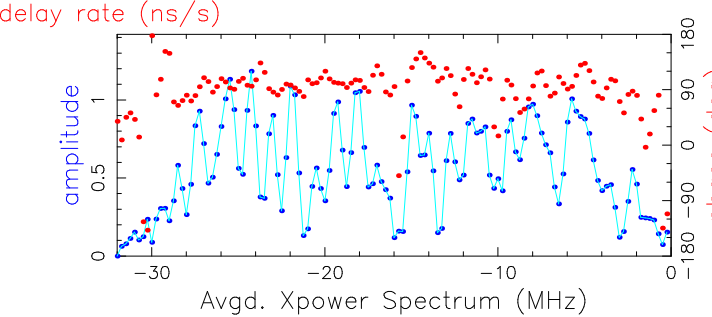
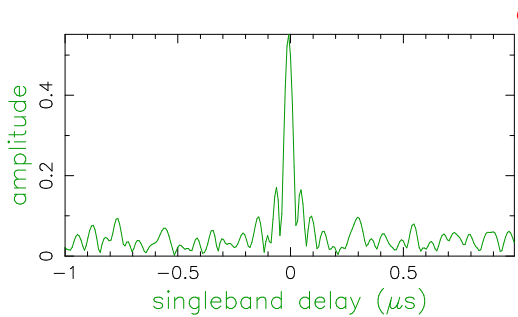
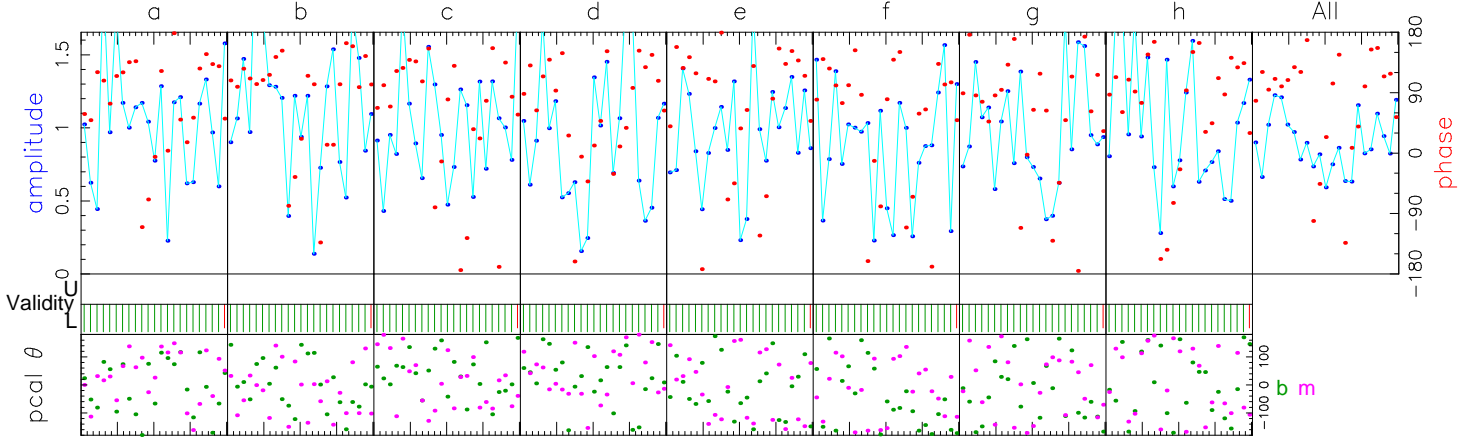


Fringe quality 9
SNR 16.5
Int time 239.990
Amp 0.552
Phase 108.4
PFD 0.0e+00
Delays (us)
SBD -0.009075
MBD -0.007558
Fringe rate (Hz)
-0.005919
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022531
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"



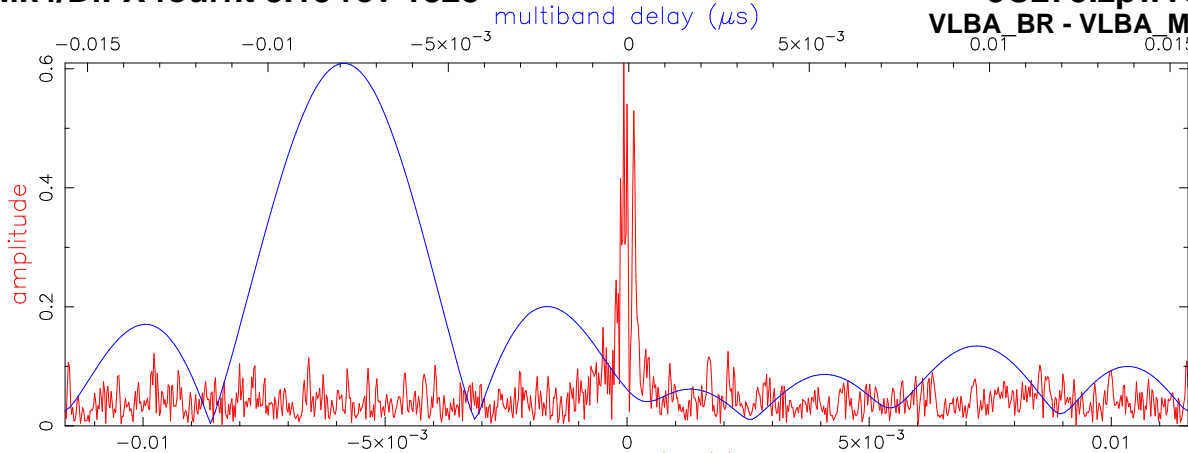
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



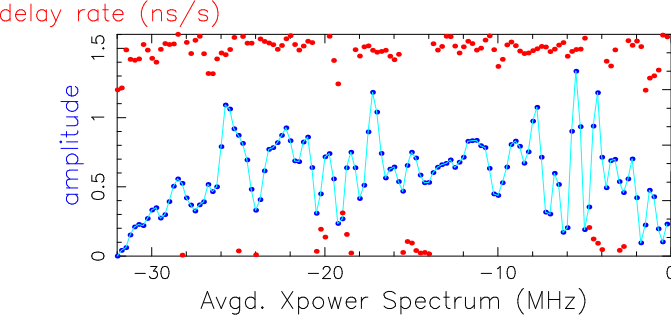
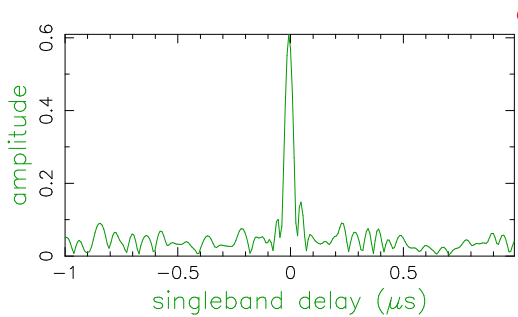
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	105.4	108.5	118.3	85.9	130.2	111.9	102.2	107.8	Phase	108.4
	0.6	0.7	0.5	0.6	0.5	0.5	0.5	0.6	Ampl.	0.6
	128.1	128.3	128.4	127.5	128.2	128.1	126.9	127.4	Sbd box	127.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.61848928156E+03		Apriori delay (usec)		7.61849683977E+03		Resid mbdelay (usec)		-7.55821E-03	+/- 1.3E-04
Sband delay (usec)	7.61848776477E+03		Apriori clock (usec)		-5.4823465E+00		Resid sbdelay (usec)		-9.07500E-03	+/- 1.0E-03
Phase delay (usec)	7.61849684326E+03		Apriori clockrate (us/s)		7.5366905E-08		Resid phdelay (usec)		3.49618E-06	+/- 2.2E-07
Delay rate (us/s)	-6.81786805030E-01		Apriori rate (us/s)		-6.81786736312E-01		Resid rate (us/s)		-6.87181E-08	+/- 1.6E-09
Total phase (deg)	28.4		Apriori accel (us/s/s)		-3.89588770790E-05		Resid phase (deg)		108.4	+/- 6.9

ph/seg (deg) 65.0 16.6 Theor. Amplitude 0.552 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.7 29.0 Search (1024X32) 0.545 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.8 9.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 14.6 17.1 Inc. seg. avg. 0.859 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. 0.554 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

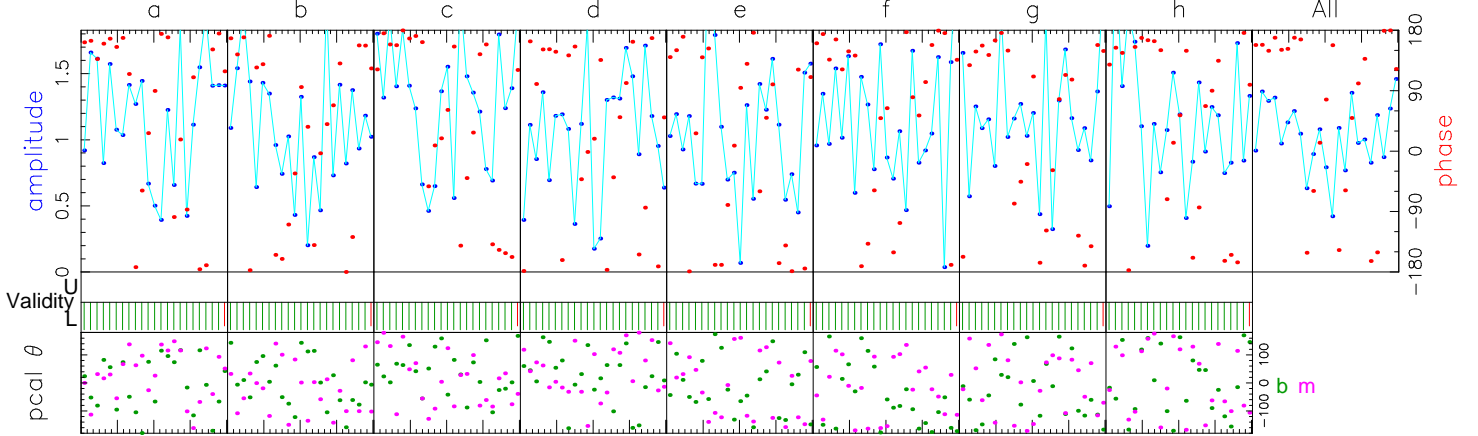
b: az 122.2 el 27.9 pa -34.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 3880.836 3483.026 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bm.W.21.zpwvct



Fringe quality 9
SNR 18.3
Int time 239.990
Amp 0.610
Phase 158.7
PFD 0.0e+00
Delays (us)
SBD -0.006995
MBD -0.007888
Fringe rate (Hz)
-0.006182
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022532
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

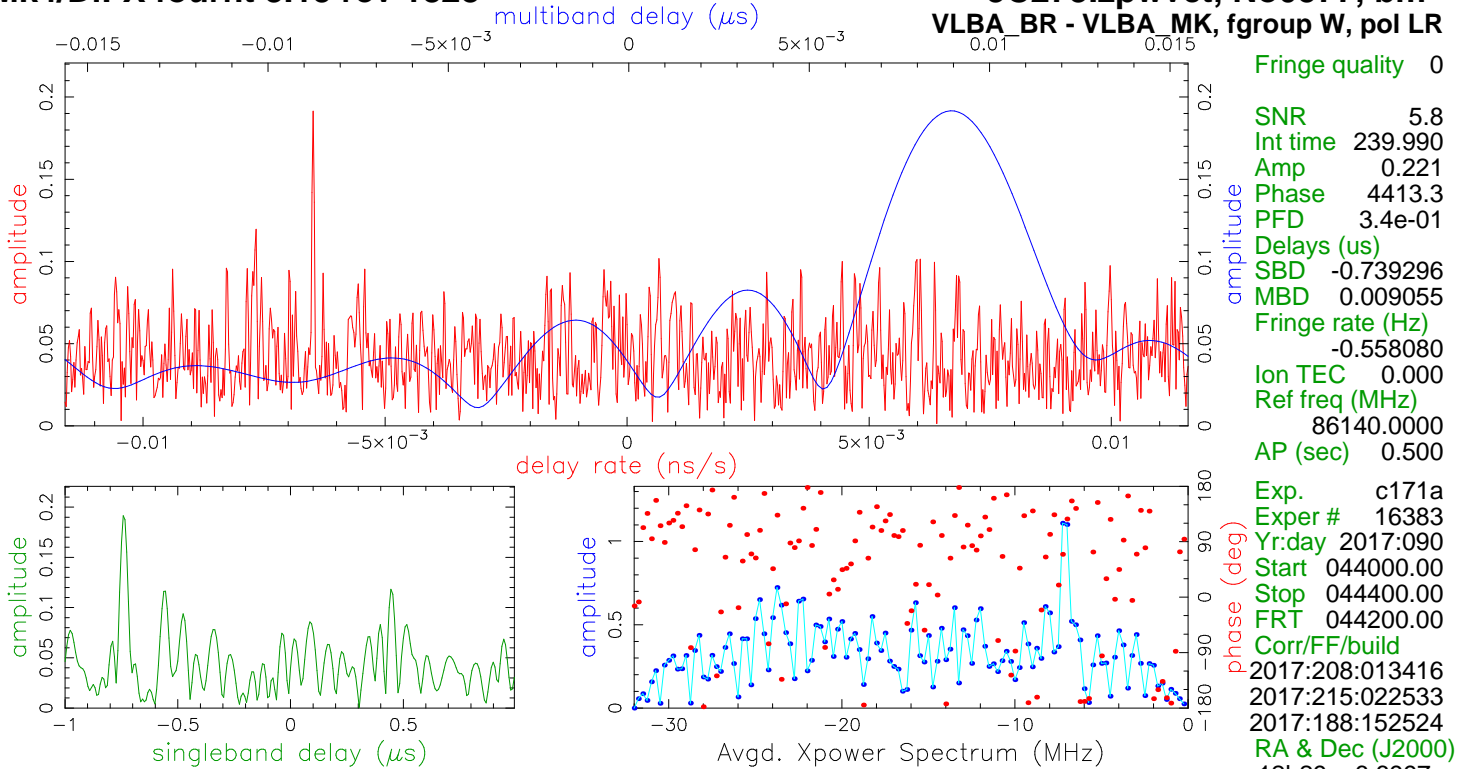


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

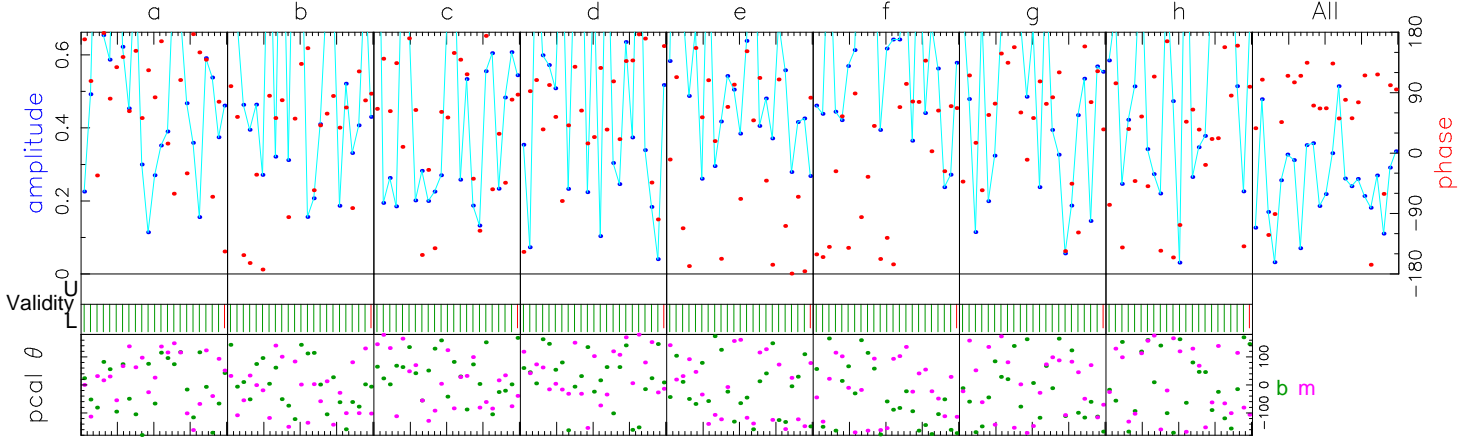


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	158.7	156.2	165.9	156.6	156.8	151.9	166.8	156.7	Phase	158.7
	0.7	0.6	0.6	0.4	0.6	0.7	0.6	0.6	Ampl.	0.6
	127.8	128.4	128.2	127.6	128.6	128.4	128.1	127.5	Sbd box	128.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.61848895131E+03		Apriori delay (usec)		7.61849683977E+03		Resid mbdelay (usec)		-7.88846E-03	+/- 1.2E-04
Sband delay (usec)	7.61848984477E+03		Apriori clock (usec)		-5.4823465E+00		Resid sbdelay (usec)		-6.99500E-03	+/- 9.4E-04
Phase delay (usec)	7.61849684489E+03		Apriori clockrate (us/s)		7.5366905E-08		Resid phdelay (usec)		5.11889E-06	+/- 2.0E-07
Delay rate (us/s)	-6.81786808076E-01		Apriori rate (us/s)		-6.81786736312E-01		Resid rate (us/s)		-7.17640E-08	+/- 1.5E-09
Total phase (deg)	78.7		Apriori accel (us/s/s)		-3.89588770790E-05		Resid phase (deg)		158.7	+/- 6.3

ph/seg (deg) 64.9 15.0 Search (1024X32) 0.598 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 80.6 26.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.5 8.9 Inc. seg. avg. 1.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 16.6 15.5 Inc. frq. avg. 0.604 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
120.7	81.5	83.9	91.0	122.2	90.6	95.5	75.0	Phase	93.3
0.2	0.4	0.2	0.3	0.2	0.1	0.2	0.2	Ampl.	0.2
45.8	34.9	217.6	86.7	227.2	207.9	7.2	57.1	Sbd box	34.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m 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	
m 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
								Tracks	
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.61775589510E+03		Apriori delay (usec)	7.61849683977E+03		Resid mbdelay (usec)	9.05533E-03	+/-	3.7E-04
Sband delay (usec)	7.61775754377E+03		Apriori clock (usec)	-5.4823465E+00		Resid sbdelay (usec)	-7.39296E-01	+/-	3.0E-03
Phase delay (usec)	7.61849684278E+03		Apriori clockrate (us/s)	7.5366905E-08		Resid phdelay (usec)	3.00764E-06	+/-	6.4E-07
Delay rate (us/s)	-6.81793215066E-01		Apriori rate (us/s)	-6.81786736312E-01		Resid rate (us/s)	-6.47875E-06	+/-	4.6E-09
Total phase (deg)		4333.2	Apriori accel (us/s/s)	-3.89588770790E-05		Resid phase (deg)	4413.3	+/-	19.8

ph/seg (deg) 67.1 47.4 Search (1024X32) 0.184 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

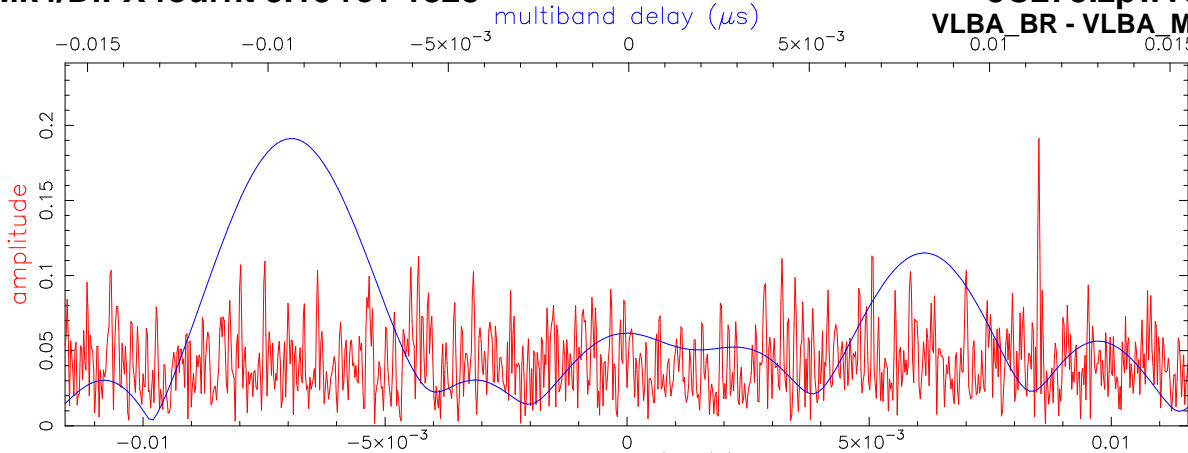
amp/seg (%) 67.5 82.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 19.0 28.0 Inc. seg. avg. 0.218 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

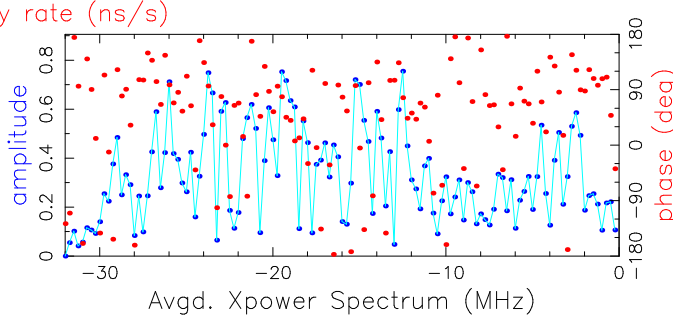
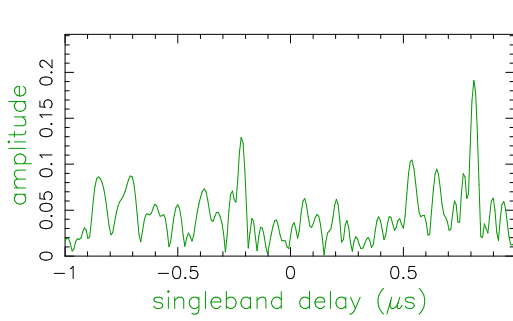
amp/frq (%) 38.8 48.8 Inc. frq. avg. 0.203 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

b: az 122.2 el 27.9 pa -34.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 3880.836 3483.026 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

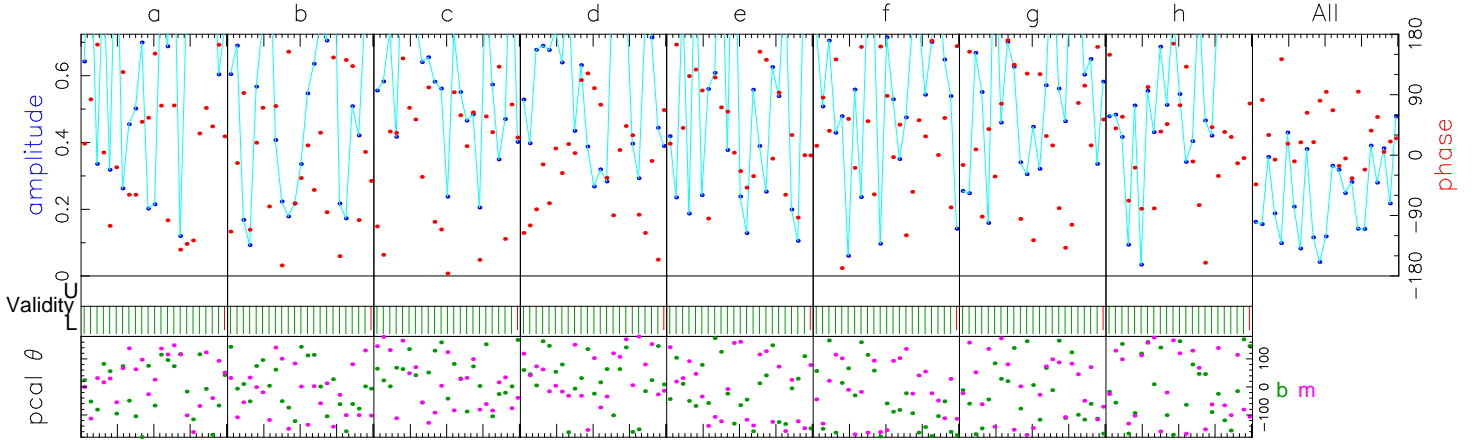
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bm.W.23.zpwvct simultaneous interpolator



Fringe quality 0
SNR 5.7
Int time 239.990
Amp 0.241
Phase -4655.9
PFD 4.4e-01
Delays (us)
SBD 0.813653
MBD -0.009351
Fringe rate (Hz) 0.732543
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022534
2017:188:152524
RA & Dec (J2000)
12h29m 6.6995"
+2°03' 8.598"



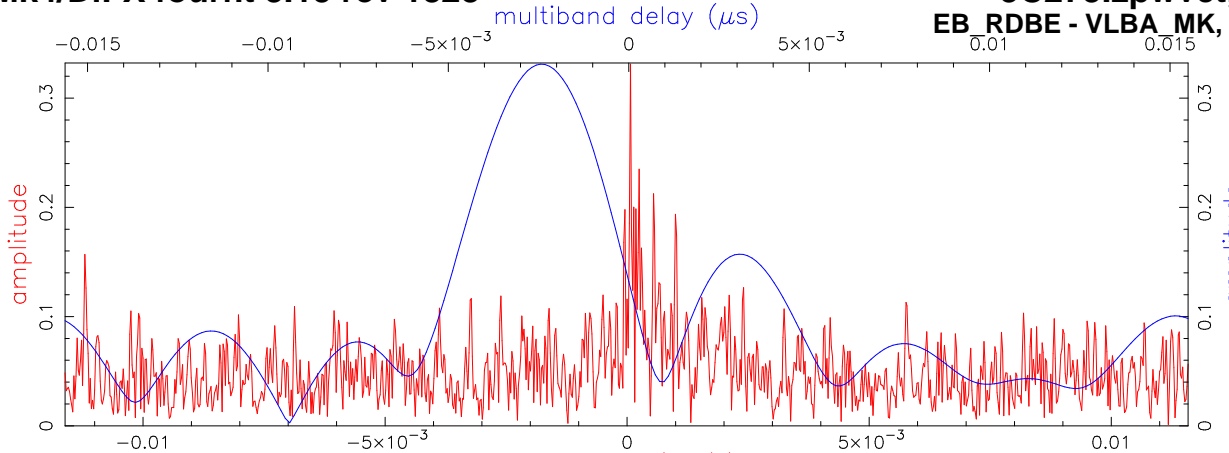
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



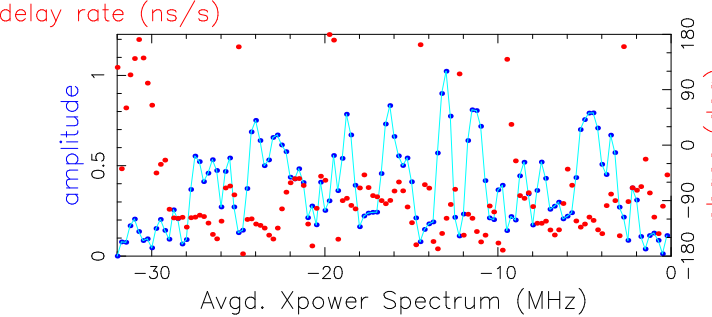
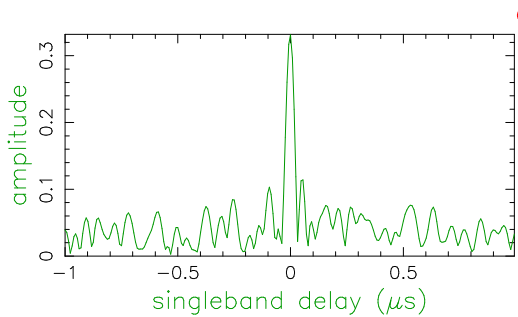
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	37.5	-23.2	68.6	-16.6	30.4	26.5	25.7	27.6	Phase	24.1
	0.3	0.2	0.3	0.3	0.3	0.3	0.1	0.4	Ampl.	0.2
	220.1	138.0	97.0	235.8	212.2	116.2	150.3	232.7	Sbd box	233.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.61929998922E+03		Apriori delay (usec)		7.61849683977E+03		Resid mbdelay (usec)		-9.35055E-03	+/- 3.8E-04
Sband delay (usec)	7.61931049277E+03		Apriori clock (usec)		-5.4823465E+00		Resid sbdelay (usec)		8.13653E-01	+/- 3.0E-03
Phase delay (usec)	7.61849684054E+03		Apriori clockrate (us/s)		7.5366905E-08		Resid phdelay (usec)		7.76162E-07	+/- 6.4E-07
Delay rate (us/s)	-6.81778232214E-01		Apriori rate (us/s)		-6.81786736312E-01		Resid rate (us/s)		8.50410E-06	+/- 4.6E-09
Total phase (deg)	-4376.0		Apriori accel (us/s/s)		-3.89588770790E-05		Resid phase (deg)		-4655.9	+/- 20.0

ph/seg (deg) 46.9 RMS 47.9 Theor. 47.9 Amplitude 0.241 +/- 0.042 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.5 83.5 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.9 28.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 36.5 49.3 Inc. seg. avg. 0.224 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. 0.240 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 122.2 el 27.9 pa -34.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 3880.836 3483.026 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bm.W.24.zpwvct

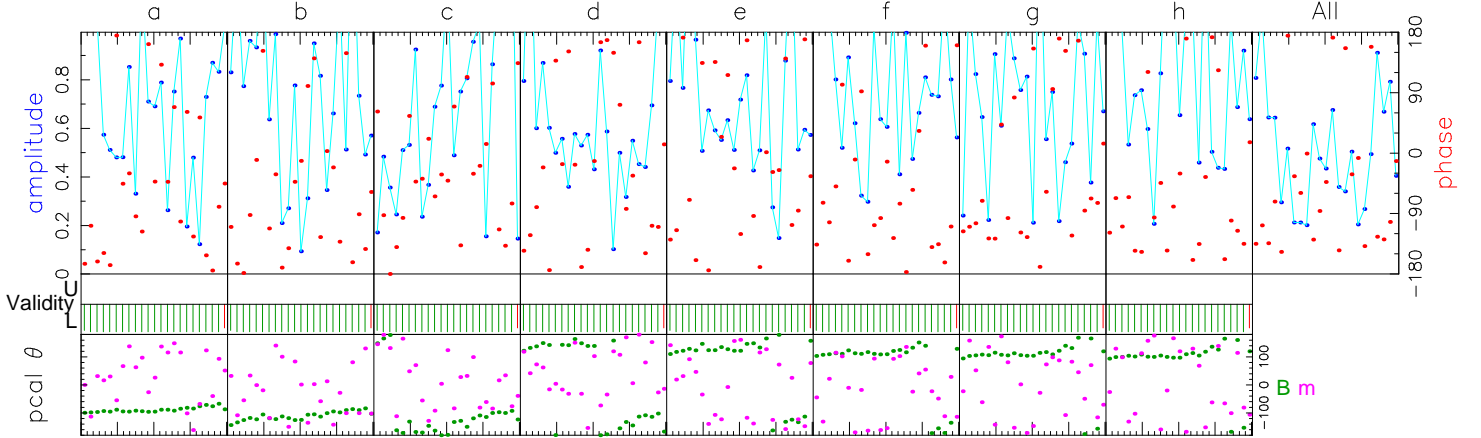


Fringe quality 9
SNR 9.9
Int time 239.447
Amp 0.332
Phase -117.5
PFD 3.0e-15
Delays (us)
SBD -0.001605
MBD -0.002425
Fringe rate (Hz) 0.005544
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022609
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

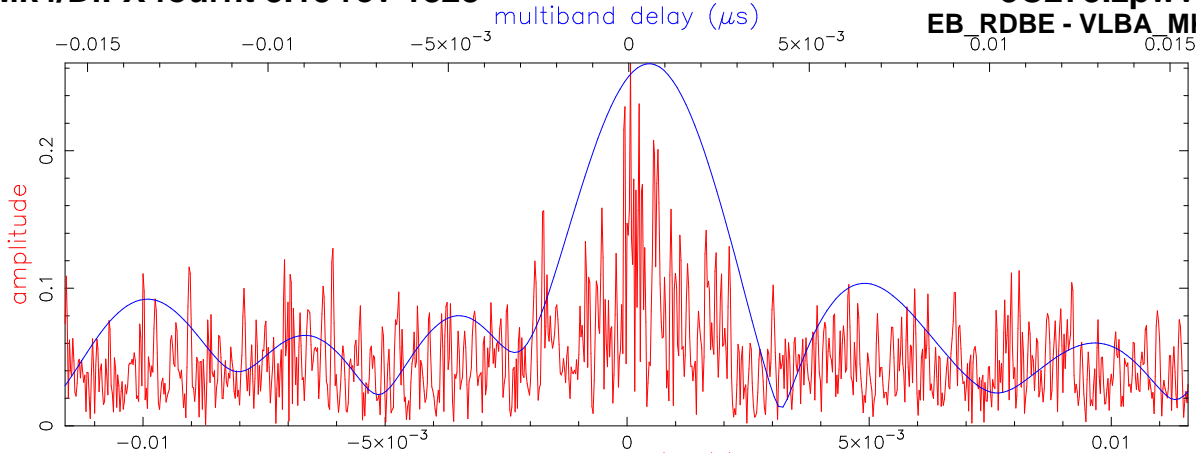


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-125.9	-129.4	-65.3	-121.8	-132.6	-123.3	-120.1	-112.6	Phase	-117.5
	0.4	0.3	0.3	0.2	0.3	0.4	0.3	0.5	Ampl.	0.3
	128.2	130.0	127.5	248.8	130.1	129.5	127.8	128.9	Sbd box	128.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

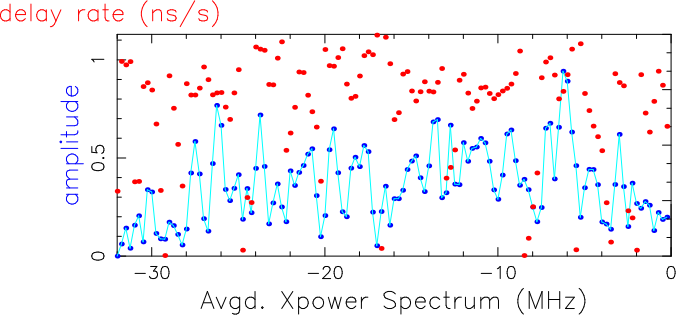
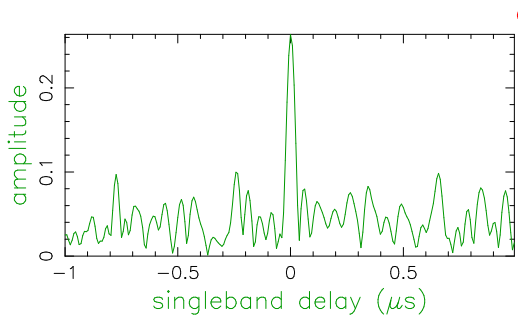
Group delay (usec)(sbd)	8.14014241134E+02	Apriori delay (usec)	8.14016666364E+02	Resid mbdelay (usec)	-2.42523E-03	+/-	2.2E-04
Sband delay (usec)	8.14015061364E+02	Apriori clock (usec)	2.7722023E+01	Resid sbdelay (usec)	-1.60500E-03	+/-	1.7E-03
Phase delay (usec)	8.14016662574E+02	Apriori clockrate (us/s)	3.8340011E-08	Resid phdelay (usec)	-3.78992E-06	+/-	3.7E-07
Delay rate (us/s)	-2.41986880108E+00	Apriori rate (us/s)	-2.41986886544E+00	Resid rate (us/s)	6.43647E-08	+/-	2.7E-09
Total phase (deg)	113.1	Apriori accel (us/s/s)	-2.50168220072E-06	Resid phase (deg)	-117.5	+/-	11.5

ph/seg (deg)	62.5	Theor.	27.6	Amplitude	0.332 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	89.5	Search (1024X32)	0.318	Apriori clock (usec)	0.318	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	23.3	Interp.	0.000	Apriori clockrate (us/s)	3.8340011E-08	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	25.5	Inc. seg. avg.	0.458	Apriori rate (us/s)	-2.41986886544E+00	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.335	Apriori accel (us/s/s)	-2.50168220072E-06	Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

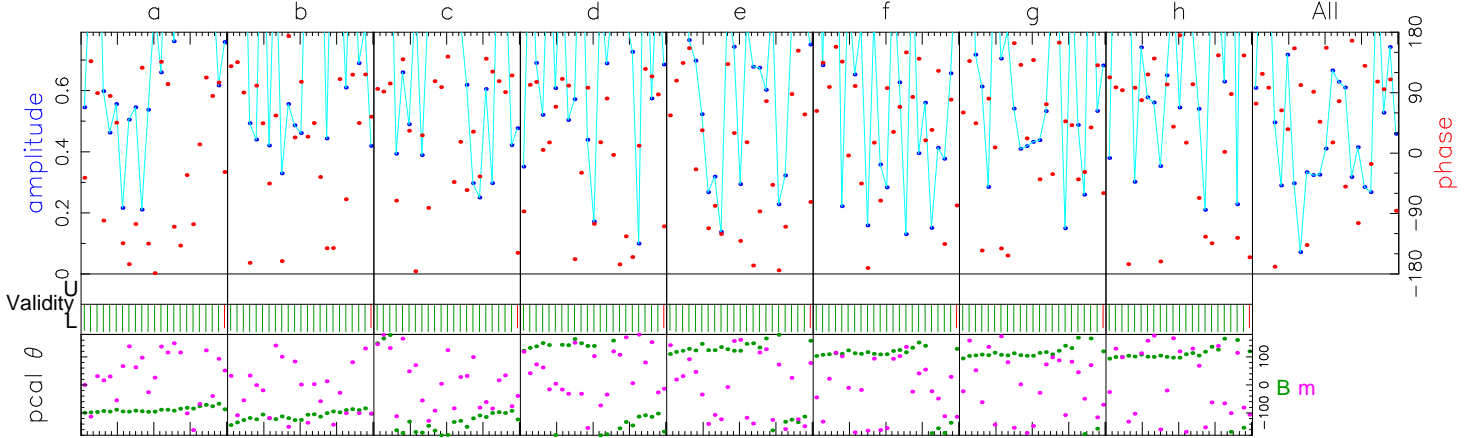
B: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.57.zpwwct



Fringe quality 9
 SNR 7.9
 Int time 239.447
 Amp 0.264
 Phase 96.9
 PFD 2.5e-07
 Delays (us)
 SBD 0.001315
 MBD 0.000551
 Fringe rate (Hz) 0.005620
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022610
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

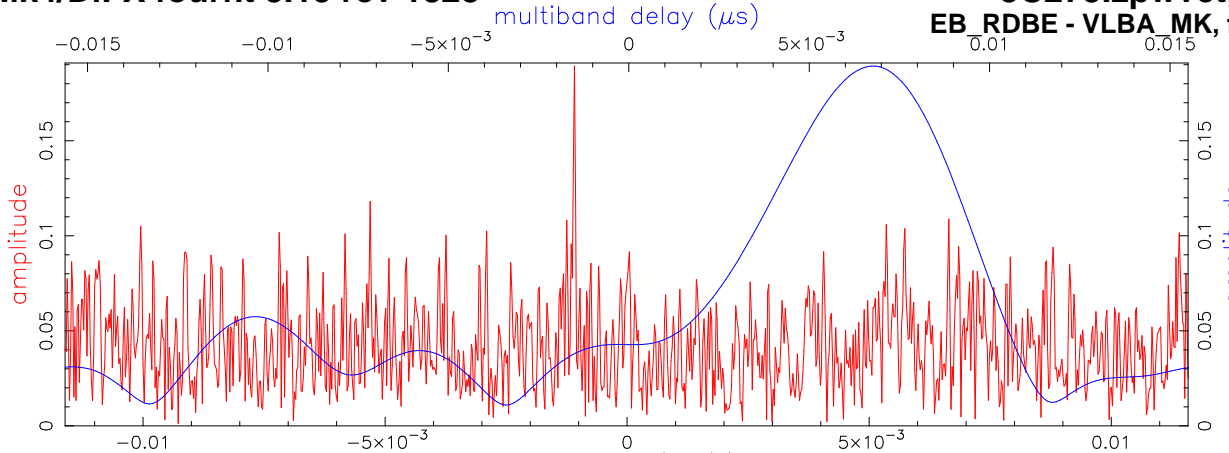


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

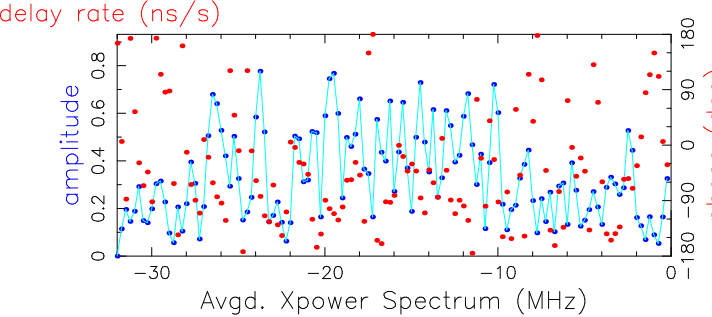
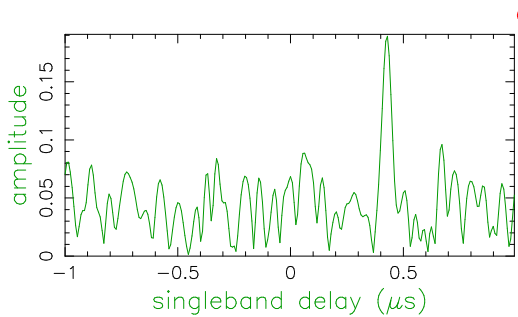


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	130.5	96.9
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.2	0.3
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.4	0.3
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	193.7	129.2
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0/480	0/480
B	1000	1000	1000	1000	1000	1000	1000	1000	0/480	0/480
m	1000	1000	1000	1000	1000	1000	1000	1000	0/480	0/480
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	0/480	0/480
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	0/480	0/480
Group delay (usec)(sbd)	8.14017217072E+02		Apriori delay (usec)		8.14016666364E+02		Resid mbdelay (usec)		5.50708E-04	+/- 2.8E-04
Sband delay (usec)	8.14017981364E+02		Apriori clock (usec)		2.7722023E+01		Resid sbdelay (usec)		1.31500E-03	+/- 2.2E-03
Phase delay (usec)	8.14016669489E+02		Apriori clockrate (us/s)		3.8340011E-08		Resid phdelay (usec)		3.12494E-06	+/- 4.7E-07
Delay rate (us/s)	-2.41986880020E+00		Apriori rate (us/s)		-2.41986886544E+00		Resid rate (us/s)		6.52441E-08	+/- 3.4E-09
Total phase (deg)	327.5		Apriori accel (us/s/s)		-2.50168220072E-06		Resid phase (deg)		96.9	+/- 14.5

ph/seg (deg) 78.4 34.8 Search (1024X32) 0.256 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 146.7 60.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.4 20.5 Inc. seg. avg. 0.446 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 35.2 35.8 Inc. frq. avg. 0.261 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 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.58.zpwwct simultaneous interpolator

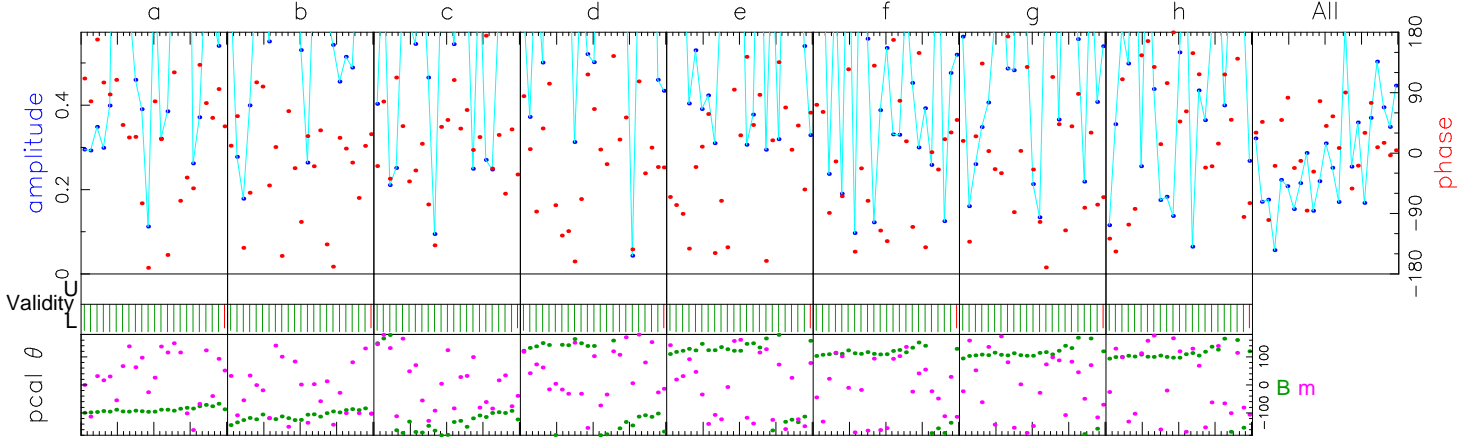


Fringe quality 0
SNR 5.7
Int time 239.447
Amp 0.191
Phase -2318.8
PFD 5.4e-01
Delays (us)
SBD 0.427346
MBD 0.006837
Fringe rate (Hz)
-0.093769
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022611
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



