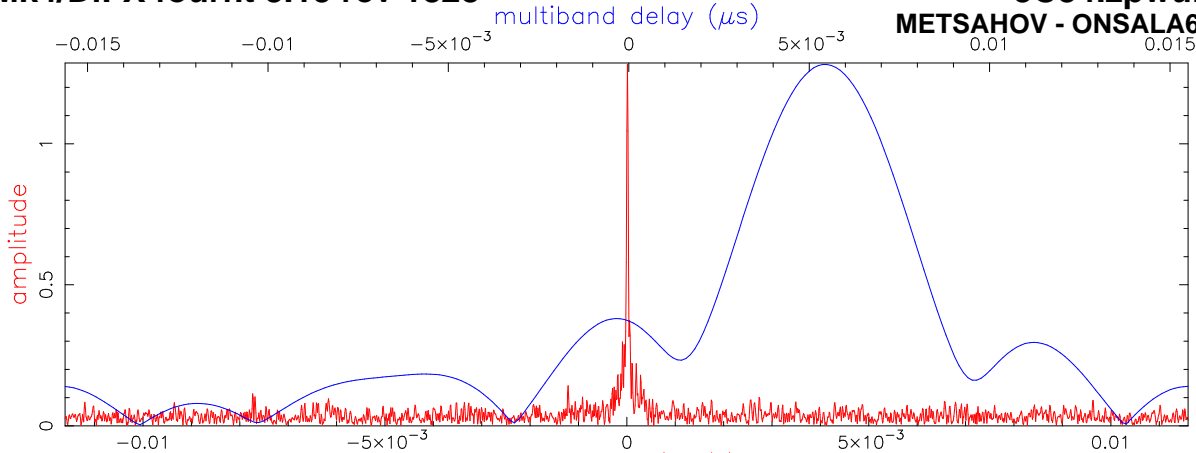
Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 u,v (fr/asec) 924.595 525.565 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX...zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.135.zpwiuc



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



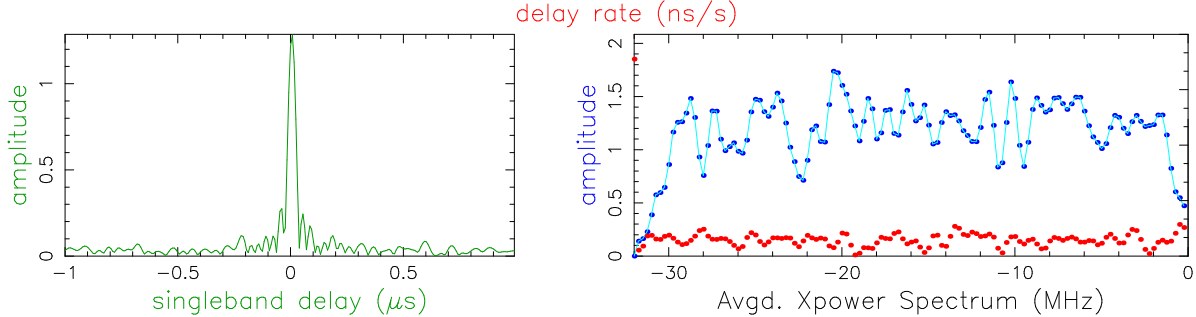
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-16.0	-16.2	-22.3	-33.9	-9.2	-17.9	30.3	-48.2	Phase	-18.1
0.1	0.3	0.3	0.2	0.3	0.1	0.1	0.2	Ampl.	0.2
220.7	72.3	227.8	49.2	72.1	213.7	89.7	17.4	Sbd box	71.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-6.30395760186E+02		Apriori delay (usec)	-6.29930879581E+02		Resid mbdelay (usec)	3.86940E-03	+/-	3.7E-04
Sband delay (usec)	-6.30383956581E+02		Apriori clock (usec)	-1.3267570E+00		Resid sbdelay (usec)	-4.53077E-01	+/-	3.0E-03
Phase delay (usec)	-6.29930880166E+02		Apriori clockrate (us/s)	-2.8330336E-07		Resid phdelay (usec)	-5.84681E-07	+/-	6.3E-07
Delay rate (us/s)	-1.19487685589E-01		Apriori rate (us/s)	-1.19495949354E-01		Resid rate (us/s)	8.26377E-06	+/-	2.8E-09
Total phase (deg)		2693.7	Apriori accel (us/s/s)	5.25878031532E-06		Resid phase (deg)	2681.9	+/-	19.6
RMS	Theor.	Amplitude	0.189 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
45.1	47.1	Search (2048X32)	0.148	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016	
58.5	82.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012	
24.5	27.8	Inc. seg. avg.	0.174	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00	
42.3	48.5	Inc. frq. avg.	0.178	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite				
Z: az 214.7 el 69.0 pa 21.9	X: az 189.2 el 74.0 pa 6.7	u,v (fr/asec)	924.595 525.565						simultaneous interpolator



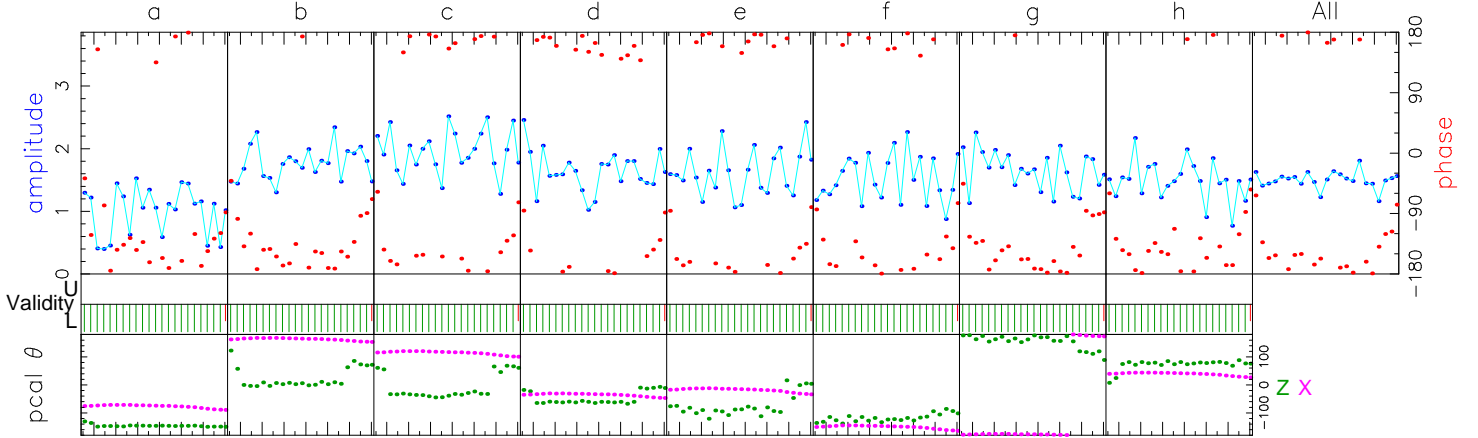
Fringe quality 6

SNR 49.5
 Int time 395.318
 Amp 1.287
 Phase -158.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.006172
 MBD 0.005429
 Fringe rate (Hz) 0.000558
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152353
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-147.4	-142.5	-165.6	-178.8	-170.6	-170.2	-143.3	-147.6	Phase	-158.9
0.8	1.5	1.6	1.3	1.4	1.3	1.3	1.2	Ampl.	1.3
130.3	129.4	129.7	130.0	129.9	130.1	129.7	129.6	Sbd box	129.8
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-6.29925450481E+02	Apriori delay (usec)	-6.29930879581E+02	Resid mbdelay (usec)	5.42910E-03	+/-	4.4E-05		
Sband delay (usec)	-6.29924707581E+02	Apriori clock (usec)	-1.3267570E+00	Resid sbdelay (usec)	6.17200E-03	+/-	3.5E-04		
Phase delay (usec)	-6.29930884705E+02	Apriori clockrate (us/s)	-2.8330336E-07	Resid phdelay (usec)	-5.12312E-06	+/-	7.5E-08		
Delay rate (us/s)	-1.19495942871E-01	Apriori rate (us/s)	-1.19495949354E-01	Resid rate (us/s)	6.48363E-09	+/-	3.3E-10		
Total phase (deg)	-147.0	Apriori accel (us/s/s)	5.25878031532E-06	Resid phase (deg)	-158.9	+/-	2.3		

ph/seg (deg) 32.2 5.6
 amp/seg (%) 19.4 9.7
 ph/frq (deg) 15.7 3.3
 amp/frq (%) 17.9 5.7

RMS Theor. Amplitude 1.287 +/- 0.026
 Search (2048X32) 1.219
 Interp. 0.000
 Inc. seg. avg. 1.494
 Inc. frq. avg. 1.316

Group delay (usec)(sbd) -6.29925450481E+02
 Sband delay (usec) -6.29924707581E+02
 Phase delay (usec) -6.29930884705E+02
 Delay rate (us/s) -1.19495942871E-01
 Total phase (deg) -147.0

Apriori delay (usec) -6.29930879581E+02
 Apriori clock (usec) -1.3267570E+00
 Apriori clockrate (us/s) -2.8330336E-07
 Apriori rate (us/s) -1.19495949354E-01
 Apriori accel (us/s/s) 5.25878031532E-06

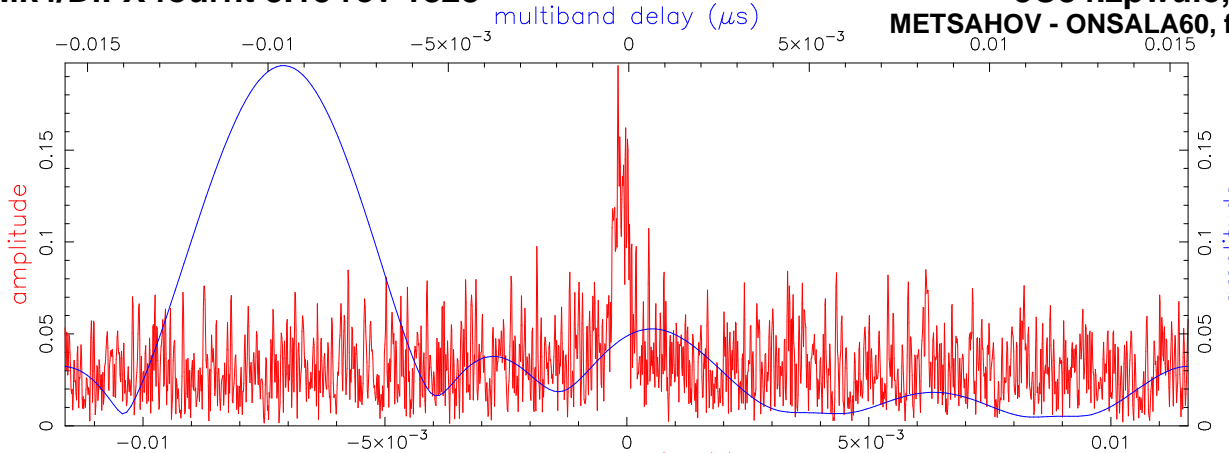
Resid mbdelay (usec) 5.42910E-03 +/- 4.4E-05
 Resid sbdelay (usec) 6.17200E-03 +/- 3.5E-04
 Resid phdelay (usec) -5.12312E-06 +/- 7.5E-08
 Resid rate (us/s) 6.48363E-09 +/- 3.3E-10
 Resid phase (deg) -158.9 +/- 2.3

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(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

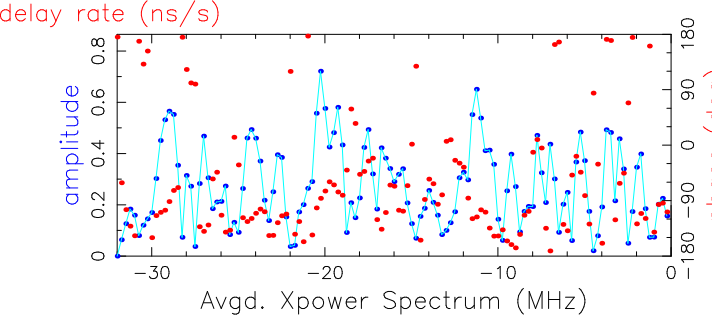
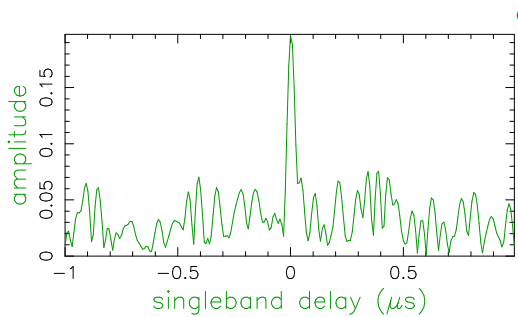
sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.012 0.012
 ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 u,v (fr/asec) 924.595 525.565 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.277.zpwiuc

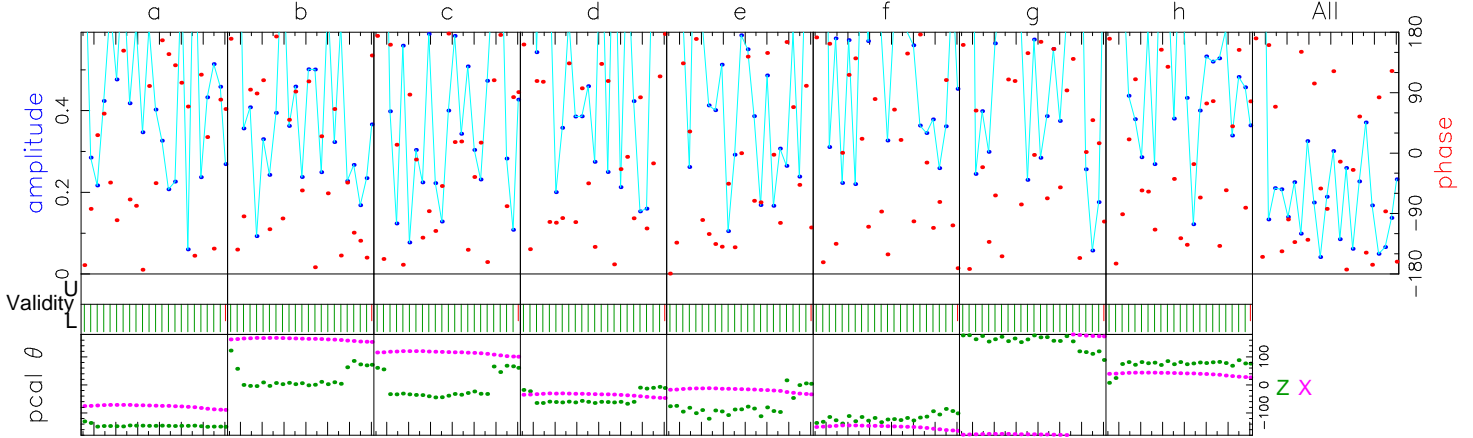


Fringe quality 9
 SNR 7.6
 Int time 395.318
 Amp 0.197
 Phase -172.4
 PFD 5.3e-06
 Delays (us)
 SBD 0.002236
 MBD -0.009625
 Fringe rate (Hz)
 -0.015412
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152355
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

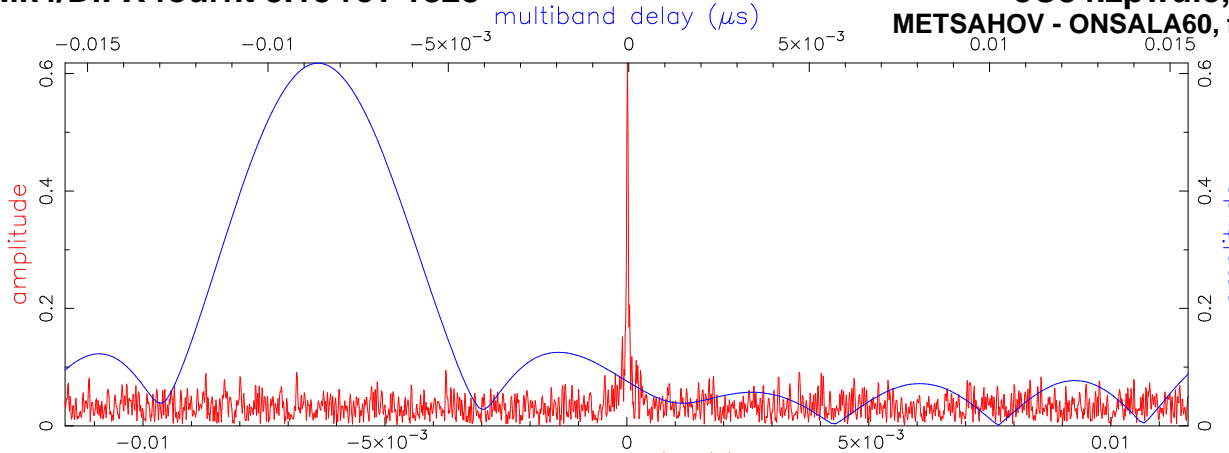


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	178.3	-164.8	-169.1	173.4	-162.4	-174.0	177.1	-159.5	Phase	-172.4
	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	147.8	78.8	156.1	129.2	100.0	178.9	129.8	70.1	Sbd box	129.3
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

