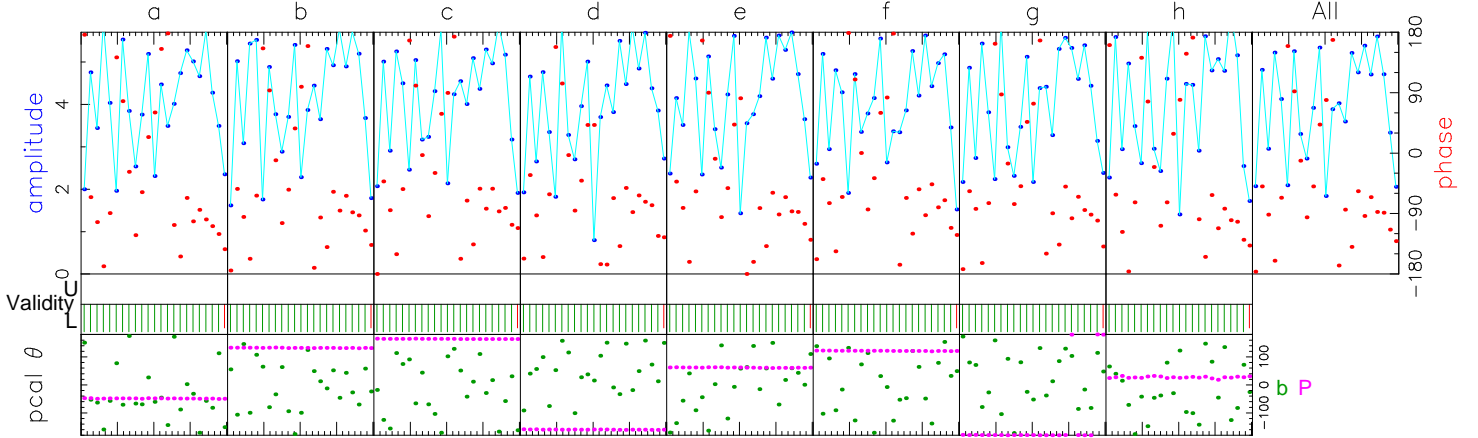
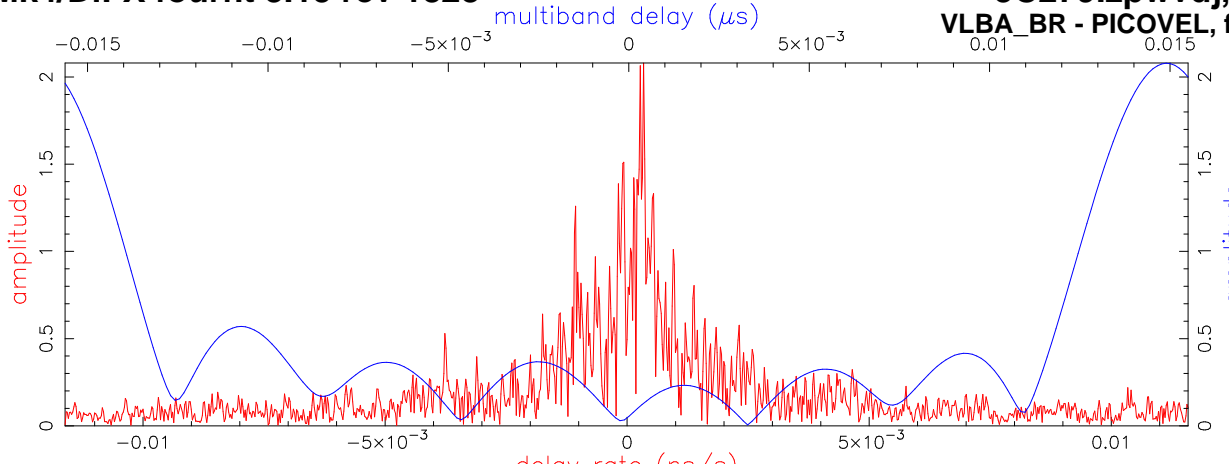