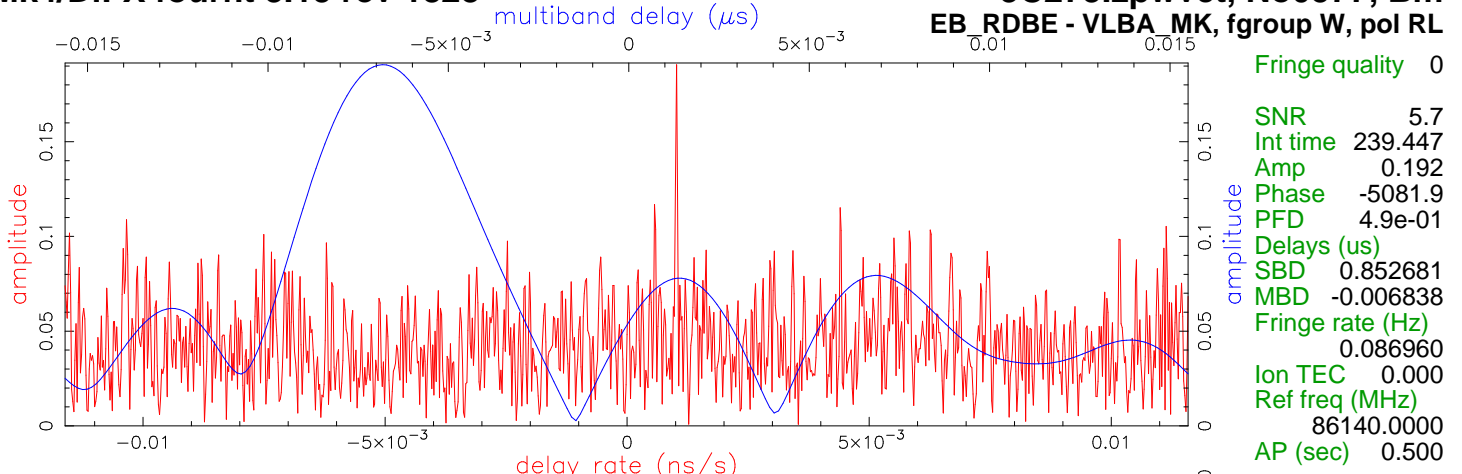
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd) 8.14429752910E+02 Apriori delay (usec) 8.14016666364E+02 Resid mbdelay (usec) 6.83655E-03 +/- 3.8E-04
Sband delay (usec) 8.14444012364E+02 Apriori clock (usec) 2.7722023E+01 Resid sbdelay (usec) 4.27346E-01 +/- 3.0E-03
Phase delay (usec) 8.14016667046E+02 Apriori clockrate (us/s) 3.8340011E-08 Resid phdelay (usec) 6.82499E-07 +/- 6.5E-07
Delay rate (us/s) -2.41986995401E+00 Apriori rate (us/s) -2.41986886544E+00 Resid rate (us/s) -1.08857E-06 +/- 4.7E-09
Total phase (deg) -2088.2 Apriori accel (us/s/s) -2.50168220072E-06 Resid phase (deg) -2318.8 +/- 20.1

RMS Theor. Amplitude 0.191 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 50.8 48.3 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 79.3 84.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
ph/frq (deg) 37.1 28.5 Inc. seg. avg. 0.204 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 (%) 46.6 49.7 Inc. frq. avg. 0.184 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

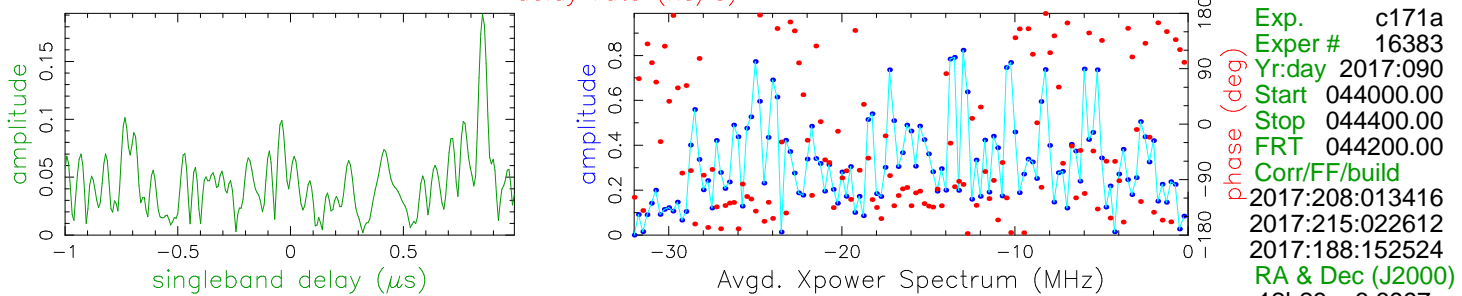
B: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.59.zpwwct

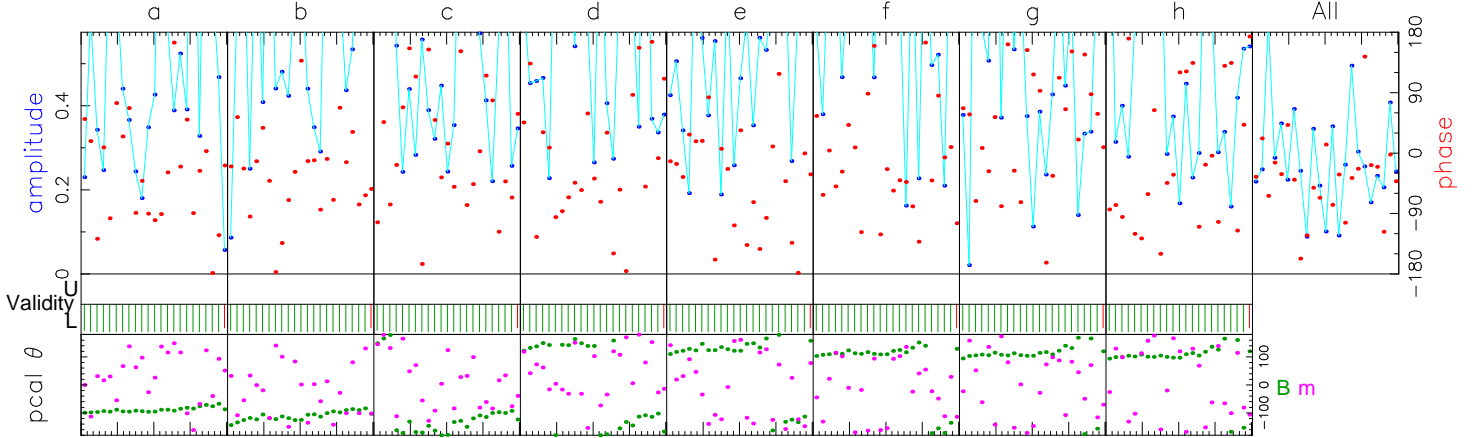


Fringe quality 0
 SNR 5.7
 Int time 239.447
 Amp 0.192
 Phase -5081.9
 PFD 4.9e-01
 Delays (us)
 SBD 0.852681
 MBD -0.006838
 Fringe rate (Hz) 0.086960
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022612
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

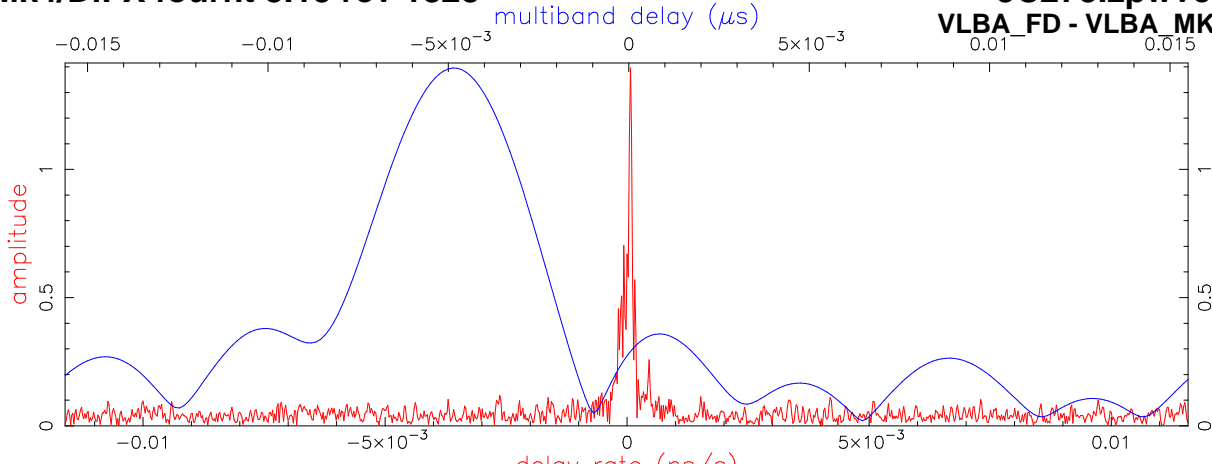


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-52.3	-32.7	-61.5	-53.7	-25.8	-37.9	44.1	-92.1	Phase	-41.9
	0.2	0.4	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.2
	16.8	238.6	69.3	134.9	106.1	245.6	188.0	123.8	Sbd box	238.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	8.14884828426E+02		Apriori delay (usec)		8.14016666364E+02		Resid mbdelay (usec)		-6.83794E-03	+/- 3.8E-04
Sband delay (usec)	8.14869347364E+02		Apriori clock (usec)		2.7722023E+01		Resid sbdelay (usec)		8.52681E-01	+/- 3.0E-03
Phase delay (usec)	8.14016665013E+02		Apriori clockrate (us/s)		3.8340011E-08		Resid phdelay (usec)		-1.35044E-06	+/- 6.5E-07
Delay rate (us/s)	-2.41986785592E+00		Apriori rate (us/s)		-2.41986886544E+00		Resid rate (us/s)		1.00952E-06	+/- 4.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.50168220072E-06		Resid phase (deg)		-5081.9	+/- 20.1

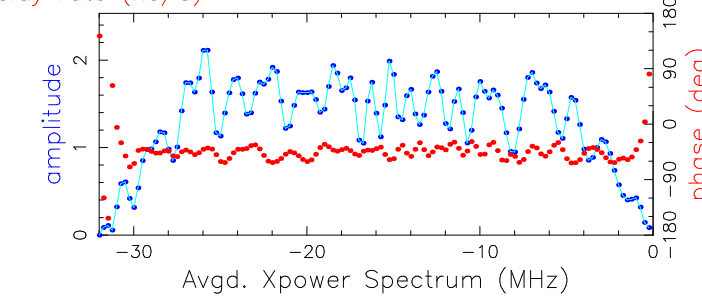
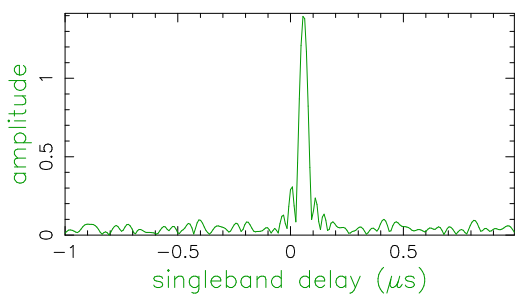
ph/seg (deg) 59.3 48.1 Search (1024X32) 0.173 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.9 83.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.6 28.4 Inc. seg. avg. 0.204 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 37.0 49.5 Inc. frq. avg. 0.196 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.60.zpwwct simultaneous interpolator



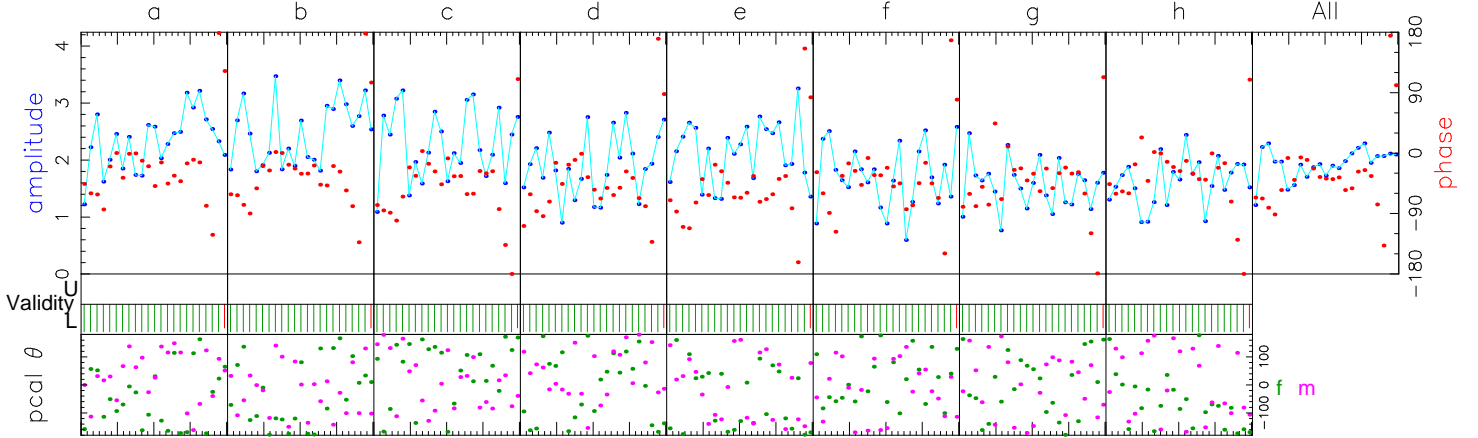
Fringe quality 6

SNR 42.4
Int time 239.984
Amp 1.415
Phase -408.2
PFD 0.0e+00
Delays (us)
SBD 0.058033
MBD -0.004831
Fringe rate (Hz) 0.006651
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022713
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

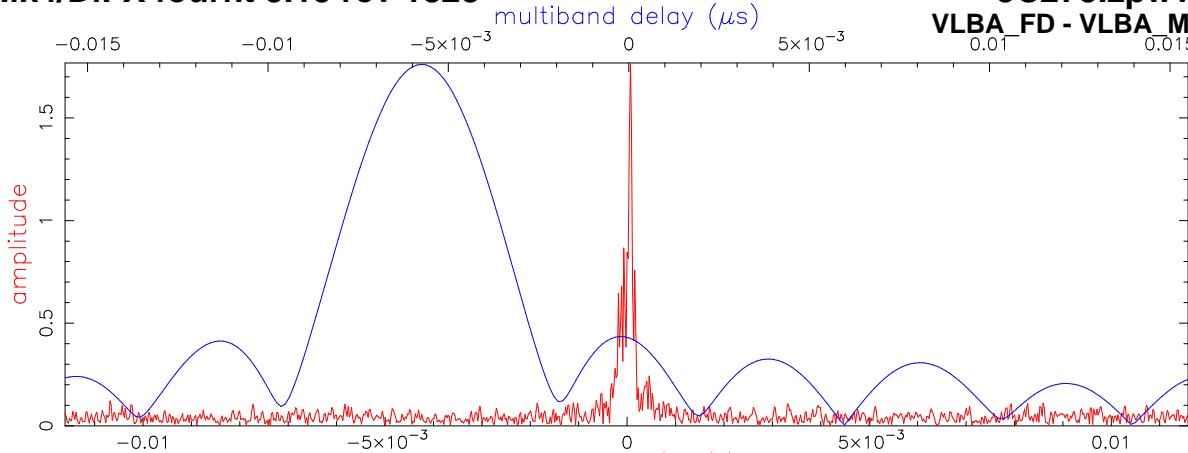


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

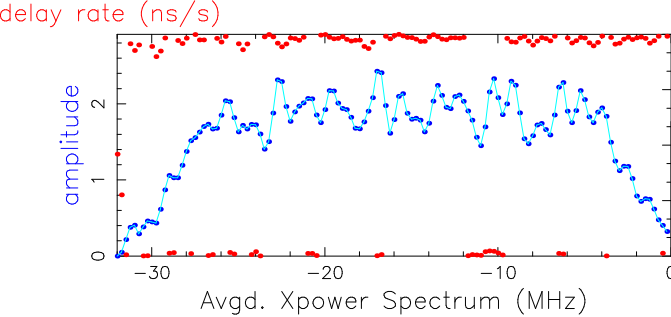
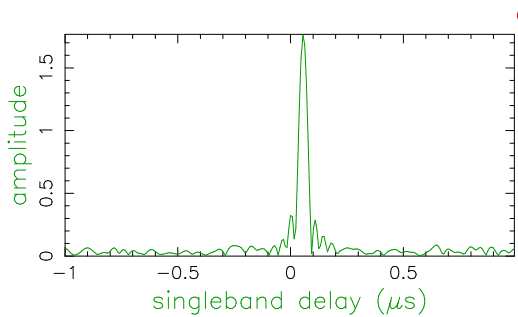


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	Ampl.	1.4
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	136.4
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.34253082124E+04		Apriori delay (usec)	1.34252505434E+04		Resid mbdelay (usec)	-4.83092E-03	+/-	5.1E-05
Sband delay (usec)		1.34253085759E+04		Apriori clock (usec)	-1.7713773E+00		Resid sbdelay (usec)	5.80325E-02	+/-	4.1E-04
Phase delay (usec)		1.34252505418E+04		Apriori clockrate (us/s)	-3.5806747E-07		Resid phdelay (usec)	-1.55436E-06	+/-	8.7E-08
Delay rate (us/s)		-7.39890568484E-01		Apriori rate (us/s)	-7.39890645692E-01		Resid rate (us/s)	7.72086E-08	+/-	6.3E-10
Total phase (deg)			-118.7	Apriori accel (us/s/s)	-7.07213243588E-05		Resid phase (deg)	-408.2	+/-	2.7

ph/seg (deg) 50.2 6.5 Search (1024X32) 1.350 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.1 11.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.2 3.8 Inc. seg. avg. 1.923 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 17.4 6.7 Inc. frq. avg. 1.421 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 126.5 el 47.8 pa -43.9 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4191.522 1316.369 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/fm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/fm.W.117.zpwwct

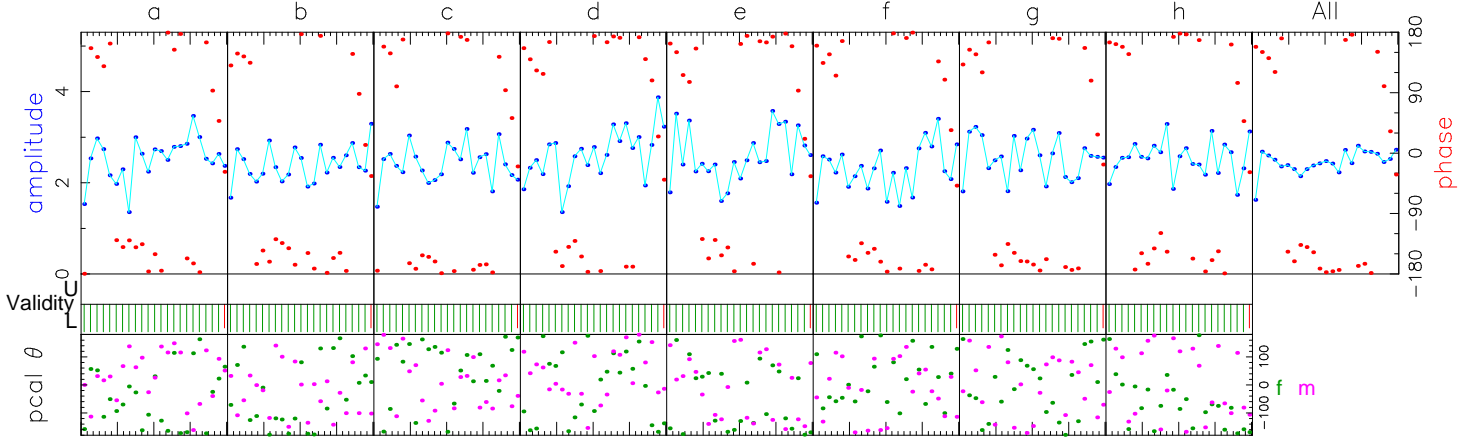


Fringe quality 5
 SNR 52.9
 Int time 239.984
 Amp 1.768
 Phase -183.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.056357
 MBD -0.005742
 Fringe rate (Hz) 0.006589
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



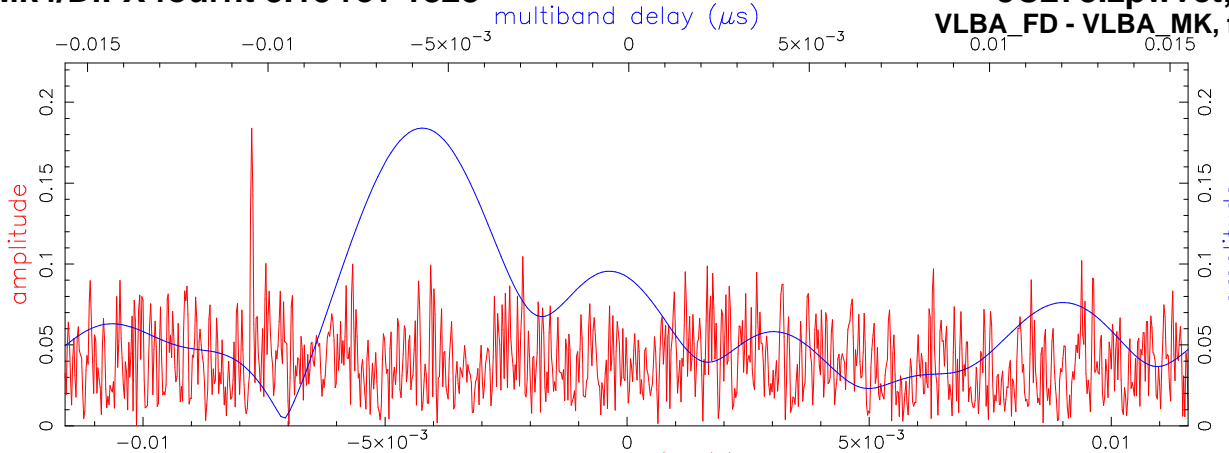
Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022714
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-179.0	-175.5	172.2	172.5	169.2	176.3	174.9	-174.4	Phase	177.0
	1.8	1.6	1.9	1.7	1.7	1.7	1.9	1.9	Ampl.	1.8
	136.2	136.1	135.9	136.0	136.4	136.3	136.3	136.3	Sbd box	136.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.34253073010E+04		Apriori delay (usec)		1.34252505434E+04		Resid mbdelay (usec)		-5.74235E-03	+/- 4.1E-05
Sband delay (usec)	1.34253069009E+04		Apriori clock (usec)		-1.7713773E+00		Resid sbdelay (usec)		5.63575E-02	+/- 3.3E-04
Phase delay (usec)	1.34252505491E+04		Apriori clockrate (us/s)		-3.5806747E-07		Resid phdelay (usec)		5.70840E-06	+/- 7.0E-08
Delay rate (us/s)	-7.39890569196E-01		Apriori rate (us/s)		-7.39890645692E-01		Resid rate (us/s)		7.64961E-08	+/- 5.0E-10
Total phase (deg)	-253.5		Apriori accel (us/s/s)		-7.07213243588E-05		Resid phase (deg)		-183.0	+/- 2.2

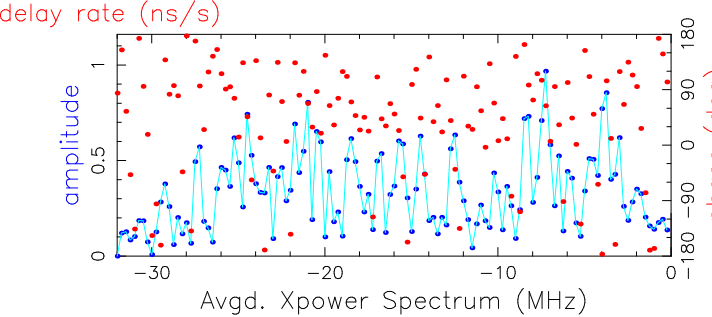
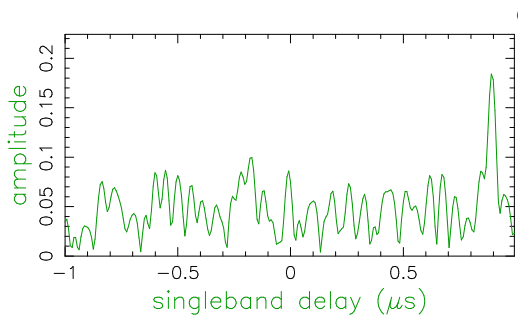
ph/seg (deg) 51.5 5.2 Theor. Amplitude 1.768 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.3 9.1 Search (1024X32) 1.709 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.5 3.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 5.2 5.3 Inc. seg. avg. 2.445 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 126.5 el 47.8 pa -43.9 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4191.522 1316.369 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/fm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/fm.W.118.zpwwct



Fringe quality 0

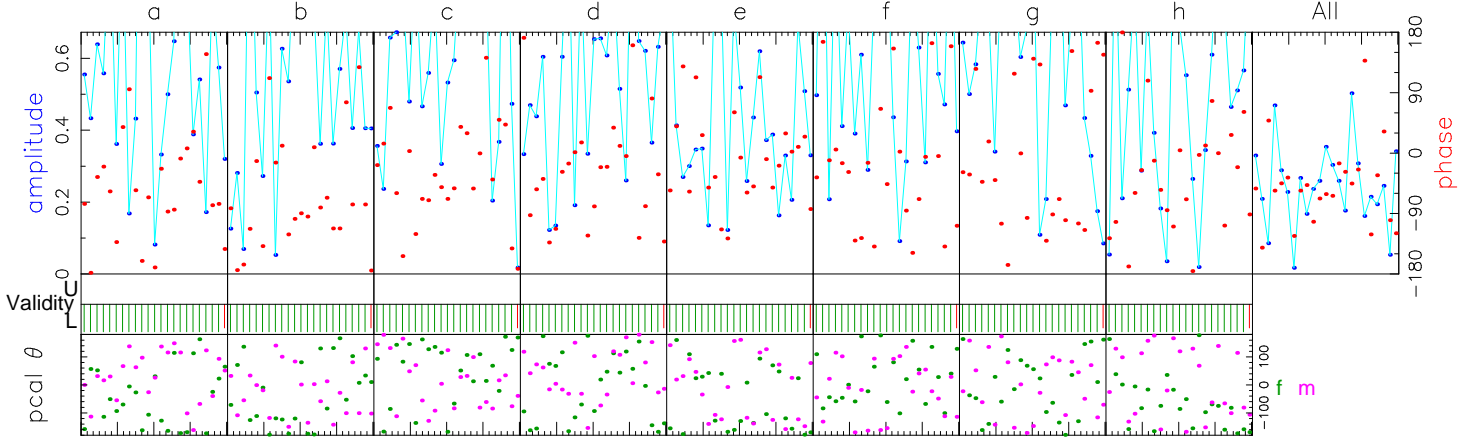
SNR 5.6
Int time 239.984
Amp 0.224
Phase -5275.5
PFD 8.2e-01
Delays (us)
SBD 0.893063
MBD -0.005651
Fringe rate (Hz)
-0.668098
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022715
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"



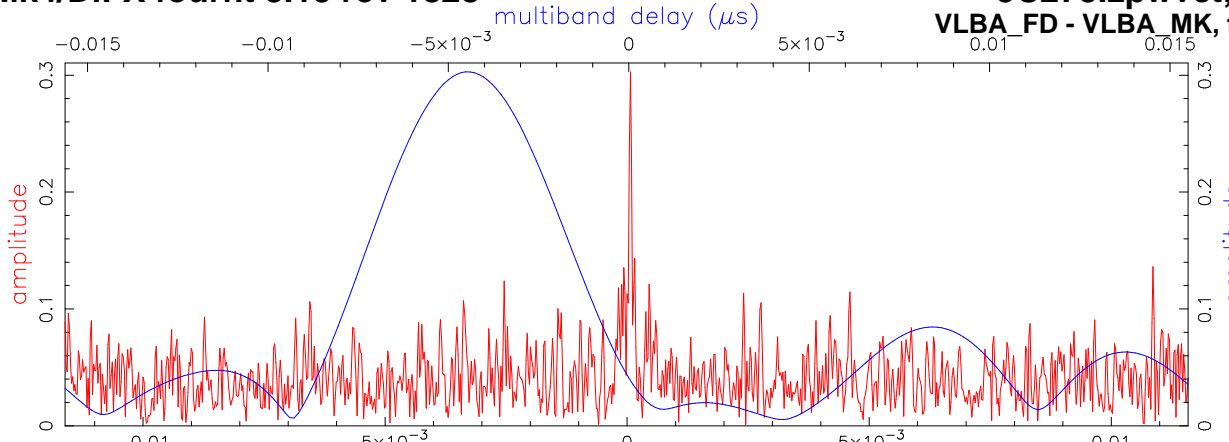
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

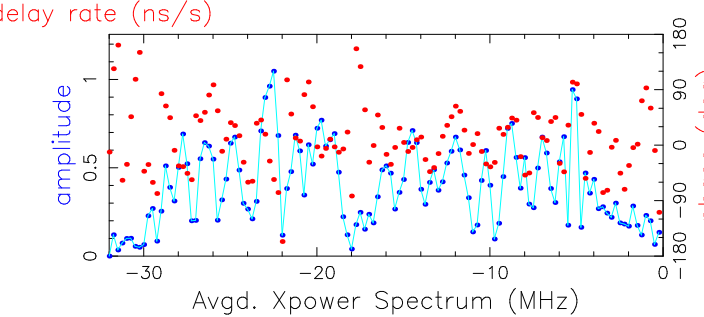
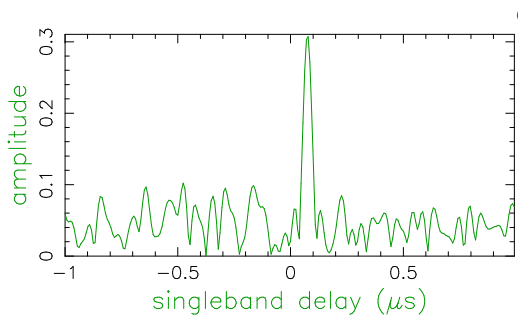


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	1.34261511421E+04		Apriori delay (usec)		1.34252505434E+04		Resid mbdelay (usec)		-5.65122E-03	+/- 3.9E-04
Sband delay (usec)	1.34261436069E+04		Apriori clock (usec)		-1.7713773E+00		Resid sbdelay (usec)		8.93063E-01	+/- 3.1E-03
Phase delay (usec)	1.34252505416E+04		Apriori clockrate (us/s)		-3.5806747E-07		Resid phdelay (usec)		-1.78930E-06	+/- 6.7E-07
Delay rate (us/s)	-7.39898401651E-01		Apriori rate (us/s)		-7.398990645692E-01		Resid rate (us/s)		-7.75596E-06	+/- 4.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.07213243588E-05		Resid phase (deg)		-5275.5	+/- 20.6

ph/seg (deg) 57.2 49.5 Search (1024X32) 0.181 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.1 86.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.7 29.2 Inc. seg. avg. 0.217 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 35.1 51.0 Inc. frq. avg. 0.231 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 f: az 126.5 el 47.8 pa -43.9 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4191.522 1316.369 ion window (TEC) 0.00 0.00

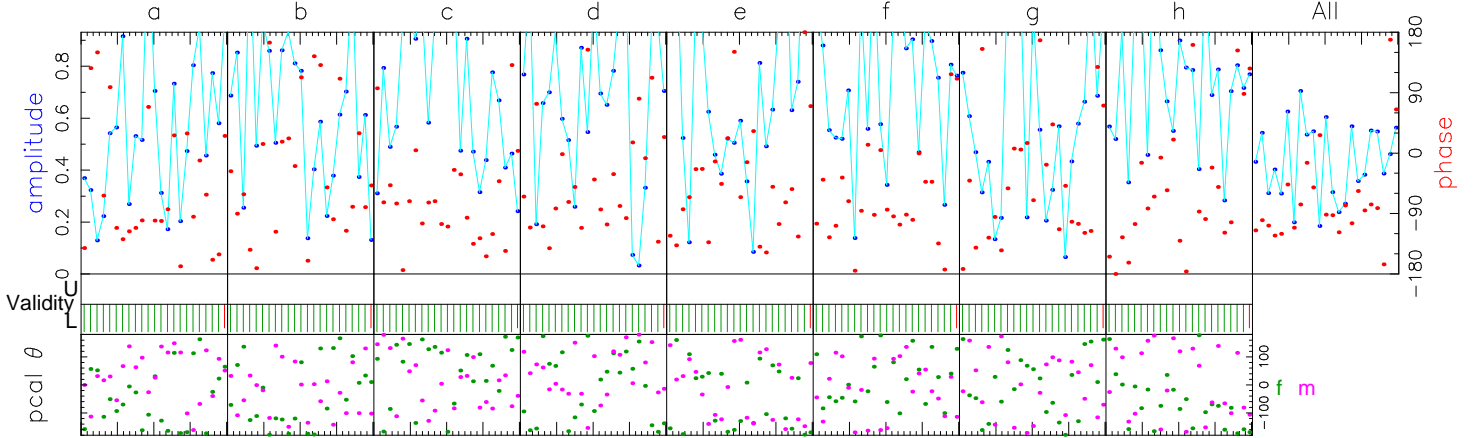


Fringe quality 9
SNR 9.3
Int time 239.984
Amp 0.310
Phase -626.7
PFD 1.4e-12
Delays (us)
SBD 0.075042
MBD -0.004394
Fringe rate (Hz) 0.006310
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022716
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



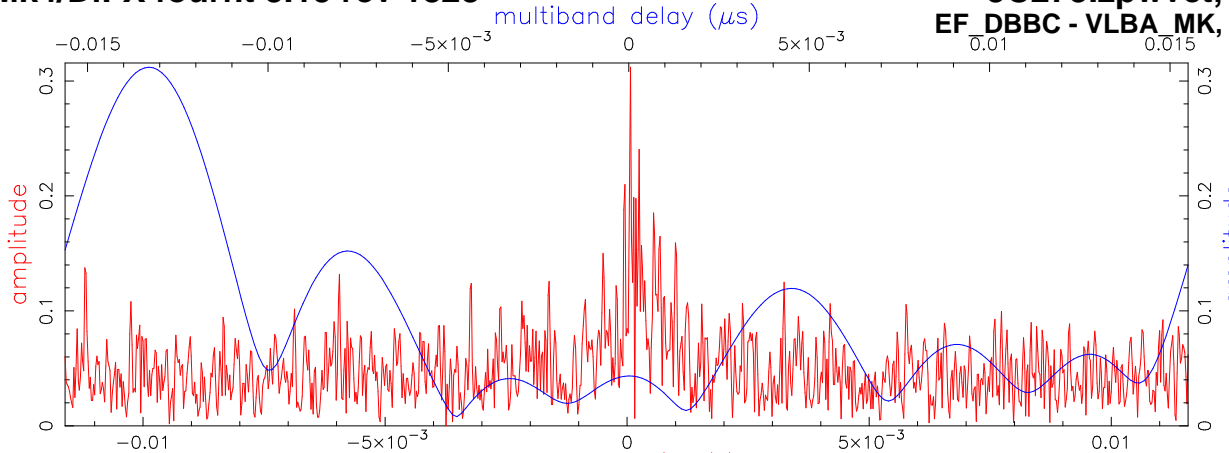
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-88.8	-76.3	-88.1	-84.6	-91.4	-81.9	-75.9	-99.9	Phase	-86.7
	0.1	0.1	0.5	0.4	0.3	0.5	0.2	0.3	Ampl.	0.3
	166.9	150.9	137.7	137.7	139.8	138.4	158.4	139.0	Sbd box	138.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	1.34253398990E+04	Apriori delay (usec)	1.34252505434E+04	Resid mbdelay (usec)	-4.39435E-03	+/-	2.3E-04
Sband delay (usec)	1.34253255849E+04	Apriori clock (usec)	-1.7713773E+00	Resid sbdelay (usec)	7.50415E-02	+/-	1.9E-03
Phase delay (usec)	1.34252505406E+04	Apriori clockrate (us/s)	-3.5806747E-07	Resid phdelay (usec)	-2.79615E-06	+/-	4.0E-07
Delay rate (us/s)	-7.39890572436E-01	Apriori rate (us/s)	-7.39890645692E-01	Resid rate (us/s)	7.32557E-08	+/-	2.9E-09
Total phase (deg)	-337.2	Apriori accel (us/s/s)	-7.07213243588E-05	Resid phase (deg)	-626.7	+/-	12.3

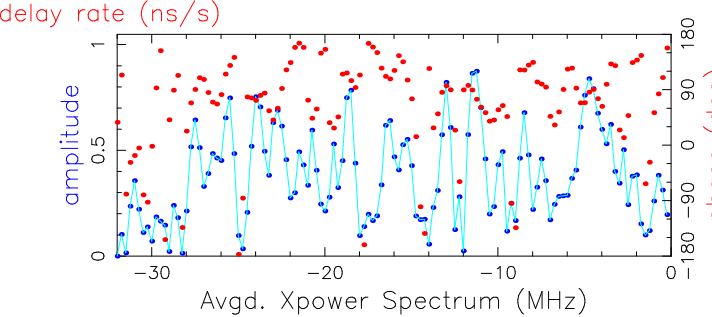
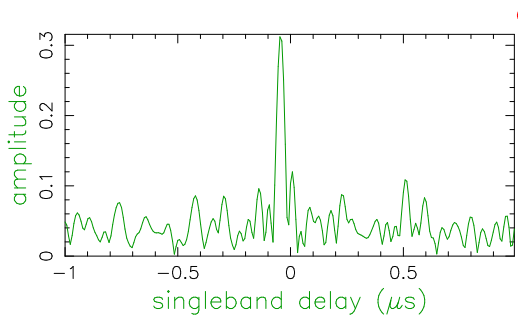
ph/seg (deg)	53.3	Theor.	29.5	Amplitude	0.310 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	61.6	Search (1024X32)	0.298	Apriori clock	0.298	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	8.7	Interp.	0.000	Apriori clockrate	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	42.6	Inc. seg. avg.	0.385	Apriori rate	0.291	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.291	Data rate(Mb/s):	1024	nlags:	128	dr window (ns/s)	-0.012 0.012
						t_cohere:	infinite	ion window (TEC)	0.00 0.00

f: az 126.5 el 47.8 pa -43.9 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4191.522 1316.369 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/fm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/fm.W.120.zpwwct

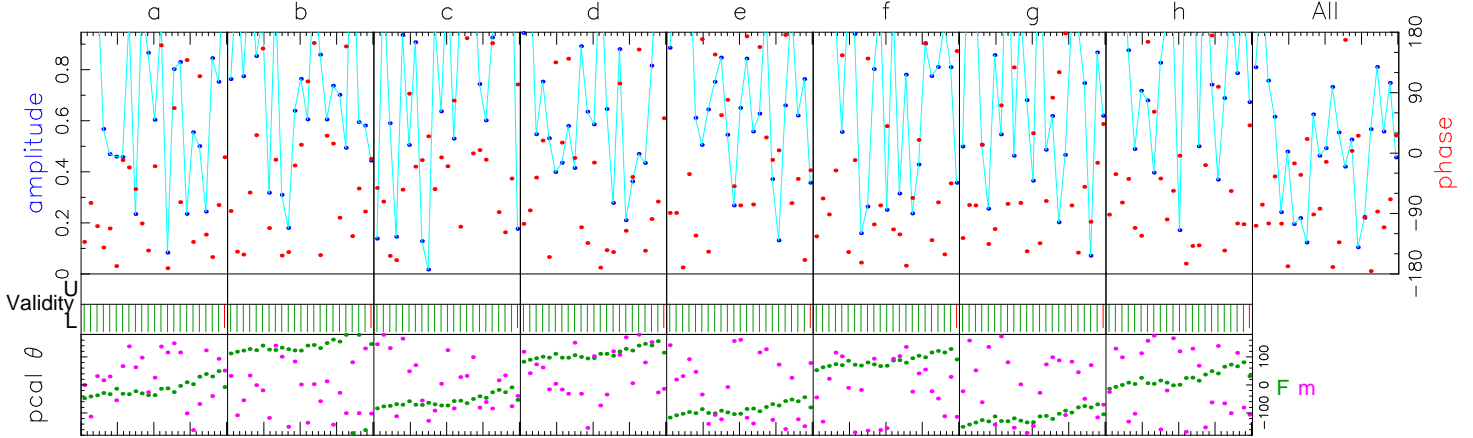


Fringe quality 9
SNR 9.5
Int time 239.895
Amp 0.316
Phase 88.4
PFD 3.3e-13
Delays (us)
SBD -0.043882
MBD -0.013282
Fringe rate (Hz) 0.005578
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022643
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

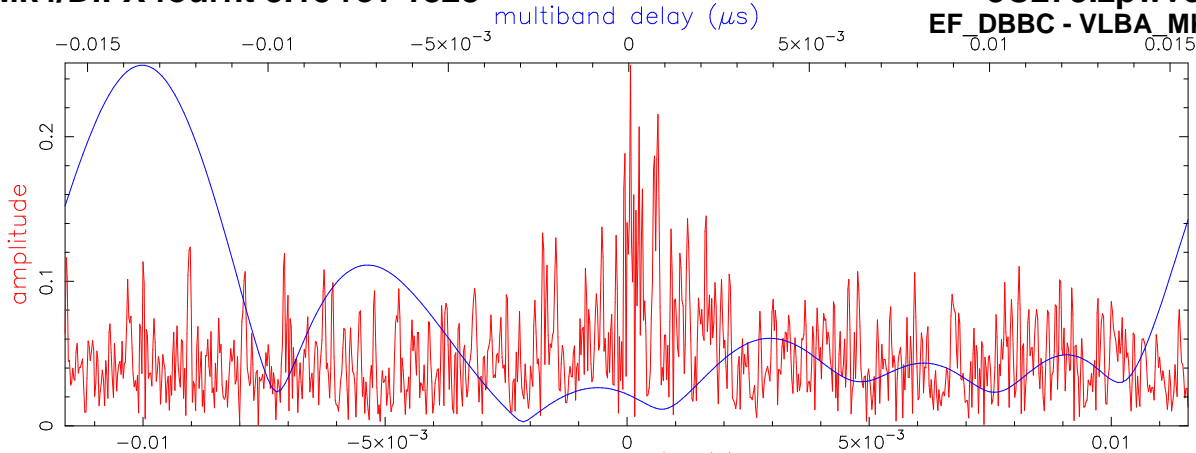


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	Phase	-91.6
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Amp.	0.3
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	123.4
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