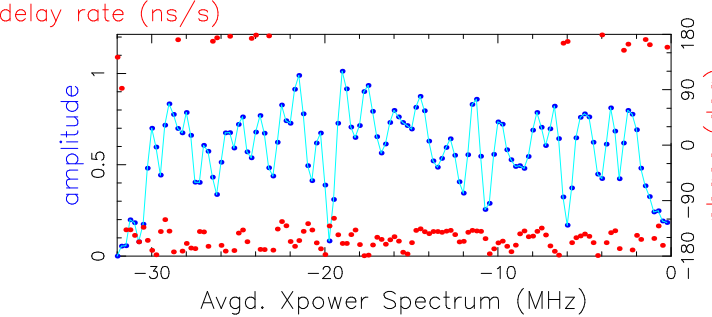
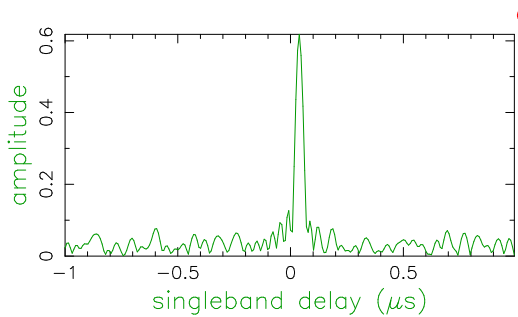
Group delay (usec)(sbd)	-6.29940504247E+02	Apriori delay (usec)	-6.29930879581E+02	Resid mbdelay (usec)	-9.62467E-03	+/-	2.9E-04
Sband delay (usec)	-6.29928643581E+02	Apriori clock (usec)	-1.3267570E+00	Resid sbdelay (usec)	2.23600E-03	+/-	2.3E-03
Phase delay (usec)	-6.29930885142E+02	Apriori clockrate (us/s)	-2.8330336E-07	Resid phdelay (usec)	-5.56012E-06	+/-	4.9E-07
Delay rate (us/s)	-1.19496128271E-01	Apriori rate (us/s)	-1.19495949354E-01	Resid rate (us/s)	-1.78917E-07	+/-	2.1E-09
Total phase (deg)	-160.6	Apriori accel (us/s/s)	5.25878031532E-06	Resid phase (deg)	-172.4	+/-	15.1

ph/seg (deg)	81.0	Theor.	36.2	Amplitude	0.197 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	206.6	Search (2048X32)	0.193	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	11.1	Inc. seg. avg.	0.246	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016 0.016
amp/frq (%)	23.7	Inc. frq. avg.	0.186	Sample rate (MSamp/s):	64	Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
				nlags:	128	t_cohere:	infinite	ion window (TEC)	0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 u,v (fr/asec) 924.595 525.565 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.278.zpwuic

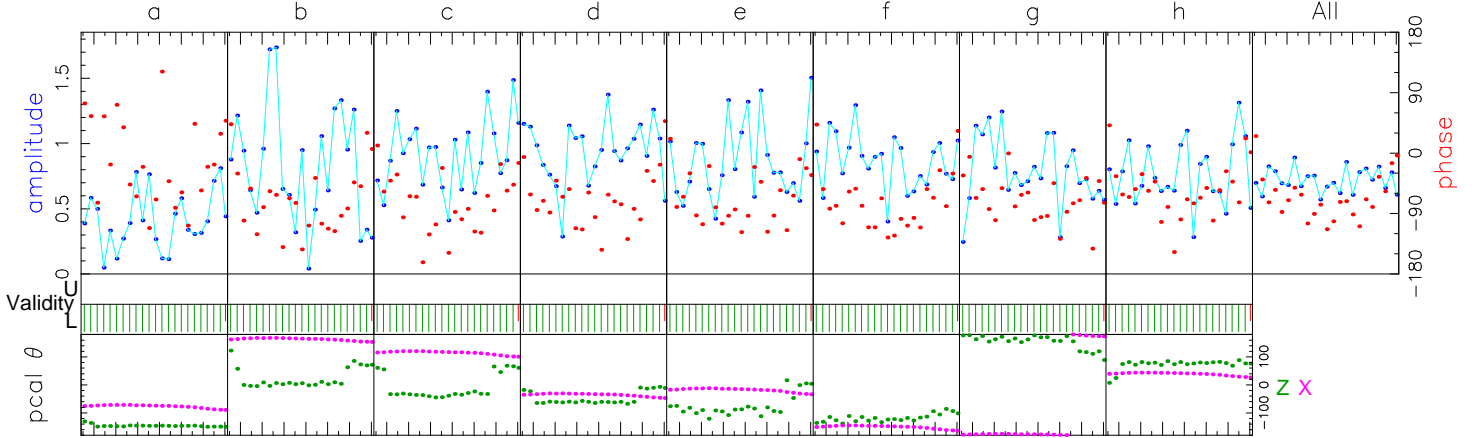


Fringe quality 9
 SNR 23.8
 Int time 395.318
 Amp 0.618
 Phase -428.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.038509
 MBD -0.008617
 Fringe rate (Hz)
 0.000591
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



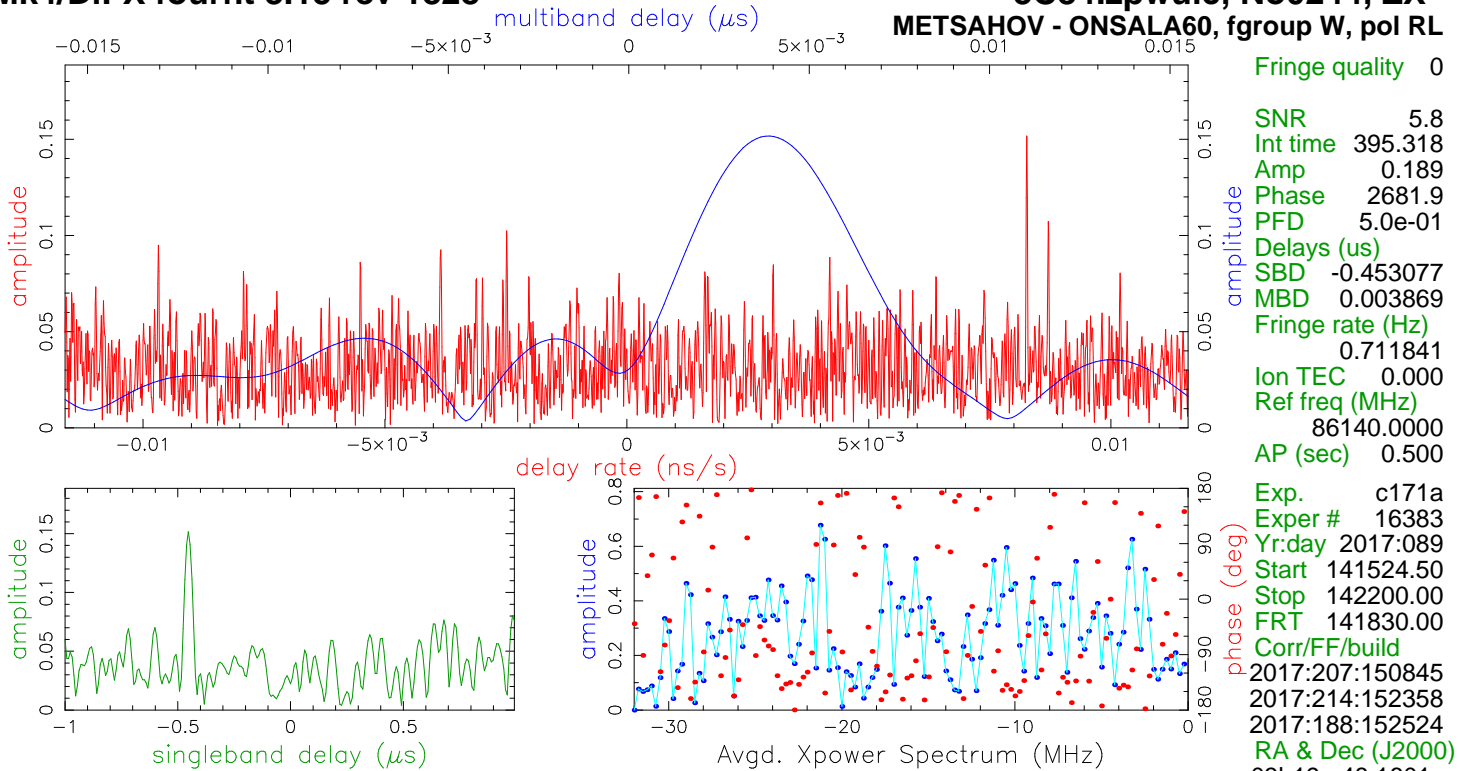
Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152356
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

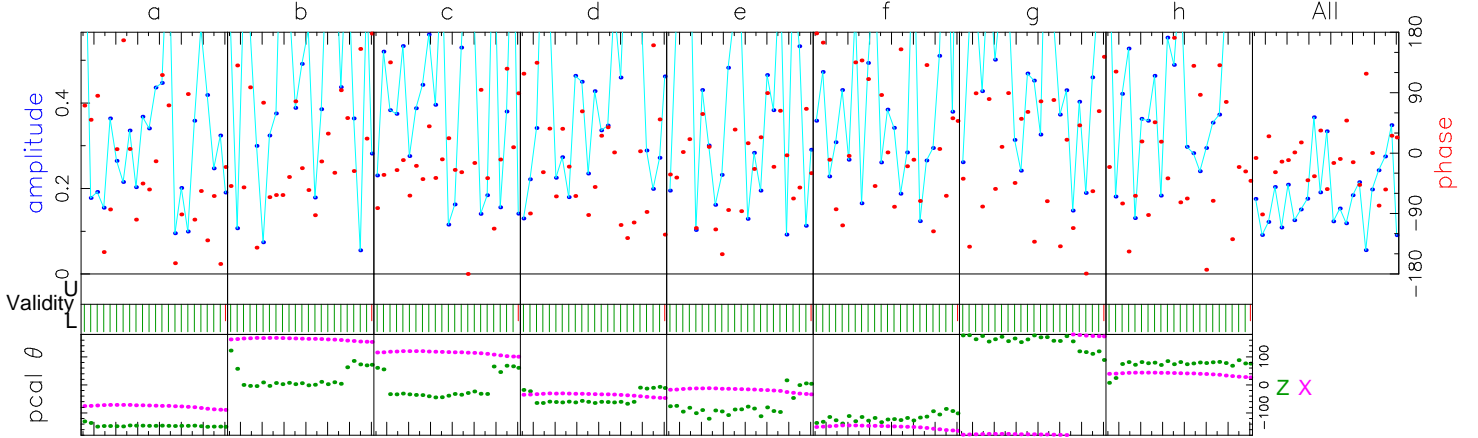


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-28.9	-75.7	-70.7	-71.3	-69.6	-74.9	-68.8	-57.4	Phase	-68.1
	0.2	0.6	0.7	0.8	0.7	0.7	0.7	0.6	Ampl.	0.6
	99.3	133.6	133.9	133.9	134.3	133.7	134.0	133.5	Sbd box	133.9
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.29876996606E+02		Apriori delay (usec)		-6.29930879581E+02		Resid mbdelay (usec)		-8.61702E-03	+/- 9.1E-05
Sband delay (usec)	-6.29892370081E+02		Apriori clock (usec)		-1.3267570E+00		Resid sbdelay (usec)		3.85095E-02	+/- 7.2E-04
Phase delay (usec)	-6.29930881778E+02		Apriori clockrate (us/s)		-2.8330336E-07		Resid phdelay (usec)		-2.19666E-06	+/- 1.6E-07
Delay rate (us/s)	-1.19495942489E-01		Apriori rate (us/s)		-1.19495949354E-01		Resid rate (us/s)		6.86528E-09	+/- 6.8E-10
Total phase (deg)			Apriori accel (us/s/s)		5.25878031532E-06		Resid phase (deg)		-428.1	+/- 4.8

RMS Theor. Amplitude 0.618 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 32.8 11.6 Search (2048X32) 0.595 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 22.0 20.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 17.2 6.8 Inc. seg. avg. 0.708 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 25.1 11.9 Inc. frq. avg. 0.623 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 u,v (fr/asec) 924.595 525.565 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.279.zpwiuc



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.0	-16.2	-22.3	-33.9	-9.2	-17.9	30.3	-48.2	Phase	-18.1
	0.1	0.3	0.3	0.2	0.3	0.1	0.1	0.2	Ampl.	0.2
	220.7	72.3	227.8	49.2	72.1	213.7	89.7	17.4	Sbd box	71.0
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.30395760186E+02		Apriori delay (usec)	-6.29930879581E+02	Resid mbdelay (usec)	3.86940E-03	+/-	3.7E-04		
Sband delay (usec)	-6.30383956581E+02		Apriori clock (usec)	-1.3267570E+00	Resid sbdelay (usec)	-4.53077E-01	+/-	3.0E-03		
Phase delay (usec)	-6.29930880166E+02		Apriori clockrate (us/s)	-2.8330336E-07	Resid phdelay (usec)	-5.84681E-07	+/-	6.3E-07		
Delay rate (us/s)	-1.19487685589E-01		Apriori rate (us/s)	-1.19495949354E-01	Resid rate (us/s)	8.26377E-06	+/-	2.8E-09		
Total phase (deg)		2693.7	Apriori accel (us/s/s)	5.25878031532E-06	Resid phase (deg)	2681.9	+/-	19.6		

ph/seg (deg) 45.1 47.1 Search (2048X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

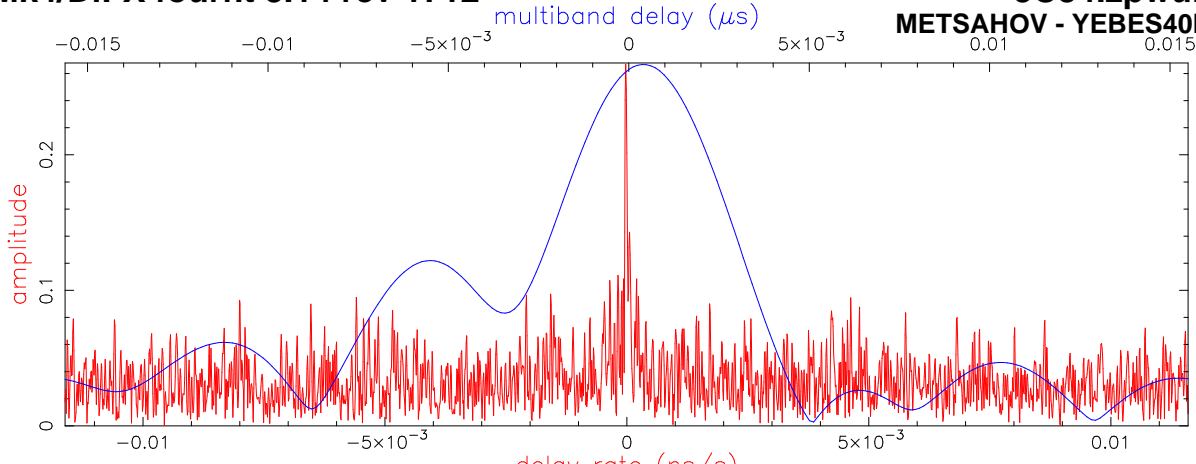
amp/seg (%) 58.5 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 24.5 27.8 Inc. seg. avg. 0.174 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

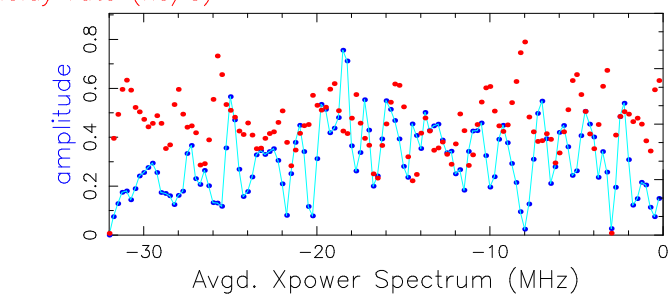
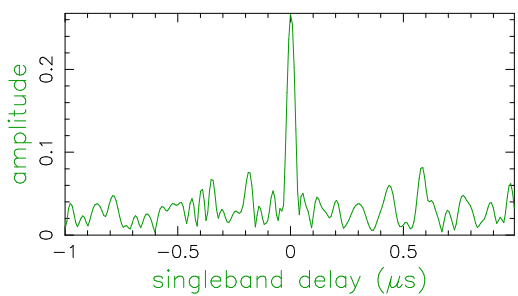
amp/frq (%) 42.3 48.5 Inc. frq. avg. 0.178 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

Z: az 214.7 el 69.0 pa 21.9 X: az 189.2 el 74.0 pa 6.7 u,v (fr/asec) 924.595 525.565 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZX.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZX.W.280.zpwiuc

