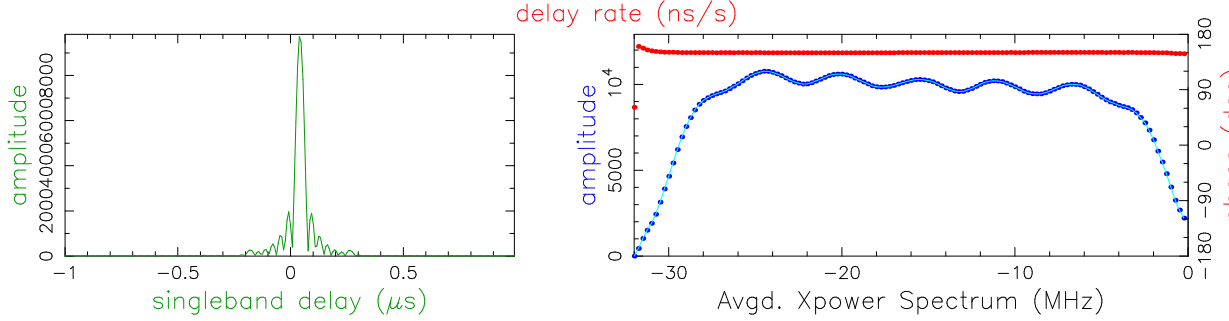
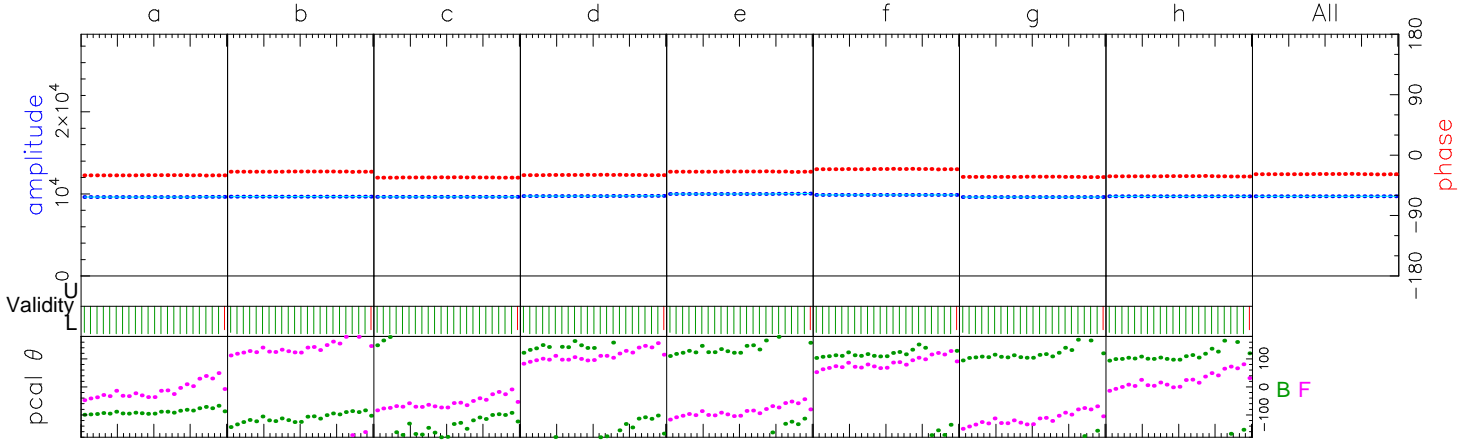


Fringe quality 9  
 SNR 293942.8  
 Int time 239.429  
 Amp 9824.081  
 Phase -208.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.041922  
 MBD 0.010876  
 Fringe rate (Hz)  
 -0.000005  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044000.00  
 Stop 044400.00  
 FRT 044200.00  
 Corr/FF/build  
 2017:208:013416  
 2017:215:022552  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2°03' 8.598"

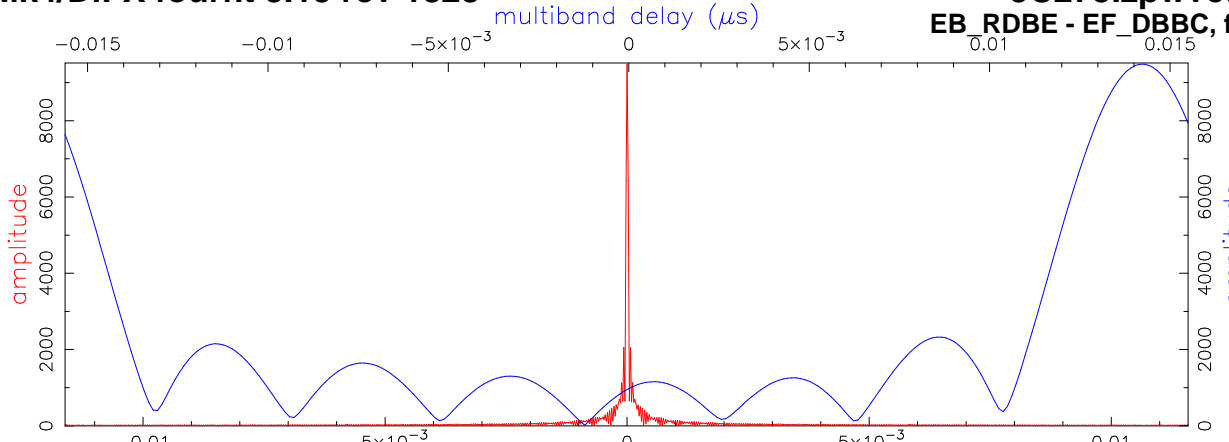


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

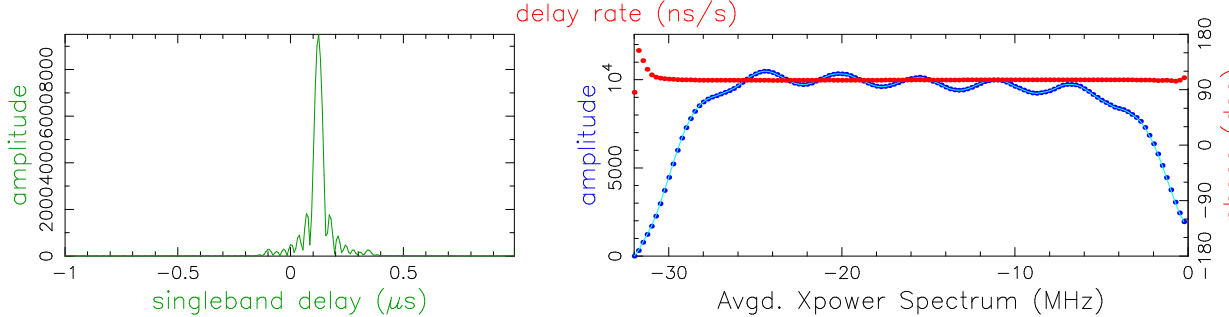


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-30.1	-24.6	-33.3	-29.6	-24.6	-20.8	-32.4	-31.5	Phase	-28.3
	9634.7	9674.5	9651.4	9754.0	10009.1	9884.7	9617.9	9717.8	Ampl.	9743.0
	134.4	134.3	134.4	134.4	134.5	134.3	134.4	134.2	Sbd box	134.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.82126312500E-01		Apriori delay (usec)		4.40000000000E-01		Resid mbdelay (usec)		1.08763E-02	+/- 7.4E-09
Sband delay (usec)	4.81922500000E-01		Apriori clock (usec)		4.4000244E-01		Resid sbdelay (usec)		4.19225E-02	+/- 5.9E-08
Phase delay (usec)	4.39999086062E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-9.13938E-07	+/- 1.3E-11
Delay rate (us/s)	-6.09472951010E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-6.09473E-11	+/- 9.1E-14
Total phase (deg)	7.7		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-208.3	+/- 0.0

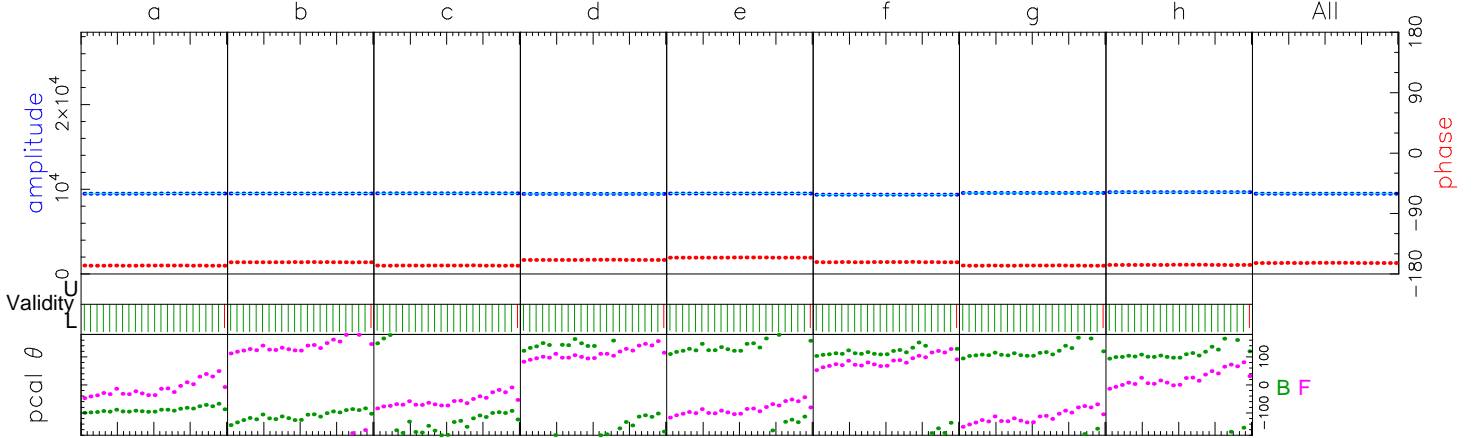
RMS Theor. Amplitude 9824.081 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.2 0.0 Search (1024X32) 9700.196 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 1.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 4.8 0.0 Inc. seg. avg. 9716.990 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 (%) 1.5 0.0 Inc. frq. avg. 9743.022 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 9  
 SNR 284654.8  
 Int time 239.429  
 Amp 9513.658  
 Phase -703.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.123466  
 MBD 0.014233  
 Fringe rate (Hz)  
 -0.000003  
 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  
 2017:215:022553  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2°03' 8.598"



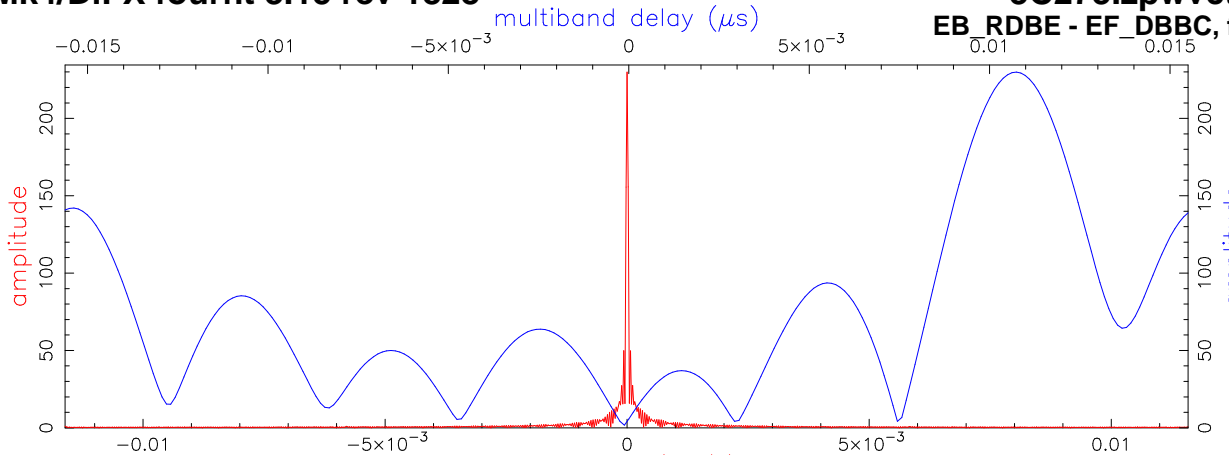
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



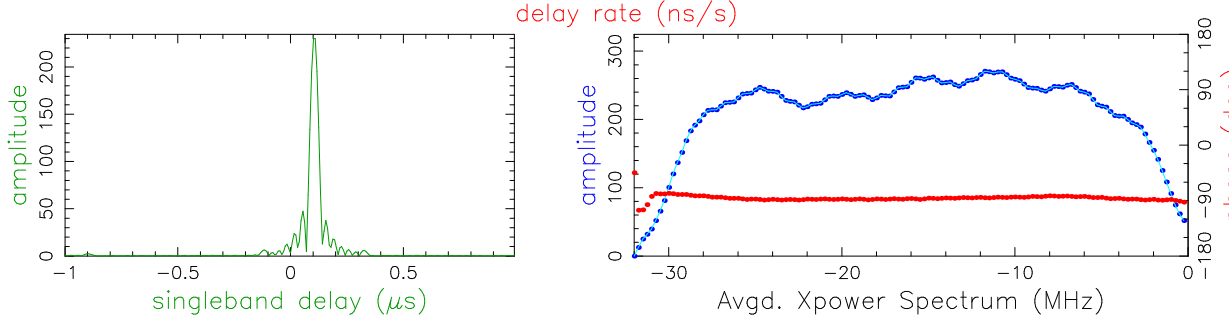
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-167.4	-162.4	-167.3	-158.9	-155.5	-162.3	-167.4	-166.4	Phase	-163.5
	9490.4	9505.5	9522.9	9464.5	9503.3	9369.7	9566.8	9654.5	Ampl.	9509.7
	144.8	144.8	144.9	144.9	144.9	144.6	144.9	144.7	Sbd box	144.8
U/L	0/480	0/480	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	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.47982562500E-01		Apriori delay (usec)		4.40000000000E-01		Resid mbdelay (usec)		1.42326E-02	+/- 7.6E-09
Sband delay (usec)	5.63466500000E-01		Apriori clock (usec)		4.4000244E-01		Resid sbdelay (usec)		1.23466E-01	+/- 6.1E-08
Phase delay (usec)	4.39994728083E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.27192E-06	+/- 1.3E-11
Delay rate (us/s)	-3.48270257720E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.48270E-11	+/- 9.4E-14
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-703.5	+/- 0.0

RMS Theor. Amplitude 9513.657 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.1 0.0 Search (1024X32) 9310.301 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 4.9 0.0 Inc. seg. avg. 9484.163 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 (%) 0.8 0.0 Inc. frq. avg. 9509.695 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

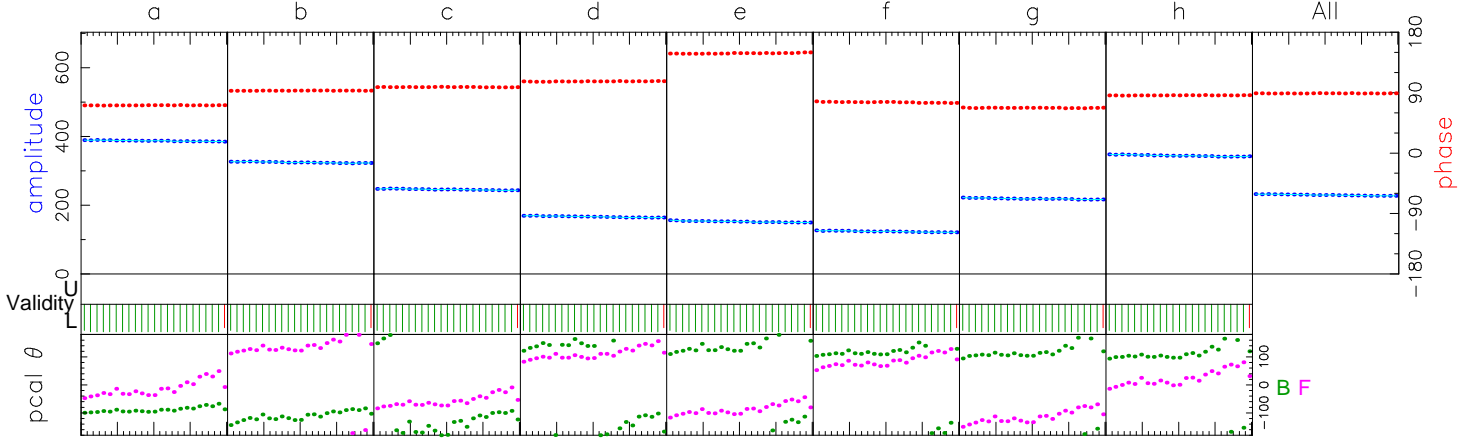
B: az 262.0 el 9.0 pa 39.1 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/BF.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BF.W.42.zpwwct



Fringe quality 6  
 SNR 7017.0  
 Int time 239.429  
 Amp 234.521  
 Phase -451.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.105471  
 MBD 0.010718  
 Fringe rate (Hz)  
 -0.000014  
 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  
 2017:215:022554  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2° 03' 8.598"

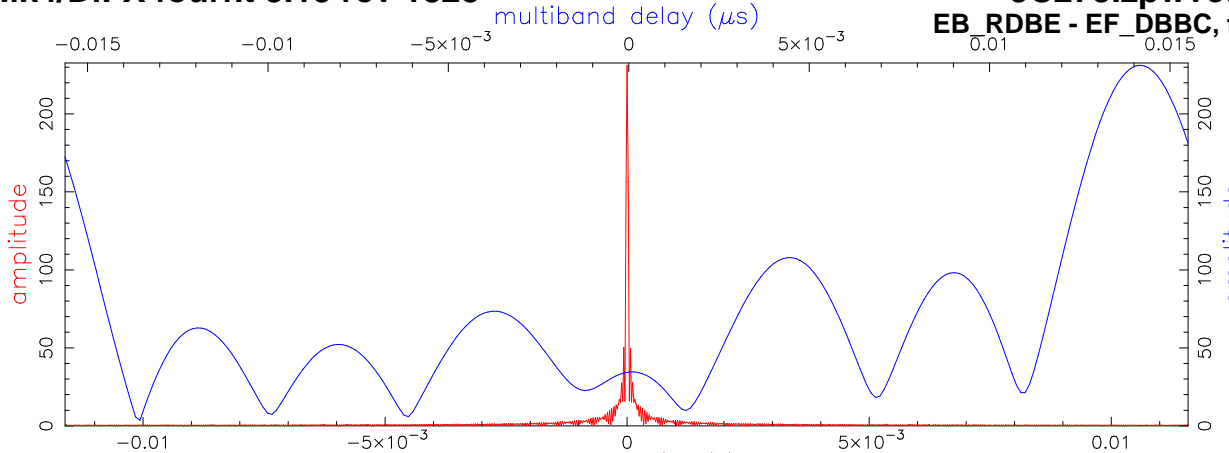


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.44467687500E-01		Apriori delay (usec)		4.40000000000E-01		Resid mbdelay (usec)		1.07177E-02	+/- 3.1E-07
Sband delay (usec)	5.45471000000E-01		Apriori clock (usec)		4.4000244E-01		Resid sbdelay (usec)		1.05471E-01	+/- 2.5E-06
Phase delay (usec)	4.40002866281E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.86628E-06	+/- 5.3E-10
Delay rate (us/s)	-1.62526120269E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.62526E-10	+/- 3.8E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-451.1	+/- 0.0

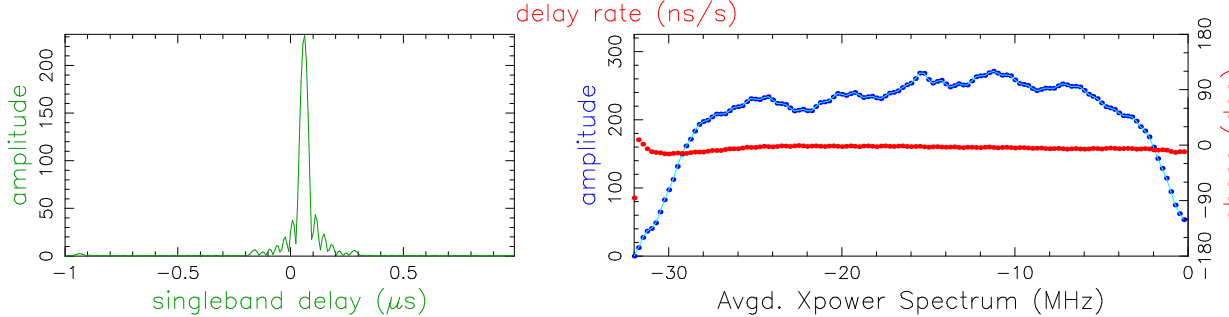
ph/seg (deg) 0.1 0.0 Search (1024X32) 229.889 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 2.1 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 28.7 0.0 Inc. seg. avg. 229.894 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 39.2 0.0 Inc. frq. avg. 245.536 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 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/BF.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BF.W.43.zpwwct



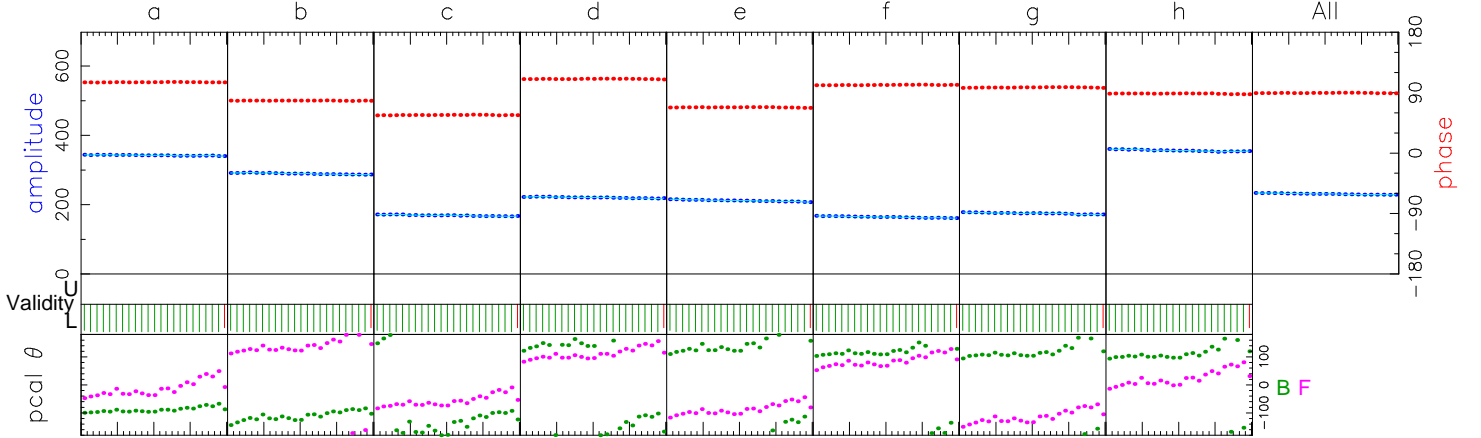
Fringe quality 7

SNR 6961.5  
 Int time 239.429  
 Amp 232.665  
 Phase -90.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.060296  
 MBD 0.014185  
 Fringe rate (Hz) 0.000007  
 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  
 2017:215:022555  
 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

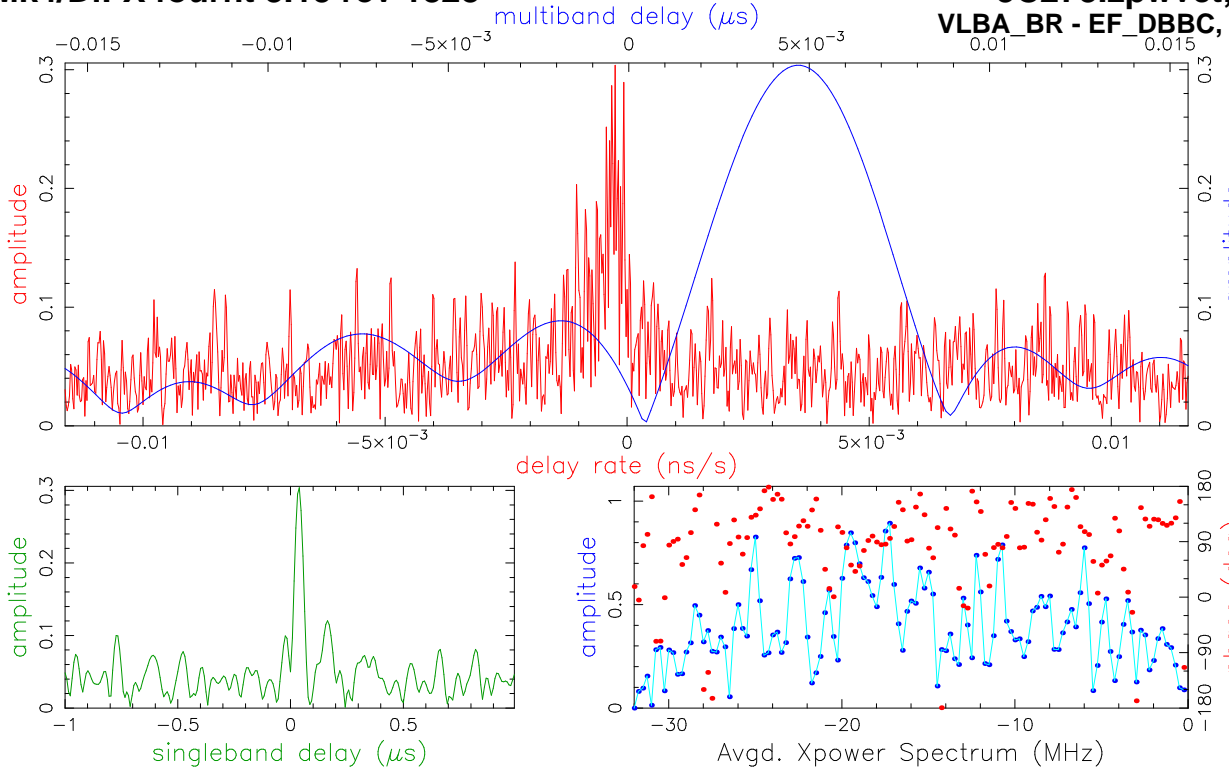


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
105.4	78.1	56.7	110.3	68.0	101.4	97.7	88.5	Phase	89.4
342.5	289.7	169.2	220.7	211.8	164.5	175.1	356.4	Ampl.	241.3
136.8	136.1	137.6	136.8	136.8	137.2	135.9	136.9	Sbd box	136.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:F 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	
F 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd) 4.85434812500E-01 Apriori delay (usec) 4.40000000000E-01 Resid mbdelay (usec) 1.41848E-02 +/- 3.1E-07  
 Sband delay (usec) 5.00296000000E-01 Apriori clock (usec) 4.4000244E-01 Resid sbdelay (usec) 6.02960E-02 +/- 2.5E-06  
 Phase delay (usec) 4.40002884408E-01 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.88441E-06 +/- 5.3E-10  
 Delay rate (us/s) 8.27141862085E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 8.27142E-11 +/- 3.8E-12  
 Total phase (deg) 125.4 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -90.6 +/- 0.0

RMS Theor. Amplitude 232.665 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.2 0.0 Search (1024X32) 224.363 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 1.0 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 20.7 0.0 Inc. seg. avg. 231.206 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 (%) 31.6 0.0 Inc. frq. avg. 241.254 ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/BF..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/BF.W.44.zpwvct

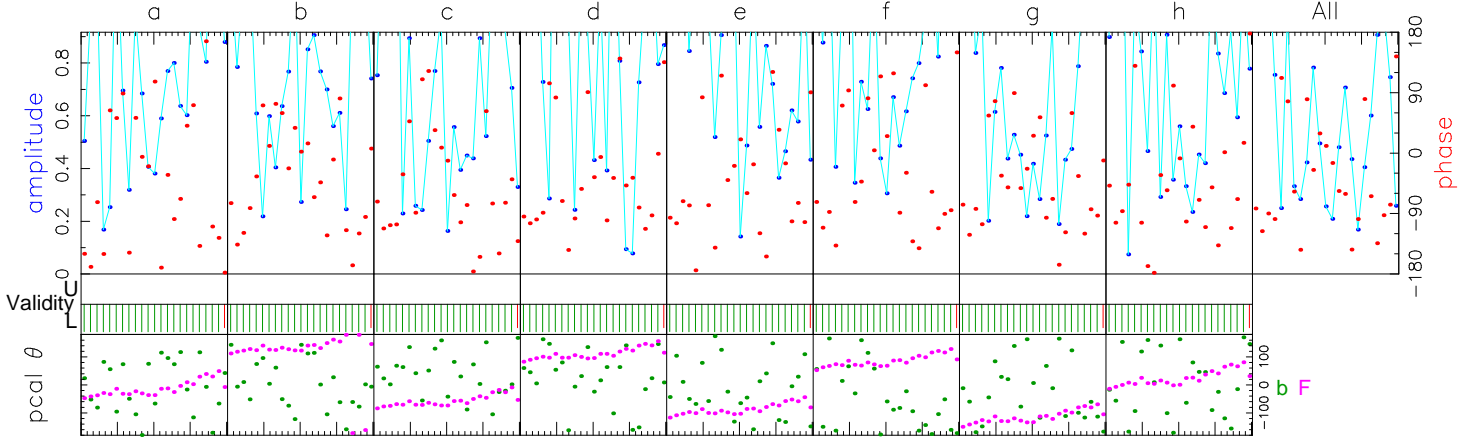


Fringe quality 9

SNR 9.2  
Int time 239.895  
Amp 0.306  
Phase -260.8  
PFD 5.3e-12  
Delays (us)  
SBD 0.036798  
MBD 0.004695  
Fringe rate (Hz)  
-0.021270  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

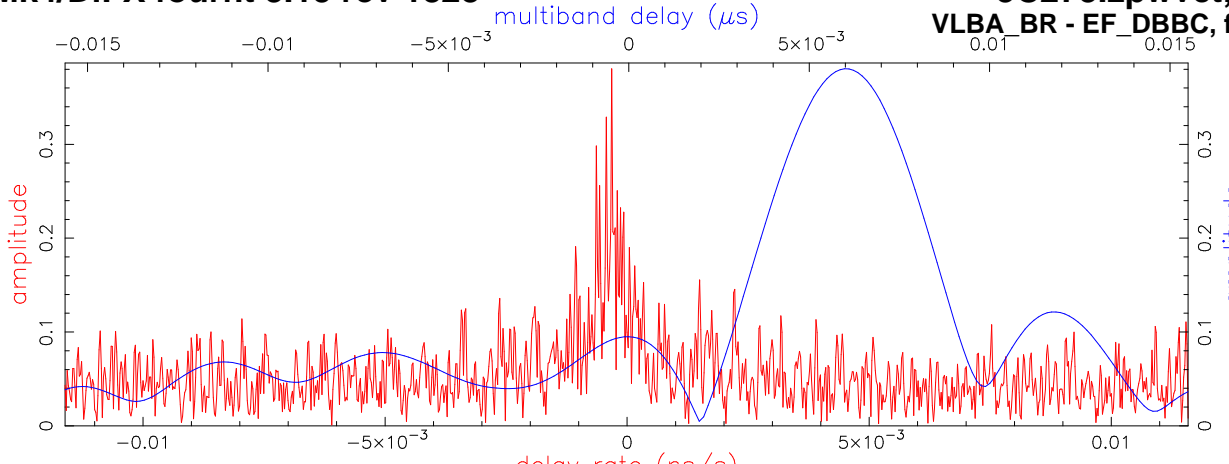
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022514  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"

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

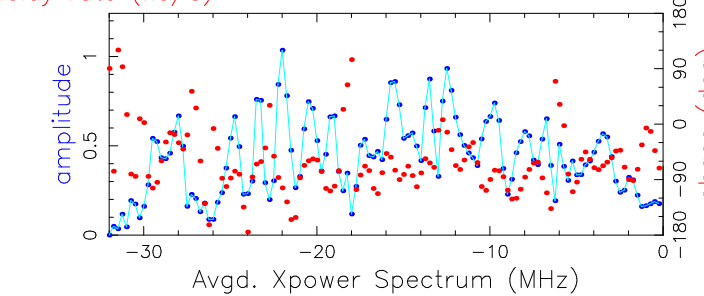
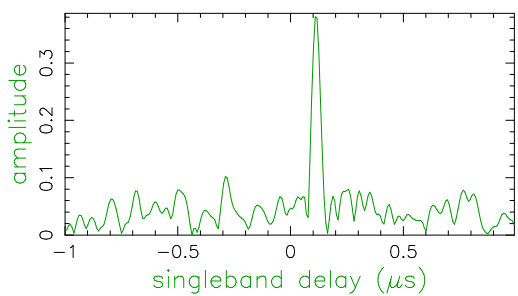


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-124.0	-59.1	-91.0	-77.3	-81.1	-81.1	-73.0	-88.6	Phase	-80.8
	0.1	0.3	0.4	0.4	0.4	0.2	0.4	0.4	Ampl.	0.3
	126.3	135.1	134.3	132.5	134.6	204.1	133.2	134.5	Sbd box	133.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.80495611885E+03		Apriori delay (usec)		6.80492017340E+03		Resid mbdelay (usec)		4.69545E-03	+/- 2.4E-04
Sband delay (usec)	6.80495697140E+03		Apriori clock (usec)		-3.2764366E+01		Resid sbdelay (usec)		3.67980E-02	+/- 1.9E-03
Phase delay (usec)	6.80492017080E+03		Apriori clockrate (us/s)		3.7026890E-08		Resid phdelay (usec)		-2.60639E-06	+/- 4.0E-07
Delay rate (us/s)	1.73808188221E+00		Apriori rate (us/s)		1.73808212913E+00		Resid rate (us/s)		-2.46922E-07	+/- 2.9E-09
Total phase (deg)	4.5		Apriori accel (us/s/s)		-3.64571948783E-05		Resid phase (deg)		-260.8	+/- 12.5

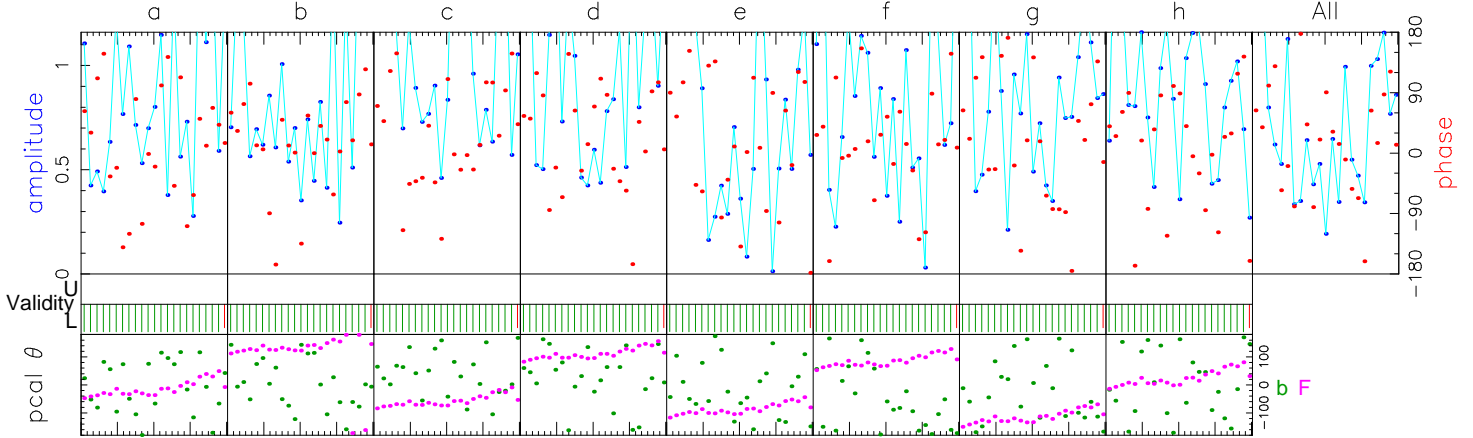
ph/seg (deg) 84.5 30.0 Theor. Amplitude 0.306 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 146.4 52.4 Search (1024X32) 0.299 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 20.7 17.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 32.1 30.9 Inc. seg. avg. 0.536 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 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/bF.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bF.W.5.zpwvct



Fringe quality 9  
 SNR 11.6  
 Int time 239.895  
 Amp 0.387  
 Phase -505.5  
 PFD 6.5e-23  
 Delays (us)  
 SBD 0.112951  
 MBD 0.006071  
 Fringe rate (Hz)  
 -0.026587  
 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  
 2017:215:022515  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2° 03' 8.598"



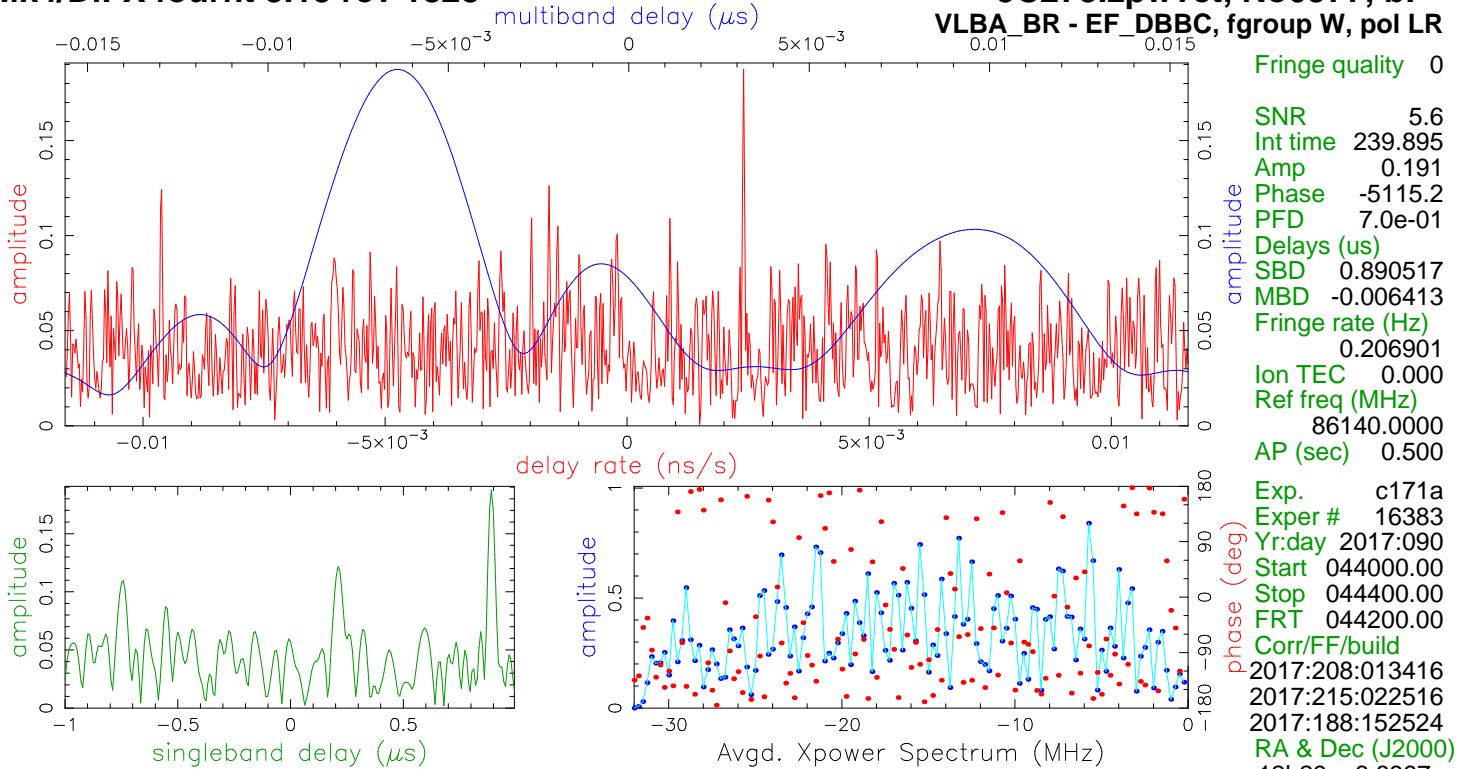
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



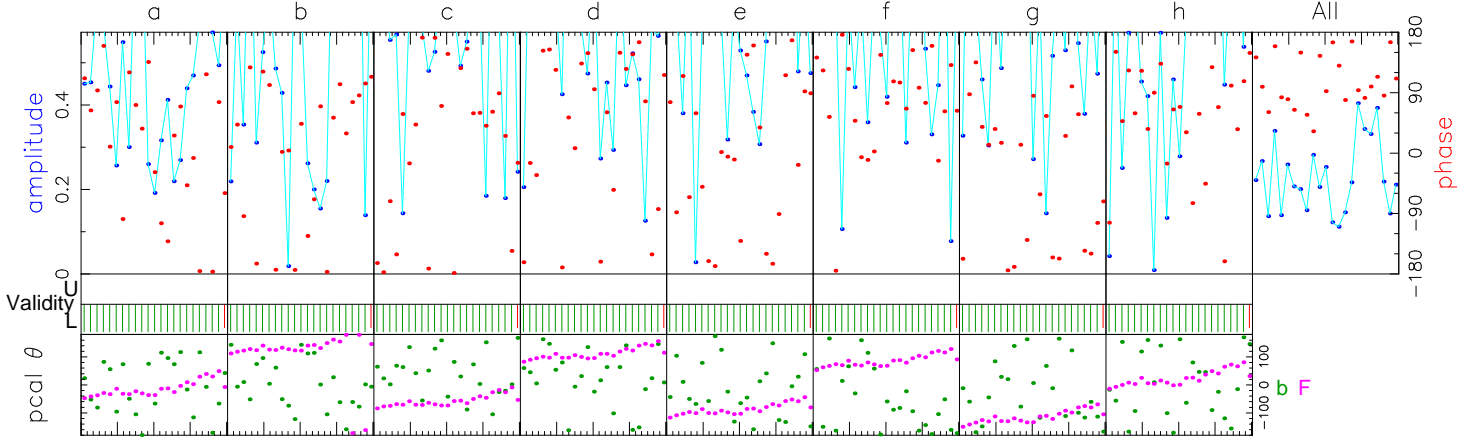
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	24.5	42.3	32.3	37.0	68.1	24.4	20.7	36.5	Phase	34.5
	0.3	0.5	0.5	0.4	0.3	0.5	0.3	0.4	Ampl.	0.4
	143.9	143.5	143.5	143.1	144.1	143.7	142.8	144.4	Sbd box	143.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.80501999420E+03		Apriori delay (usec)		6.80492017340E+03		Resid mbdelay (usec)		6.07080E-03 +/- 1.9E-04	
Sband delay (usec)	6.80503312440E+03		Apriori clock (usec)		-3.2764366E+01		Resid sbdelay (usec)		1.12951E-01 +/- 1.5E-03	
Phase delay (usec)	6.80492017452E+03		Apriori clockrate (us/s)		3.7026890E-08		Resid phdelay (usec)		1.11313E-06 +/- 3.2E-07	
Delay rate (us/s)	1.73808182048E+00		Apriori rate (us/s)		1.73808212913E+00		Resid rate (us/s)		-3.08653E-07 +/- 2.3E-09	
Total phase (deg)			Apriori accel (us/s/s)		-3.64571948783E-05		Resid phase (deg)		-505.5 +/- 9.9	

ph/seg (deg) 76.7 23.7 Theor. Amplitude 0.387 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 121.3 41.4 Search (1024X32) 0.352 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 16.3 14.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 23.4 24.4 Inc. seg. avg. 0.657 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. 0.378 ion window (TEC) 0.00 0.00  
 b: az 122.2 el 27.9 pa -34.4 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/bF..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bF.W.6.zpwvct