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

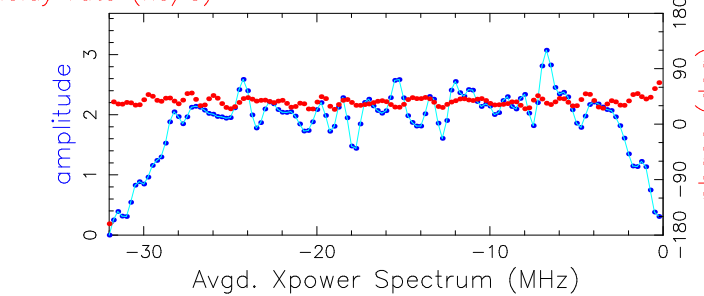
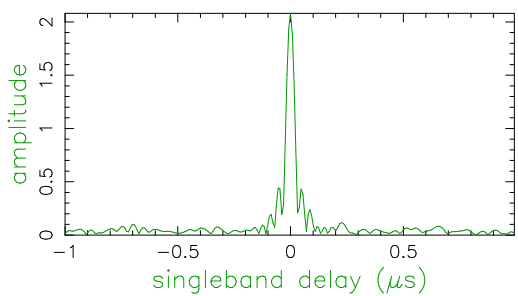


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-108.7	-95.1	-87.9	-88.9	-92.3	-83.2	-95.6	-111.2	Phase	-95.2
	1.9	2.0	1.9	1.9	2.0	1.9	1.8	1.7	Ampl.	1.9
	124.6	124.7	124.7	124.6	124.5	124.6	124.4	124.5	Sbd box	124.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	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	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)		2.13402098189E+03		Apriori delay (usec)	2.13405558189E+03		Resid mbdelay (usec)	-3.34999E-03	+/-	3.8E-05
Sband delay (usec)		2.13402106139E+03		Apriori clock (usec)	-4.8824949E+00		Resid sbdelay (usec)	-3.45205E-02	+/-	3.0E-04
Phase delay (usec)		2.13405557882E+03		Apriori clockrate (us/s)	-5.0937320E-07		Resid phdelay (usec)	-3.06892E-06	+/-	6.5E-08
Delay rate (us/s)		1.91889876227E+00		Apriori rate (us/s)	1.91889850011E+00		Resid rate (us/s)	2.62162E-07	+/-	4.7E-10
Total phase (deg)			381.4	Apriori accel (us/s/s)	-1.30117807678E-05		Resid phase (deg)	84.8	+/-	2.0

ph/seg (deg) 76.4 4.8 Theor. Amplitude 1.902 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 125.2 8.4 Search (1024X32) 1.671 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.7 2.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.6 5.0 Inc. seg. avg. 3.953 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 125.4 el 20.4 pa -33.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11055.800 1349.553 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bP.W.25.zpwvdj simultaneous interpolator