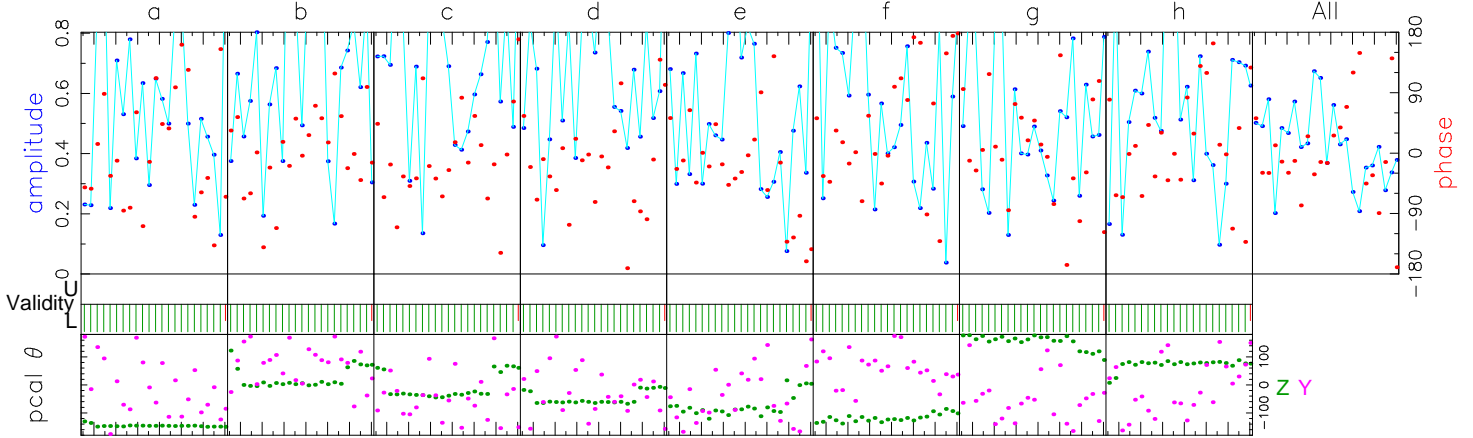


Fringe quality 9
 SNR 10.3
 Int time 395.219
 Amp 0.268
 Phase -8.2
 PFD 1.6e-16
 Delays (us)
 SBD 0.001698
 MBD 0.000410
 Fringe rate (Hz)
 -0.002030
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113726
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

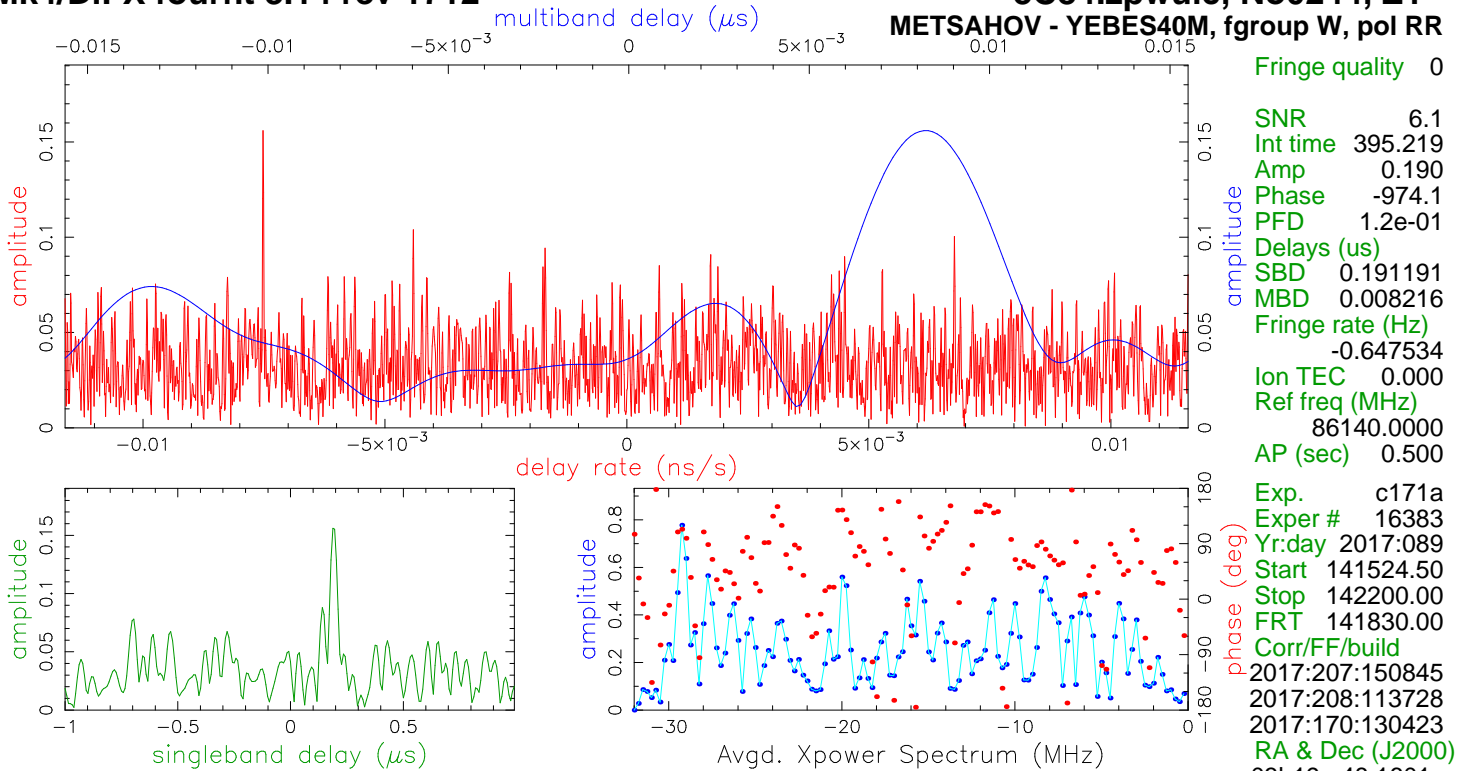


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

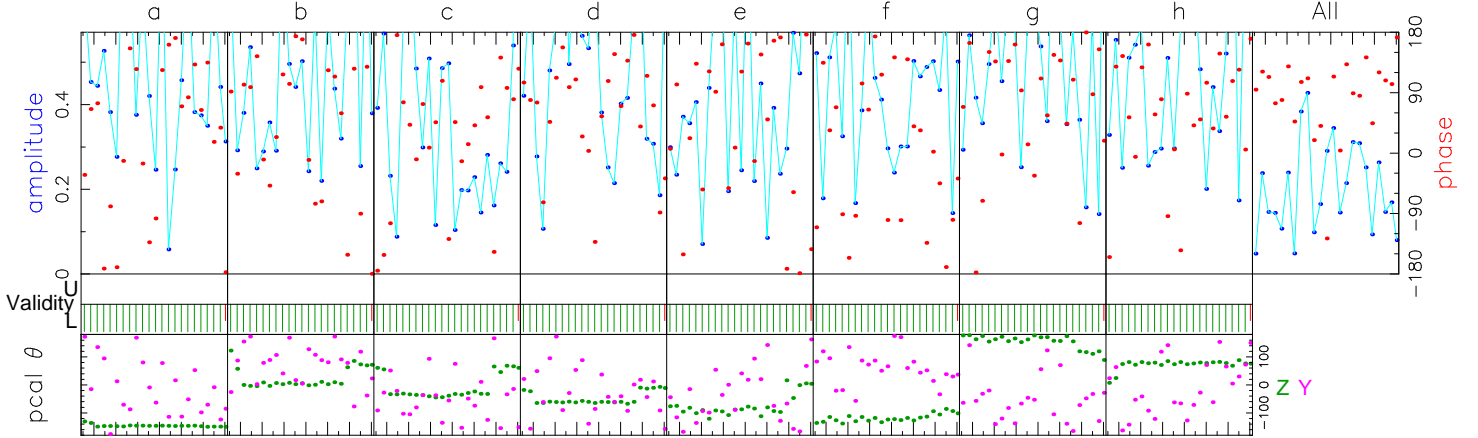
Group delay (usec)(sbd) -1.25908588299E+03 Apriori delay (usec) -1.25908629342E+03 Resid mbdelay (usec) 4.10425E-04 +/- 2.1E-04
 Sband delay (usec) -1.25908459592E+03 Apriori clock (usec) -2.7469733E+00 Resid sbdelay (usec) 1.69750E-03 +/- 1.7E-03
 Phase delay (usec) -1.25908629368E+03 Apriori clockrate (us/s) -4.3089344E-07 Resid phdelay (usec) -2.64481E-07 +/- 3.6E-07
 Delay rate (us/s) -3.29979830521E-01 Apriori rate (us/s) -3.29979806954E-01 Resid rate (us/s) -2.35670E-08 +/- 1.6E-09
 Total phase (deg) -121.6 Apriori accel (us/s/s) 2.30350706664E-05 Resid phase (deg) -8.2 +/- 11.1

ph/seg (deg) 69.4 26.7 Amplitude 0.268 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.0 46.6 Search (2048X32) 0.262 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.6 15.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 40.2 27.5 Inc. seg. avg. 0.389 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 0.270 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY...zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.137.zpwiuc



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

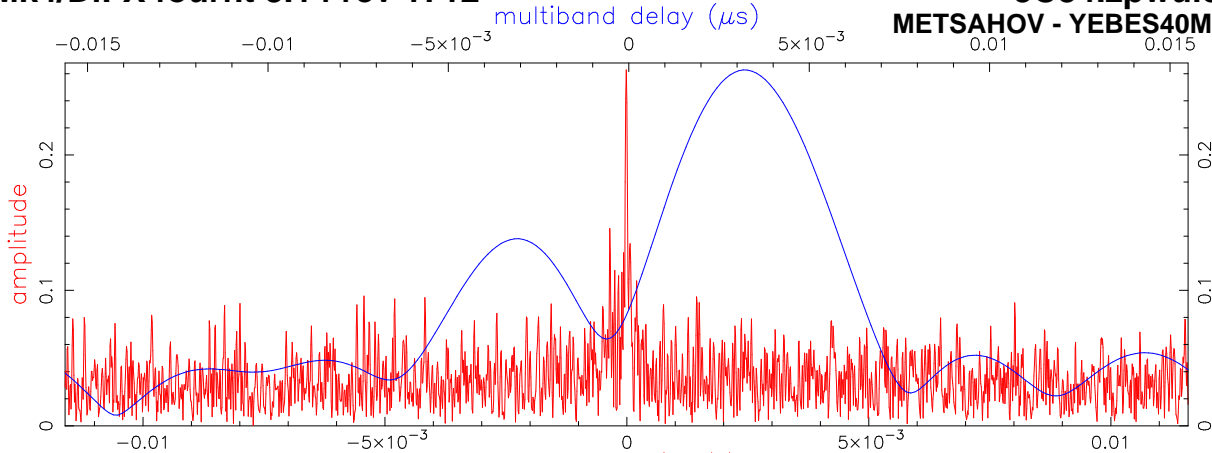


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	81.4	122.3	81.3	96.8	154.8	148.6	113.2	82.8	Phase	105.9	
	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	Ampl.	0.2	
	178.3	154.2	134.0	59.8	9.8	229.7	154.4	152.7	Sbd box	153.5	
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
Y	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Group delay (usec)(sbd)		-1.25889057783E+03		Apriori delay (usec)		-1.25908629342E+03		Resid mbdelay (usec)		8.21559E-03 +/- 3.5E-04	
Sband delay (usec)		-1.25889510242E+03		Apriori clock (usec)		-2.7469733E+00		Resid sbdelay (usec)		1.91191E-01 +/- 2.8E-03	
Phase delay (usec)		-1.25908629000E+03		Apriori clockrate (us/s)		-4.3089344E-07		Resid phdelay (usec)		3.41414E-06 +/- 6.0E-07	
Delay rate (us/s)		-3.29987324186E-01		Apriori rate (us/s)		-3.29979806954E-01		Resid rate (us/s)		-7.51723E-06 +/- 2.6E-09	
Total phase (deg)		-1087.6		Apriori accel (us/s/s)		2.30350706664E-05		Resid phase (deg)		-974.1 +/- 18.7	

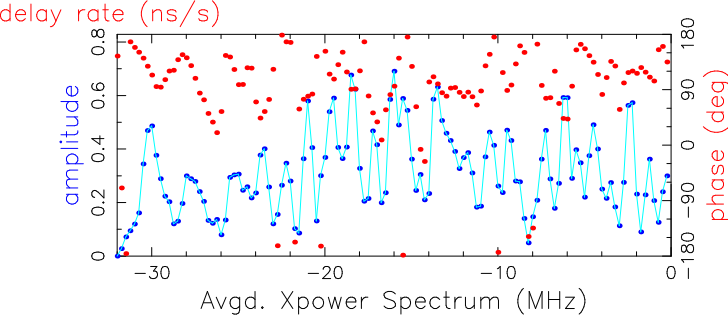
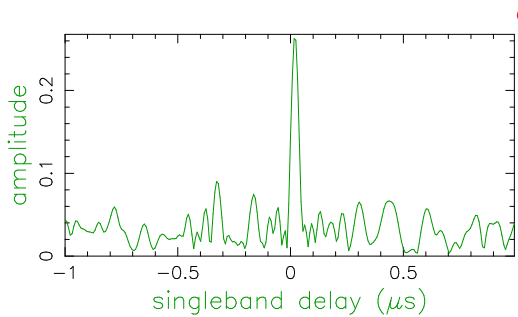
RMS Theor. Amplitude 0.190 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 48.9 44.9 Search (2048X32) 0.153 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.8 78.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 32.6 26.5 Inc. seg. avg. 0.188 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 42.5 46.2 Inc. frq. avg. 0.185 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator

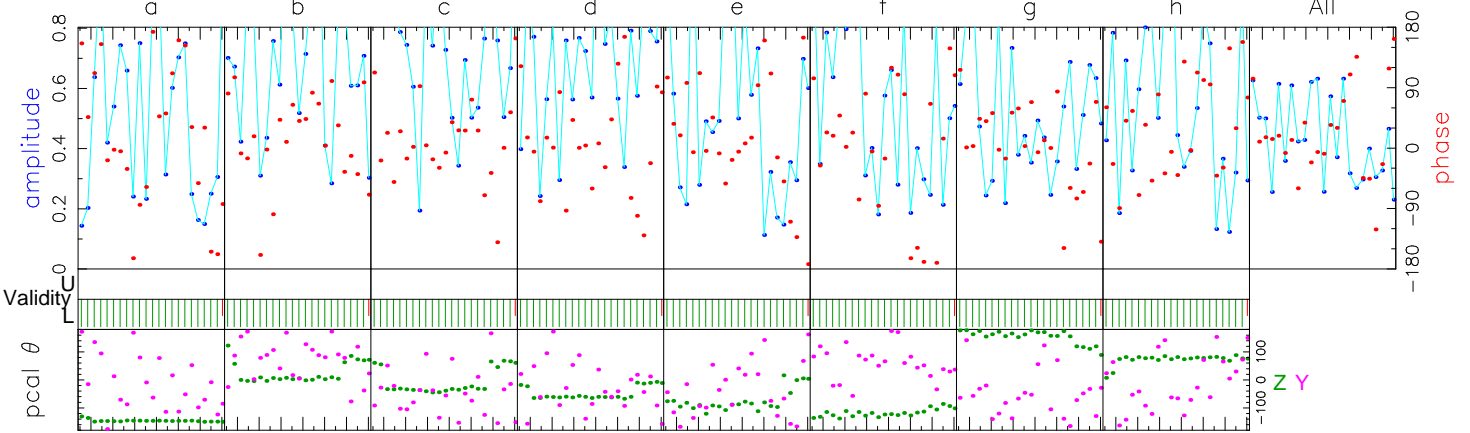
Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY...zpwuic Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.138.zpwuic



Fringe quality 9
 SNR 10.3
 Int time 395.219
 Amp 0.268
 Phase -161.4
 PFD 1.6e-16
 Delays (us)
 SBD 0.019212
 MBD 0.003221
 Fringe rate (Hz)
 -0.001463
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113729
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

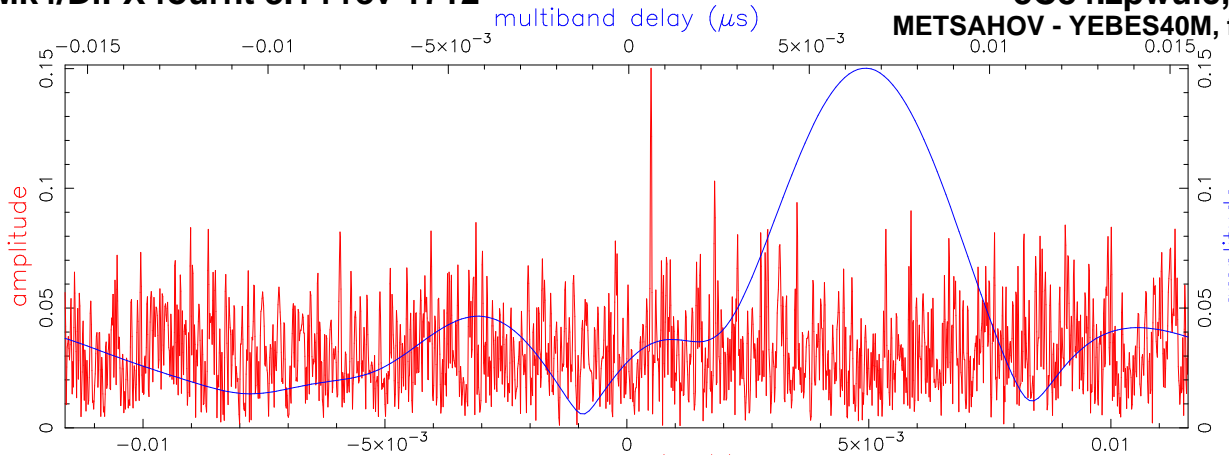


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	114.4	31.0	1.1	-0.6	16.7	51.8	11.7	24.0	Phase	18.6
	0.1	0.4	0.4	0.3	0.2	0.3	0.3	0.2	Ampl.	0.3
	89.1	131.1	131.9	131.7	132.6	130.3	131.1	131.2	Sbd box	131.5
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