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

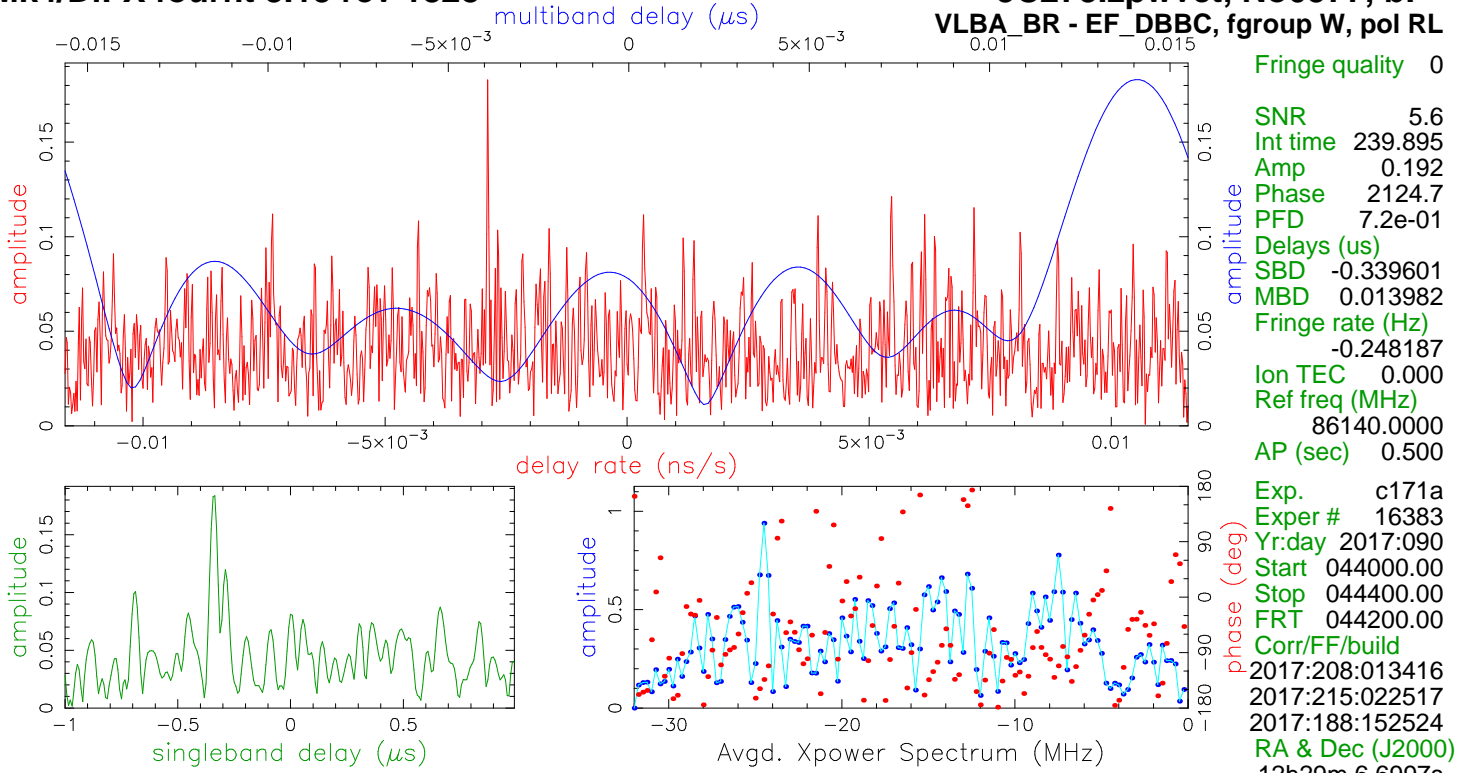


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
83.5	88.2	122.5	125.4	-171.2	92.3	141.5	89.8	89.8	Phase	104.8
0.1	0.3	0.2	0.2	0.1	0.4	0.1	0.3	0.3	Ampl.	0.2
129.7	27.7	31.8	253.5	34.5	242.4	101.2	242.6	242.6	Sbd box	243.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.80582001090E+03		Apriori delay (usec)	6.80492017340E+03	Resid mbdelay (usec)	-6.41250E-03	+/-	3.9E-04		
Sband delay (usec)	6.80581069090E+03		Apriori clock (usec)	-3.2764366E+01	Resid sbdelay (usec)	8.90517E-01	+/-	3.1E-03		
Phase delay (usec)	6.80492017678E+03		Apriori clockrate (us/s)	3.7026890E-08	Resid phdelay (usec)	3.37866E-06	+/-	6.6E-07		
Delay rate (us/s)	1.73808453104E+00		Apriori rate (us/s)	1.73808212913E+00	Resid rate (us/s)	2.40191E-06	+/-	4.8E-09		
Total phase (deg)		-5209.9	Apriori accel (us/s/s)	-3.64571948783E-05	Resid phase (deg)	-5115.2	+/-	20.4		

ph/seg (deg)	38.4	Theor. 48.9	Amplitude	0.191 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	50.7	85.4	Search (1024X32)	0.183	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	41.4	28.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	54.1	50.4	Inc. seg. avg.	0.172	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.189	nlags:	128	t_cohere	infinite			

b: az 122.2 el 27.9 pa -34.4 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/bF.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bF.W.7.zpwvct



Fringe quality 0

SNR 5.6

Int time 239.895

Amp 0.192

Phase 2124.7

PFD 7.2e-01

Delays (us)

SBD -0.339601

MBD 0.013982

Fringe rate (Hz)

-0.248187

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

2017:215:022517

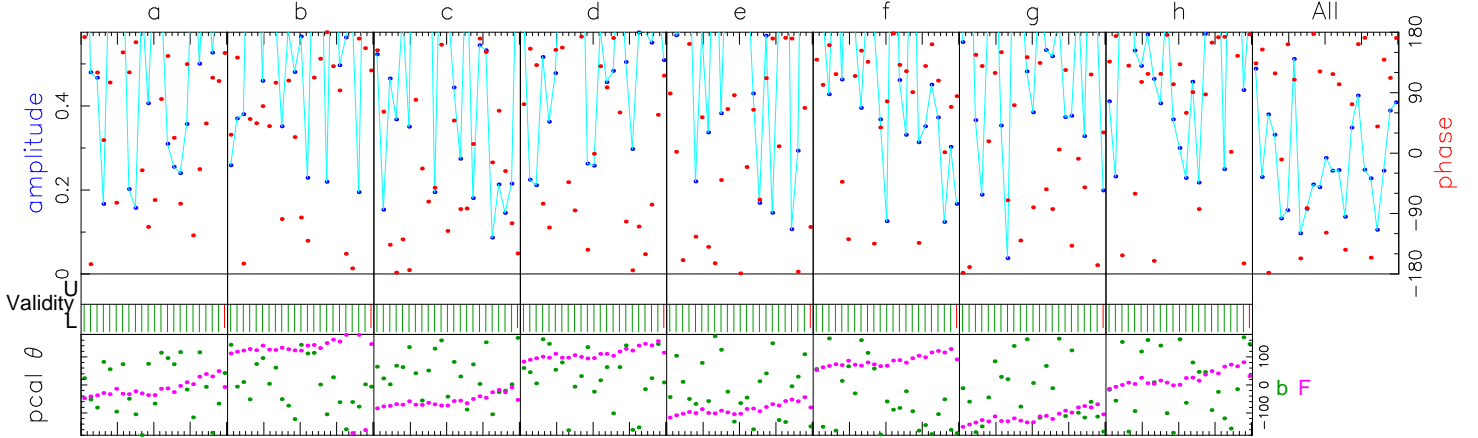
2017:188:152524

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
147.2	111.4	-141.3	-169.9	128.6	139.1	148.0	147.7	Phase	144.7
0.1	0.3	0.1	0.1	0.2	0.3	0.1	0.3	Ampl.	0.2
222.9	86.7	236.9	44.7	173.7	84.6	131.1	187.4	Sbd box	85.5
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	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:F 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:F 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	
F 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	6.80459040570E+03	Apriori delay (usec)	6.80492017340E+03	Resid mbdelay (usec)	1.39823E-02	+/-	3.9E-04		
Sband delay (usec)	6.80458057290E+03	Apriori clock (usec)	-3.2764366E+01	Resid sbdelay (usec)	-3.39601E-01	+/-	3.1E-03		
Phase delay (usec)	6.80492017807E+03	Apriori clockrate (us/s)	3.7026890E-08	Resid phdelay (usec)	4.66519E-06	+/-	6.6E-07		
Delay rate (us/s)	1.73807924792E+00	Apriori rate (us/s)	1.73808212913E+00	Resid rate (us/s)	-2.88121E-06	+/-	4.8E-09		
Total phase (deg)	2030.0	Apriori accel (us/s/s)	-3.64571948783E-05	Resid phase (deg)	2124.7	+/-	20.5		

ph/seg (deg) 62.8 Theor. 49.1 Amplitude 0.192 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 76.6 85.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

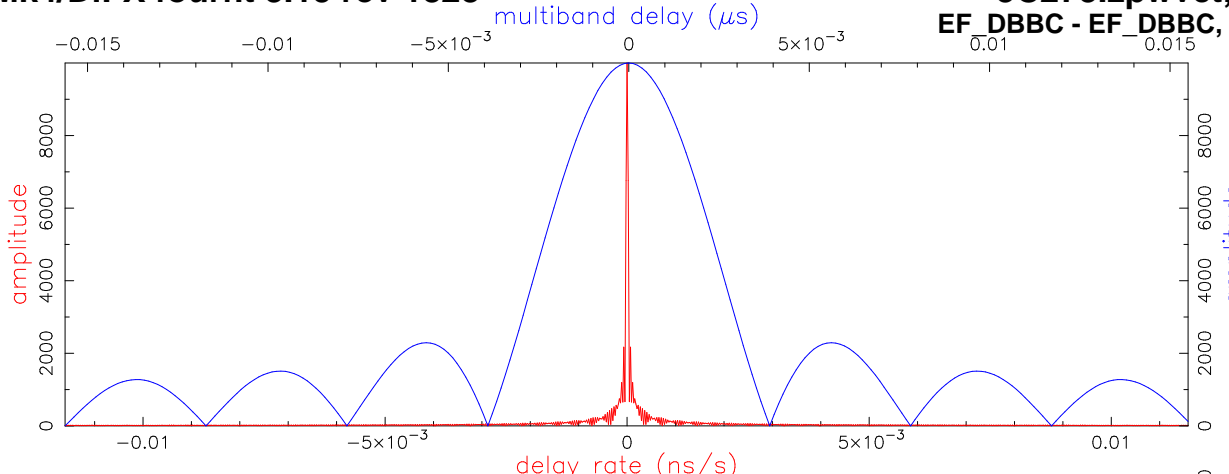
ph/frq (deg) 38.6 28.9 Inc. seg. avg. 0.202 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 46.8 50.5 Inc. frq. avg. 0.188 Data rate (Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

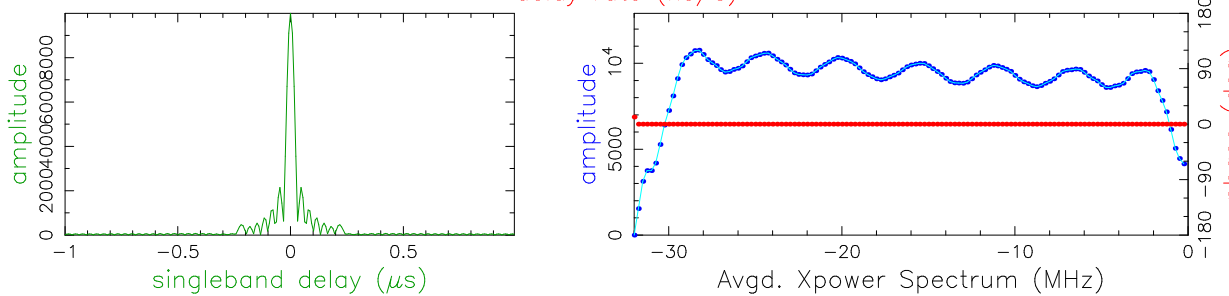
b: az 122.2 el 27.9 pa -34.4 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/bF..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/bF.W.8.zpwwct

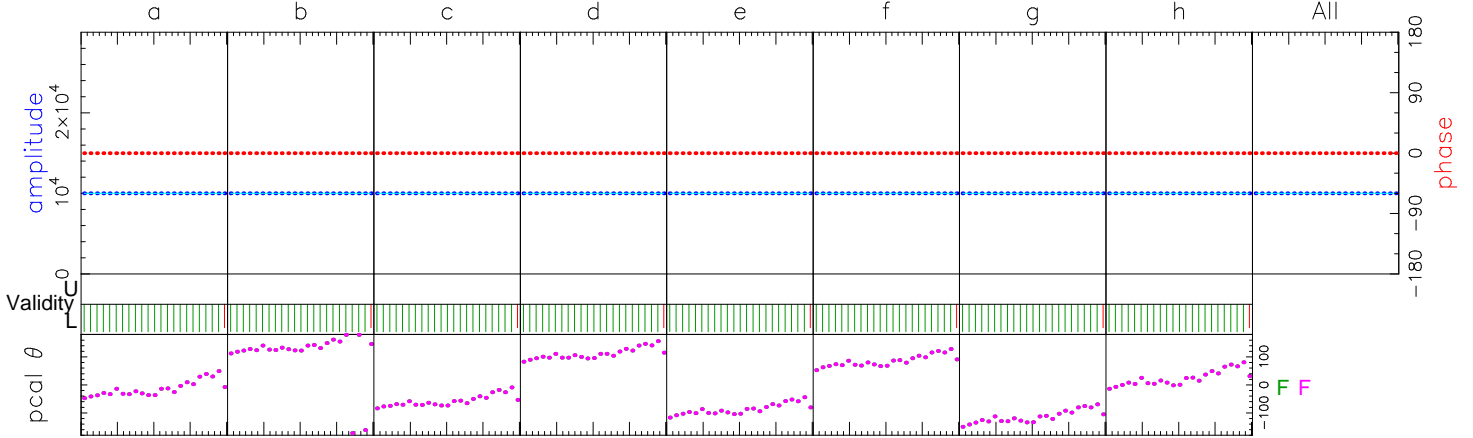




Fringe quality 9  
SNR 299497.3  
Int time 239.895  
Amp 9999.999  
Phase 0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022917  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2°03' 8.598"

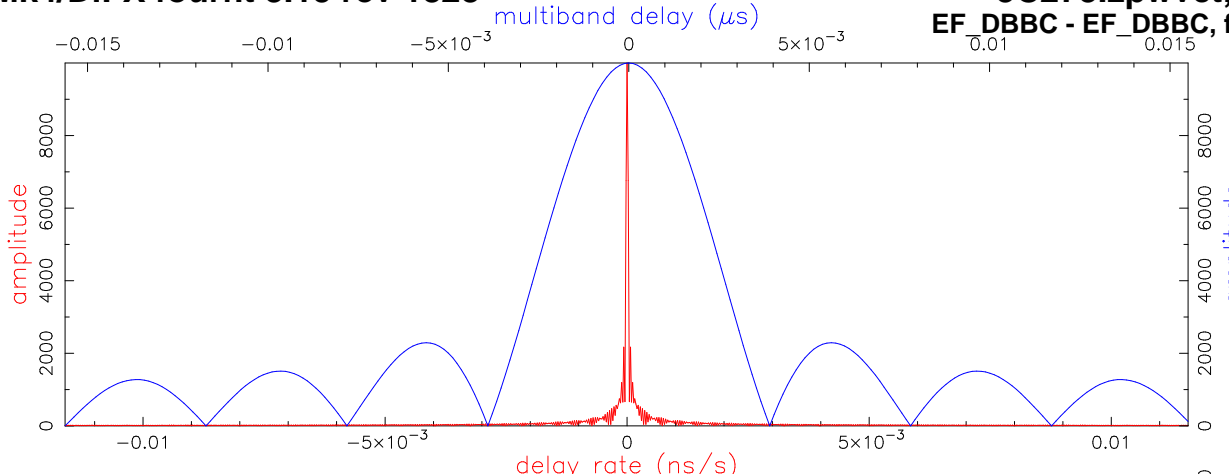


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

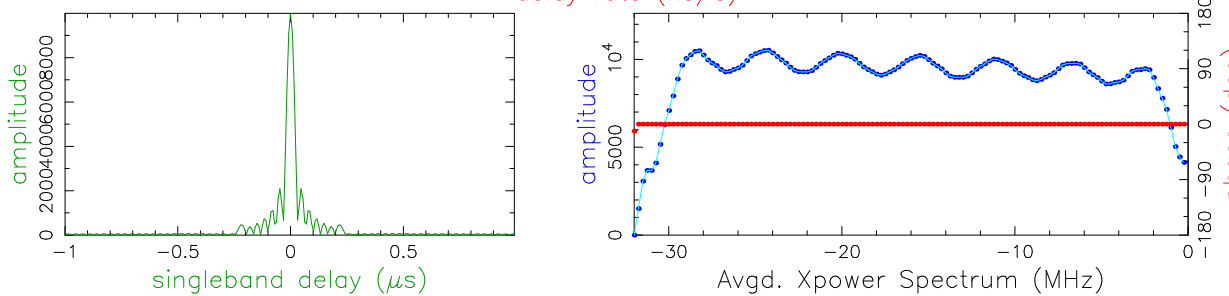


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:F 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:F 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	
F 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	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)	0.000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+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		

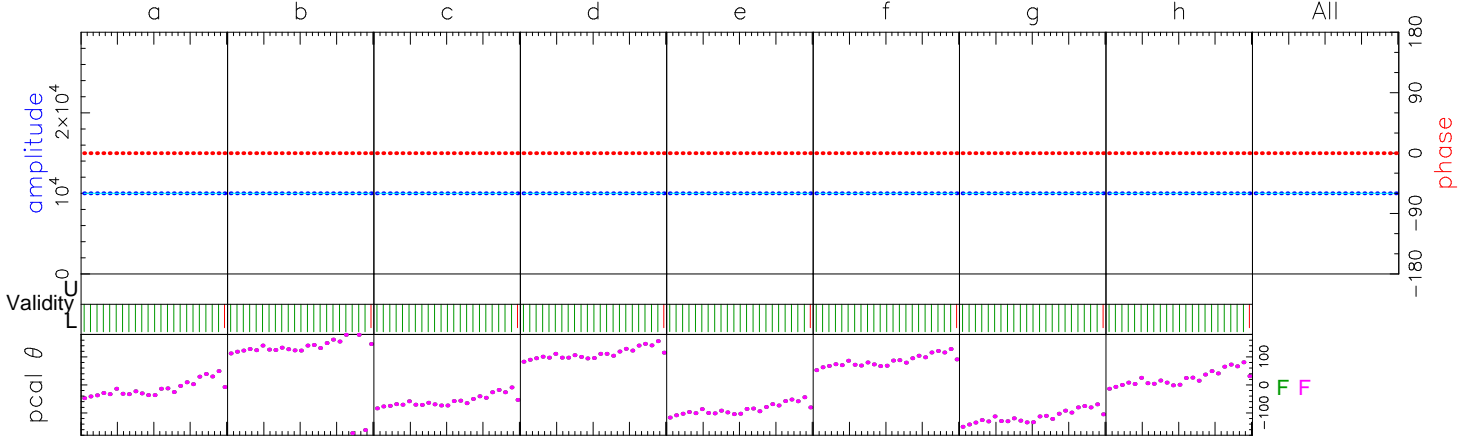
ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb 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  
 F: az 262.0 el 9.0 pa 39.1 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FF..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/FF.W.229.zpwvct simultaneous interpolator



Fringe quality 9  
SNR 299497.3  
Int time 239.895  
Amp 9999.999  
Phase 0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022918  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2°03' 8.598"

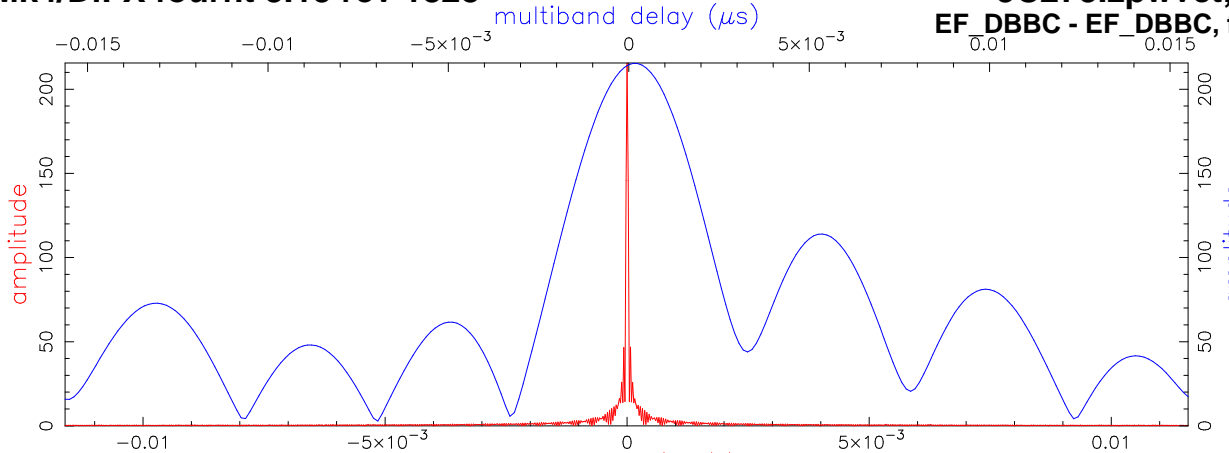


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

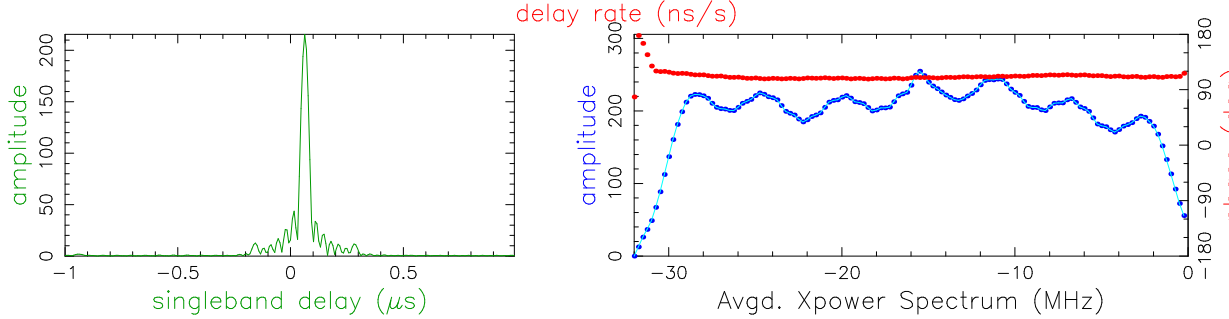


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
Validity	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
F:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
F:F	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			
F	1000	1000	1000	1000	1000	1000	1000	1000			
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 7.2E-09	
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 5.8E-08	
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.2E-11	
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 8.9E-14	
Total phase (deg)			0.0							0.0	+/- 0.0

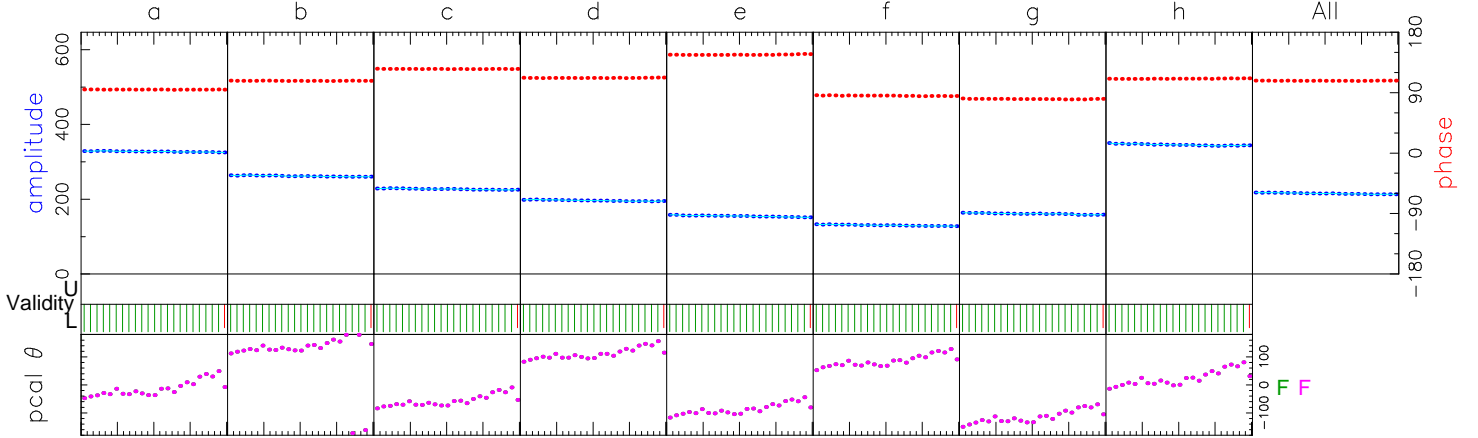
RMS Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 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 F F ion window (TEC) 0.00 0.00  
 F: az 262.0 el 9.0 pa 39.1 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FF..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/FF.W.230.zpwvct



Fringe quality 6  
SNR 6457.3  
Int time 239.895  
Amp 215.604  
Phase -252.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.063261  
MBD 0.000169  
Fringe rate (Hz)  
-0.000007  
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  
2017:215:022919  
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

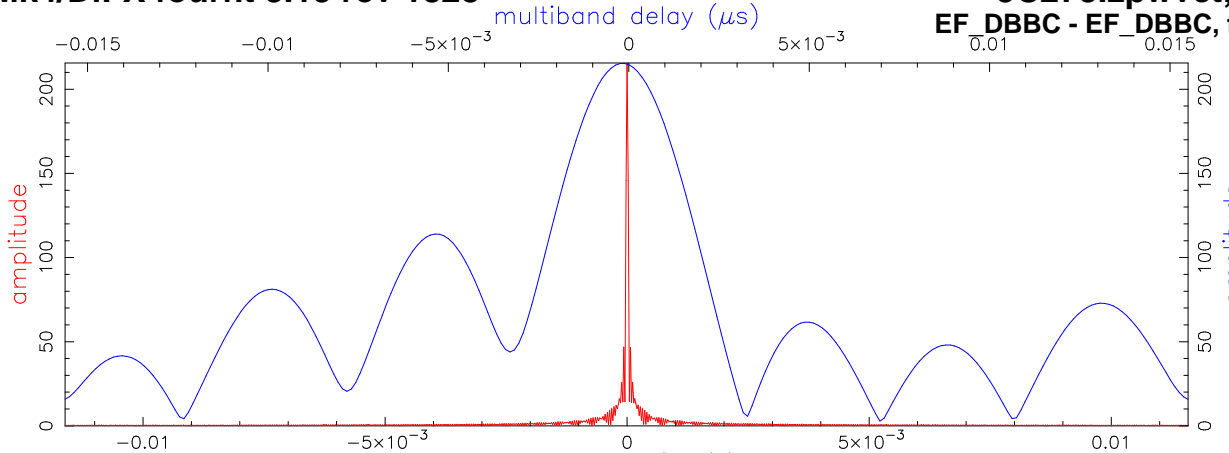


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	94.5	107.6	125.2	111.9	146.5	85.4	80.5	110.8	Phase	107.7
	327.5	262.0	227.1	196.7	154.9	130.4	161.1	345.7	Ampl.	225.7
	137.1	137.7	136.8	137.1	137.1	136.4	137.9	137.1	Sbd box	137.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:F	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	
F	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

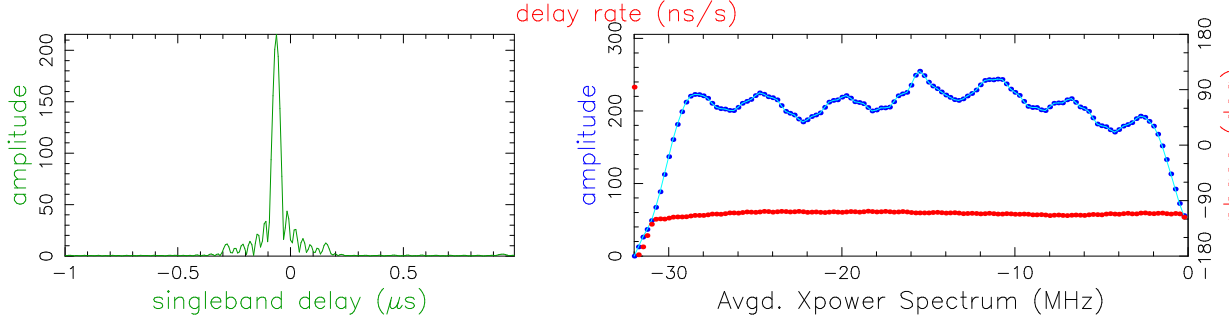
Group delay (usec)(sbd)	6.26691250000E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.69125E-04	+/-	3.4E-07
Sband delay (usec)	6.32610000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	6.32610E-02	+/-	2.7E-06
Phase delay (usec)	3.47298900622E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.47299E-06	+/-	5.7E-10
Delay rate (us/s)	-7.98119340608E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-7.98119E-11	+/-	4.1E-12
Total phase (deg)	-252.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-252.3	+/-	0.0

ph/seg (deg)	0.1	RMS	0.1	Theor.	0.0	Amplitude	215.604 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.7		0.1			Search (1024X32)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	23.3		0.0			Interp.	215.432	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	35.2		0.0			Inc. seg. avg.	225.660	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016

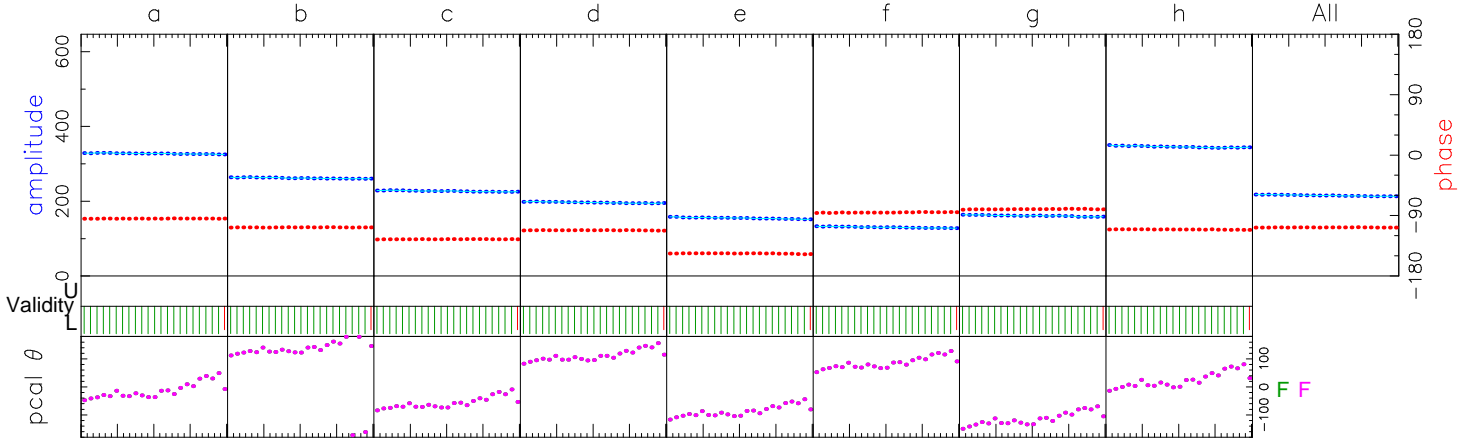
F: az 262.0 el 9.0 pa 39.1      F: az 262.0 el 9.0 pa 39.1      u,v (fr/asec) 0.000 0.000      simultaneous interpolator  
Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0577/FF.zpwwct    Output file: /Exps/c171a/gmva/1234/No0577/FF.W.231.zpwwct



Fringe quality 6  
SNR 6457.3  
Int time 239.895  
Amp 215.604  
Phase 252.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.063261  
MBD -0.000169  
Fringe rate (Hz) 0.000007  
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  
2017:215:022920  
2017:188:152524  
RA & Dec (J2000) 12h29m 6.6997s  
+2° 03' 8.598"

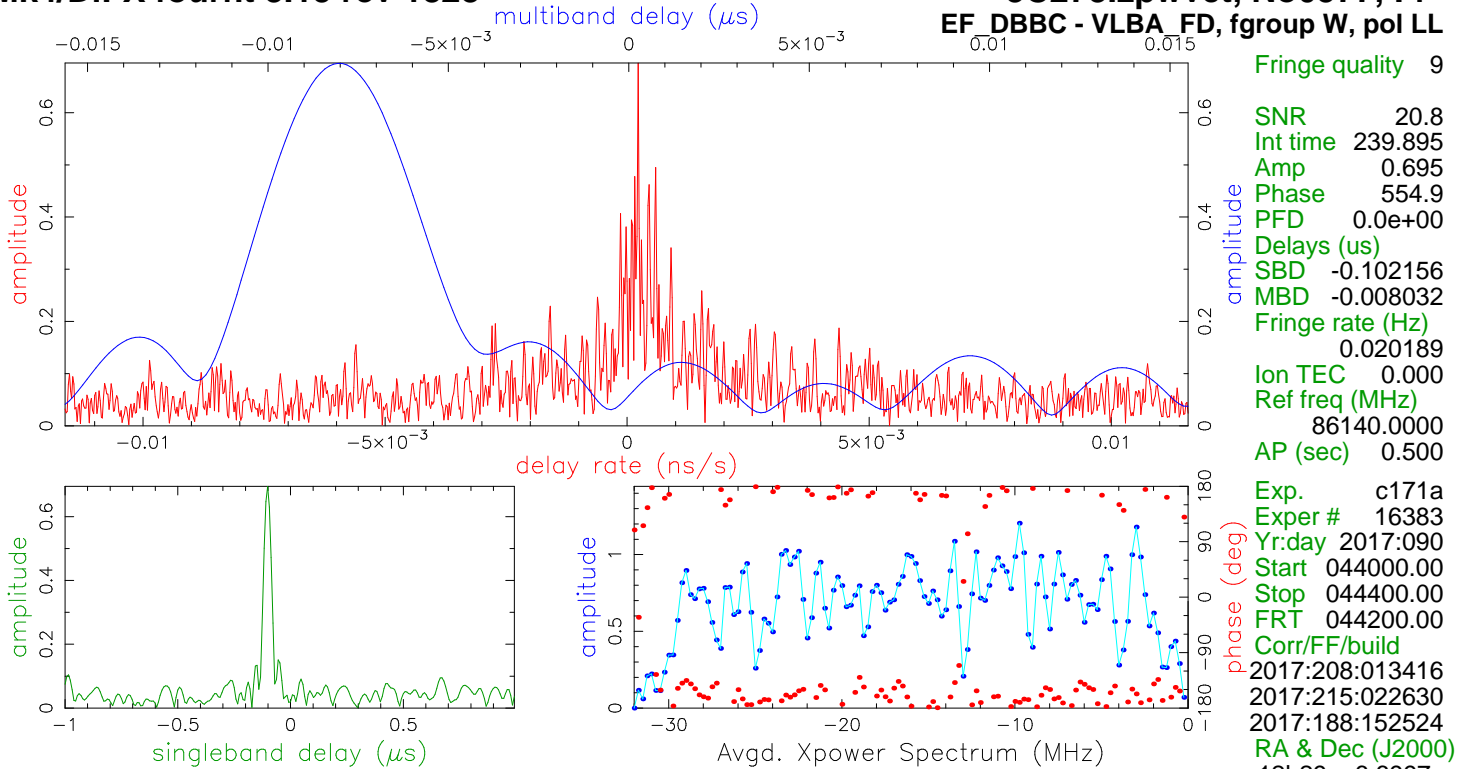


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



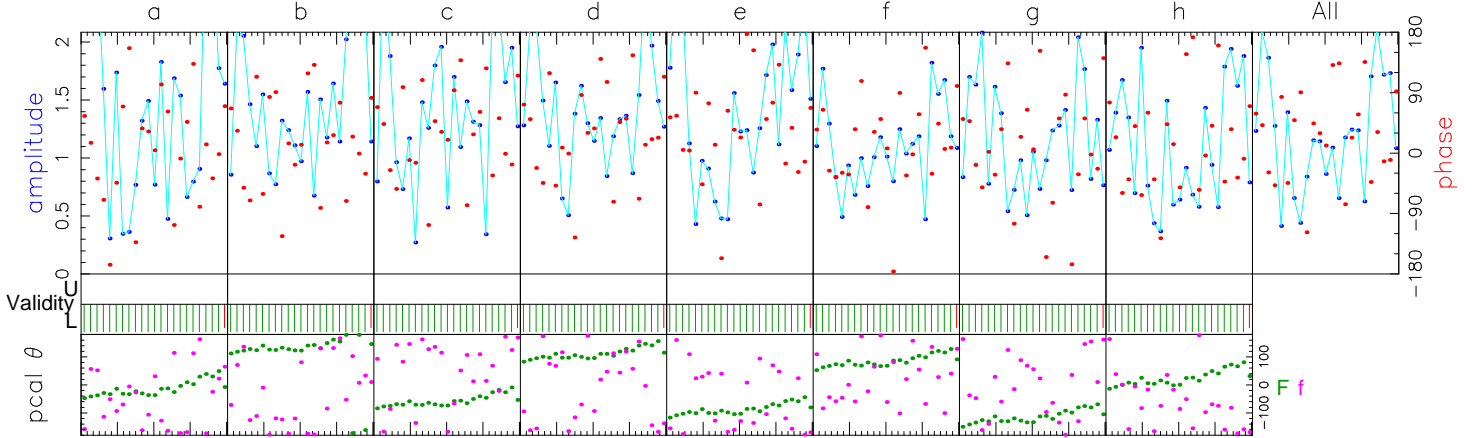
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
F	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		-6.26691250000E-02								
Sband delay (usec)		-6.32610000000E-02								
Phase delay (usec)		-3.47298900615E-06								
Delay rate (us/s)		7.98119340608E-11								
Total phase (deg)			252.3							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MSamp/s): 64										
Data rate(Mb/s): 1024										
nlags: 128 t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
PC period (AP's) 5, 5										
simultaneous interpolator										

ph/seg (deg) 0.1 0.0  
amp/seg (%) 0.7 0.1  
ph/frq (deg) 23.3 0.0  
amp/frq (%) 35.2 0.0  
RMS Theor. Amplitude 215.604 +/- 0.033  
Search (1024X32) 214.577  
Inc. seg. avg. 215.432  
Inc. frq. avg. 225.660  
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
Pcal rate: 0.000E+00, 0.000E+00 (us/s)  
SampCntNorm: enabled  
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  
F: az 262.0 el 9.0 pa 39.1 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FF..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/FF.W.232.zpwvct



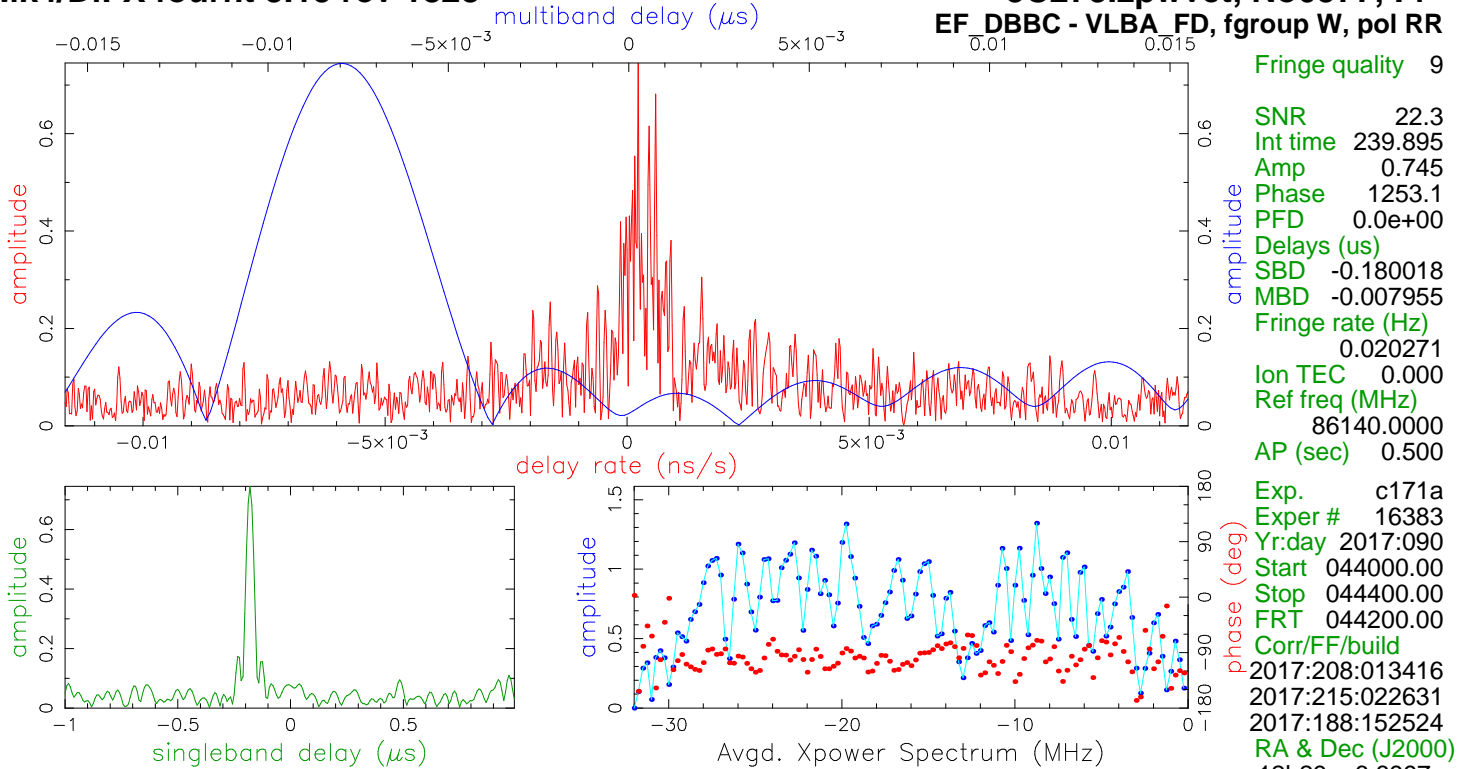
Fringe quality 9  
SNR 20.8  
Int time 239.895  
Amp 0.695  
Phase 554.9  
PFD 0.0e+00  
Delays (us)  
SBD -0.102156  
MBD -0.008032  
Fringe rate (Hz) 0.020189  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022630  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6977s  
+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

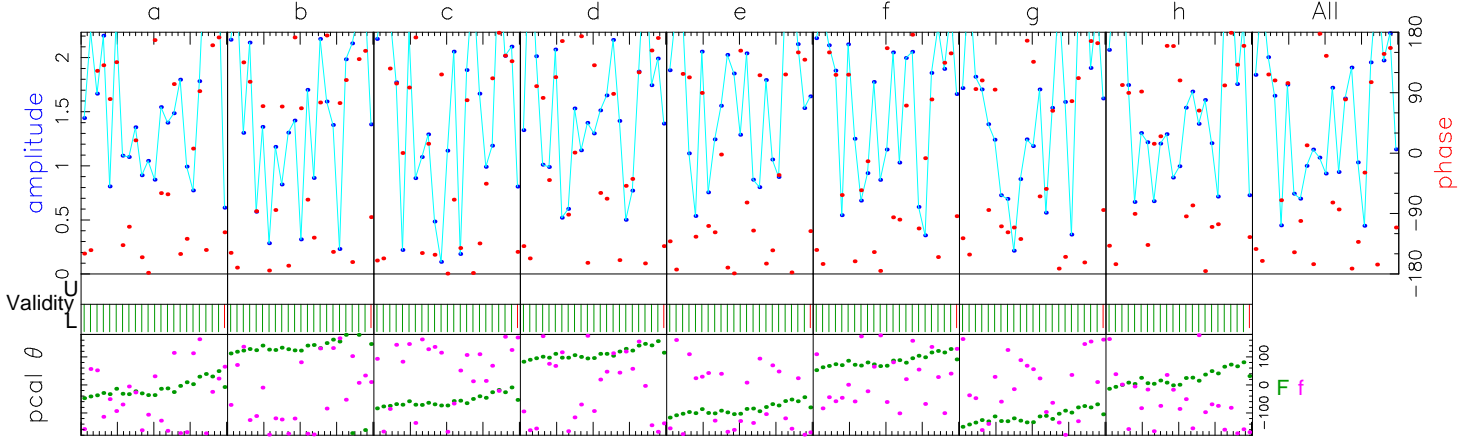


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	Ampl.	0.7
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	115.9
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)		-1.26117756590E+04		Apriori delay (usec)		-1.26116738770E+04		Resid mbdelay (usec)	-8.03204E-03	+/- 1.0E-04
Sband delay (usec)		-1.26117760335E+04		Apriori clock (usec)		2.9053398E+01		Resid sbdelay (usec)	-1.02156E-01	+/- 8.3E-04
Phase delay (usec)		-1.26116738765E+04		Apriori clockrate (us/s)		3.9640749E-07		Resid phdelay (usec)	4.80535E-07	+/- 1.8E-07
Delay rate (us/s)		-1.67997798537E+00		Apriori rate (us/s)		-1.67997821975E+00		Resid rate (us/s)	2.34377E-07	+/- 1.3E-09
Total phase (deg)			280.0	Apriori accel (us/s/s)		6.82196421581E-05		Resid phase (deg)	554.9	+/- 5.5
	RMS	Theor.	Amplitude	0.695 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
ph/seg (deg)	67.7	13.2	Search (1024X32)	0.644	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016	
amp/seg (%)	101.4	23.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012	
ph/frq (deg)	15.0	7.8	Inc. seg. avg.	1.177	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00	
amp/frq (%)	13.4	13.6	Inc. frq. avg.	0.707	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite				