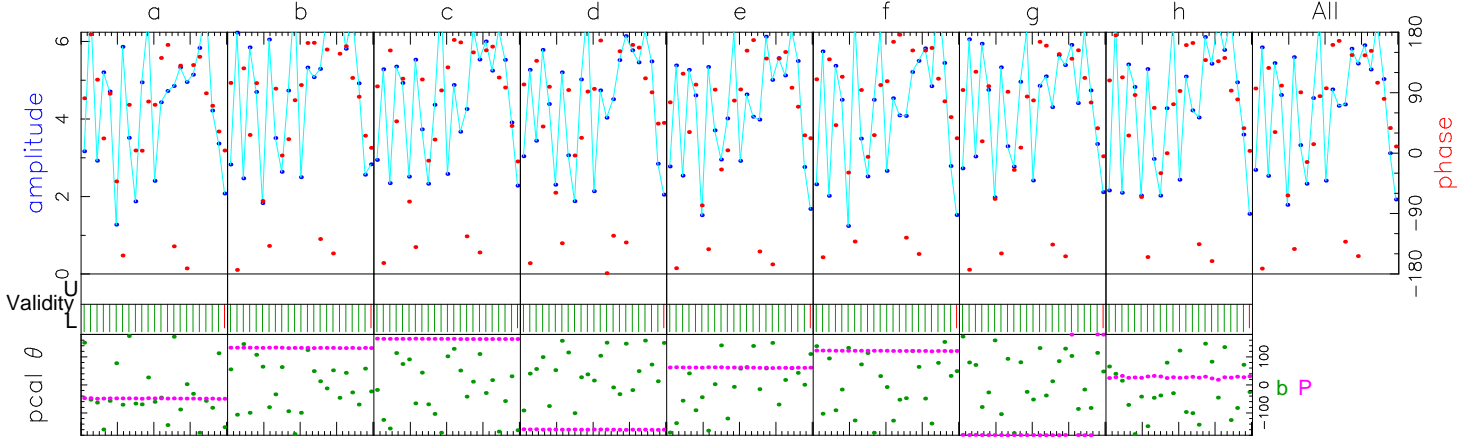


Fringe quality 5  
SNR 62.3  
Int time 239.680  
Amp 2.081  
Phase 126.1  
PFD 0.0e+00  
Delays (us)  
SBD -0.000716  
MBD 0.014902  
Fringe rate (Hz) 0.028489  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024417  
2017:188:152524  
RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"

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

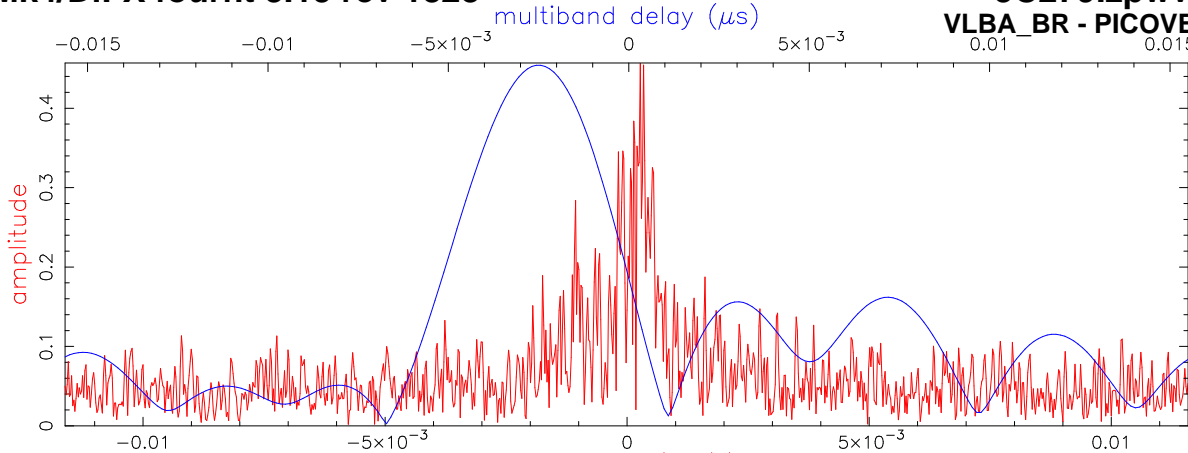


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	126.1	126.1
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	2.1	2.1
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	128.9	128.9
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	2.1	2.1
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	128.9	128.9
b	1000	1000	1000	1000	1000	1000	1000	1000	2.1	2.1
P	1000	1000	1000	1000	1000	1000	1000	1000	128.9	128.9
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	APs used	APs used
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC freqs	PC freqs
									PC phase	PC phase
									ManI PC	ManI PC
									PC amp	PC amp
									Chan ids	Chan ids
									Tracks	Tracks
									Tracks	Tracks