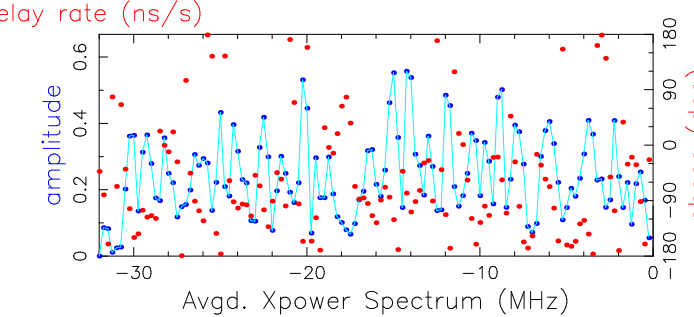
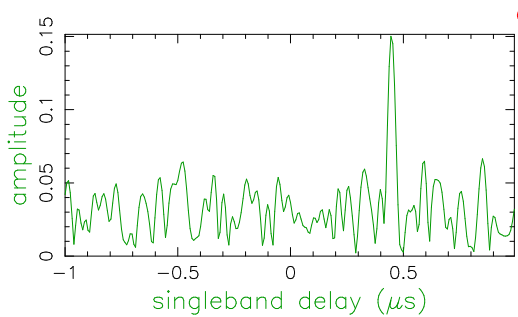
Group delay (usec)(sbd) -1.25905182199E+03 Apriori delay (usec) -1.25908629342E+03 Resid mbdelay (usec) 3.22142E-03 +/- 2.1E-04
 Sband delay (usec) -1.25906708142E+03 Apriori clock (usec) -2.7469733E+00 Resid sbdelay (usec) 1.92120E-02 +/- 1.7E-03
 Phase delay (usec) -1.25908629282E+03 Apriori clockrate (us/s) -4.3089344E-07 Resid phdelay (usec) 5.98358E-07 +/- 3.6E-07
 Delay rate (us/s) -3.29979823933E-01 Apriori rate (us/s) -3.29979806954E-01 Resid rate (us/s) -1.69796E-08 +/- 1.6E-09
 Total phase (deg) -274.9 Apriori accel (us/s/s) 2.30350706664E-05 Resid phase (deg) -161.4 +/- 11.1

RMS Theor. Amplitude 0.268 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 64.5 26.7 Search (2048X32) 0.258 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 82.2 46.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 43.2 15.7 Inc. seg. avg. 0.397 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 45.1 27.5 Inc. frq. avg. 0.271 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY...zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.139.zpwiuc

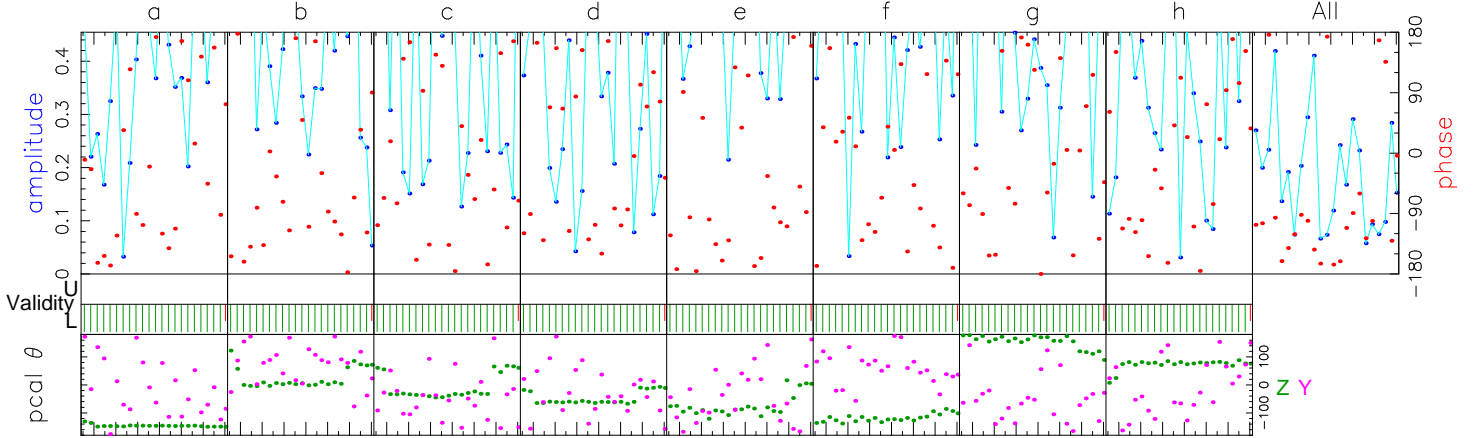


Fringe quality 0
 SNR 5.8
 Int time 395.219
 Amp 0.152
 Phase -2642.6
 PFD 5.2e-01
 Delays (us)
 SBD 0.447690
 MBD 0.006509
 Fringe rate (Hz) 0.042890
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build 2017:207:150845
 2017:208:113731
 2017:170:130423
 RA & Dec (J2000) 03h19m48.1601s +41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

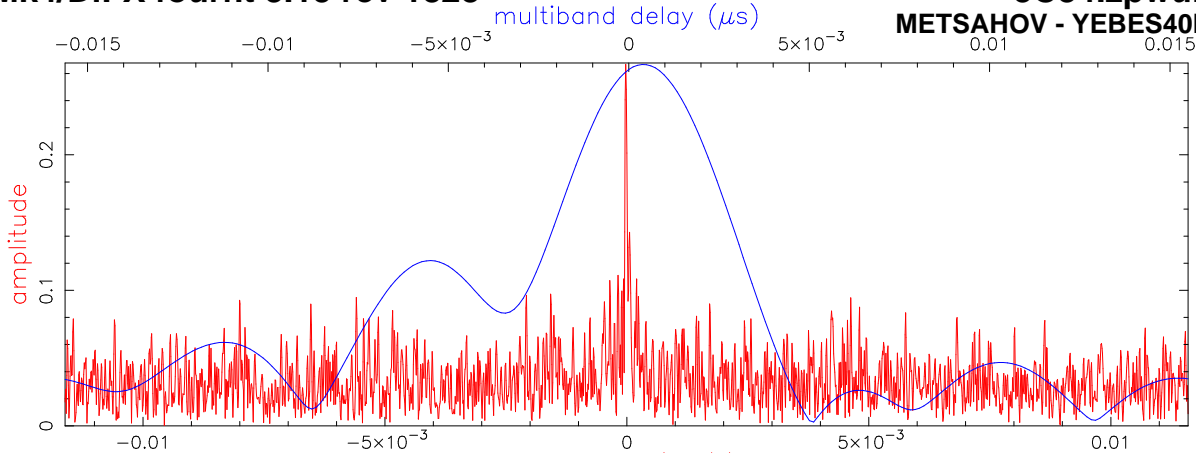


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-125.3	-119.8	-114.1	-133.4	-137.8	-99.0	-94.7	-157.6	Phase	-122.6
0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
246.7	186.0	110.8	71.1	187.4	125.8	85.8	196.7	Sbd box	186.3
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Tracks	
Group delay (usec)(sbd)	-1.25864228432E+03	Apriori delay (usec)		-1.25908629342E+03	Resid mbdelay (usec)		6.50909E-03	+/-	3.7E-04
Sband delay (usec)	-1.25863860392E+03	Apriori clock (usec)		-2.7469733E+00	Resid sbdelay (usec)		4.47690E-01	+/-	3.0E-03
Phase delay (usec)	-1.25908629737E+03	Apriori clockrate (us/s)		-4.3089344E-07	Resid phdelay (usec)		-3.95316E-06	+/-	6.3E-07
Delay rate (us/s)	-3.29979309042E-01	Apriori rate (us/s)		-3.29979806954E-01	Resid rate (us/s)		4.97912E-07	+/-	2.8E-09
Total phase (deg)	-2756.0	Apriori accel (us/s/s)		2.30350706664E-05	Resid phase (deg)		-2642.6	+/-	19.7

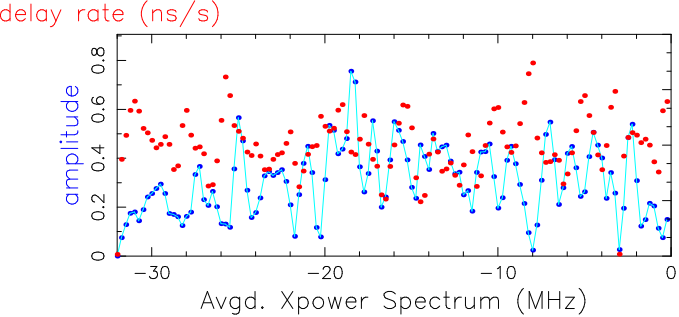
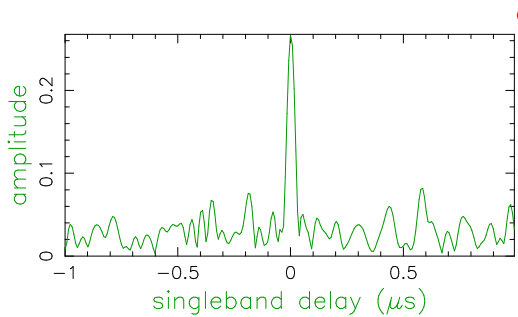
RMS Theor. Amplitude 0.152 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 45.7 47.2 Search (2048X32) 0.148 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.5 82.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 22.3 27.8 Inc. seg. avg. 0.143 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 47.4 48.6 Inc. frq. avg. 0.139 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY...zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.140.zpwiuc

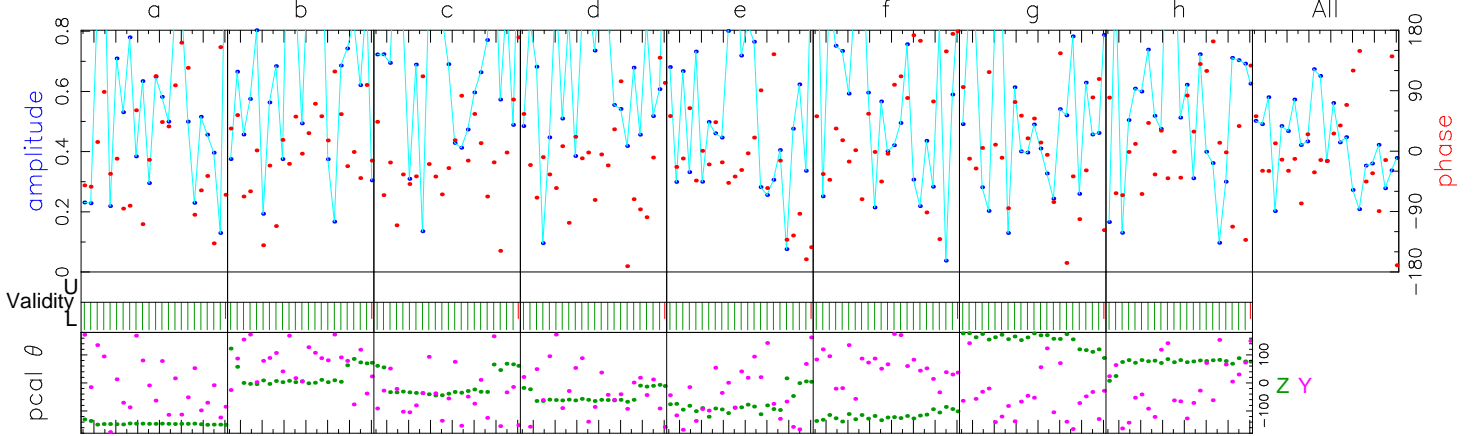


Fringe quality 9
SNR 10.3
Int time 395.219
Amp 0.268
Phase -8.2
PFD 1.6e-16
Delays (us)
SBD 0.001698
MBD 0.000410
Fringe rate (Hz)
-0.002030
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



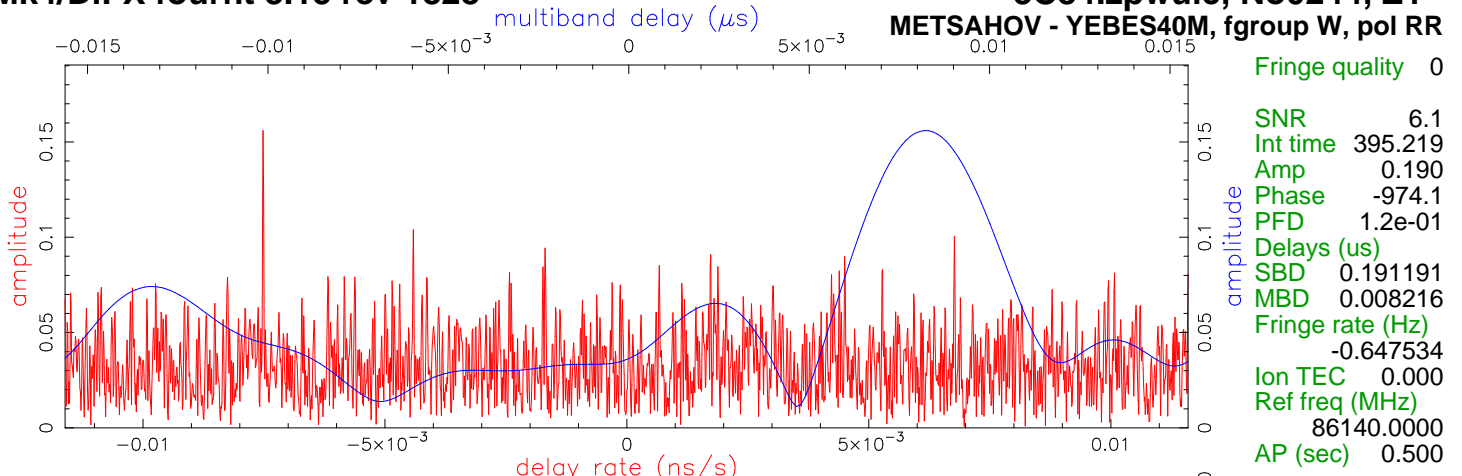
Exp. c171a
Exper # 16383
Yr:day 2017:089
Start 141524.50
Stop 142200.00
FRT 141830.00
Corr/FF/build
2017:207:150845
2017:214:152400
2017:188:152524
RA & Dec (J2000)
03h19m48.1601s
+41°30'42.104"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.25908588299E+03								4.10425E-04	+/- 2.1E-04
Sband delay (usec)	-1.25908459592E+03								1.69750E-03	+/- 1.7E-03
Phase delay (usec)	-1.25908629368E+03								-2.64481E-07	+/- 3.6E-07
Delay rate (us/s)	-3.29979830521E-01								-2.35670E-08	+/- 1.6E-09
Total phase (deg)			-121.6						-8.2	+/- 11.1
				Apriori delay (usec)	-1.25908629342E+03				Resid mbdelay (usec)	
				Apriori clock (usec)	-2.7469733E+00				Resid sbdelay (usec)	
				Apriori clockrate (us/s)	-4.3089344E-07				Resid phdelay (usec)	
				Apriori rate (us/s)	-3.29979806954E-01				Resid rate (us/s)	
				Apriori accel (us/s/s)	2.30350706664E-05				Resid phase (deg)	
ph/seg (deg)	69.4	26.7		Search (2048X32)	0.262				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.0	46.6		Interp.	0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	19.6	15.7		Inc. seg. avg.	0.389				Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	40.2	27.5		Inc. frq. avg.	0.270				Sample rate(MSamp/s): 64	mb window (us) -0.016 0.016
									Data rate(Mb/s): 1024	dr window (ns/s) -0.012 0.012
									nlags: 128	t_cohere infinite
										ion window (TEC) 0.00 0.00