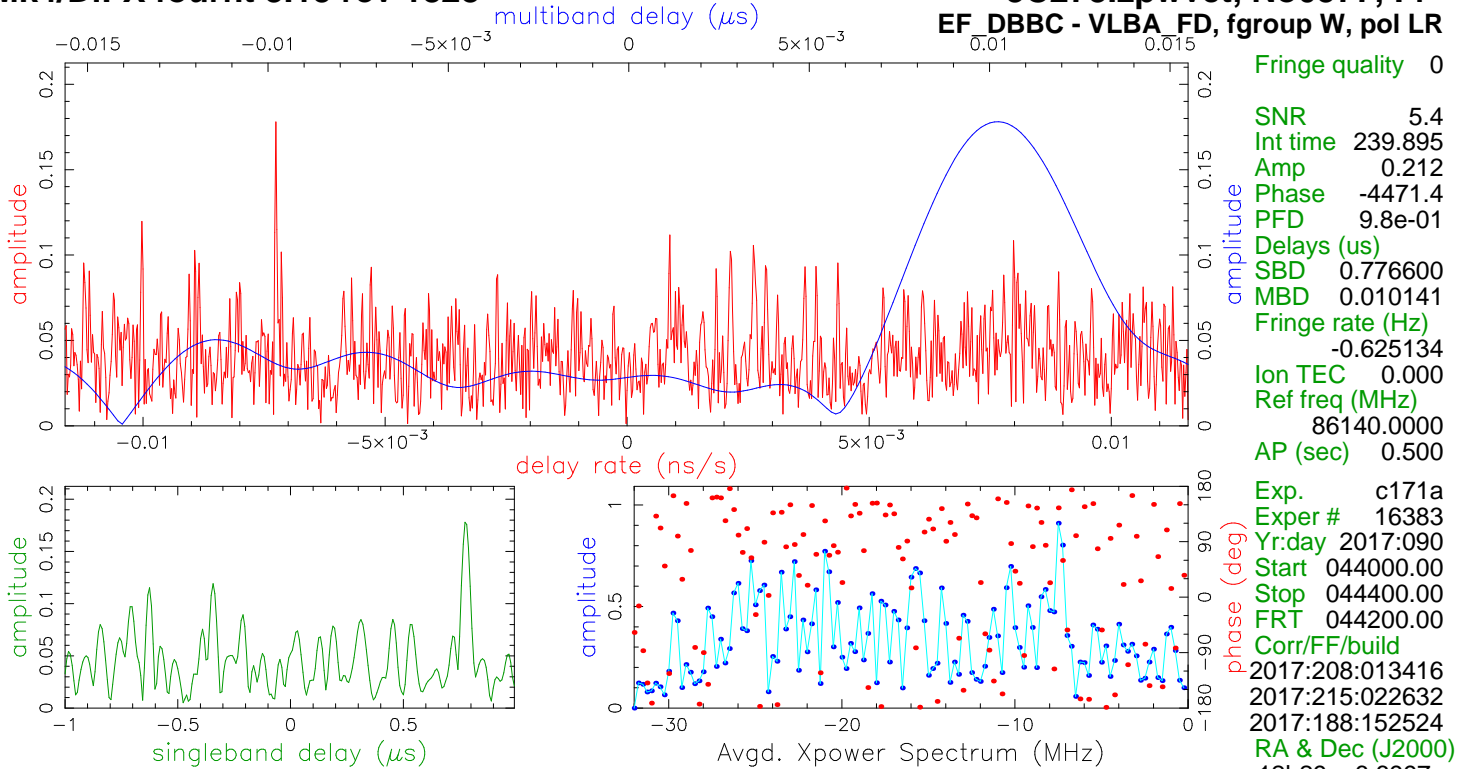




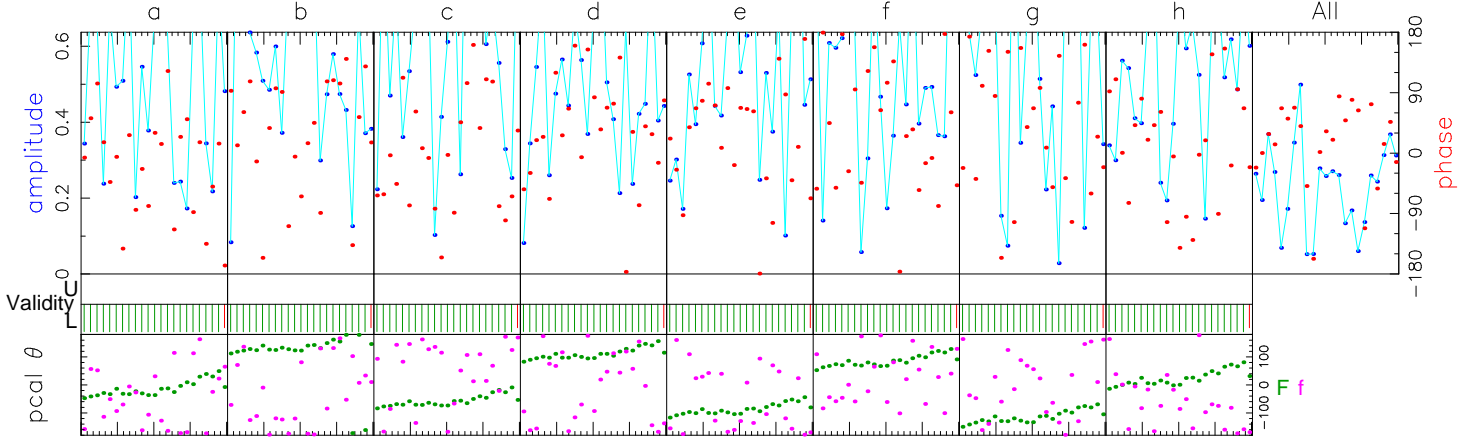
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-179.4	166.3	164.0	173.9	177.7	176.9	-177.3	161.2	Phase	173.1	
	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.7	Ampl.	0.7	
	105.6	106.3	106.5	105.9	105.7	106.5	105.7	105.4	Sbd box	106.0	
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		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
F:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
F:f	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		
f	1000	1000	1000	1000	1000	1000	1000	1000			
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Group delay (usec)(sbd)	-1.26118693320E+04		Apriori delay (usec)		-1.26116738770E+04		Resid mbdelay (usec)		-7.95497E-03 +/- 9.7E-05		
Sband delay (usec)	-1.26118538955E+04		Apriori clock (usec)		2.9053398E+01		Resid sbdelay (usec)		-1.80018E-01 +/- 7.7E-04		
Phase delay (usec)	-1.26116738714E+04		Apriori clockrate (us/s)		3.9640749E-07		Resid phdelay (usec)		5.58184E-06 +/- 1.7E-07		
Delay rate (us/s)	-1.67997798442E+00		Apriori rate (us/s)		-1.67997821975E+00		Resid rate (us/s)		2.35326E-07 +/- 1.2E-09		
Total phase (deg)	978.2		Apriori accel (us/s/s)		6.82196421581E-05		Resid phase (deg)		1253.1 +/- 5.1		
RMS	77.1	12.3	Amplitude	0.745 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's)		5, 5		
ph/seg (deg)	77.1	12.3	Search (1024X32)	0.677	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000		
amp/seg (%)	128.9	21.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016 0.016
ph/frq (deg)	8.7	7.3	Inc. seg. avg.	1.430	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012 0.012		
amp/frq (%)	9.7	12.7	Inc. frq. avg.	0.745	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)		0.00 0.00

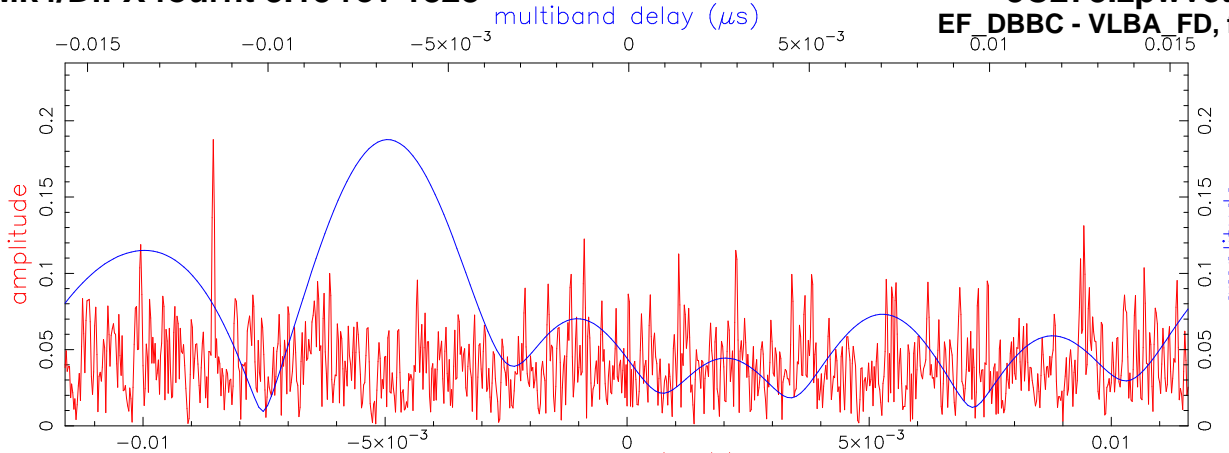


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
3.4	45.2	6.8	47.8	43.6	23.4	21.7	14.4	Phase	28.6
0.3	0.3	0.1	0.3	0.3	0.1	0.1	0.1	Ampl.	0.2
216.0	134.3	94.8	53.4	111.4	99.9	186.6	124.1	Sbd box	228.4
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	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.26108824860E+04		Apriori delay (usec)	-1.26116738770E+04		Resid mbdelay (usec)	1.01410E-02	+/-	4.0E-04
Sband delay (usec)	-1.26108972775E+04		Apriori clock (usec)	2.9053398E+01		Resid sbdelay (usec)	7.76600E-01	+/-	3.2E-03
Phase delay (usec)	-1.26116738761E+04		Apriori clockrate (us/s)	3.9640749E-07		Resid phdelay (usec)	9.20663E-07	+/-	6.9E-07
Delay rate (us/s)	-1.67998547694E+00		Apriori rate (us/s)	-1.67997821975E+00		Resid rate (us/s)	-7.25719E-06	+/-	4.9E-09
Total phase (deg)	-4746.3		Apriori accel (us/s/s)	6.82196421581E-05		Resid phase (deg)	-4471.4	+/-	21.3

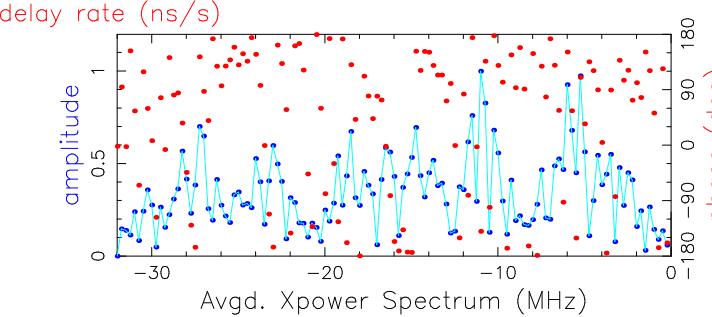
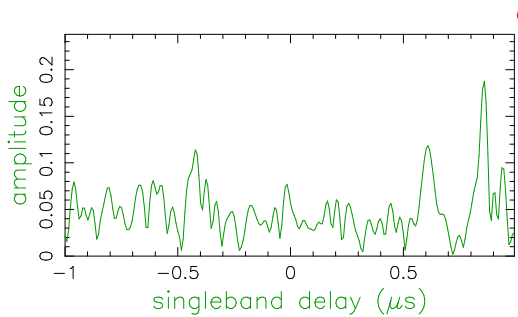
ph/seg (deg)	59.9	Theor. 51.0	Amplitude 51.0	0.212 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	69.1	89.0	Search (1024X32)	0.173	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	19.4	30.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	33.0	52.5	Inc. seg. avg.	0.196	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.194	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			



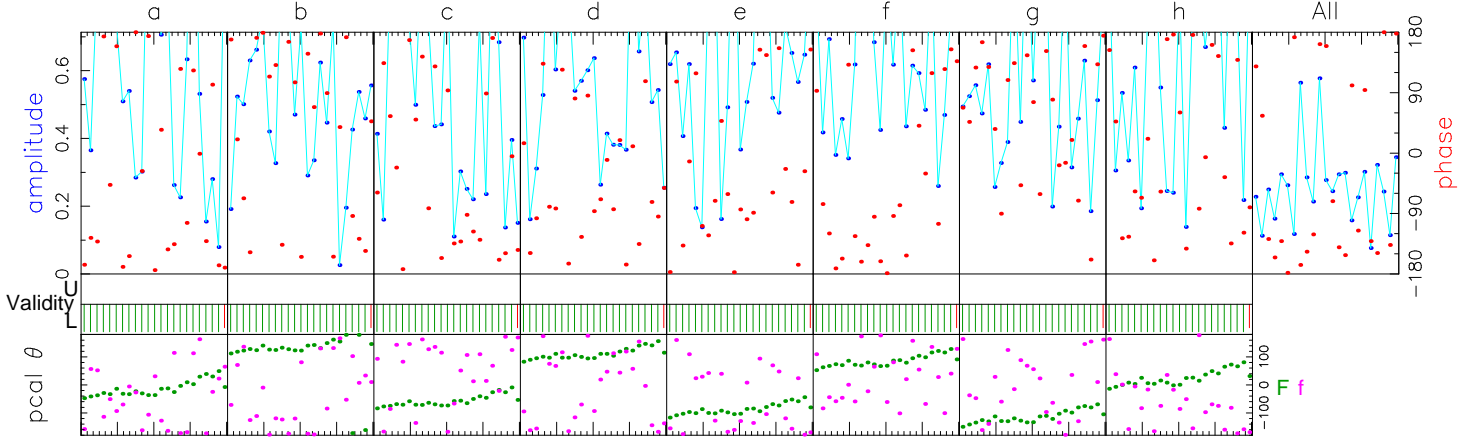
Fringe quality 0

SNR 5.6  
Int time 239.895  
Amp 0.238  
Phase -5206.3  
PFD 6.5e-01  
Delays (us)  
SBD 0.857798  
MBD -0.006737  
Fringe rate (Hz)  
-0.736317  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

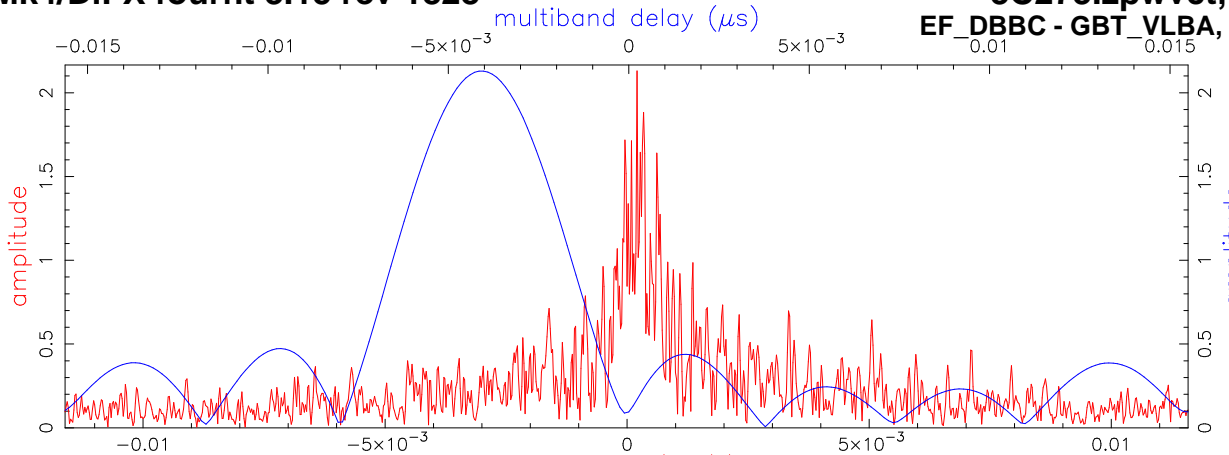
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022633  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"



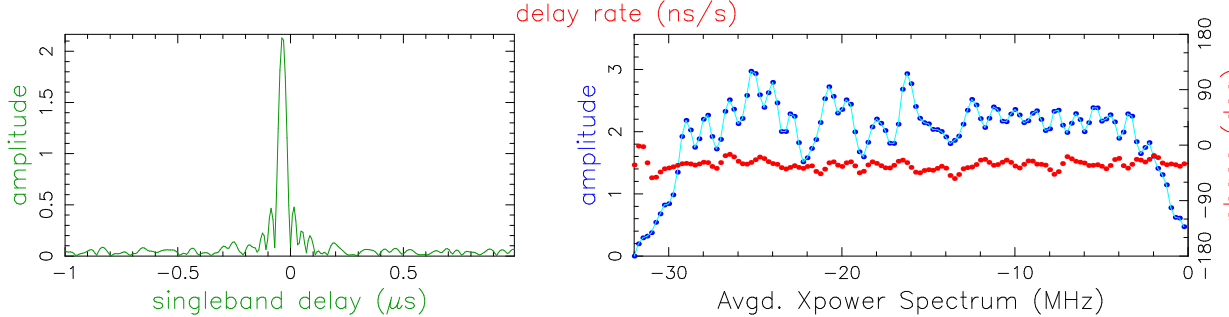
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



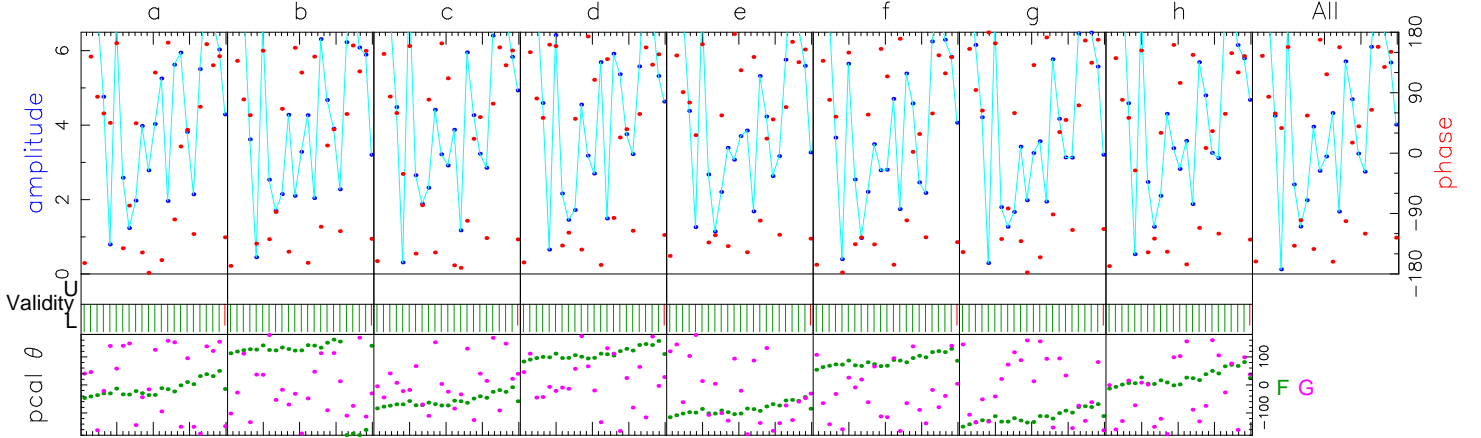
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-170.6	-177.5	178.9	-85.3	-137.2	-162.3	121.7	-148.7	Phase	-166.3
	0.4	0.3	0.2	0.1	0.3	0.4	0.2	0.2	Ampl.	0.2
	238.2	240.0	234.7	127.6	3.2	239.1	225.2	255.6	Sbd box	238.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)		-1.26108056144E+04		Apriori delay (usec)		-1.26116738770E+04		Resid mbdelay (usec)		-6.73744E-03 +/- 3.8E-04
Sband delay (usec)		-1.26108160795E+04		Apriori clock (usec)		2.9053398E+01		Resid sbdelay (usec)		8.57798E-01 +/- 3.1E-03
Phase delay (usec)		-1.26116738824E+04		Apriori clockrate (us/s)		3.9640749E-07		Resid phdelay (usec)		-5.36400E-06 +/- 6.6E-07
Delay rate (us/s)		-1.67998676766E+00		Apriori rate (us/s)		-1.67997821975E+00		Resid rate (us/s)		-8.54791E-06 +/- 4.7E-09
Total phase (deg)			-5121.2	Apriori accel (us/s/s)		6.82196421581E-05		Resid phase (deg)		-5206.3 +/- 20.3
RMS	53.4	48.7		Search (1024X32)	0.184			PCal mode: MANUAL, MANUAL		PC period (AP's) 5, 5
ph/seg (deg)	74.2	85.0		Interp.	0.000			PCal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000
amp/seg (%)	47.1	28.7		Inc. seg. avg.	0.241			Bits/sample: 2x2		SampCntNorm: enabled
ph/frq (deg)	44.0	50.1		Inc. frq. avg.	0.246			Sample rate(MSamp/s): 64		mb window (us) -0.016 0.016
amp/frq (%)								Data rate(Mb/s): 1024		dr window (ns/s) -0.012 0.012
								nlags: 128		ion window (TEC) 0.00 0.00
F: az 262.0 el 9.0 pa 39.1		f: az 126.5 el 47.8 pa -43.9		u,v (fr/asec) 9673.708 2500.883						simultaneous interpolator



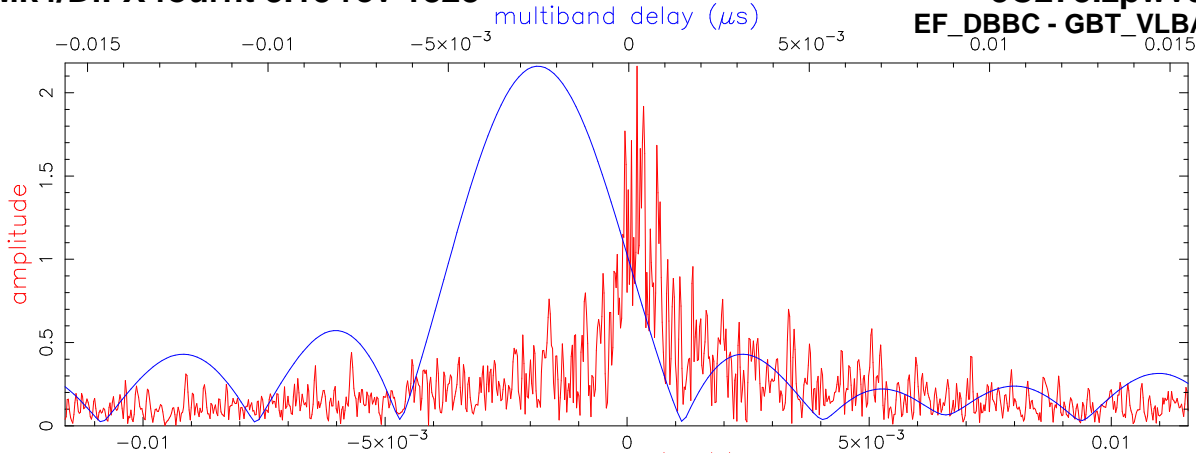
Fringe quality 5  
 SNR 64.7  
 Int time 238.965  
 Amp 2.166  
 Phase 330.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.035673  
 MBD -0.004071  
 Fringe rate (Hz) 0.016726  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044001.00  
 Stop 044400.00  
 FRT 044200.00  
 Corr/FF/build  
 2017:208:013416  
 2017:215:023003  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2°03' 8.598"



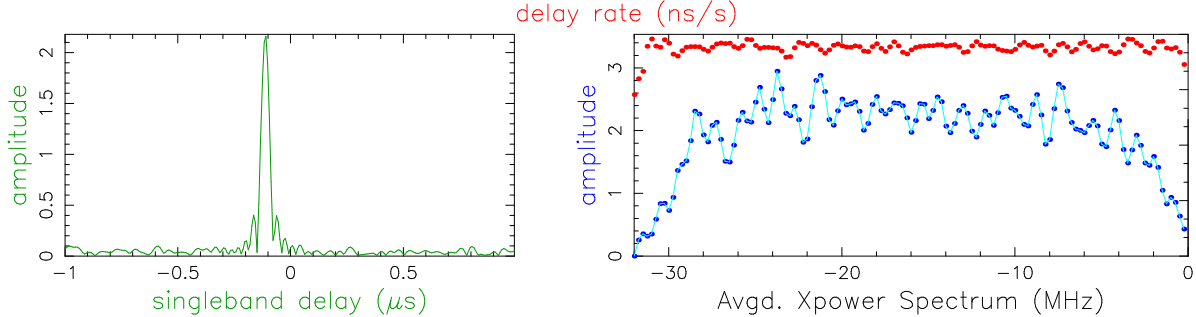
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



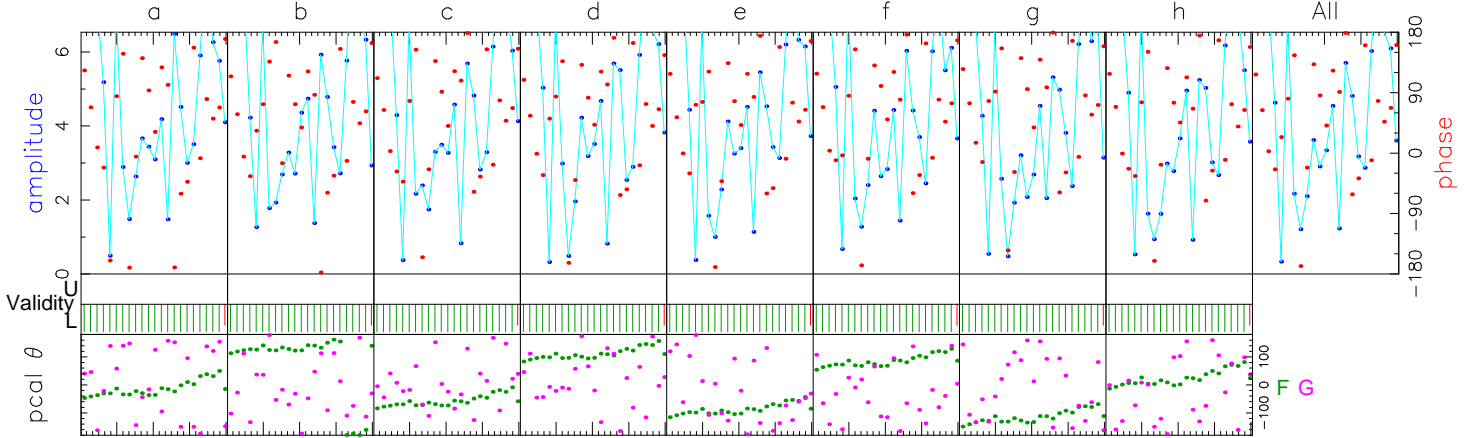
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	150.6	150.6
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	2.1	2.1
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	124.4	124.4
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	150.6	150.6
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	2.1	2.1
F	1000	1000	1000	1000	1000	1000	1000	1000	124.4	124.4
G	1000	1000	1000	1000	1000	1000	1000	1000	150.6	150.6
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Ampl.	2.1
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Sbd box	124.4
Group delay (usec)(sbd) -1.36961201761E+04 Apriori delay (usec) -1.36960848552E+04 Resid mbdelay (usec) -4.07083E-03 +/- 3.4E-05 Sband delay (usec) -1.36961205282E+04 Apriori clock (usec) 3.9563175E+01 Resid sbdelay (usec) -3.56730E-02 +/- 2.7E-04 Phase delay (usec) -1.36960848504E+04 Apriori clockrate (us/s) -2.5640010E-07 Resid phdelay (usec) 4.85652E-06 +/- 5.7E-08 Delay rate (us/s) -1.13953325196E+00 Apriori rate (us/s) -1.13953344613E+00 Resid rate (us/s) 1.94174E-07 +/- 4.1E-10 Total phase (deg) 175.8 Apriori accel (us/s/s) 7.36110546422E-05 Resid phase (deg) 330.6 +/- 1.8										
ph/seg (deg)	RMS 74.4	Theor. 4.2	Amplitude 2.166 +/- 0.033	Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5			sb window (us) -1.000 1.000
amp/seg (%)	149.5	7.4	Search (1024X32) 1.873	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			SampCntNorm: enabled			mb window (us) -0.016 0.016
ph/frq (deg)	5.9	2.5	Inc. seg. avg. 4.459	Bits/sample: 2x2			Sample rate(MSamp/s): 64			dr window (ns/s) -0.012 0.012
amp/frq (%)	4.9	4.4	Inc. frq. avg. 2.137	Data rate(Mb/s): 1024			nlags: 128 t_cohere infinite			ion window (TEC) 0.00 0.00



Fringe quality 5  
SNR 65.1  
Int time 238.965  
Amp 2.179  
Phase 608.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.111863  
MBD -0.002513  
Fringe rate (Hz) 0.016758  
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  
2017:215:023004  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2°03' 8.598"



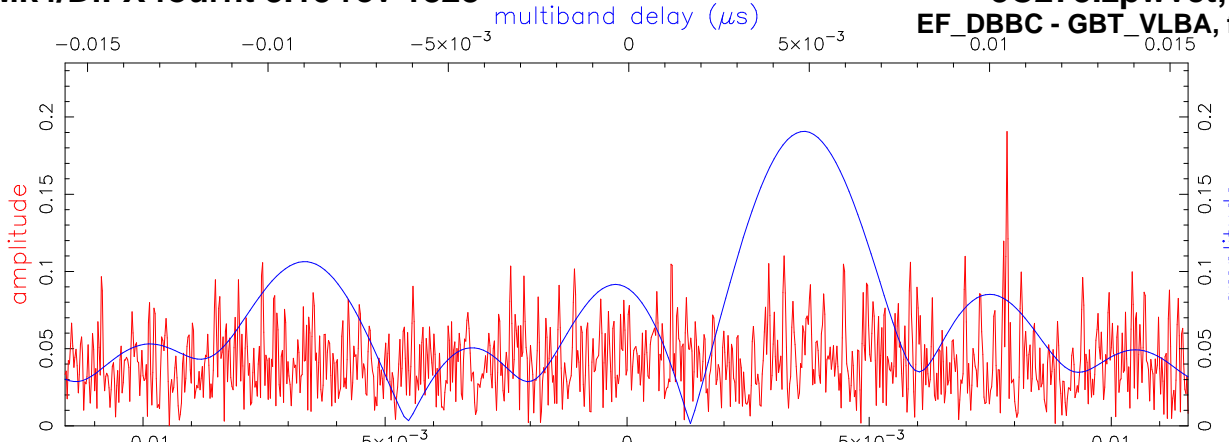
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	76.3	60.9	69.9	66.0	64.4	71.6	76.4	63.6	Phase	68.5
F	2.1	2.3	2.1	2.2	2.2	2.2	2.1	2.2	Ampl.	2.2
G	114.6	114.6	114.8	114.6	114.8	115.0	114.7	114.5	Sbd box	114.7
F	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	
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.36961811182E+04		Apriori delay (usec)		-1.36960848552E+04		Resid mbdelay (usec)		-2.51295E-03	+/- 3.3E-05
Sband delay (usec)	-1.36961967182E+04		Apriori clock (usec)		3.9563175E+01		Resid sbdelay (usec)		-1.11863E-01	+/- 2.6E-04
Phase delay (usec)	-1.36960848530E+04		Apriori clockrate (us/s)		-2.5640010E-07		Resid phdelay (usec)		2.20906E-06	+/- 5.7E-08
Delay rate (us/s)	-1.13953325158E+00		Apriori rate (us/s)		-1.13953344613E+00		Resid rate (us/s)		1.94550E-07	+/- 4.1E-10
Total phase (deg)	453.7		Apriori accel (us/s/s)		7.36110546422E-05		Resid phase (deg)		608.5	+/- 1.8

ph/seg (deg) 71.7 4.2 Search (1024X32) 1.893 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 150.7 7.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 6.3 2.5 Inc. seg. avg. 4.492 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
amp/frq (%) 3.0 4.3 Inc. frq. avg. 2.168 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 G: az 165.7 el 52.7 pa -10.7 u,v (fr/asec) 6580.324 1526.117 ion window (TEC) 0.00 0.00  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FG.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/FG.W.274.zpwvct simultaneous interpolator

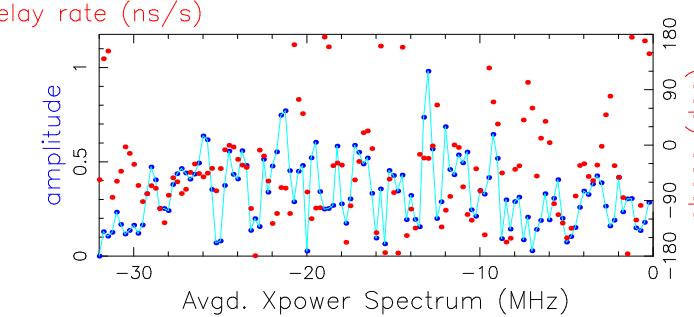
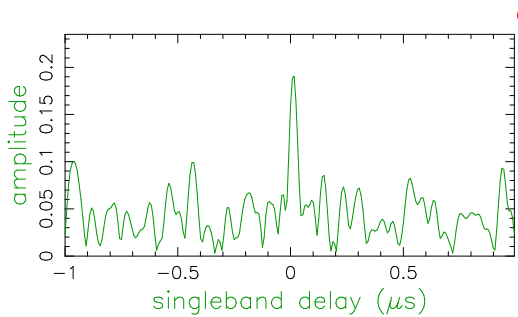




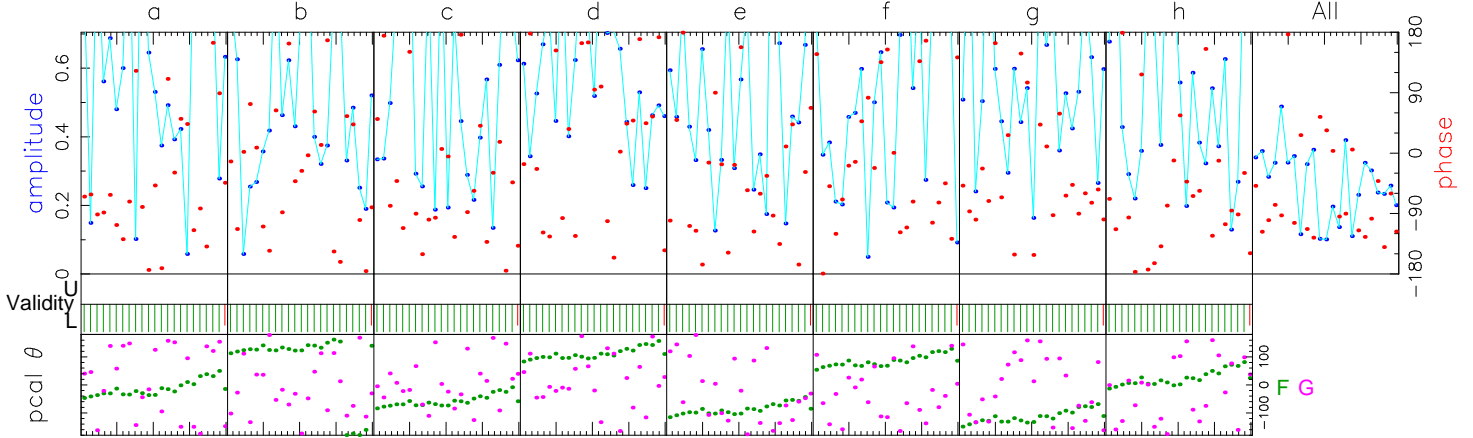
Fringe quality 0

SNR 5.8  
Int time 238.965  
Amp 0.235  
Phase -95.3  
PFD 3.8e-01  
Delays (us)  
SBD 0.012253  
MBD 0.004770  
Fringe rate (Hz)  
0.675996  
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  
2017:215:023005  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"



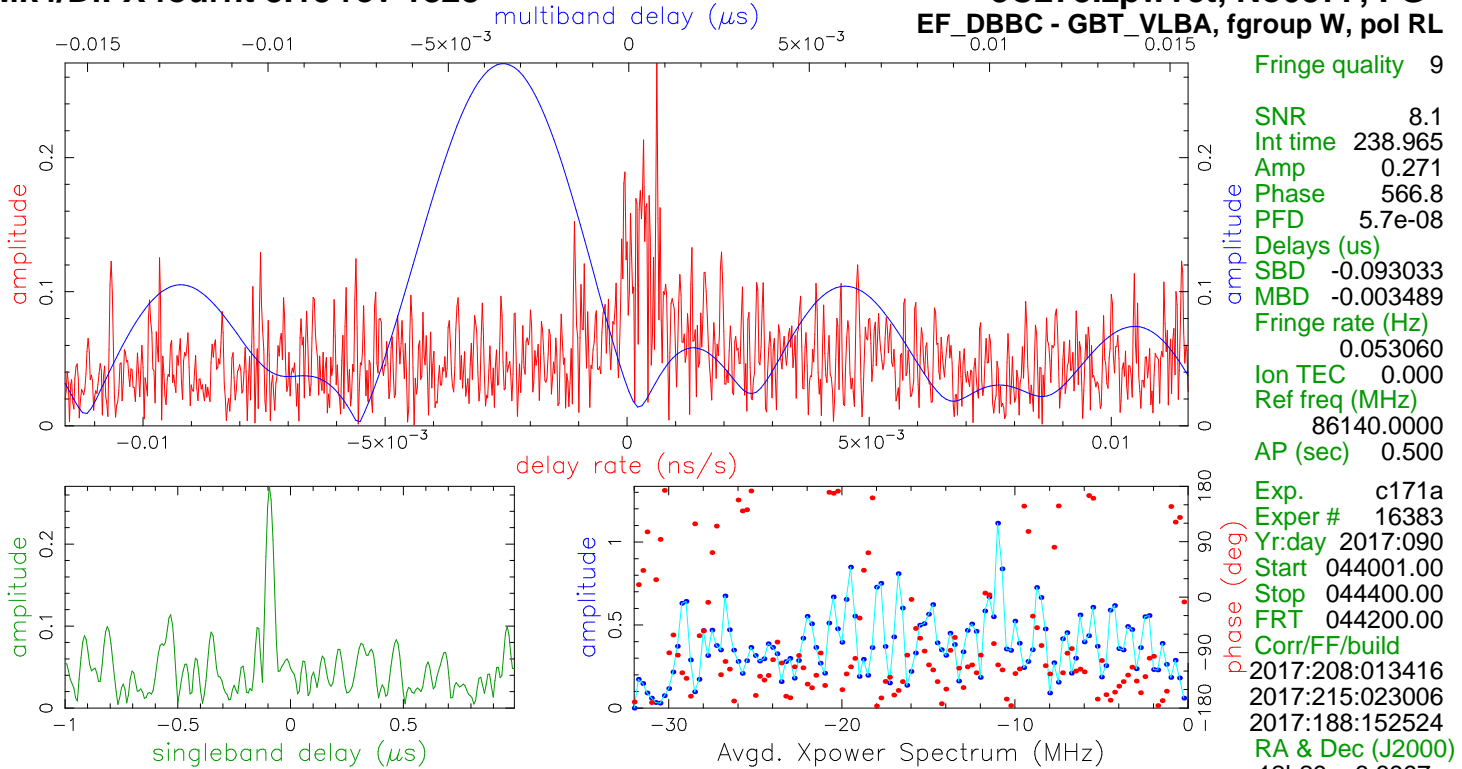
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



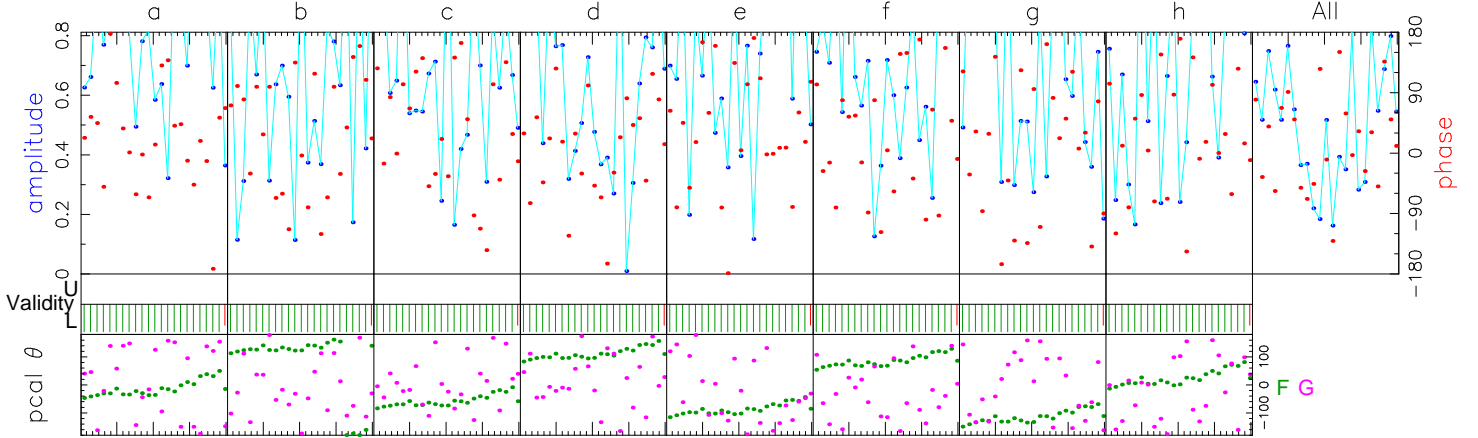
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	Ampl.	0.2
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	130.6
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	-1.36960800848E+04	Apriori delay (usec)	-1.36960848552E+04	Resid mbdelay (usec)	4.77042E-03	+/-	3.8E-04
Sband delay (usec)	-1.36960726017E+04	Apriori clock (usec)	3.9563175E+01	Resid sbdelay (usec)	1.22535E-02	+/-	3.0E-03
Phase delay (usec)	-1.36960848583E+04	Apriori clockrate (us/s)	-2.5640010E-07	Resid phdelay (usec)	-3.07426E-06	+/-	6.4E-07
Delay rate (us/s)	-1.13952559849E+00	Apriori rate (us/s)	-1.13953344613E+00	Resid rate (us/s)	7.84764E-06	+/-	4.6E-09
Total phase (deg)	-250.1	Apriori accel (us/s/s)	7.36110546422E-05	Resid phase (deg)	-95.3	+/-	19.8

ph/seg (deg)	64.1	Theor.	47.6	Amplitude	0.235 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	64.7		83.0	Search (1024X32)	0.187	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	38.8		28.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	44.6		49.0	Inc. seg. avg.	0.240	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.229	nlags:	128	t_cohere:	infinite			



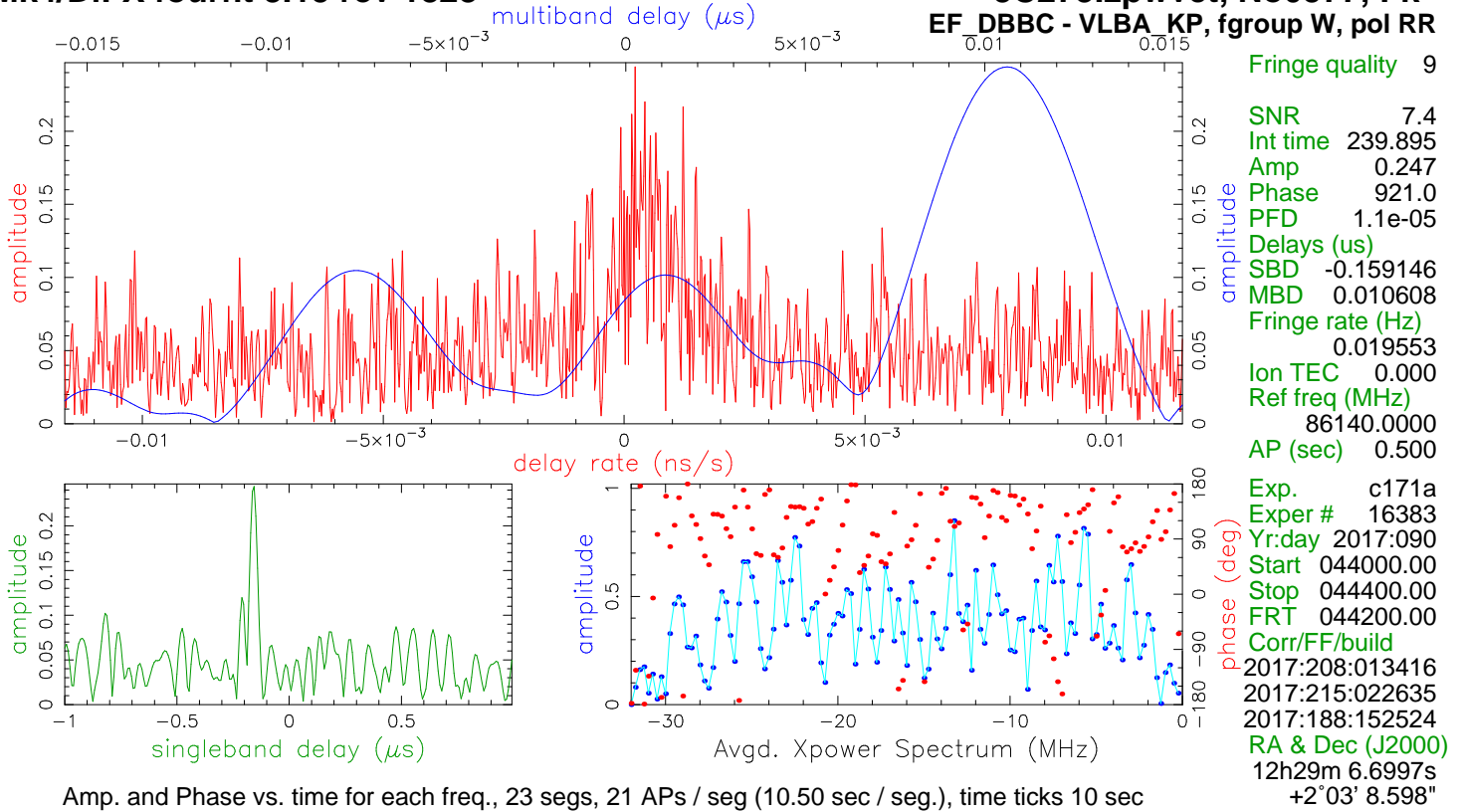
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