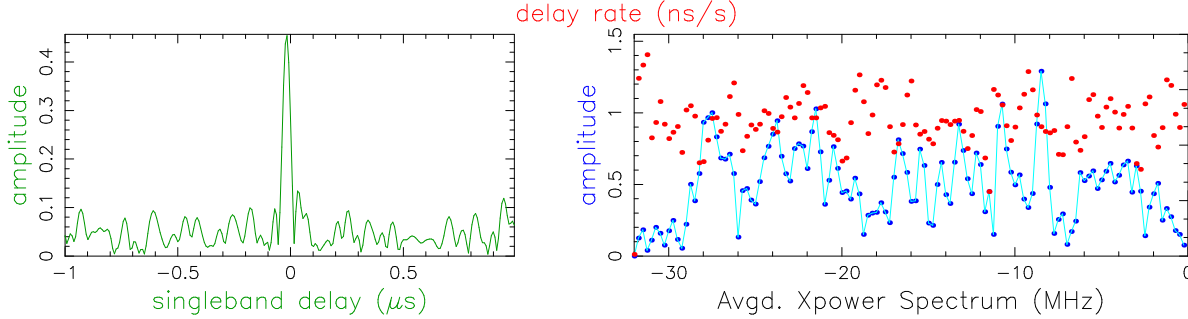
Group delay (usec)(sbd) 2.13407048432E+03 Apriori delay (usec) 2.1340558189E+03 Resid mbdelay (usec) 1.49024E-02 +/- 3.5E-05  
 Sband delay (usec) 2.13405486539E+03 Apriori clock (usec) -4.8824949E+00 Resid sbdelay (usec) -7.16500E-04 +/- 2.8E-04  
 Phase delay (usec) 2.13405558596E+03 Apriori clockrate (us/s) -5.0937320E-07 Resid phdelay (usec) 4.06620E-06 +/- 5.9E-08  
 Delay rate (us/s) 1.9188983084E+00 Apriori rate (us/s) 1.91889850011E+00 Resid rate (us/s) 3.30726E-07 +/- 4.3E-10  
 Total phase (deg) 62.7 Apriori accel (us/s/s) -1.30117807678E-05 Resid phase (deg) 126.1 +/- 1.8

ph/seg (deg) 75.7 4.4 Search (1024X32) 1.945 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 131.2 7.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 9.2 2.6 Inc. seg. avg. 4.360 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.2 4.5 Inc. frq. avg. 2.098 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 125.4 el 20.4 pa -33.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11055.800 1349.553 ion window (TEC) 0.00 0.00