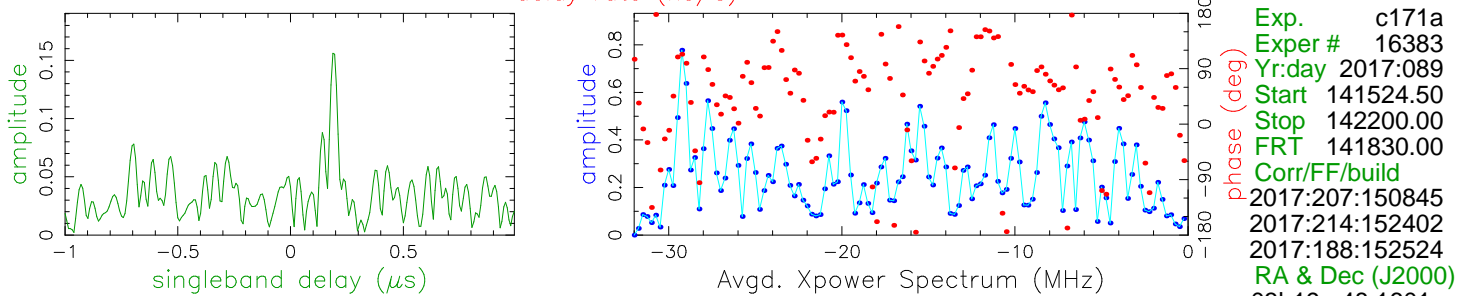
Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.281.zpwiuc



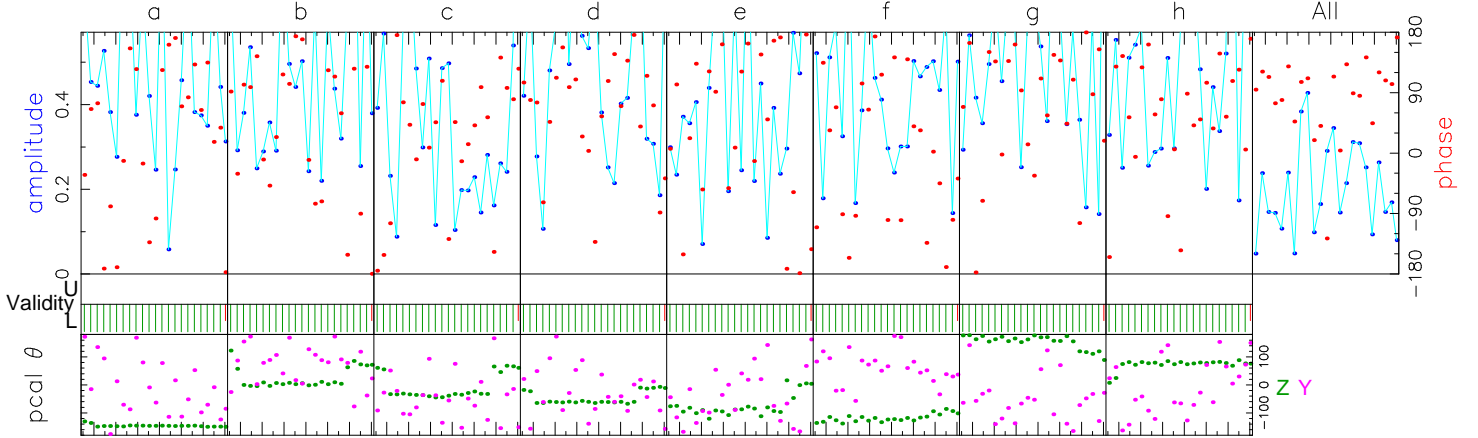
Fringe quality 0

SNR 6.1
 Int time 395.219
 Amp 0.190
 Phase -974.1
 PFD 1.2e-01
 Delays (us)
 SBD 0.191191
 MBD 0.008216
 Fringe rate (Hz)
 -0.647534
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152402
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

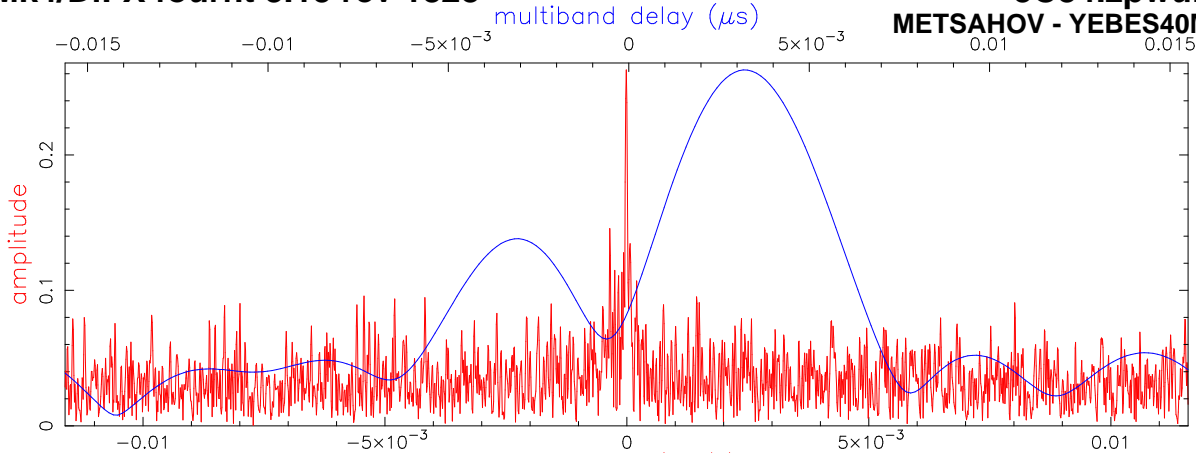


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	81.4	122.3	81.3	96.8	154.8	148.6	113.2	82.8	Phase	105.9
	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	Ampl.	0.2
	178.3	154.2	134.0	59.8	9.8	229.7	154.4	152.7	Sbd box	153.5
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.25889057783E+03		Apriori delay (usec)		-1.25908629342E+03		Resid mbdelay (usec)		8.21559E-03	+/- 3.5E-04
Sband delay (usec)	-1.25889510242E+03		Apriori clock (usec)		-2.7469733E+00		Resid sbdelay (usec)		1.91191E-01	+/- 2.8E-03
Phase delay (usec)	-1.25908629000E+03		Apriori clockrate (us/s)		-4.3089344E-07		Resid phdelay (usec)		3.41414E-06	+/- 6.0E-07
Delay rate (us/s)	-3.29987324186E-01		Apriori rate (us/s)		-3.29979806954E-01		Resid rate (us/s)		-7.51723E-06	+/- 2.6E-09
Total phase (deg)	-1087.6		Apriori accel (us/s/s)		2.30350706664E-05		Resid phase (deg)		-974.1	+/- 18.7

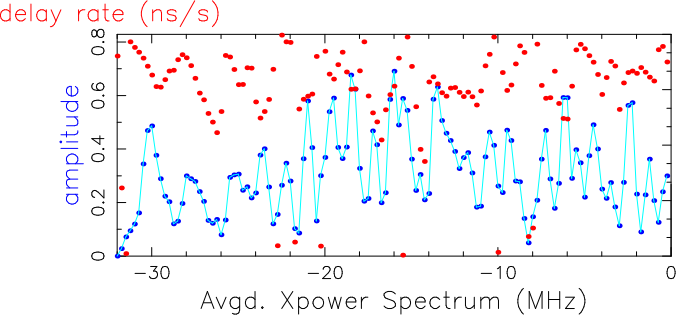
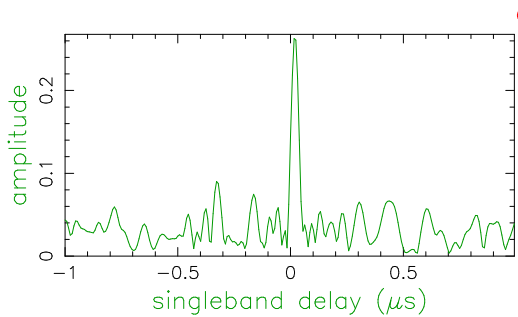
RMS Theor. Amplitude 0.190 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 48.9 44.9 Search (2048X32) 0.153 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.8 78.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 32.6 26.5 Inc. seg. avg. 0.188 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 42.5 46.2 Inc. frq. avg. 0.185 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator

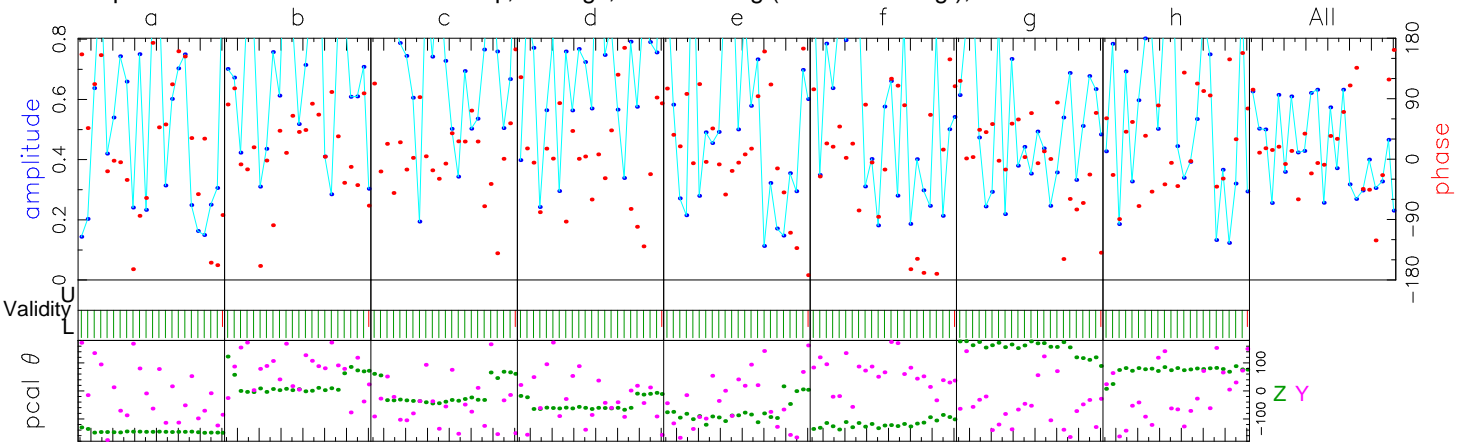
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.282.zpwiuc



Fringe quality 9
 SNR 10.3
 Int time 395.219
 Amp 0.268
 Phase -161.4
 PFD 1.6e-16
 Delays (us)
 SBD 0.019212
 MBD 0.003221
 Fringe rate (Hz)
 -0.001463
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152404
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

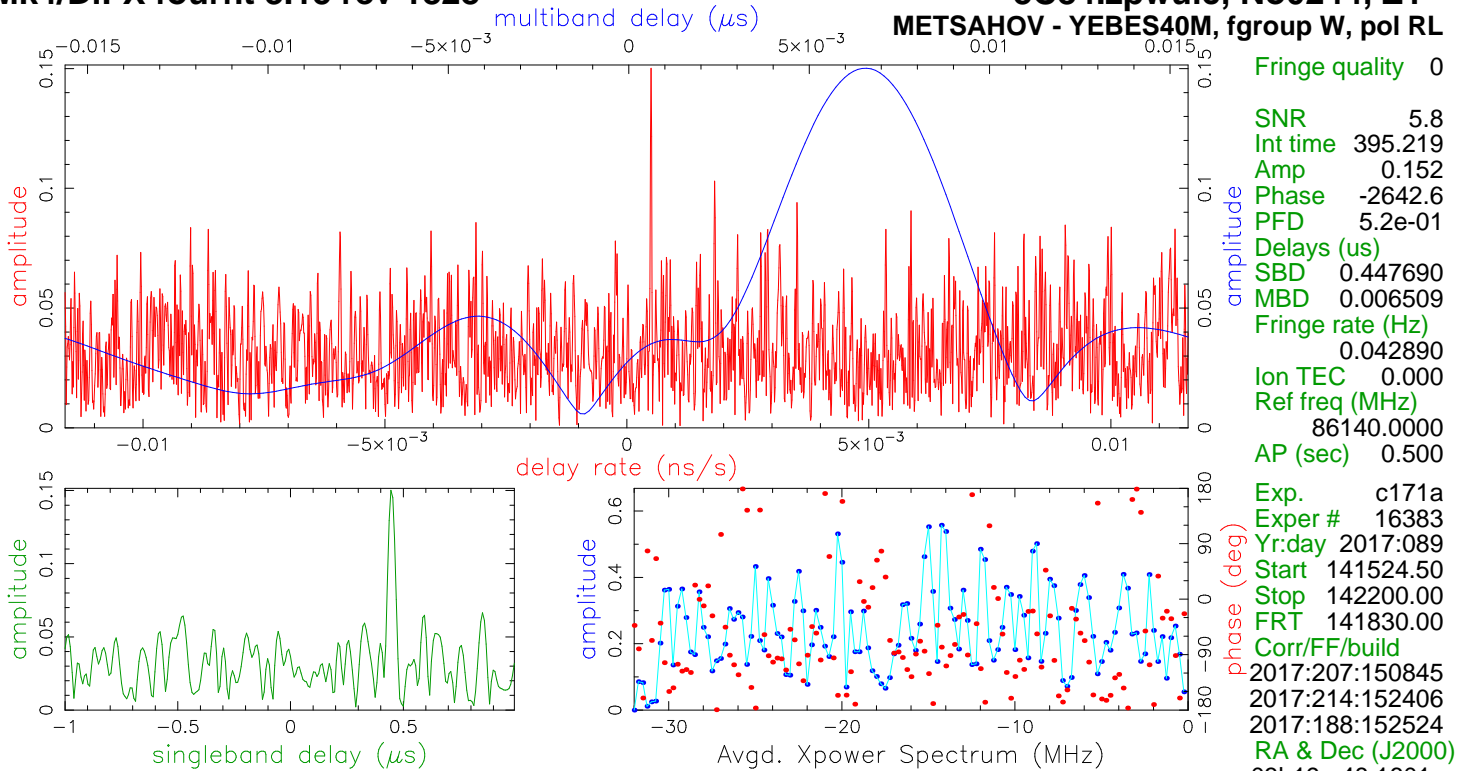


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	114.4	31.0	1.1	-0.6	16.7	51.8	11.7	24.0	Phase	18.6
	0.1	0.4	0.4	0.3	0.2	0.2	0.3	0.2	Ampl.	0.3
	89.1	131.1	131.9	131.7	132.6	130.3	131.1	131.2	Sbd box	131.5
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	

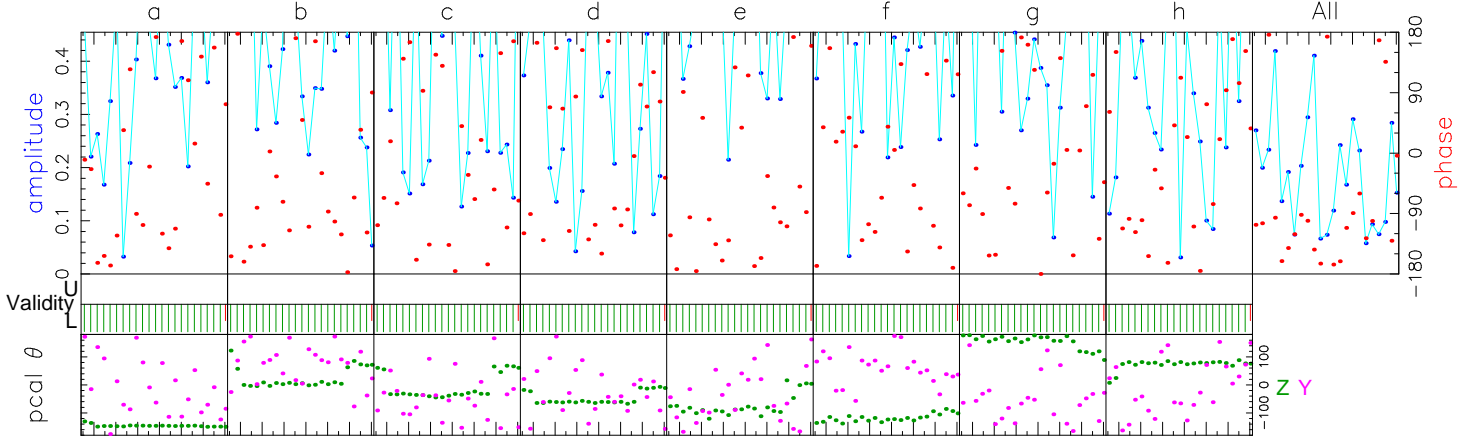
Group delay (usec)(sbd) -1.25905182199E+03 Apriori delay (usec) -1.25908629342E+03 Resid mbdelay (usec) 3.22142E-03 +/- 2.1E-04
 Sband delay (usec) -1.25906708142E+03 Apriori clock (usec) -2.7469733E+00 Resid sbdelay (usec) 1.92120E-02 +/- 1.7E-03
 Phase delay (usec) -1.25908629282E+03 Apriori clockrate (us/s) -4.3089344E-07 Resid phdelay (usec) 5.98358E-07 +/- 3.6E-07
 Delay rate (us/s) -3.29979823933E-01 Apriori rate (us/s) -3.29979806954E-01 Resid rate (us/s) -1.69796E-08 +/- 1.6E-09
 Total phase (deg) -274.9 Apriori accel (us/s/s) 2.30350706664E-05 Resid phase (deg) -161.4 +/- 11.1

RMS Theor. Amplitude 0.268 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 64.5 26.7 Search (2048X32) 0.258 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 82.2 46.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 43.2 15.7 Inc. seg. avg. 0.397 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 45.1 27.5 Inc. frq. avg. 0.271 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.283.zpwiuc