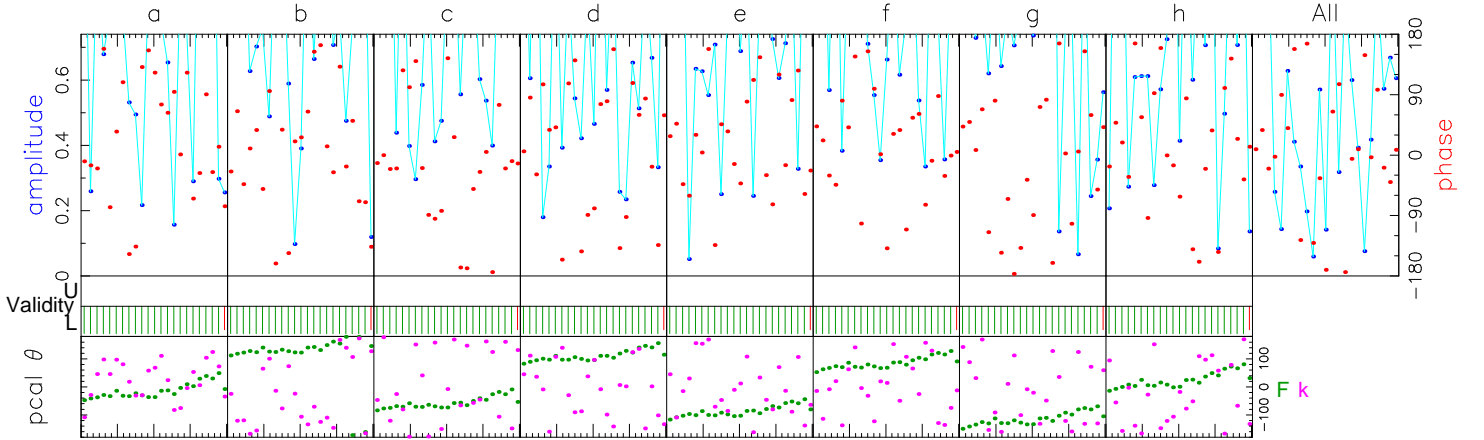
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
23.4	25.0	44.2	26.2	35.2	-1.2	28.4	30.7		Phase	26.8
0.5	0.2	0.2	0.3	0.4	0.2	0.2	0.3		Ampl.	0.3
117.1	222.7	128.0	117.6	116.1	60.4	124.5	187.6		Sbd box	117.1
U/L 0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478		APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
F:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
F:G 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	
G 1000	1000	1000	1000	1000	1000	1000	1000			
F W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		Chan ids	
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.36961820938E+04		Apriori delay (usec)	-1.36960848552E+04		Resid mbdelay (usec)	-3.48855E-03	+/-	2.7E-04	
Sband delay (usec)	-1.36961778877E+04		Apriori clock (usec)	3.9563175E+01		Resid sbdelay (usec)	-9.30325E-02	+/-	2.1E-03	
Phase delay (usec)	-1.36960848544E+04		Apriori clockrate (us/s)	-2.5640010E-07		Resid phdelay (usec)	8.63729E-07	+/-	4.6E-07	
Delay rate (us/s)	-1.13953283015E+00		Apriori rate (us/s)	-1.13953344613E+00		Resid rate (us/s)	6.15977E-07	+/-	3.3E-09	
Total phase (deg)		412.0	Apriori accel (us/s/s)	7.36110546422E-05		Resid phase (deg)	566.8	+/-	14.2	

ph/seg (deg) 71.1 34.0 Search (1024X32) 0.259 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 117.2 59.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 14.1 20.1 Inc. seg. avg. 0.435 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 38.7 35.0 Inc. frq. avg. 0.259 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 G: az 165.7 el 52.7 pa -10.7 u,v (fr/asec) 6580.324 1526.117 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FG.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/FG.W.276.zpwvct simultaneous interpolator

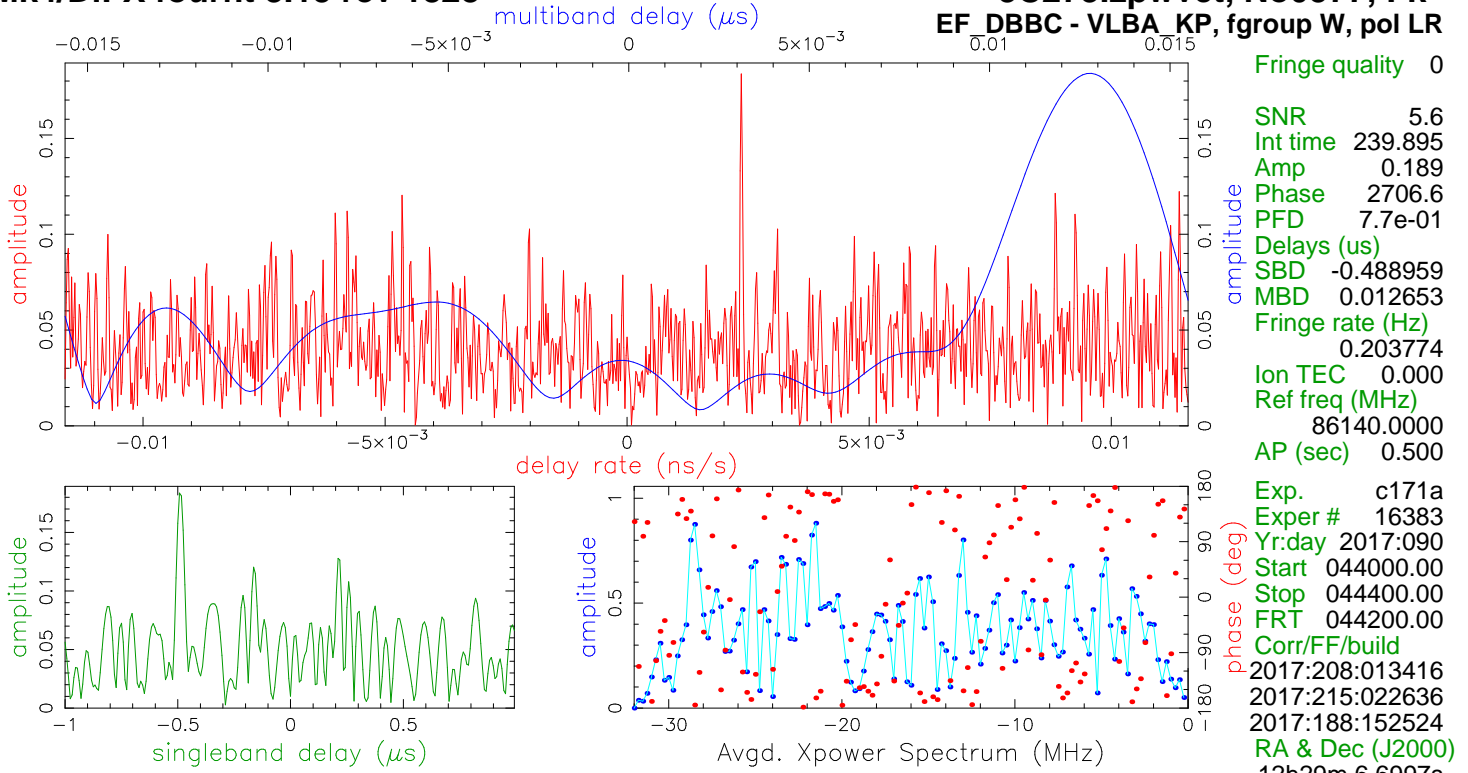




Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	42.5	14.0	-10.4	60.1	8.0	17.9	42.6	26.5	Phase	21.0
	0.2	0.3	0.3	0.3	0.3	0.3	0.0	0.3	Ampl.	0.2
	67.4	251.5	108.9	74.8	110.6	108.9	66.7	108.0	Sbd box	108.6
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	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.09890819241E+04		Apriori delay (usec)		-1.09889362819E+04		Resid mbdelay (usec)		1.06078E-02	+/- 2.9E-04
Sband delay (usec)	-1.09890954279E+04		Apriori clock (usec)		3.1364964E+01		Resid sbdelay (usec)		-1.59146E-01	+/- 2.3E-03
Phase delay (usec)	-1.09889362812E+04		Apriori clockrate (us/s)		-2.2380921E-08		Resid phdelay (usec)		6.76591E-07	+/- 5.0E-07
Delay rate (us/s)	-1.81260205516E+00		Apriori rate (us/s)		-1.81260228214E+00		Resid rate (us/s)		2.26987E-07	+/- 3.6E-09
Total phase (deg)	804.4		Apriori accel (us/s/s)		5.95271612621E-05		Resid phase (deg)		921.0	+/- 15.5
	RMS	Theor.	Amplitude	0.247 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	90.9	37.2	Search (1024X32)	0.242	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	171.4	64.9	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	24.8	21.9	Inc. seg. avg.	0.438	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	37.2	38.3	Inc. frq. avg.	0.244	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	k: az 120.0 el 41.6 pa -47.1		u,v (fr/asec) 10427.668 2302.584						simultaneous interpolator	
Control file: ../cf_1234	Input file: /Exps/c171a/gmva/1234/No0577/Fk.zpwwct		Output file: /Exps/c171a/gmva/1234/No0577/Fk.W.82.zpwwct							



Fringe quality 0

SNR 5.6

Int time 239.895

Amp 0.189

Phase 2706.6

PFD 7.7e-01

Delays (us)

SBD -0.488959

MBD 0.012653

Fringe rate (Hz) 0.203774

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

2017:215:022636

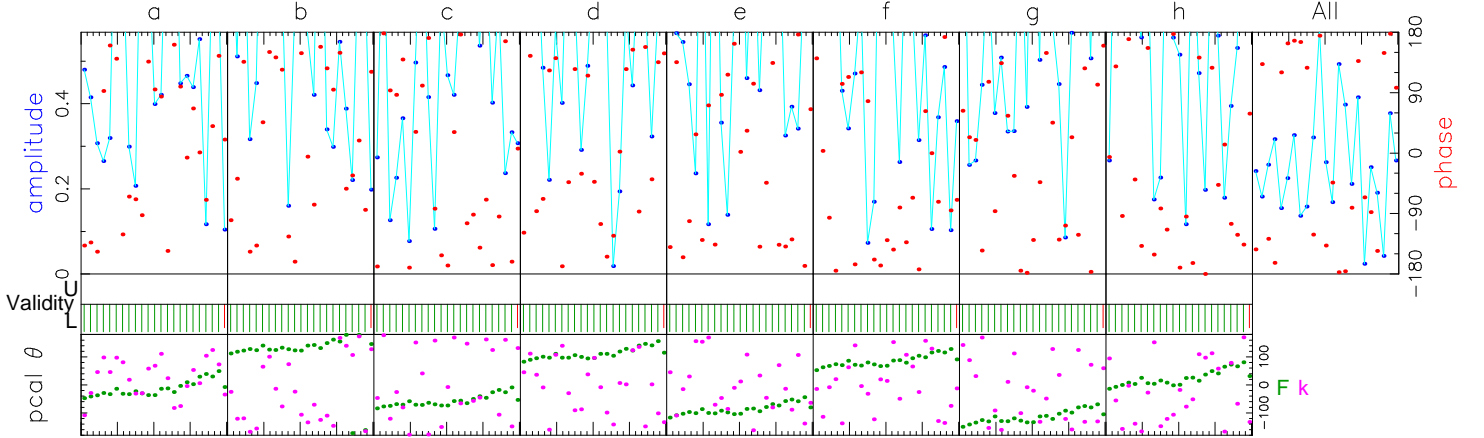
2017:188:152524

RA & Dec (J2000)

12h29m 6.6997s

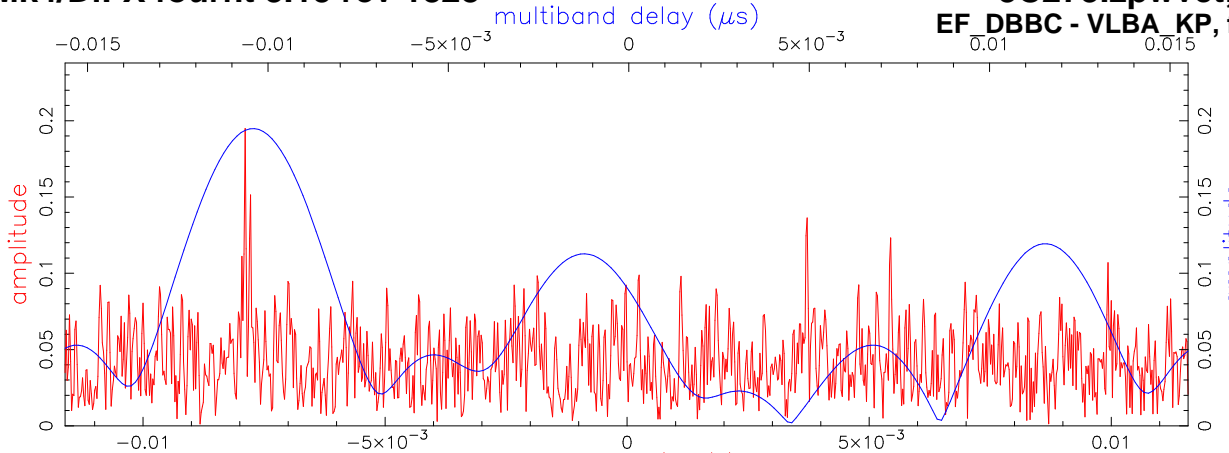
+2° 03' 8.598"

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	
	165.7	156.4	-154.1	-148.9	-170.5	-153.7	145.4	-160.7	Phase	-173.4	
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	Ampl.	0.2	
	169.2	13.9	19.4	125.8	14.8	227.8	93.7	101.9	Sbd box	66.4	
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		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
F:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
F:k	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		
k	1000	1000	1000	1000	1000	1000	1000	1000			
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
									Tracks		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Group delay (usec)(sbd)	-1.09894236292E+04		Apriori delay (usec)		-1.09889362819E+04		Resid mbdelay (usec)		1.26527E-02	+/- 3.9E-04	
Sband delay (usec)	-1.09894252404E+04		Apriori clock (usec)		3.1364964E+01		Resid sbdelay (usec)		-4.88959E-01	+/- 3.1E-03	
Phase delay (usec)	-1.09889362875E+04		Apriori clockrate (us/s)		-2.2380921E-08		Resid phdelay (usec)		-5.59137E-06	+/- 6.6E-07	
Delay rate (us/s)	-1.81259991653E+00		Apriori rate (us/s)		-1.81260228214E+00		Resid rate (us/s)		2.36561E-06	+/- 4.8E-09	
Total phase (deg)	2590.0		Apriori accel (us/s/s)		5.95271612621E-05		Resid phase (deg)		2706.6	+/- 20.6	
RMS	57.4	49.3	Amplitude	0.189 +/- 0.034		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	80.3	86.0	Search (1024X32)	0.179		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	27.6	29.1	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	21.9	50.7	Inc. seg. avg.	0.194		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)			Inc. frq. avg.	0.180		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00	
						nlags: 128 t_cohere infinite					

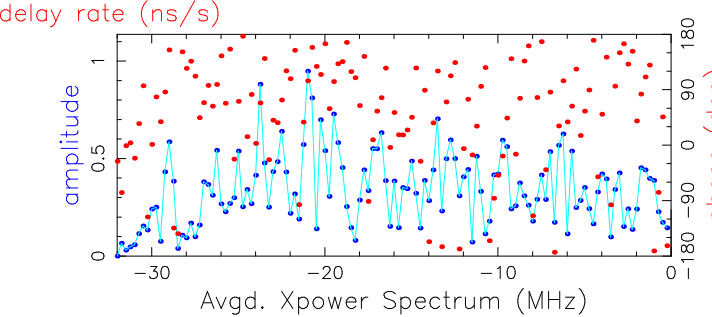
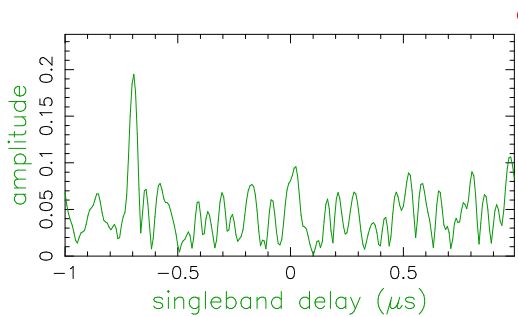




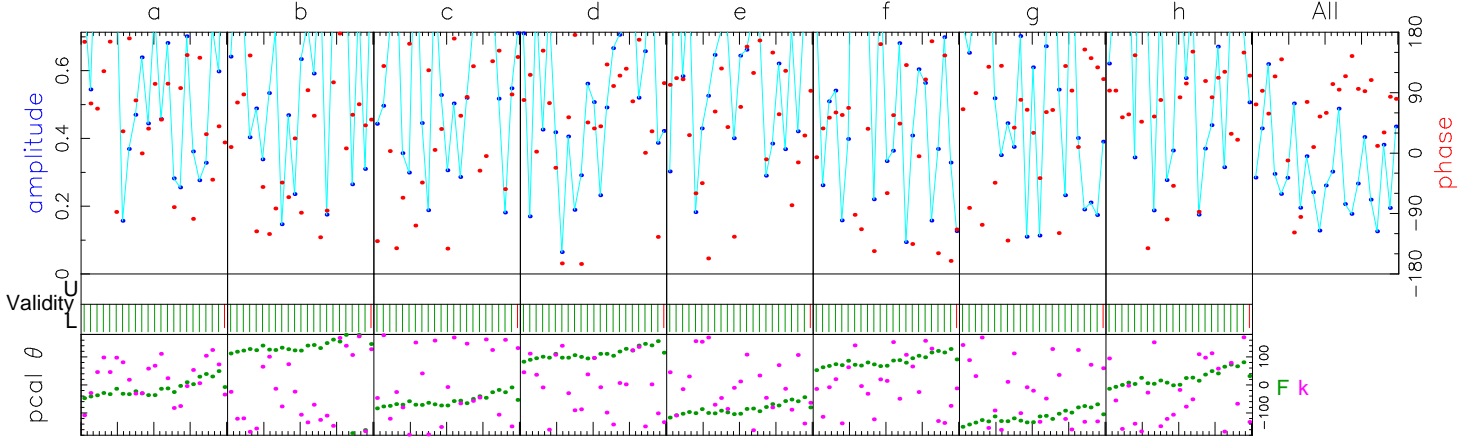
Fringe quality 0

SNR 5.8  
Int time 239.895  
Amp 0.238  
Phase 4040.6  
PFD 2.7e-01  
Delays (us)  
SBD -0.696413  
MBD -0.010444  
Fringe rate (Hz)  
-0.679944  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

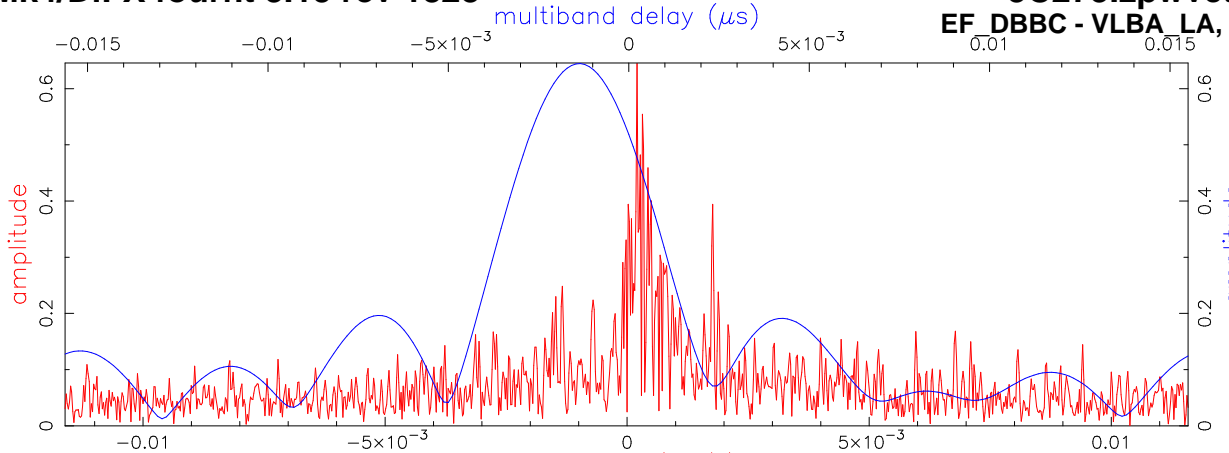
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022637  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"



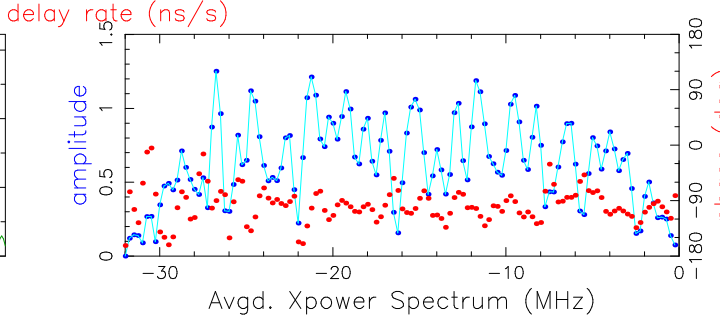
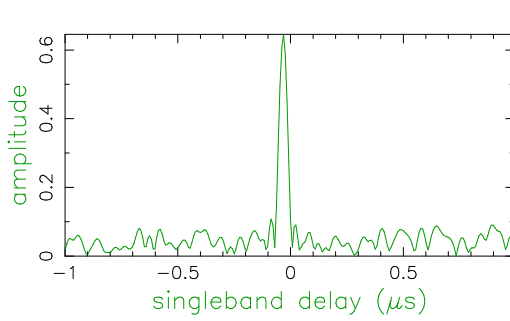
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



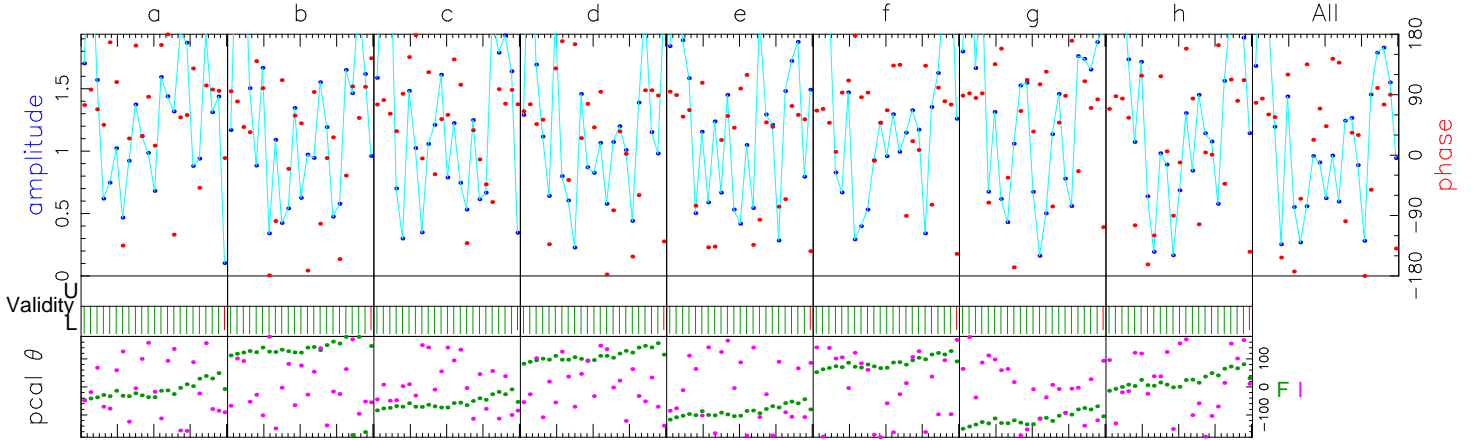
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	80.6	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Phase	80.6
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	0.2
F:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	39.9
F:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC phase	
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	ManI PC	
									PC amp	
Group delay (usec)(sbd)	-1.09896342260E+04								Resid mbdelay (usec)	-1.04441E-02 +/- 3.7E-04
Sband delay (usec)	-1.09896326944E+04								Resid sbdelay (usec)	-6.96413E-01 +/- 2.9E-03
Phase delay (usec)	-1.09889362793E+04								Resid phdelay (usec)	2.59936E-06 +/- 6.3E-07
Delay rate (us/s)	-1.81261017562E+00								Resid rate (us/s)	-7.89347E-06 +/- 4.6E-09
Total phase (deg)		3924.0							Resid phase (deg)	4040.6 +/- 19.6
	RMS	Theor.	Amplitude	0.238 +/- 0.041					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	63.2	47.0	Search (1024X32)	0.188					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	84.9	82.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	43.7	27.7	Inc. seg. avg.	0.278					Sample rate(MSamp/s): 64	dr window (ns/s) -0.012 0.012
amp/frq (%)	64.4	48.4	Inc. frq. avg.	0.219					Data rate(Mb/s): 1024	ion window (TEC) 0.00 0.00
F: az 262.0 el 9.0 pa 39.1		k: az 120.0 el 41.6 pa -47.1		u,v (fr/asec) 10427.668 2302.584					nlags: 128 t_cohere infinite	simultaneous interpolator



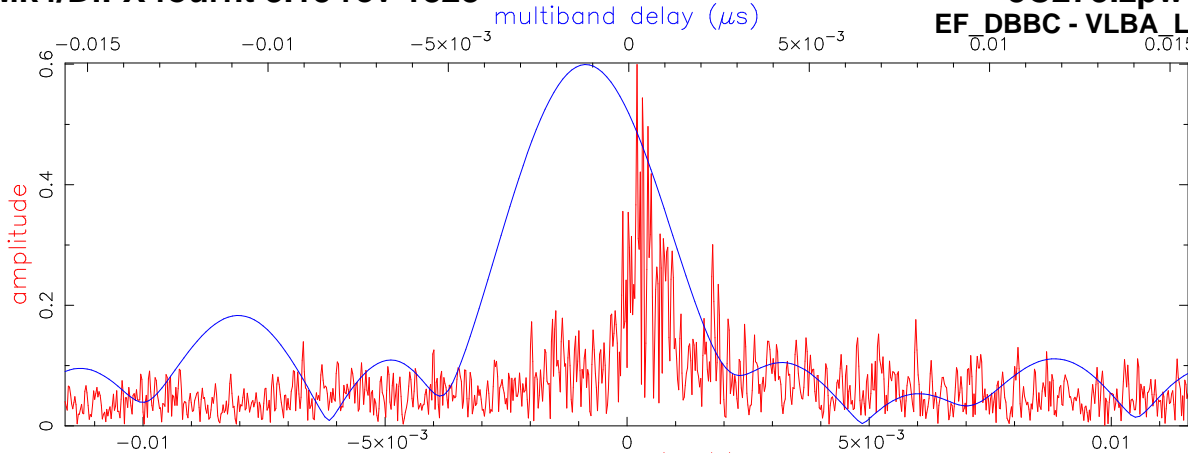
Fringe quality 9  
SNR 19.3  
Int time 239.895  
Amp 0.646  
Phase 258.9  
PFD 0.0e+00  
Delays (us)  
SBD -0.032277  
MBD -0.001374  
Fringe rate (Hz) 0.017282  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022639  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"



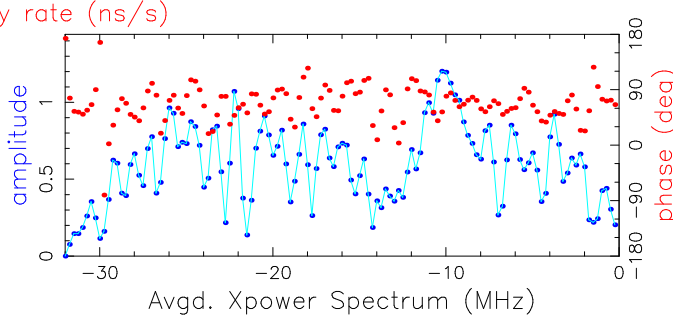
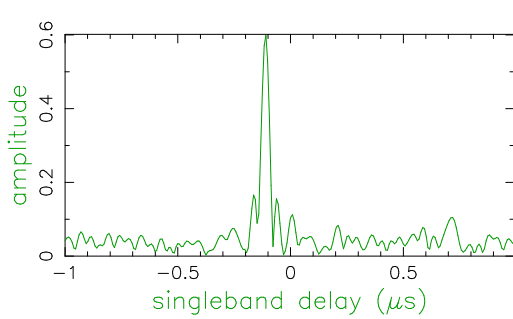
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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.	0.6
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	124.9
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
F:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
F:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.14013465951E+04								Resid mbdelay (usec)	-1.37400E-03 +/- 1.1E-04
Sband delay (usec)	-1.14013462481E+04								Resid sbdelay (usec)	-3.22770E-02 +/- 8.9E-04
Phase delay (usec)	-1.14013139686E+04								Resid phdelay (usec)	2.54529E-06 +/- 1.9E-07
Delay rate (us/s)	-1.68184226296E+00								Resid rate (us/s)	2.00624E-07 +/- 1.4E-09
Total phase (deg)			88.8						Resid phase (deg)	258.9 +/- 5.9
	RMS	Theor.	Amplitude	0.646 +/- 0.033					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	80.4	14.2	Search (1024X32)	0.624					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	124.5	24.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	10.7	8.4	Inc. seg. avg.	1.107					Sample rate(MSamp/s): 64	dr window (ns/s) -0.012 0.012
amp/frq (%)	15.0	14.6	Inc. frq. avg.	0.647					Data rate(Mb/s): 1024	ion window (TEC) 0.00 0.00
F: az 262.0 el 9.0 pa 39.1		I: az 128.2 el 43.2 pa -39.4		u,v (fr/asec) 9679.635 1818.551					nlags: 128 t_cohere infinite	simultaneous interpolator

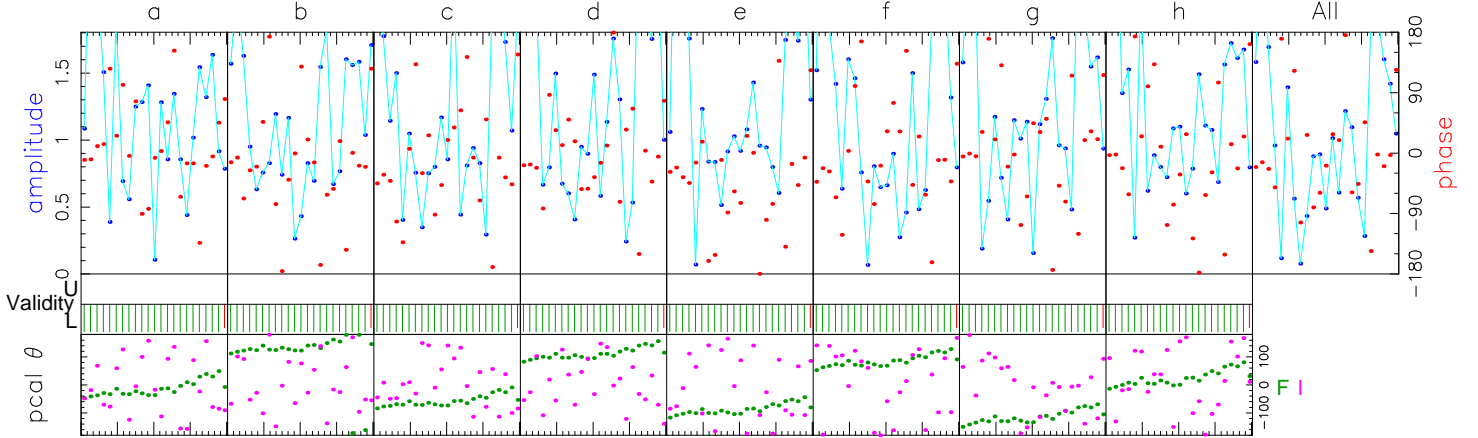


Fringe quality 9  
SNR 18.0  
Int time 239.895  
Amp 0.602  
Phase 700.2  
PFD 0.0e+00  
Delays (us)  
SBD -0.111074  
MBD -0.001194  
Fringe rate (Hz) 0.017388  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022640  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"

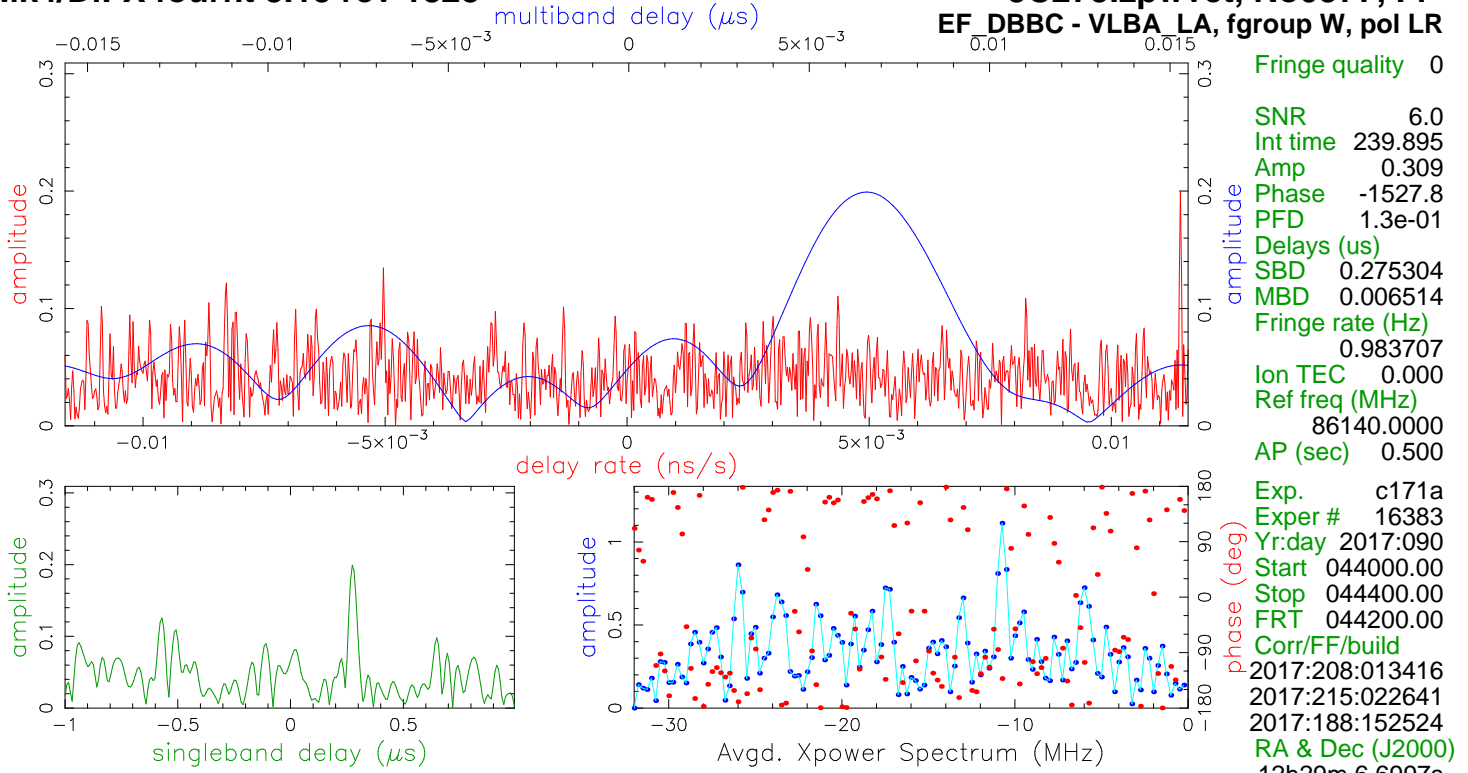


Avgd. Xpower Spectrum (MHz)

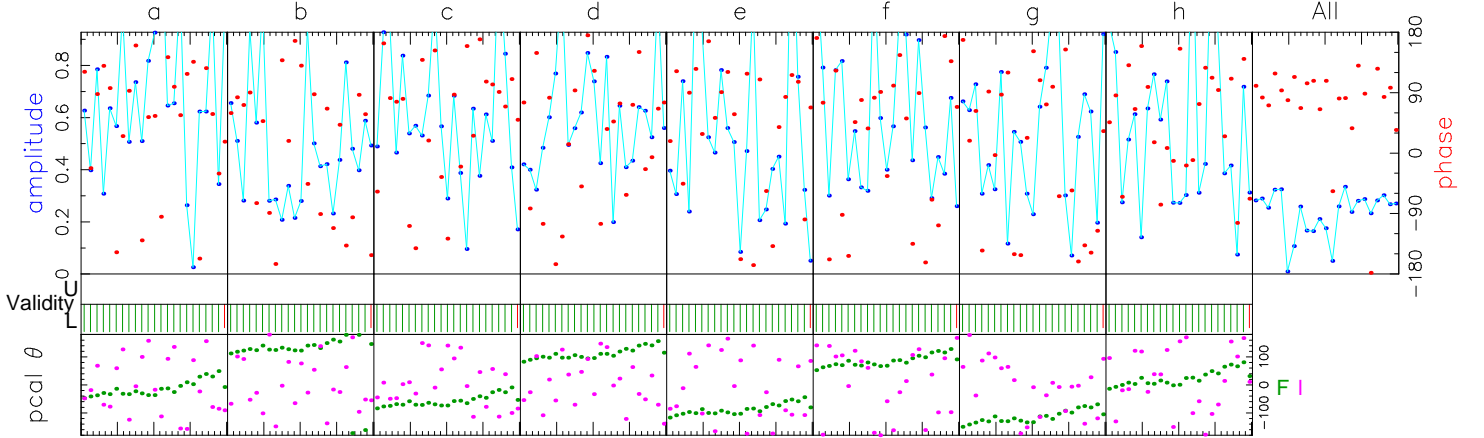
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



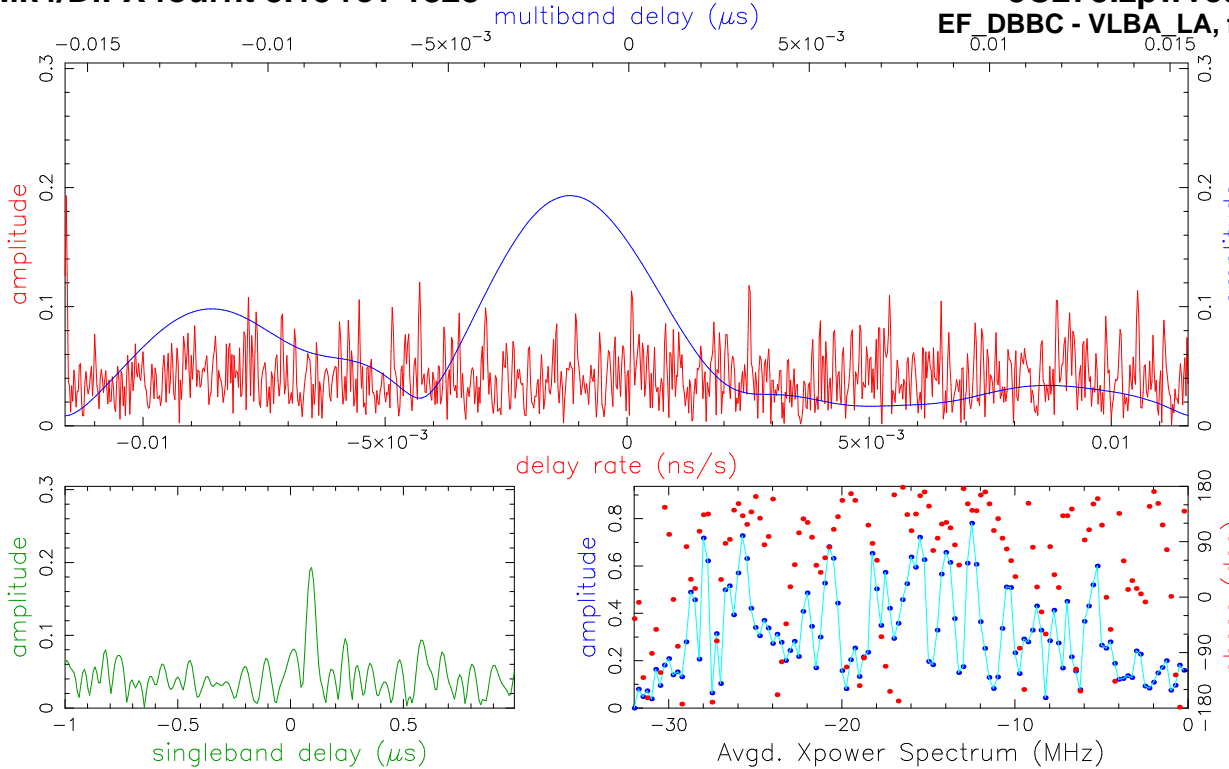
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-1.14014401648E+04		Apriori delay (usec)	-1.14013139711E+04		Resid mbdelay (usec)	-1.19369E-03		+/- 1.2E-04
Sband delay (usec)		-1.14014250456E+04		Apriori clock (usec)	3.2572906E+01		Resid sbdelay (usec)	-1.11074E-01		+/- 9.6E-04
Phase delay (usec)		-1.14013139718E+04		Apriori clockrate (us/s)	7.6213009E-08		Resid phdelay (usec)	-6.39485E-07		+/- 2.1E-07
Delay rate (us/s)		-1.68184226173E+00		Apriori rate (us/s)	-1.68184246359E+00		Resid rate (us/s)	2.01856E-07		+/- 1.5E-09
Total phase (deg)			530.0	Apriori accel (us/s/s)	6.15133901048E-05		Resid phase (deg)	700.2		+/- 6.4
ph/seg (deg)	RMS 77.7	Theor. 15.2	Amplitude 0.602 +/- 0.033	Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5			
amp/seg (%)	132.2	26.6	Search (1024X32) 0.590	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000	1.000	
ph/frq (deg)	15.4	9.0	Interp. 0.000	Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.016	0.016
amp/frq (%)	14.9	15.7	Inc. seg. avg. 1.030	Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012	0.012	
			Inc. frq. avg. 0.609	Data rate(Mb/s): 1024			ion window (TEC)	0.00	0.00	
				nlags: 128 t_cohere infinite			simultaneous interpolator			