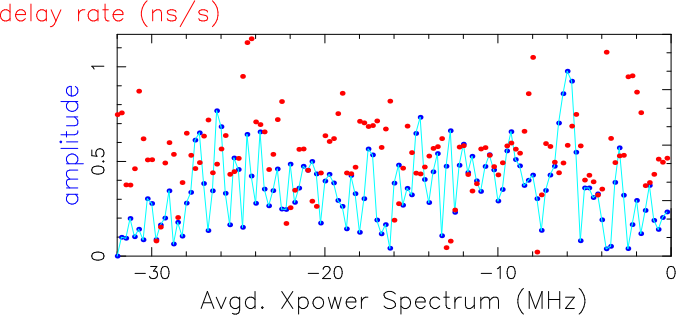
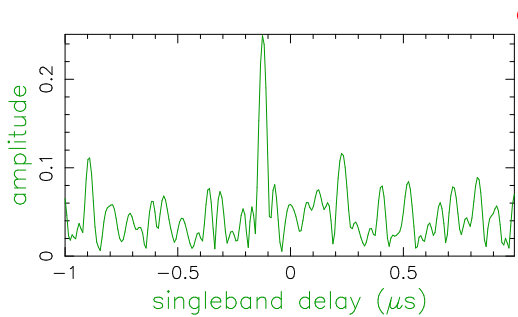
Group delay (usec)(sbd) 8.13532134134E+02 Apriori delay (usec) 8.13576666364E+02 Resid mbdelay (usec) -1.32822E-02 +/- 2.3E-04
 Sband delay (usec) 8.13532784364E+02 Apriori clock (usec) 2.7282021E+01 Resid sbdelay (usec) -4.38820E-02 +/- 1.8E-03
 Phase delay (usec) 8.13576663411E+02 Apriori clockrate (us/s) 3.8340011E-08 Resid phdelay (usec) -2.95232E-06 +/- 3.9E-07
 Delay rate (us/s) -2.41986880068E+00 Apriori rate (us/s) -2.41986886544E+00 Resid rate (us/s) 6.47565E-08 +/- 2.8E-09
 Total phase (deg) 103.1 Apriori accel (us/s/s) -2.50168220072E-06 Resid phase (deg) 88.4 +/- 12.1

RMS Theor. Amplitude 0.316 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 65.7 29.1 Search (1024X32) 0.303 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 102.5 50.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 19.2 17.1 Inc. seg. avg. 0.458 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 (%) 31.2 29.9 Inc. frq. avg. 0.312 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

F: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fm.W.89.zpwvct

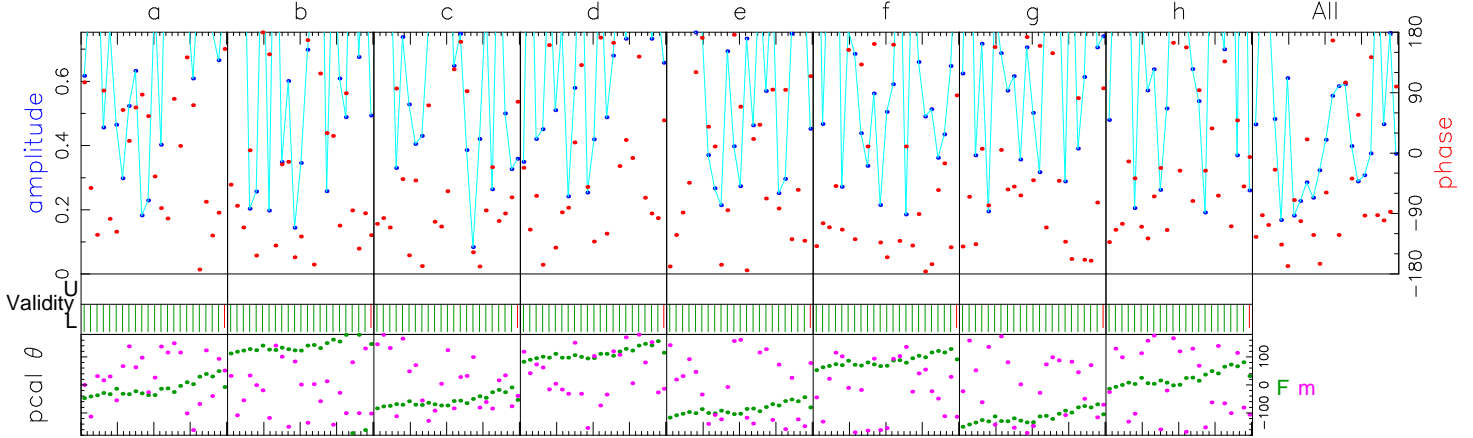


Fringe quality 9
 SNR 7.5
 Int time 239.895
 Amp 0.251
 Phase 611.9
 PFD 4.5e-06
 Delays (us)
 SBD -0.122896
 MBD -0.013514
 Fringe rate (Hz) 0.005563
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022644
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"



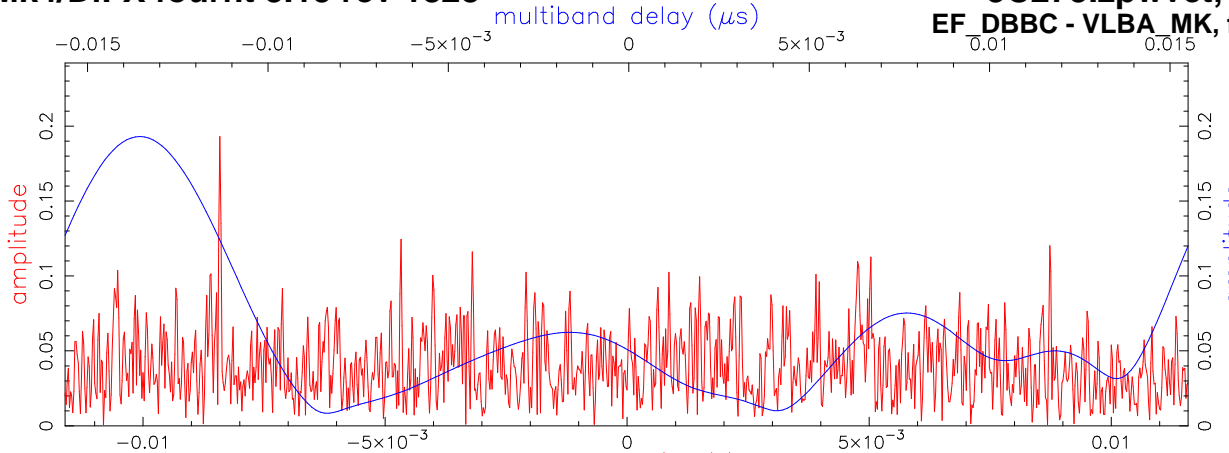
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		8.13438152572E+02		Apriori delay (usec)	8.13576666364E+02		Resid mbdelay (usec)	-1.35138E-02		+/- 2.9E-04
Sband delay (usec)		8.13453770364E+02		Apriori clock (usec)	2.7282021E+01		Resid sbdelay (usec)	-1.22896E-01		+/- 2.3E-03
Phase delay (usec)		8.13576662879E+02		Apriori clockrate (us/s)	3.8340011E-08		Resid phdelay (usec)	-3.48478E-06		+/- 4.9E-07
Delay rate (us/s)		-2.41986880086E+00		Apriori rate (us/s)	-2.41986886544E+00		Resid rate (us/s)	6.45809E-08		+/- 3.5E-09
Total phase (deg)		626.5		Apriori accel (us/s/s)	-2.50168220072E-06		Resid phase (deg)	611.9		+/- 15.2
ph/seg (deg)	RMS 75.4	Theor. 36.6	Amplitude 0.251 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	132.4	63.8	Search (1024X32) 0.245		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
ph/frq (deg)	18.5	21.6	Interp. 0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
amp/frq (%)	32.4	37.6	Inc. seg. avg. 0.398		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
			Inc. frq. avg. 0.243		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00	
					nlags: 128		t_cohere infinite			

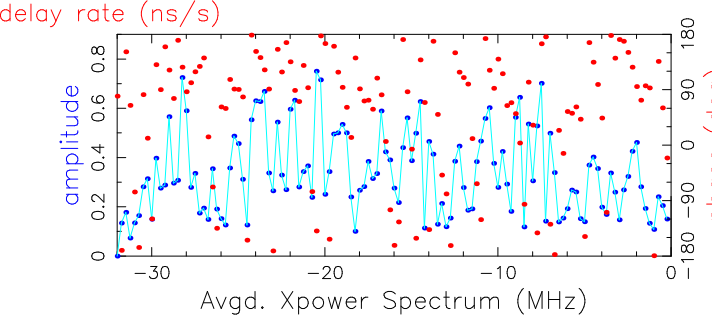
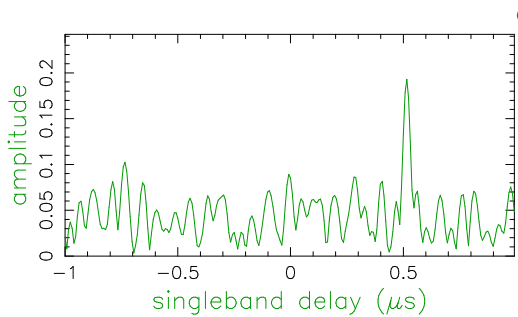
F: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fm.W.90.zpwvct



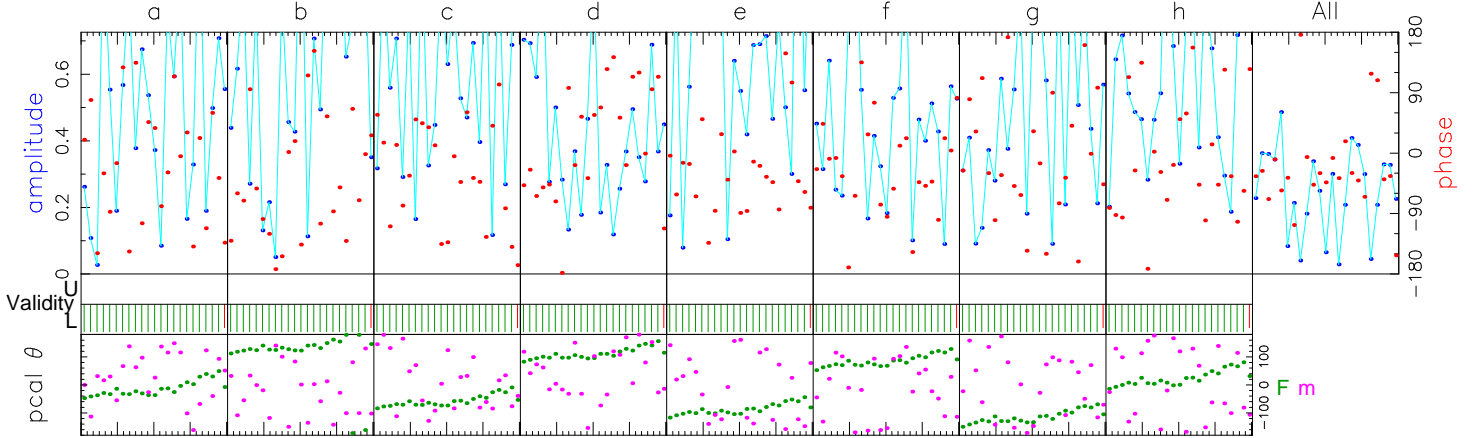
Fringe quality 0

SNR 5.8
Int time 239.895
Amp 0.242
Phase -3098.3
PFD 3.6e-01
Delays (us)
SBD 0.514897
MBD -0.013559
Fringe rate (Hz)
-0.724049
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022645
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

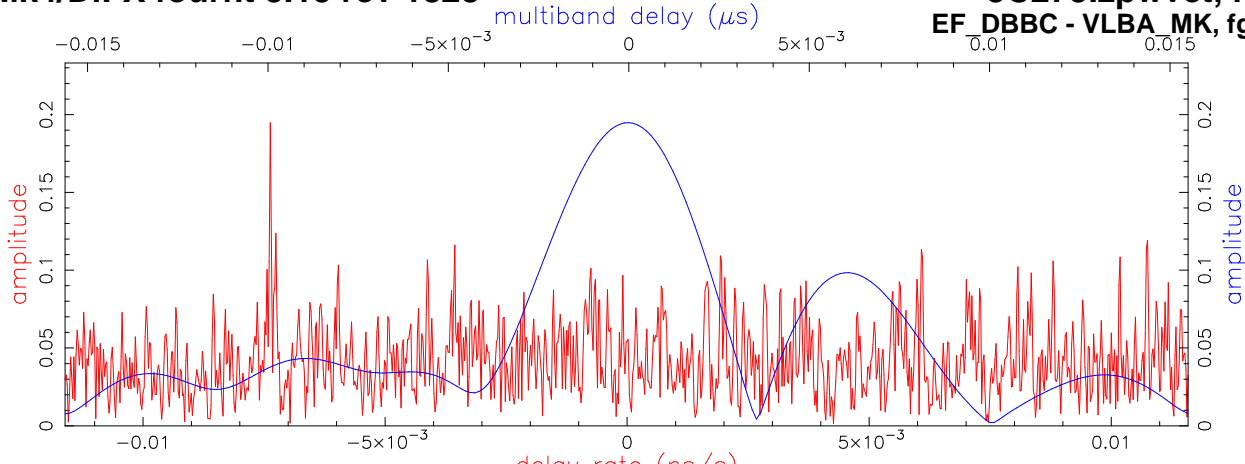


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.4	-70.1	-34.9	-2.5	-45.0	-21.7	-33.7	-55.2	Phase	-38.3
	0.2	0.3	0.2	0.2	0.5	0.3	0.2	0.2	Ampl.	0.2
	16.8	63.4	153.8	165.9	195.3	253.6	10.5	10.1	Sbd box	194.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd) 8.14094357715E+02 Apriori delay (usec) 8.13576666364E+02 Resid mbdelay (usec) -1.35586E-02 +/- 3.8E-04
 Sband delay (usec) 8.14091562864E+02 Apriori clock (usec) 2.7282021E+01 Resid sbdelay (usec) 5.14897E-01 +/- 3.0E-03
 Phase delay (usec) 8.13576665130E+02 Apriori clockrate (us/s) 3.8340011E-08 Resid phdelay (usec) -1.23347E-06 +/- 6.4E-07
 Delay rate (us/s) -2.41987727094E+00 Apriori rate (us/s) -2.41986886544E+00 Resid rate (us/s) -8.40550E-06 +/- 4.6E-09
 Total phase (deg) -3083.6 Apriori accel (us/s/s) -2.50168220072E-06 Resid phase (deg) -3098.3 +/- 19.8

RMS 63.3 Theor. 47.5 Amplitude 0.242 +/- 0.042 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.3 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 23.8 Inc. seg. avg. 0.232 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 (%) 46.6 Inc. frq. avg. 0.229 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

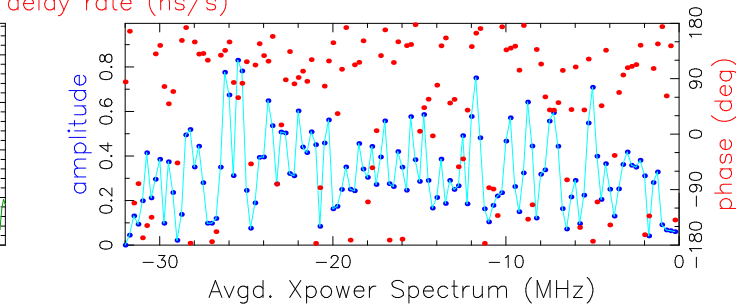
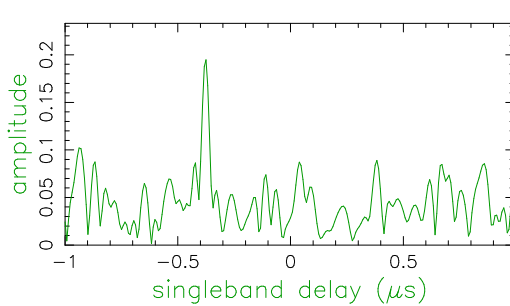
F: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fm.W.91.zpwvct



Fringe quality 0

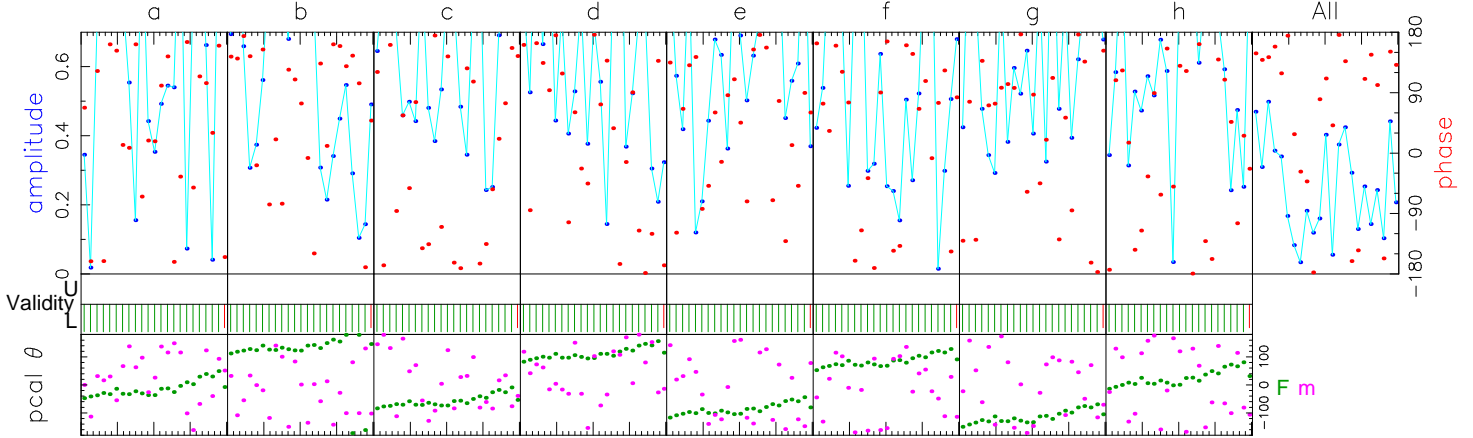
SNR 5.9
Int time 239.895
Amp 0.233
Phase 2303.2
PFD 2.3e-01
Delays (us)
SBD -0.377349
MBD 0.000008
Fringe rate (Hz)
-0.634491
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022646
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"



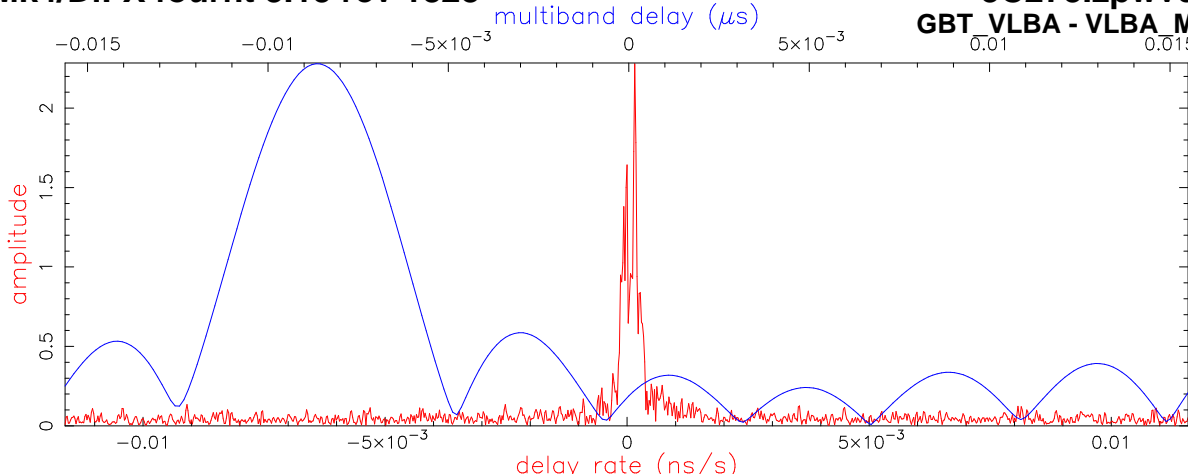
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	143.2	143.2
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	0.2
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	80.7
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
F:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	8.13201674051E+02		Apriori delay (usec)		8.13576666364E+02		Resid mbdelay (usec)		7.68730E-06	+/- 3.7E-04
Sband delay (usec)	8.13199317864E+02		Apriori clock (usec)		2.7282021E+01		Resid sbdelay (usec)		-3.77349E-01	+/- 2.9E-03
Phase delay (usec)	8.13576670980E+02		Apriori clockrate (us/s)		3.8340011E-08		Resid phdelay (usec)		4.61627E-06	+/- 6.3E-07
Delay rate (us/s)	-2.41987623126E+00		Apriori rate (us/s)		-2.41986886544E+00		Resid rate (us/s)		-7.36582E-06	+/- 4.5E-09
Total phase (deg)	2317.8		Apriori accel (us/s/s)		-2.50168220072E-06		Resid phase (deg)		2303.2	+/- 19.5

ph/seg (deg) 68.7 46.7 Search (1024X32) 0.189 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.9 81.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.3 27.5 Inc. seg. avg. 0.225 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 25.9 48.1 Inc. frq. avg. 0.222 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 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 5

SNR 68.3

Int time 238.983

Amp 2.284

Phase -136.0

PFD 0.0e+00

Delays (us)

SBD -0.009131

MBD -0.008634

Fringe rate (Hz) 0.013127

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044001.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

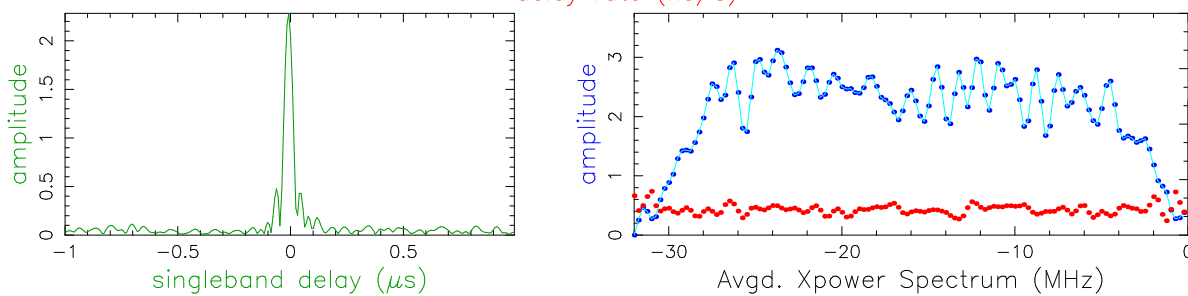
2017:215:023021

2017:188:152524

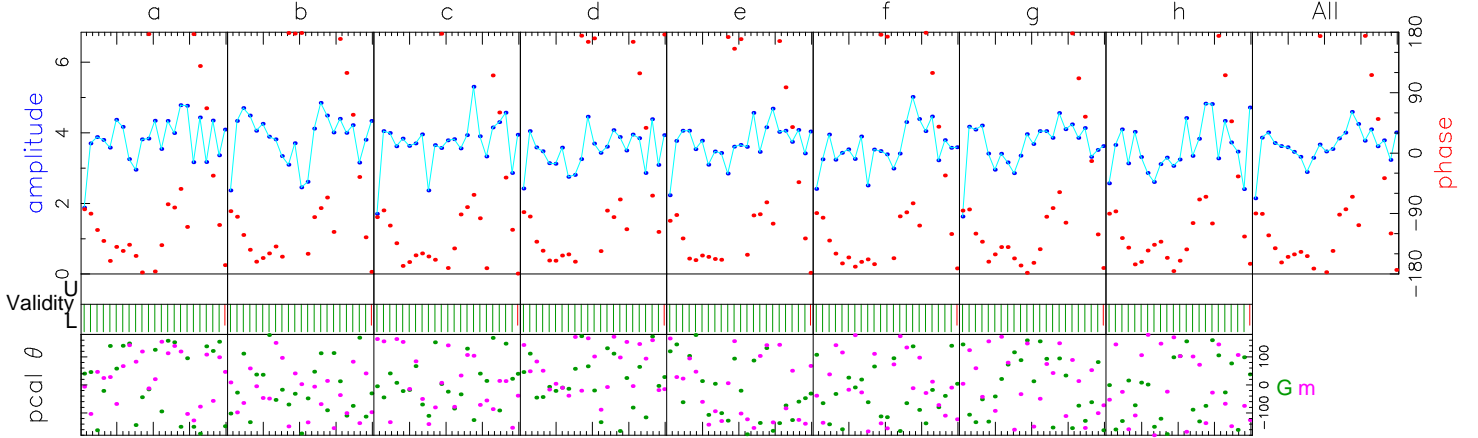
RA & Dec (J2000)

12h29m 6.6997s

+2° 03' 8.598"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



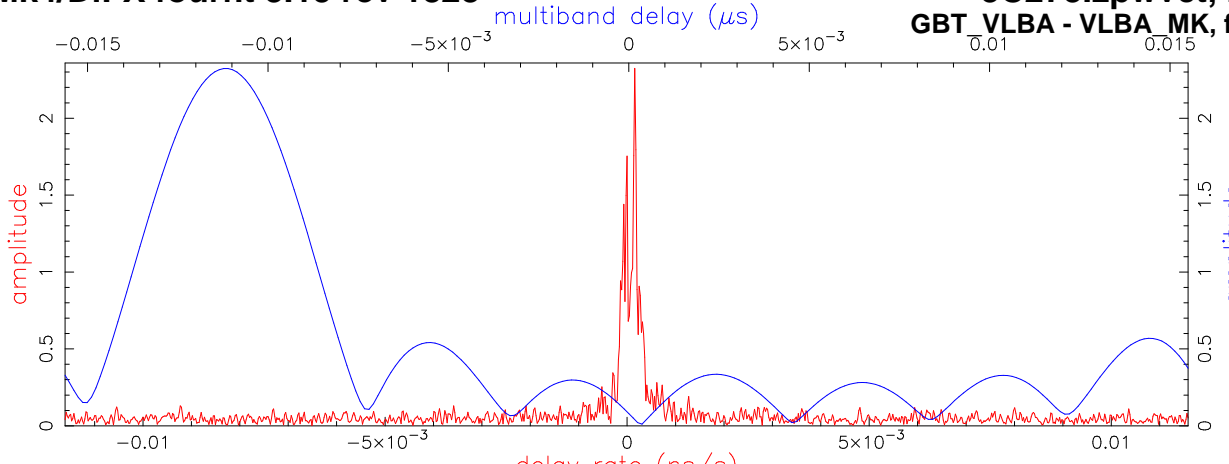
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-131.2	-138.0	-132.5	-141.1	-141.2	-140.0	-132.7	-131.5	Phase	-136.0
2.4	2.4	2.2	2.2	2.2	2.3	2.2	2.3	Ampl.	2.3
127.7	127.9	127.9	127.7	127.8	127.9	127.9	127.8	Sbd box	127.8
U/L 0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	

Group delay (usec)(sbd)	1.45096528876E+04	Apriori delay (usec)	1.45096615216E+04	Resid mbdelay (usec)	-8.63403E-03	+/-	3.2E-05
Sband delay (usec)	1.45096523906E+04	Apriori clock (usec)	-1.2281154E+01	Resid sbdelay (usec)	-9.13100E-03	+/-	2.5E-04
Phase delay (usec)	1.45096615172E+04	Apriori clockrate (us/s)	2.9474009E-07	Resid phdelay (usec)	-4.38591E-06	+/-	5.4E-08
Delay rate (us/s)	-1.28033526692E+00	Apriori rate (us/s)	-1.28033541931E+00	Resid rate (us/s)	1.52389E-07	+/-	3.9E-10
Total phase (deg)	33.4	Apriori accel (us/s/s)	-7.61127368430E-05	Resid phase (deg)	-136.0	+/-	1.7

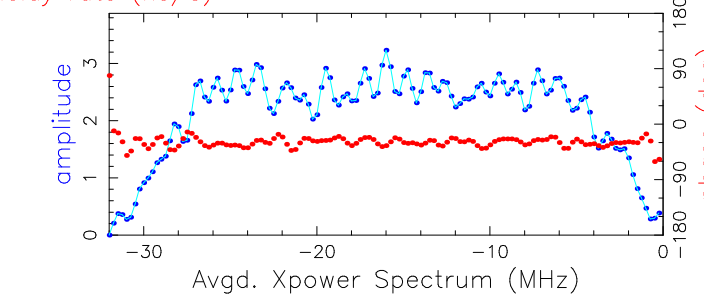
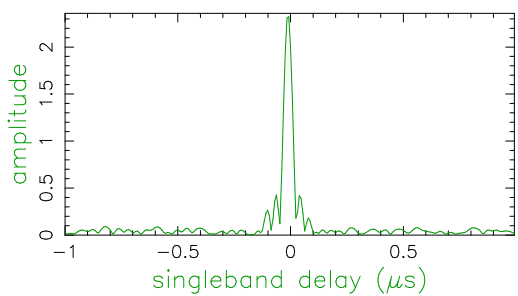
ph/seg (deg)	58.3	Theor.	4.0	Amplitude	2.284 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	63.0	Search (1024X32)	0.000	Apriori clock (usec)	2.225	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	4.8	Interp.	0.000	Apriori clockrate (us/s)	2.9474009E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	3.5	Inc. seg. avg.	3.632	Apriori rate (us/s)	-1.28033541931E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	2.284	Apriori accel (us/s/s)	-7.61127368430E-05	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

G: az 165.7 el 52.7 pa -10.7 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 7284.906 2291.135 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Gm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Gm.W.289.zpwvct

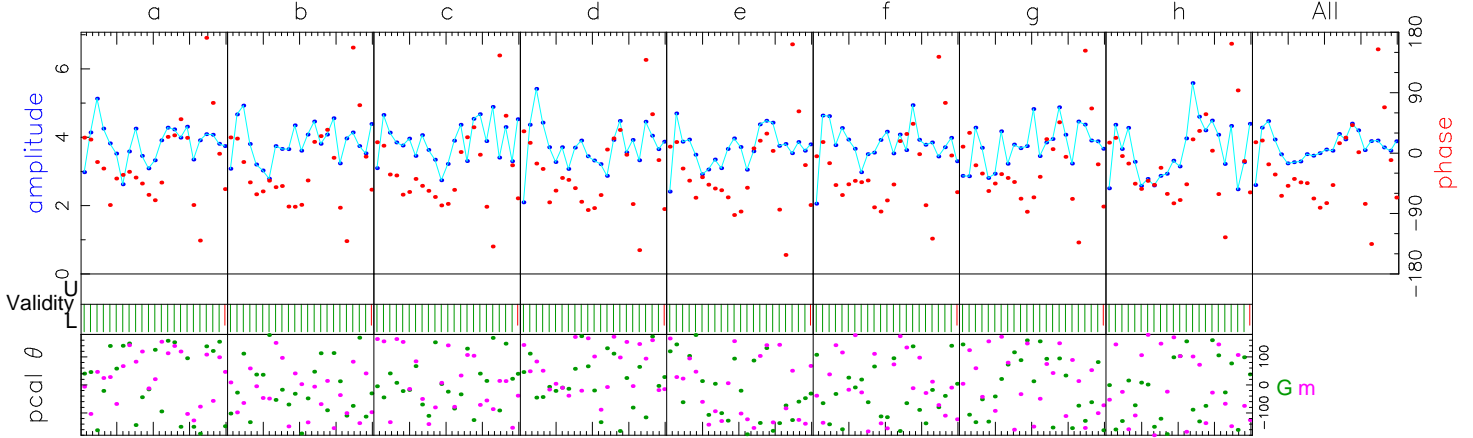


Fringe quality 5
SNR 70.5
Int time 238.983
Amp 2.359
Phase -28.6
PFD 0.0e+00
Delays (us)
SBD -0.011362
MBD -0.011184
Fringe rate (Hz) 0.013052
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044001.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:023022
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-20.0	-30.3	-33.4	-31.1	-34.4	-30.3	-28.9	-20.3	Phase	-28.6
	2.4	2.4	2.5	2.3	2.2	2.4	2.3	2.2	Ampl.	2.3
	127.4	127.5	127.5	127.6	127.4	127.7	127.7	127.5	Sbd box	127.5
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.45096503377E+04		Apriori delay (usec)		1.45096615216E+04		Resid mbdelay (usec)	-1.11839E-02	+/- 3.1E-05
Sband delay (usec)		1.45096501596E+04		Apriori clock (usec)		-1.2281154E+01		Resid sbdelay (usec)	-1.13620E-02	+/- 2.4E-04
Phase delay (usec)		1.45096615207E+04		Apriori clockrate (us/s)		2.9474009E-07		Resid phdelay (usec)	-9.23214E-07	+/- 5.2E-08
Delay rate (us/s)		-1.28033526779E+00		Apriori rate (us/s)		-1.28033541931E+00		Resid rate (us/s)	1.51524E-07	+/- 3.8E-10
Total phase (deg)			140.7	Apriori accel (us/s/s)		-7.61127368430E-05		Resid phase (deg)	-28.6	+/- 1.6

ph/seg (deg) 59.1 3.9
amp/seg (%) 60.4 6.8
ph/frq (deg) 5.9 2.3
amp/frq (%) 3.8 4.0

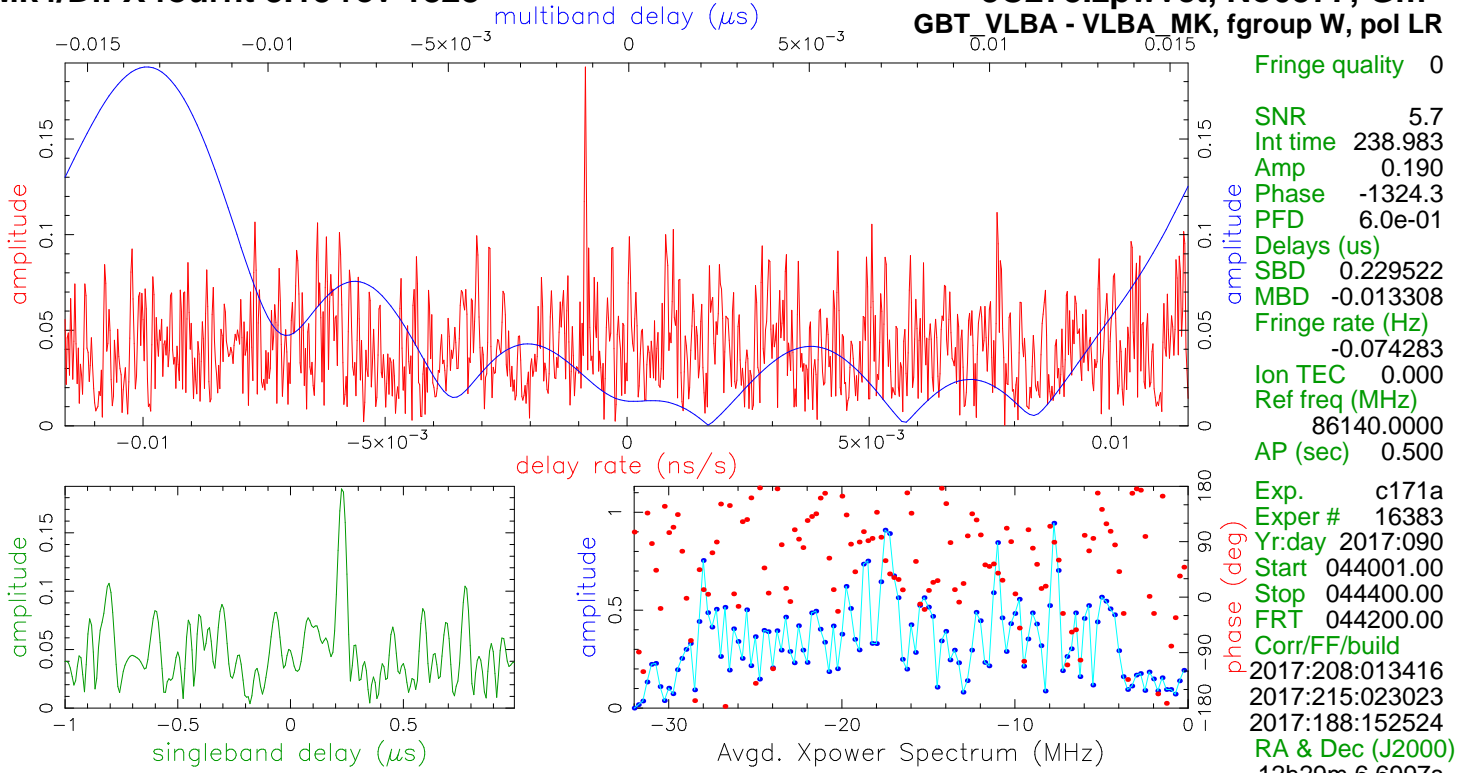
RMS Theor. Amplitude 2.359 +/- 0.033
Search (1024X32) 2.209
Interp. 0.000
Inc. seg. avg. 3.713
Inc. frq. avg. 2.331

U/L Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
G Pcal rate: 0.000E+00, 0.000E+00 (us/s)
m Bits/sample: 2x2 SampCntNorm: enabled
G 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

G: az 165.7 el 52.7 pa -10.7 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 7284.906 2291.135 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Gm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Gm.W.290.zpwvct



Fringe quality 0

SNR 5.7

Int time 238.983

Amp 0.190

Phase -1324.3

PFD 6.0e-01

Delays (us)

SBD 0.229522

MBD -0.013308

Fringe rate (Hz)

-0.074283

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044001.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

2017:215:023023

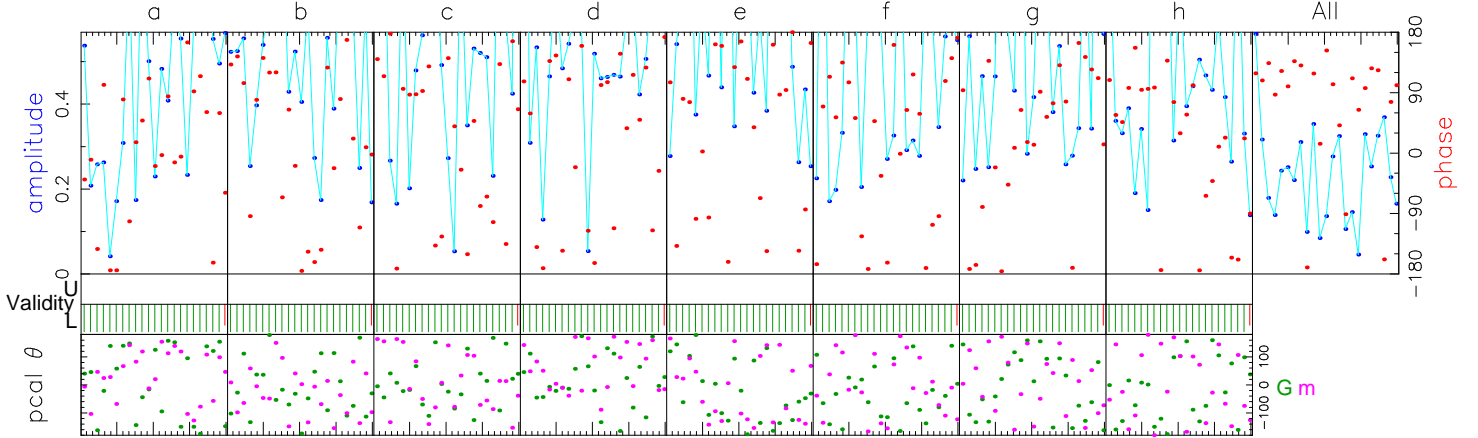
2017:188:152524

RA & Dec (J2000)

12h29m 6.6997s

+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	46.7	119.9	132.1	135.8	144.7	103.8	99.9	96.8	Phase	115.7
	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.2	Ampl.	0.2
	179.4	90.9	14.1	177.2	178.6	51.8	227.9	176.5	Sbd box	158.4
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.45098982133E+04		Apriori delay (usec)		1.45096615216E+04		Resid mbdelay (usec)		-1.33083E-02	+/- 3.8E-04
Sband delay (usec)	1.45098910441E+04		Apriori clock (usec)		-1.2281154E+01		Resid sbdelay (usec)		2.29522E-01	+/- 3.0E-03
Phase delay (usec)	1.45096615253E+04		Apriori clockrate (us/s)		2.9474009E-07		Resid phdelay (usec)		3.73140E-06	+/- 6.5E-07
Delay rate (us/s)	-1.28033628166E+00		Apriori rate (us/s)		-1.28033541931E+00		Resid rate (us/s)		-8.62353E-07	+/- 4.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.61127368430E-05		Resid phase (deg)		-1324.3	+/- 20.2

ph/seg (deg) 51.7 48.5 Search (1024X32) 0.183 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

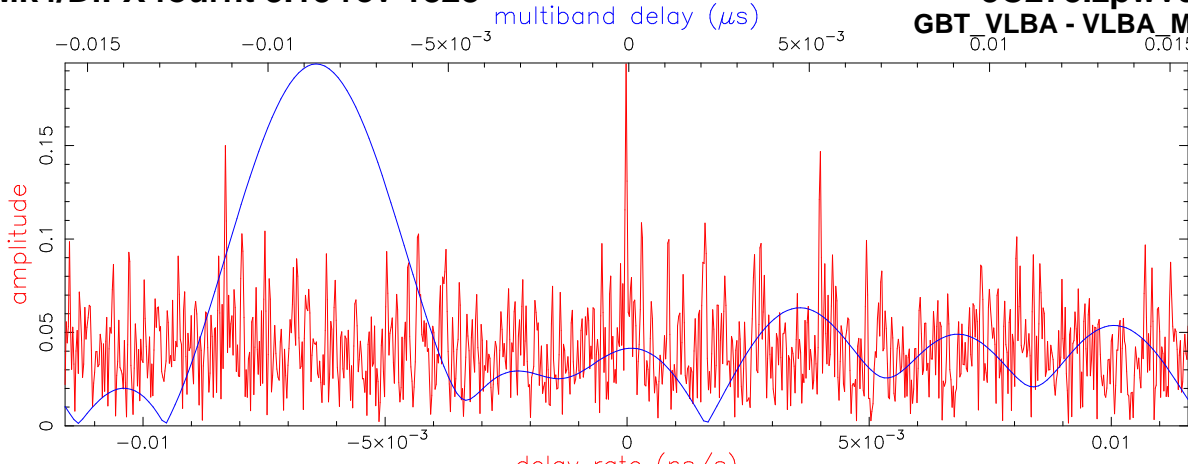
amp/seg (%) 66.7 84.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 34.3 28.6 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

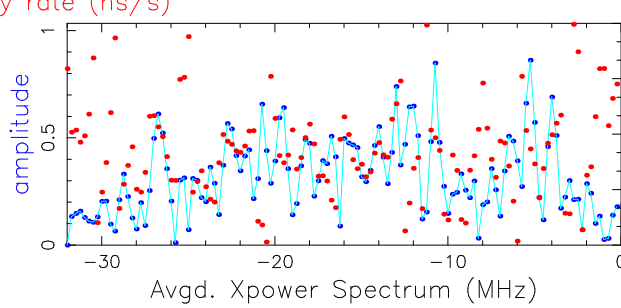
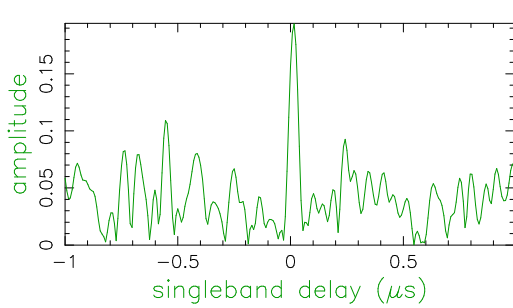
amp/frq (%) 27.1 50.0 Inc. frq. avg. 0.187 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 165.7 el 52.7 pa -10.7 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 7284.906 2291.135 ion window (TEC) 0.00 0.00

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Gm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Gm.W.291.zpwvct simultaneous interpolator

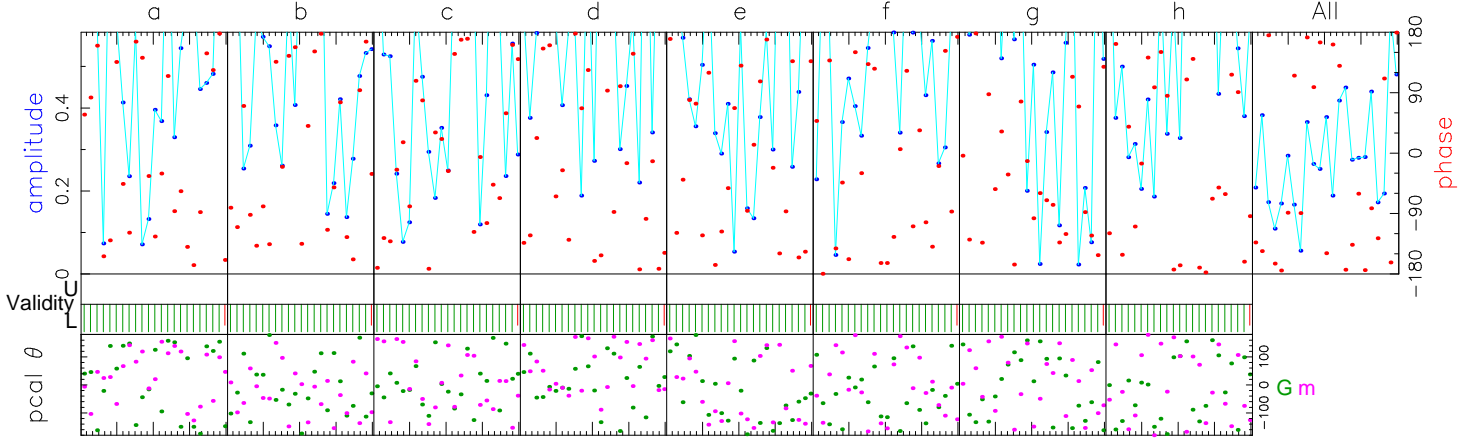


Fringe quality 0
SNR 5.8
Int time 238.983
Amp 0.194
Phase -345.4
PFD 3.3e-01
Delays (us)
SBD 0.014004
MBD -0.008674
Fringe rate (Hz)
-0.002180
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044001.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:023024
2017:188:152524
RA & Dec (J2000)
12h29m 6.6995"
+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