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

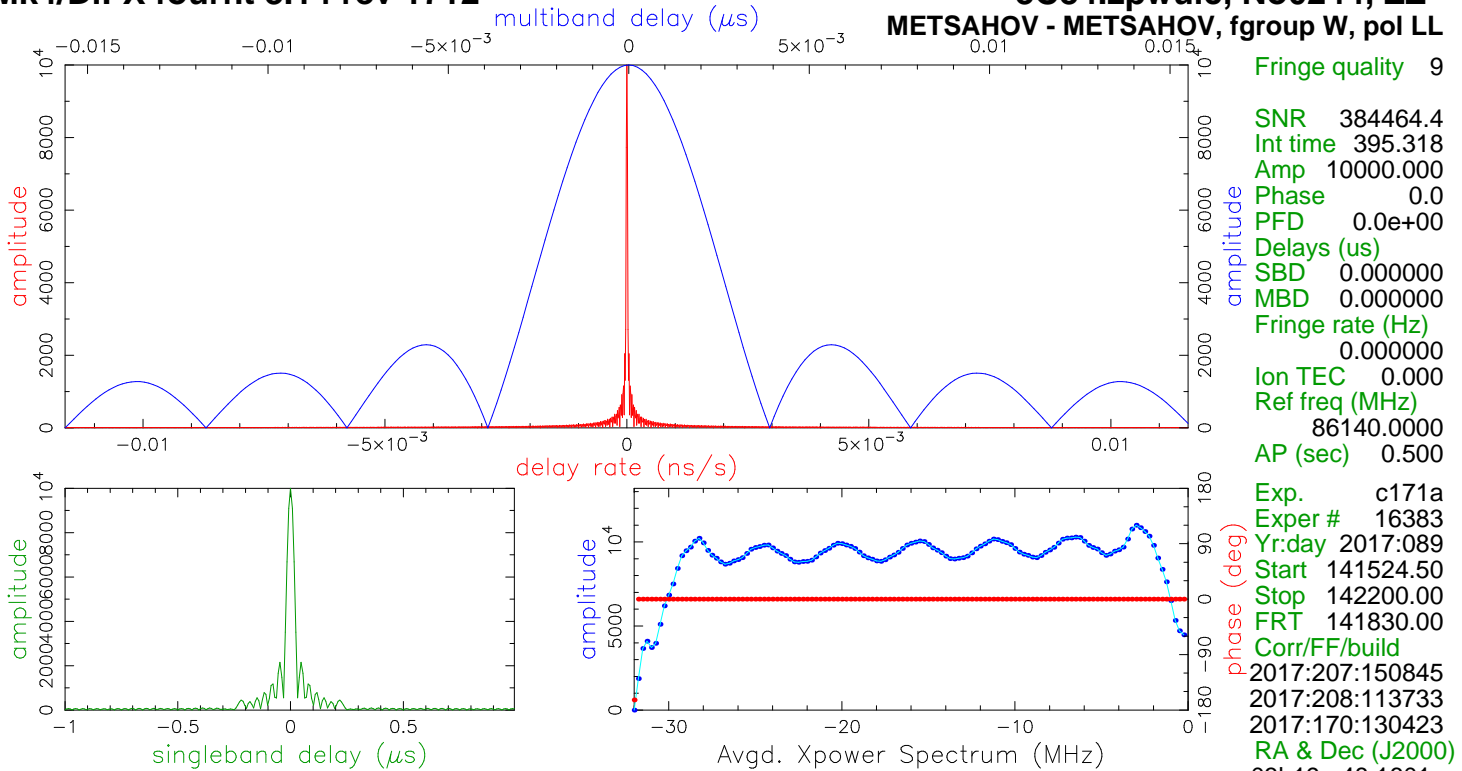


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-125.3	-119.8	-114.1	-133.4	-137.8	-99.0	-94.7	-157.6	Phase	-122.6
	0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	246.7	186.0	110.8	71.1	187.4	125.8	85.8	196.7	Sbd box	186.3
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.25864228432E+03		Apriori delay (usec)		-1.25908629342E+03		Resid mbdelay (usec)		6.50909E-03	+/- 3.7E-04
Sband delay (usec)	-1.25863860392E+03		Apriori clock (usec)		-2.7469733E+00		Resid sbdelay (usec)		4.47690E-01	+/- 3.0E-03
Phase delay (usec)	-1.25908629737E+03		Apriori clockrate (us/s)		-4.3089344E-07		Resid phdelay (usec)		-3.95316E-06	+/- 6.3E-07
Delay rate (us/s)	-3.29979309042E-01		Apriori rate (us/s)		-3.29979806954E-01		Resid rate (us/s)		4.97912E-07	+/- 2.8E-09
Total phase (deg)	-2756.0		Apriori accel (us/s/s)		2.30350706664E-05		Resid phase (deg)		-2642.6	+/- 19.7

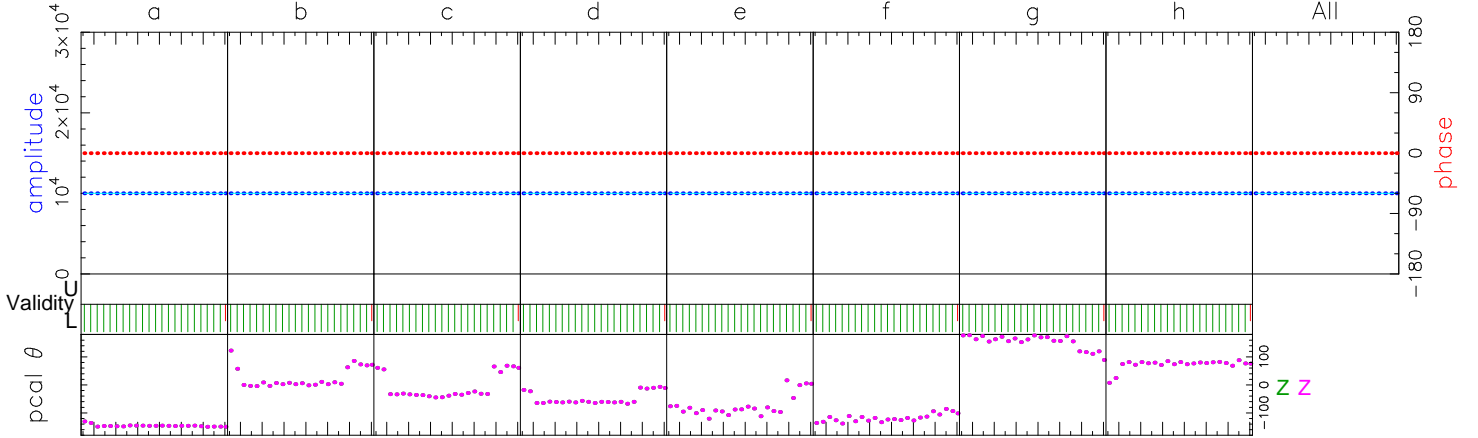
	RMS	Theor.	Amplitude	0.152 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	45.7	47.2	Search (2048X32)	0.148	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	73.5	82.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	22.3	27.8	Inc. seg. avg.	0.143	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	47.4	48.6	Inc. frq. avg.	0.139	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

Z: az 214.7 el 69.0 pa 21.9 Y: az 79.4 el 81.2 pa -92.4 u,v (fr/asec) 2568.120 3023.945 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZY.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZY.W.284.zpwiuc



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	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
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	5.6E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	4.5E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	9.6E-12		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	4.2E-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 Theor. Amplitude 10000.000 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

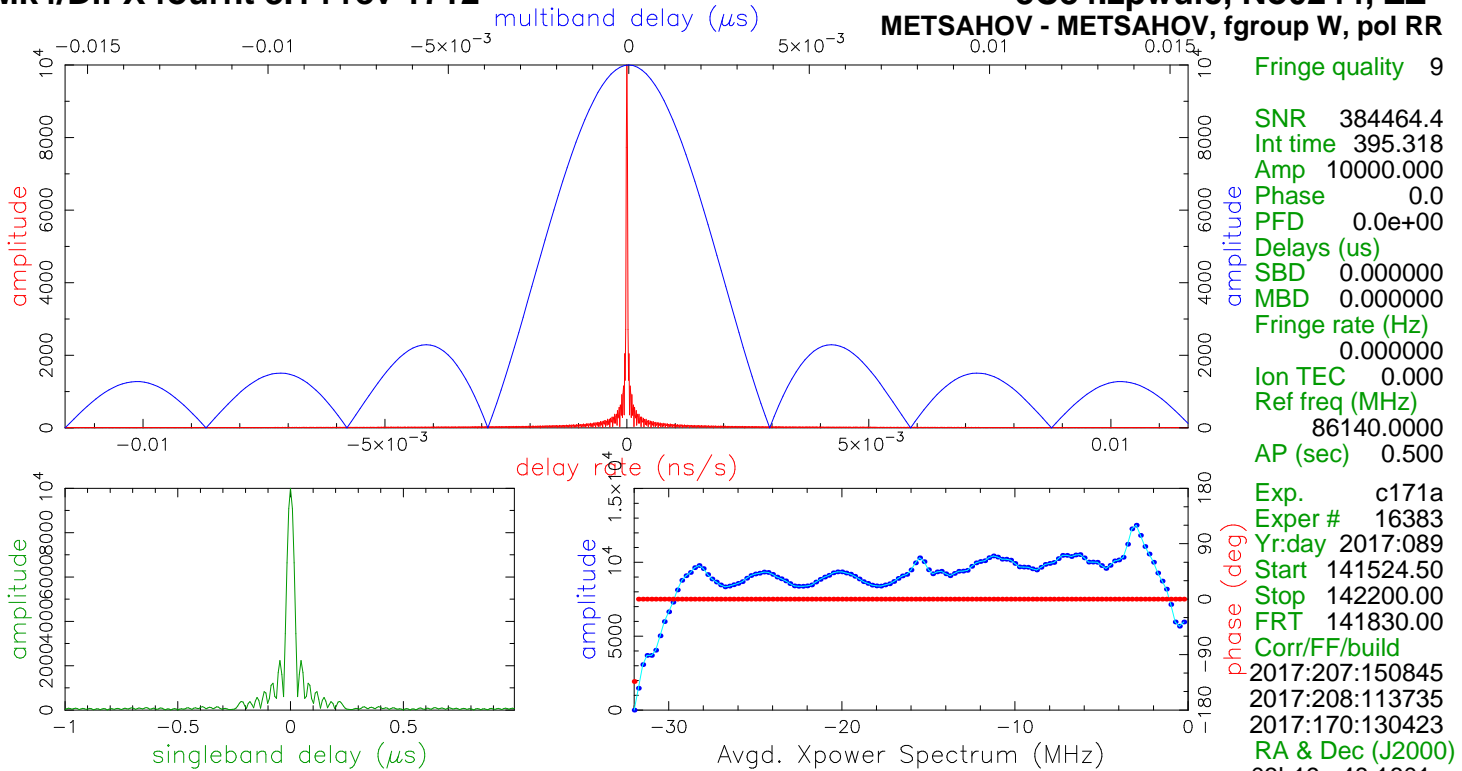
amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

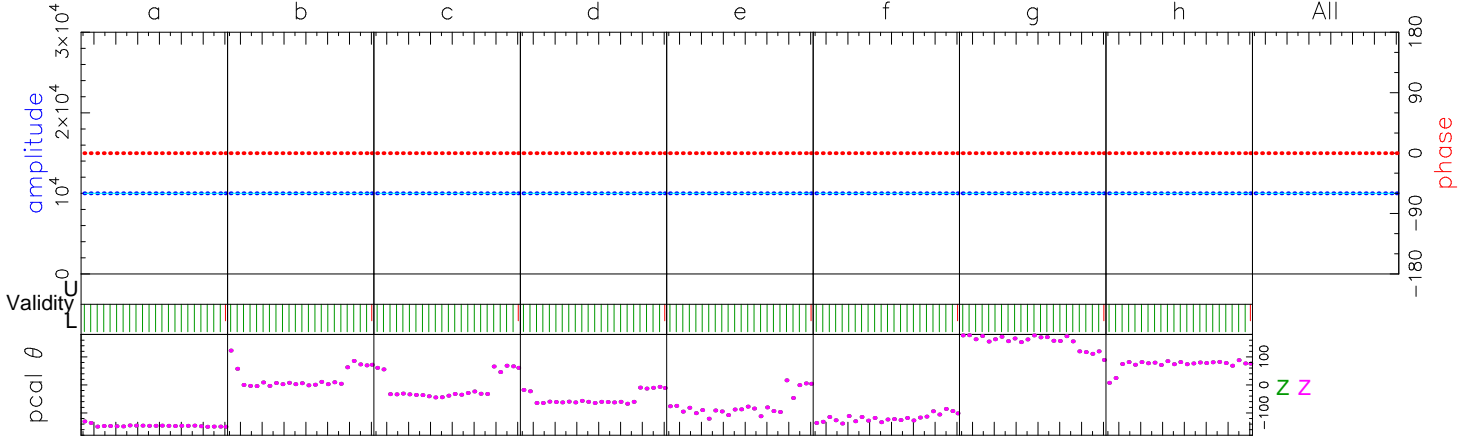
amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ.zpwuic Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.141.zpwuic



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	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
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	5.6E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	4.5E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	9.6E-12		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	4.2E-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 10000.000 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

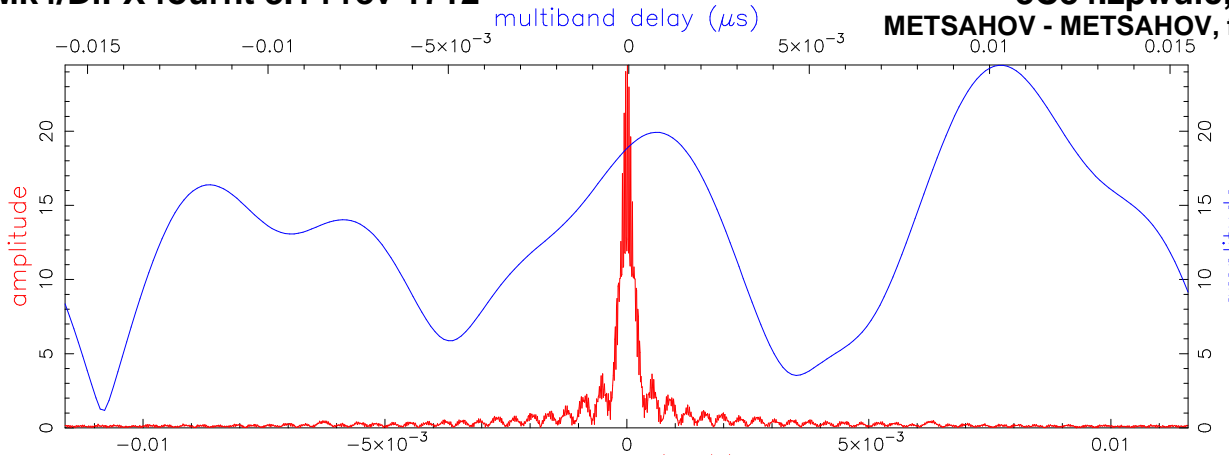
amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

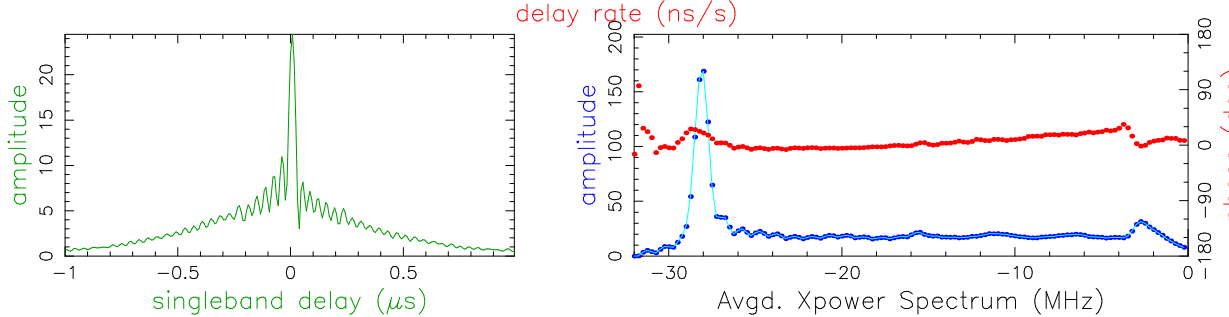
Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ..zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.142.zpwiuc