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

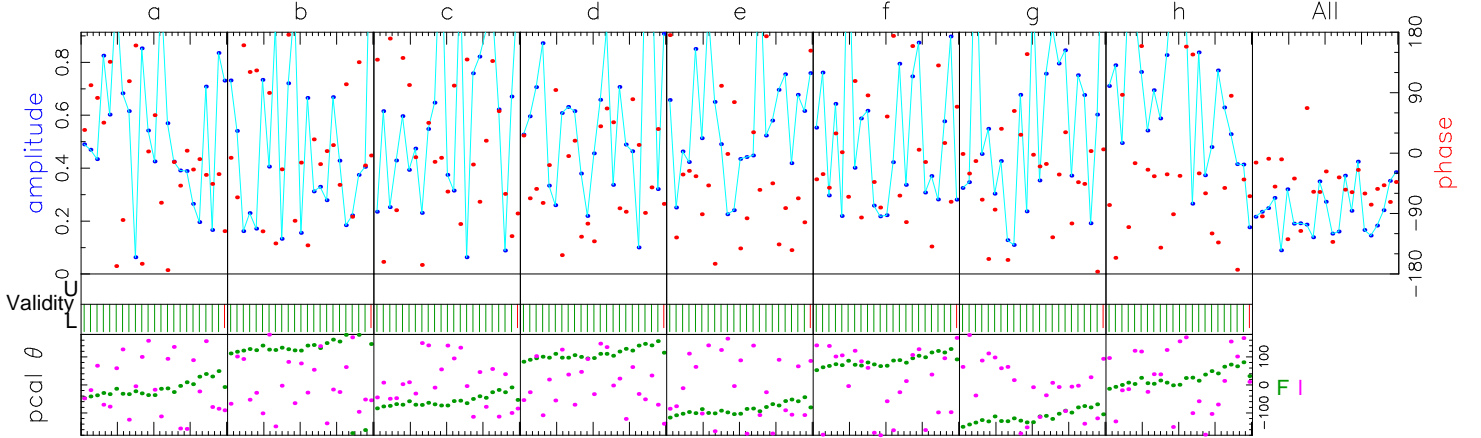


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	88012.00	88044.00	88076.00	88108.00	88140.00	88172.00	88204.00	88236.00	88268.00	88300.00	88332.00	88364.00	88396.00	88428.00	88460.00	88492.00	88524.00	88556.00	88588.00	88620.00	88652.00	88684.00	88716.00	88748.00	88780.00	88812.00	88844.00	88876.00	88908.00	88940.00	88972.00	89004.00	89036.00	89068.00	89100.00	89132.00	89164.00	89196.00	89228.00	89260.00	89292.00	89324.00	89356.00	89388.00	89420.00	89452.00	89484.00	89516.00	89548.00	89580.00	89612.00	89644.00	89676.00	89708.00	89740.00	89772.00	89804.00	89836.00	89868.00	89900.00	89932.00	89964.00	89996.00	90028.00	90060.00	90092.00	90124.00	90156.00	90188.00	90220.00	90252.00	90284.00	90316.00	90348.00	90380.00	90412.00	90444.00	90476.00	90508.00	90540.00	90572.00	90604.00	90636.00	90668.00	90700.00	90732.00	90764.00	90796.00	90828.00	90860.00	90892.00	90924.00	90956.00	90988.00	91020.00	91052.00	91084.00	91116.00	91148.00	91180.00	91212.00	91244.00	91276.00	91308.00	91340.00	91372.00	91404.00	91436.00	91468.00	91500.00	91532.00	91564.00	91596.00	91628.00	91660.00	91692.00	91724.00	91756.00	91788.00	91820.00	91852.00	91884.00	91916.00	91948.00	91980.00	92012.00	92044.00	92076.00	92108.00	92140.00	92172.00	92204.00	92236.00	92268.00	92300.00	92332.00	92364.00	92396.00	92428.00	92460.00	92492.00	92524.00	92556.00	92588.00	92620.00	92652.00	92684.00	92716.00	92748.00	92780.00	92812.00	92844.00	92876.00	92908.00	92940.00	92972.00	93004.00	93036.00	93068.00	93100.00	93132.00	93164.00	93196.00	93228.00	93260.00	93292.00	93324.00	93356.00	93388.00	93420.00	93452.00	93484.00	93516.00	93548.00	93580.00	93612.00	93644.00	93676.00	93708.00	93740.00	93772.00	93804.00	93836.00	93868.00	93900.00	93932.00	93964.00	93996.00	94028.00	94060.00	94092.00	94124.00	94156.00	94188.00	94220.00	94252.00	94284.00	94316.00	94348.00	94380.00	94412.00	94444.00	94476.00	94508.00	94540.00	94572.00	94604.00	94636.00	94668.00	94700.00	94732.00	94764.00	94796.00	94828.00	94860.00	94892.00	94924.00	94956.00	94988.00	95020.00	95052.00	95084.00	95116.00	95148.00	95180.00	95212.00	95244.00	95276.00	95308.00	95340.00	95372.00	95404.00	95436.00	95468.00	95500.00	95532.00	95564.00	95596.00	95628.00	95660.00	95692.00	95724.00	95756.00	95788.00	95820.00	95852.00	95884.00	95916.00	95948.00	95980.00	96012.00	96044.00	96076.00	96108.00	96140.00	96172.00	96204.00	96236.00	96268.00	96300.00	96332.00	96364.00	96396.00	96428.00	96460.00	96492.00	96524.00	96556.00	96588.00	96620.00	96652.00	96684.00	96716.00	96748.00	96780.00	96812.00	96844.00	96876.00	96908.00	96940.00	96972.00	97004.00	97036.00	97068.00	97100.00	97132.00	97164.00	97196.00	97228.00	97260.00	97292.00	97324.00	97356.00	97388.00	97420.00	97452.00	97484.00	97516.00	97548.00	97580.00	97612.00	97644.00	97676.00	97708.00	97740.00	97772.00	97804.00	97836.00	97868.00	97900.00	97932.00	97964.00	97996.00	98028.00	98060.00	98092.00	98124.00	98156.00	98188.00	98220.00	98252.00	98284.00	98316.00	98348.00	98380.00	98412.00	98444.00	98476.00	98508.00	98540.00	98572.00	98604.00	98636.00	98668.00	98700.00	98732.00	98764.00	98796.00	98828.00	98860.00	98892.00	98924.00	98956.00	98988.00	99020.00	99052.00	99084.00	99116.00	99148.00	99180.00	99212.00	99244.00	99276.00	99308.00	99340.00	99372.00	99404.00	99436.00	99468.00	99500.00	99532.00	99564.00	99596.00	99628.00	99660.00	99692.00	99724.00	99756.00	99788.00	99820.00	99852.00	99884.00	99916.00	99948.00	99980.00	100012.00	100044.00	100076.00	100108.00	100140.00	100172.00	100204.00	100236.00	100268.00	100300.00	100332.00	100364.00	100396.00	100428.00	100460.00	100492.00	100524.00	100556.00	100588.00	100620.00	100652.00	100684.00	100716.00	100748.00	100780.00	100812.00	100844.00	100876.00	100908.00	100940.00	100972.00	101004.00	101036.00	101068.00	101100.00	101132.00	101164.00	101196.00	101228.00	101260.00	101292.00	101324.00	101356.00	101388.00	101420.00	101452.00	101484.00	101516.00	101548.00	101580.00	101612.00	101644.00	101676.00	101708.00	101740.00	101772.00	101804.00	101836.00	101868.00	101900.00	101932.00	101964.00	101996.00	102028.00	102060.00	102092.00	102124.00	102156.00	102188.00	102220.00	102252.00	102284.00	102316.00	102348.00	102380.00	102412.00	102444.00	102476.00	102508.00	102540.00	102572.00	102604.00	102636.00	102668.00	102700.00	102732.00	102764.00	102796.00	102828.00	102860.00	102892.00	102924.00	102956.00	102988.00	103020.00	103052.00	103084.00	103116.00	103148.00	103180.00	103212.00	103244.00	103276.00	103308.00	103340.00	103372.00	103404.00	103436.00	103468.00	103500.00	103532.00	103564.00	103596.00	103628.00	103660.00	103692.00	103724.00	103756.00	103788.00	103820.00	103852.00	103884.00	103916.00	103948.00	103980.00	104012.00	104044.00	104076.00	104108.00	104140.00	104172.00	104204.00	104236.00	104268.00	104300.00	104332.00	104364.00	104396.00	104428.00	104460.00	104492.00	104524.00	104556.00	104588.00	104620.00	104652.00	104684.00	104716.00	104748.00	104780.00	104812.00	104844.00	104876.00	104908.00	104940.00	104972.00	105004.00	105036.00	105068.00	105100.00	105132.00	105164.00	105196.00	105228.00	105260.00	105292.00	105324.00	105356.00	105388.00	105420.00	105452.00	105484.00	105516.00	105548.00	105580.00	105612.00	105644.00	105676.00	105708.00	105740.00	105772.00	105804.00	105836.00	105868.00	105900.00	105932.00	105964.00	105996.00	106028.00	106060.00	106092.00	106124.00	106156.00	106188.00	106220.00	106252.00	106284.00	106316.00	106348.00	106380.00	106412.00	106444.00	106476.00	106508.00	106540.00	106572.00	106604.00	106636.00	106668.00	106700.00	106732.00	106764.00	106796.00	106828.00	106860.00	106892.00	106924.00	106956.00	106988.00	107020.00	107052.00	107084.00	107116.00	107148.00	107180.00	107212.00	107244.00	107276.00	107308.00	107340.00	107372.00	107404.00	107436.00	107468.00	107500.00	107532.00	107564.00	107596.00	107628.00	107660.00	107692.00	107724.00	107756.00	107788.00	107820.00	107852.00	107884.00	107916.00	107948.00	107980.00	108012.00	108044.00	108076.00	108108.00	108140.00	108172.00	108204.00	108236.00	108268.00	108300.00	108332.00	108364.00	108396.00	108428.00	108460.00	108492.00	108524.00	108556.00	108588.00	108620.00	108652.00	108684.00	108716.00	108748.00	108780.00	108812.00	108844.00	108876.00	108908.00	108940.00	108972.00	109004.00	109036.00	109068.00	109100.00	109132.00	109164.00	109196.00	109228.00	109260.00	109292.00	109324.00	109356.00	109388.00	109420.00	109452.00	109484.00	109516.00	109548.00	109580.00	109612.00	109644.00	109676.00	109708.00	109740.00	109772.00	109804.00	109836.00	109868.00	109900.00	109932.00	109964.00	109996.00	110028.00	110060.00	110092.00	110124.00	110156.00	110188.00	110220.00	110252.00	110284.00	110316.00	110348.00	110380.00	110412.00	110444.00	110476.00	110508.00	110540.00	110572.00	110604.00	110636.00	110668.00	110700.00	110732.00	110764.00	110796.00	110828.00	110860.00	110892.00	110924.00	110956.00	110988.00	111020.00	111052.00	111084.00	111116.00	111148.00	111180.00	111212.00	111244.00	111276.00	111308.00	111340.00	111372.00	111404.00	111436.00	111468.00	111500.00	111532.00	111564.00	111596.00	111628.00	111660.00	111692.00	111724.00	111756.00	111788.00	111820.00	111852.00	111884.00	111916.00	111948.00	111980.00	112012.00	112044.00	112076.00	112108.00	112140.00	112172.00	112204.00	112236.00	112268.00	112300.00	112332.00	112364.00	112396.00	112428.00	112460.00	112492.00	112524.00	112556.00	112588.00	112620.00	112652.00	112684.00	112716.00	112
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----



Fringe quality 0  
SNR 5.8  
Int time 239.895  
Amp 0.305  
Phase -593.2  
PFD 3.1e-01  
Delays (us)  
SBD 0.091227  
MBD -0.001524  
Fringe rate (Hz)  
-0.998297  
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  
2017:215:022642  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"

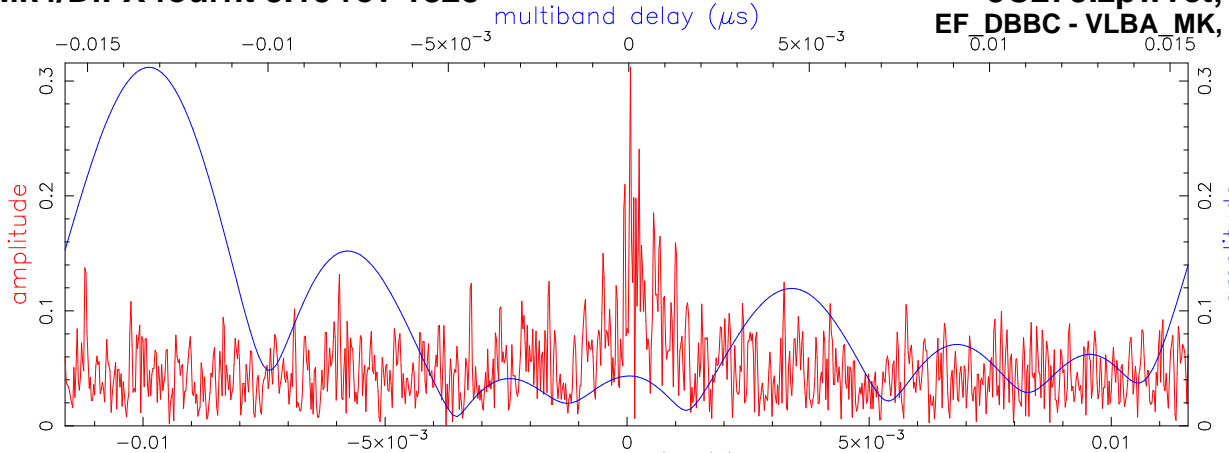
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



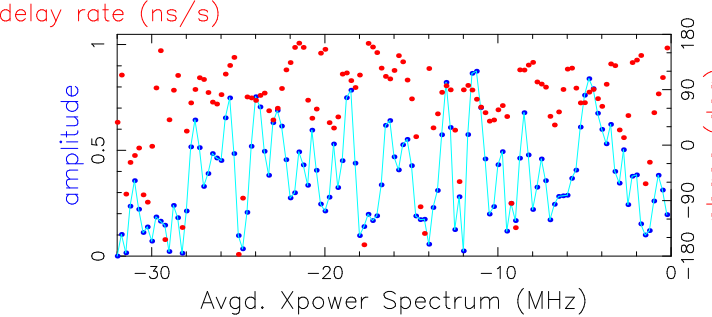
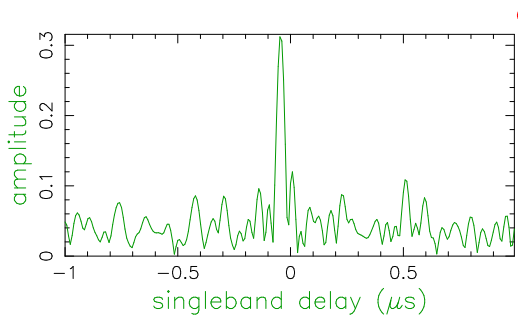
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-36.1	-59.9	-43.1	-45.0	-87.2	-39.0	-23.5	-82.4	Phase	-53.2
	0.1	0.2	0.2	0.4	0.4	0.3	0.5	0.4	Ampl.	0.3
	203.4	157.9	190.2	142.2	43.9	19.8	139.9	140.0	Sbd box	140.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.14012217449E+04		Apriori delay (usec)		-1.14013139711E+04		Resid mbdelay (usec)		-1.52378E-03	+/- 3.7E-04
Sband delay (usec)	-1.14012227446E+04		Apriori clock (usec)		3.2572906E+01		Resid sbdelay (usec)		9.12265E-02	+/- 3.0E-03
Phase delay (usec)	-1.14013139728E+04		Apriori clockrate (us/s)		7.6213009E-08		Resid phdelay (usec)		-1.71425E-06	+/- 6.4E-07
Delay rate (us/s)	-1.68185405283E+00		Apriori rate (us/s)		-1.68184246359E+00		Resid rate (us/s)		-1.15892E-05	+/- 4.6E-09
Total phase (deg)	-763.3		Apriori accel (us/s/s)		6.15133901048E-05		Resid phase (deg)		-593.2	+/- 19.7
	RMS	Theor.	Amplitude	0.305 +/- 0.052	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
ph/seg (deg)	42.1	47.2	Search (1024X32)	0.186	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled		mb window (us)	-0.016	0.016
amp/seg (%)	51.1	82.4	Interp.	0.000	Bits/sample: 2x2	Data rate (Mb/s): 1024		dr window (ns/s)	-0.012	0.012
ph/frq (deg)	24.5	27.8	Inc. seg. avg.	0.281	Sample rate (MSamp/s): 64	nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00
amp/frq (%)	44.7	48.6	Inc. frq. avg.	0.295	Data rate (Mb/s): 1024					

F: az 262.0 el 9.0 pa 39.1 I: az 128.2 el 43.2 pa -39.4 u,v (fr/asec) 9679.635 1818.551 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FI..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/FI.W.88.zpwvct



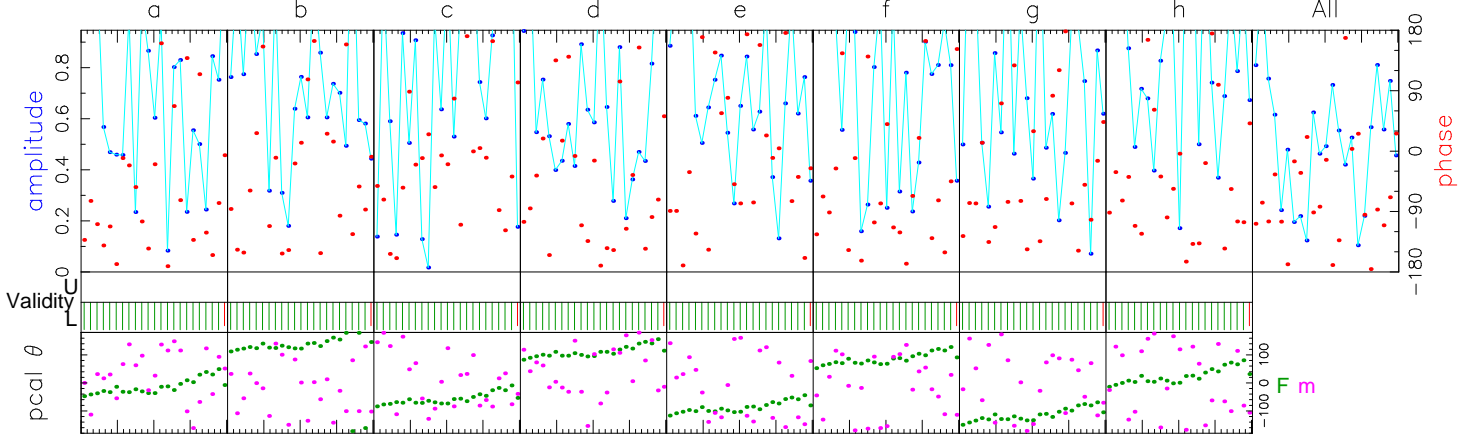


Fringe quality 9  
SNR 9.5  
Int time 239.895  
Amp 0.316  
Phase 88.4  
PFD 3.3e-13  
Delays (us)  
SBD -0.043882  
MBD -0.013282  
Fringe rate (Hz) 0.005578  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



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 6.697s  
+2° 03' 8.598"

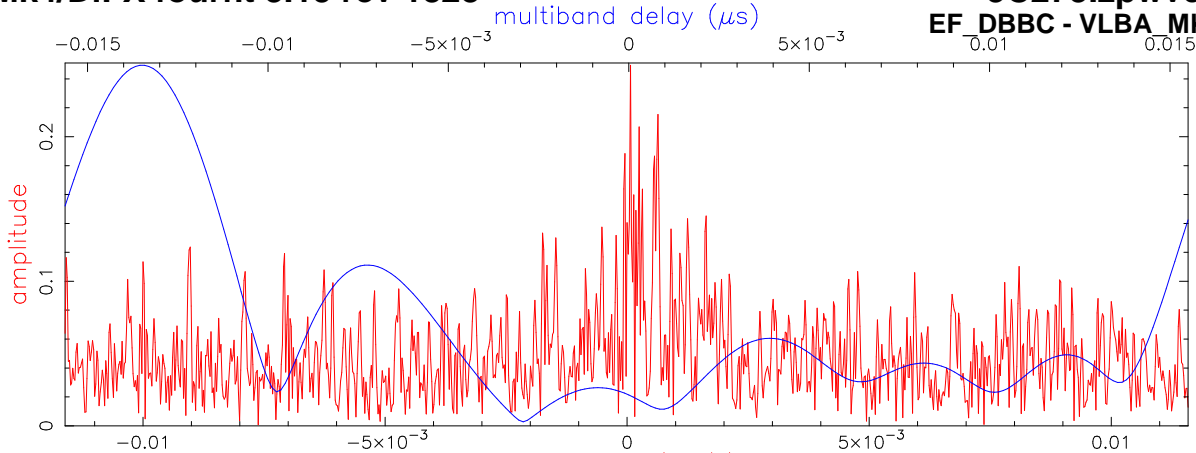
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



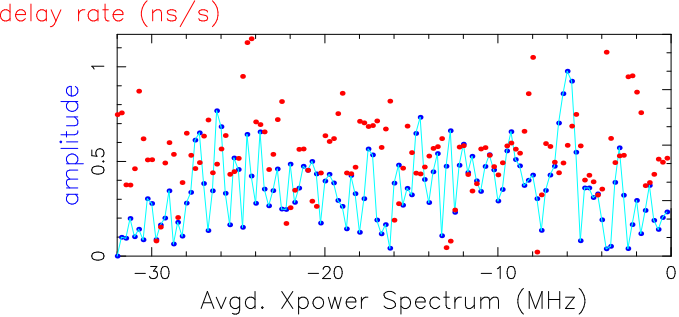
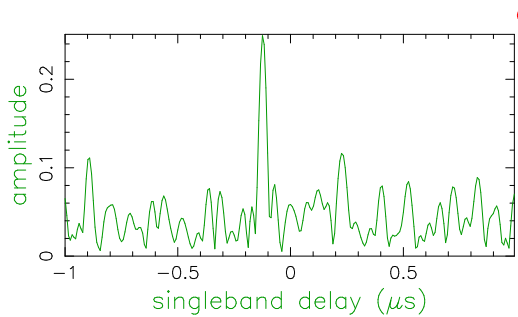
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	Phase	-91.6
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	0.3
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	123.4
F:m	0:0	0:0	0:0	0:0	0:0	0:0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

ph/seg (deg) 65.7 29.1 Theor. Amplitude 0.316 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 102.5 50.7 Search (1024X32) 0.303 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 19.2 17.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 31.2 29.9 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  
 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 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fm..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fm.W.89.zpwvct simultaneous interpolator



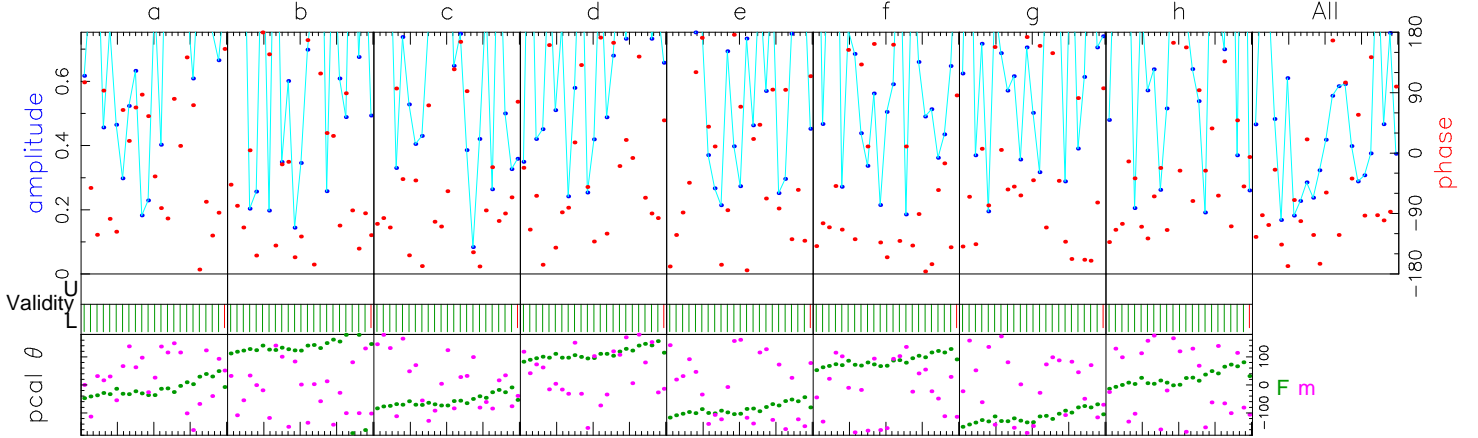


Fringe quality 9  
SNR 7.5  
Int time 239.895  
Amp 0.251  
Phase 611.9  
PFD 4.5e-06  
Delays (us)  
SBD -0.122896  
MBD -0.013514  
Fringe rate (Hz) 0.005563  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
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"



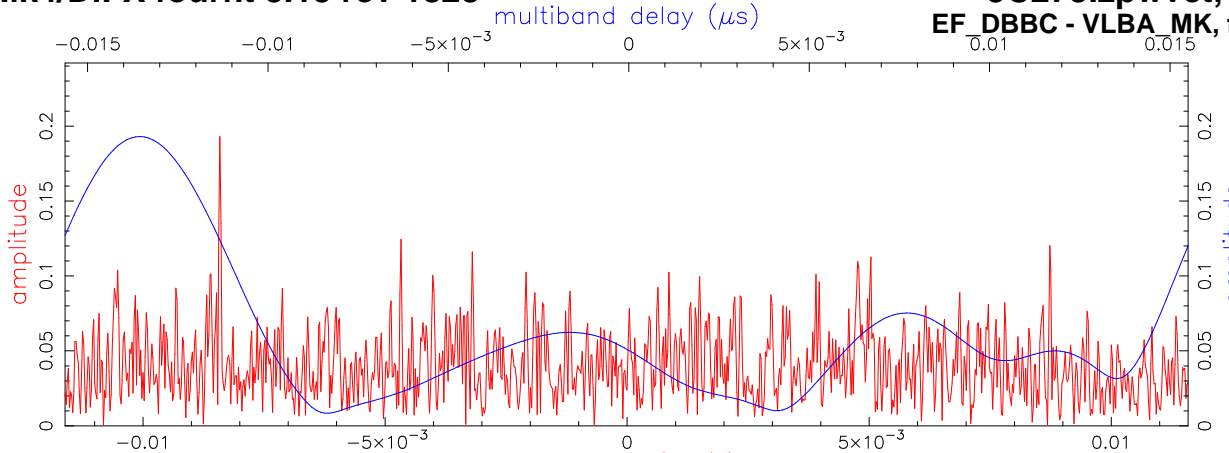
Avgd. Xpower Spectrum (MHz)

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

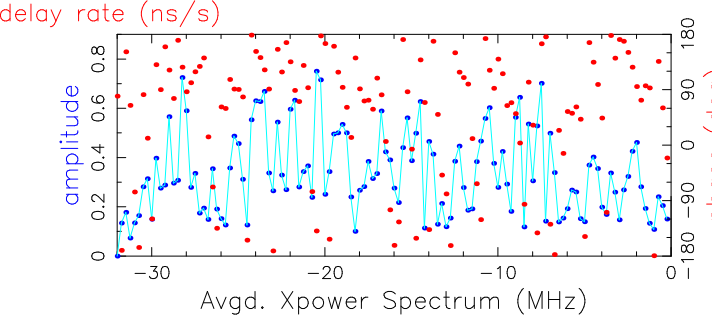
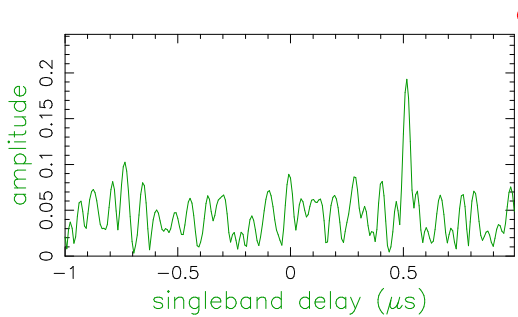


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	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		sb window (us)	-1.000	1.000
amp/seg (%)	132.4	63.8	Search (1024X32) 0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	18.5	21.6	Inc. seg. avg. 0.398	Bits/sample: 2x2		Data rate (Mb/s): 1024		dr window (ns/s)	-0.012	0.012
amp/frq (%)	32.4	37.6	Inc. frq. avg. 0.243	Sample rate (MSamp/s): 64		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00

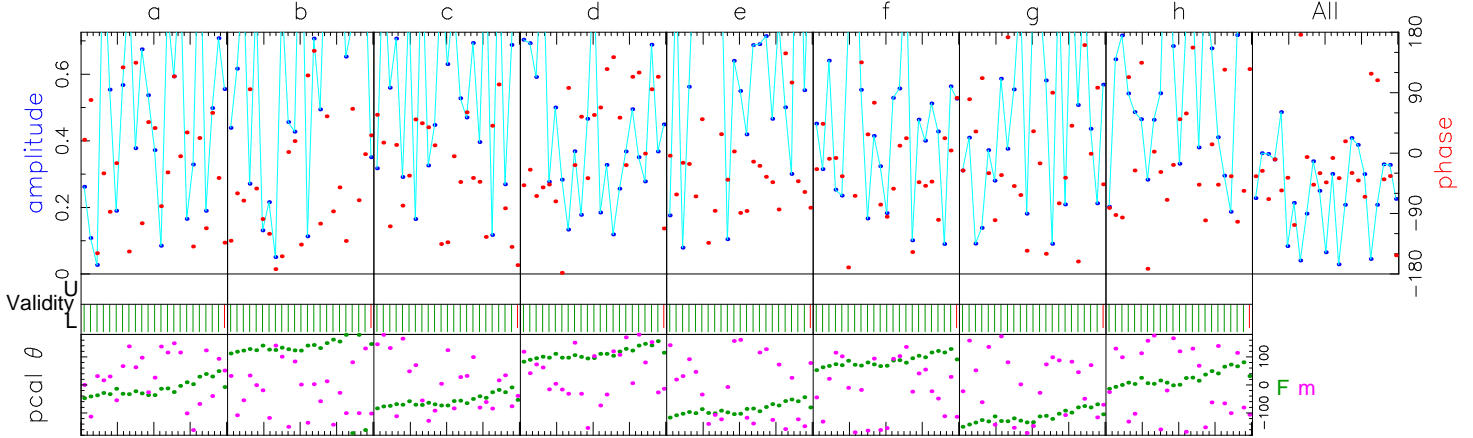
F: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fm.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fm.W.90.zpwvct



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"



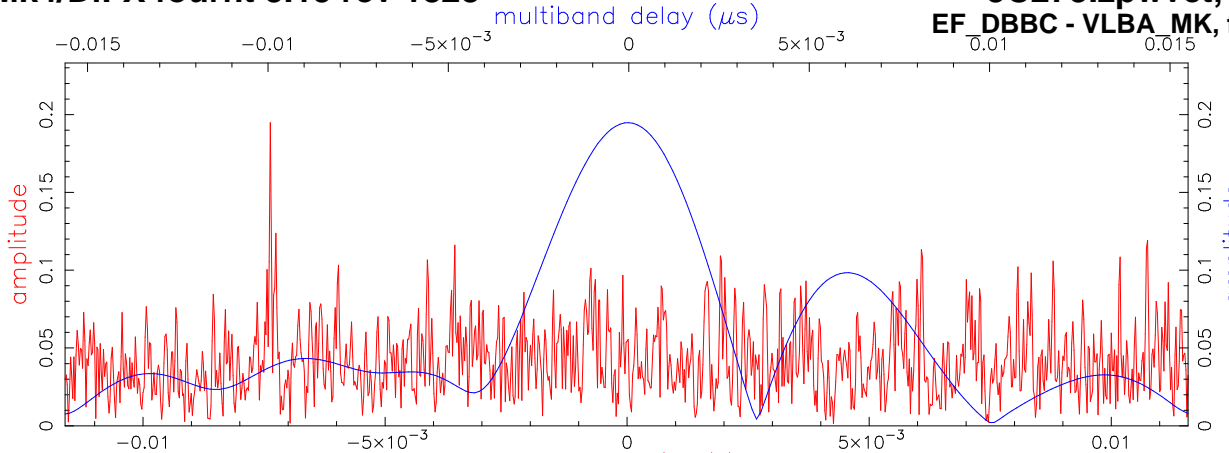
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



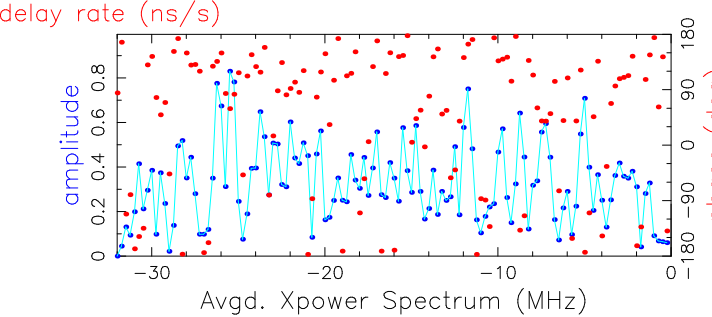
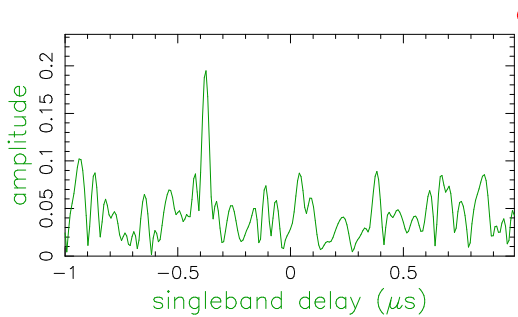
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.4	-70.1	-34.9	-2.5	-45.0	-21.7	-33.7	-55.2	Phase	-38.3
	0.2	0.3	0.2	0.2	0.5	0.3	0.2	0.2	Ampl.	0.2
	16.8	63.4	153.8	165.9	195.3	253.6	10.5	10.1	Sbd box	194.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	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	ManI 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

ph/seg (deg)	63.3	Theor.	47.5	Amplitude	0.242 +/- 0.042	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	71.6	Search (1024X32)	0.184	Apriori clock (usec)	0.184	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	23.8	Interp.	0.000	Apriori clockrate (us/s)	3.8340011E-08	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	46.6	Inc. seg. avg.	0.232	Apriori rate (us/s)	-2.41986886544E+00	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.229	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

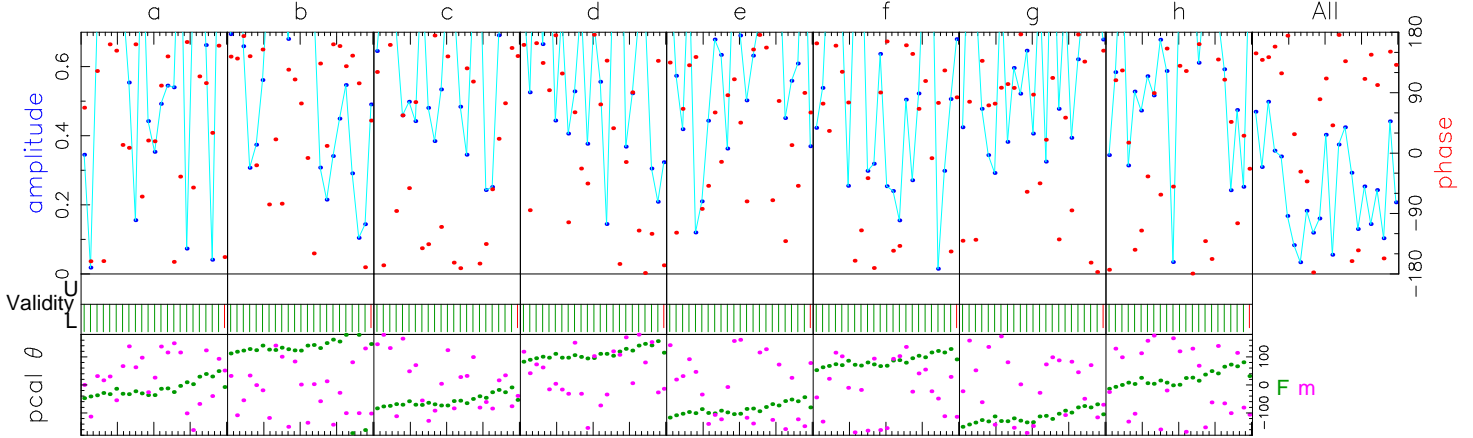


Fringe quality 0  
 SNR 5.9  
 Int time 239.895  
 Amp 0.233  
 Phase 2303.2  
 PFD 2.3e-01  
 Delays (us)  
 SBD -0.377349  
 MBD 0.000008  
 Fringe rate (Hz)  
 -0.634491  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044000.00  
 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"



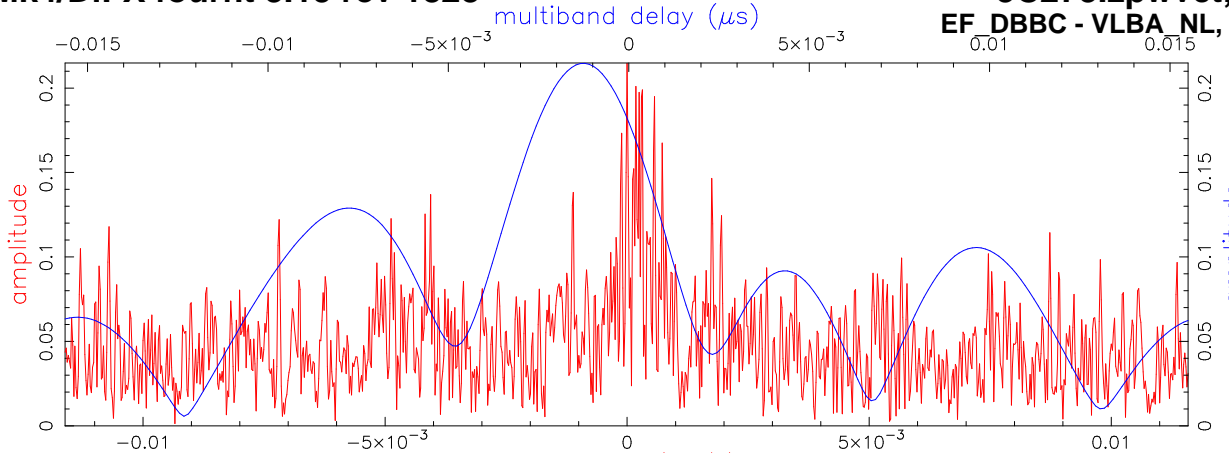
Avgd. Xpower Spectrum (MHz)

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

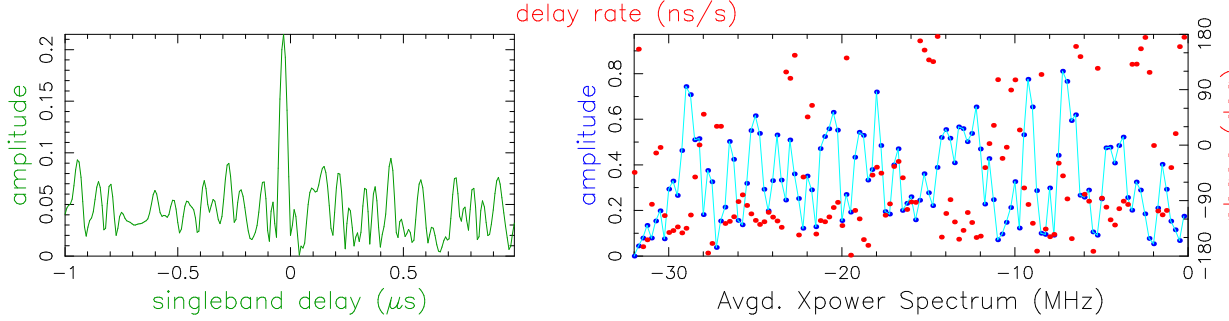


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	143.2	143.2
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.2	0.2
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.3	0.3
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Ampl.	0.2
F:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	80.7
F	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC freqs	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase	
									ManI PC	
									PC amp	
									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	

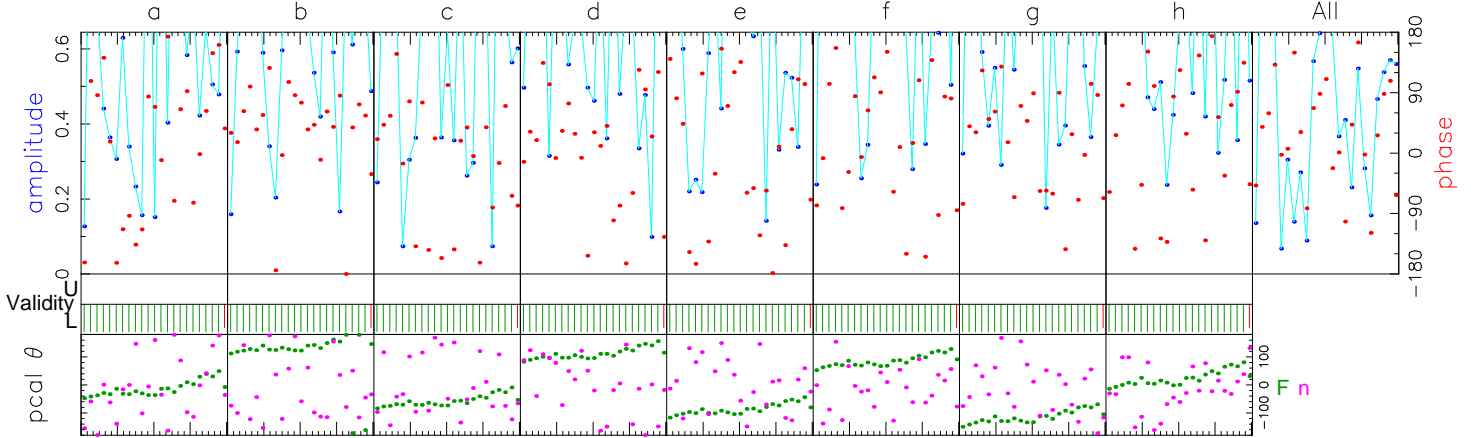
ph/seg (deg) 68.7 46.7 Search (1024X32) 0.189 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 75.9 81.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 25.3 27.5 Inc. seg. avg. 0.225 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 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  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fm.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fm.W.92.zpwvct simultaneous interpolator



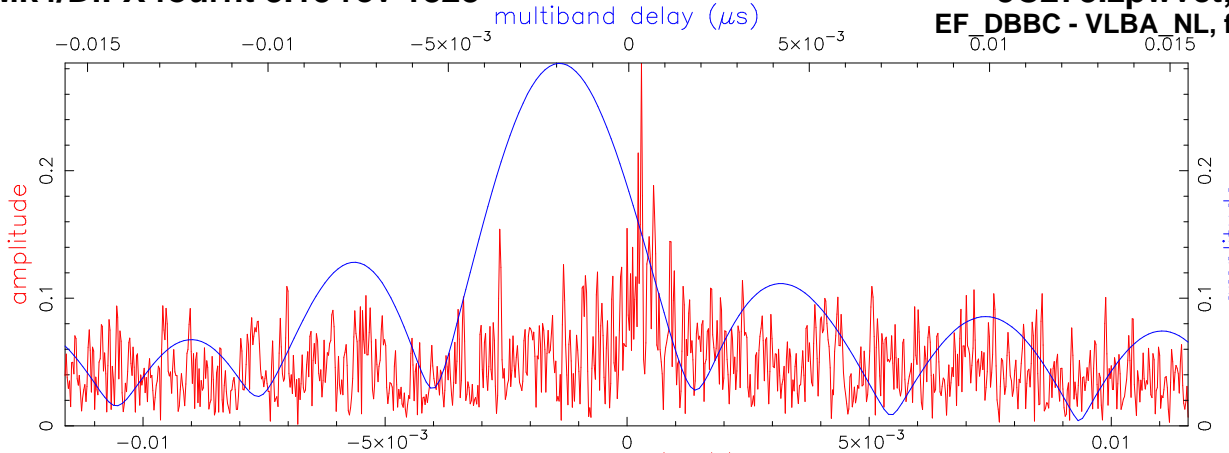
Fringe quality 0  
SNR 6.4  
Int time 239.895  
Amp 0.215  
Phase 239.2  
PFD 8.6e-03  
Delays (us)  
SBD -0.032066  
MBD -0.001276  
Fringe rate (Hz) 0.000059  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022647  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"