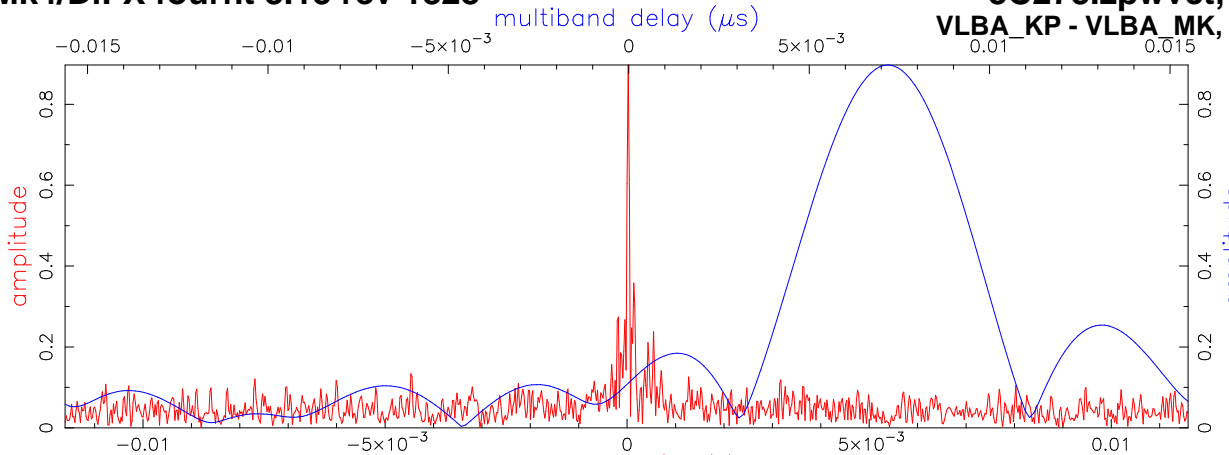


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-176.7	-156.9	-163.0	-157.5	-169.8	-172.0	-109.2	-178.6	Phase	-165.4
	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	Ampl.	0.2
	34.9	62.4	233.5	166.0	204.1	123.9	184.8	173.2	Sbd box	130.8
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

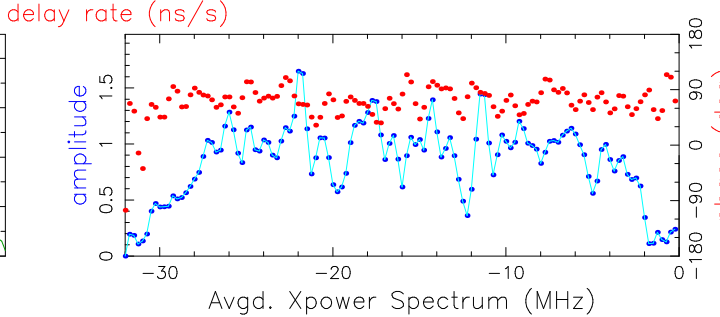
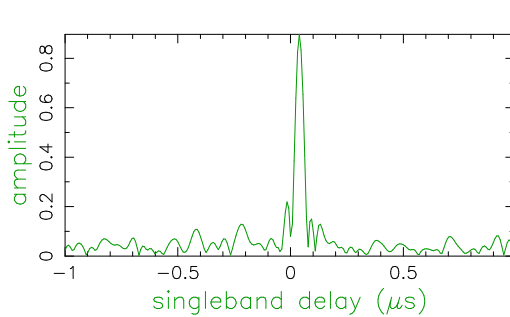
Group delay (usec)(sbd)	1.45096840973E+04	Apriori delay (usec)	1.45096615216E+04	Resid mbdelay (usec)	-8.67425E-03	+/-	3.7E-04
Sband delay (usec)	1.45096755251E+04	Apriori clock (usec)	-1.2281154E+01	Resid sbdelay (usec)	1.40035E-02	+/-	3.0E-03
Phase delay (usec)	1.45096615163E+04	Apriori clockrate (us/s)	2.9474009E-07	Resid phdelay (usec)	-5.33268E-06	+/-	6.4E-07
Delay rate (us/s)	-1.28033544462E+00	Apriori rate (us/s)	-1.28033541931E+00	Resid rate (us/s)	-2.53062E-08	+/-	4.6E-09
Total phase (deg)	-176.0	Apriori accel (us/s/s)	-7.61127368430E-05	Resid phase (deg)	-345.4	+/-	19.7

ph/seg (deg)	52.9	RMS	52.9	Theor.	47.3	Amplitude	0.194 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	83.7	Search (1024X32)	0.192	Interp.	0.000	Apriori clockrate (us/s)	2.9474009E-07	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	24.7	Inc. seg. avg.	0.214	Inc. frq. avg.	0.180	Apriori rate (us/s)	-1.28033541931E+00	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	25.0	Inc. frq. avg.	0.180	u,v (fr/asec)	7284.906 2291.135	Apriori accel (us/s/s)	-7.61127368430E-05	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016

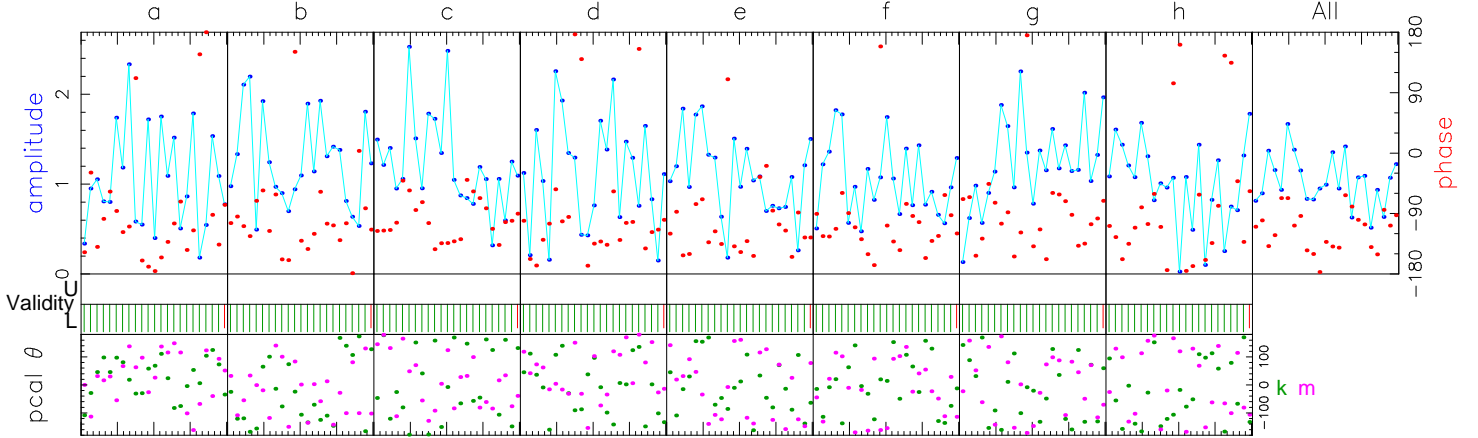
G: az 165.7 el 52.7 pa -10.7 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 7284.906 2291.135 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Gm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Gm.W.292.zpwvct



Fringe quality 8
 SNR 26.9
 Int time 239.986
 Amp 0.897
 Phase -291.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.039306
 MBD 0.007182
 Fringe rate (Hz) 0.001109
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022739
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

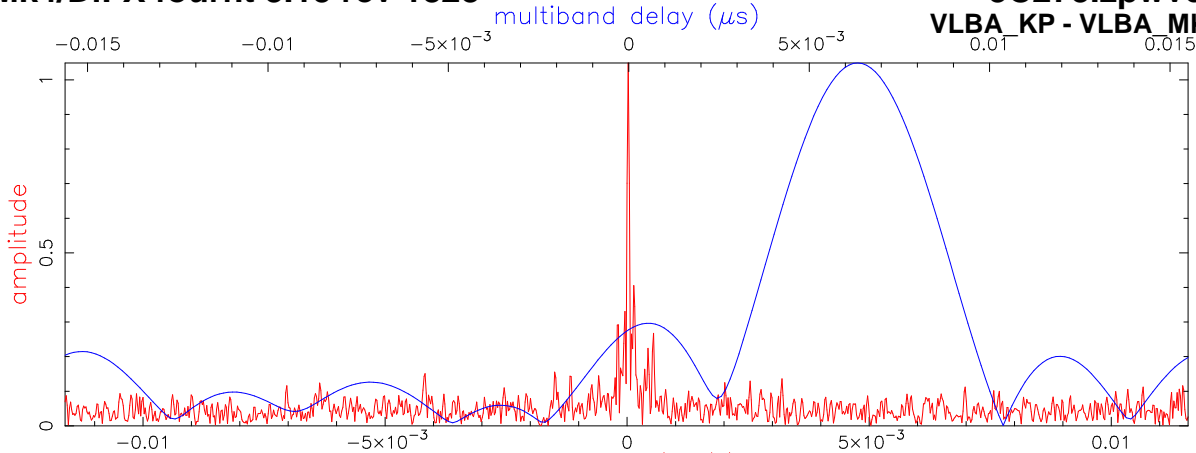


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

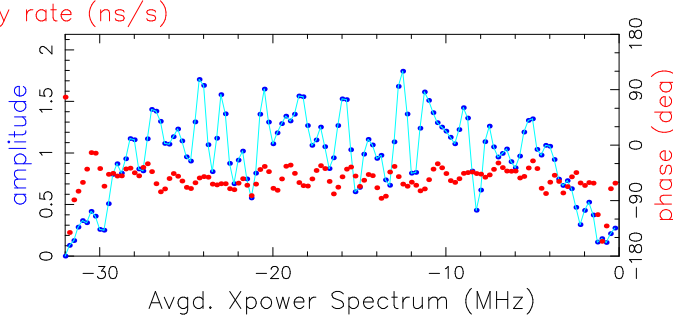
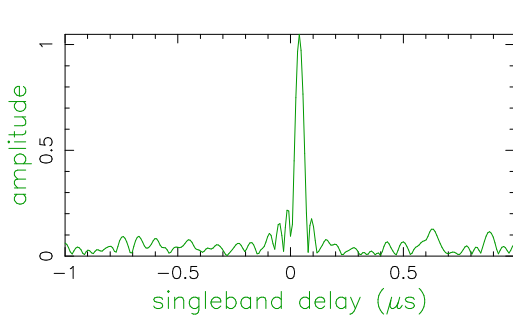


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-119.9	-108.3	-100.9	-117.1	-116.3	-114.7	-105.7	-115.8	Phase	-111.7
	0.8	1.0	1.1	0.9	0.9	0.9	1.0	0.7	Ampl.	0.9
	134.3	133.9	133.9	134.1	134.3	133.6	133.9	134.6	Sbd box	134.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.18025513802E+04		Apriori delay (usec)		1.18025129483E+04		Resid mbdelay (usec)		7.18190E-03	+/- 8.1E-05
Sband delay (usec)	1.18025522548E+04		Apriori clock (usec)		-4.0829430E+00		Resid sbdelay (usec)		3.93065E-02	+/- 6.4E-04
Phase delay (usec)	1.18025129447E+04		Apriori clockrate (us/s)		6.0720932E-08		Resid phdelay (usec)		-3.60102E-06	+/- 1.4E-07
Delay rate (us/s)	-6.07266570423E-01		Apriori rate (us/s)		-6.07266583296E-01		Resid rate (us/s)		1.28729E-08	+/- 9.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-6.20288434628E-05		Resid phase (deg)		-291.7	+/- 4.3

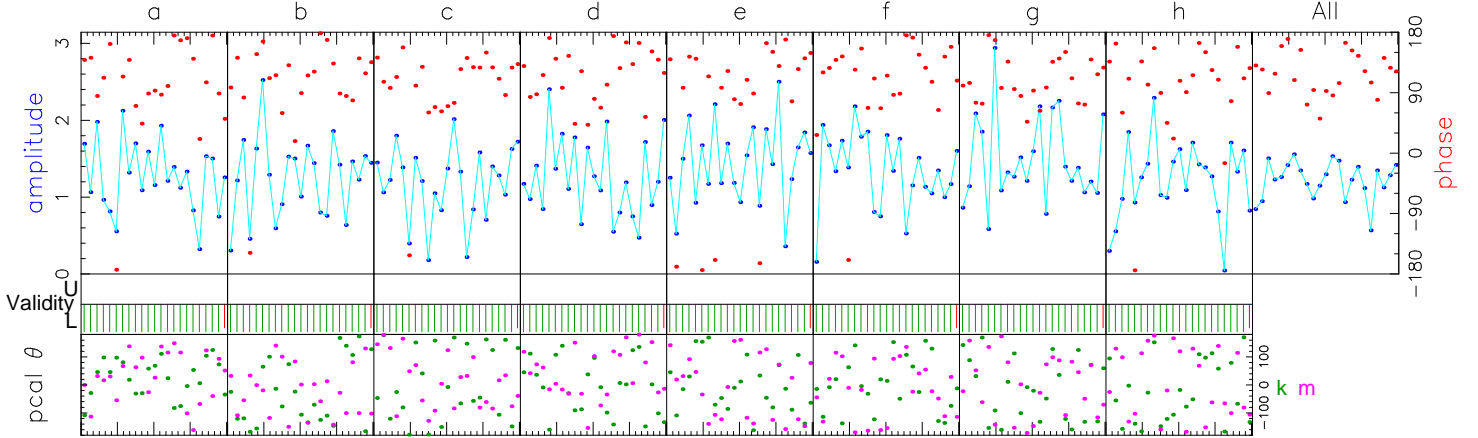
ph/seg (deg) 30.4 10.2 Theor. Amplitude 0.897 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 34.5 17.8 Search (1024X32) 0.825 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.2 6.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 13.4 10.5 Inc. seg. avg. 1.022 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 k: az 120.0 el 41.6 pa -47.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 3437.562 1514.668 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/km..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/km.W.141.zpwvct simultaneous interpolator



Fringe quality 8
 SNR 31.4
 Int time 239.986
 Amp 1.049
 Phase -62.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.039178
 MBD 0.006344
 Fringe rate (Hz) 0.001342
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022741
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"



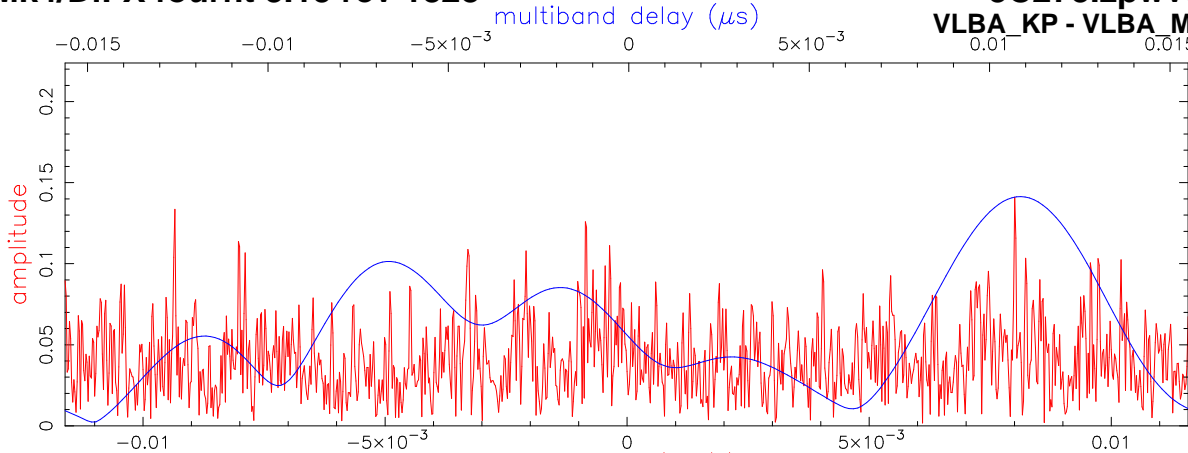
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	115.3	119.6	113.1	110.7	133.2	123.0	108.7	116.3	Phase	117.7
	1.0	1.0	1.0	1.0	1.2	1.1	1.2	1.0	Ampl.	1.1
	133.8	134.1	133.9	134.0	134.2	134.0	134.0	133.9	Sbd box	134.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.18025505418E+04		Apriori delay (usec)		1.18025129483E+04		Resid mbdelay (usec)		6.34353E-03	+/- 6.9E-05
Sband delay (usec)	1.18025521263E+04		Apriori clock (usec)		-4.0829430E+00		Resid sbdelay (usec)		3.91780E-02	+/- 5.5E-04
Phase delay (usec)	1.18025129521E+04		Apriori clockrate (us/s)		6.0720932E-08		Resid phdelay (usec)		3.79403E-06	+/- 1.2E-07
Delay rate (us/s)	-6.07266567721E-01		Apriori rate (us/s)		-6.07266583296E-01		Resid rate (us/s)		1.55749E-08	+/- 8.5E-10
Total phase (deg)	68.8		Apriori accel (us/s/s)		-6.20288434628E-05		Resid phase (deg)		-62.3	+/- 3.6

ph/seg (deg) 31.2 8.7 Theor. Amplitude 1.049 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 28.2 15.3 Search (1024X32) 0.989 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.5 5.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 9.2 9.0 Inc. seg. avg. 1.208 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. 1.054 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

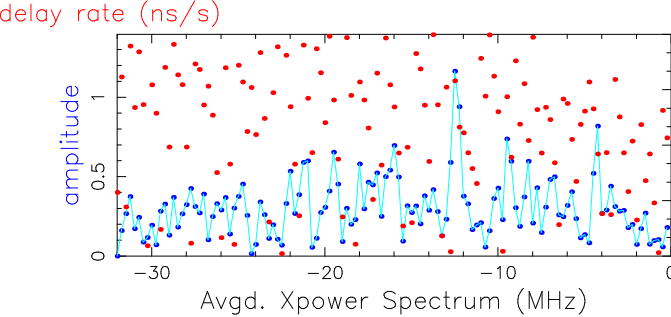
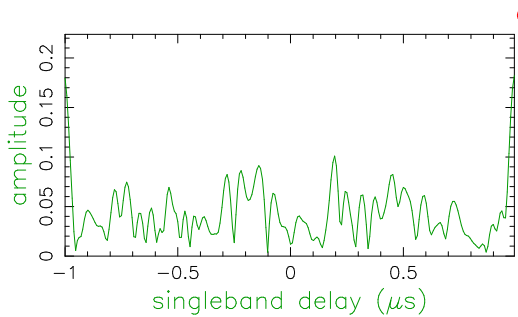
k: az 120.0 el 41.6 pa -47.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 3437.562 1514.668 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/km..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/km.W.142.zpwvct



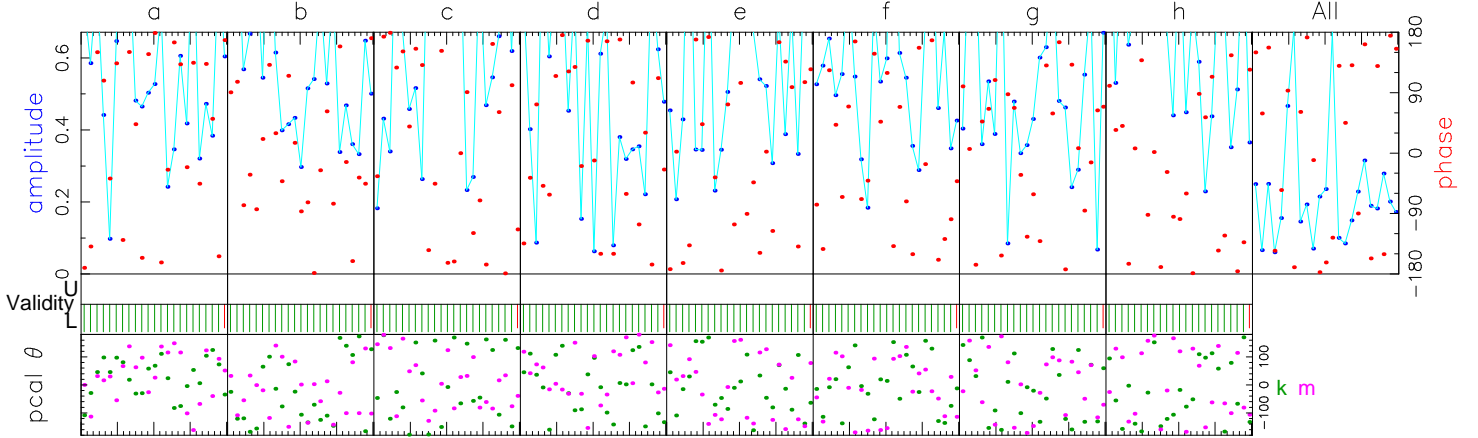
Fringe quality 0

SNR 5.5
Int time 239.986
Amp 0.224
Phase -5401.9
PFD 9.3e-01
Delays (us)
SBD 0.993164
MBD 0.010681
Fringe rate (Hz) 0.689341
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022742
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

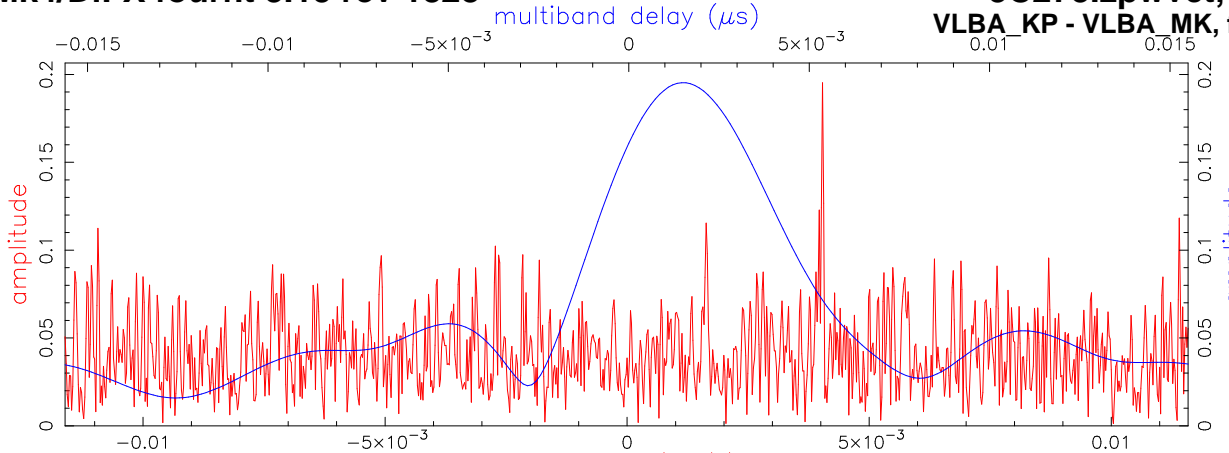


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
168.0	-13.8	179.2	-177.9	-179.3	-164.3	102.0	-160.1	Phase	178.1
0.4	0.1	0.3	0.2	0.3	0.2	0.1	0.1	Ampl.	0.2
254.2	251.4	237.3	191.6	100.8	169.7	10.7	28.4	Sbd box	256.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	

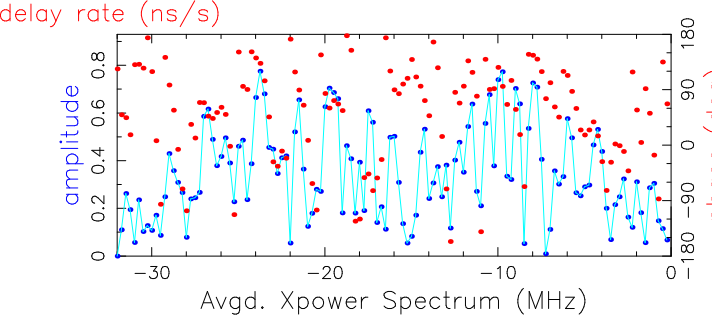
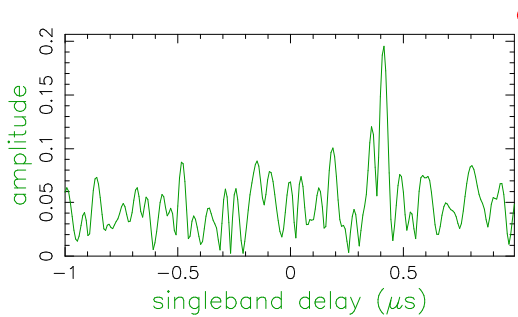
Group delay (usec)(sbd) 1.18034923789E+04 Apriori delay (usec) 1.18025129483E+04 Resid mbdelay (usec) 1.06807E-02 +/- 4.0E-04
 Sband delay (usec) 1.18035061120E+04 Apriori clock (usec) -4.0829430E+00 Resid sbdelay (usec) 9.93164E-01 +/- 3.1E-03
 Phase delay (usec) 1.18025129540E+04 Apriori clockrate (us/s) 6.0720932E-08 Resid phdelay (usec) 5.74403E-06 +/- 6.8E-07
 Delay rate (us/s) -6.07258580726E-01 Apriori rate (us/s) -6.07266583296E-01 Resid rate (us/s) 8.00257E-06 +/- 4.9E-09
 Total phase (deg) -5270.7 Apriori accel (us/s/s) -6.20288434628E-05 Resid phase (deg) -5401.9 +/- 21.0

RMS Theor. Amplitude 0.224 +/- 0.041 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 73.2 50.2 Search (1024X32) 0.179 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 94.0 87.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 76.3 29.6 Inc. seg. avg. 0.207 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 (%) 49.1 51.7 Inc. frq. avg. 0.189 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 120.0 el 41.6 pa -47.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 3437.562 1514.668 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/km..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/km.W.143.zpwvct

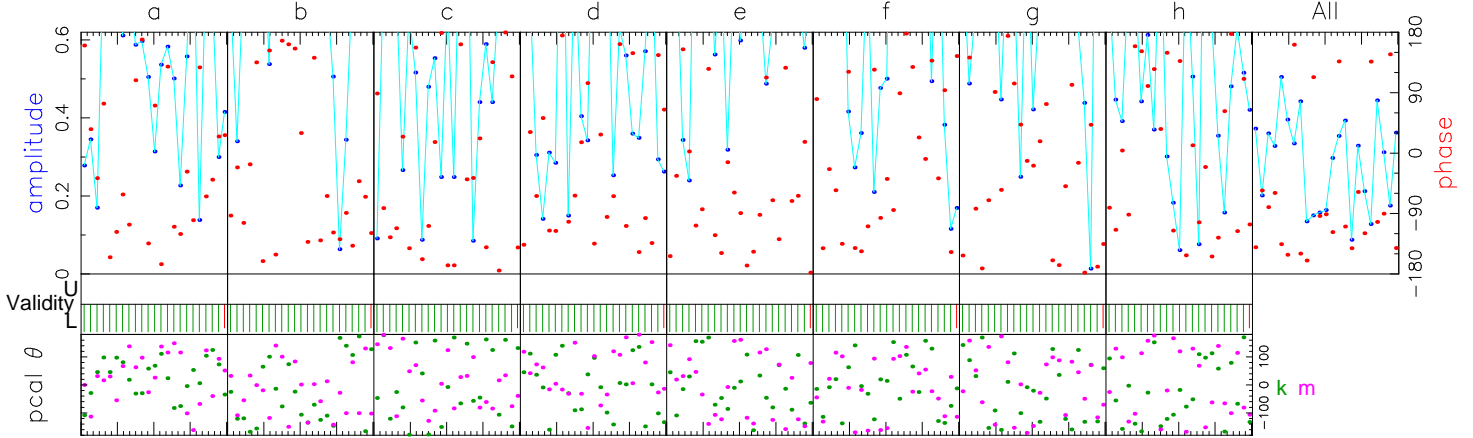


Fringe quality 0
 SNR 5.9
 Int time 239.986
 Amp 0.207
 Phase -2466.4
 PFD 2.3e-01
 Delays (us)
 SBD 0.412091
 MBD 0.001472
 Fringe rate (Hz)
 0.348339
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

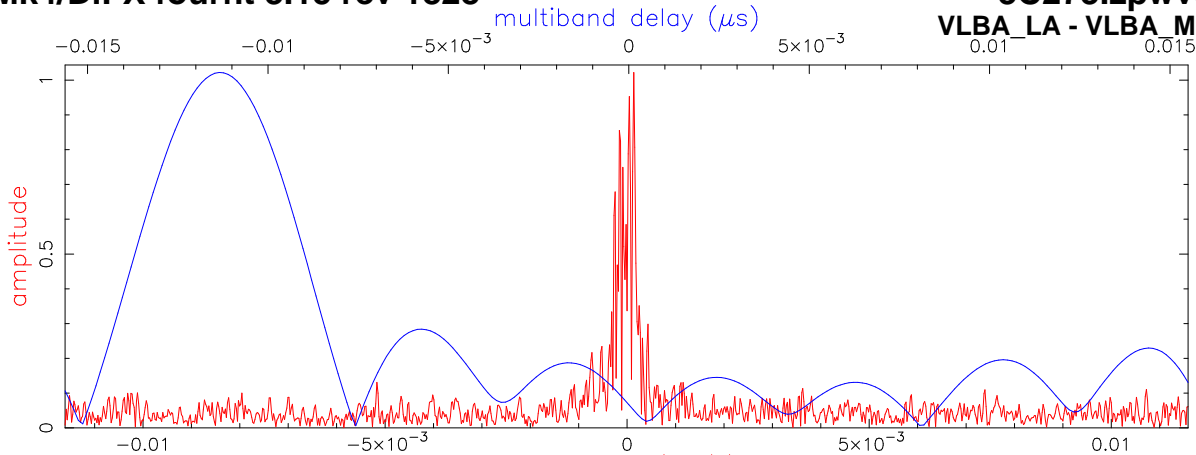


Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022743
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

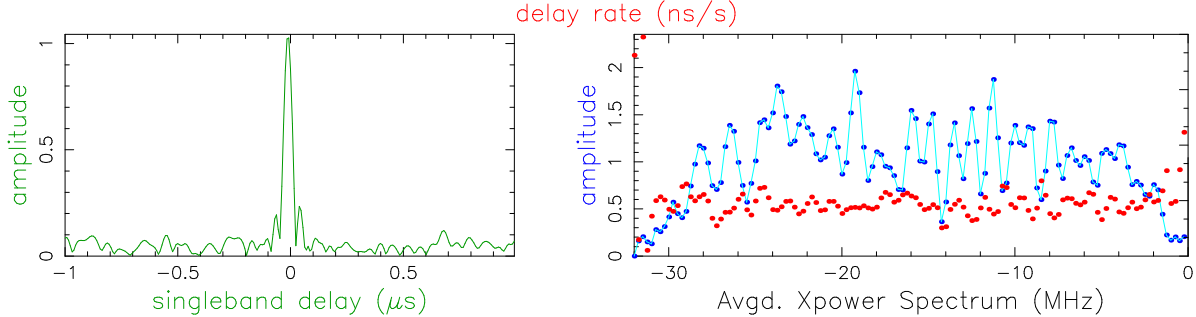
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



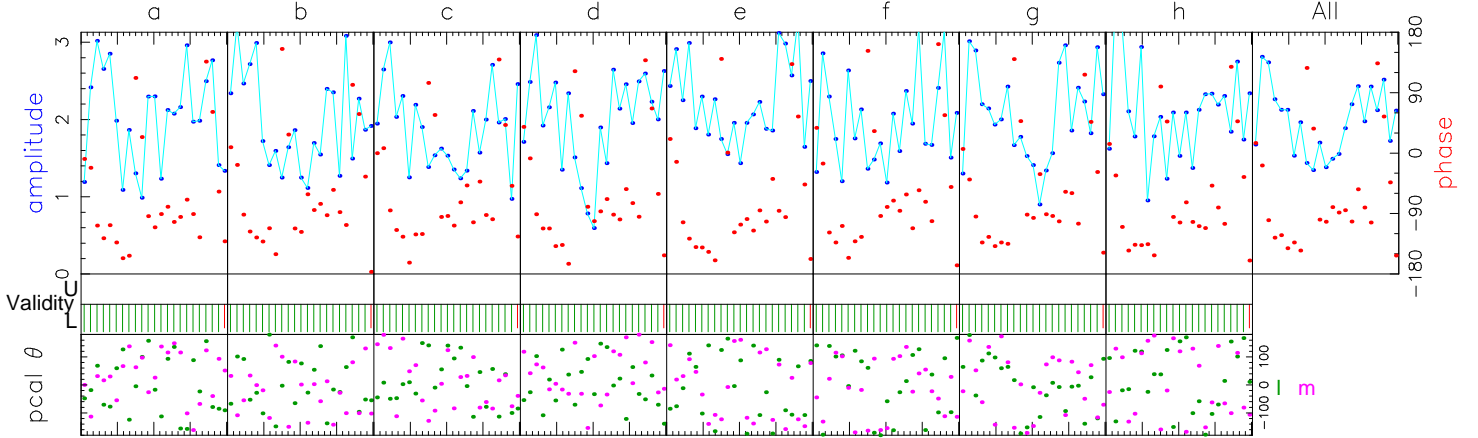
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-112.1	-133.0	-148.7	-124.6	-113.9	-77.3	-162.1	-135.7	Phase	-126.4
	0.2	0.3	0.3	0.2	0.4	0.1	0.1	0.1	Ampl.	0.2
	246.0	16.7	168.7	52.9	181.6	16.2	79.6	127.5	Sbd box	181.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.18029206702E+04		Apriori delay (usec)		1.18025129483E+04		Resid mbdelay (usec)		1.47193E-03	+/- 3.7E-04
Sband delay (usec)	1.18029250388E+04		Apriori clock (usec)		-4.0829430E+00		Resid sbdelay (usec)		4.12091E-01	+/- 2.9E-03
Phase delay (usec)	1.18025129442E+04		Apriori clockrate (us/s)		6.0720932E-08		Resid phdelay (usec)		-4.07451E-06	+/- 6.3E-07
Delay rate (us/s)	-6.07262539423E-01		Apriori rate (us/s)		-6.07266583296E-01		Resid rate (us/s)		4.04387E-06	+/- 4.5E-09
Total phase (deg)	-2335.2		Apriori accel (us/s/s)		-6.20288434628E-05		Resid phase (deg)		-2466.4	+/- 19.5
RMS	55.4	Theor. 46.7	Amplitude 0.207 +/- 0.035	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
ph/seg (deg)	75.7	81.5	Search (1024X32) 0.184	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
amp/seg (%)	27.9	27.5	Interp. 0.000	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
ph/frq (deg)	45.1	48.1	Inc. seg. avg. 0.228	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00
amp/frq (%)			Inc. frq. avg. 0.197	u,v (fr/asec) 3437.562 1514.668				simultaneous interpolator		



Fringe quality 7
 SNR 31.3
 Int time 239.985
 Amp 1.044
 Phase -96.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.011521
 MBD -0.011314
 Fringe rate (Hz) 0.012132
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022801
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"



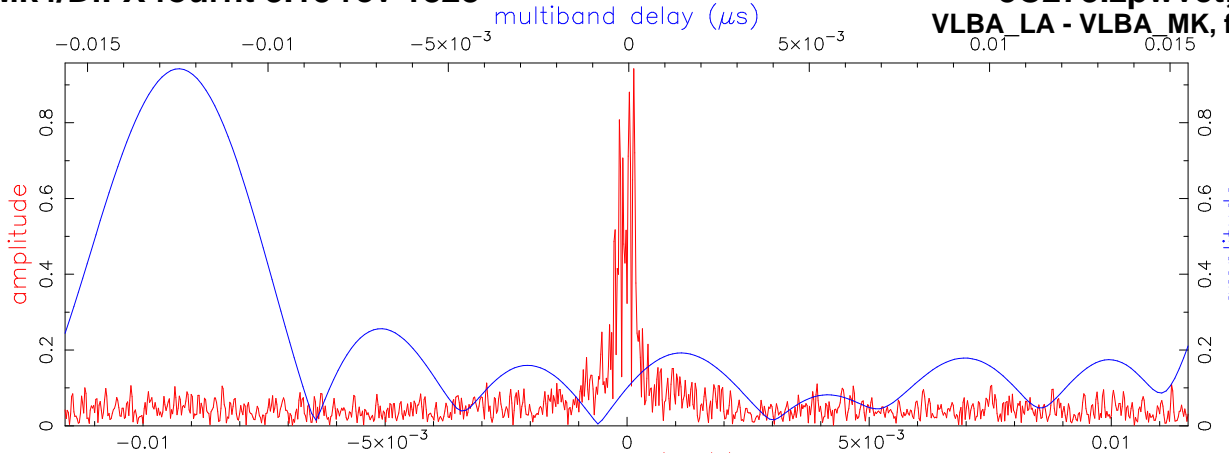
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-101.6	-88.5	-89.6	-98.0	-104.0	-94.4	-92.3	-99.0	Phase	-96.1
	1.2	1.0	1.0	1.0	1.1	0.9	1.1	1.0	Ampl.	1.0
	127.4	128.0	127.6	127.4	127.4	127.4	127.5	127.4	Sbd box	127.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.22148793237E+04		Apriori delay (usec)		1.22148906375E+04		Resid mbdelay (usec)		-1.13138E-02	+/- 6.9E-05
Sband delay (usec)	1.22148791160E+04		Apriori clock (usec)		-5.2908859E+00		Resid sbdelay (usec)		-1.15215E-02	+/- 5.5E-04
Phase delay (usec)	1.22148906344E+04		Apriori clockrate (us/s)		-3.7872998E-08		Resid phdelay (usec)		-3.09743E-06	+/- 1.2E-07
Delay rate (us/s)	-7.38026261014E-01		Apriori rate (us/s)		-7.38026401852E-01		Resid rate (us/s)		1.40838E-07	+/- 8.5E-10
Total phase (deg)	88.7		Apriori accel (us/s/s)		-6.40150723055E-05		Resid phase (deg)		-96.1	+/- 3.7

ph/seg (deg) 69.3 8.8 Theor. Amplitude 1.044 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 98.4 15.3 Search (1024X32) 0.992 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.1 5.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 6.9 9.0 Inc. seg. avg. 1.957 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. 1.023 ion window (TEC) 0.00 0.00

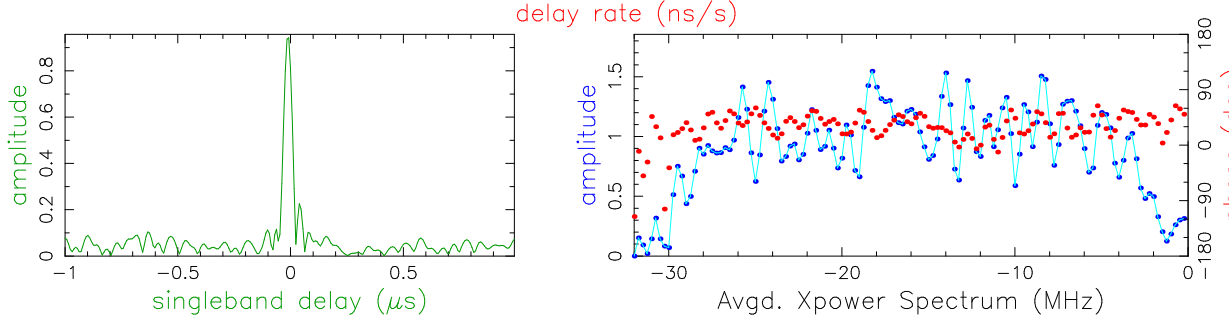
l: az 128.2 el 43.2 pa -39.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4185.595 1998.701 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/lm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/lm.W.161.zpwwct



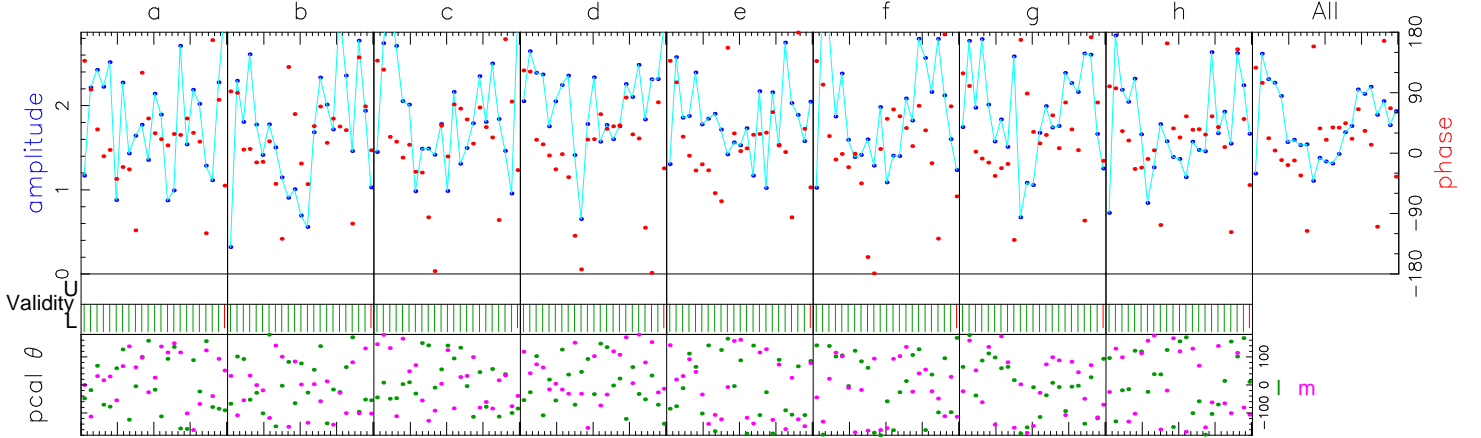
Fringe quality 7

SNR 28.7
Int time 239.985
Amp 0.958
Phase 25.6
PFD 0.0e+00
Delays (us)
SBD -0.011412
MBD -0.012454
Fringe rate (Hz) 0.012138
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022803
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