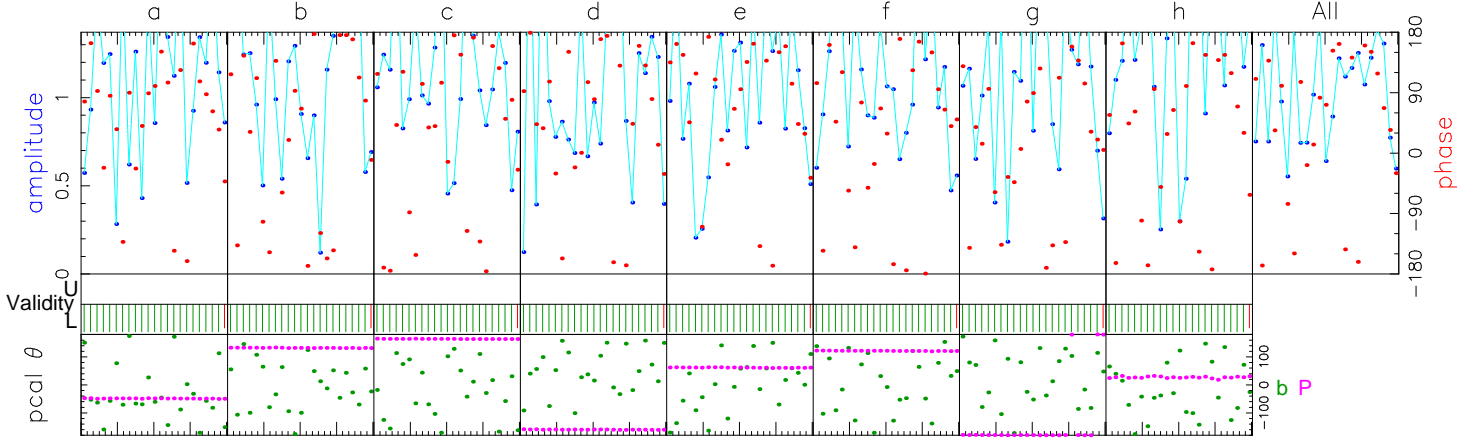




Fringe quality 9  
SNR 13.7  
Int time 239.680  
Amp 0.457  
Phase 127.2  
PFD 2.0e-34  
Delays (us)  
SBD -0.017698  
MBD -0.002482  
Fringe rate (Hz) 0.028493  
Ion TEC 0.000  
Ref freq (MHz) 86140.000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024419  
2017:188:152524  
RA & Dec (J2000) 12h56m11.1666s  
-5°47'21.525"

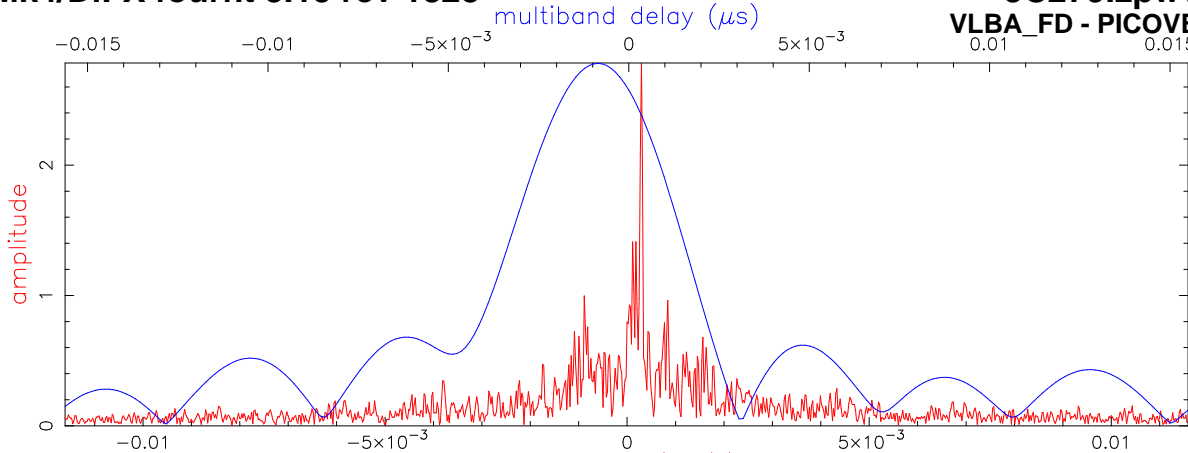


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

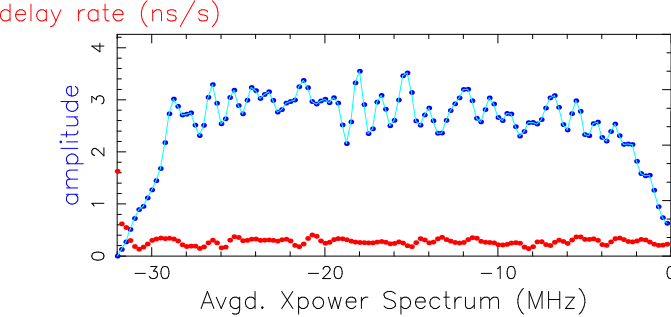
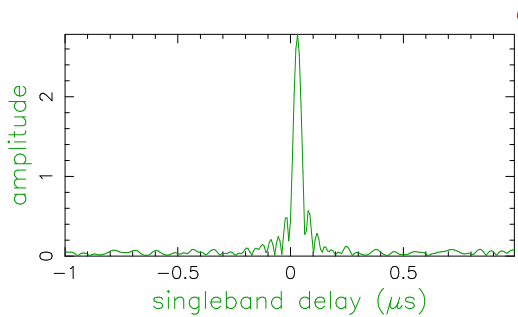