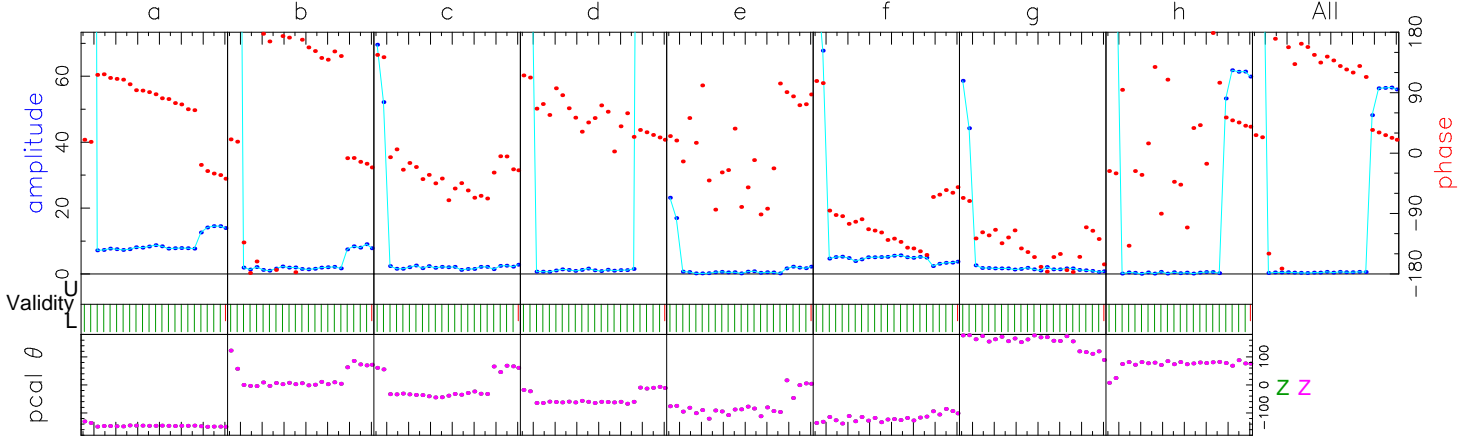
Fringe quality 1

SNR 940.6
 Int time 395.318
 Amp 24.465
 Phase 26.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.007217
 MBD 0.010303
 Fringe rate (Hz) 0.000612
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113736
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



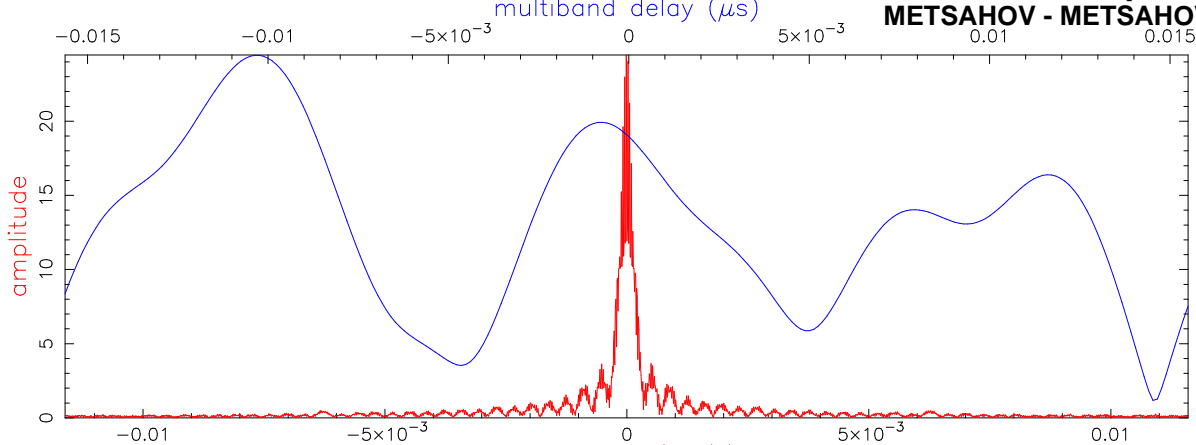
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	20.8	18.4	143.5	38.4	27.0	134.5	-82.8	9.1	Phase	26.9
	75.9	29.6	3.6	76.7	2.1	4.6	5.1	19.2	Ampl.	27.1
	130.4	130.2	133.1	130.1	133.6	128.1	134.5	131.1	Sbd box	129.9
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	1.03032251649E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.03032E-02	+/-	2.3E-06
Sband delay (usec)	7.21700000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	7.21700E-03	+/-	1.8E-05
Phase delay (usec)	8.66033972065E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.66034E-07	+/-	3.9E-09
Delay rate (us/s)	7.10761550964E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	7.10762E-09	+/-	1.7E-11
Total phase (deg)	26.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	26.9	+/-	0.1

ph/seg (deg)	103.1	RMS	103.1	Theor.	0.3	Amplitude	24.465 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	187.6		0.5	Search (2048X32)	0.000	Apriori clock	23.366	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	79.4		0.2	Interp.	0.000	Apriori clockrate	0.0000000E+00	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	122.0		0.3	Inc. seg. avg.	24.997	Apriori rate	0.00000000000E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
				Inc. frq. avg.	27.099	Apriori accel	0.00000000000E+00	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
								nlags:	128	ion window (TEC)	0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

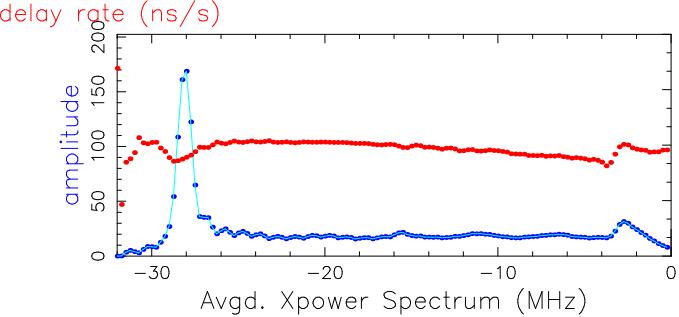
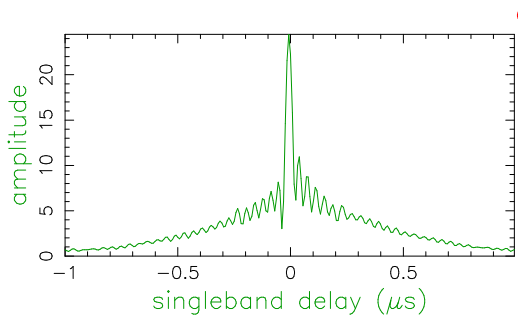
Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ..zpwiic Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.143.zpwiic



Fringe quality 1

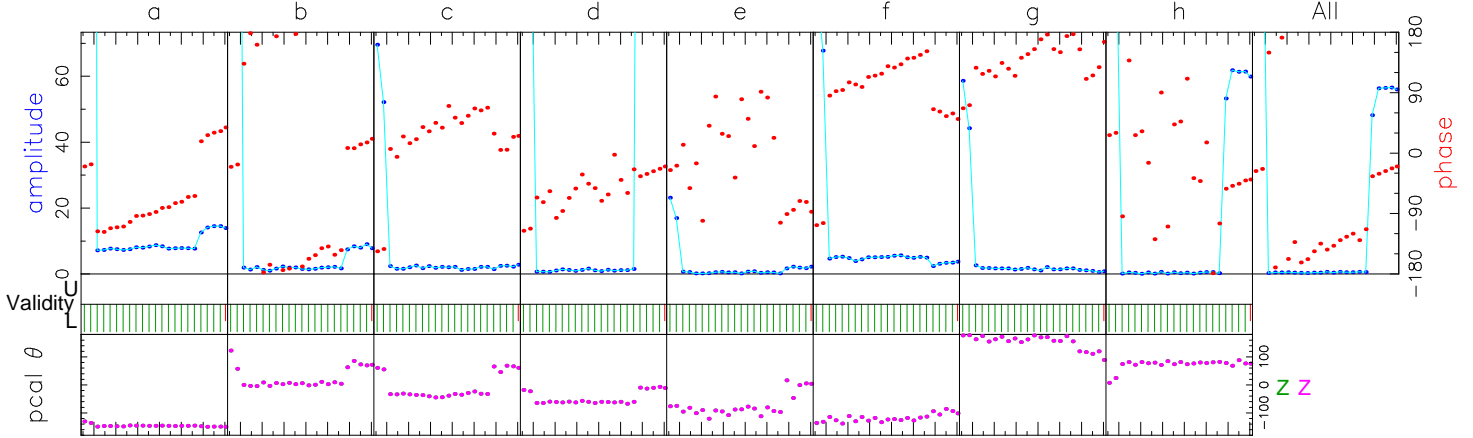
SNR 940.6
 Int time 395.318
 Amp 24.465
 Phase -26.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.007217
 MBD -0.010303
 Fringe rate (Hz)
 -0.000612
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:208:113738
 2017:170:130423
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



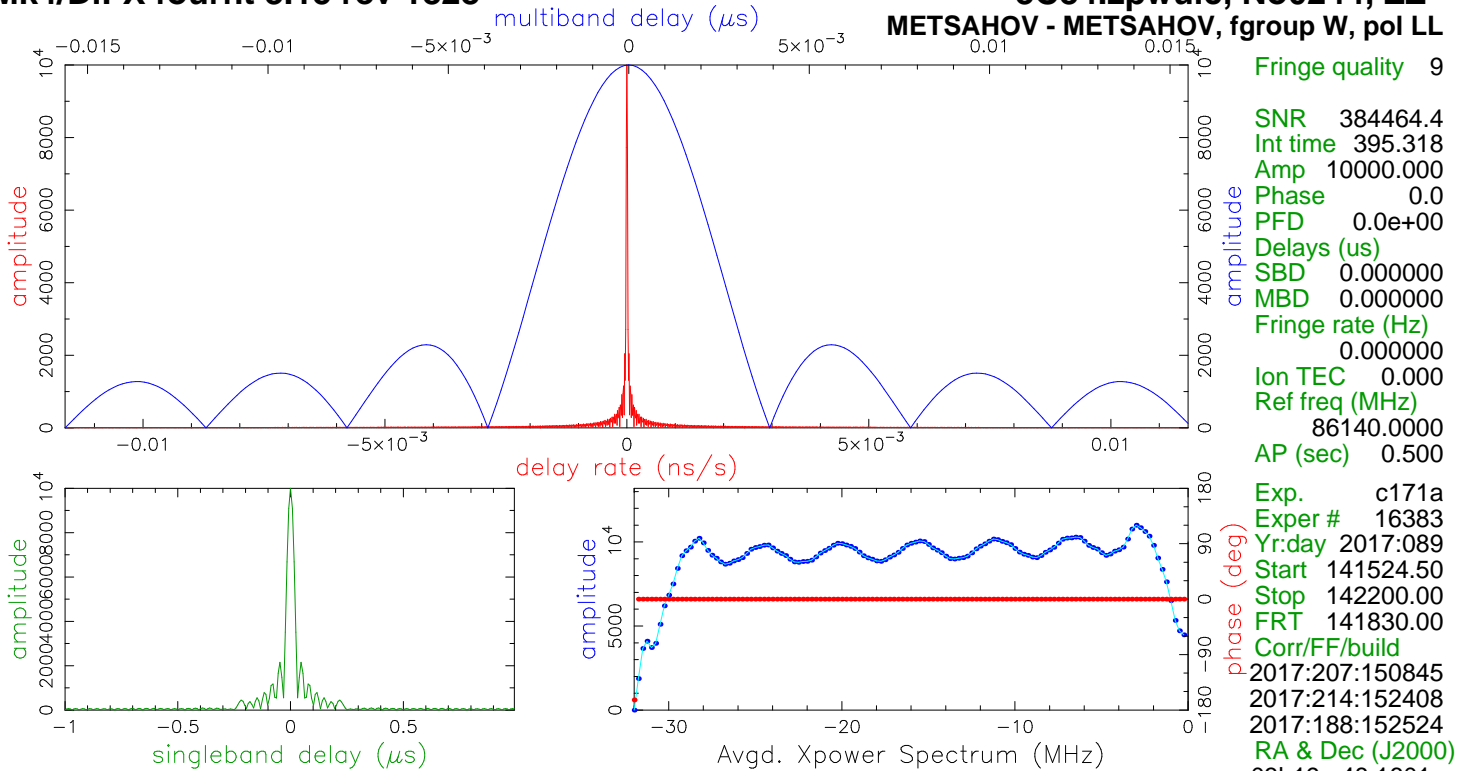
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

Group delay (usec)(sbd)	-1.03032251649E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-1.03032E-02	+/-	2.3E-06
Sband delay (usec)	-7.21700000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-7.21700E-03	+/-	1.8E-05
Phase delay (usec)	-8.66033973594E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-8.66034E-07	+/-	3.9E-09
Delay rate (us/s)	-7.10761550964E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-7.10762E-09	+/-	1.7E-11
Total phase (deg)	-26.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-26.9	+/-	0.1

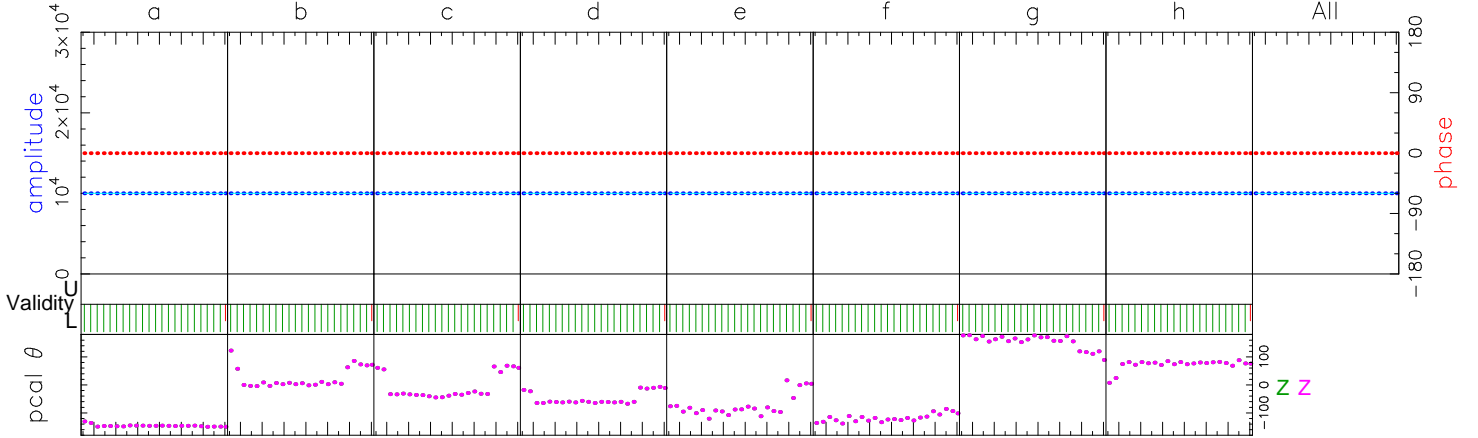
ph/seg (deg)	103.1	0.3	RMS	24.465 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	187.6	0.5	Theor.	23.366	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	79.4	0.2	Search (2048X32)	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
amp/frq (%)	122.0	0.3	Interp.	24.997	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.012 0.012	
			Inc. seg. avg.	27.099	Data rate(Mb/s):	1024	ion window (TEC)	0.00 0.00	
			Inc. frq. avg.		nlags:	128	t_cohere	infinite	

Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ..zpwuic Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.144.zpwuic



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

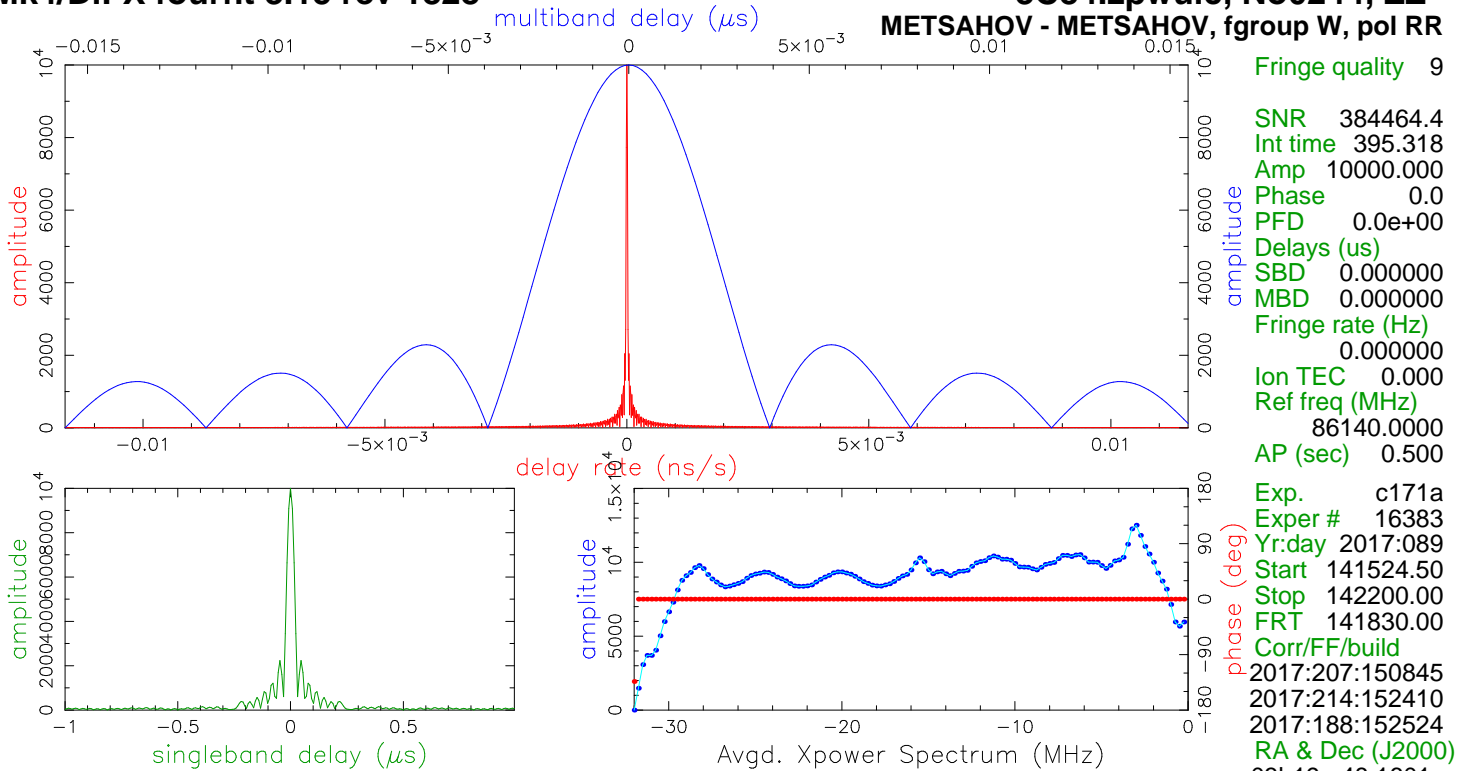


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Tracks	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Tracks	