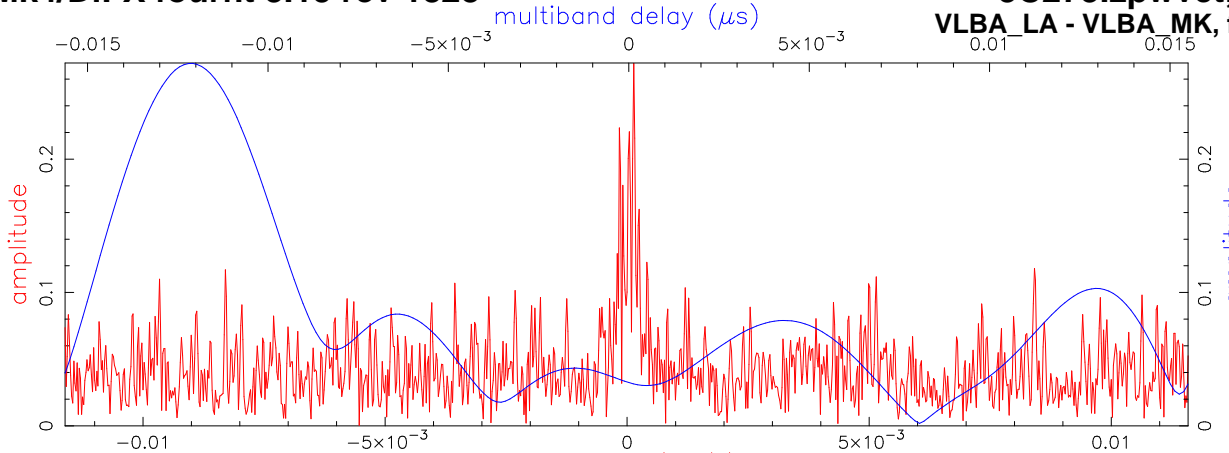


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

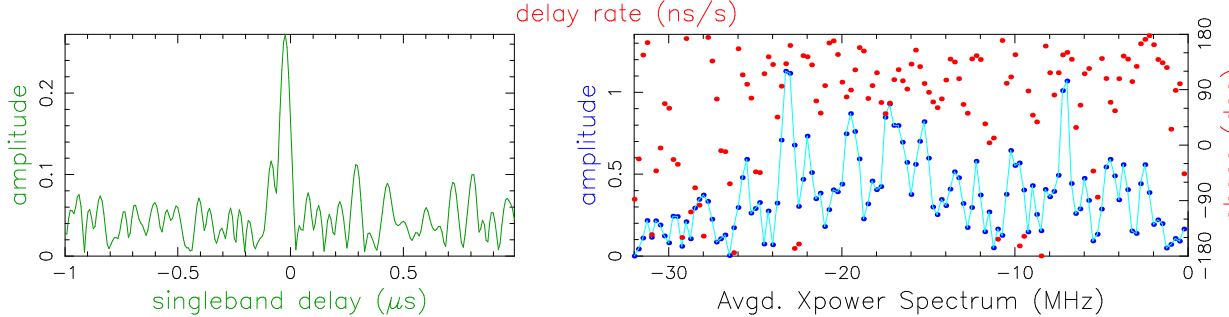


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	Phase	25.6
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	0.9
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	127.5
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
m	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.22148781833E+04		Apriori delay (usec)	1.22148906375E+04		Resid mbdelay (usec)	-1.24542E-02	+/-	7.6E-05
Sband delay (usec)		1.22148792255E+04		Apriori clock (usec)	-5.2908859E+00		Resid sbdelay (usec)	-1.14120E-02	+/-	6.0E-04
Phase delay (usec)		1.22148906383E+04		Apriori clockrate (us/s)	-3.7872998E-08		Resid phdelay (usec)	8.24232E-07	+/-	1.3E-07
Delay rate (us/s)		-7.38026260937E-01		Apriori rate (us/s)	-7.38026401852E-01		Resid rate (us/s)	1.40914E-07	+/-	9.3E-10
Total phase (deg)		210.3		Apriori accel (us/s/s)	-6.40150723055E-05		Resid phase (deg)	25.6	+/-	4.0

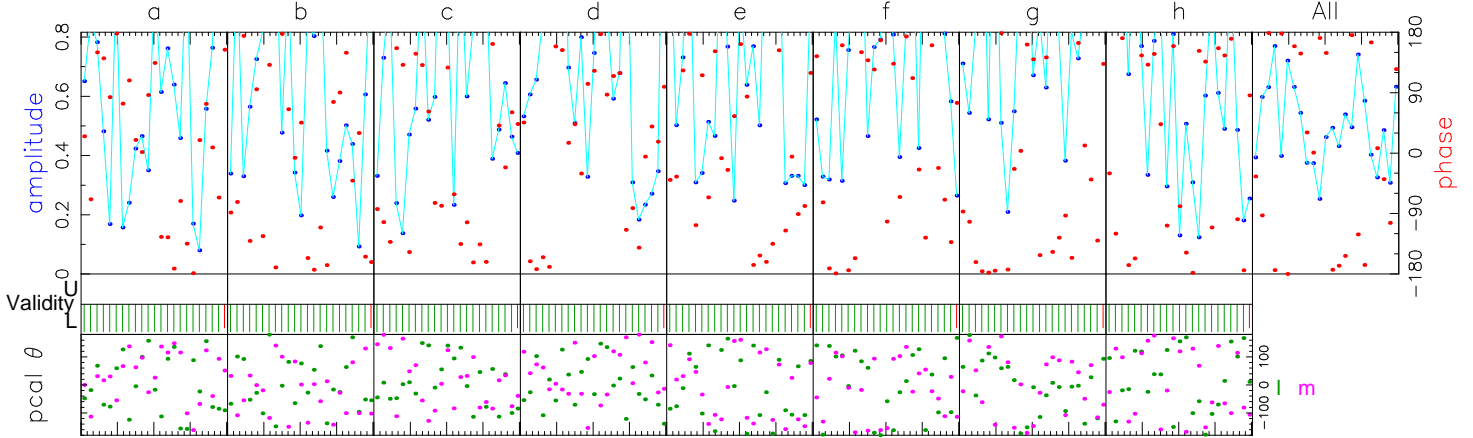
ph/seg (deg) 68.9 9.6 Theor. Amplitude 0.958 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 95.5 16.7 Search (1024X32) 0.924 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.9 5.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 8.6 9.9 Inc. seg. avg. 1.756 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 l: az 128.2 el 43.2 pa -39.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4185.595 1998.701 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/lm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/lm.W.162.zpwwct simultaneous interpolator



Fringe quality 9
SNR 8.2
Int time 239.985
Amp 0.272
Phase -170.5
PFD 3.1e-08
Delays (us)
SBD -0.024469
MBD -0.012145
Fringe rate (Hz) 0.012407
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022804
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

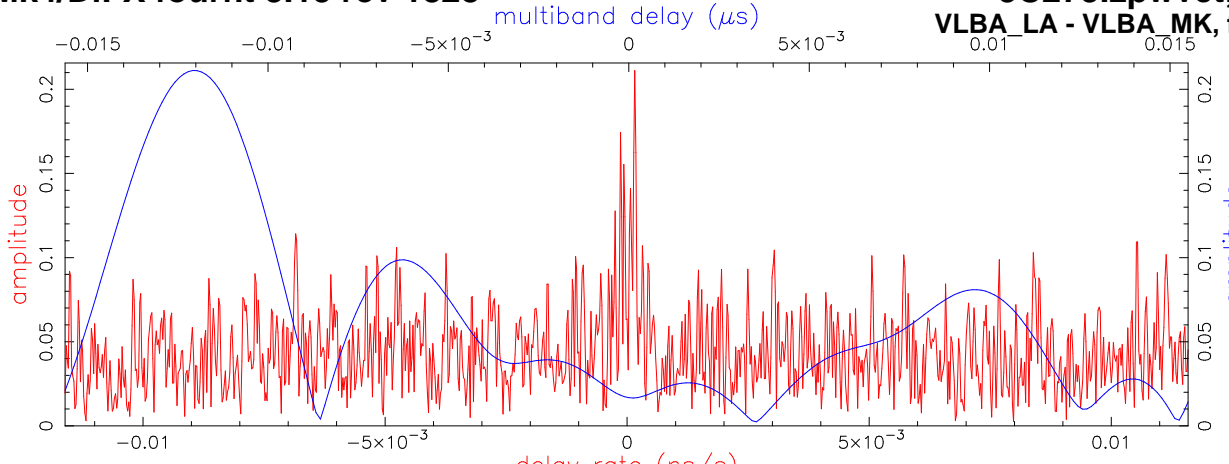


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-166.7	-169.1	-144.7	147.2	-161.1	-174.0	-155.9	-176.0	Phase	-170.5
0.1	0.3	0.3	0.3	0.2	0.4	0.4	0.4	Ampl.	0.3
119.6	158.2	185.4	127.4	205.6	125.1	125.4	125.1	Sbd box	125.9
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
l -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	1000	1000	1000	1000		
l W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	

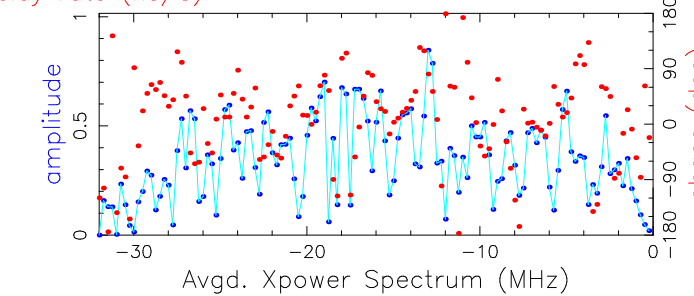
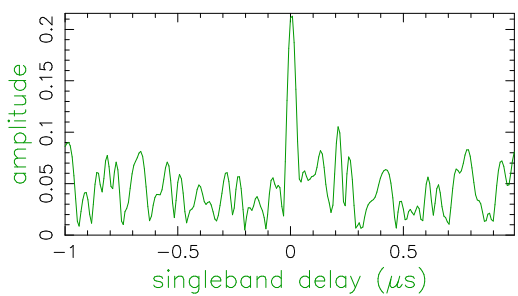
Group delay (usec)(sbd) 1.22148784928E+04 Apriori delay (usec) 1.22148906375E+04 Resid mbdelay (usec) -1.21447E-02 +/- 2.7E-04
 Sband delay (usec) 1.22148661690E+04 Apriori clock (usec) -5.2908859E+00 Resid sbdelay (usec) -2.44685E-02 +/- 2.1E-03
 Phase delay (usec) 1.22148906320E+04 Apriori clockrate (us/s) -3.7872998E-08 Resid phdelay (usec) -5.49941E-06 +/- 4.5E-07
 Delay rate (us/s) -7.38026257825E-01 Apriori rate (us/s) -7.38026401852E-01 Resid rate (us/s) 1.44027E-07 +/- 3.3E-09
 Total phase (deg) 14.2 Apriori accel (us/s/s) -6.40150723055E-05 Resid phase (deg) -170.5 +/- 14.1

RMS Theor. Amplitude 0.272 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 79.5 33.7 Search (1024X32) 0.257 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 99.2 58.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 21.7 19.9 Inc. seg. avg. 0.429 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 (%) 34.3 34.7 Inc. frq. avg. 0.271 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

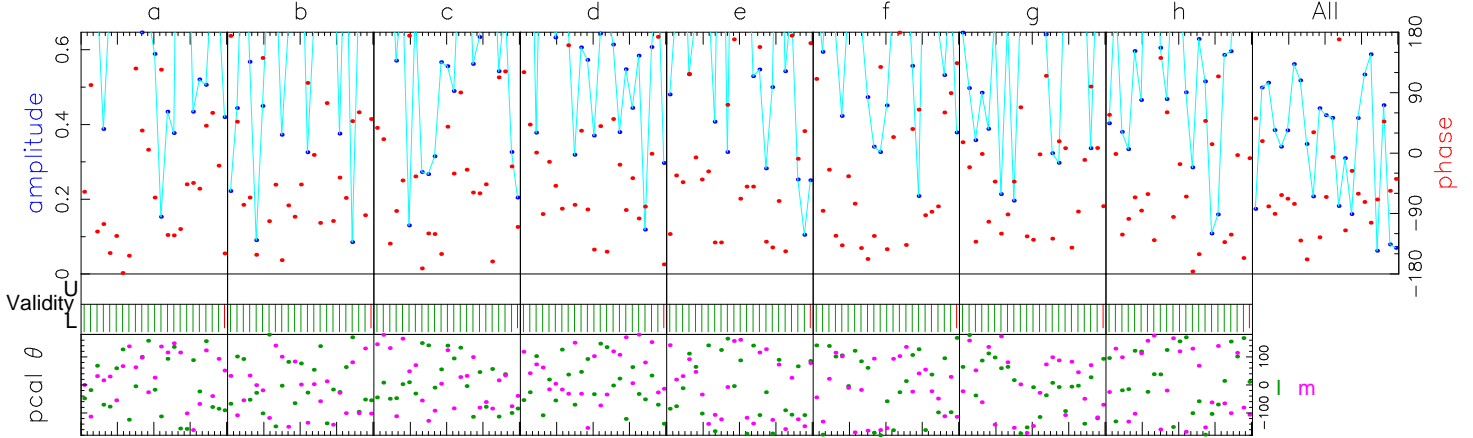
l: az 128.2 el 43.2 pa -39.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4185.595 1998.701 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/lm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/lm.W.163.zpwwct



Fringe quality 0
SNR 6.5
Int time 239.985
Amp 0.216
Phase -252.4
PFD 7.2e-03
Delays (us)
SBD 0.004347
MBD -0.012090
Fringe rate (Hz) 0.013113
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022805
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

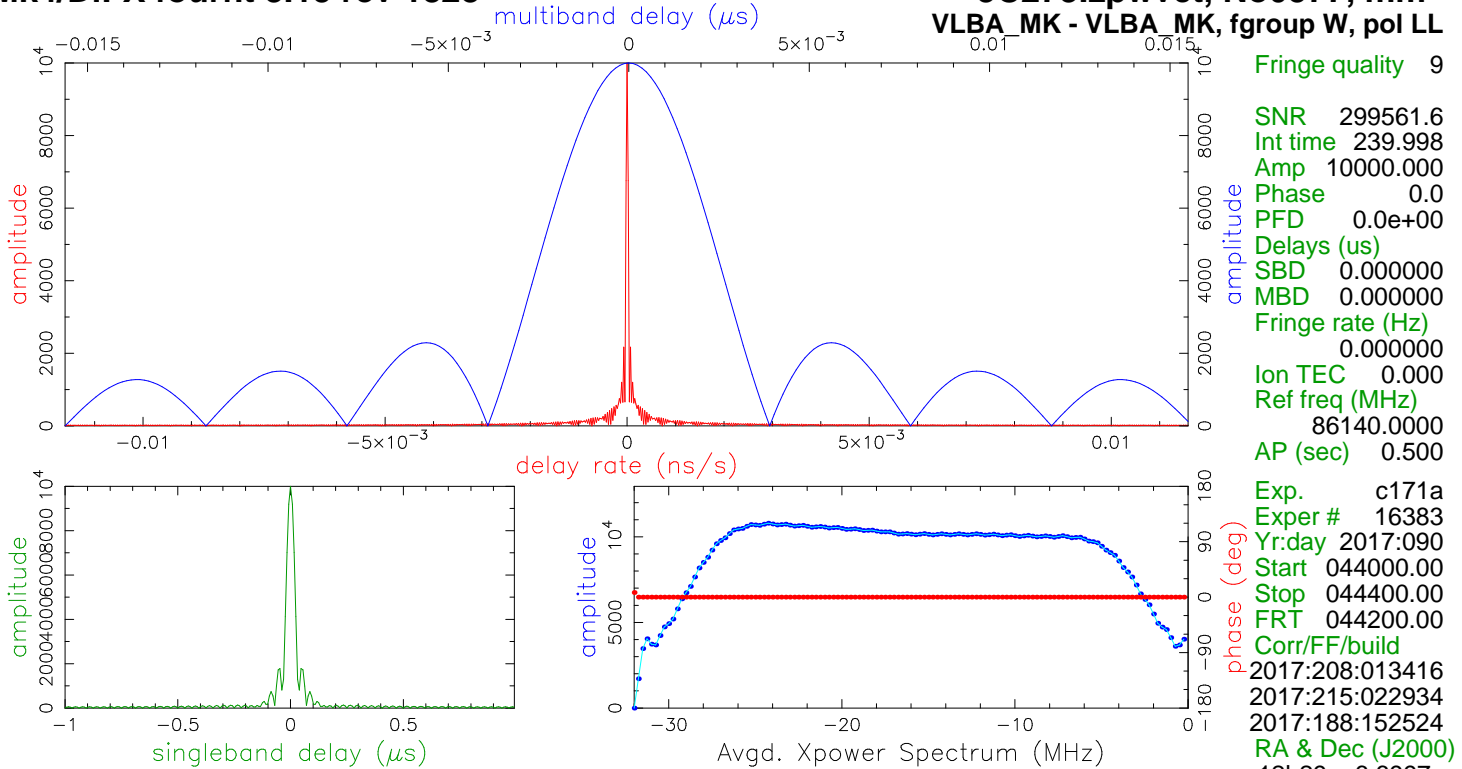


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

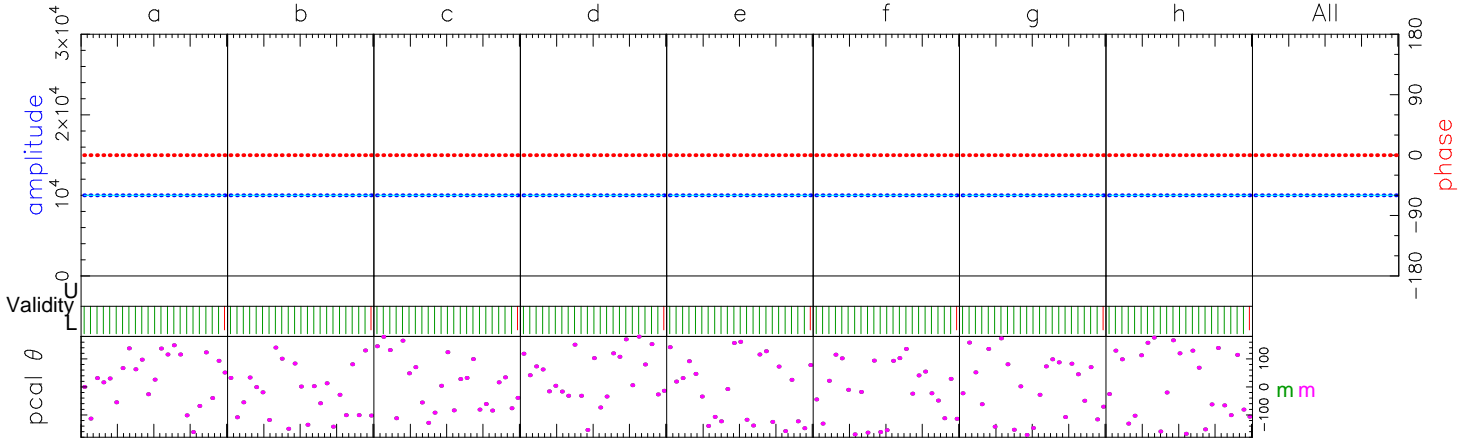


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-94.4	-64.7	-46.9	-47.8	-90.8	-107.7	-43.9	-74.9	Phase	-72.4
0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	Ampl.	0.2
124.1	129.6	145.9	222.0	138.9	174.9	248.6	130.8	Sbd box	129.6
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
l -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	1000	1000	1000	1000		
l W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.22149097979E+04	Apriori delay (usec)	1.22148906375E+04	Resid mbdelay (usec)	-1.20896E-02	+/-	3.4E-04		
Sband delay (usec)	1.22148949850E+04	Apriori clock (usec)	-5.2908859E+00	Resid sbdelay (usec)	4.34750E-03	+/-	2.7E-03		
Phase delay (usec)	1.22148906352E+04	Apriori clockrate (us/s)	-3.7872998E-08	Resid phdelay (usec)	-2.33541E-06	+/-	5.7E-07		
Delay rate (us/s)	-7.38026249623E-01	Apriori rate (us/s)	-7.38026401852E-01	Resid rate (us/s)	1.52229E-07	+/-	4.1E-09		
Total phase (deg)	-67.7	Apriori accel (us/s/s)	-6.40150723055E-05	Resid phase (deg)	-252.4	+/-	17.7		

ph/seg (deg) 61.8 RMS 61.8 Theor. 42.5 Amplitude 0.216 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 97.8 74.2 Search (1024X32) 0.204 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.5 25.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 23.5 43.8 Inc. seg. avg. 0.277 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 l: az 128.2 el 43.2 pa -39.4 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 4185.595 1998.701 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/lm.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/lm.W.164.zpwwct simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 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	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Tracks	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
m	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	+/-	7.2E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-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 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

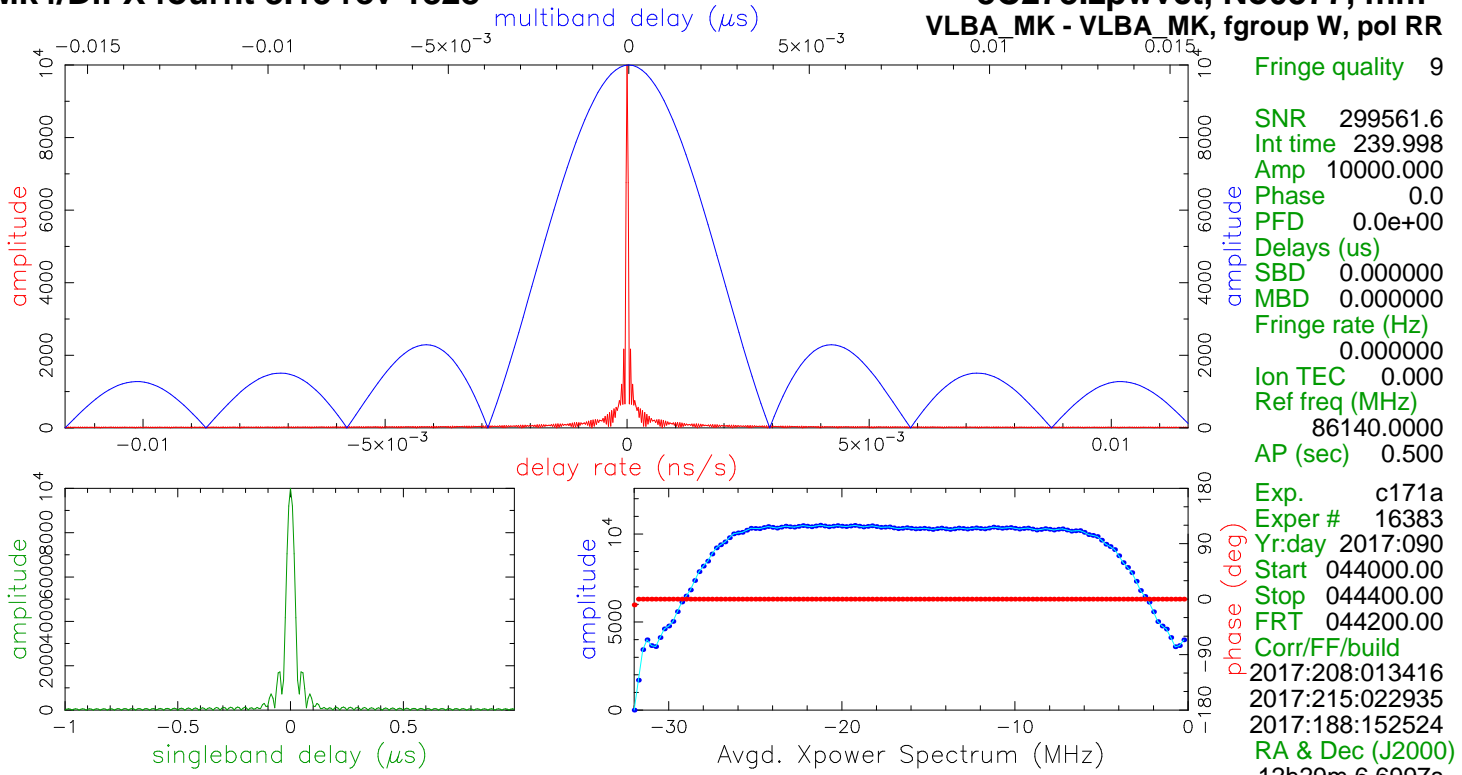
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 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

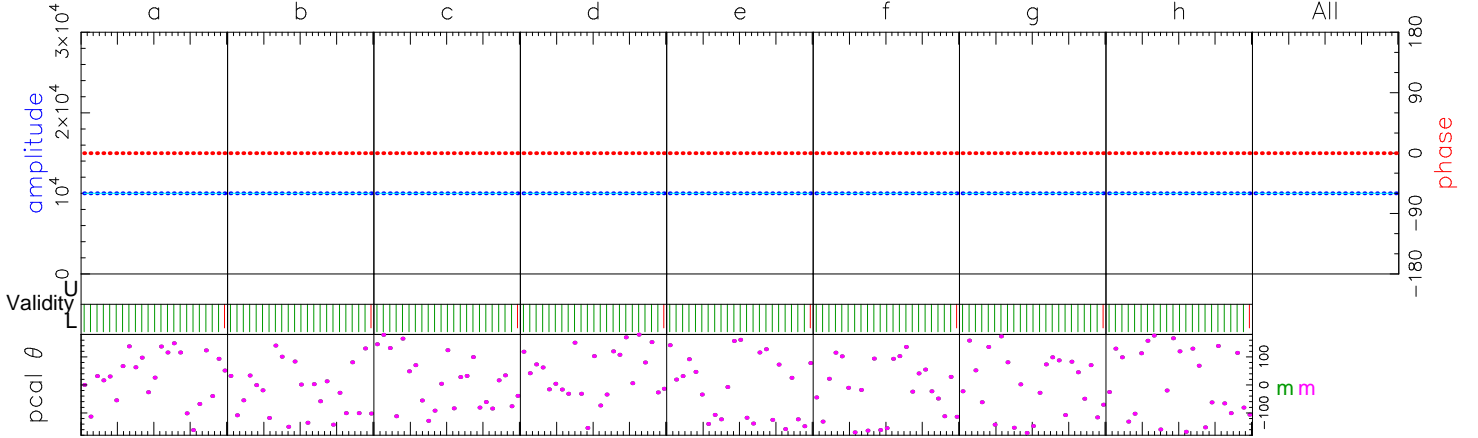
amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/mm.W.245.zpwwct



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 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 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	1000	1000	1000	1000		
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.2E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-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 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

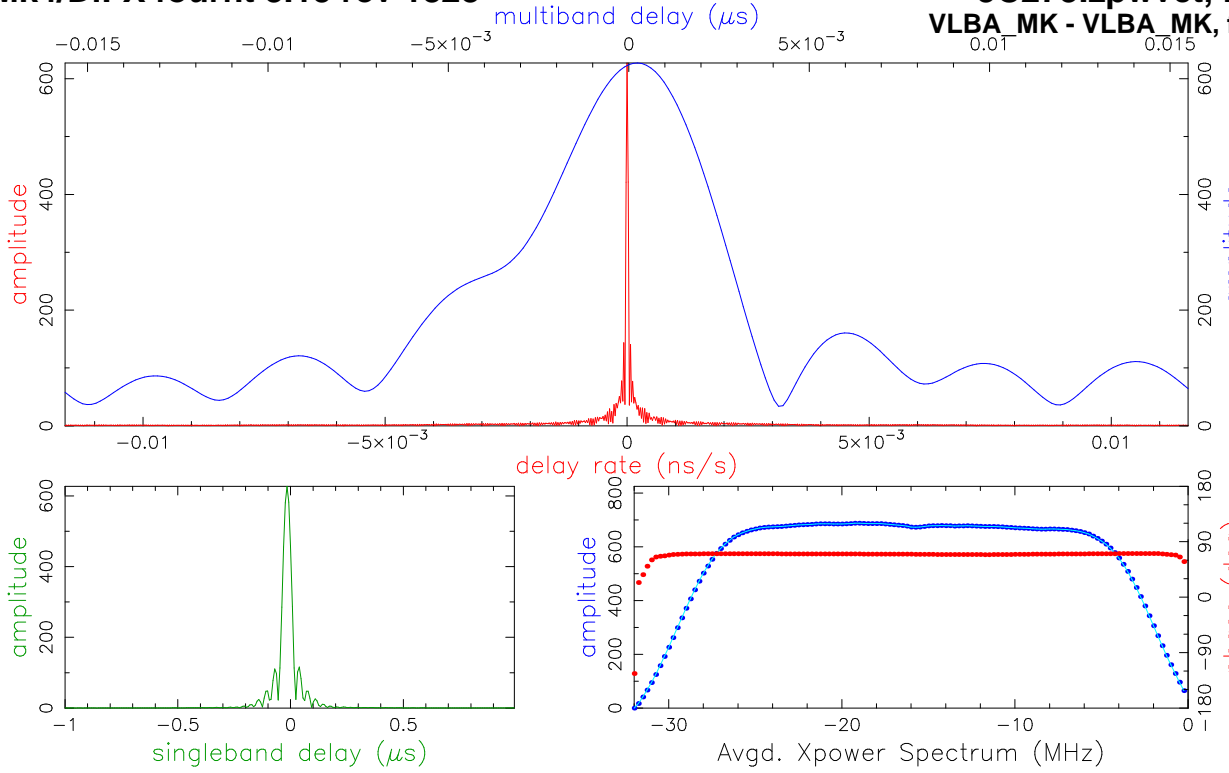
amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

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

m: az 90.1 el 6.1 pa -70.3 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/mm.W.246.zpwwct

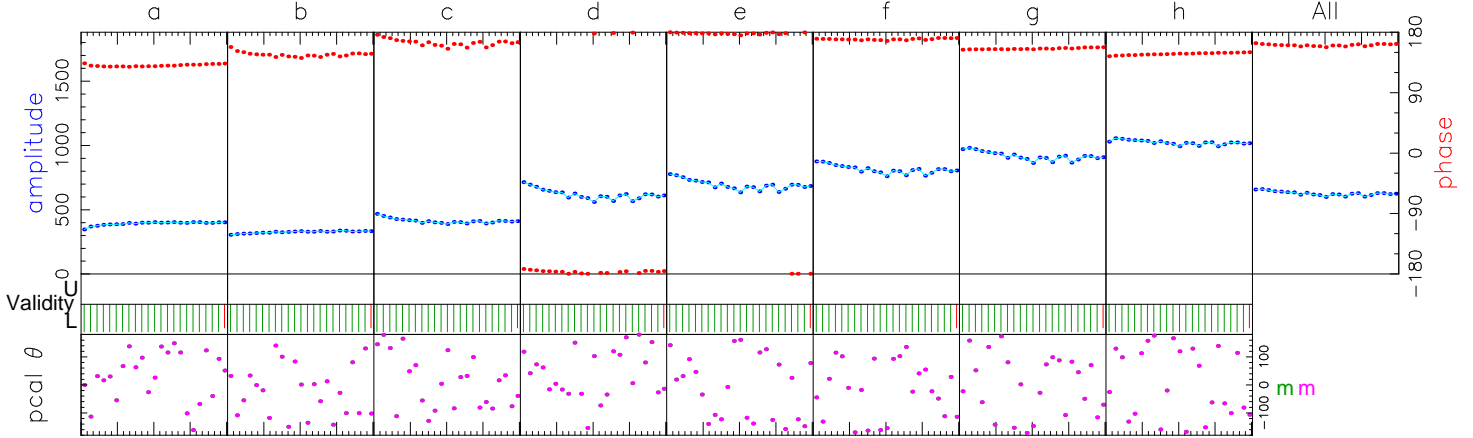


Fringe quality 7

SNR 18789.2
Int time 239.998
Amp 627.225
Phase 340.7
PFD 0.0e+00
Delays (us)
SBD -0.015547
MBD 0.000228
Fringe rate (Hz)
-0.000065
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022936
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

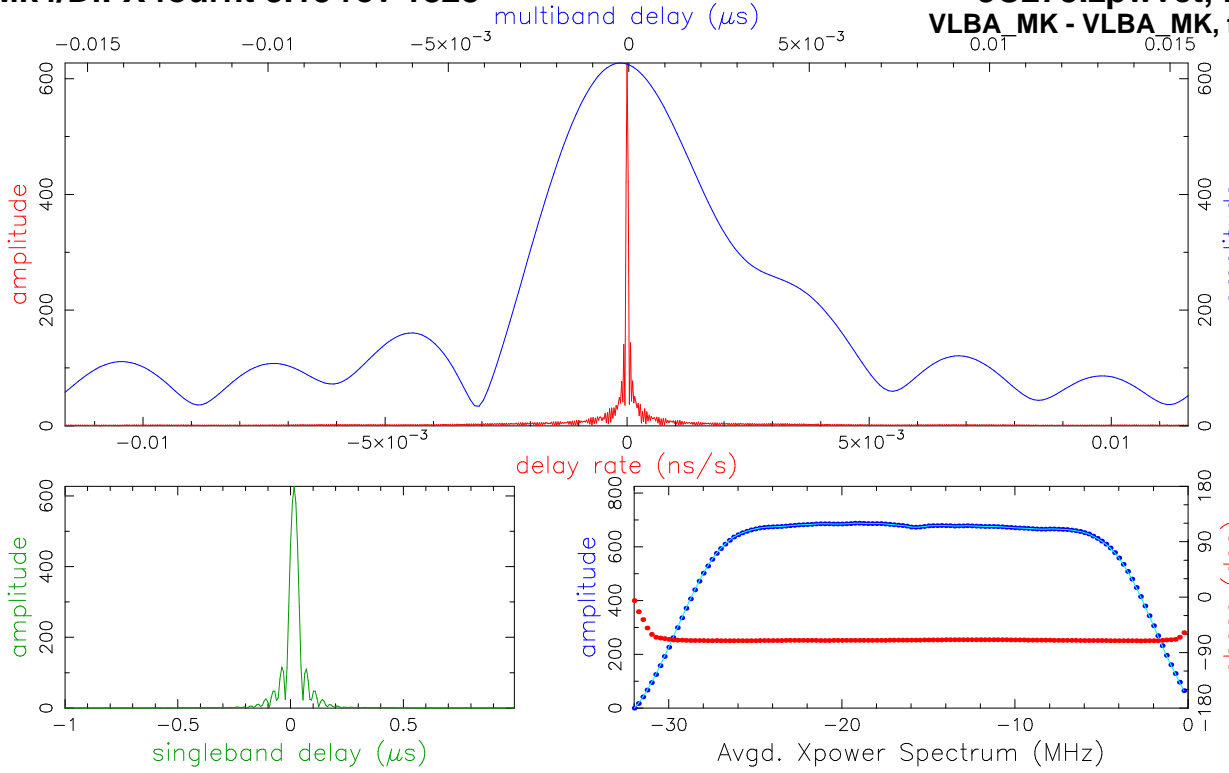


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	130.5	146.6	164.5	-177.0	178.4	169.4	155.4	147.6	Phase	160.7
	392.8	326.3	411.9	619.4	694.6	814.2	918.4	1023.2	Ampl.	650.1
	127.1	126.8	127.1	127.1	127.0	126.9	127.0	126.9	Sbd box	127.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd) -3.10219375000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 2.28063E-04 +/- 1.2E-07
 Sband delay (usec) -1.55470000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -1.55470E-02 +/- 9.2E-07
 Phase delay (usec) 5.18363861562E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.18364E-06 +/- 2.0E-10
 Delay rate (us/s) -7.58938936615E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -7.58939E-10 +/- 1.4E-12
 Total phase (deg) 340.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 340.7 +/- 0.0

RMS Theor. Amplitude 627.225 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 1.5 0.0 Search (1024X32) 623.943 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 19.2 0.0 Inc. seg. avg. 627.433 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012
 amp/frq (%) 38.8 0.0 Inc. frq. avg. 650.088 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/mm.W.247.zpwwct

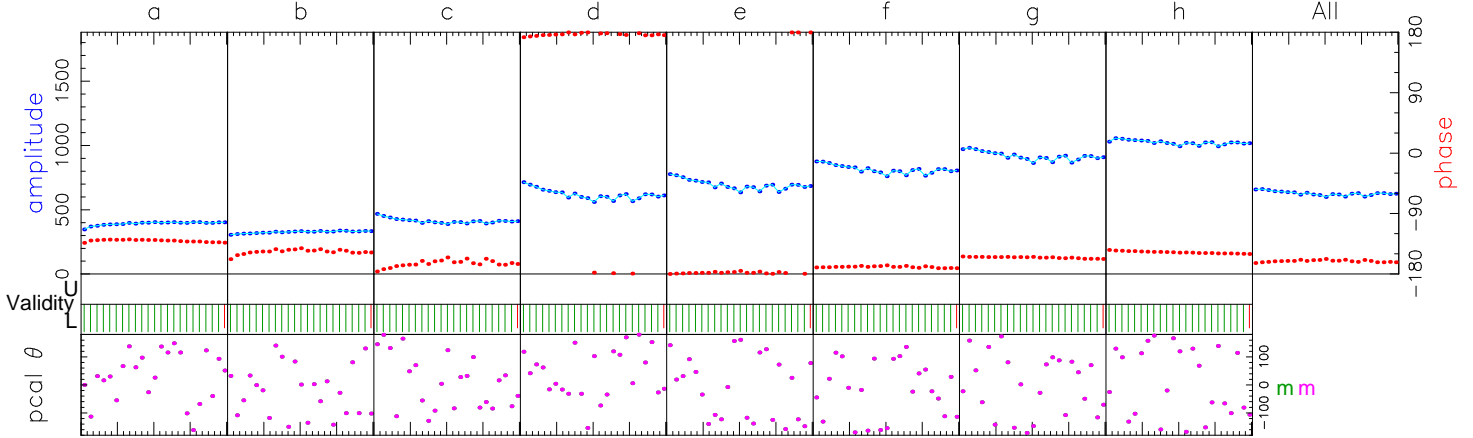


Fringe quality 7

SNR 18789.2
Int time 239.998
Amp 627.225
Phase -340.7
PFD 0.0e+00
Delays (us)
SBD 0.015547
MBD -0.000228
Fringe rate (Hz) 0.000065
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022936
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

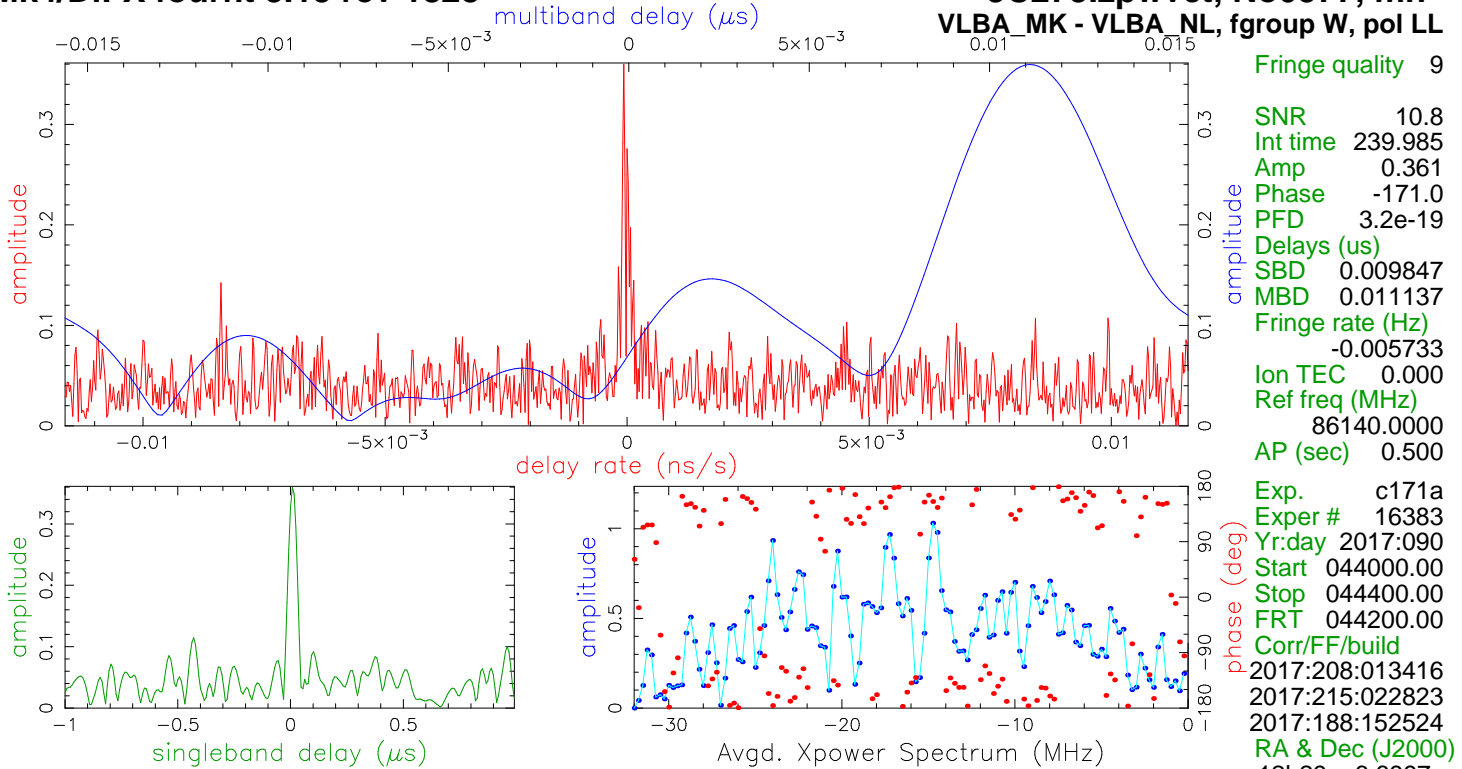


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-130.5	-146.6	-164.5	177.0	-178.4	-169.4	-155.4	-147.6	Phase	-160.7
	392.8	326.3	411.9	619.4	694.6	814.2	918.4	1023.2	Ampl.	650.1
	130.9	131.2	130.9	130.9	131.0	131.1	131.0	131.1	Sbd box	131.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

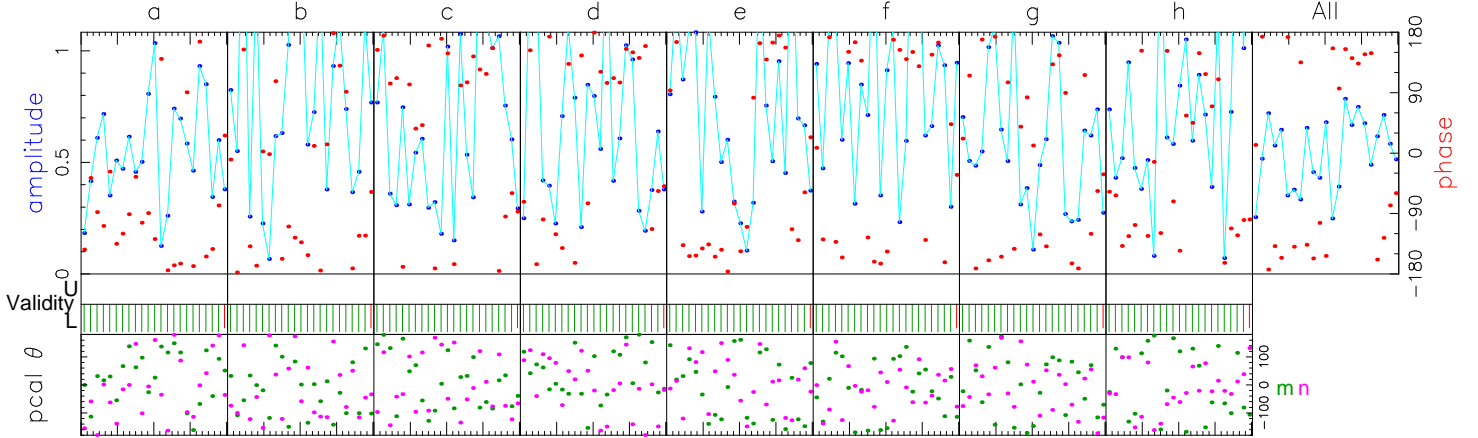
Group delay (usec)(sbd) 3.10219375000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -2.28063E-04 +/- 1.2E-07
 Sband delay (usec) 1.55470000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 1.55470E-02 +/- 9.2E-07
 Phase delay (usec) -5.18363861543E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -5.18364E-06 +/- 2.0E-10
 Delay rate (us/s) 7.58938936615E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 7.58939E-10 +/- 1.4E-12
 Total phase (deg) -340.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -340.7 +/- 0.0

RMS Theor. Amplitude 627.225 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 1.5 0.0 Search (1024X32) 623.943 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 19.2 0.0 Inc. seg. avg. 627.433 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012
 amp/frq (%) 38.8 0.0 Inc. frq. avg. 650.088 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mm.W.248.zpwvct