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	126.7	126.7
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.6	0.5
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	126.6	126.7
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.4	0.3
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	118.0	131.0
b	1000	1000	1000	1000	1000	1000	1000	1000	0.5	0.5
P	1000	1000	1000	1000	1000	1000	1000	1000	126.4	126.7
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	0.4	0.5
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	126.4	126.7
Group delay (usec)(sbd)	2.13405310019E+03		Apriori delay (usec)		2.1340558189E+03		Resid mbdelay (usec)		-2.48170E-03	+/- 1.6E-04
Sband delay (usec)	2.13403788439E+03		Apriori clock (usec)		-4.8824949E+00		Resid sbdelay (usec)		-1.76975E-02	+/- 1.3E-03
Phase delay (usec)	2.13405558599E+03		Apriori clockrate (us/s)		-5.0937320E-07		Resid phdelay (usec)		4.10321E-06	+/- 2.7E-07
Delay rate (us/s)	1.91889883089E+00		Apriori rate (us/s)		1.91889850011E+00		Resid rate (us/s)		3.30775E-07	+/- 1.9E-09
Total phase (deg)	63.9		Apriori accel (us/s/s)		-1.30117807678E-05		Resid phase (deg)		127.2	+/- 8.4
ph/seg (deg)	RMS 77.1	Theor. 20.1	Amplitude 0.457 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	142.4	35.1	Search (1024X32) 0.420	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	18.1	11.8	Inc. seg. avg. 0.980	Bits/sample: 2x2		Data rate(Mb/s): 1024		dr window (ns/s)	-0.012	0.012
amp/frq (%)	18.0	20.7	Inc. frq. avg. 0.464	Sample rate(MSamp/s): 64		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00
b: az 125.4 el 20.4 pa -33.2	P: az 250.4 el 15.1 pa 49.1		u,v (fr/asec) -11055.800 1349.553						simultaneous interpolator	
Control file: ../cf_1234	Input file: /Exps/c171a/gmva/1234/No0584/bP..zpwvdj		Output file: /Exps/c171a/gmva/1234/No0584/bP.W.28.zpwvdj							

Validity  
pcal θ  
b P

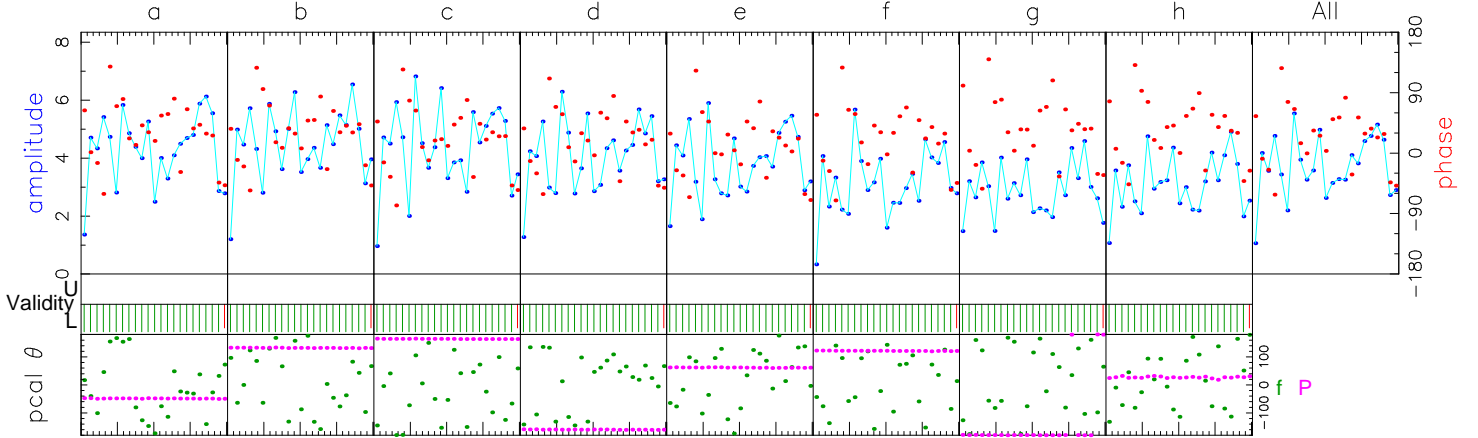


Fringe quality 5  
SNR 83.3  
Int time 239.674  
Amp 2.784  
Phase -157.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.030497  
MBD -0.000857  
Fringe rate (Hz) 0.025208  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024442  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