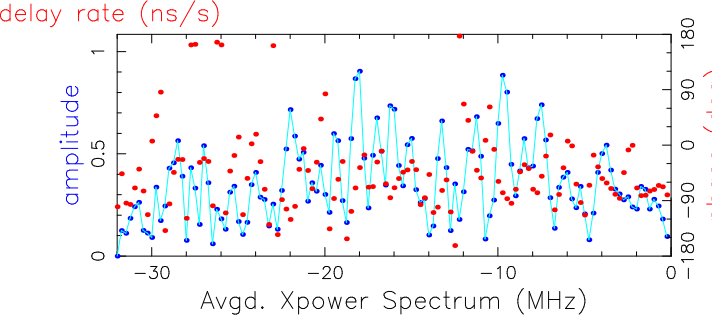
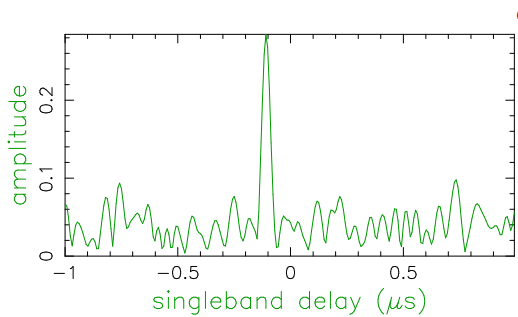
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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					
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs					
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs					
F:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
F:n	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					
n	1000	1000	1000	1000	1000	1000	1000	1000						
F	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)	-1.21723944985E+04								Apriori delay (usec)	-1.21723619722E+04	Resid mbdelay (usec)	-1.27631E-03	+/-	3.4E-04
Sband delay (usec)	-1.21723940382E+04								Apriori clock (usec)	2.2927135E+01	Resid sbdelay (usec)	-3.20660E-02	+/-	2.7E-03
Phase delay (usec)	-1.21723619703E+04								Apriori clockrate (us/s)	-3.2134660E-07	Resid phdelay (usec)	1.91033E-06	+/-	5.7E-07
Delay rate (us/s)	-1.36113877794E+00								Apriori rate (us/s)	-1.36113877862E+00	Resid rate (us/s)	6.80578E-10	+/-	4.1E-09
Total phase (deg)		136.5							Apriori accel (us/s/s)	6.52487098866E-05	Resid phase (deg)	239.2	+/-	17.8
	RMS	Theor.	Amplitude	0.215 +/- 0.033					Pcal mode: MANUAL, MANUAL		PC period (AP's)	5, 5		
ph/seg (deg)	82.6	42.7	Search (1024X32)	0.213					Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	159.5	74.5	Interp.	0.000					Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	37.8	25.2	Inc. seg. avg.	0.350					Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012	0.012
amp/frq (%)	60.4	44.0	Inc. frq. avg.	0.223					Data rate(Mb/s): 1024			ion window (TEC)	0.00	0.00
F: az 262.0 el 9.0 pa 39.1		n: az 149.9 el 46.2 pa -21.7		u,v (fr/asec) 7844.334 1108.798					nlags: 128		t_cohere infinite			
Control file: ../cf_1234	Input file: /Exps/c171a/gmva/1234/No0577/Fn.zpwwct	Output file: /Exps/c171a/gmva/1234/No0577/Fn.W.93.zpwwct												simultaneous interpolator

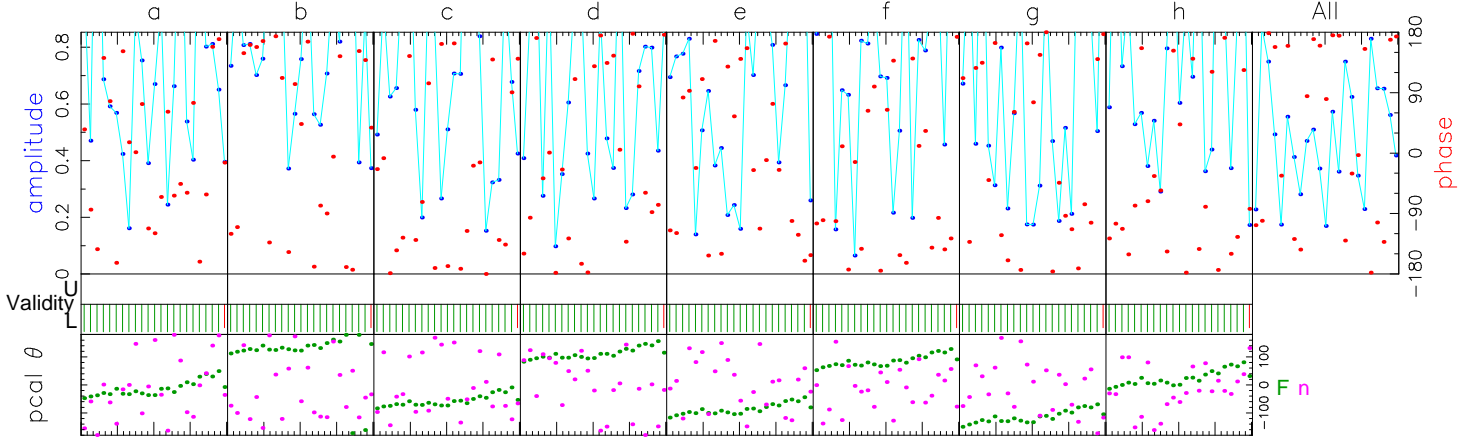


Fringe quality 9  
SNR 8.5  
Int time 239.895  
Amp 0.284  
Phase 379.3  
PFD 1.5e-09  
Delays (us)  
SBD -0.108604  
MBD -0.001912  
Fringe rate (Hz) 0.026323  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022648  
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		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-1.21724576347E+04		Apriori delay (usec)		-1.21723619722E+04		Resid mbdelay (usec)	-1.91245E-03	+/- 2.5E-04
Sband delay (usec)		-1.21724705767E+04		Apriori clock (usec)		2.2927135E+01		Resid sbdelay (usec)	-1.08604E-01	+/- 2.0E-03
Phase delay (usec)		-1.21723619774E+04		Apriori clockrate (us/s)		-3.2134660E-07		Resid phdelay (usec)	-5.18228E-06	+/- 4.3E-07
Delay rate (us/s)		-1.36113847303E+00		Apriori rate (us/s)		-1.36113877862E+00		Resid rate (us/s)	3.05587E-07	+/- 3.1E-09
Total phase (deg)			276.6	Apriori accel (us/s/s)		6.52487098866E-05		Resid phase (deg)	379.3	+/- 13.5

ph/seg (deg) 69.1 32.3  
amp/seg (%) 101.6 56.3  
ph/frq (deg) 24.9 19.0  
amp/frq (%) 40.9 33.2

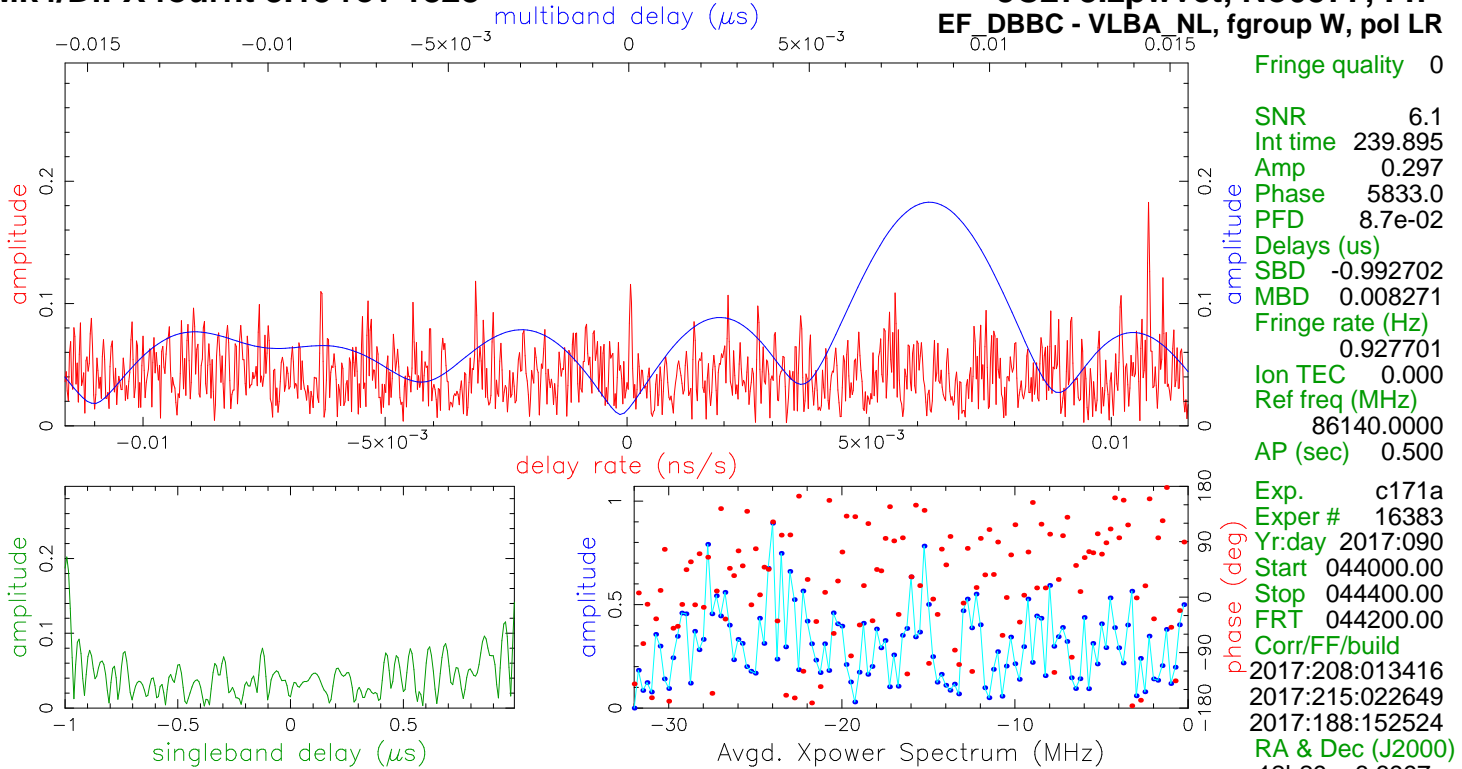
RMS Theor. Amplitude 0.284 +/- 0.033  
Search (1024X32) 0.251  
Interp. 0.000  
Inc. seg. avg. 0.424  
Inc. frq. avg. 0.282

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

F: az 262.0 el 9.0 pa 39.1 n: az 149.9 el 46.2 pa -21.7 u,v (fr/asec) 7844.334 1108.798 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fn.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Fn.W.94.zpwwct





Fringe quality 0

SNR 6.1

Int time 239.895

Amp 0.297

Phase 5833.0

PFD 8.7e-02

Delays (us)

SBD -0.992702

MBD 0.008271

Fringe rate (Hz) 0.927701

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

2017:215:022649

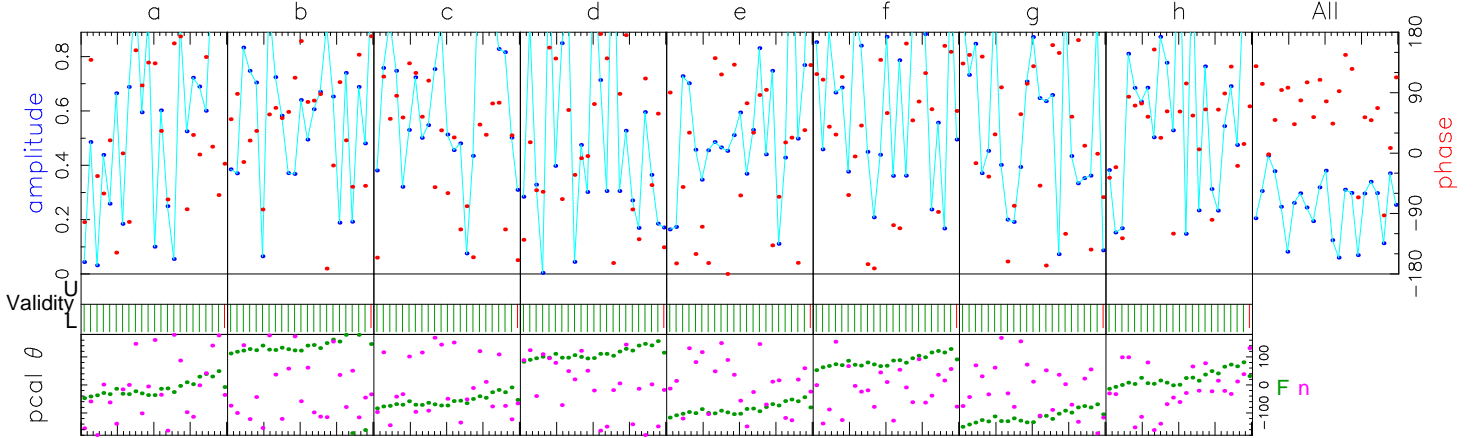
2017:188:152524

RA & Dec (J2000)

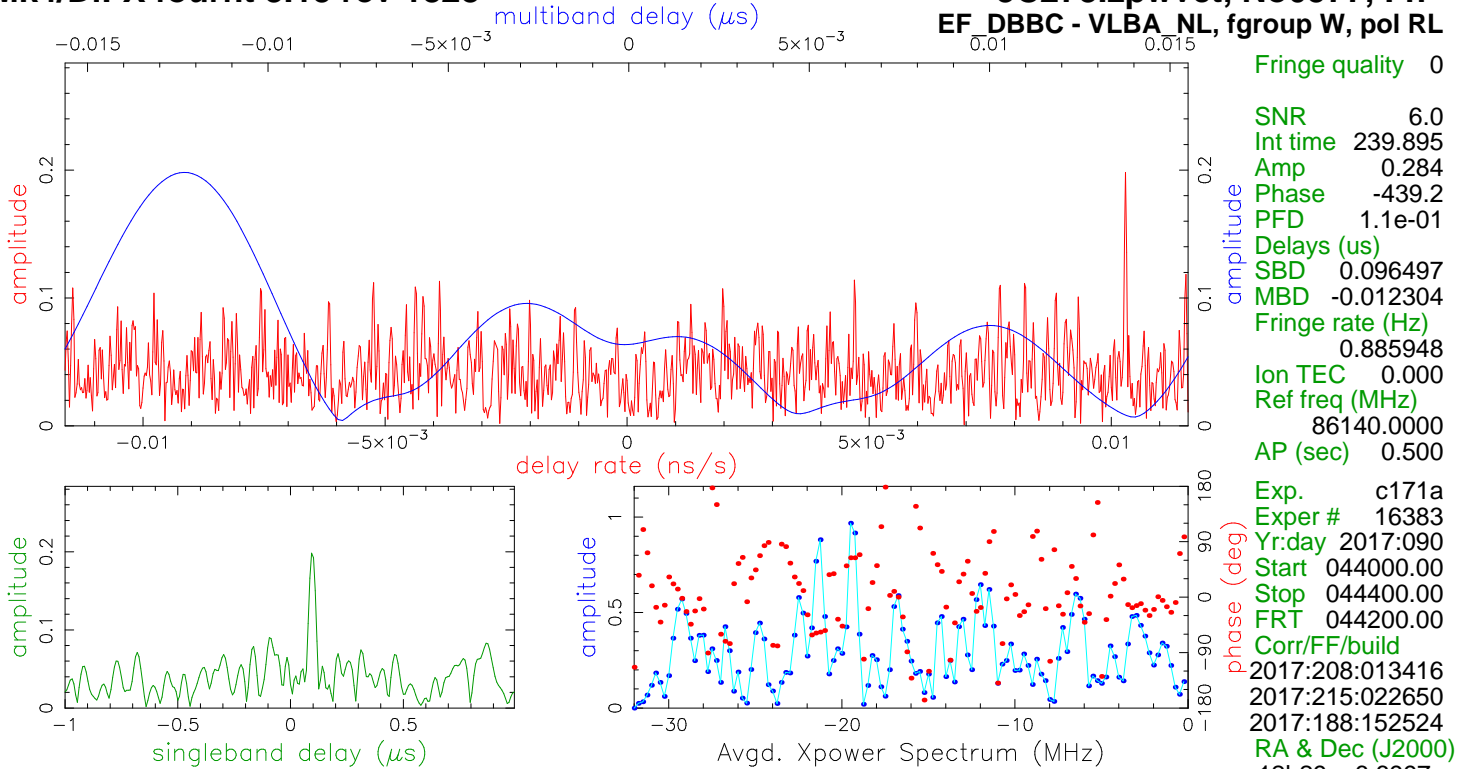
12h29m 6.6997s

+2° 03' 8.598"

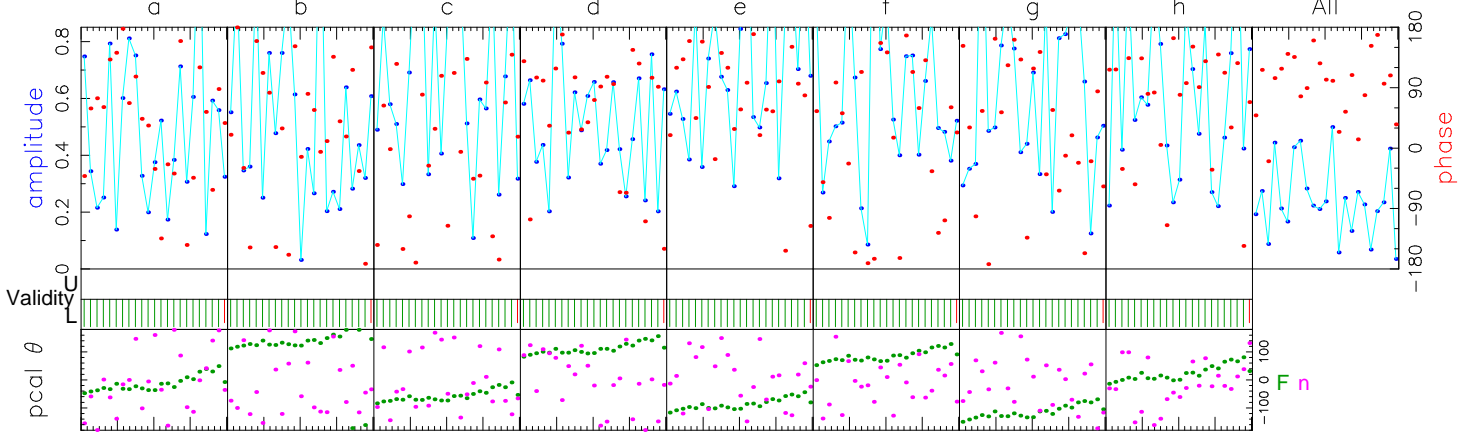
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.21733537009E+04								8.27134E-03	+/- 3.6E-04
Sband delay (usec)	-1.21733546747E+04								-9.92702E-01	+/- 2.8E-03
Phase delay (usec)	-1.21723619698E+04								2.35383E-06	+/- 6.1E-07
Delay rate (us/s)	-1.36112800893E+00								1.07697E-05	+/- 4.4E-09
Total phase (deg)			5730.3						5833.0	+/- 18.9
				Apriori delay (usec)					8.27134E-03	+/- 3.6E-04
				Apriori clock (usec)					-9.92702E-01	+/- 2.8E-03
				Apriori clockrate (us/s)					2.35383E-06	+/- 6.1E-07
				Apriori rate (us/s)					1.07697E-05	+/- 4.4E-09
				Apriori accel (us/s/s)					5833.0	+/- 18.9
ph/seg (deg)	58.3	45.4		0.199					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	57.8	79.2		0.000					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	37.8	26.8		0.286					Bits/sample: 2x2	mb window (us) -0.016 0.016
amp/frq (%)	58.1	46.7		0.260					SampCntNorm: enabled	dr window (ns/s) -0.012 0.012
									Sample rate(MSamp/s): 64	ion window (TEC) 0.00 0.00
									Data rate(Mb/s): 1024	
									nlags: 128 t_cohere infinite	
F: az 262.0 el 9.0 pa 39.1		n: az 149.9 el 46.2 pa -21.7		u,v (fr/asec) 7844.334 1108.798						simultaneous interpolator
Control file: ../cf_1234	Input file: /Exps/c171a/gmva/1234/No0577/Fn.zpwwct			Output file: /Exps/c171a/gmva/1234/No0577/Fn.W.95.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	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	87996.00	88012.00	88028.00	88044.00	88060.00	88076.00	88092.00	88108.00	88124.00	88140.00	88156.00	88172.00	88188.00	88204.00	88220.00	88236.00	88252.00	88268.00	88284.00	88300.00	88316.00	88332.00	88348.00	88364.00	88380.00	88396.00	88412.00	88428.00	88444.00	88460.00	88476.00	88492.00	88508.00	88524.00	88540.00	88556.00	88572.00	88588.00	88604.00	88620.00	88636.00	88652.00	88668.00	88684.00	88700.00	88716.00	88732.00	88748.00	88764.00	88780.00	88796.00	88812.00	88828.00	88844.00	88860.00	88876.00	88892.00	88908.00	88924.00	88940.00	88956.00	88972.00	88988.00	89004.00	89020.00	89036.00	89052.00	89068.00	89084.00	89100.00	89116.00	89132.00	89148.00	89164.00	89180.00	89196.00	89212.00	89228.00	89244.00	89260.00	89276.00	89292.00	89308.00	89324.00	89340.00	89356.00	89372.00	89388.00	89404.00	89420.00	89436.00	89452.00	89468.00	89484.00	89500.00	89516.00	89532.00	89548.00	89564.00	89580.00	89596.00	89612.00	89628.00	89644.00	89660.00	89676.00	89692.00	89708.00	89724.00	89740.00	89756.00	89772.00	89788.00	89804.00	89820.00	89836.00	89852.00	89868.00	89884.00	89900.00	89916.00	89932.00	89948.00	89964.00	89980.00	89996.00	90012.00	90028.00	90044.00	90060.00	90076.00	90092.00	90108.00	90124.00	90140.00	90156.00	90172.00	90188.00	90204.00	90220.00	90236.00	90252.00	90268.00	90284.00	90300.00	90316.00	90332.00	90348.00	90364.00	90380.00	90396.00	90412.00	90428.00	90444.00	90460.00	90476.00	90492.00	90508.00	90524.00	90540.00	90556.00	90572.00	90588.00	90604.00	90620.00	90636.00	90652.00	90668.00	90684.00	90700.00	90716.00	90732.00	90748.00	90764.00	90780.00	90796.00	90812.00	90828.00	90844.00	90860.00	90876.00	90892.00	90908.00	90924.00	90940.00	90956.00	90972.00	90988.00	90996.00	91012.00	91028.00	91044.00	91060.00	91076.00	91092.00	91108.00	91124.00	91140.00	91156.00	91172.00	91188.00	91204.00	91220.00	91236.00	91252.00	91268.00	91284.00	91300.00	91316.00	91332.00	91348.00	91364.00	91380.00	91396.00	91412.00	91428.00	91444.00	91460.00	91476.00	91492.00	91508.00	91524.00	91540.00	91556.00	91572.00	91588.00	91604.00	91620.00	91636.00	91652.00	91668.00	91684.00	91700.00	91716.00	91732.00	91748.00	91764.00	91780.00	91796.00	91812.00	91828.00	91844.00	91860.00	91876.00	91892.00	91908.00	91924.00	91940.00	91956.00	91972.00	91988.00	91996.00	92012.00	92028.00	92044.00	92060.00	92076.00	92092.00	92108.00	92124.00	92140.00	92156.00	92172.00	92188.00	92204.00	92220.00	92236.00	92252.00	92268.00	92284.00	92300.00	92316.00	92332.00	92348.00	92364.00	92380.00	92396.00	92412.00	92428.00	92444.00	92460.00	92476.00	92492.00	92508.00	92524.00	92540.00	92556.00	92572.00	92588.00	92604.00	92620.00	92636.00	92652.00	92668.00	92684.00	92700.00	92716.00	92732.00	92748.00	92764.00	92780.00	92796.00	92812.00	92828.00	92844.00	92860.00	92876.00	92892.00	92908.00	92924.00	92940.00	92956.00	92972.00	92988.00	92996.00	93012.00	93028.00	93044.00	93060.00	93076.00	93092.00	93108.00	93124.00	93140.00	93156.00	93172.00	93188.00	93204.00	93220.00	93236.00	93252.00	93268.00	93284.00	93300.00	93316.00	93332.00	93348.00	93364.00	93380.00	93396.00	93412.00	93428.00	93444.00	93460.00	93476.00	93492.00	93508.00	93524.00	93540.00	93556.00	93572.00	93588.00	93604.00	93620.00	93636.00	93652.00	93668.00	93684.00	93700.00	93716.00	93732.00	93748.00	93764.00	93780.00	93796.00	93812.00	93828.00	93844.00	93860.00	93876.00	93892.00	93908.00	93924.00	93940.00	93956.00	93972.00	93988.00	93996.00	94012.00	94028.00	94044.00	94060.00	94076.00	94092.00	94108.00	94124.00	94140.00	94156.00	94172.00	94188.00	94204.00	94220.00	94236.00	94252.00	94268.00	94284.00	94300.00	94316.00	94332.00	94348.00	94364.00	94380.00	94396.00	94412.00	94428.00	94444.00	94460.00	94476.00	94492.00	94508.00	94524.00	94540.00	94556.00	94572.00	94588.00	94604.00	94620.00	94636.00	94652.00	94668.00	94684.00	94700.00	94716.00	94732.00	94748.00	94764.00	94780.00	94796.00	94812.00	94828.00	94844.00	94860.00	94876.00	94892.00	94908.00	94924.00	94940.00	94956.00	94972.00	94988.00	94996.00	95012.00	95028.00	95044.00	95060.00	95076.00	95092.00	95108.00	95124.00	95140.00	95156.00	95172.00	95188.00	95204.00	95220.00	95236.00	95252.00	95268.00	95284.00	95300.00	95316.00	95332.00	95348.00	95364.00	95380.00	95396.00	95412.00	95428.00	95444.00	95460.00	95476.00	95492.00	95508.00	95524.00	95540.00	95556.00	95572.00	95588.00	95604.00	95620.00	95636.00	95652.00	95668.00	95684.00	95700.00	95716.00	95732.00	95748.00	95764.00	95780.00	95796.00	95812.00	95828.00	95844.00	95860.00	95876.00	95892.00	95908.00	95924.00	95940.00	95956.00	95972.00	95988.00	95996.00	96012.00	96028.00	96044.00	96060.00	96076.00	96092.00	96108.00	96124.00	96140.00	96156.00	96172.00	96188.00	96204.00	96220.00	96236.00	96252.00	96268.00	96284.00	96300.00	96316.00	96332.00	96348.00	96364.00	96380.00	96396.00	96412.00	96428.00	96444.00	96460.00	96476.00	96492.00	96508.00	96524.00	96540.00	96556.00	96572.00	96588.00	96604.00	96620.00	96636.00	96652.00	96668.00	96684.00	96700.00	96716.00	96732.00	96748.00	96764.00	96780.00	96796.00	96812.00	96828.00	96844.00	96860.00	96876.00	96892.00	96908.00	96924.00	96940.00	96956.00	96972.00	96988.00	96996.00	97012.00	97028.00	97044.00	97060.00	97076.00	97092.00	97108.00	97124.00	97140.00	97156.00	97172.00	97188.00	97204.00	97220.00	97236.00	97252.00	97268.00	97284.00	97300.00	97316.00	97332.00	97348.00	97364.00	97380.00	97396.00	97412.00	97428.00	97444.00	97460.00	97476.00	97492.00	97508.00	97524.00	97540.00	97556.00	97572.00	97588.00	97604.00	97620.00	97636.00	97652.00	97668.00	97684.00	97700.00	97716.00	97732.00	97748.00	97764.00	97780.00	97796.00	97812.00	97828.00	97844.00	97860.00	97876.00	97892.00	97908.00	97924.00	97940.00	97956.00	97972.00	97988.00	97996.00	98012.00	98028.00	98044.00	98060.00	98076.00	98092.00	98108.00	98124.00	98140.00	98156.00	98172.00	98188.00	98204.00	98220.00	98236.00	98252.00	98268.00	98284.00	98300.00	98316.00	98332.00	98348.00	98364.00	98380.00	98396.00	98412.00	98428.00	98444.00	98460.00	98476.00	98492.00	98508.00	98524.00	98540.00	98556.00	98572.00	98588.00	98604.00	98620.00	98636.00	98652.00	98668.00	98684.00	98700.00	98716.00	98732.00	98748.00	98764.00	98780.00	98796.00	98812.00	98828.00	98844.00	98860.00	98876.00	98892.00	98908.00	98924.00	98940.00	98956.00	98972.00	98988.00	98996.00	99012.00	99028.00	99044.00	99060.00	99076.00	99092.00	99108.00	99124.00	99140.00	99156.00	99172.00	99188.00	99204.00	99220.00	99236.00	99252.00	99268.00	99284.00	99300.00	99316.00	99332.00	99348.00	99364.00	99380.00	99396.00	99412.00	99428.00	99444.00	99460.00	99476.00	99492.00	99508.00	99524.00	99540.00	99556.00	99572.00	99588.00	99604.00	99620.00	99636.00	99652.00	99668.00	99684.00	99700.00	99716.00	99732.00	99748.00	99764.00	99780.00	99796.00	99812.00	99828.00	99844.00	99860.00	99876.00	99892.00	99908.00	99924.00	99940.00	99956.00	99972.00	99988.00	99996.00
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Group delay (usec)(sbd) -1.21722805263E+04 Apriori delay (usec) -1.21723619722E+04 Resid mbdelay (usec) -1.23041E-02 +/- 3.6E-04

Sband delay (usec) -1.21722654747E+04 Apriori clock (usec) 2.2927135E+01 Resid sbdelay (usec) 9.64975E-02 +/- 2.9E-03

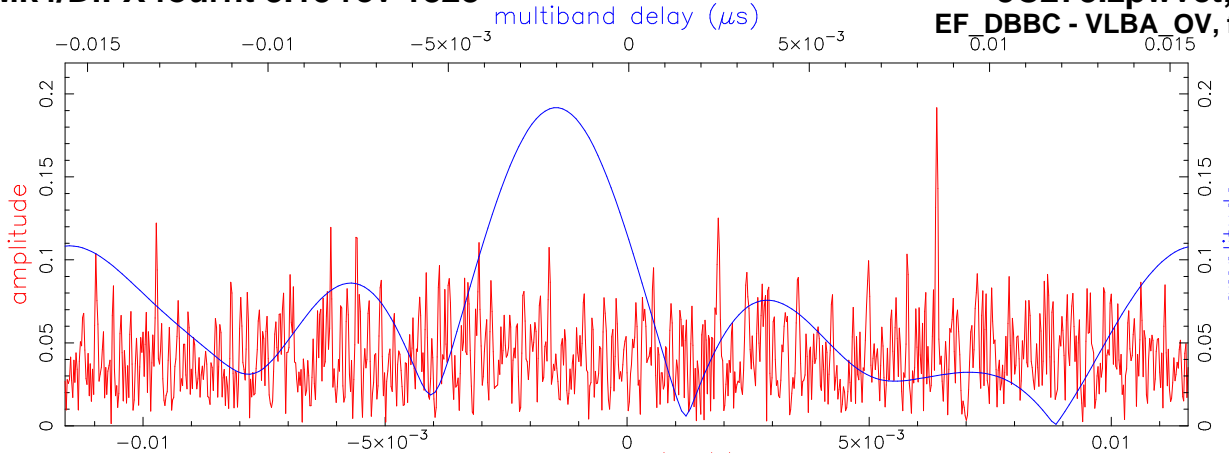
Phase delay (usec) -1.21723619689E+04 Apriori clockrate (us/s) -3.2134660E-07 Resid phdelay (usec) 3.25089E-06 +/- 6.1E-07

Delay rate (us/s) -1.36112849364E+00 Apriori rate (us/s) -1.36113877862E+00 Resid rate (us/s) 1.02850E-05 +/- 4.4E-09

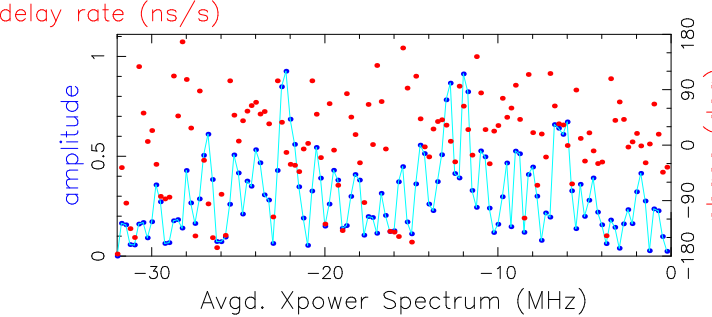
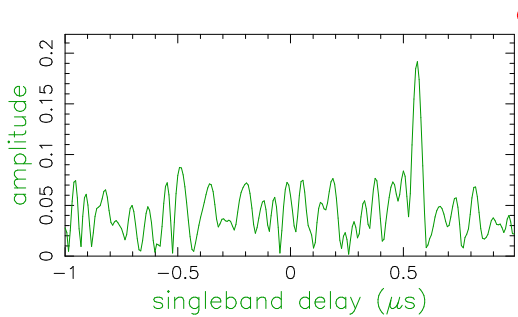
Total phase (deg) -541.9 Apriori accel (us/s/s) 6.52487098866E-05 Resid phase (deg) -439.2 +/- 19.1

RMS Theor. Amplitude 0.284 +/- 0.047 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 48.0 45.7 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

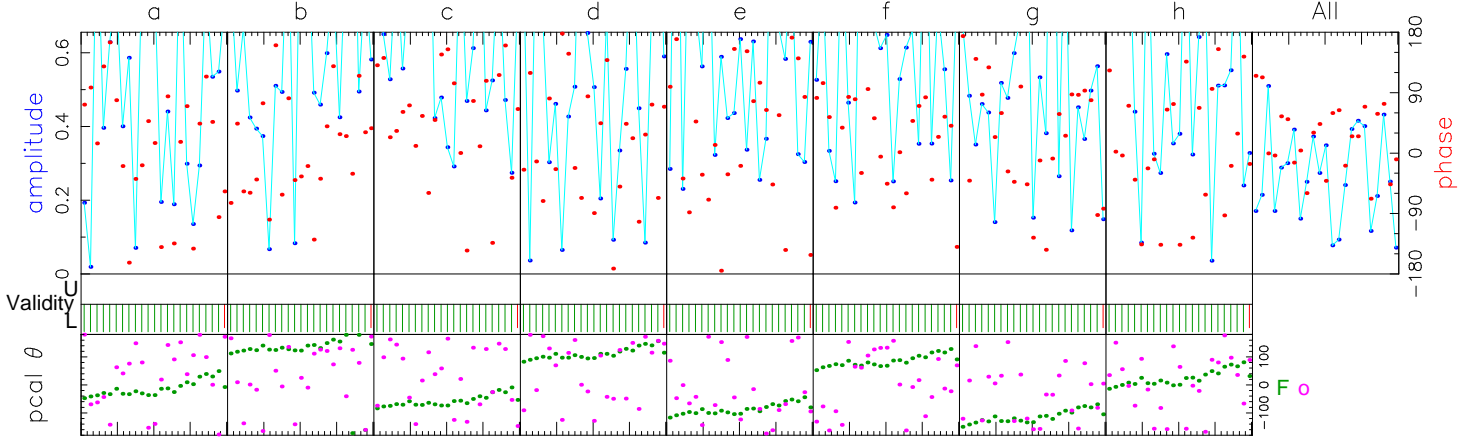


Fringe quality 0  
SNR 5.8  
Int time 239.895  
Amp 0.219  
Phase -3216.6  
PFD 4.1e-01  
Delays (us)  
SBD 0.560764  
MBD -0.002004  
Fringe rate (Hz) 0.550882  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022654  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997  
+2° 03' 8.598"



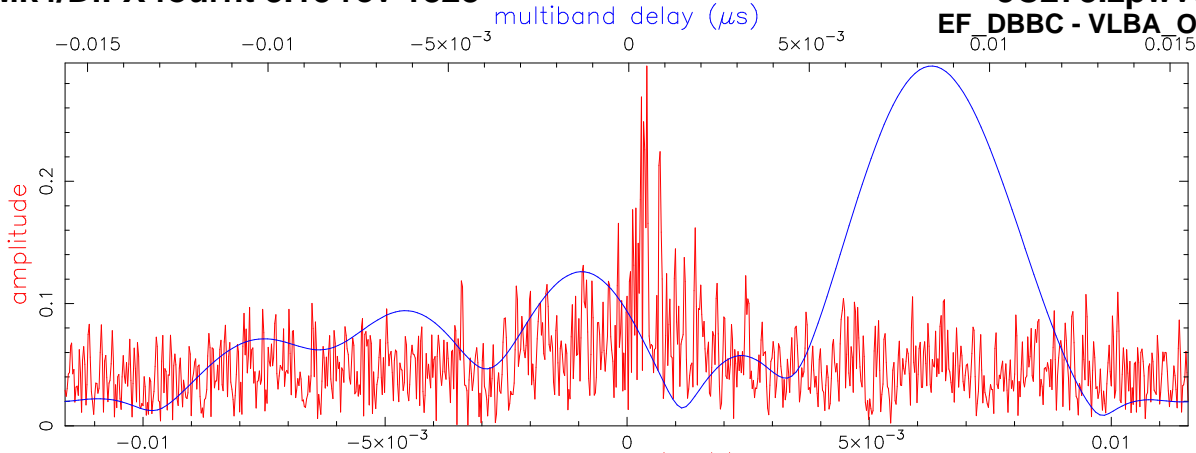
Avgd. Xpower Spectrum (MHz)

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

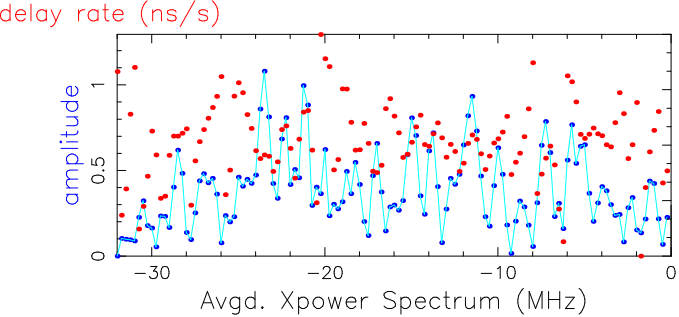
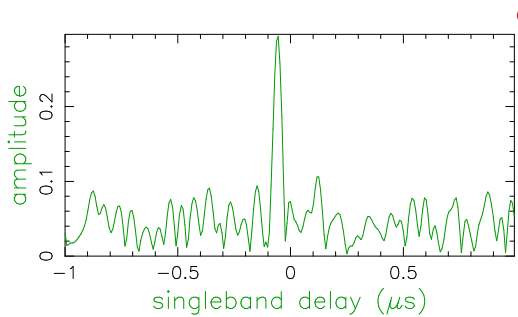


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	39.0	-2.2	58.6	-14.7	-131.7	34.9	18.8	23.8	Phase	23.4	
	0.2	0.3	0.3	0.3	0.0	0.4	0.2	0.2	Ampl.	0.2	
	64.0	200.5	91.0	59.3	196.9	199.9	171.9	13.9	Sbd box	200.8	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
F:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
F:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000			
F	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)	-8.84778989703E+03		Apriori delay (usec)		-8.84835039334E+03		Resid mbdelay (usec)		-2.00369E-03 +/- 3.8E-04		
Sband delay (usec)	-8.84778962884E+03		Apriori clock (usec)		2.6121778E+01		Resid sbdelay (usec)		5.60764E-01 +/- 3.0E-03		
Phase delay (usec)	-8.84835039259E+03		Apriori clockrate (us/s)		-2.8424398E-07		Resid phdelay (usec)		7.53059E-07 +/- 6.4E-07		
Delay rate (us/s)	-1.86552253107E+00		Apriori rate (us/s)		-1.86552892626E+00		Resid rate (us/s)		6.39520E-06 +/- 4.6E-09		
Total phase (deg)			Apriori accel (us/s/s)		4.78254333880E-05		Resid phase (deg)		-3216.6 +/- 19.9		
	RMS	Theor.	Amplitude	0.219 +/- 0.038		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	50.1	47.7	Search (1024X32)	0.188		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	74.6	83.2	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	68.0	28.1	Inc. seg. avg.	0.227		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)	45.5	49.1	Inc. frq. avg.	0.221		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 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) 10722.769 1600.927 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fo..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fo.W.100.zpwvct

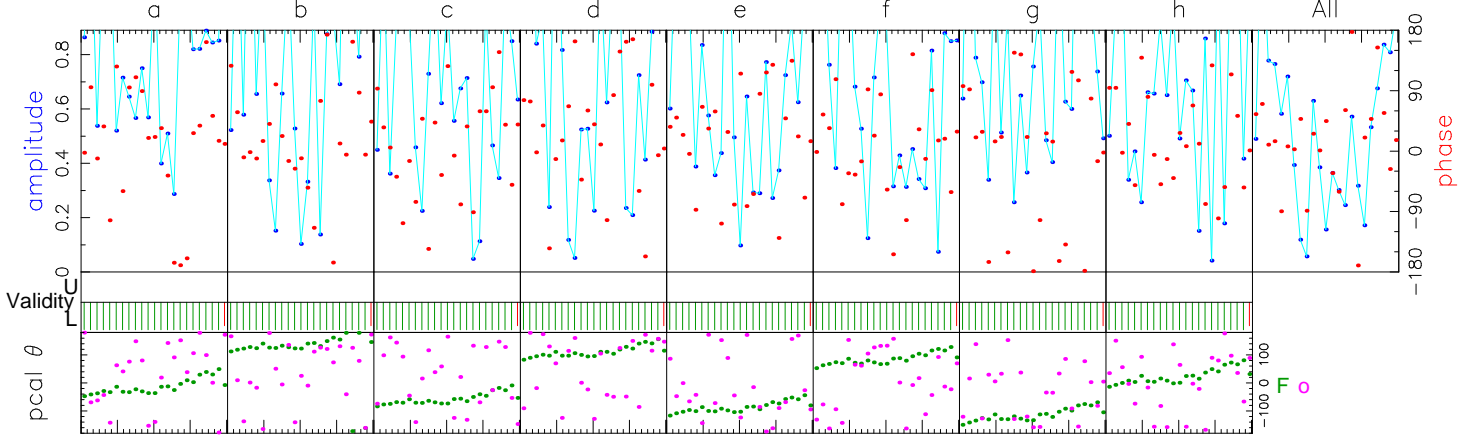


Fringe quality 9  
 SNR 8.9  
 Int time 239.895  
 Amp 0.297  
 Phase 385.9  
 PFD 6.1e-11  
 Delays (us)  
 SBD -0.057322  
 MBD 0.008385  
 Fringe rate (Hz)  
 0.034868  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500

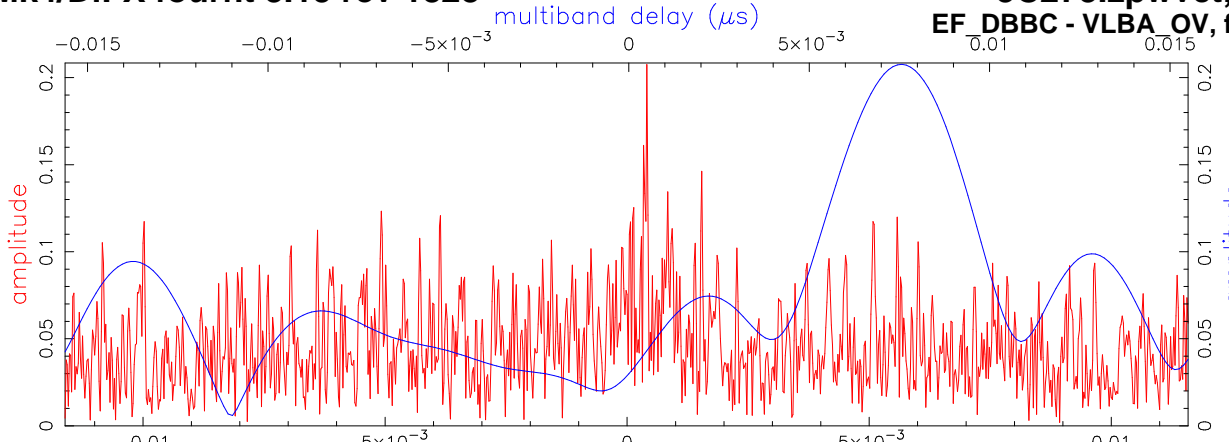


Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044000.00  
 Stop 044400.00  
 FRT 044200.00  
 Corr/FF/build  
 2017:208:013416  
 2017:215:022651  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2° 03' 8.598"