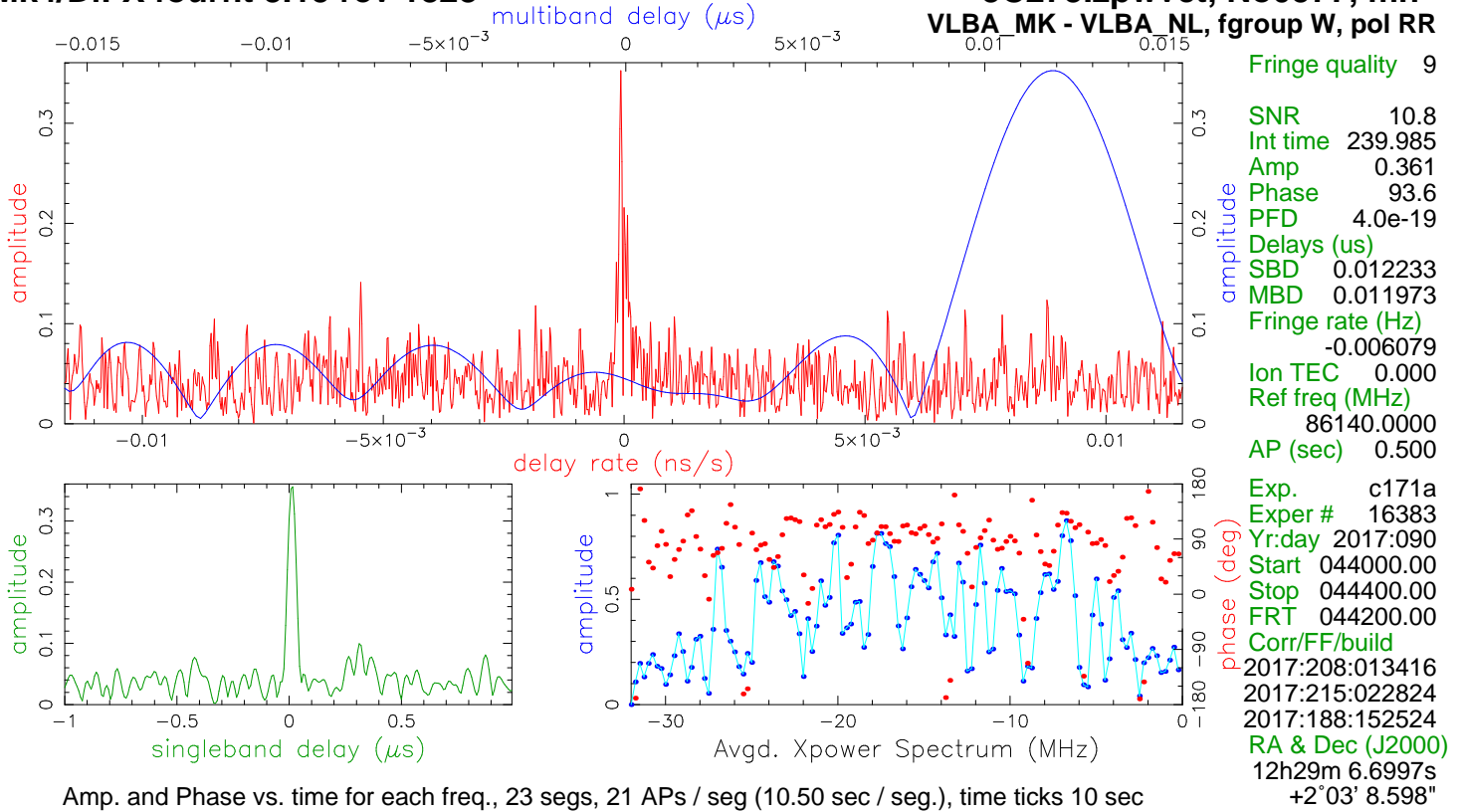


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

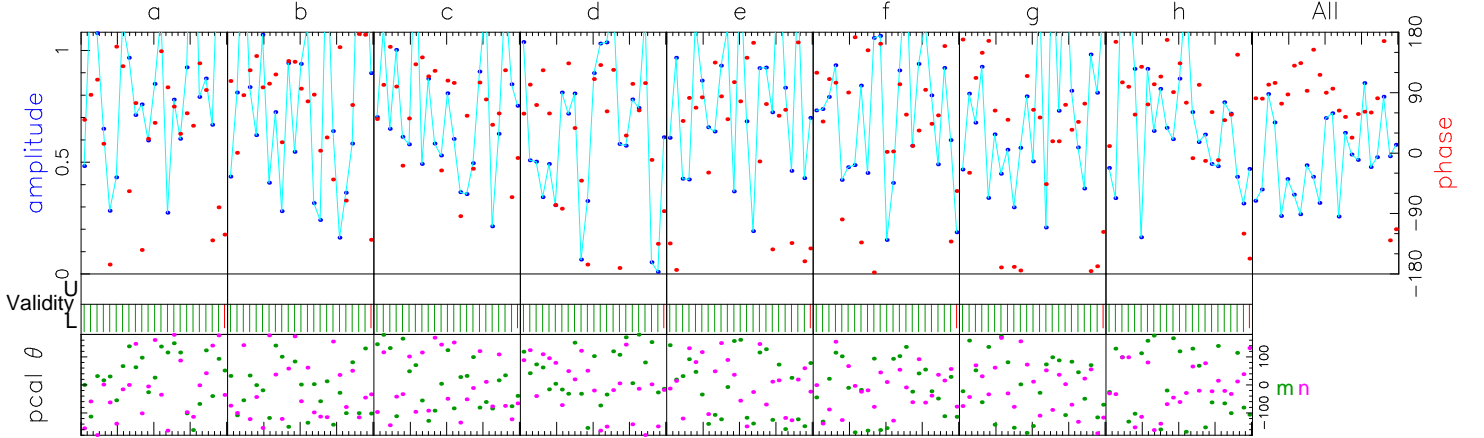


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-125.5	-160.4	143.8	167.3	-162.0	176.8	174.8	-129.1	Phase	-171.0
0.3	0.4	0.4	0.4	0.5	0.6	0.3	0.3	Ampl.	0.4
130.4	130.1	129.8	131.7	129.7	129.9	131.1	130.1	Sbd box	130.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
m 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)	-1.29859275015E+04	Apriori delay (usec)	-1.29859386386E+04	Resid mbdelay (usec)	1.11371E-02	+/-	2.0E-04		
Sband delay (usec)	-1.29859287921E+04	Apriori clock (usec)	-4.3548851E+00	Resid sbdelay (usec)	9.84650E-03	+/-	1.6E-03		
Phase delay (usec)	-1.29859386441E+04	Apriori clockrate (us/s)	-3.5968662E-07	Resid phdelay (usec)	-5.51579E-06	+/-	3.4E-07		
Delay rate (us/s)	1.05873002026E+00	Apriori rate (us/s)	1.05873008682E+00	Resid rate (us/s)	-6.65573E-08	+/-	2.5E-09		
Total phase (deg)	-288.4	Apriori accel (us/s/s)	6.77503920874E-05	Resid phase (deg)	-171.0	+/-	10.6		

ph/seg (deg) 60.7 25.4 Search (1024X32) 0.354 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.1 44.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.9 15.0 Inc. seg. avg. 0.492 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 26.8 26.1 Inc. frq. avg. 0.392 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 m: az 90.1 el 6.1 pa -70.3 n: az 149.9 el 46.2 pa -21.7 u,v (fr/asec) -6020.896 -2708.454 Data rate (TEC) 0.00 0.00 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mn..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mn.W.181.zpwvct



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
82.0	108.1	91.3	94.2	95.4	104.5	84.9	85.7	Phase	93.6
0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.5	Ampl.	0.3
128.8	131.1	130.2	131.2	131.4	130.5	128.2	131.3	Sbd box	130.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.29859266659E+04		Apriori delay (usec)	-1.29859386386E+04		Resid mbdelay (usec)	1.19727E-02	+/-	2.0E-04
Sband delay (usec)	-1.29859264061E+04		Apriori clock (usec)	-4.3548851E+00		Resid sbdelay (usec)	1.22325E-02	+/-	1.6E-03
Phase delay (usec)	-1.29859386355E+04		Apriori clockrate (us/s)	-3.5968662E-07		Resid phdelay (usec)	3.01913E-06	+/-	3.4E-07
Delay rate (us/s)	1.05873001625E+00		Apriori rate (us/s)	1.05873008682E+00		Resid rate (us/s)	-7.05668E-08	+/-	2.5E-09
Total phase (deg)		-23.7	Apriori accel (us/s/s)	6.77503920874E-05		Resid phase (deg)	93.6	+/-	10.6

ph/seg (deg) 52.6 25.4 Theor. Amplitude 0.361 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

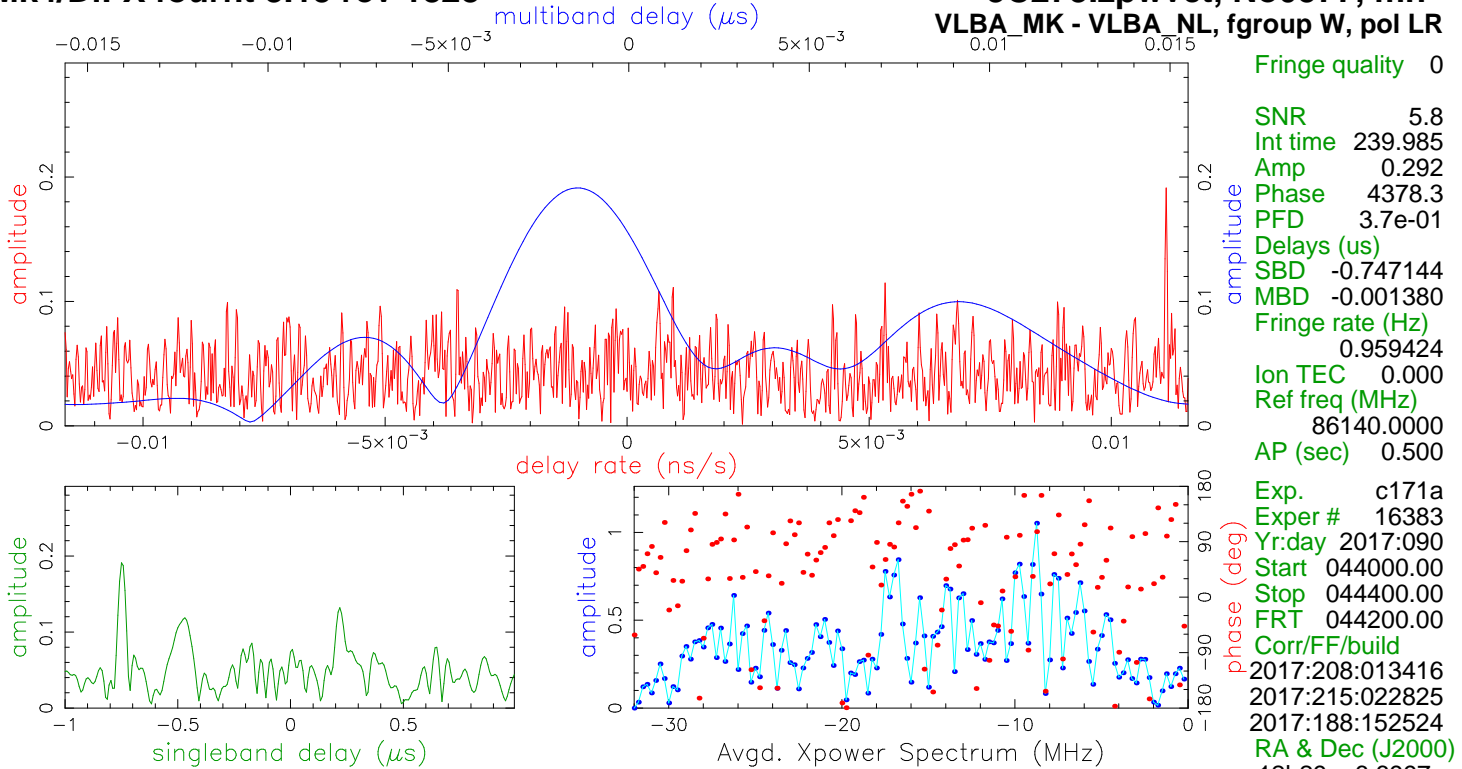
amp/seg (%) 65.2 44.4 Search (1024X32) 0.351 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 10.1 15.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

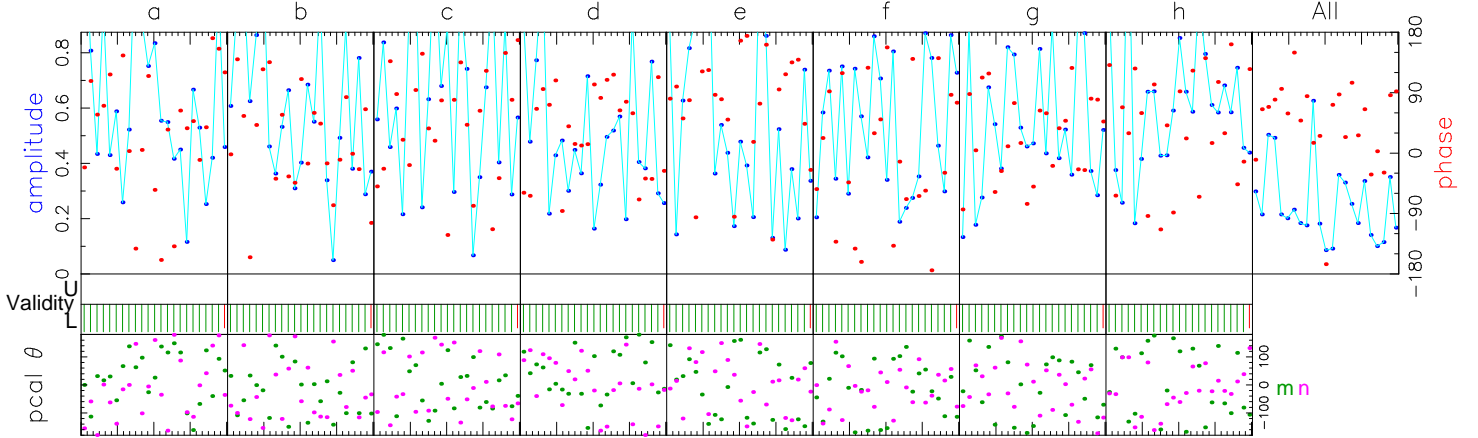
amp/frq (%) 17.1 26.2 Inc. seg. avg. 0.468 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

m: az 90.1 el 6.1 pa -70.3 n: az 149.9 el 46.2 pa -21.7 u,v (fr/asec) -6020.896 -2708.454 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mn..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mn.W.182.zpwvct simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

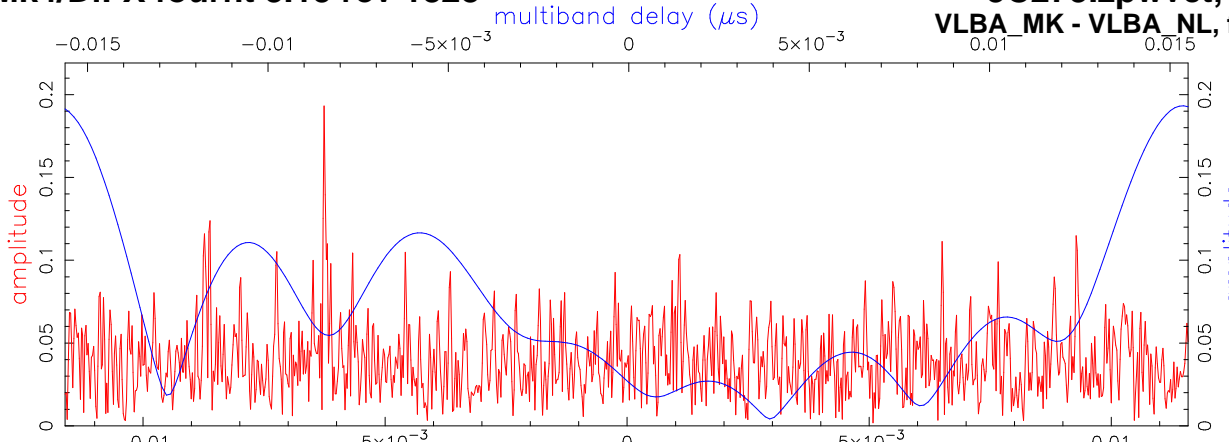


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
56.9	44.9	70.5	38.4	99.5	115.9	26.8	56.1	Phase	58.3
0.2	0.4	0.3	0.3	0.5	0.1	0.5	0.3	Ampl.	0.3
163.2	33.5	92.7	114.0	33.1	143.0	205.4	118.6	Sbd box	33.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.29866900187E+04		Apriori delay (usec)	-1.29859386386E+04		Resid mbdelay (usec)	-1.38015E-03	+/-	3.8E-04
Sband delay (usec)	-1.29866857826E+04		Apriori clock (usec)	-4.3548851E+00		Resid sbdelay (usec)	-7.47144E-01	+/-	3.0E-03
Phase delay (usec)	-1.29859386367E+04		Apriori clockrate (us/s)	-3.5968662E-07		Resid phdelay (usec)	1.88157E-06	+/-	6.4E-07
Delay rate (us/s)	1.05874122478E+00		Apriori rate (us/s)	1.05873008682E+00		Resid rate (us/s)	1.11380E-05	+/-	4.6E-09
Total phase (deg)		4261.0	Apriori accel (us/s/s)	6.77503920874E-05		Resid phase (deg)	4378.3	+/-	19.8

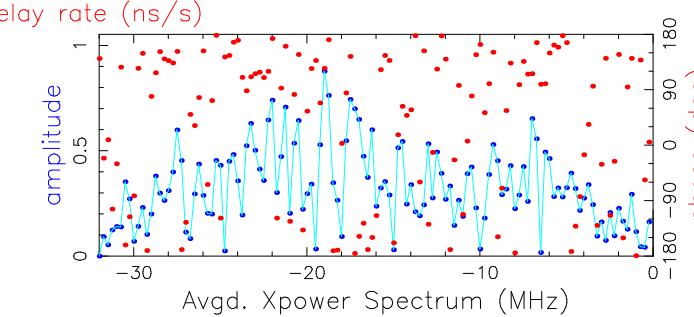
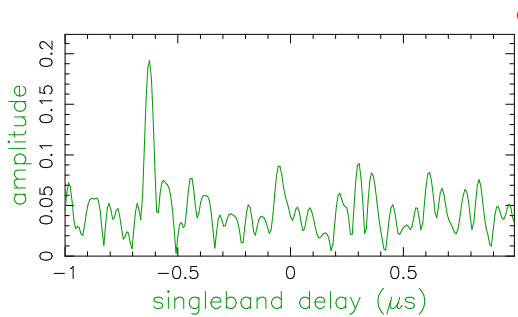
RMS Theor. Amplitude 0.292 +/- 0.050 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 52.6 47.5 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 78.4 82.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 33.5 28.0 Inc. seg. avg. 0.286 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 (%) 42.1 48.9 Inc. frq. avg. 0.290 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 n: az 149.9 el 46.2 pa -21.7 u,v (fr/asec) -6020.896 -2708.454 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mn..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mn.W.183.zpwvct

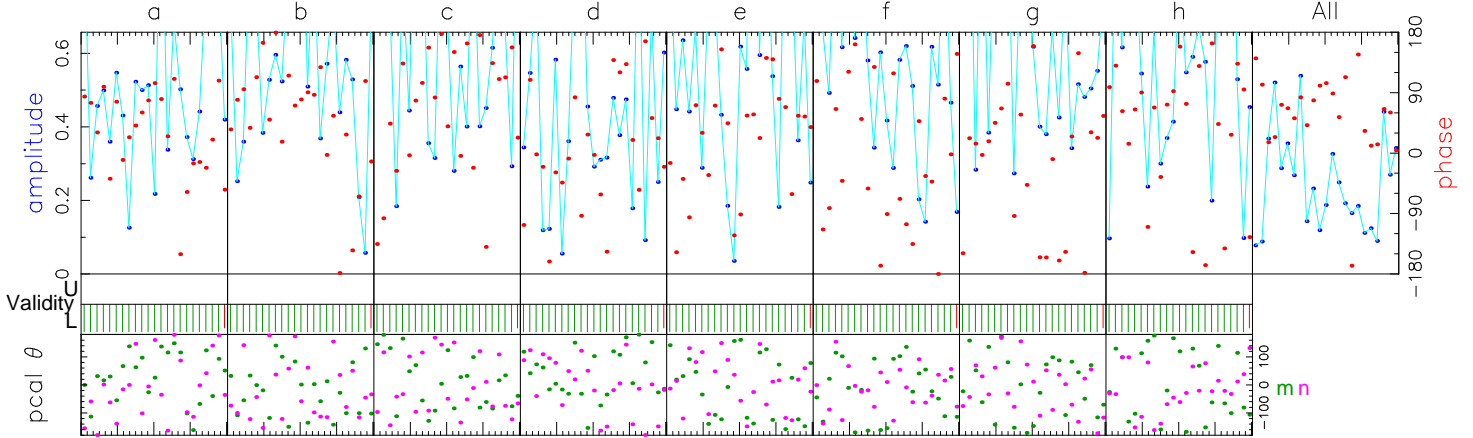


Fringe quality 0
SNR 5.8
Int time 239.985
Amp 0.219
Phase 3663.4
PFD 3.3e-01
Delays (us)
SBD -0.626854
MBD -0.015965
Fringe rate (Hz)
-0.539110
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022826
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

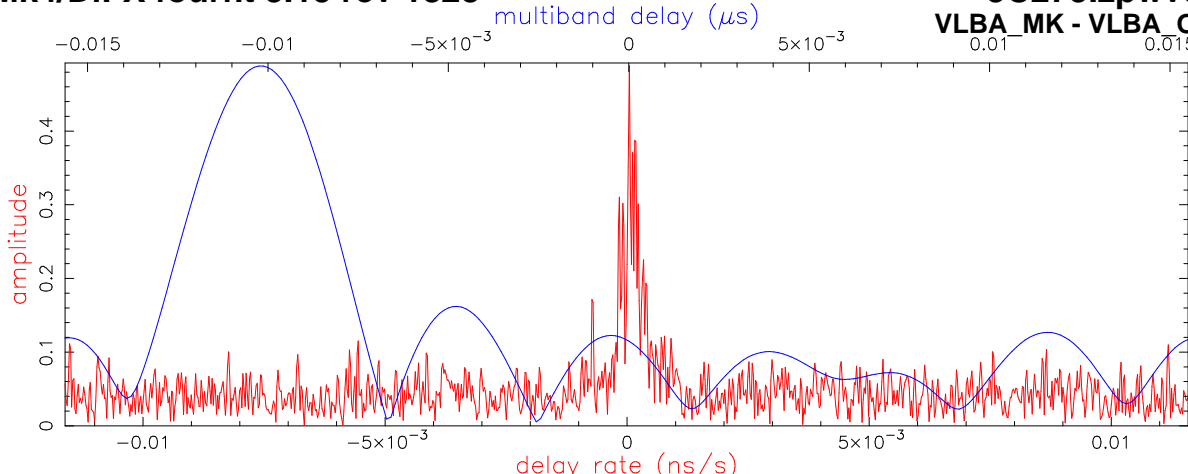


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	51.0	74.1	102.4	-2.3	45.0	106.7	44.7	86.6	Phase	63.4
m	0.3	0.4	0.2	0.1	0.3	0.0	0.2	0.3	Ampl.	0.2
n	78.1	49.3	210.2	252.0	48.1	155.5	55.9	49.9	Sbd box	48.8
m	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

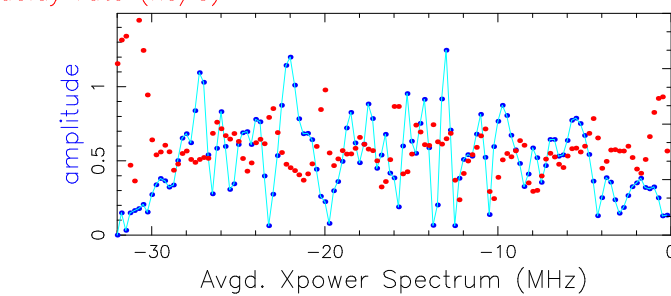
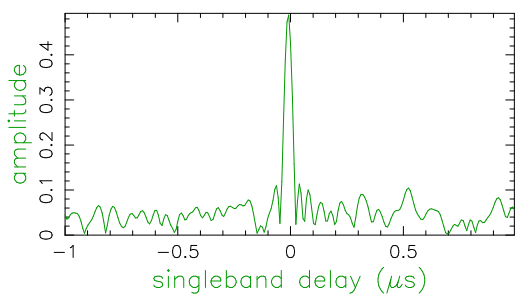
Group delay (usec)(sbd)	-1.29865796035E+04	Apriori delay (usec)	-1.29859386386E+04	Resid mbdelay (usec)	-1.59649E-02	+/-	3.7E-04
Sband delay (usec)	-1.29865654921E+04	Apriori clock (usec)	-4.3548851E+00	Resid sbdelay (usec)	-6.26854E-01	+/-	3.0E-03
Phase delay (usec)	-1.29859386365E+04	Apriori clockrate (us/s)	-3.5968662E-07	Resid phdelay (usec)	2.04532E-06	+/-	6.4E-07
Delay rate (us/s)	1.05872382829E+00	Apriori rate (us/s)	1.05873008682E+00	Resid rate (us/s)	-6.25853E-06	+/-	4.6E-09
Total phase (deg)	3546.1	Apriori accel (us/s/s)	6.77503920874E-05	Resid phase (deg)	3663.4	+/-	19.7

ph/seg (deg)	47.5	Theor.	47.3	Search (1024X32)	0.185	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.2		82.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	39.2		27.9	Inc. seg. avg.	0.208	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	50.4		48.7	Inc. frq. avg.	0.219	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 1024	nlags: 128	t_cohere	infinite	

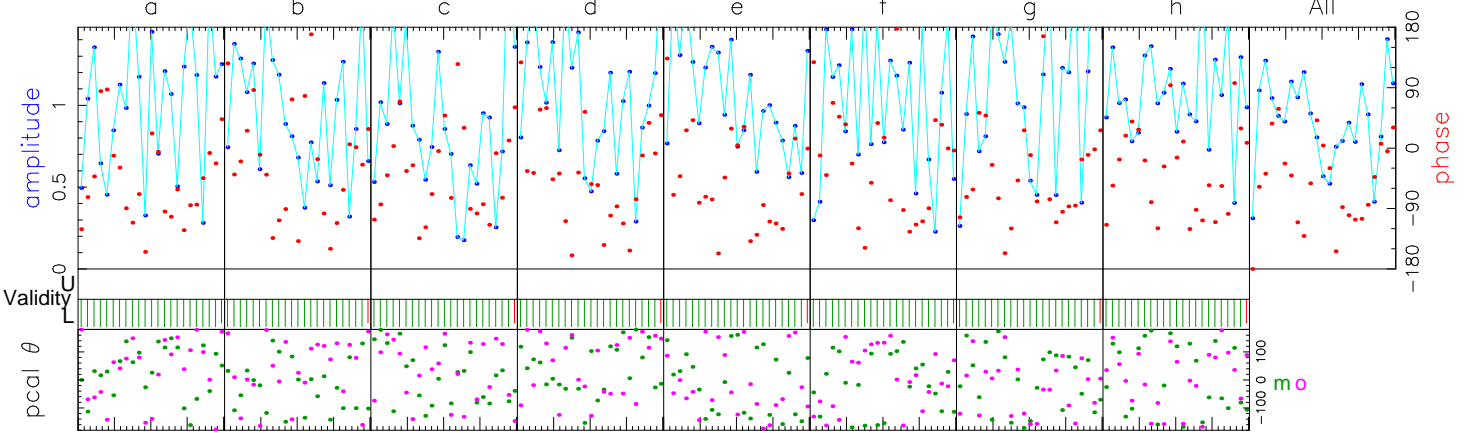
m: az 90.1 el 6.1 pa -70.3 n: az 149.9 el 46.2 pa -21.7 u,v (fr/asec) -6020.896 -2708.454 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mn..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mn.W.184.zpwvct



Fringe quality 9
 SNR 14.8
 Int time 239.988
 Amp 0.492
 Phase -48.0
 PFD 4.8e-41
 Delays (us)
 SBD -0.010196
 MBD -0.010204
 Fringe rate (Hz) 0.003174
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022828
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

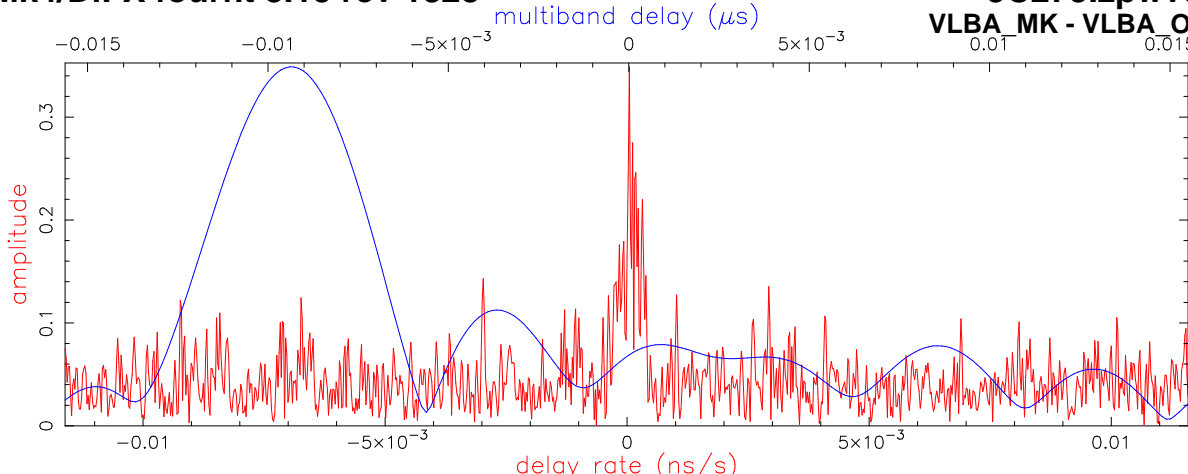


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-57.0	-46.6	-34.4	-44.4	-52.5	-37.6	-54.3	-48.0	Phase	-48.0
0.6	0.4	0.5	0.4	0.5	0.3	0.6	0.6	Ampl.	0.5
127.6	127.3	127.7	128.1	128.0	127.4	127.9	127.5	Sbd box	127.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
m W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
o W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-9.66193726396E+03	Apriori delay (usec)	-9.66192705971E+03	Resid mbdelay (usec)	-1.02043E-02	+/-	1.5E-04		
Sband delay (usec)	-9.66193725521E+03	Apriori clock (usec)	-1.1602410E+00	Resid sbdelay (usec)	-1.01955E-02	+/-	1.2E-03		
Phase delay (usec)	-9.66192706125E+03	Apriori clockrate (us/s)	-3.2258400E-07	Resid phdelay (usec)	-1.54771E-06	+/-	2.5E-07		
Delay rate (us/s)	5.54339976026E-01	Apriori rate (us/s)	5.54339939176E-01	Resid rate (us/s)	3.68499E-08	+/-	1.8E-09		
Total phase (deg)	-20.3	Apriori accel (us/s/s)	5.03271155888E-05	Resid phase (deg)	-48.0	+/-	7.8		

ph/seg (deg) 63.5 18.6 Theor. Amplitude 0.492 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.7 32.5 Search (1024X32) 0.449 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.7 11.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 21.4 19.2 Inc. seg. avg. 0.859 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 m: az 90.1 el 6.1 pa -70.3 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) -3142.461 -2216.325 ion window (TEC) 0.00 0.00
 simultaneous interpolator



Fringe quality 9

SNR 10.6

Int time 239.988

Amp 0.353

Phase -62.7

PFD 5.1e-18

Delays (us)

SBD -0.012742

MBD -0.009332

Fringe rate (Hz) 0.003358

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044000.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

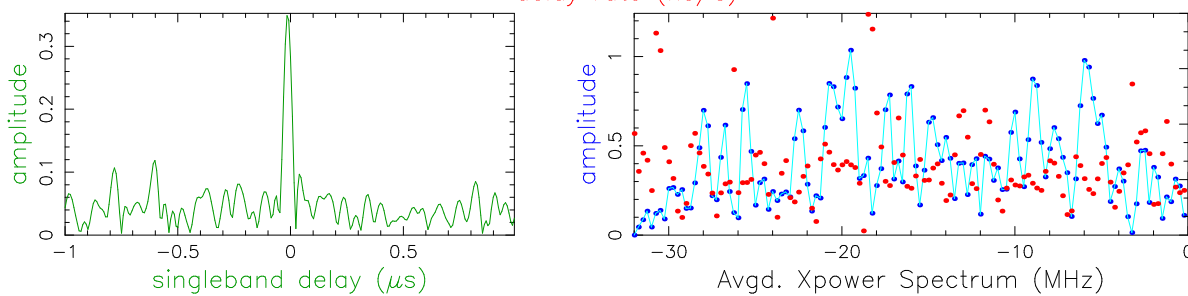
2017:215:022829

2017:188:152524

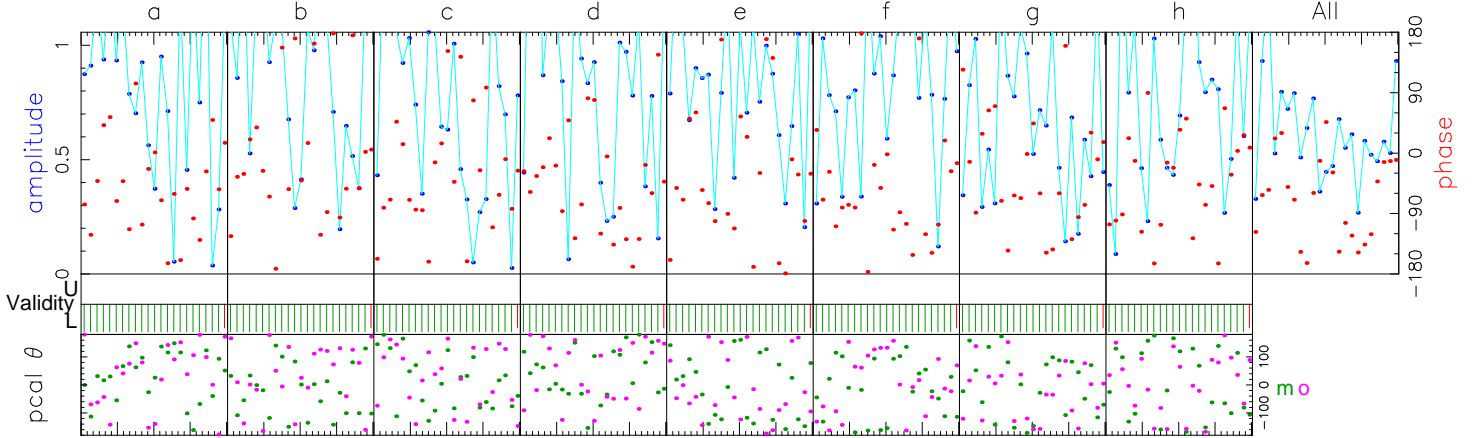
RA & Dec (J2000)

12h29m 6.6995"

+2°03' 8.598"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-62.0	-56.4	-59.3	-58.2	-69.6	-85.9	-59.0	-46.1	Phase	-62.7
0.4	0.3	0.3	0.5	0.2	0.3	0.3	0.3	Ampl.	0.3
127.7	125.8	128.0	126.9	190.6	127.8	127.1	127.6	Sbd box	127.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	

Group delay (usec)(sbd) -9.66193639140E+03 Apriori delay (usec) -9.66192705971E+03 Resid mbdelay (usec) -9.33169E-03 +/- 2.1E-04

Sband delay (usec) -9.66193980221E+03 Apriori clock (usec) -1.1602410E+00 Resid sbdelay (usec) -1.27425E-02 +/- 1.6E-03

Phase delay (usec) -9.66192706173E+03 Apriori clockrate (us/s) -3.2258400E-07 Resid phdelay (usec) -2.02155E-06 +/- 3.5E-07

Delay rate (us/s) 5.54339978158E-01 Apriori rate (us/s) 5.54339939176E-01 Resid rate (us/s) 3.89816E-08 +/- 2.5E-09

Total phase (deg) -35.0 Apriori accel (us/s/s) 5.03271155888E-05 Resid phase (deg) -62.7 +/- 10.9

RMS Theor. Amplitude 0.353 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 62.0 26.0 Search (1024X32) 0.329 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

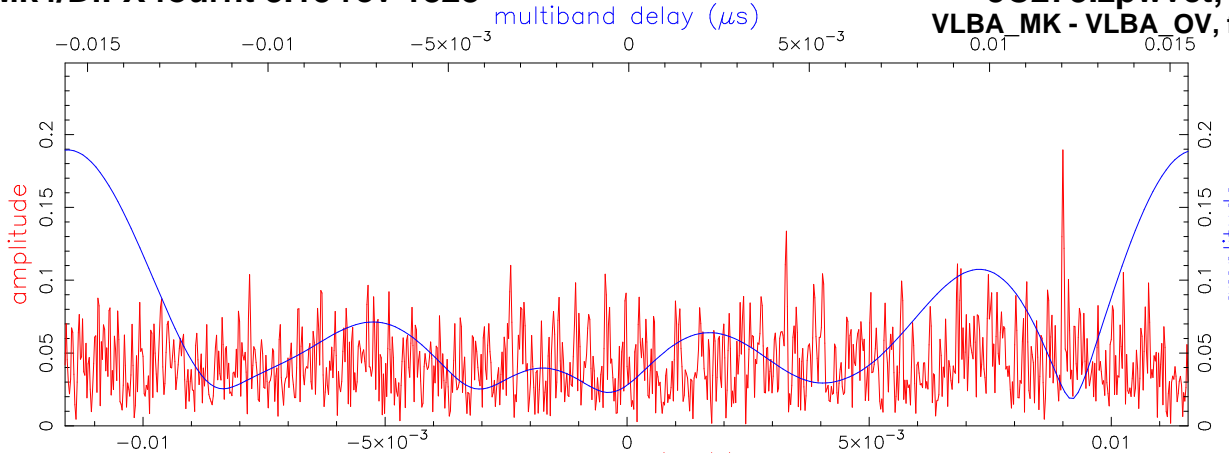
amp/seg (%) 98.0 45.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 12.6 15.3 Inc. seg. avg. 0.562 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012

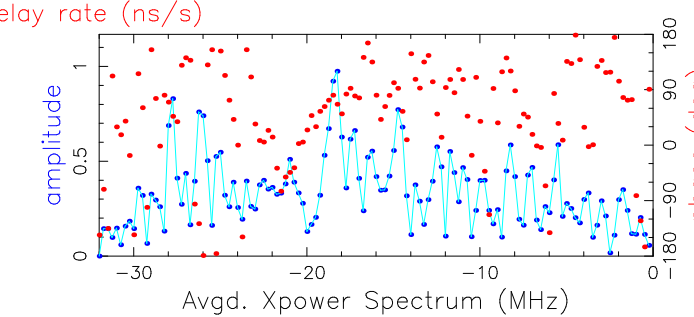
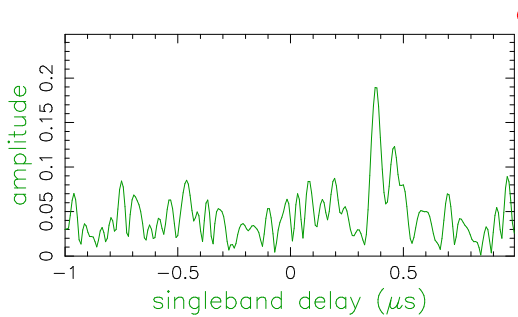
amp/frq (%) 23.0 26.8 Inc. frq. avg. 0.344 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) -3142.461 -2216.325 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mo..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mo.W.186.zpwvct

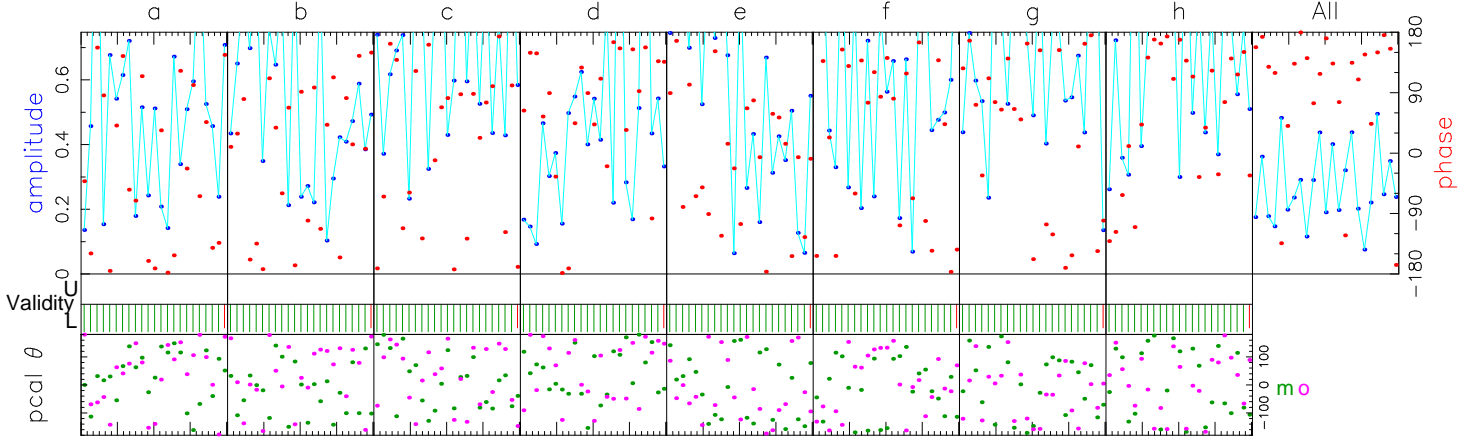


Fringe quality 0
SNR 5.7
Int time 239.988
Amp 0.249
Phase -2013.4
PFD 4.3e-01
Delays (us)
SBD 0.378710
MBD 0.015662
Fringe rate (Hz) 0.776211
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

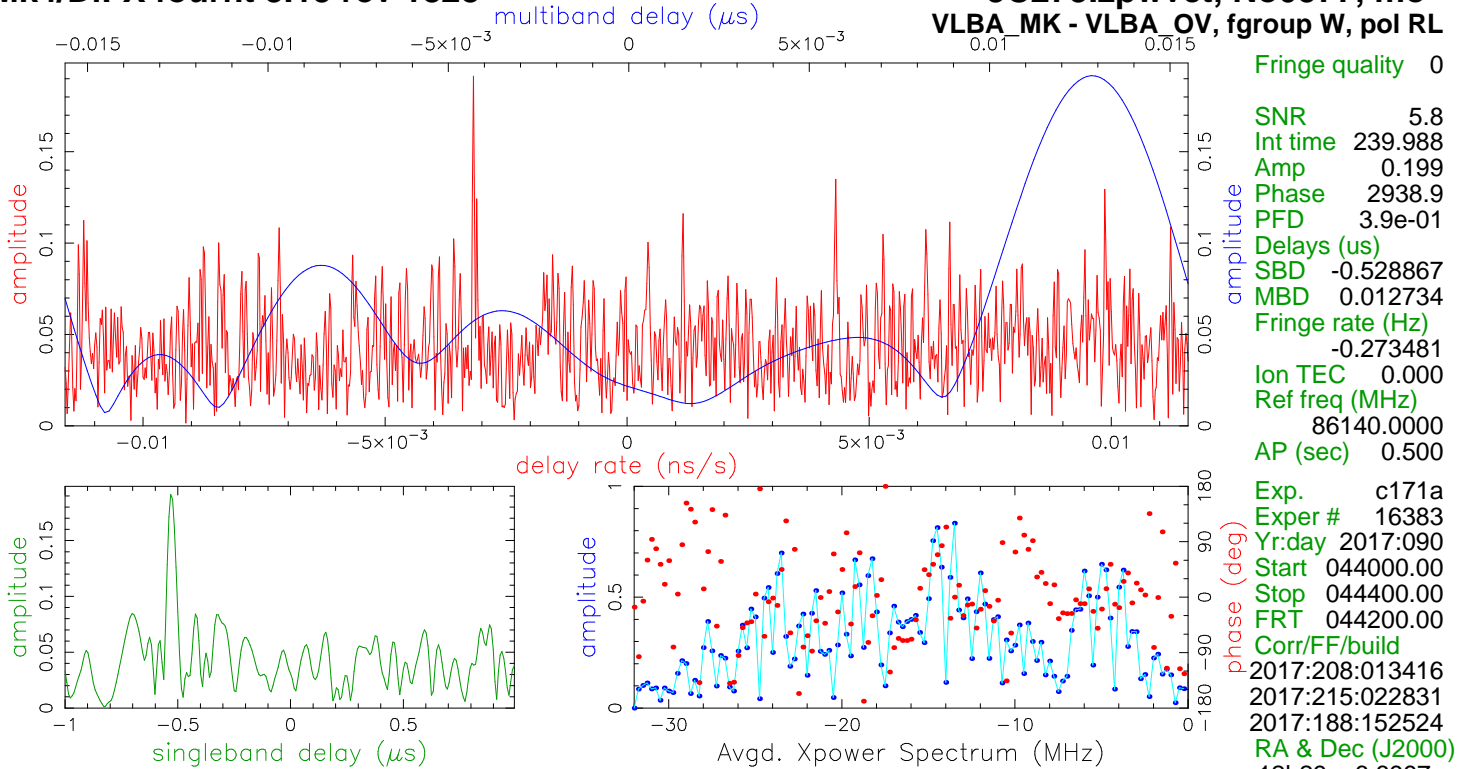


Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022830
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