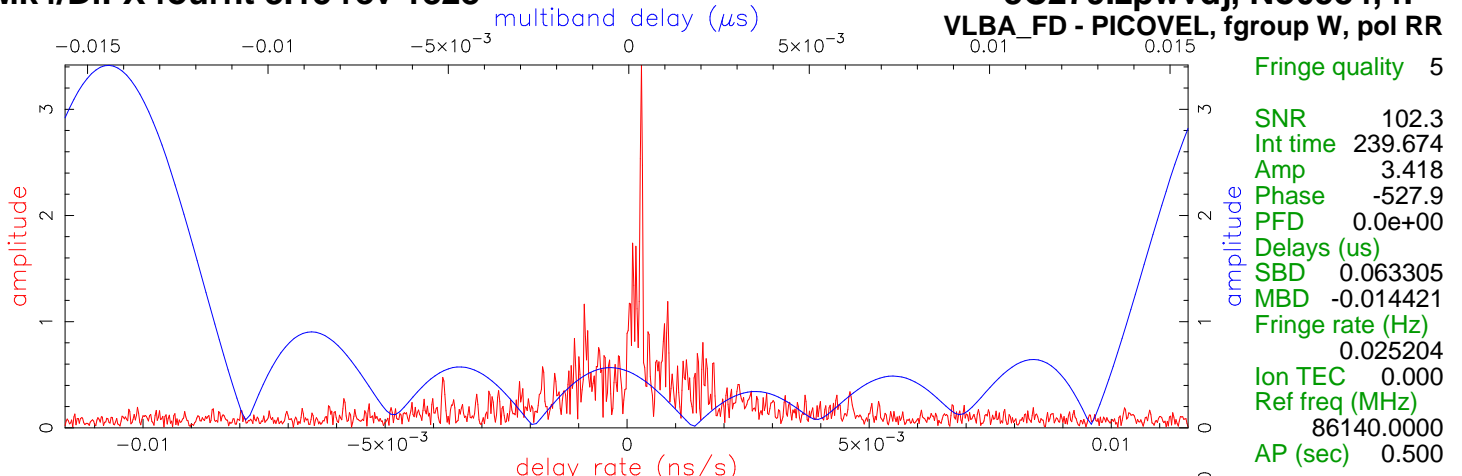
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		8.61545593541E+03			8.61542554251E+03			-8.57104E-04		+/- 2.6E-05
Sband delay (usec)		8.61545603901E+03			-1.1720484E+00			3.04965E-02		+/- 2.1E-04
Phase delay (usec)		8.61542554324E+03			-9.4280757E-07			7.29961E-07		+/- 4.4E-08
Delay rate (us/s)		1.87423512244E+00			1.87423482980E+00			2.92636E-07		+/- 3.2E-10
Total phase (deg)			-73.8		-4.47383623235E-05			-157.4		+/- 1.4
RMS		Theor.	Amplitude	2.784 +/- 0.033						
ph/seg (deg)	44.9	3.3	Search (1024X32)	2.755						
amp/seg (%)	50.2	5.8	Interp.	0.000						
ph/frq (deg)	9.5	1.9	Inc. seg. avg.	3.719						
amp/frq (%)	16.0	3.4	Inc. frq. avg.	2.808						
f: az 132.0 el 40.8 pa -39.8		P: az 250.4 el 15.1 pa 49.1		u,v (fr/asec) -10822.211 -465.080						

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fP.W.49.zpwwdj





Fringe quality 5

SNR 102.3

Int time 239.674

Amp 3.418

Phase -527.9

PFD 0.0e+00

Delays (us)