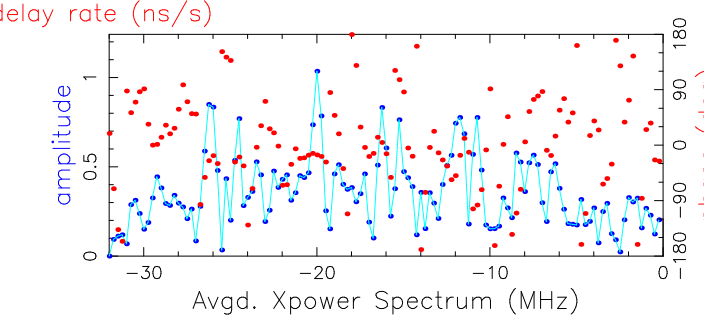
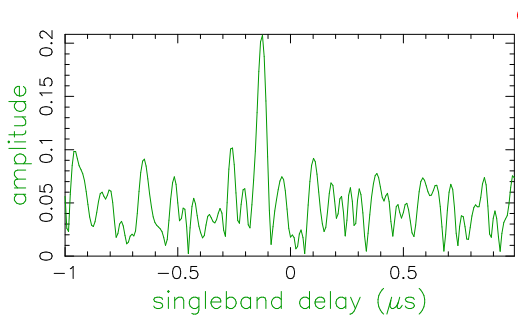
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:0	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)	-8.84840450816E+03		Apriori delay (usec)		-8.84835039334E+03		Resid mbdelay (usec)		8.38519E-03	+/- 2.4E-04
Sband delay (usec)	-8.84840771534E+03		Apriori clock (usec)		2.6121778E+01		Resid sbdelay (usec)		-5.73220E-02	+/- 1.9E-03
Phase delay (usec)	-8.84835039251E+03		Apriori clockrate (us/s)		-2.8424398E-07		Resid phdelay (usec)		8.35460E-07	+/- 4.2E-07
Delay rate (us/s)	-1.86552852148E+00		Apriori rate (us/s)		-1.86552892626E+00		Resid rate (us/s)		4.04789E-07	+/- 3.0E-09
Total phase (deg)	68.2		Apriori accel (us/s/s)		4.78254333880E-05		Resid phase (deg)		385.9	+/- 12.9
ph/seg (deg)	RMS 70.8	Theor. 30.9	Amplitude 0.297 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	126.6	54.0	Search (1024X32) 0.285	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	34.4	18.2	Interp. 0.000	Bits/sample: 2x2		Data rate (Mb/s): 1024		dr window (ns/s)	-0.012	0.012
amp/frq (%)	17.9	31.8	Inc. seg. avg. 0.459	Sample rate (MSamp/s): 64		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00
F: az 262.0 el 9.0 pa 39.1		o: az 117.8 el 34.3 pa -44.6		u,v (fr/asec) 10722.769 1600.927				simultaneous interpolator		

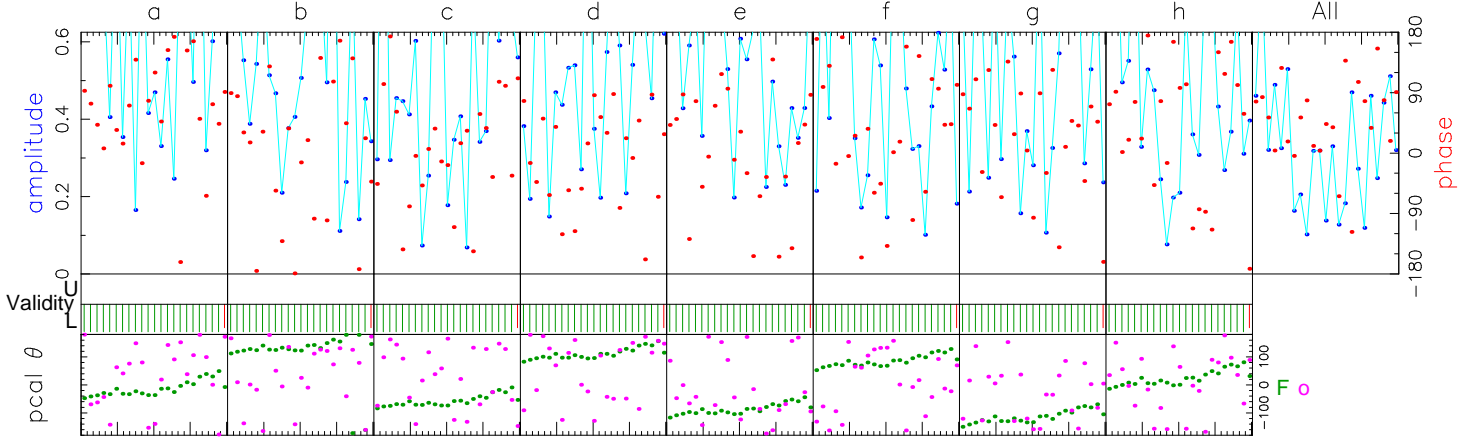


Fringe quality 0  
SNR 6.2  
Int time 239.895  
Amp 0.208  
Phase 773.0  
PFD 2.9e-02  
Delays (us)  
SBD -0.127039  
MBD 0.007630  
Fringe rate (Hz) 0.034425  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044000.00  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:022653  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2° 03' 8.598"

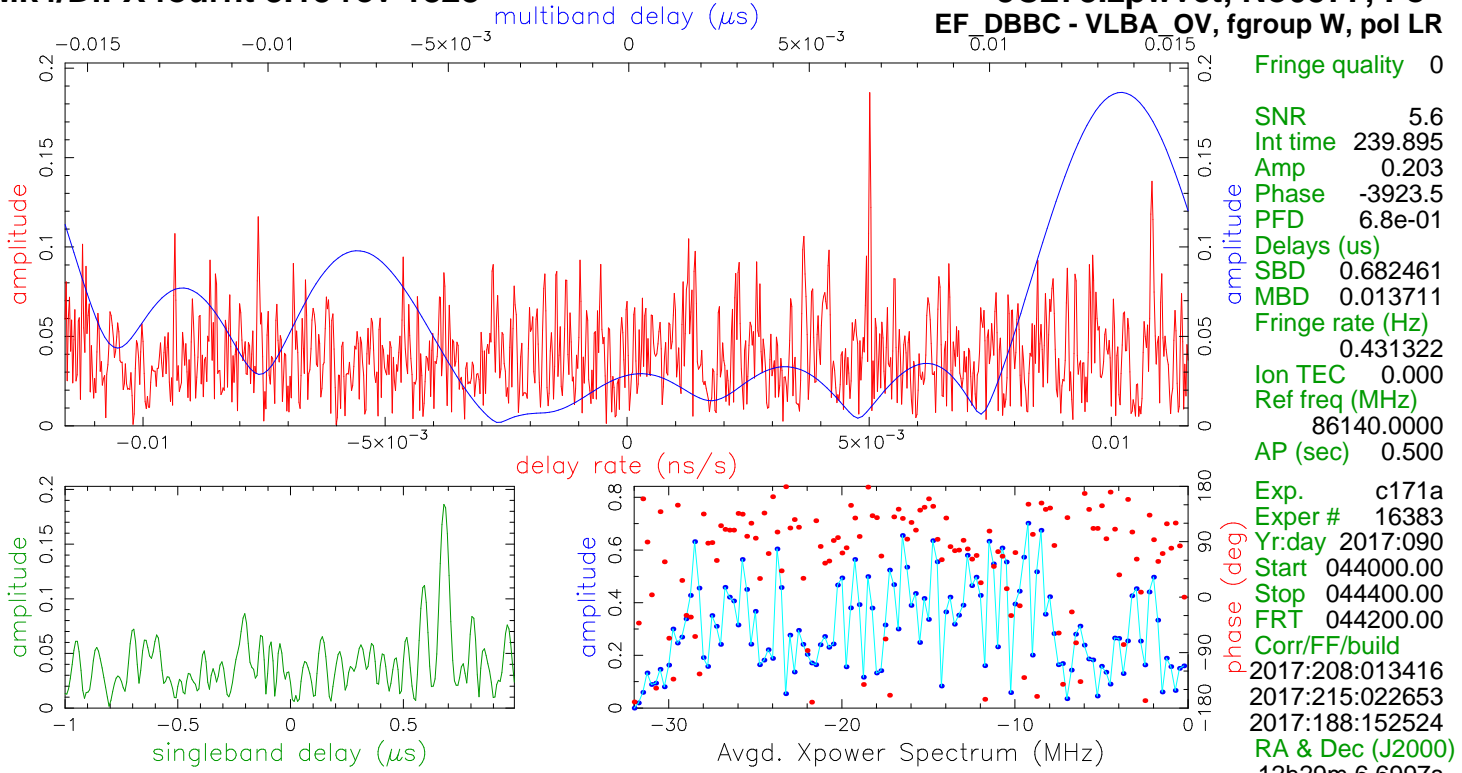
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



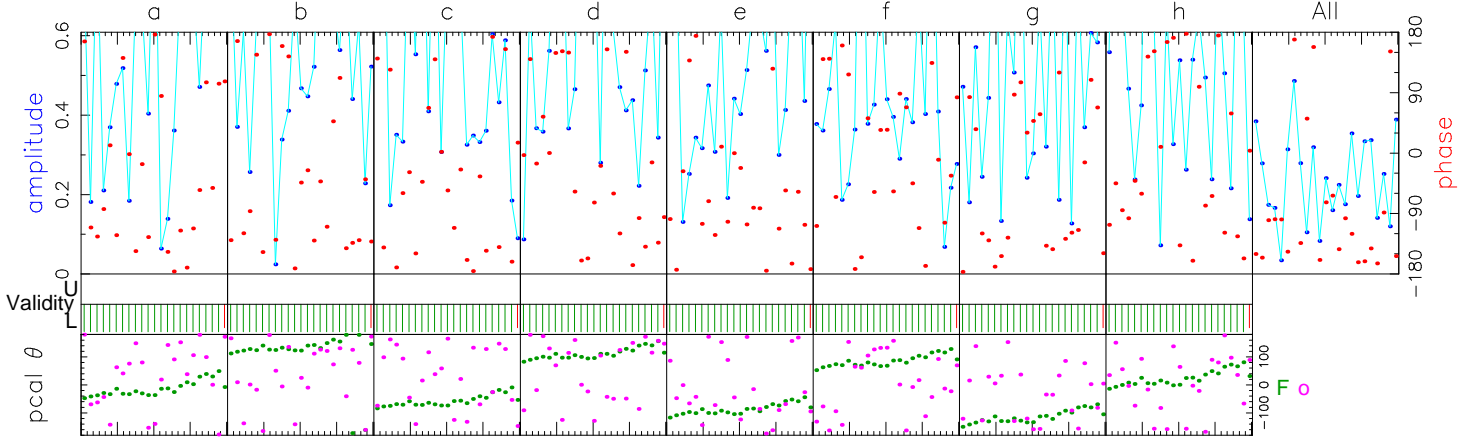
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
F	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	-8.84846776353E+03		Apriori delay (usec)		-8.84835039334E+03		Resid mbdelay (usec)		7.62981E-03	+/- 3.5E-04
Sband delay (usec)	-8.84847743234E+03		Apriori clock (usec)		2.6121778E+01		Resid sbdelay (usec)		-1.27039E-01	+/- 2.8E-03
Phase delay (usec)	-8.84835039163E+03		Apriori clockrate (us/s)		-2.8424398E-07		Resid phdelay (usec)		1.70863E-06	+/- 5.9E-07
Delay rate (us/s)	-1.86552852663E+00		Apriori rate (us/s)		-1.86552892626E+00		Resid rate (us/s)		3.99639E-07	+/- 4.3E-09
Total phase (deg)	455.3		Apriori accel (us/s/s)		4.78254333880E-05		Resid phase (deg)		773.0	+/- 18.4
ph/seg (deg)	RMS 61.4	Theor. 44.0	Amplitude 44.0	0.208 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	99.1	76.9	Search (1024X32)	0.192	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016 0.016
ph/frq (deg)	30.1	26.0	Interp.	0.000	Bits/sample: 2x2		Data rate (Mb/s): 1024		dr window (ns/s)	-0.012 0.012
amp/frq (%)	43.2	45.3	Inc. seg. avg.	0.257	Sample rate (MSamp/s): 64		nlags: 128 t_cohere infinite		ion window (TEC)	0.00 0.00
			Inc. frq. avg.	0.206	Data rate (Mb/s): 1024					

F: az 262.0 el 9.0 pa 39.1 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) 10722.769 1600.927 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fo..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Fo.W.98.zpwvct



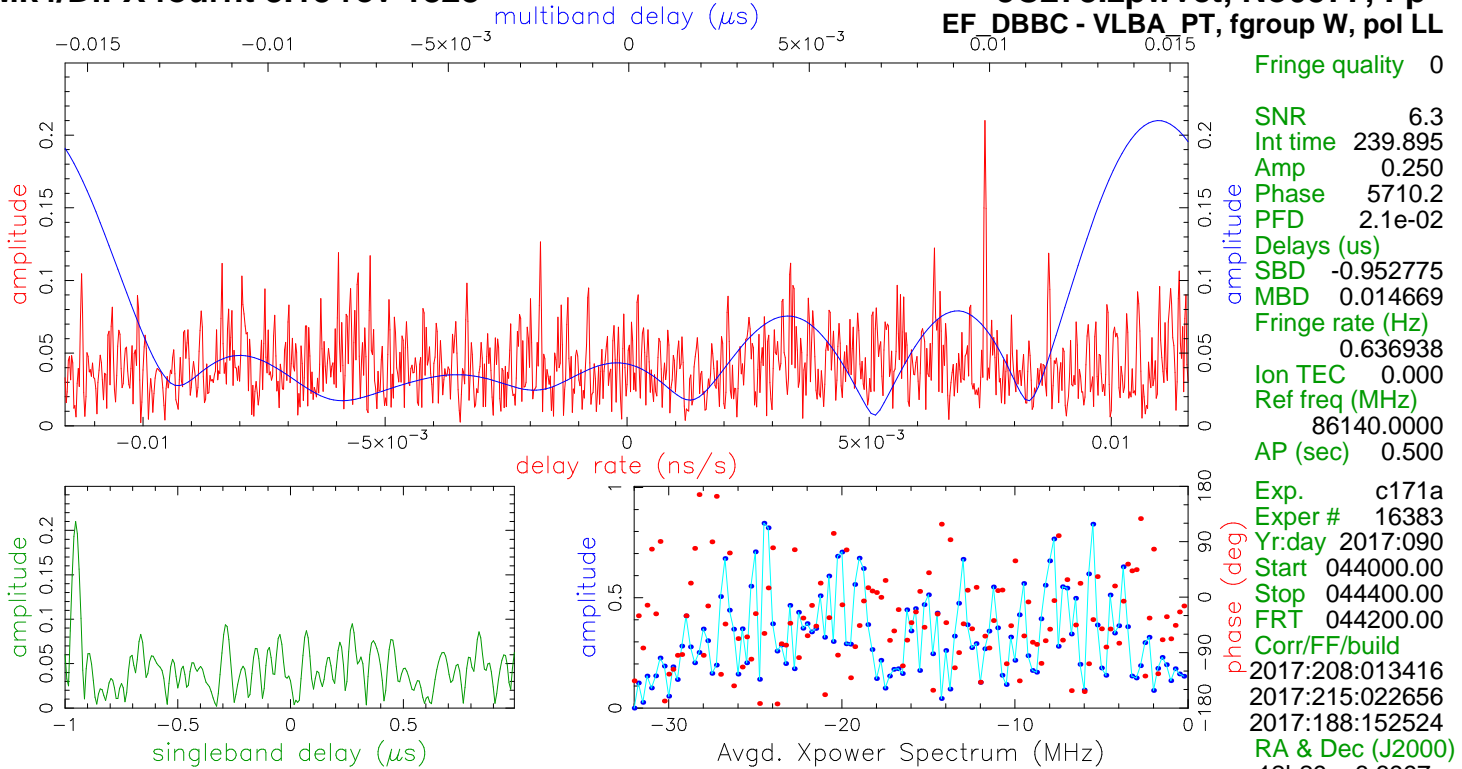


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

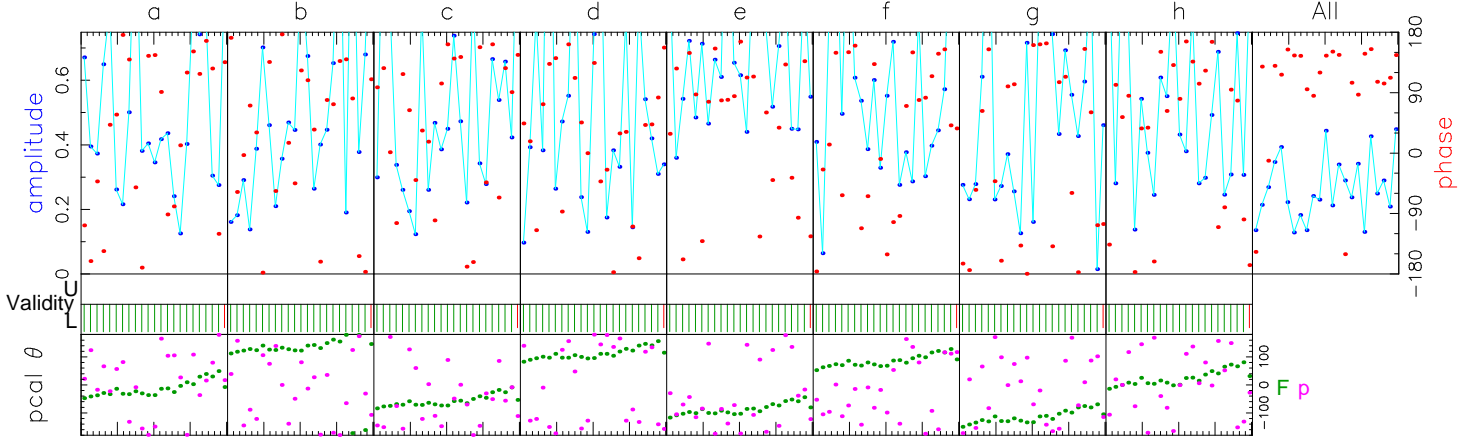


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-158.4	-138.8	-128.7	-149.4	-112.6	176.3	-178.7	-140.0	Phase	-143.5
0.2	0.3	0.2	0.2	0.3	0.0	0.2	0.3	Ampl.	0.2
47.1	217.0	173.4	17.2	193.7	105.3	99.8	211.5	Sbd box	216.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-8.84768043210E+03	Apriori delay (usec)	-8.84835039334E+03	Resid mbdelay (usec)	1.37112E-02	+/-	3.9E-04		
Sband delay (usec)	-8.84766793234E+03	Apriori clock (usec)	2.6121778E+01	Resid sbdelay (usec)	6.82461E-01	+/-	3.1E-03		
Phase delay (usec)	-8.84835039797E+03	Apriori clockrate (us/s)	-2.8424398E-07	Resid phdelay (usec)	-4.62780E-06	+/-	6.6E-07		
Delay rate (us/s)	-1.86552391904E+00	Apriori rate (us/s)	-1.86552892626E+00	Resid rate (us/s)	5.00722E-06	+/-	4.7E-09		
Total phase (deg)	-3881.2	Apriori accel (us/s/s)	4.78254333880E-05	Resid phase (deg)	-3923.5	+/-	20.4		

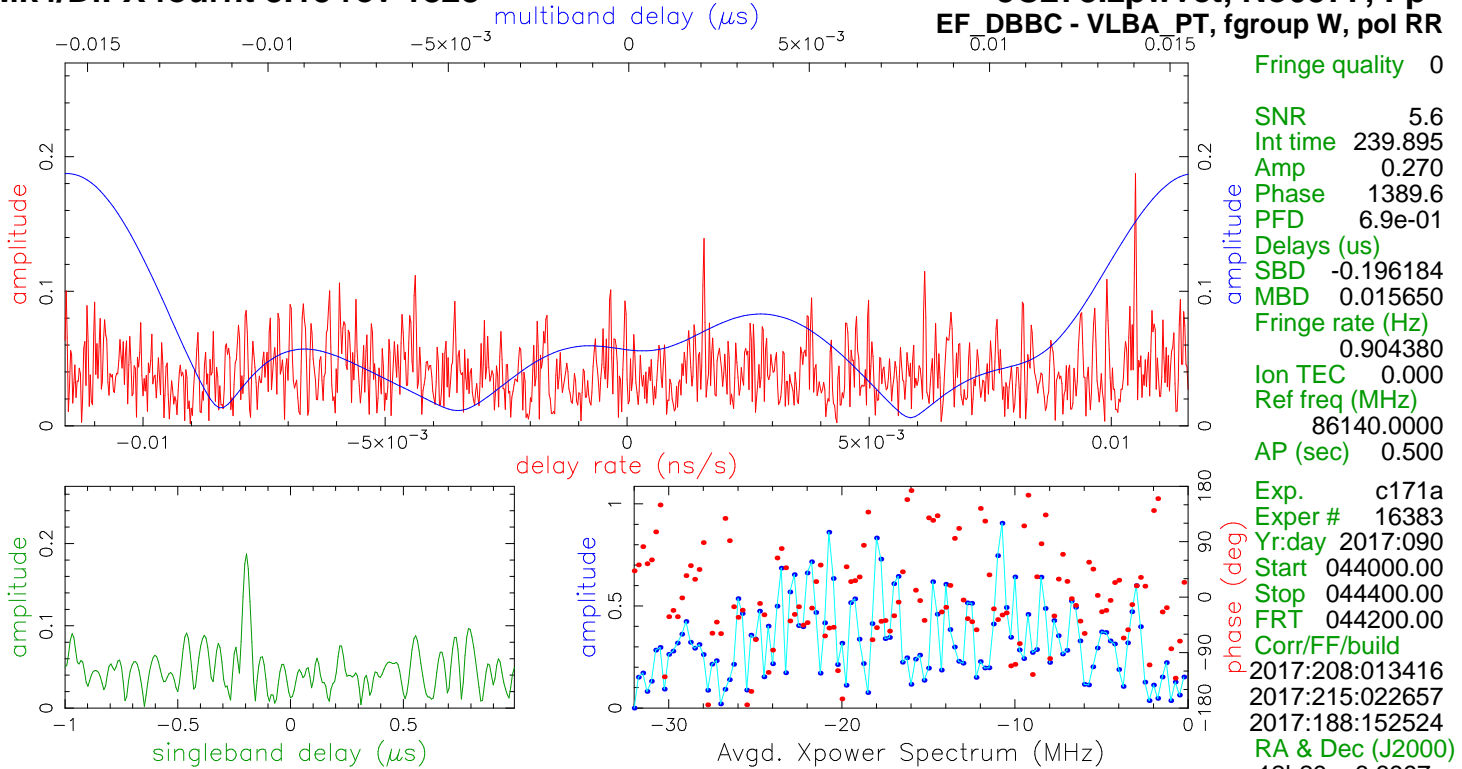
ph/seg (deg) 52.1 48.9 Search (1024X32) 0.181 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 65.1 85.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 26.8 28.8 Inc. seg. avg. 0.190 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 36.1 50.3 Inc. frq. avg. 0.190 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 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) 10722.769 1600.927 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fo.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Fo.W.99.zpwwct



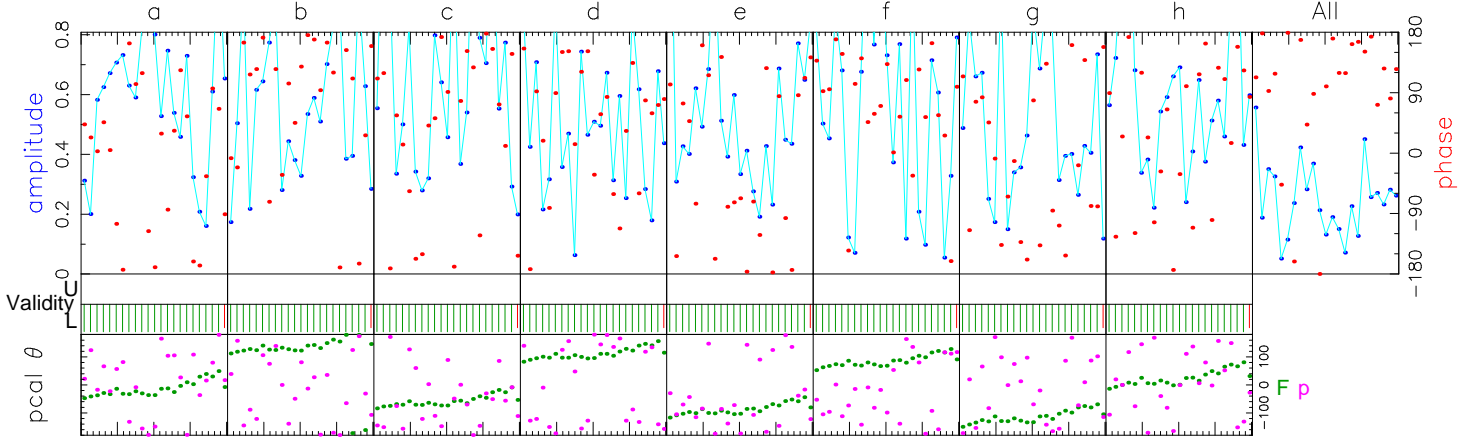
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



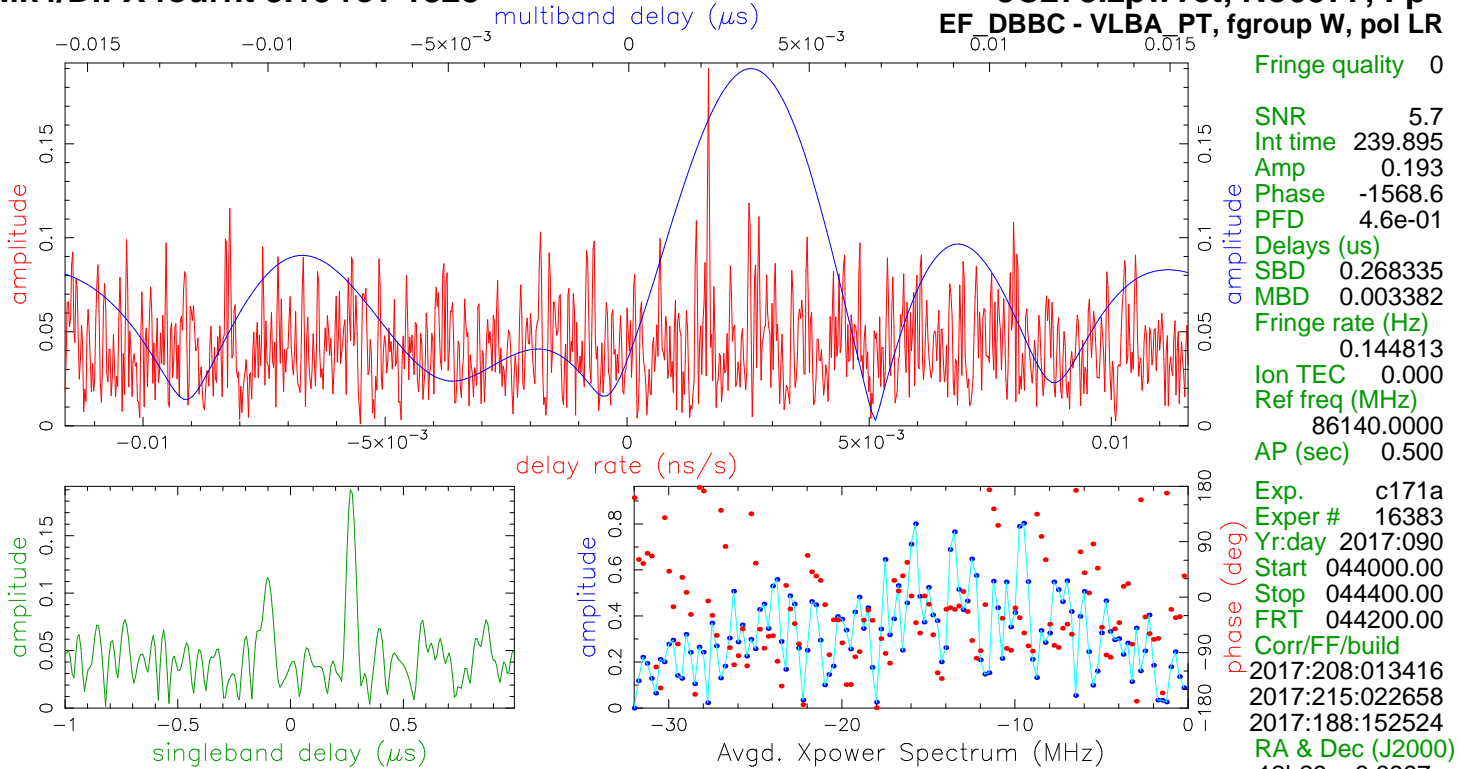
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	163.4	130.2
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	163.4	130.2
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.2	0.2
F:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.3	0.3
F:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	54.8	7.0
F	1000	1000	1000	1000	1000	1000	1000	1000	165.2	165.2
p	1000	1000	1000	1000	1000	1000	1000	1000	124.0	124.0
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	156.3	156.3
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	170.4	170.4
Group delay (usec)(sbd)		-1.13192133932E+04			-1.13182593122E+04				1.46690E-02	+/- 3.5E-04
Sband delay (usec)		-1.13192120867E+04			2.5924679E+01				-9.52775E-01	+/- 2.7E-03
Phase delay (usec)		-1.13182593080E+04			-2.9093478E-07				4.19959E-06	+/- 5.9E-07
Delay rate (us/s)		-1.72898645525E+00			-1.72899384947E+00				7.39422E-06	+/- 4.2E-09
Total phase (deg)			5656.4		6.11173478166E-05				5710.2	+/- 18.2
ph/seg (deg)	43.8	43.7		0.250 +/- 0.040						
amp/seg (%)	52.8	76.2		0.000						
ph/frq (deg)	21.4	25.8		0.244						
amp/frq (%)	25.8	45.0		0.238						
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										



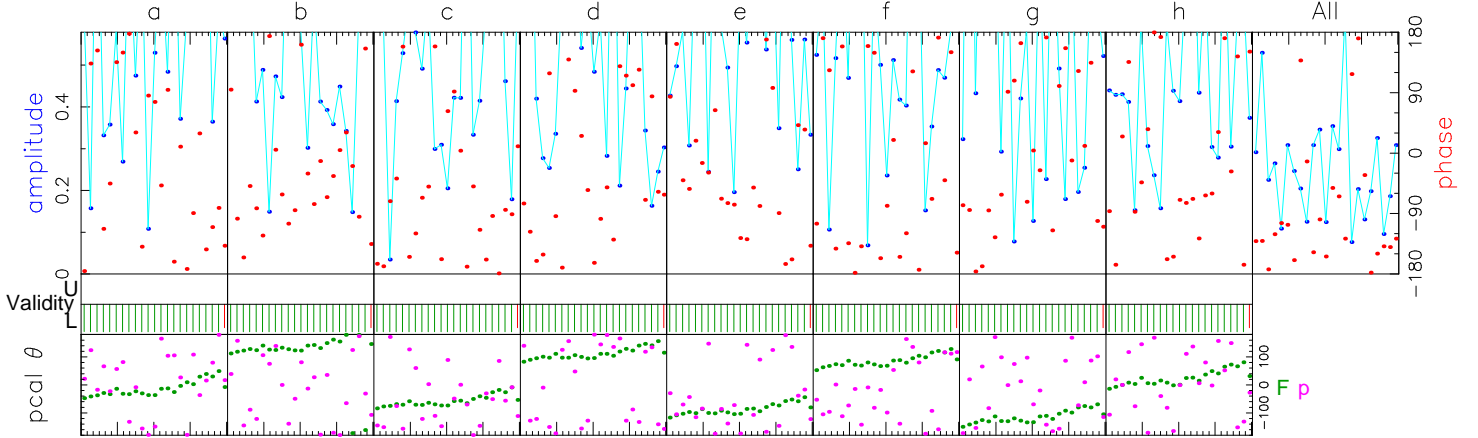
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
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		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-1.13184624117E+04		Apriori delay (usec)		-1.13182593122E+04		Resid mbdelay (usec)	1.56504E-02	+/- 3.9E-04
Sband delay (usec)		-1.13184554962E+04		Apriori clock (usec)		2.5924679E+01		Resid sbdelay (usec)	-1.96184E-01	+/- 3.1E-03
Phase delay (usec)		-1.13182593080E+04		Apriori clockrate (us/s)		-2.9093478E-07		Resid phdelay (usec)	4.17837E-06	+/- 6.6E-07
Delay rate (us/s)		-1.72898335052E+00		Apriori rate (us/s)		-1.72899384947E+00		Resid rate (us/s)	1.04990E-05	+/- 4.7E-09
Total phase (deg)			1335.8	Apriori accel (us/s/s)		6.11173478166E-05		Resid phase (deg)	1389.6	+/- 20.4
RMS	55.0	48.9		Search (1024X32)	0.184			PCal mode: MANUAL, MANUAL		
ph/seg (deg)	72.8	85.3		Interp.	0.000			PCal rate: 0.000E+00, 0.000E+00 (us/s)		
amp/seg (%)	39.7	28.8		Inc. seg. avg.	0.264			sb window (us)	-1.000	1.000
ph/frq (deg)	45.1	50.3		Inc. frq. avg.	0.273			Bits/sample: 2x2	-0.016	0.016
amp/frq (%)								SampCntNorm: enabled	-0.012	0.012
								Sample rate(MSamp/s): 64	0.000	0.000
								Data rate(Mb/s): 1024	0.00	0.00
								nlags: 128 t_cohere infinite		



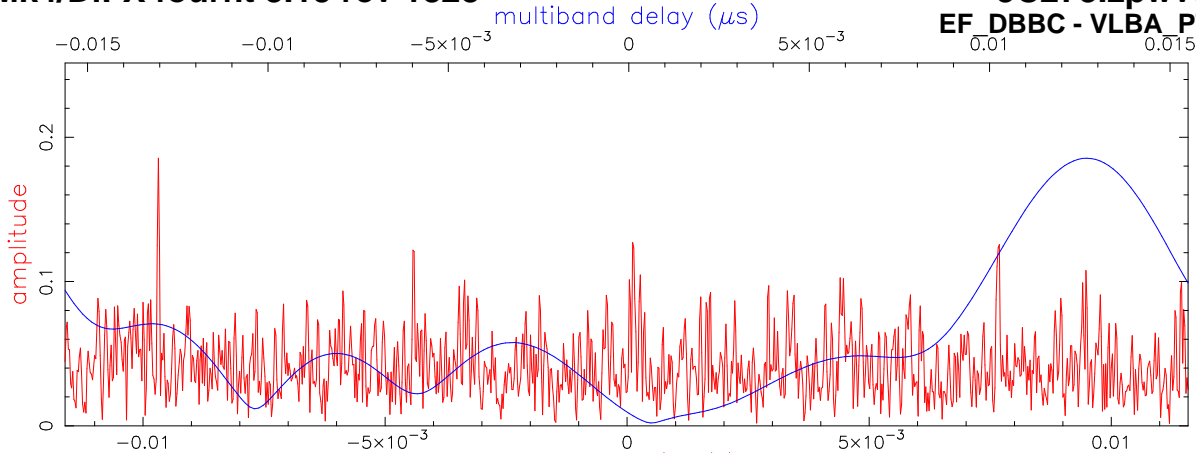
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



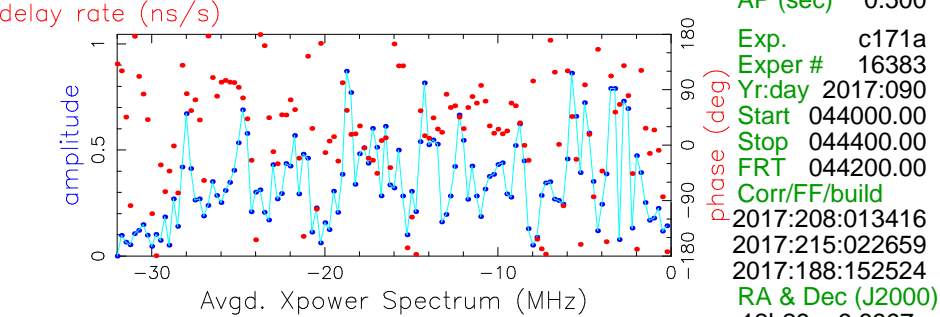
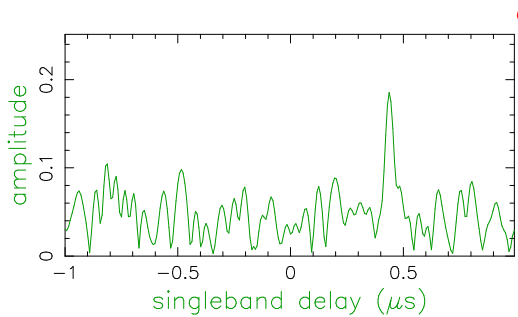
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-154.8	-87.3	-136.8	-143.7	-67.3	-169.7	-110.5	-115.0	Phase	-128.6
0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	Ampl.	0.2
7.5	164.3	127.5	188.1	160.2	162.6	164.2	173.1	Sbd box	163.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.13180059299E+04		Apriori delay (usec)	-1.13182593122E+04		Resid mbdelay (usec)	3.38230E-03	+/-	3.8E-04
Sband delay (usec)	-1.13179909772E+04		Apriori clock (usec)	2.5924679E+01		Resid sbdelay (usec)	2.68335E-01	+/-	3.0E-03
Phase delay (usec)	-1.13182593163E+04		Apriori clockrate (us/s)	-2.9093478E-07		Resid phdelay (usec)	-4.14685E-06	+/-	6.4E-07
Delay rate (us/s)	-1.72899216834E+00		Apriori rate (us/s)	-1.72899384947E+00		Resid rate (us/s)	1.68113E-06	+/-	4.7E-09
Total phase (deg)	-1622.4		Apriori accel (us/s/s)	6.11173478166E-05		Resid phase (deg)	-1568.6	+/-	20.0

RMS 54.2 Theor. 48.0 Amplitude 0.193 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 54.2 48.0 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 76.1 83.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 38.0 28.3 Inc. seg. avg. 0.191 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 amp/frq (%) 37.8 49.4 Inc. frq. avg. 0.201 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 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) 9949.592 2003.497 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fp.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Fp.W.103.zpwwct

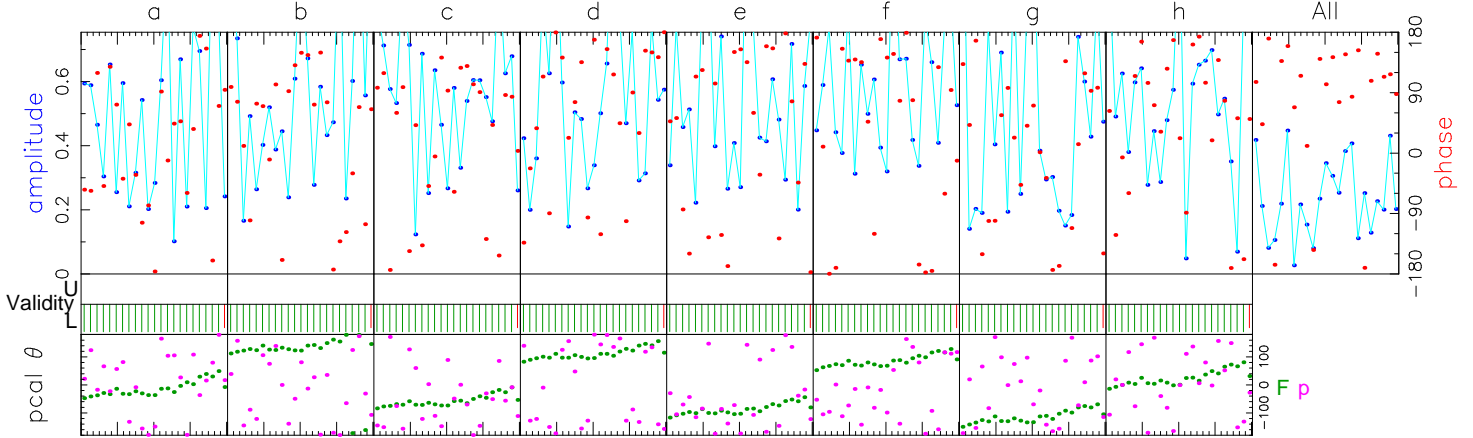


Fringe quality 0  
 SNR 5.6  
 Int time 239.895  
 Amp 0.251  
 Phase -2397.4  
 PFD 8.1e-01  
 Delays (us)  
 SBD 0.438226  
 MBD 0.012690  
 Fringe rate (Hz)  
 -0.833439  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044000.00  
 Stop 044400.00  
 FRT 044200.00  
 Corr/FF/build  
 2017:208:013416  
 2017:215:022659  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6995"  
 +2° 03' 8.598"

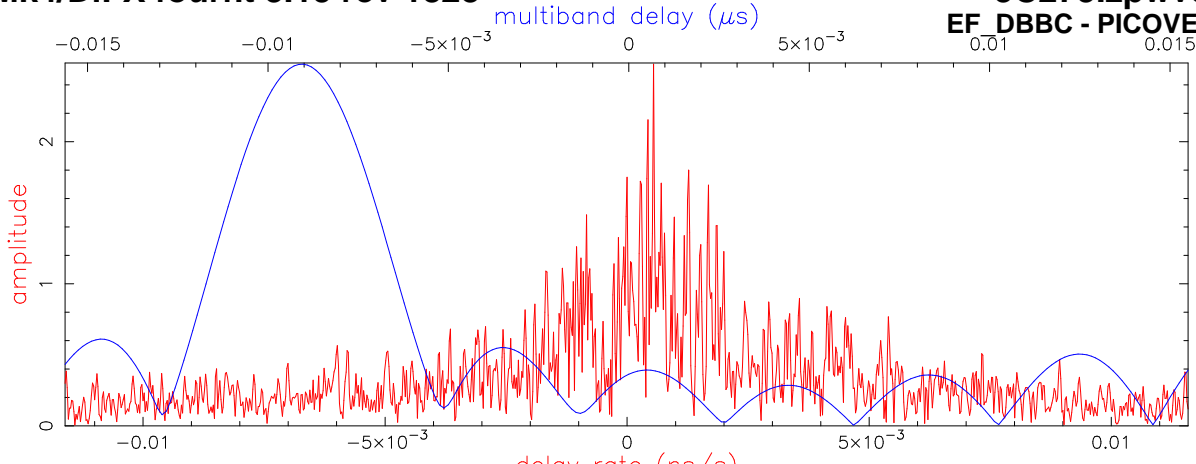
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



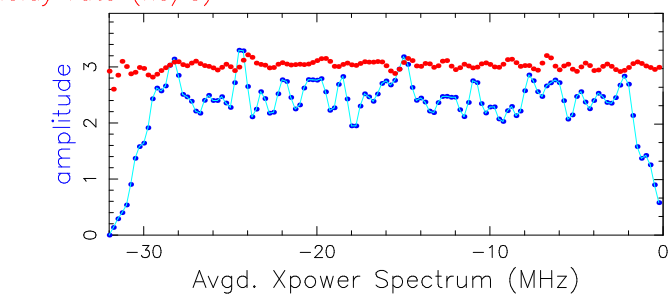
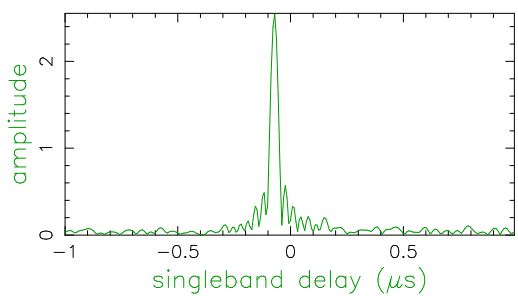
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		-1.13178091219E+04				-1.13182593122E+04			1.26903E-02	+/- 3.9E-04
Sband delay (usec)		-1.13178210867E+04				2.5924679E+01			4.38226E-01	+/- 3.1E-03
Phase delay (usec)		-1.13182593082E+04				-2.9093478E-07			3.95224E-06	+/- 6.6E-07
Delay rate (us/s)		-1.72900352487E+00				-1.72899384947E+00			-9.67540E-06	+/- 4.8E-09
Total phase (deg)			-2451.2			6.11173478166E-05			-2397.4	+/- 20.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
Bits/sample: 2x2										
SampCntNorm: enabled										
Sample rate(MSamp/s): 64										
Data rate(Mb/s): 1024										
nlags: 128 t_cohere infinite										
ion window (TEC)									0.00	0.00

ph/seg (deg) 48.0 49.4 Search (1024X32) 0.177 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 70.5 86.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled sb window (us) -1.000 1.000  
 ph/frq (deg) 46.9 29.2 Inc. seg. avg. 0.234 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite mb window (us) -0.016 0.016  
 amp/frq (%) 37.7 50.9 Inc. frq. avg. 0.256 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 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) 9949.592 2003.497 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/Fp.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Fp.W.104.zpwwct