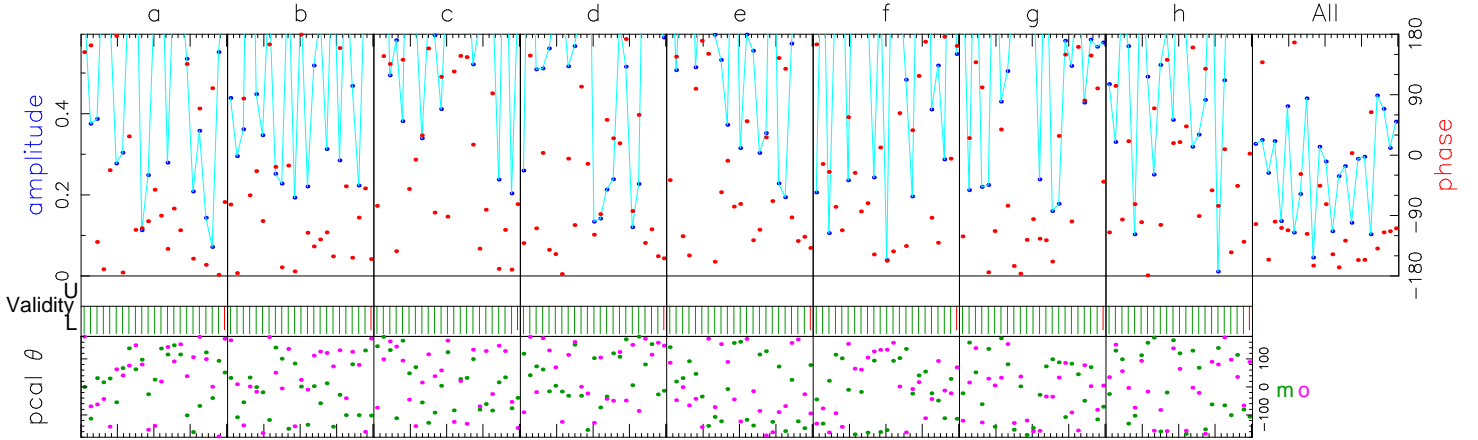
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-9.66153639821E+03				-9.66192705971E+03			1.56615E-02	+/- 3.8E-04
Sband delay (usec)		-9.66154834971E+03				-1.1602410E+00			3.78710E-01	+/- 3.0E-03
Phase delay (usec)		-9.66192705498E+03				-3.2258400E-07			4.72678E-06	+/- 6.4E-07
Delay rate (us/s)		5.54348950212E-01				5.54339939176E-01			9.01104E-06	+/- 4.6E-09
Total phase (deg)			-2345.8			5.03271155888E-05			-2013.4	+/- 19.9
	RMS	Theor.	Amplitude			0.249 +/- 0.043				
ph/seg (deg)	49.4	47.8	Search (1024X32)			0.176				
amp/seg (%)	74.0	83.4	Interp.			0.000				
ph/frq (deg)	46.6	28.2	Inc. seg. avg.			0.264				
amp/frq (%)	43.8	49.2	Inc. frq. avg.			0.246				
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00										



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



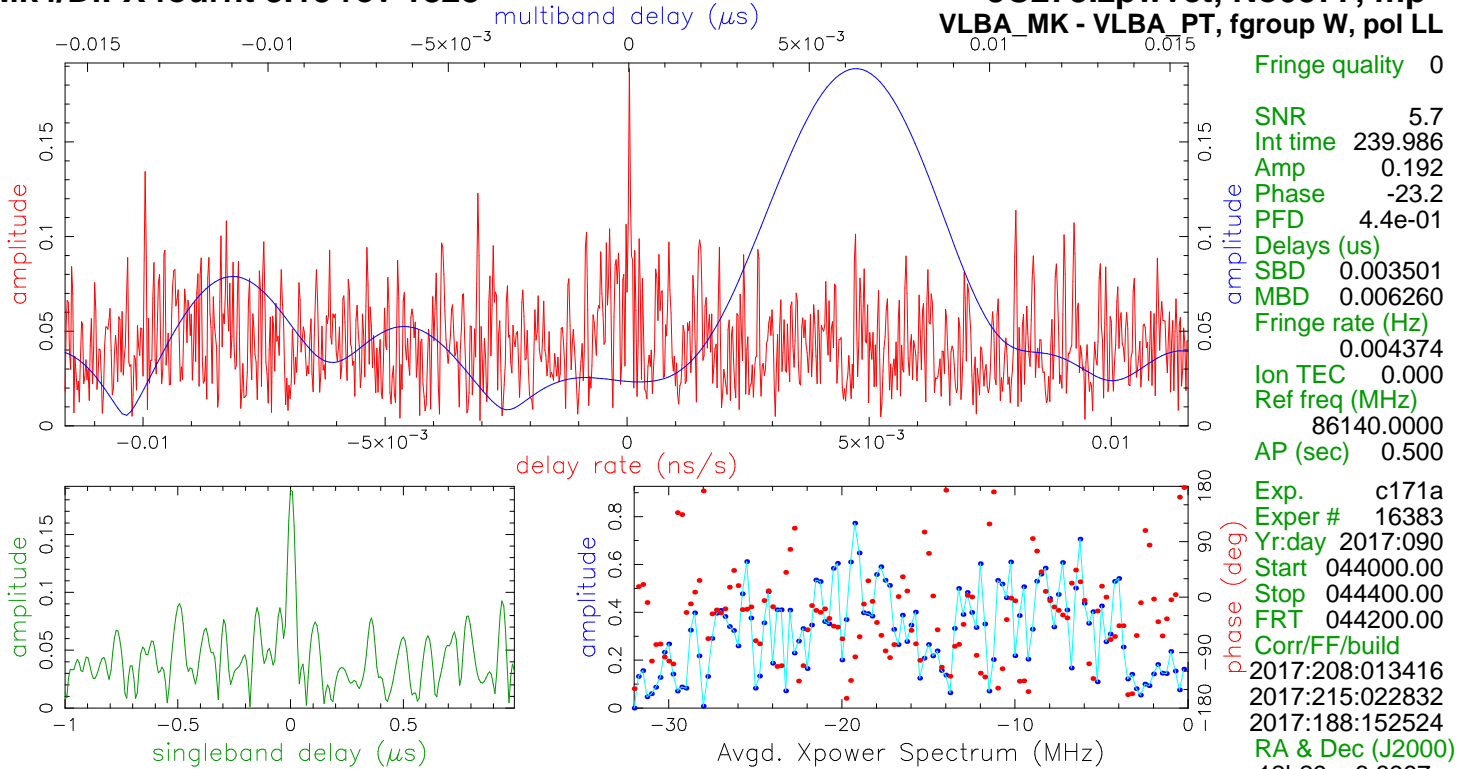
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-121.5	-109.2	-153.0	-129.2	-119.4	-89.7	-153.6	-77.4	Phase	-121.1
0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	Ampl.	0.2
81.9	60.4	2.0	46.9	92.2	56.2	62.2	41.0	Sbd box	61.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
m W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
o W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	

Group delay (usec)(sbd)	-9.66244557540E+03	Apriori delay (usec)	-9.66192705971E+03	Resid mbdelay (usec)	1.27343E-02	+/-	3.8E-04
Sband delay (usec)	-9.66245592621E+03	Apriori clock (usec)	-1.1602410E+00	Resid sbdelay (usec)	-5.28867E-01	+/-	3.0E-03
Phase delay (usec)	-9.66192706361E+03	Apriori clockrate (us/s)	-3.2258400E-07	Resid phdelay (usec)	-3.90659E-06	+/-	6.4E-07
Delay rate (us/s)	5.54336764327E-01	Apriori rate (us/s)	5.54339939176E-01	Resid rate (us/s)	-3.17485E-06	+/-	4.6E-09
Total phase (deg)	2966.5	Apriori accel (us/s/s)	5.03271155888E-05	Resid phase (deg)	2938.9	+/-	19.9

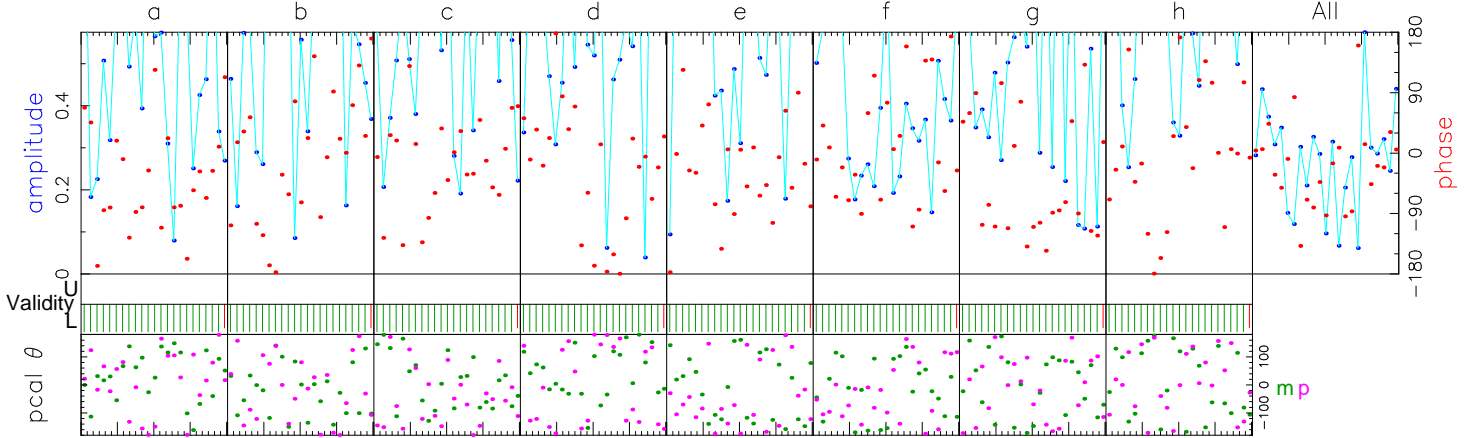
ph/seg (deg)	62.0	Theor.	47.6	Amplitude	0.199 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.4	Search (1024X32)	0.184	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	29.4	Inc. seg. avg.	0.206	Inc. frq. avg.	0.192	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	30.0					Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

m: az 90.1 el 6.1 pa -70.3 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) -3142.461 -2216.325 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mo...zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mo.W.188.zpwvct



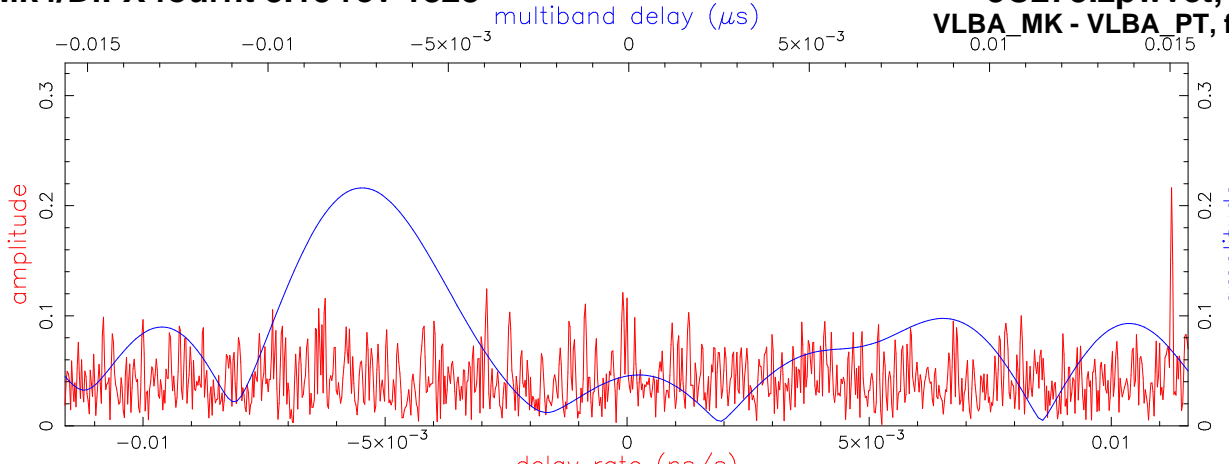
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



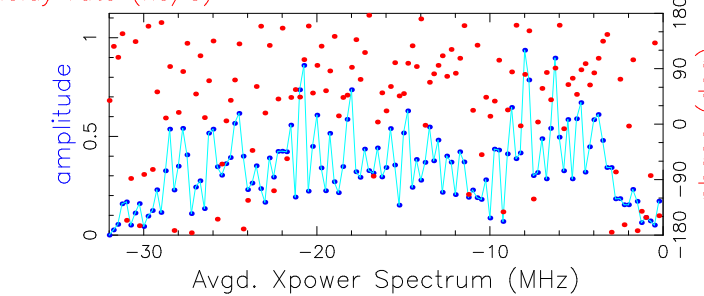
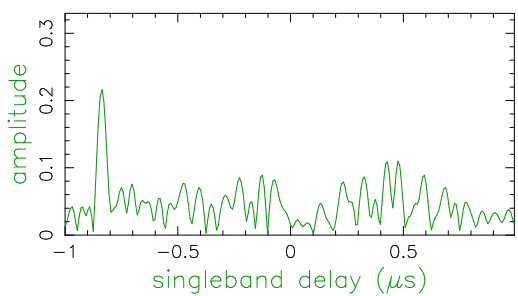
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-44.1	8.3	-22.8	-6.2	-18.6	-15.9	-79.4	-12.6	Phase	-23.2
0.2	0.1	0.3	0.3	0.3	0.3	0.1	0.2	Ampl.	0.2
52.0	29.3	128.7	202.0	129.7	30.5	104.9	65.5	Sbd box	129.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
m W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	-1.21318297184E+04	Apriori delay (usec)	-1.21318359785E+04	Resid mbdelay (usec)	6.26012E-03	+/-	3.8E-04		
Sband delay (usec)	-1.21318324775E+04	Apriori clock (usec)	-1.3573409E+00	Resid sbdelay (usec)	3.50100E-03	+/-	3.0E-03		
Phase delay (usec)	-1.21318359793E+04	Apriori clockrate (us/s)	-3.2927480E-07	Resid phdelay (usec)	-7.48489E-07	+/-	6.4E-07		
Delay rate (us/s)	6.90875066747E-01	Apriori rate (us/s)	6.90875015969E-01	Resid rate (us/s)	5.07778E-08	+/-	4.6E-09		
Total phase (deg)	-91.6	Apriori accel (us/s/s)	6.36190300173E-05	Resid phase (deg)	-23.2	+/-	20.0		

ph/seg (deg)	62.5	Theor.	47.8	Amplitude	0.192 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	76.5	Search (1024X32)	0.182	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	29.1	Interp.	0.000	Inc. seg. avg.	0.203	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	45.7	Inc. frq. avg.	0.179	Inc. frq. avg.	0.179	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

m: az 90.1 el 6.1 pa -70.3 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) -3915.638 -1813.756 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mp..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mp.W.189.zpwvct

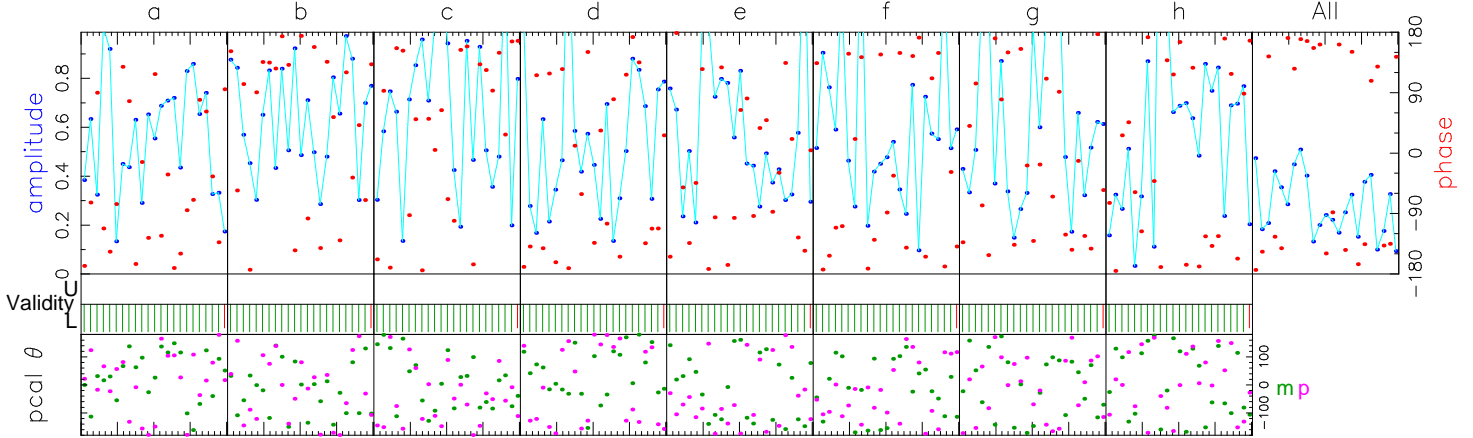


Fringe quality 0
 SNR 6.5
 Int time 239.986
 Amp 0.330
 Phase 4683.6
 PFD 6.2e-03
 Delays (us)
 SBD -0.837063
 MBD -0.007442
 Fringe rate (Hz) 0.968326
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022833
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

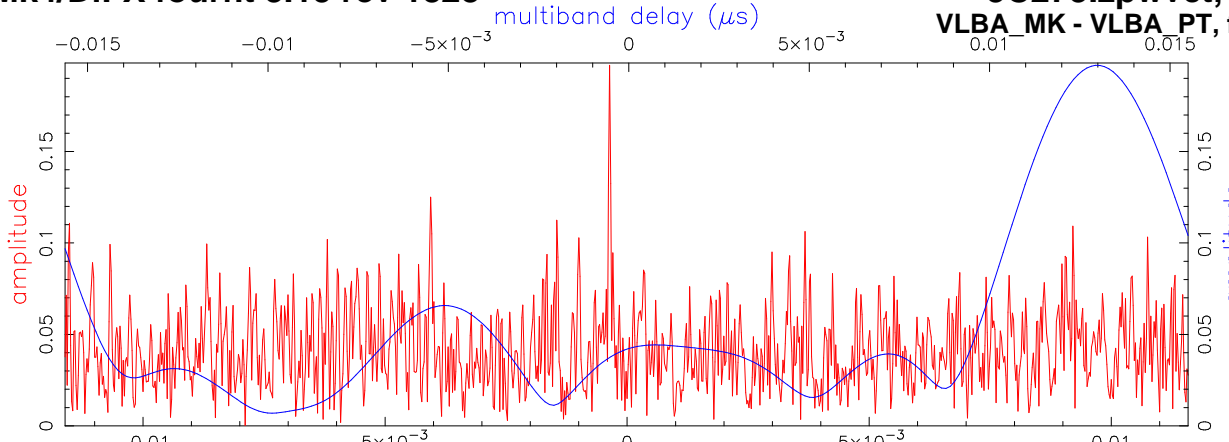


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-126.4	159.3	123.0	-168.7	-161.6	-171.3	-136.8	175.1	Phase	-176.4
	0.3	0.4	0.3	0.4	0.3	0.5	0.2	0.6	Ampl.	0.3
	183.6	183.1	247.6	23.1	130.5	38.4	67.4	21.1	Sbd box	21.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	

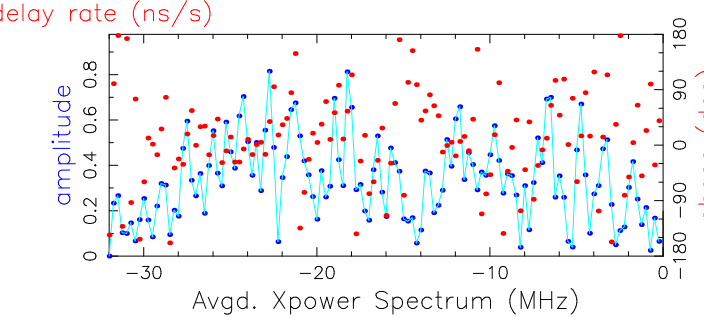
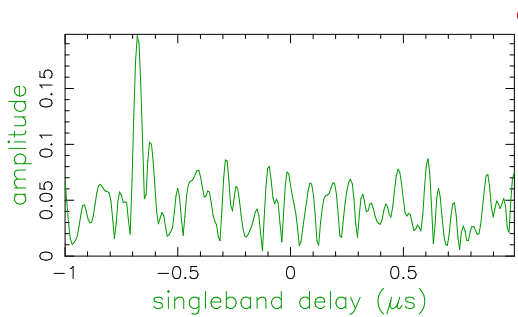
Group delay (usec)(sbd) -1.21326871701E+04 Apriori delay (usec) -1.21318359785E+04 Resid mbdelay (usec) -7.44158E-03 +/- 3.3E-04
 Sband delay (usec) -1.21326730415E+04 Apriori clock (usec) -1.3573409E+00 Resid sbdelay (usec) -8.37063E-01 +/- 2.7E-03
 Phase delay (usec) -1.21318359842E+04 Apriori clockrate (us/s) -3.2927480E-07 Resid phdelay (usec) -5.68947E-06 +/- 5.7E-07
 Delay rate (us/s) 6.90886257278E-01 Apriori rate (us/s) 6.90875015969E-01 Resid rate (us/s) 1.12413E-05 +/- 4.1E-09
 Total phase (deg) 4615.2 Apriori accel (us/s/s) 6.36190300173E-05 Resid phase (deg) 4683.6 +/- 17.7

RMS Theor. Amplitude 0.330 +/- 0.051 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 40.7 42.4 Search (1024X32) 0.210 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.7 74.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 38.1 25.0 Inc. seg. avg. 0.337 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 (%) 40.6 43.6 Inc. frq. avg. 0.341 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) -3915.638 -1813.756 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mp..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mp.W.190.zpwvct

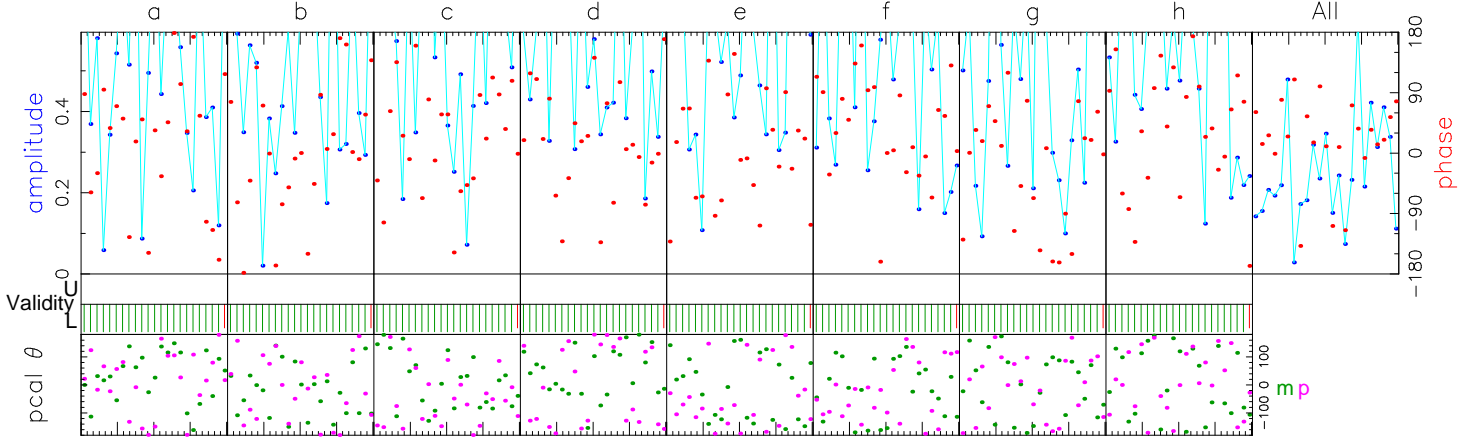


Fringe quality 0
 SNR 5.9
 Int time 239.986
 Amp 0.198
 Phase 3990.9
 PFD 1.7e-01
 Delays (us)
 SBD -0.677549
 MBD 0.012984
 Fringe rate (Hz)
 -0.031799
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022834
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

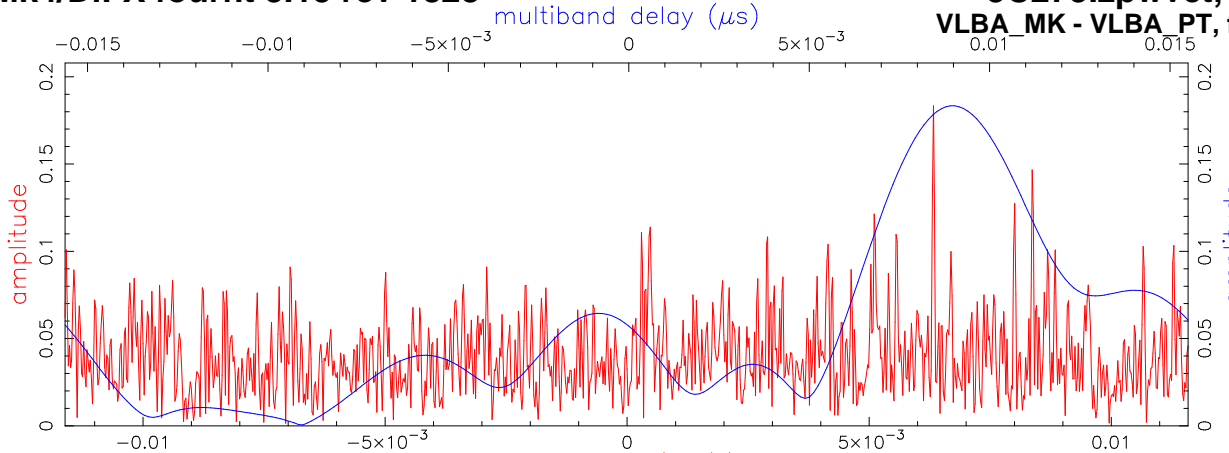


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

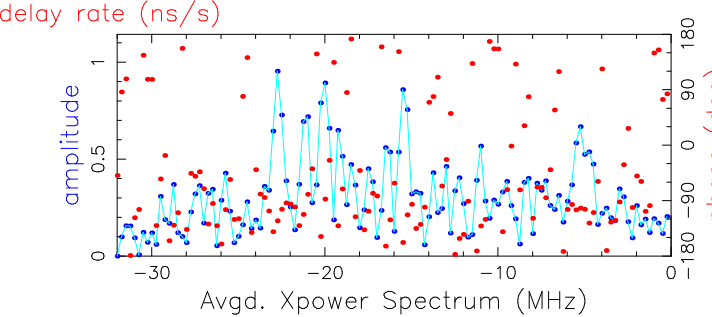
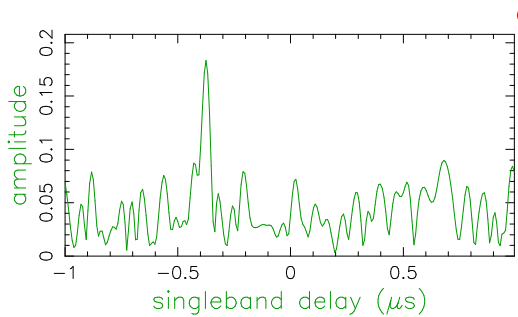
Group delay (usec)(sbd) -1.21325104948E+04 Apriori delay (usec) -1.21318359785E+04 Resid mbdelay (usec) 1.29837E-02 +/- 3.7E-04
 Sband delay (usec) -1.21325135270E+04 Apriori clock (usec) -1.3573409E+00 Resid sbdelay (usec) -6.77549E-01 +/- 2.9E-03
 Phase delay (usec) -1.21318359775E+04 Apriori clockrate (us/s) -3.2927480E-07 Resid phdelay (usec) 9.96795E-07 +/- 6.2E-07
 Delay rate (us/s) 6.90874646811E-01 Apriori rate (us/s) 6.90875015969E-01 Resid rate (us/s) -3.69158E-07 +/- 4.5E-09
 Total phase (deg) 3922.5 Apriori accel (us/s/s) 6.36190300173E-05 Resid phase (deg) 3990.9 +/- 19.3

RMS Theor. Amplitude 0.198 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.6 46.2 Search (1024X32) 0.189 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 74.2 80.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 22.6 27.3 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
 amp/frq (%) 23.8 47.6 Inc. frq. avg. 0.188 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) -3915.638 -1813.756 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mp..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mp.W.191.zpwvct

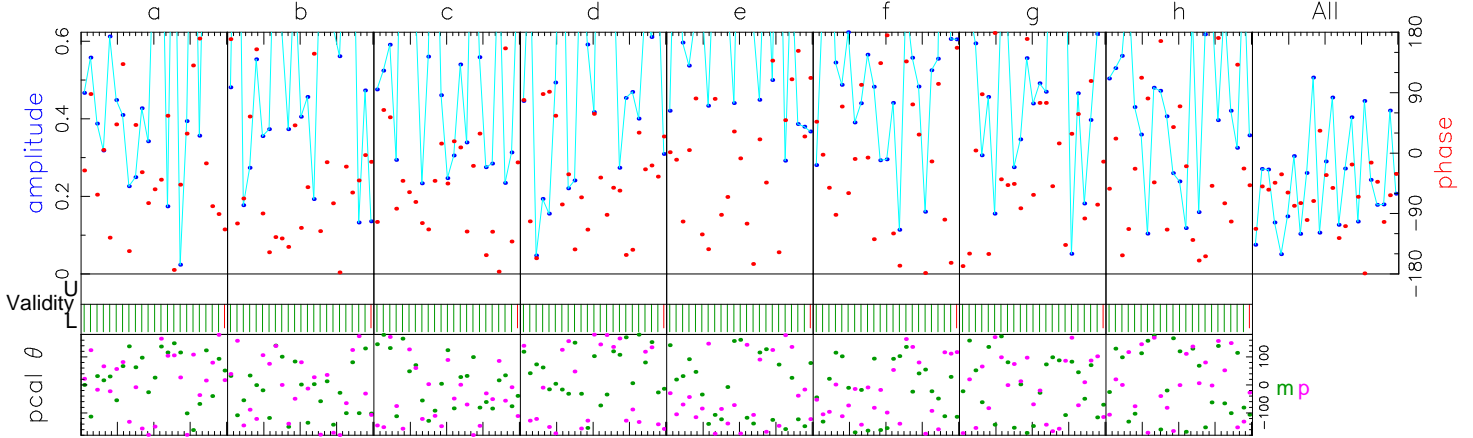


Fringe quality 0
 SNR 5.5
 Int time 239.986
 Amp 0.208
 Phase 2096.2
 PFD 9.0e-01
 Delays (us)
 SBD -0.374983
 MBD 0.008974
 Fringe rate (Hz)
 0.545131
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022835
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

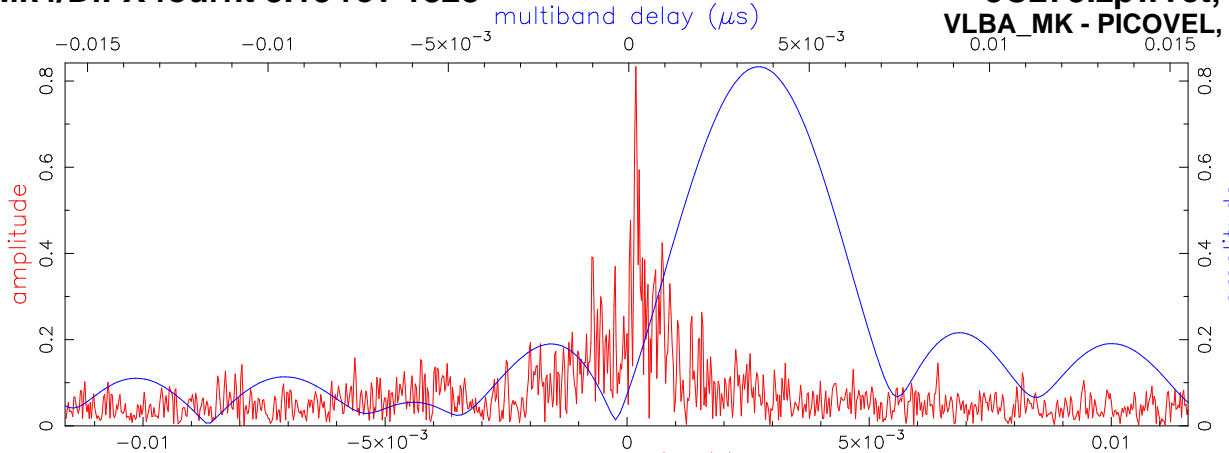


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-66.9	-90.3	-44.5	-54.1	-48.9	-56.5	-58.1	-87.4	Phase	-63.8
	0.2	0.3	0.3	0.4	0.1	0.2	0.2	0.2	Ampl.	0.2
	193.8	213.0	80.9	34.2	255.6	160.7	231.4	207.9	Sbd box	81.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

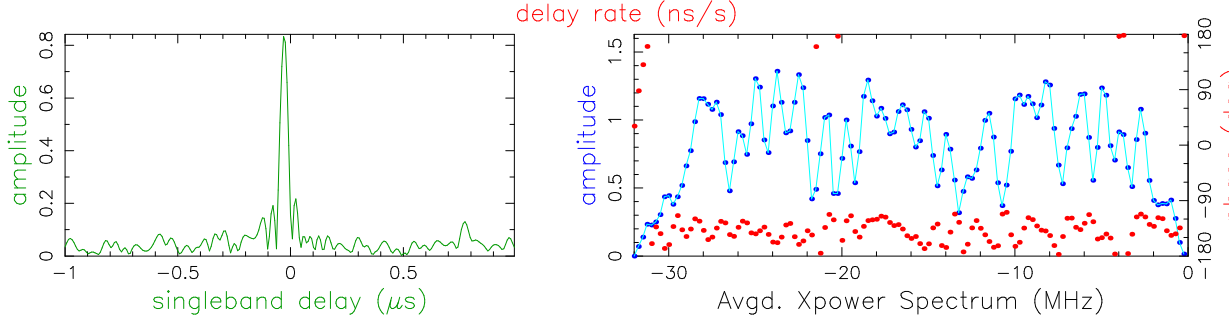
Group delay (usec)(sbd) -1.21322020044E+04 Apriori delay (usec) -1.21318359785E+04 Resid mbdelay (usec) 8.97416E-03 +/- 4.0E-04
 Sband delay (usec) -1.21322109620E+04 Apriori clock (usec) -1.3573409E+00 Resid sbdelay (usec) -3.74983E-01 +/- 3.1E-03
 Phase delay (usec) -1.21318359806E+04 Apriori clockrate (us/s) -3.2927480E-07 Resid phdelay (usec) -2.05840E-06 +/- 6.7E-07
 Delay rate (us/s) 6.90881344405E-01 Apriori rate (us/s) 6.90875015969E-01 Resid rate (us/s) 6.32844E-06 +/- 4.9E-09
 Total phase (deg) 2027.8 Apriori accel (us/s/s) 6.36190300173E-05 Resid phase (deg) 2096.2 +/- 20.9

RMS Theor. Amplitude 0.208 +/- 0.038 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 43.4 50.0 Search (1024X32) 0.178 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 77.5 87.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 18.5 29.5 Inc. seg. avg. 0.200 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 (%) 44.5 51.5 Inc. frq. avg. 0.192 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

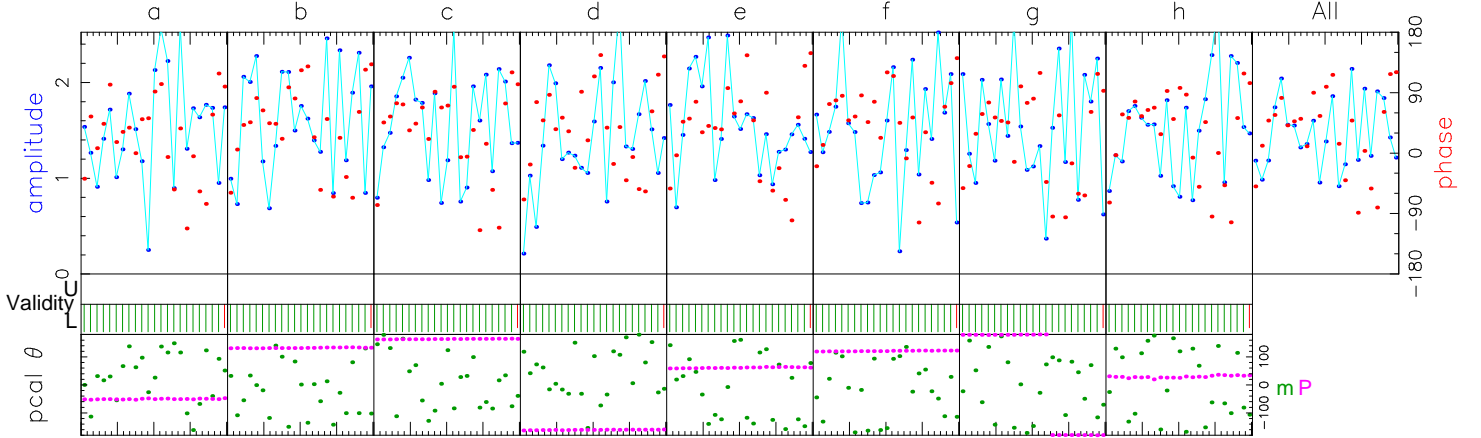
m: az 90.1 el 6.1 pa -70.3 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) -3915.638 -1813.756 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mp..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mp.W.192.zpwvct



Fringe quality 7
 SNR 25.2
 Int time 239.589
 Amp 0.842
 Phase 224.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.028557
 MBD 0.003616
 Fringe rate (Hz) 0.015517
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022836
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"

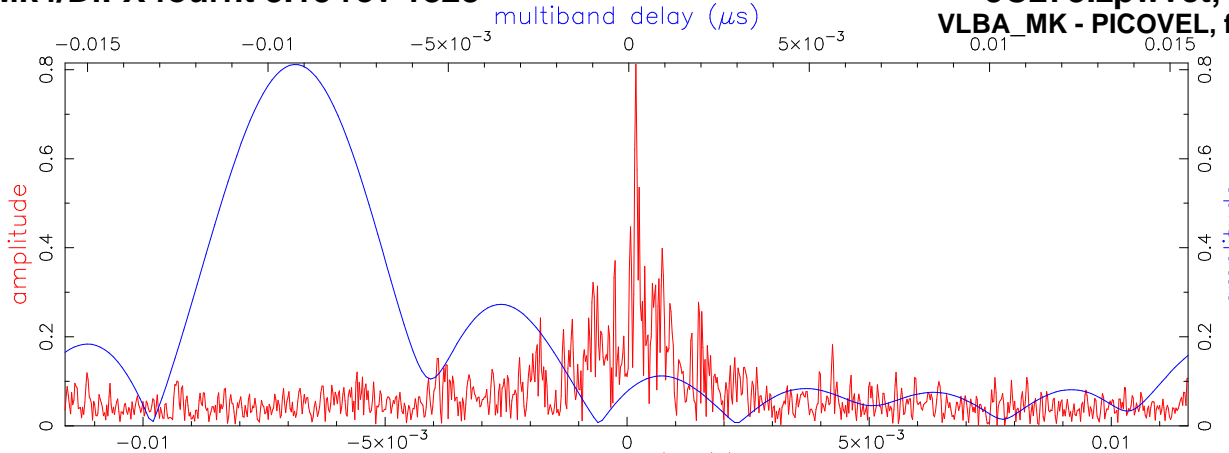


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

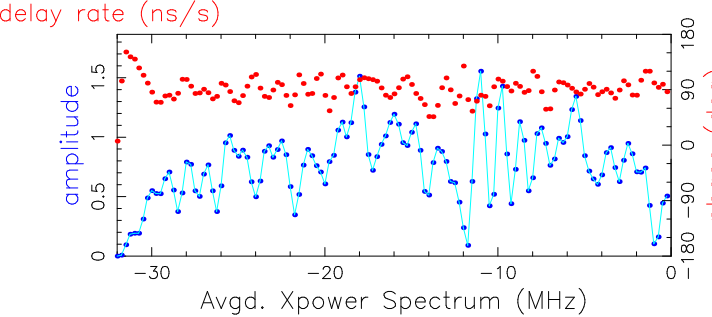
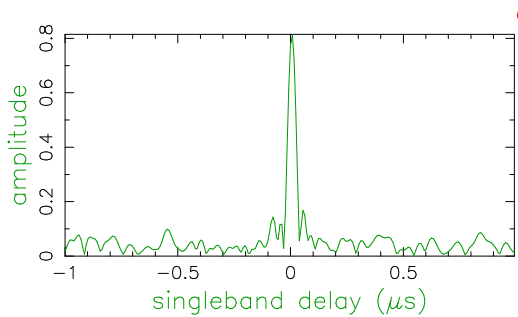


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	32.8	51.0	54.7	36.9	49.8	54.8	31.5	42.3	Phase	44.7
	0.9	1.0	0.9	0.7	0.8	0.9	0.8	0.8	Ampl.	0.8
	125.4	125.0	125.4	125.6	125.4	124.8	125.0	125.9	Sbd box	125.3
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.26160250121E+03		Apriori delay (usec)		-4.26157486700E+03		Resid mbdelay (usec)		3.61578E-03	+/- 8.6E-05
Sband delay (usec)	-4.26160342400E+03		Apriori clock (usec)		6.0046506E-01		Resid sbdelay (usec)		-2.85570E-02	+/- 6.8E-04
Phase delay (usec)	-4.26157486555E+03		Apriori clockrate (us/s)		-5.8474010E-07		Resid phdelay (usec)		1.44304E-06	+/- 1.5E-07
Delay rate (us/s)	2.60339778424E+00		Apriori rate (us/s)		2.60339760411E+00		Resid rate (us/s)		1.80133E-07	+/- 1.1E-09
Total phase (deg)	209.3		Apriori accel (us/s/s)		2.16295716974E-05		Resid phase (deg)		224.7	+/- 4.5

ph/seg (deg) 61.6 10.9 Theor. Amplitude 0.842 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.3 19.0 Search (1024X32) 0.821 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.4 6.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 8.1 11.2 Inc. seg. avg. 1.440 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 m: az 90.1 el 6.1 pa -70.3 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -14903.475 -2268.063 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mP.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mP.W.193.zpwvct

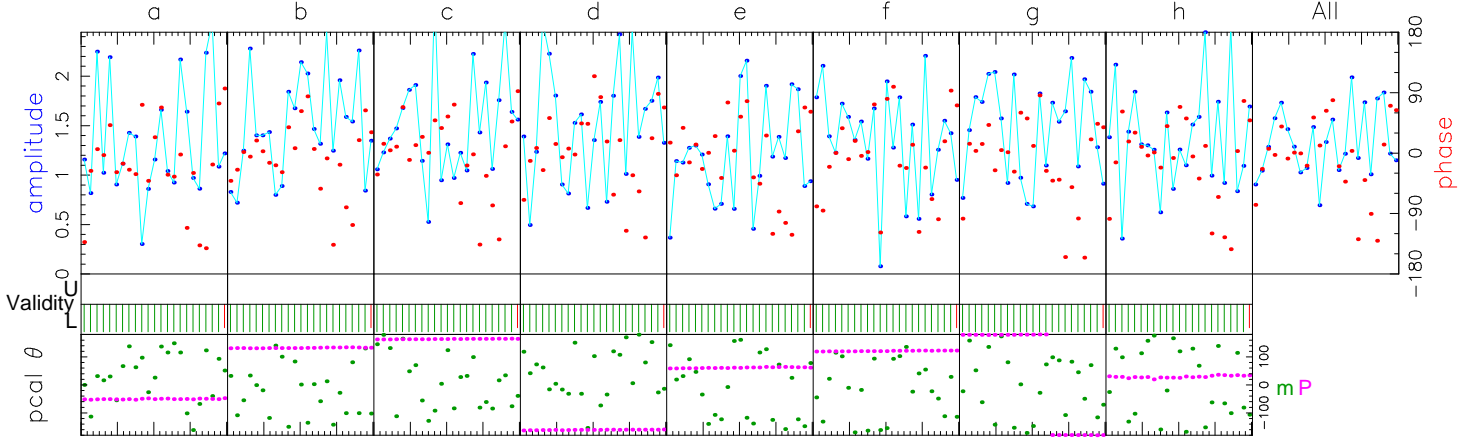


Fringe quality 7
 SNR 24.4
 Int time 239.589
 Amp 0.815
 Phase 1.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.006150
 MBD -0.009253
 Fringe rate (Hz) 0.015508
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022838
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