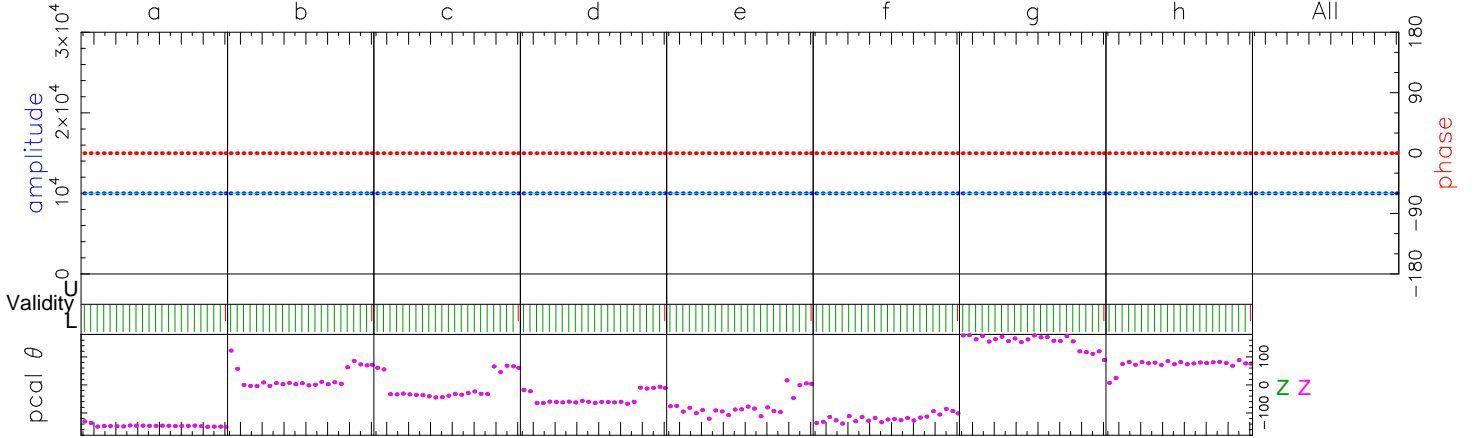
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	5.6E-09	
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	4.5E-08	
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	9.6E-12	
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.2E-14	
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0	
RMS	Theor.	Amplitude	10000.000 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
ph/seg (deg)	0.0	Search (2048X32)	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.012 0.012	
amp/frq (%)	0.0	Inc. frq. avg.	10000.000	Data rate(Mb/s):	1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ..zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.285.zpwiuc



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	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
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	5.6E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	4.5E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	9.6E-12		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	4.2E-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 10000.000 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

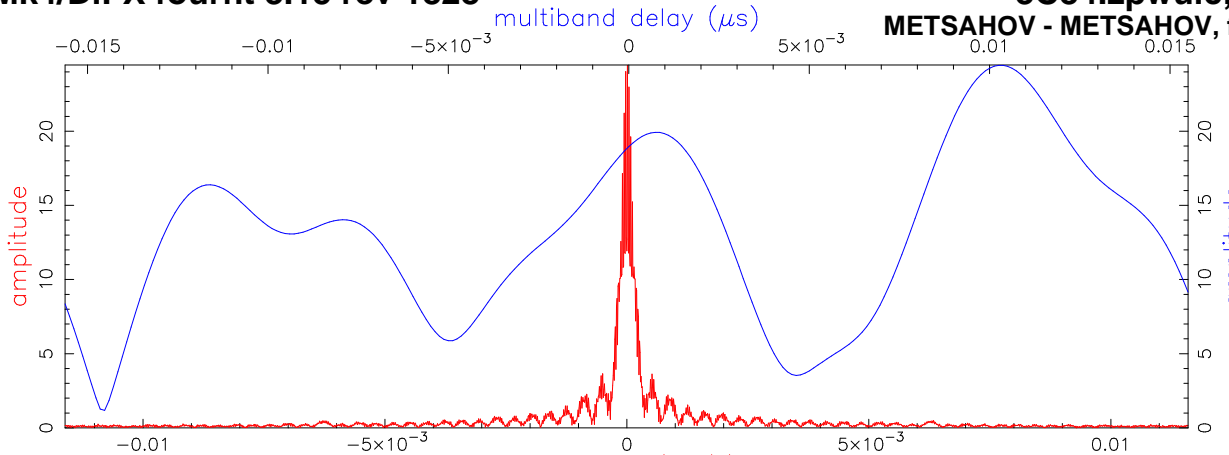
amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

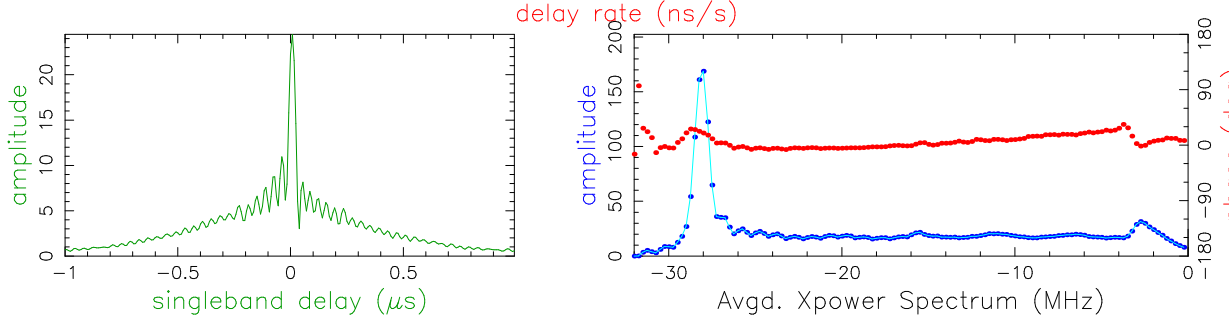
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ..zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.286.zpwiuc



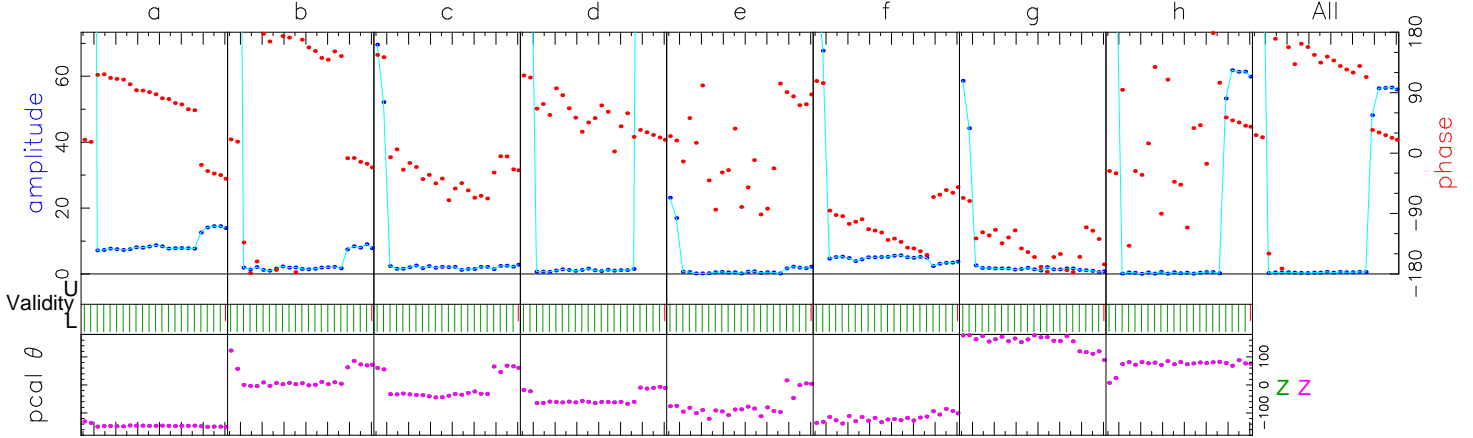
Fringe quality 1

SNR 940.6
 Int time 395.318
 Amp 24.465
 Phase 26.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.007217
 MBD 0.010303
 Fringe rate (Hz) 0.000612
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
 Stop 142200.00
 FRT 141830.00
 Corr/FF/build
 2017:207:150845
 2017:214:152412
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec

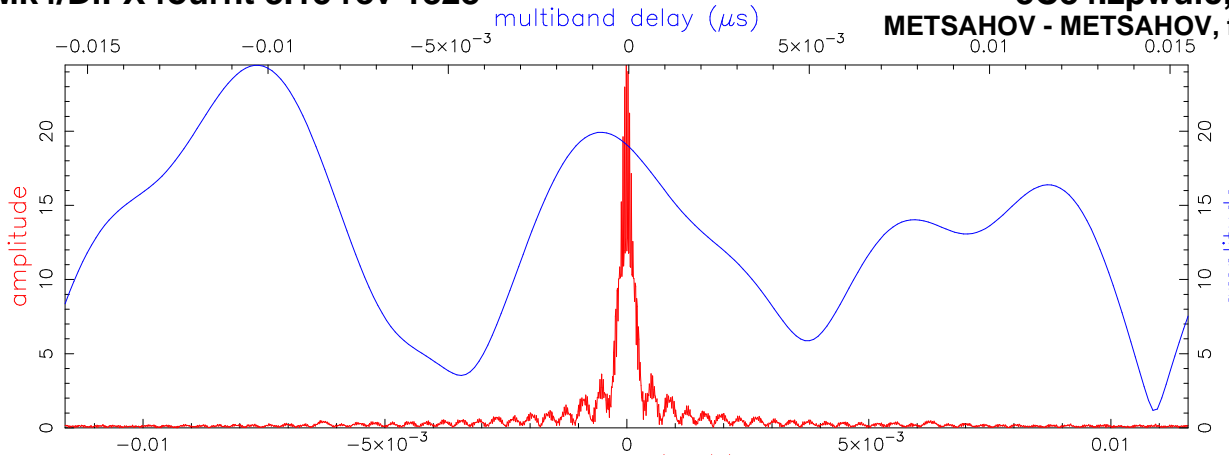


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	Phase	26.9
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	27.1
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	129.9
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	ManI PC	
Z									PC amp	

Group delay (usec)(sbd)	1.03032251649E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.03032E-02	+/-	2.3E-06
Sband delay (usec)	7.21700000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	7.21700E-03	+/-	1.8E-05
Phase delay (usec)	8.66033972065E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.66034E-07	+/-	3.9E-09
Delay rate (us/s)	7.10761550964E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	7.10762E-09	+/-	1.7E-11
Total phase (deg)	26.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	26.9	+/-	0.1

ph/seg (deg) 103.1 0.3 Theor. Amplitude 24.465 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 187.6 0.5 Search (2048X32) 23.366 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 79.4 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 122.0 0.3 Inc. seg. avg. 24.997 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 27.099 ion window (TEC) 0.00 0.00

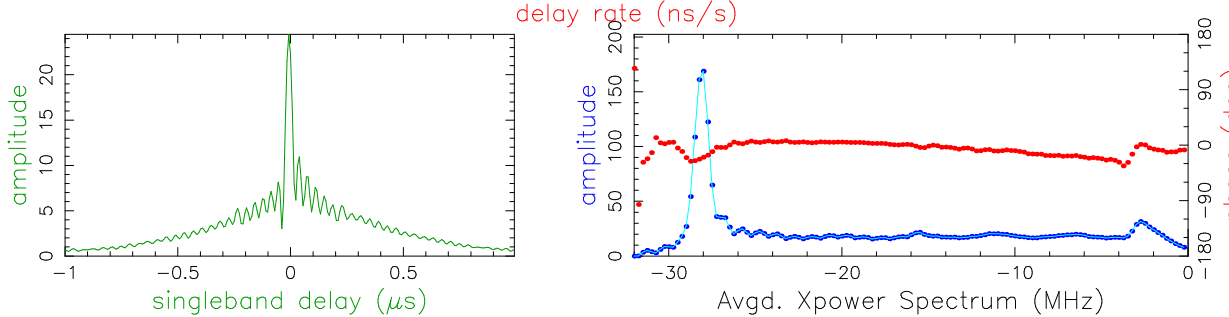
Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.287.zpwiuc



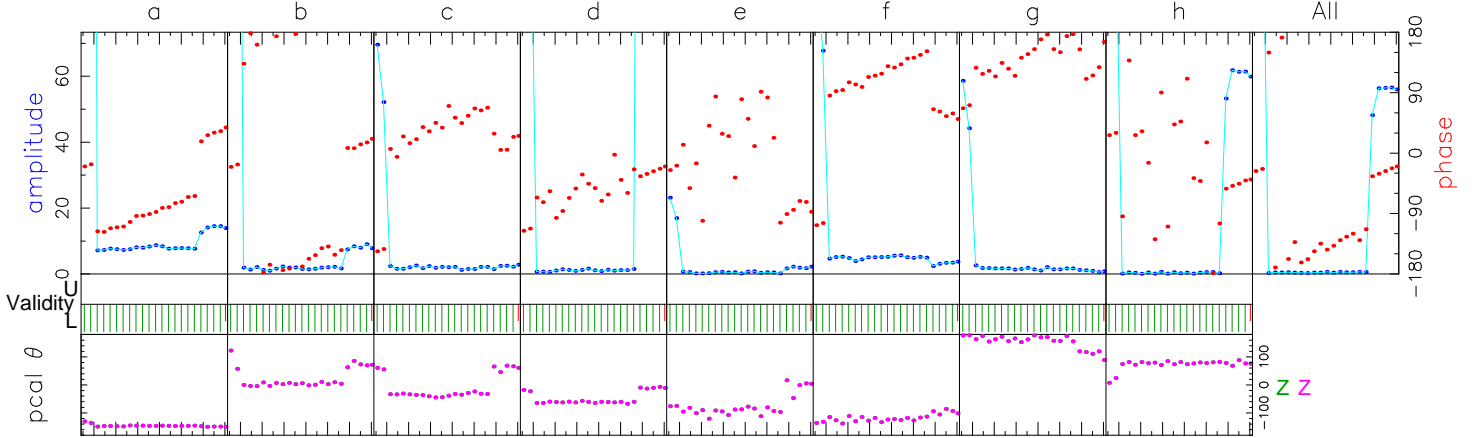
Fringe quality 1

SNR 940.6
 Int time 395.318
 Amp 24.465
 Phase -26.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.007217
 MBD -0.010303
 Fringe rate (Hz)
 -0.000612
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:089
 Start 141524.50
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 2017:207:150845
 2017:214:152414
 2017:188:152524
 RA & Dec (J2000)
 03h19m48.1601s
 +41°30'42.104"



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.50 sec / seg.), time ticks 30 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-20.8	-18.4	-143.5	-38.4	-27.0	-134.5	82.8	-9.1	Phase	-26.9
	75.9	29.6	3.6	76.7	2.1	4.6	5.1	19.2	Ampl.	27.1
	127.6	127.8	124.9	127.9	124.4	129.9	123.5	126.9	Sbd box	128.1
U/L	0/791	0/791	0/791	0/791	0/791	0/791	0/791	0/791	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.03032251649E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.03032E-02	+/- 2.3E-06
Sband delay (usec)	-7.21700000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-7.21700E-03	+/- 1.8E-05
Phase delay (usec)	-8.66033973594E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-8.66034E-07	+/- 3.9E-09
Delay rate (us/s)	-7.10761550964E-09		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-7.10762E-09	+/- 1.7E-11
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-26.9	+/- 0.1

ph/seg (deg) 103.1 0.3 Theor. Amplitude 24.465 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 187.6 0.5 Search (2048X32) 23.366 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 79.4 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 122.0 0.3 Inc. seg. avg. 24.997 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Z: az 214.7 el 69.0 pa 21.9 Z: az 214.7 el 69.0 pa 21.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0244/ZZ.zpwiuc Output file: /Exps/c171a/gmva/1234/No0244/ZZ.W.288.zpwiuc