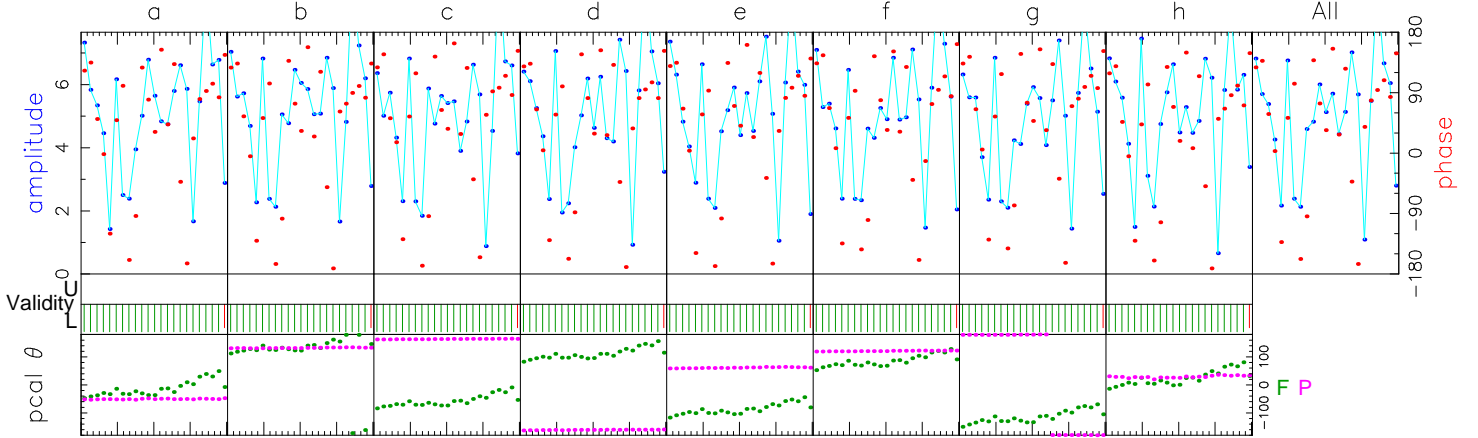




Fringe quality 5  
 SNR 76.3  
 Int time 239.491  
 Amp 2.554  
 Phase 455.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.071599  
 MBD -0.009064  
 Fringe rate (Hz) 0.046559  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044000.00  
 Stop 044400.00  
 FRT 044200.00  
 Corr/FF/build  
 2017:208:013416  
 2017:215:022700  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6997s  
 +2°03' 8.598"

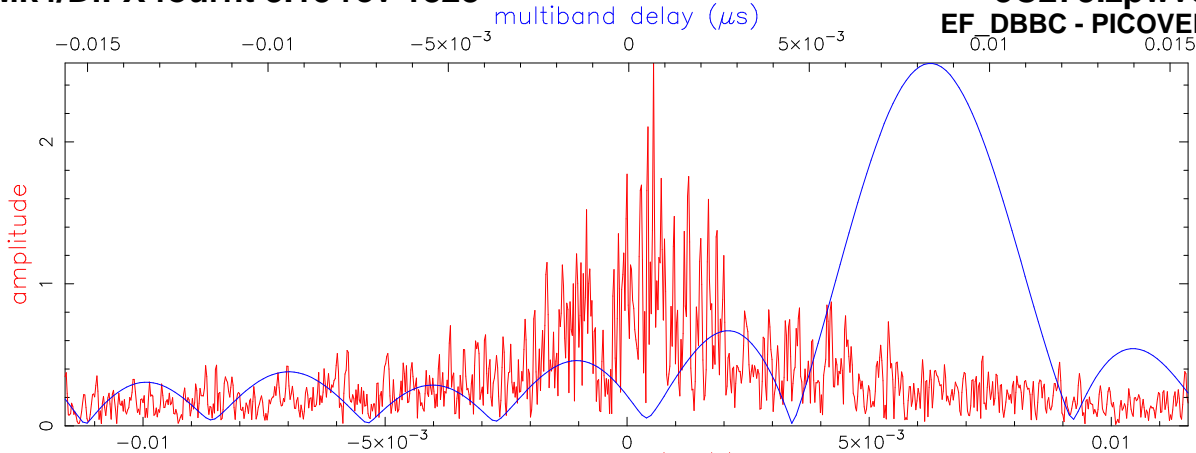


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	92.7	91.9	99.5	98.7	98.6	98.0	99.8	87.2	Phase	95.8
	2.7	2.6	2.4	2.7	2.7	2.4	2.5	2.5	Ampl.	2.6
	119.7	119.9	119.8	119.9	119.9	119.9	119.8	119.8	Sbd box	119.8
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	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
F	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)	-3.44806976428E+03		Apriori delay (usec)		-3.44799820063E+03		Resid mbdelay (usec)		-9.06365E-03	+/- 2.8E-05
Sband delay (usec)	-3.44806979913E+03		Apriori clock (usec)		2.7882486E+01		Resid sbdelay (usec)		-7.15985E-02	+/- 2.3E-04
Phase delay (usec)	-3.44799819754E+03		Apriori clockrate (us/s)		-5.4640006E-07		Resid phdelay (usec)		3.08804E-06	+/- 4.8E-08
Delay rate (us/s)	1.83529279166E-01		Apriori rate (us/s)		1.83528738668E-01		Resid rate (us/s)		5.40498E-07	+/- 3.5E-10
Total phase (deg)	454.9		Apriori accel (us/s/s)		1.91278894966E-05		Resid phase (deg)		455.8	+/- 1.5

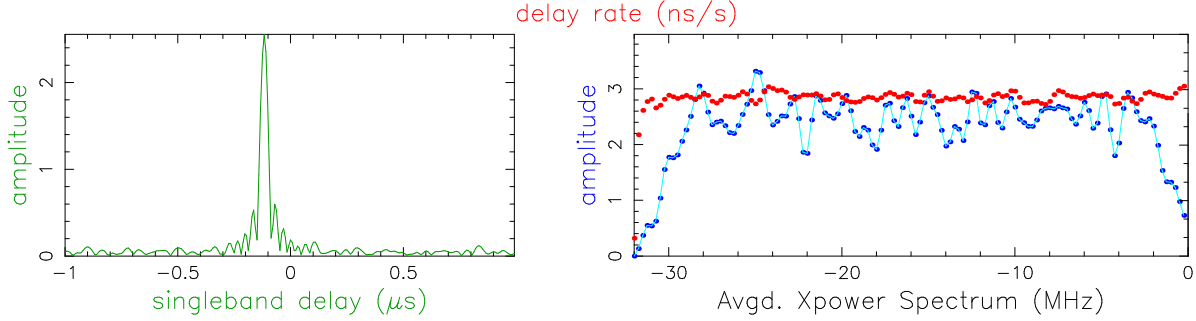
ph/seg (deg) 73.2 3.6 Theor. Amplitude 2.554 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 121.4 6.3 Search (1024X32) 2.450 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 5.0 2.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.5 3.7 Inc. seg. avg. 5.027 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 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/FP.W.105.zpwwct



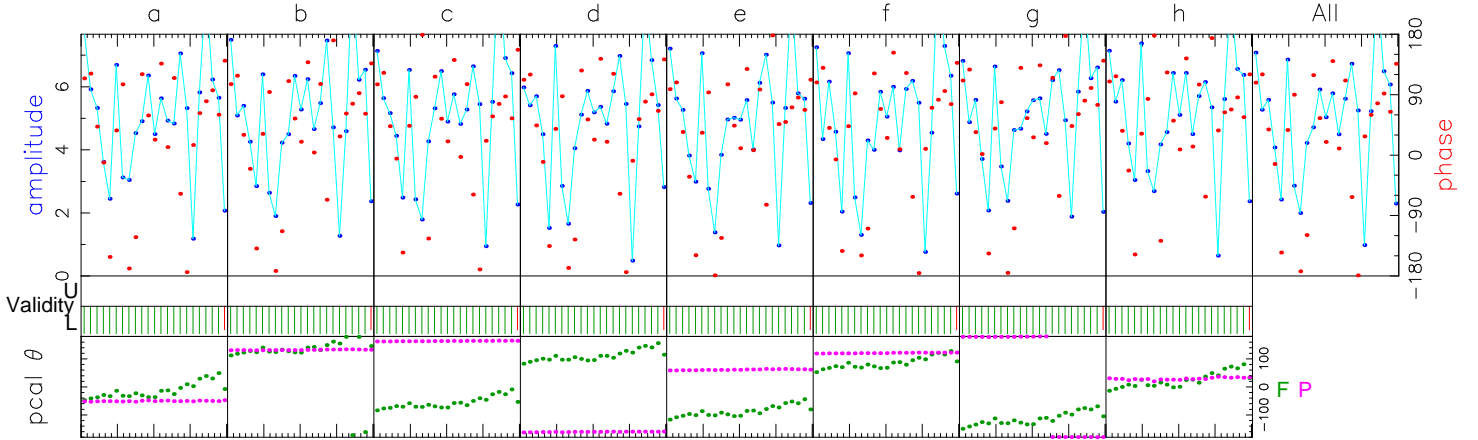
Fringe quality 5

SNR 76.4  
Int time 239.491  
Amp 2.556  
Phase 798.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.116765  
MBD 0.008358  
Fringe rate (Hz) 0.046560  
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  
2017:215:022701  
2017:188:152524  
RA & Dec (J2000)  
12h29m 6.6997s  
+2°03' 8.598"

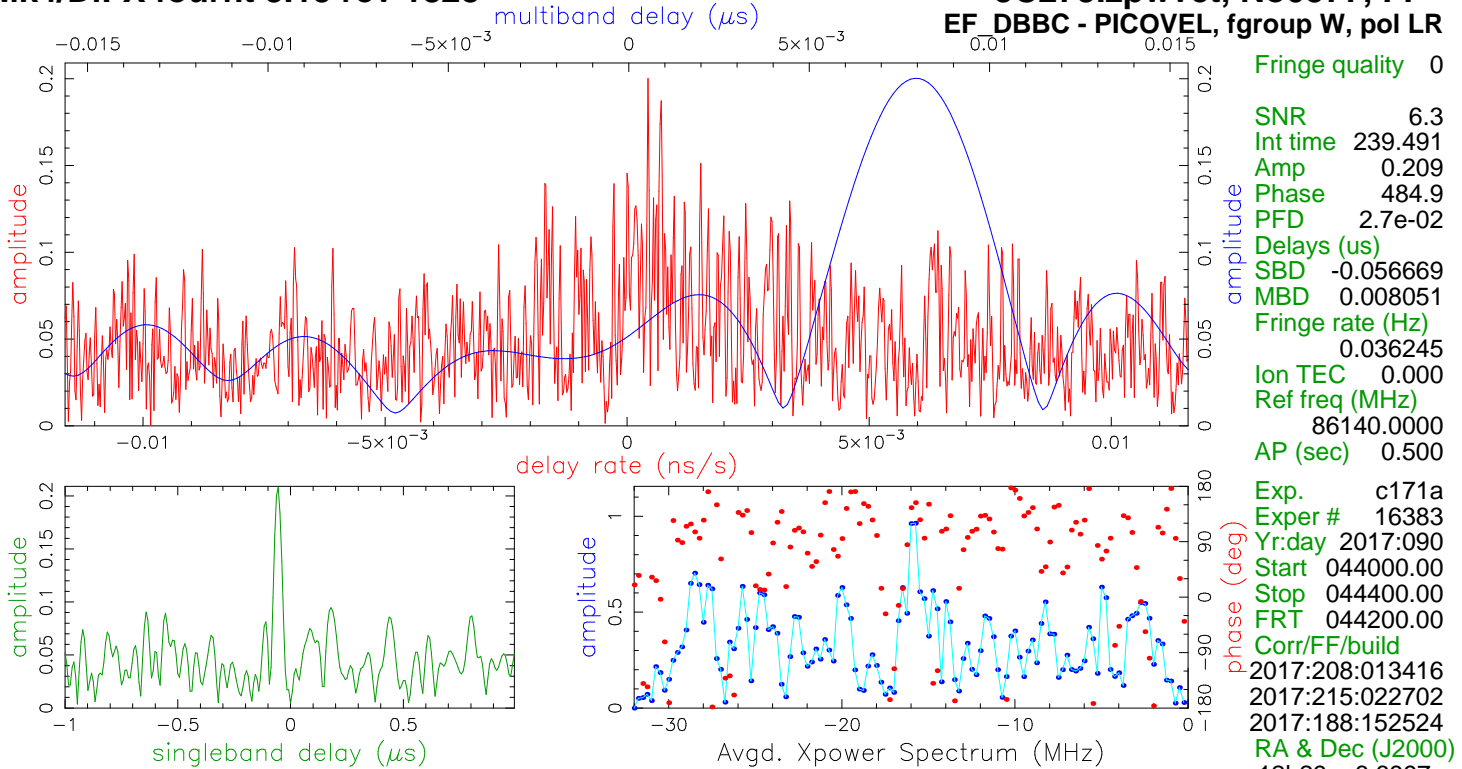


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

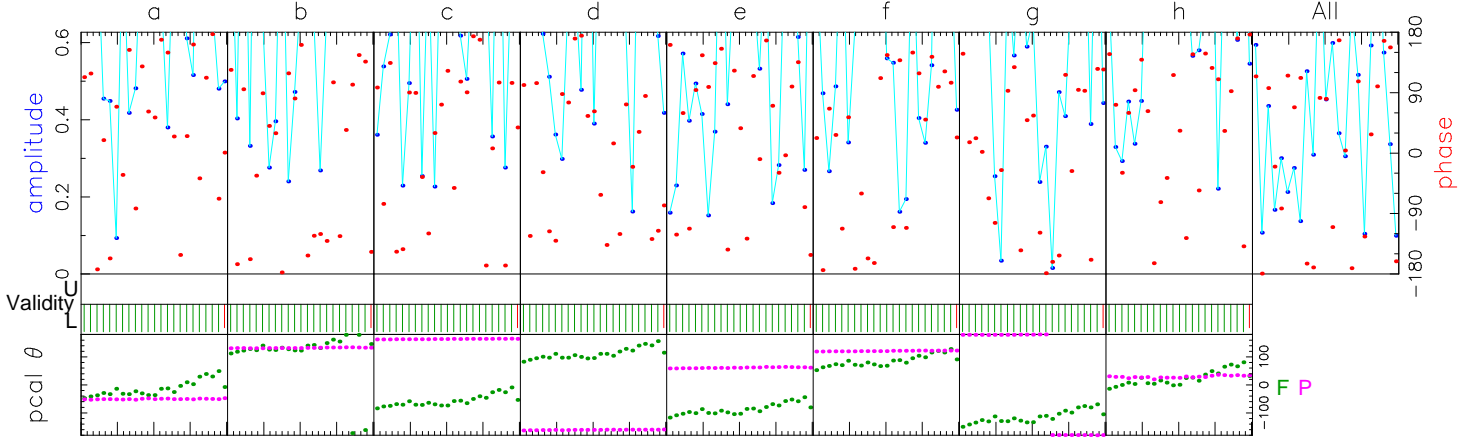


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	-3.44811484290E+03		Apriori delay (usec)		-3.44799820063E+03		Resid mbdelay (usec)		8.35773E-03	+/- 2.8E-05
Sband delay (usec)	-3.44811496563E+03		Apriori clock (usec)		2.7882486E+01		Resid sbdelay (usec)		-1.16765E-01	+/- 2.3E-04
Phase delay (usec)	-3.44799819809E+03		Apriori clockrate (us/s)		-5.4640006E-07		Resid phdelay (usec)		2.54164E-06	+/- 4.8E-08
Delay rate (us/s)	1.83529279186E-01		Apriori rate (us/s)		1.83528738668E-01		Resid rate (us/s)		5.40518E-07	+/- 3.5E-10
Total phase (deg)	797.9		Apriori accel (us/s/s)		1.91278894966E-05		Resid phase (deg)		798.8	+/- 1.5

RMS Theor. Amplitude 2.556 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 73.3 3.6 Search (1024X32) 2.427 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 120.0 6.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 4.5 2.1 Inc. seg. avg. 4.980 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 (%) 2.4 3.7 Inc. frq. avg. 2.559 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
110.6	143.0	122.5	88.6	136.8	134.3	93.2	128.3	Phase	124.9
0.2	0.3	0.2	0.0	0.2	0.2	0.2	0.2	Ampl.	0.2
153.0	31.4	188.7	25.5	140.4	120.0	219.1	83.1	Sbd box	121.7
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	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-3.44805265004E+03		Apriori delay (usec)	-3.44799820063E+03		Resid mbdelay (usec)	8.05059E-03	+/-	3.5E-04
Sband delay (usec)	-3.44805486913E+03		Apriori clock (usec)	2.7882486E+01		Resid sbdelay (usec)	-5.66685E-02	+/-	2.8E-03
Phase delay (usec)	-3.44799819660E+03		Apriori clockrate (us/s)	-5.4640006E-07		Resid phdelay (usec)	4.02844E-06	+/-	5.9E-07
Delay rate (us/s)	1.83529159432E-01		Apriori rate (us/s)	1.83528738668E-01		Resid rate (us/s)	4.20764E-07	+/-	4.3E-09
Total phase (deg)		484.1	Apriori accel (us/s/s)	1.91278894966E-05		Resid phase (deg)	484.9	+/-	18.3

ph/seg (deg) 75.8 44.0 Search (1024X32) 0.191 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

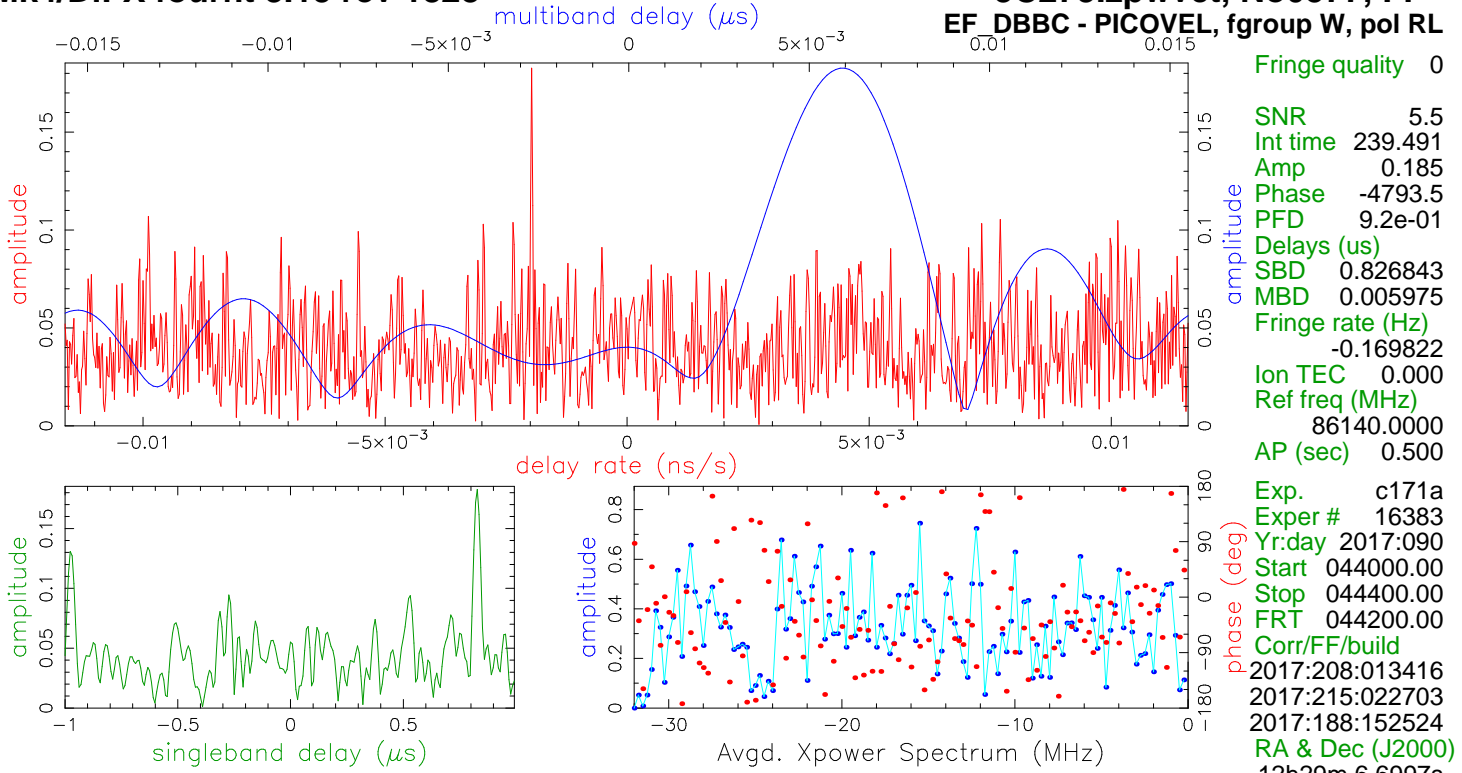
amp/seg (%) 157.8 76.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 22.7 25.9 Inc. seg. avg. 0.327 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 35.2 45.2 Inc. frq. avg. 0.189 Data rate (Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

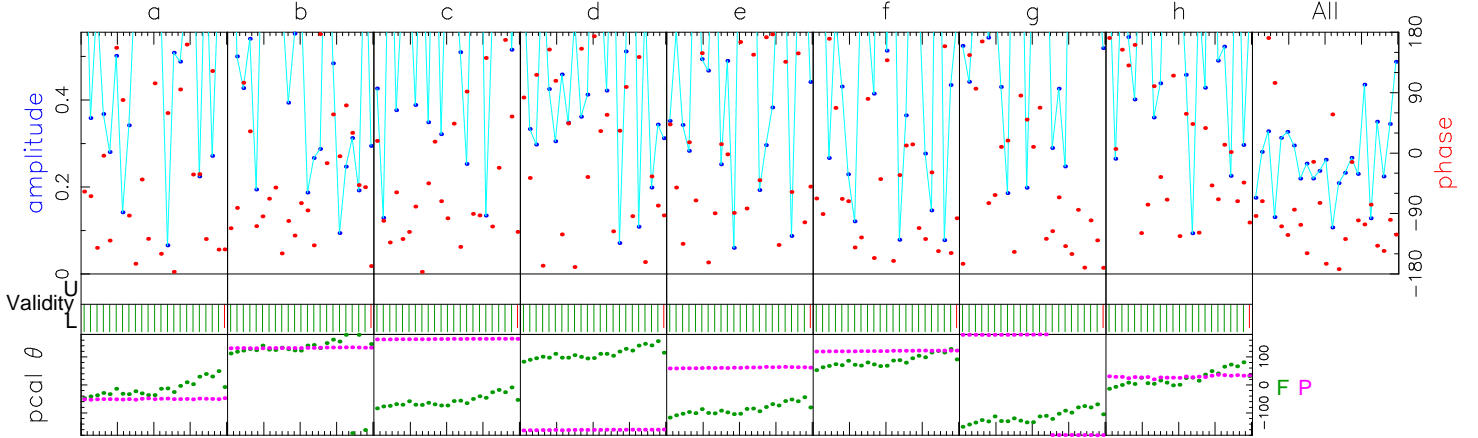
F: az 262.0 el 9.0 pa 39.1 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/FP.W.107.zpwwct



Fringe quality 0  
 SNR 5.5  
 Int time 239.491  
 Amp 0.185  
 Phase -4793.5  
 PFD 9.2e-01  
 Delays (us)  
 SBD 0.826843  
 MBD 0.005975  
 Fringe rate (Hz)  
 -0.169822  
 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  
 2017:215:022703  
 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

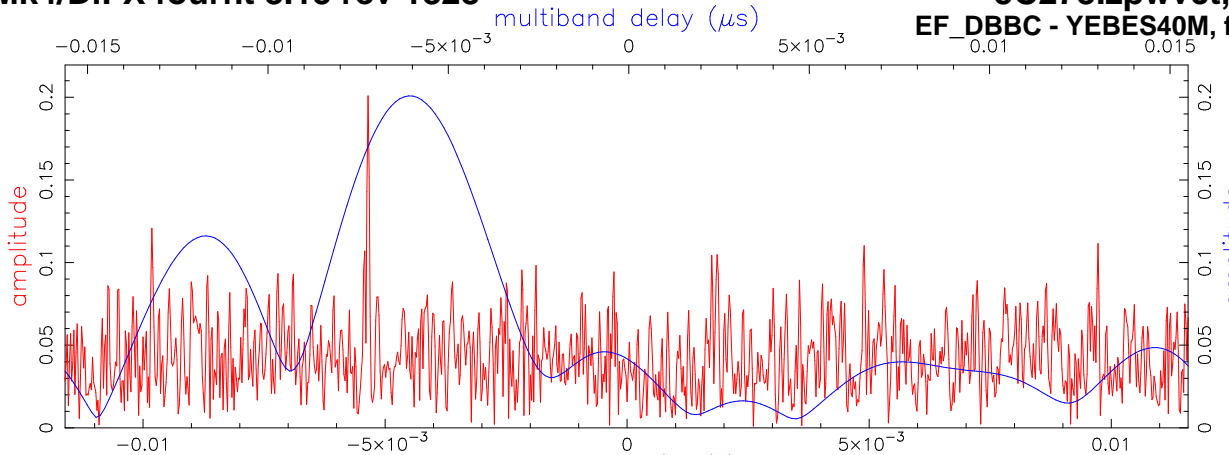


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-131.8	-75.4	-101.0	-164.3	-135.7	-103.6	-141.9	-82.9	Phase	-113.5
	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.2	Ampl.	0.2
	143.4	3.4	65.8	204.5	5.2	201.6	105.6	114.7	Sbd box	234.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.44717972573E+03		Apriori delay (usec)		-3.44799820063E+03		Resid mbdelay (usec)		5.97490E-03	+/- 4.0E-04
Sband delay (usec)	-3.44717135763E+03		Apriori clock (usec)		2.7882486E+01		Resid sbdelay (usec)		8.26843E-01	+/- 3.1E-03
Phase delay (usec)	-3.44799820429E+03		Apriori clockrate (us/s)		-5.4640006E-07		Resid phdelay (usec)		-3.65856E-06	+/- 6.7E-07
Delay rate (us/s)	1.83526767204E-01		Apriori rate (us/s)		1.83528738668E-01		Resid rate (us/s)		-1.97146E-06	+/- 4.9E-09
Total phase (deg)	-4794.3		Apriori accel (us/s/s)		1.91278894966E-05		Resid phase (deg)		-4793.5	+/- 20.9

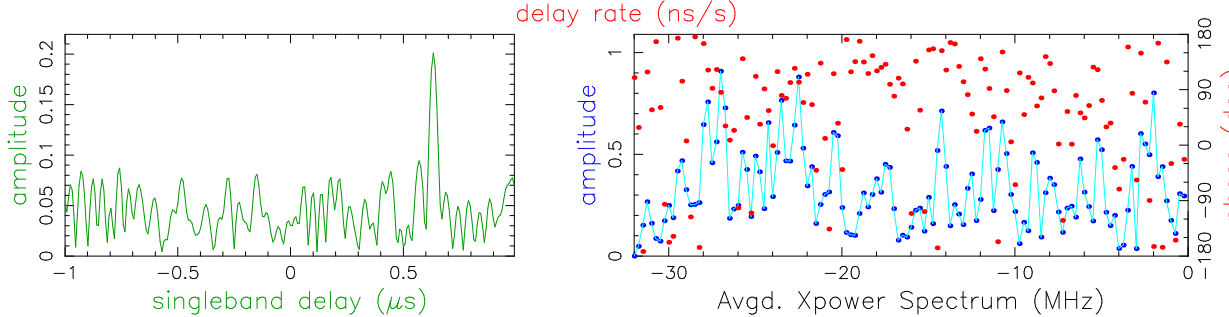
ph/seg (deg) 63.1 50.1 Theor. Amplitude 0.185 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 64.7 87.5 Search (1024X32) 0.177 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 33.8 29.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 26.0 51.6 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  
 F: az 262.0 el 9.0 pa 39.1 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/FP.W.108.zpwwct



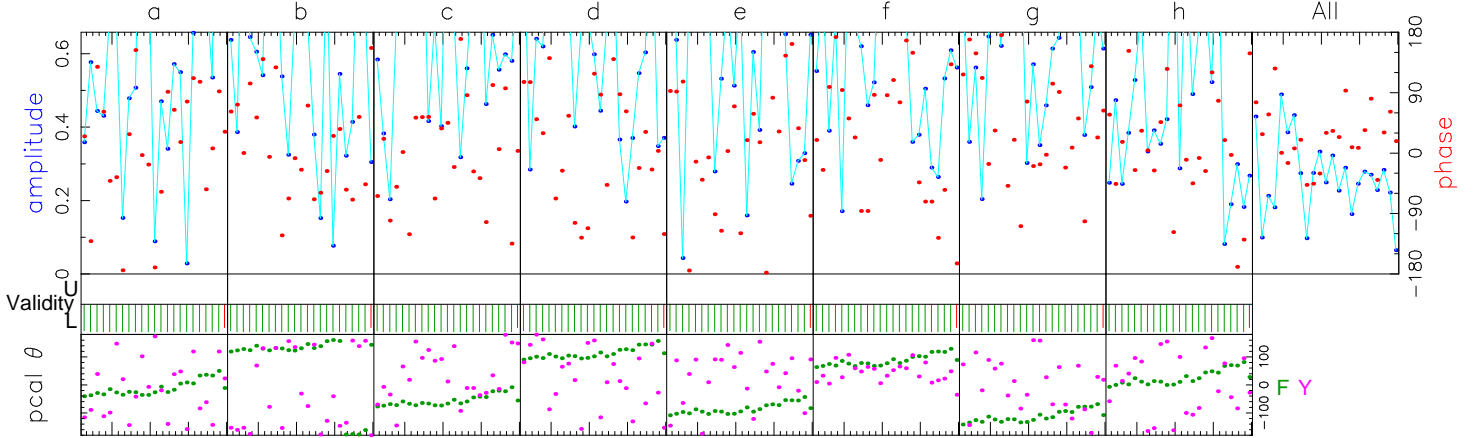




Fringe quality 0  
 SNR 5.9  
 Int time 228.080  
 Amp 0.220  
 Phase -3577.4  
 PFD 2.4e-01  
 Delays (us)  
 SBD 0.633282  
 MBD -0.006075  
 Fringe rate (Hz)  
 -0.460126  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 044011.50  
 Stop 044400.00  
 FRT 044200.00  
 Corr/FF/build  
 2017:208:013416  
 2017:215:023057  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.6995"  
 +2°03' 8.598"

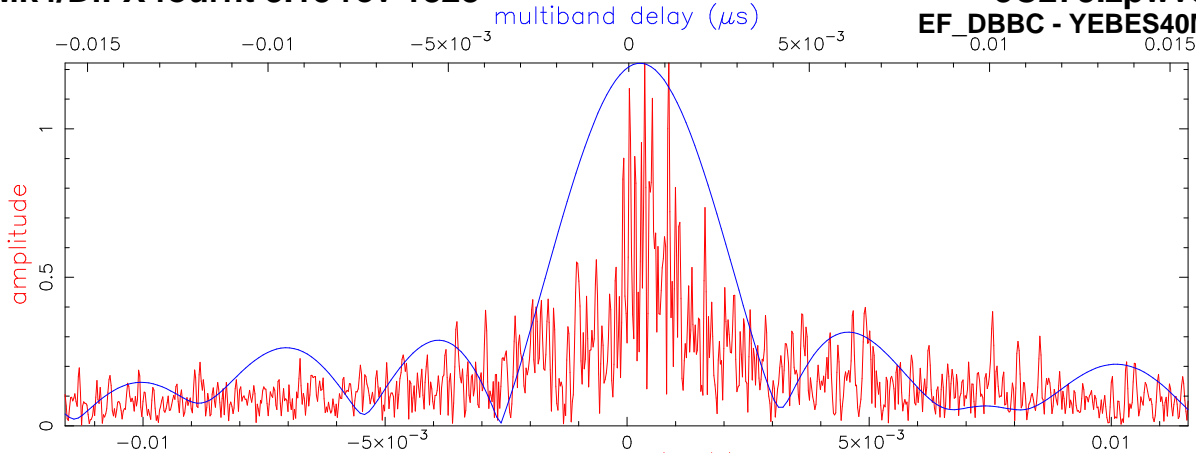


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

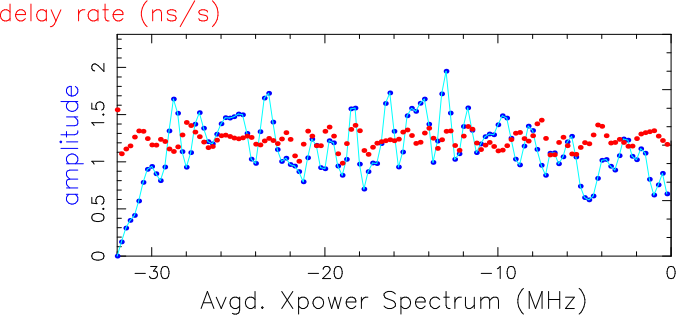
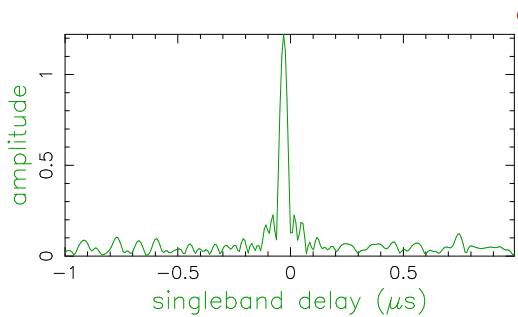


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.10665178661E+03		Apriori delay (usec)	-3.10727071167E+03	Resid mbdelay (usec)	-6.07494E-03	+/-	3.7E-04		
Sband delay (usec)	-3.10663742967E+03		Apriori clock (usec)	2.4534796E+01	Resid sbdelay (usec)	6.33282E-01	+/-	2.9E-03		
Phase delay (usec)	-3.10727071094E+03		Apriori clockrate (us/s)	-4.8640009E-07	Resid phdelay (usec)	7.29713E-07	+/-	6.3E-07		
Delay rate (us/s)	1.31127458643E-01		Apriori rate (us/s)	1.31132800252E-01	Resid rate (us/s)	-5.34161E-06	+/-	4.8E-09		
Total phase (deg)		-3614.6	Apriori accel (us/s/s)	1.71181766968E-05	Resid phase (deg)	-3577.4	+/-	19.5		

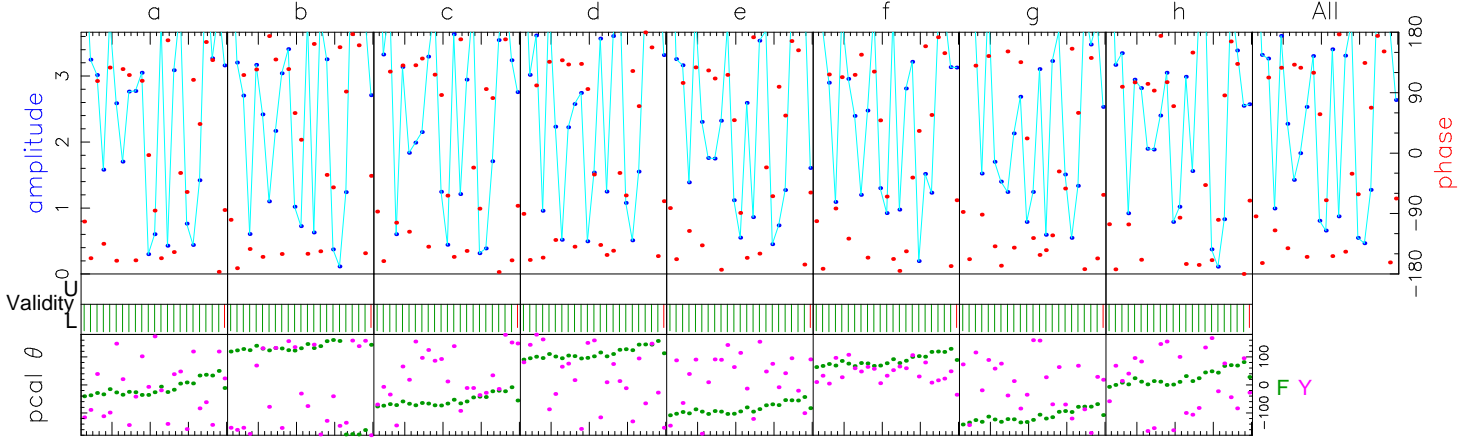
ph/seg (deg) 43.8 46.8 Theor. Amplitude 0.220 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 60.3 81.7 Search (1024X32) 0.186 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 20.9 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 37.2 48.2 Inc. seg. avg. 0.217 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 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -739.480 1128.643 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0577/FY..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/FY.W.322.zpwwct



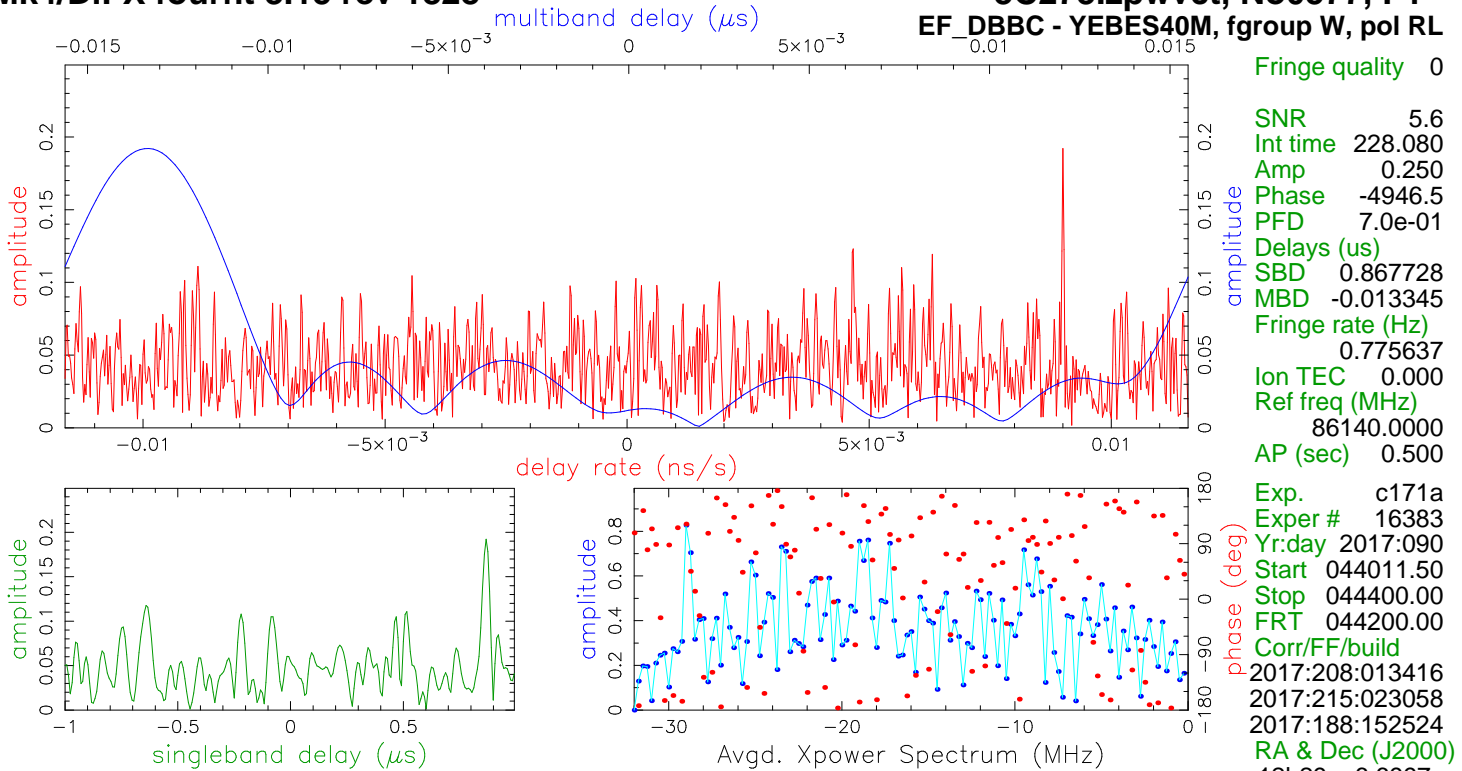
Fringe quality 7  
SNR 35.7  
Int time 228.080  
Amp 1.222  
Phase 7.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.030679  
MBD 0.000310  
Fringe rate (Hz) 0.030691  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 044011.50  
Stop 044400.00  
FRT 044200.00  
Corr/FF/build  
2017:208:013416  
2017:215:023057  
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

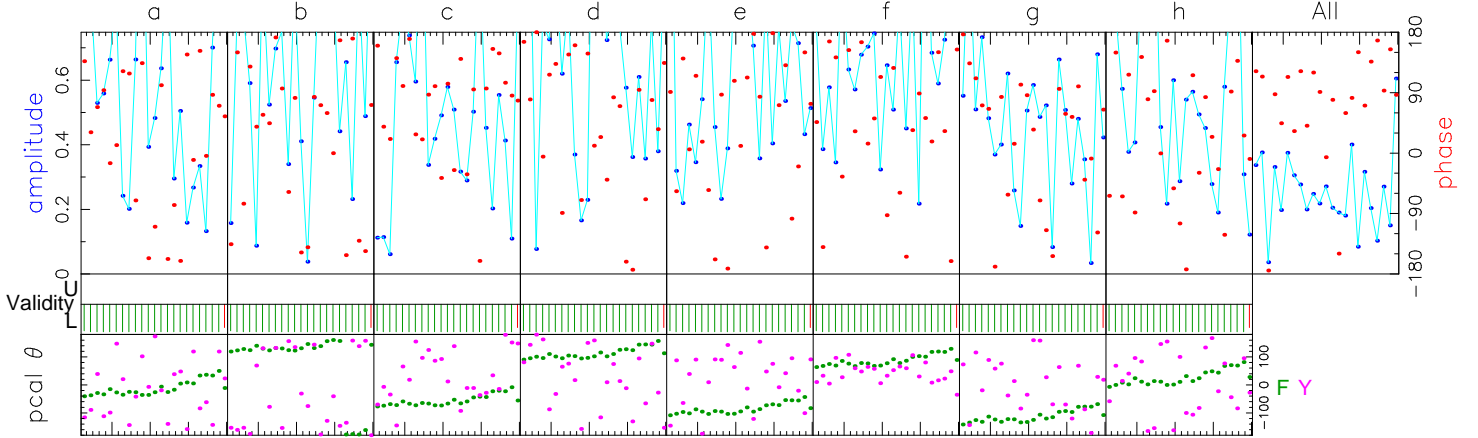


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457			
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
F:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
F:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
F	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
Group delay (usec)(sbd)		-3.10730165121E+03		Apriori delay (usec)	-3.10727071167E+03		Resid mbdelay (usec)	3.10459E-04	+/-	6.1E-05	
Sband delay (usec)		-3.10730139067E+03		Apriori clock (usec)	2.4534796E+01		Resid sbdelay (usec)	-3.06790E-02	+/-	4.8E-04	
Phase delay (usec)		-3.10727071724E+03		Apriori clockrate (us/s)	-4.8640009E-07		Resid phdelay (usec)	-5.57040E-06	+/-	1.0E-07	
Delay rate (us/s)		1.31133156549E-01		Apriori rate (us/s)	1.31132800252E-01		Resid rate (us/s)	3.56296E-07	+/-	7.9E-10	
Total phase (deg)		-29.9		Apriori accel (us/s/s)	1.71181766968E-05		Resid phase (deg)	7.3	+/-	3.2	
RMS	72.6	7.7		Amplitude	1.222 +/- 0.034		Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	154.1	13.4		Search (1024X32)	1.163		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	11.1	4.5		Interp.	0.000		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	5.8	7.9		Inc. seg. avg.	2.476		Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012	
amp/frq (%)				Inc. frq. avg.	1.235		Data rate(Mb/s): 1024	ion window (TEC)	0.00	0.00	
							nlags: 128	t_cohere infinite			



Fringe quality 0  
 SNR 5.6  
 Int time 228.080  
 Amp 0.250  
 Phase -4946.5  
 PFD 7.0e-01  
 Delays (us)  
 SBD 0.867728  
 MBD -0.013345  
 Fringe rate (Hz) 0.775637  
 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  
 2017:215:023058  
 2017:188:152524  
 RA & Dec (J2000)  
 12h29m 6.699s  
 +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	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
F	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
F	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)	-3.10640905676E+03		Apriori delay (usec)		-3.10727071167E+03		Resid mbdelay (usec)		-1.33451E-02	+/- 3.9E-04
Sband delay (usec)	-3.10640298317E+03		Apriori clock (usec)		2.4534796E+01		Resid sbdelay (usec)		8.67728E-01	+/- 3.1E-03
Phase delay (usec)	-3.10727070866E+03		Apriori clockrate (us/s)		-4.8640009E-07		Resid phdelay (usec)		3.01441E-06	+/- 6.6E-07
Delay rate (us/s)	1.31141804626E-01		Apriori rate (us/s)		1.31132800252E-01		Resid rate (us/s)		9.00437E-06	+/- 5.0E-09
Total phase (deg)	-4983.7		Apriori accel (us/s/s)		1.71181766968E-05		Resid phase (deg)		-4946.5	+/- 20.4

ph/seg (deg) 51.4 49.0 Theor. Amplitude 0.250 +/- 0.044 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 68.2 85.4 Search (1024X32) 0.186 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 11.0 28.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 20.5 50.4 Inc. seg. avg. 0.241 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 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -739.480 1128.643 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00