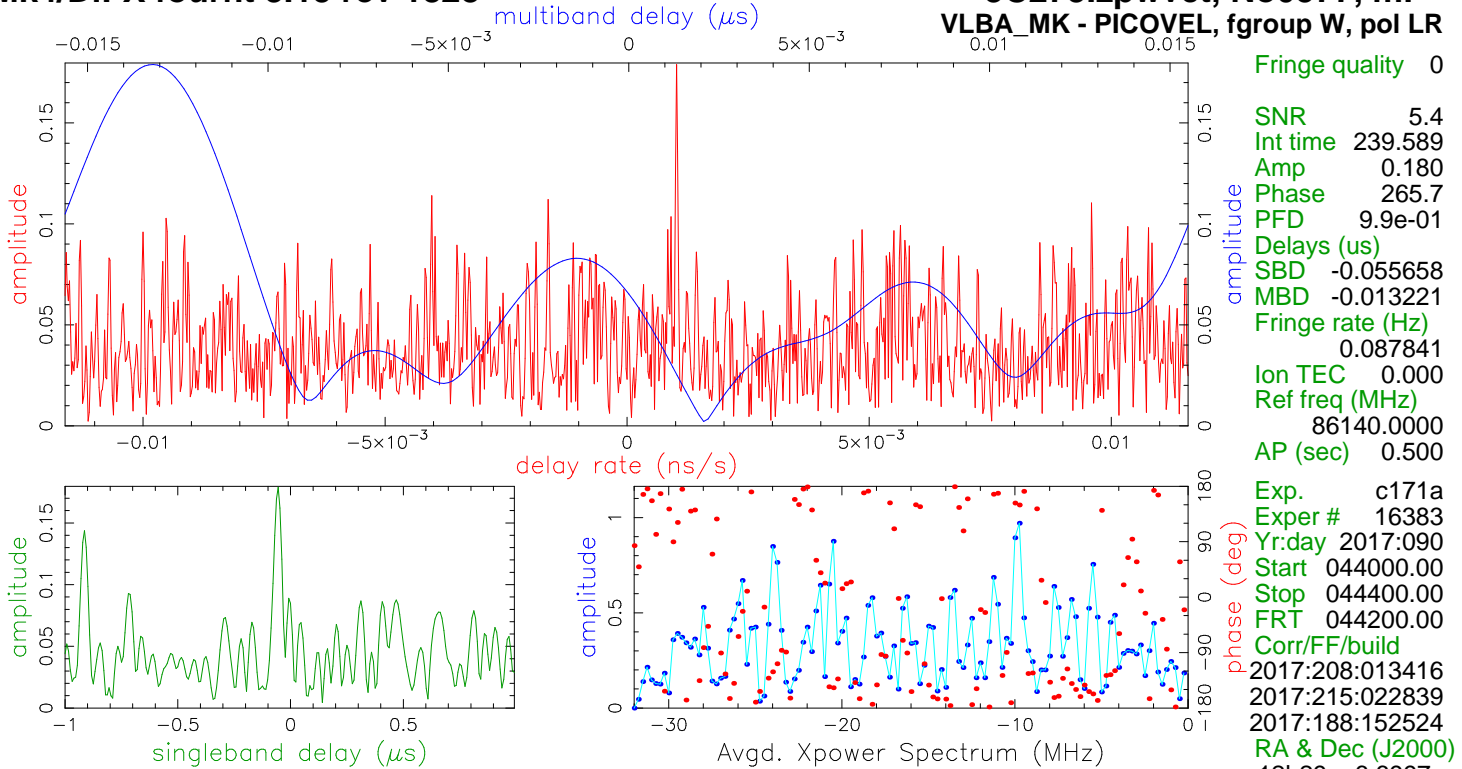
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-13.2	0.3	10.0	7.8	7.6	1.3	-5.3	-1.4	Phase	1.1
	0.7	1.0	0.9	0.9	0.6	0.8	0.8	0.8	Ampl.	0.8
	129.7	129.8	130.1	129.5	129.8	129.7	129.6	129.9	Sbd box	129.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	-4.26158412040E+03	Apriori delay (usec)	-4.26157486700E+03	Resid mbdelay (usec)	-9.25340E-03	+/-	8.9E-05
Sband delay (usec)	-4.26156871650E+03	Apriori clock (usec)	6.0046506E-01	Resid sbdelay (usec)	6.15050E-03	+/-	7.1E-04
Phase delay (usec)	-4.26157486696E+03	Apriori clockrate (us/s)	-5.8474010E-07	Resid phdelay (usec)	3.61960E-08	+/-	1.5E-07
Delay rate (us/s)	2.60339778414E+00	Apriori rate (us/s)	2.60339760411E+00	Resid rate (us/s)	1.80033E-07	+/-	1.1E-09
Total phase (deg)	-14.4	Apriori accel (us/s/s)	2.16295716974E-05	Resid phase (deg)	1.1	+/-	4.7

ph/seg (deg)	57.7	Theor.	11.3	Amplitude	0.815 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	75.2	Search (1024X32)	0.790	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	8.4	Interp.	0.000	Inc. seg. avg.	1.308	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	15.3	Inc. frq. avg.	0.813	Inc. frq. avg.	0.813	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

m: az 90.1 el 6.1 pa -70.3 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -14903.475 -2268.063 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mP..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mP.W.194.zpwvct



Fringe quality 0

SNR 5.4

Int time 239.589

Amp 0.180

Phase 265.7

PFD 9.9e-01

Delays (us)

SBD -0.055658

MBD -0.013221

Fringe rate (Hz) 0.087841

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044000.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

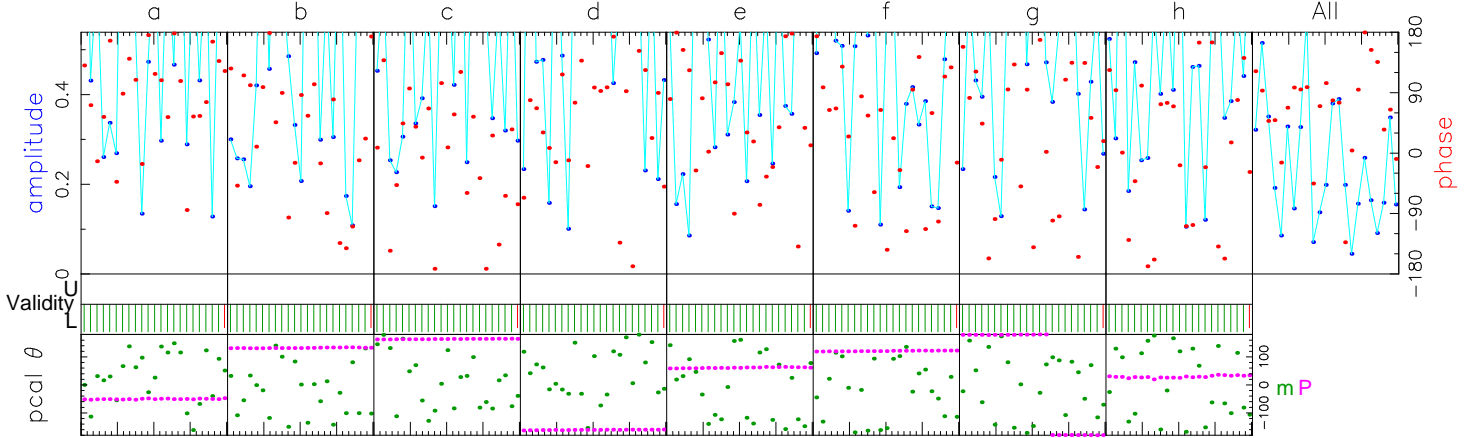
2017:208:013416

2017:215:022839

2017:188:152524

RA & Dec (J2000) 12h29m 6.6997s +2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	-4.26161933787E+03		Apriori delay (usec)		-4.26157486700E+03		Resid mbdelay (usec)		-1.32209E-02	+/- 4.0E-04
Sband delay (usec)	-4.26163052500E+03		Apriori clock (usec)		6.0046506E-01		Resid sbdelay (usec)		-5.56580E-02	+/- 3.2E-03
Phase delay (usec)	-4.26157486423E+03		Apriori clockrate (us/s)		-5.8474010E-07		Resid phdelay (usec)		2.76221E-06	+/- 6.9E-07
Delay rate (us/s)	2.60339862386E+00		Apriori rate (us/s)		2.60339760411E+00		Resid rate (us/s)		1.01975E-06	+/- 5.0E-09
Total phase (deg)	250.2		Apriori accel (us/s/s)		2.16295716974E-05		Resid phase (deg)		265.7	+/- 21.4

ph/seg (deg) 61.4 51.2 Search (1024X32) 0.176 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

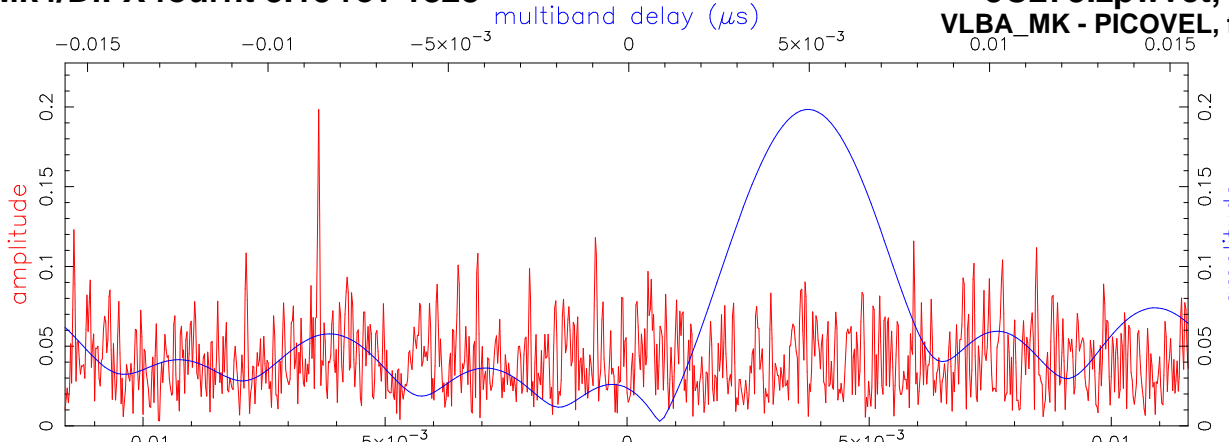
amp/seg (%) 85.7 89.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 29.7 30.2 Inc. seg. avg. 0.175 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 55.5 52.8 Inc. frq. avg. 0.171 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

m: az 90.1 el 6.1 pa -70.3 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -14903.475 -2268.063 simultaneous interpolator

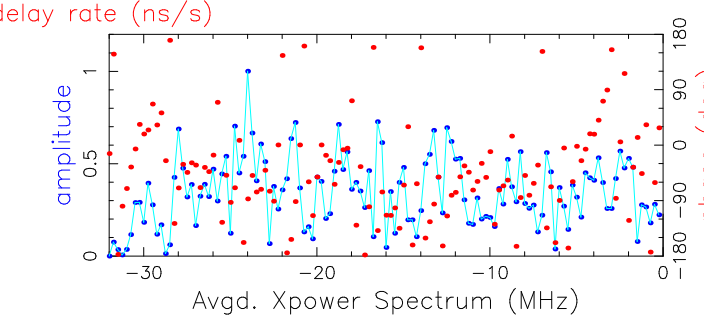
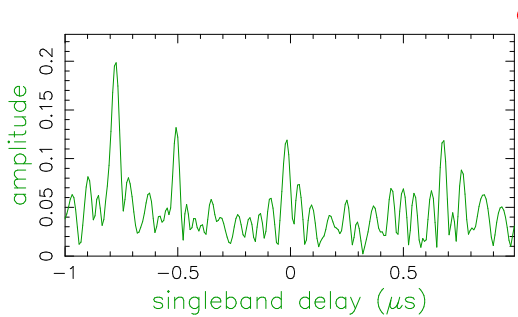
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mP.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mP.W.195.zpwvct



Fringe quality 0

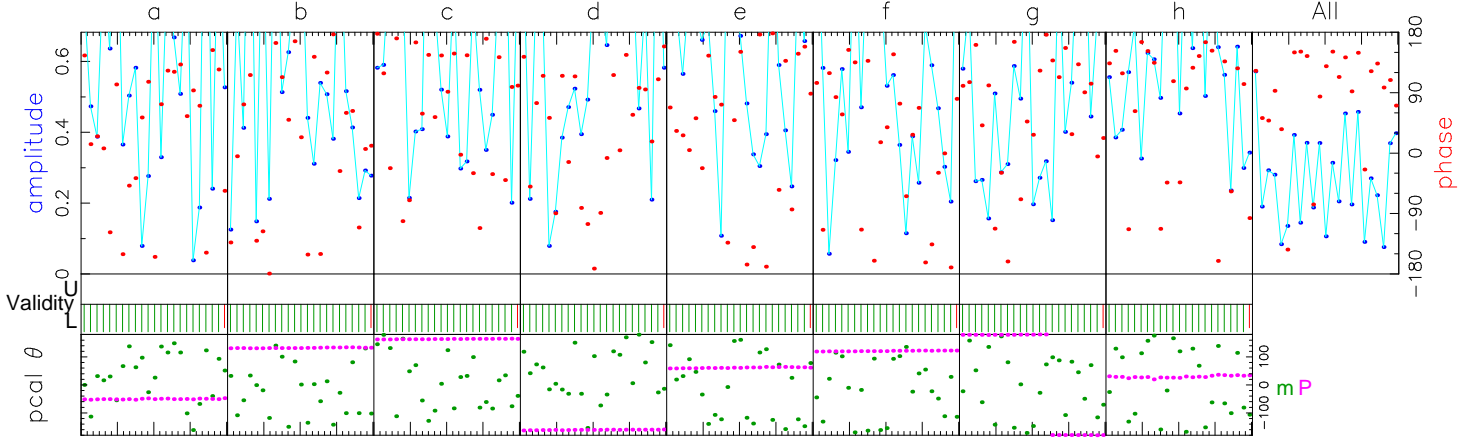
SNR 6.0
Int time 239.589
Amp 0.228
Phase 4618.3
PFD 1.2e-01
Delays (us)
SBD -0.776354
MBD 0.004941
Fringe rate (Hz)
-0.548820
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022840
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



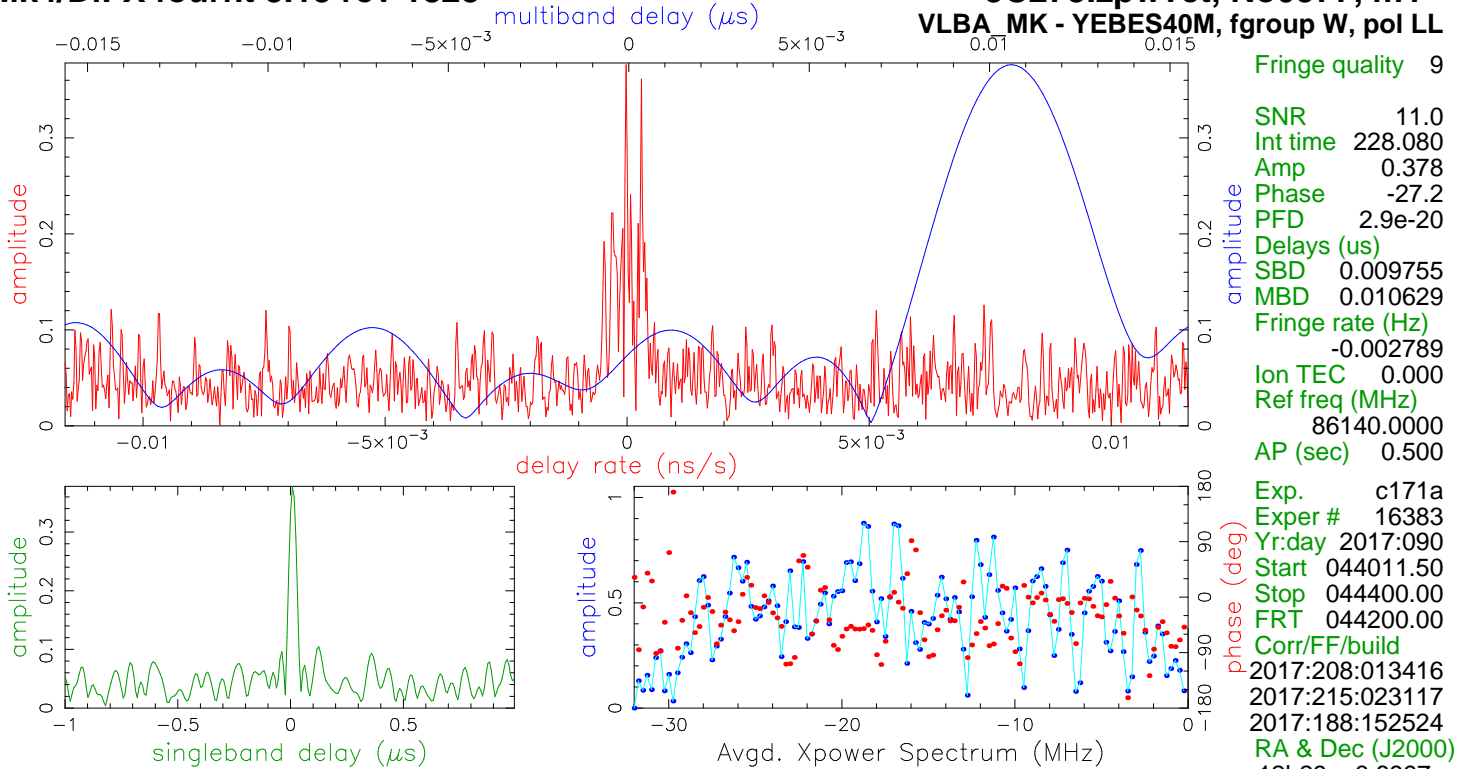
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	140.6	118.3
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.4	0.2
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	159.7	29.6
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	PC phase
m:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	PC amp
m	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	Tracks
P	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	Tracks
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

Group delay (usec)(sbd)	-4.26235117553E+03	Apriori delay (usec)	-4.26157486700E+03	Resid mbdelay (usec)	4.94147E-03	+/-	3.6E-04
Sband delay (usec)	-4.26235122150E+03	Apriori clock (usec)	6.0046506E-01	Resid sbdelay (usec)	-7.76354E-01	+/-	2.9E-03
Phase delay (usec)	-4.26157486318E+03	Apriori clockrate (us/s)	-5.8474010E-07	Resid phdelay (usec)	3.81396E-06	+/-	6.2E-07
Delay rate (us/s)	2.60339123285E+00	Apriori rate (us/s)	2.60339760411E+00	Resid rate (us/s)	-6.37126E-06	+/-	4.4E-09
Total phase (deg)	4602.8	Apriori accel (us/s/s)	2.16295716974E-05	Resid phase (deg)	4618.3	+/-	19.1

ph/seg (deg)	60.7	Theor.	45.8	Amplitude	0.228 +/- 0.038	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	74.9	Search (1024X32)	0.195	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	17.5	Interp.	0.000	Inc. seg. avg.	0.231	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	32.2	Inc. frq. avg.	0.211	Inc. frq. avg.	0.211	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

m: az 90.1 el 6.1 pa -70.3 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -14903.475 -2268.063 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mP.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mP.W.196.zpwvct



Fringe quality 9

SNR 11.0

Int time 228.080

Amp 0.378

Phase -27.2

PFD 2.9e-20

Delays (us)

SBD 0.009755

MBD 0.010629

Fringe rate (Hz)

-0.002789

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044011.50

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

2017:215:023117

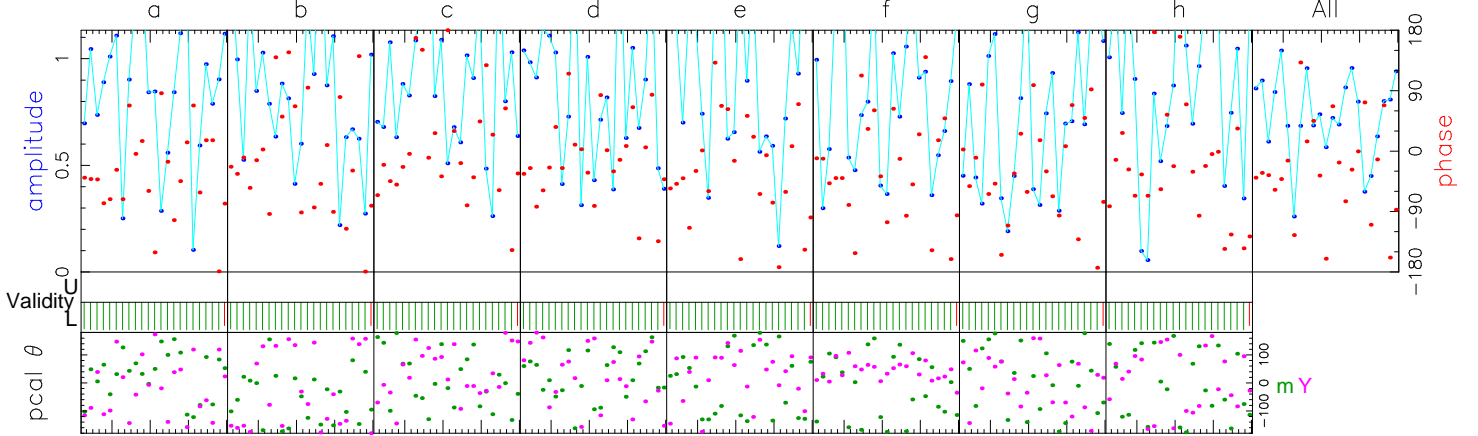
2017:188:152524

RA & Dec (J2000)

12h29m 6.6997s

+2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-31.9	-37.5	-24.7	-6.0	-30.7	-23.6	-40.3	-33.1	Phase	-27.2
	0.5	0.4	0.4	0.5	0.3	0.3	0.3	0.4	Ampl.	0.4
	130.3	130.2	130.9	129.7	182.2	129.5	191.4	130.9	Sbd box	130.2
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.92083674886E+03		Apriori delay (usec)		-3.92084737803E+03		Resid mbdelay (usec)		1.06292E-02	+/- 2.0E-04
Sband delay (usec)	-3.92083762253E+03		Apriori clock (usec)		-2.7472239E+00		Resid sbdelay (usec)		9.75550E-03	+/- 1.6E-03
Phase delay (usec)	-3.92084737891E+03		Apriori clockrate (us/s)		-5.2474008E-07		Resid phdelay (usec)		-8.76998E-07	+/- 3.3E-07
Delay rate (us/s)	2.55100163331E+00		Apriori rate (us/s)		2.55100166569E+00		Resid rate (us/s)		-3.23790E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.96198588976E-05		Resid phase (deg)		-27.2	+/- 10.4

RMS Theor. Amplitude 0.378 +/- 0.034

ph/seg (deg) 72.3 24.9 Search (1024X32) 0.356

amp/seg (%) 106.2 43.4 Interp. 0.000

ph/frq (deg) 11.6 14.7 Inc. seg. avg. 0.670

amp/frq (%) 22.9 25.6 Inc. frq. avg. 0.371

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

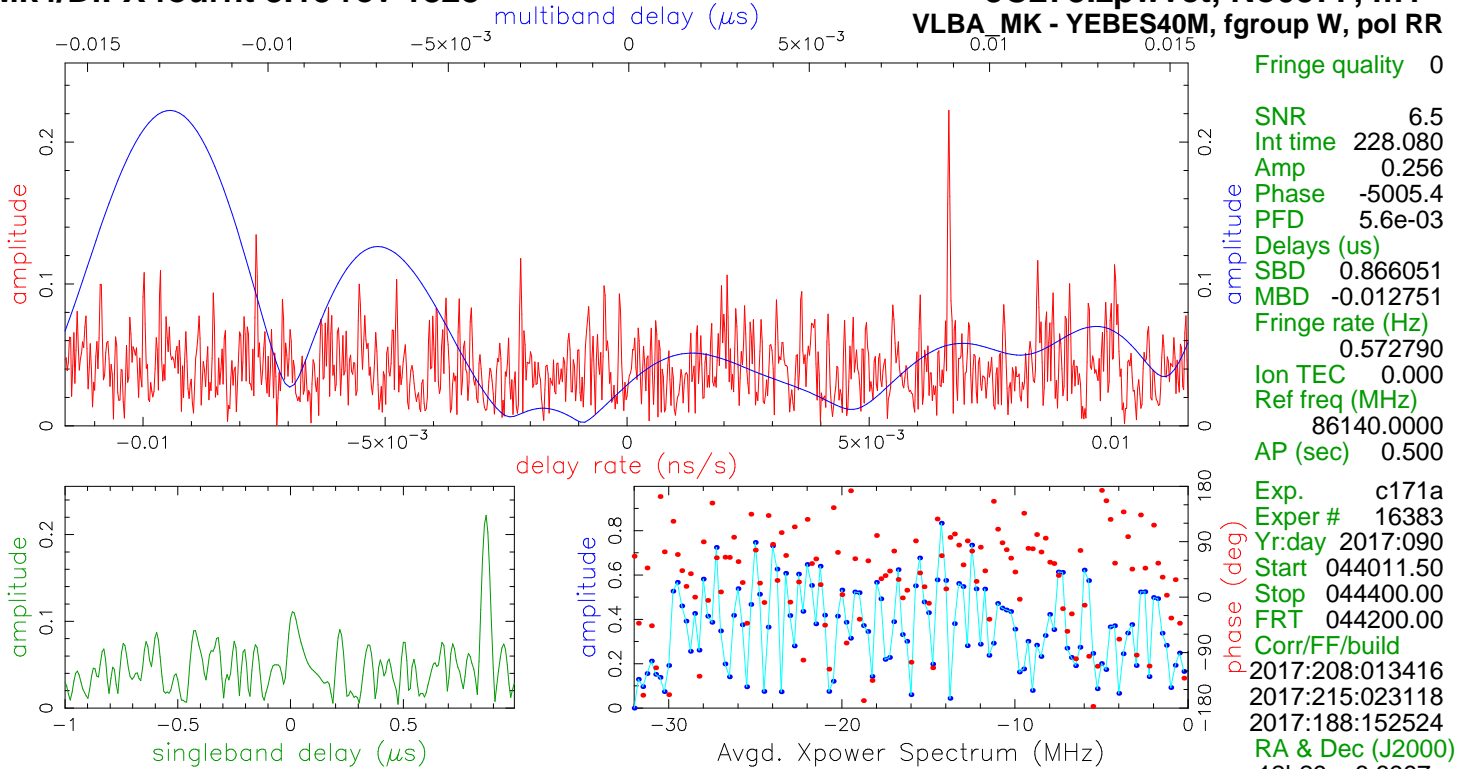
mb window (us) -0.016 0.016

dr window (ns/s) -0.012 0.012

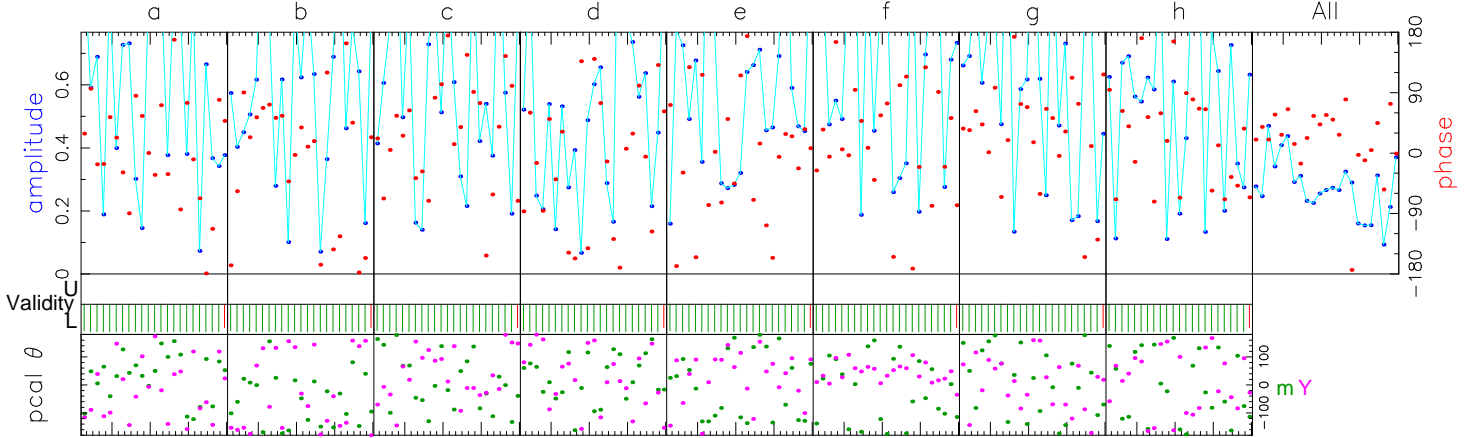
ion window (TEC) 0.00 0.00

m: az 90.1 el 6.1 pa -70.3 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -14604.710 -2688.609 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mY..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mY.W.341.zpwvct



Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

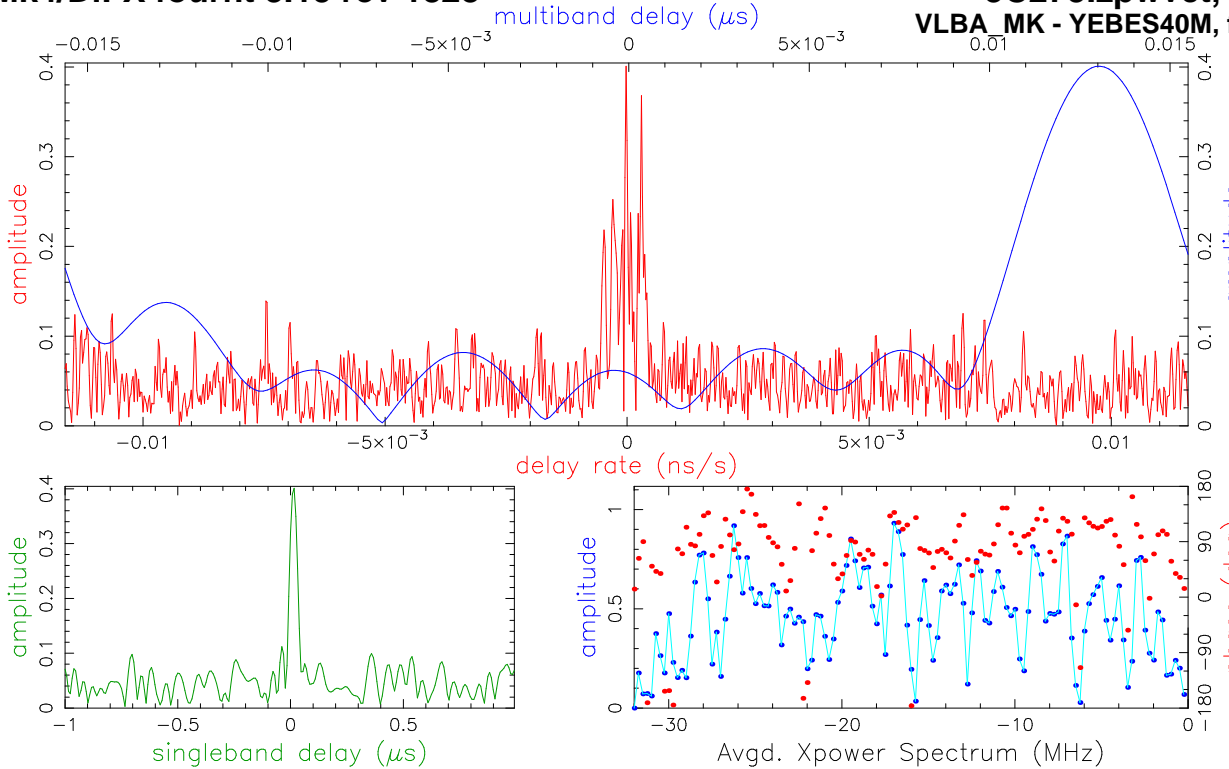


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
11.2	49.5	50.2	67.3	-16.0	43.0	36.8	34.0	34.0	Phase	34.6
0.3	0.2	0.3	0.1	0.2	0.3	0.5	0.3	0.3	Ampl.	0.2
35.7	30.4	74.4	77.2	17.4	158.2	241.4	238.0	238.0	Sbd box	239.9
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)		-3.91998512895E+03	Apriori delay (usec)		-3.92084737803E+03	Resid mbdelay (usec)		-1.27509E-02	+/- 3.3E-04	
Sband delay (usec)		-3.91998132703E+03	Apriori clock (usec)		-2.7472239E+00	Resid sbdelay (usec)		8.66051E-01	+/- 2.7E-03	
Phase delay (usec)		-3.92084737692E+03	Apriori clockrate (us/s)		-5.2474008E-07	Resid phdelay (usec)		1.11494E-06	+/- 5.7E-07	
Delay rate (us/s)		2.55100831522E+00	Apriori rate (us/s)		2.55100166569E+00	Resid rate (us/s)		6.64953E-06	+/- 4.3E-09	
Total phase (deg)		-5057.2		Apriori accel (us/s/s)		1.96198588976E-05	Resid phase (deg)		-5005.4	+/- 17.6

	RMS	Theor.	Amplitude	0.256 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	45.0	42.3	Search (1024X32)	0.214	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				
amp/seg (%)	47.2	73.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	28.1	24.9	Inc. seg. avg.	0.250	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	35.9	43.5	Inc. frq. avg.	0.250	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

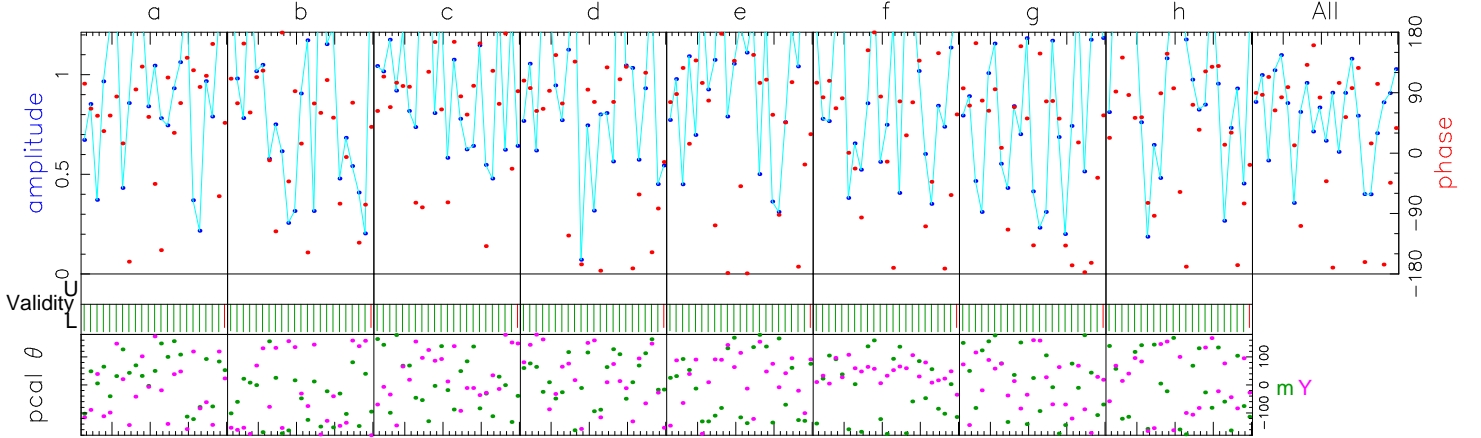
m: az 90.1 el 6.1 pa -70.3 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -14604.710 -2688.609 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mY.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mY.W.342.zpwvct



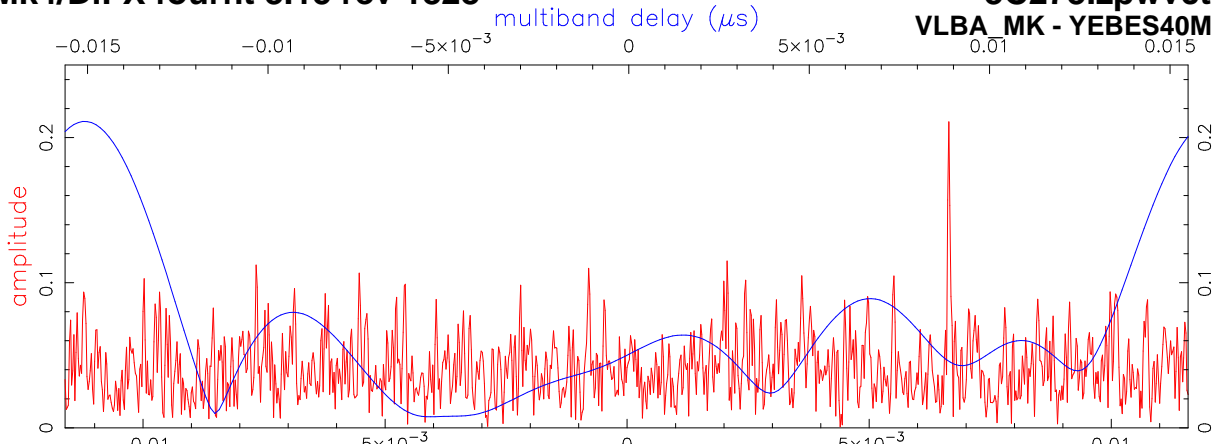
Fringe quality 9
 SNR 11.8
 Int time 228.080
 Amp 0.405
 Phase 96.6
 PFD 4.2e-24
 Delays (us)
 SBD 0.012988
 MBD 0.013014
 Fringe rate (Hz)
 -0.002750
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044011.50
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:023119
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"

Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	Ampl.	0.4
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	130.7
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
m:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
m:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.92083436374E+03		Apriori delay (usec)		-3.92084737803E+03		Resid mbdelay (usec)		1.30143E-02	+/- 1.8E-04
Sband delay (usec)	-3.92083439053E+03		Apriori clock (usec)		-2.7472239E+00		Resid sbdelay (usec)		1.29875E-02	+/- 1.5E-03
Phase delay (usec)	-3.92084737492E+03		Apriori clockrate (us/s)		-5.2474008E-07		Resid phdelay (usec)		3.11621E-06	+/- 3.1E-07
Delay rate (us/s)	2.55100163377E+00		Apriori rate (us/s)		2.55100166569E+00		Resid rate (us/s)		-3.19233E-08	+/- 2.4E-09
Total phase (deg)	44.8		Apriori accel (us/s/s)		1.96198588976E-05		Resid phase (deg)		96.6	+/- 9.7

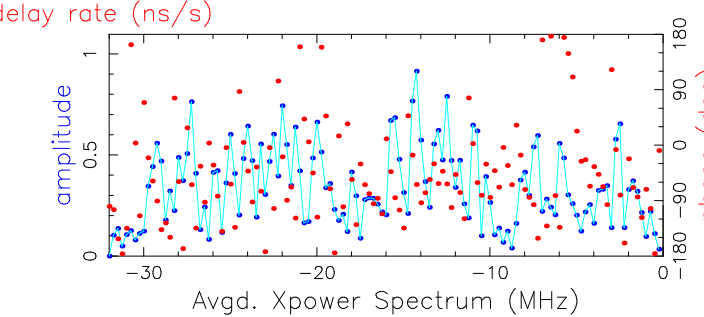
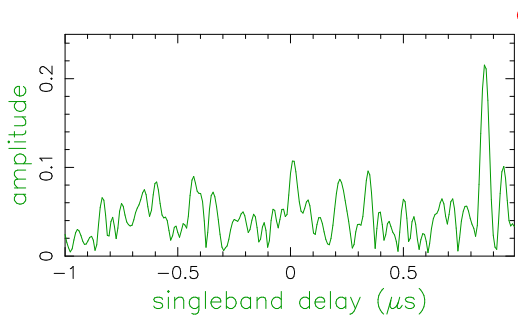
ph/seg (deg) 72.0 23.3 Theor. Amplitude 0.405 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 110.1 40.6 Search (1024X32) 0.377 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.2 13.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 15.6 23.9 Inc. seg. avg. 0.736 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 m: az 90.1 el 6.1 pa -70.3 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -14604.710 -2688.609 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mY..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mY.W.343.zpwvct



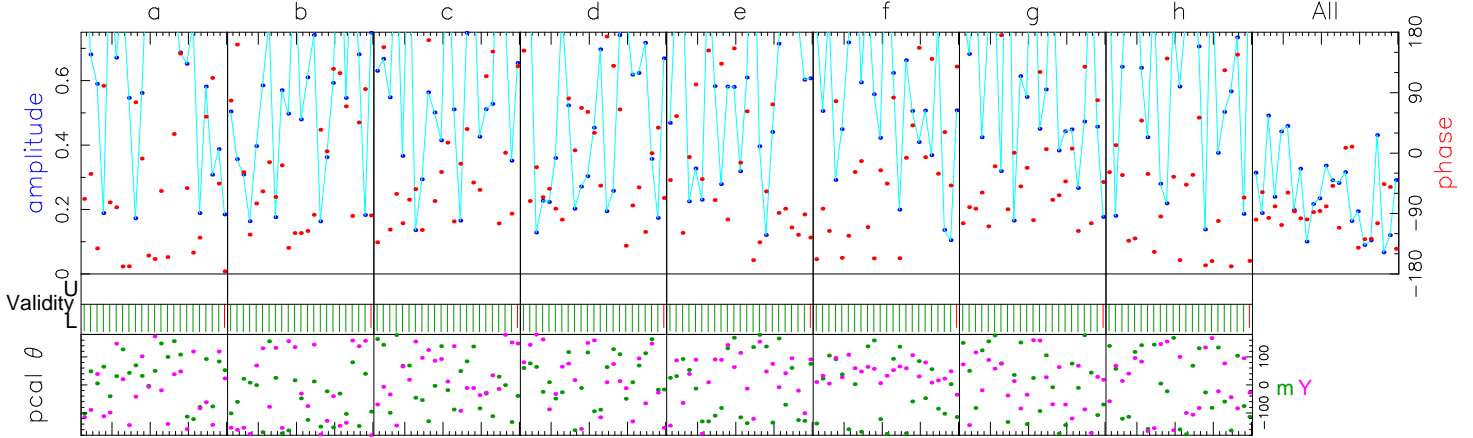
Fringe quality 0

SNR 6.4
Int time 228.080
Amp 0.250
Phase -5126.3
PFD 1.4e-02
Delays (us)
SBD 0.862211
MBD -0.015180
Fringe rate (Hz) 0.572951
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044011.50
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:023120
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"



Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-108.0	-80.3	-72.1	-64.8	-114.6	-66.4	-72.7	-107.5	Phase	-86.3
0.3	0.1	0.3	0.2	0.3	0.2	0.5	0.2	Ampl.	0.2
35.4	23.4	74.1	62.4	16.9	159.2	239.6	44.0	Sbd box	239.4
U/L 0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
m -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
m 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
m 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)	-3.91998755801E+03		Apriori delay (usec)	-3.92084737803E+03		Resid mbdelay (usec)	-1.51800E-02	+/-	3.4E-04
Sband delay (usec)	-3.91998516703E+03		Apriori clock (usec)	-2.7472239E+00		Resid sbdelay (usec)	8.62211E-01	+/-	2.7E-03
Phase delay (usec)	-3.92084738082E+03		Apriori clockrate (us/s)	-5.2474008E-07		Resid phdelay (usec)	-2.78199E-06	+/-	5.8E-07
Delay rate (us/s)	2.55100831709E+00		Apriori rate (us/s)	2.55100166569E+00		Resid rate (us/s)	6.65139E-06	+/-	4.4E-09
Total phase (deg)		-5178.1	Apriori accel (us/s/s)	1.96198588976E-05		Resid phase (deg)	-5126.3	+/-	18.0

ph/seg (deg) 39.2 43.2 Theor. Amplitude 0.250 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.3 75.5 Search (1024X32) 0.204 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.4 25.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 36.3 44.5 Inc. seg. avg. 0.229 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 m: az 90.1 el 6.1 pa -70.3 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -14604.710 -2688.609 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/mY..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/mY.W.344.zpwvct