SBD 0.063305

MBD -0.014421

Fringe rate (Hz) 0.025204

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

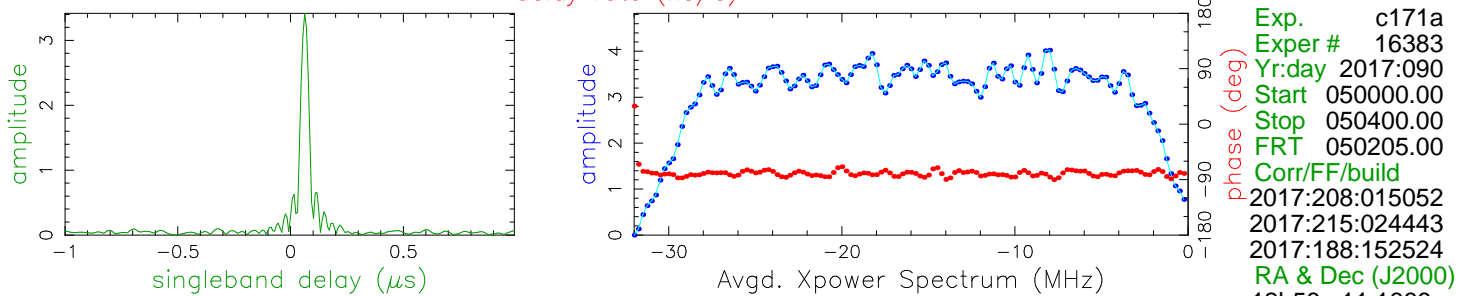
Corr/FF/build

2017:208:015052

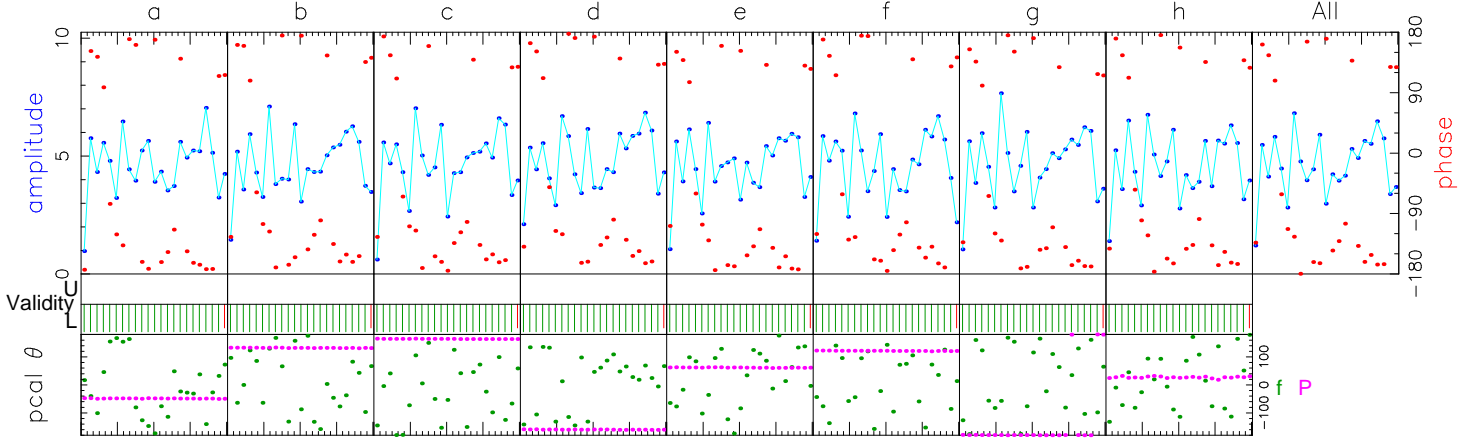
2017:215:024443

2017:188:152524

RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



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



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-176.7	-161.0	-162.4	-165.1	-174.5	-164.6	-171.9	-167.4	Phase	-167.9
3.5	3.4	3.4	3.6	3.3	3.5	3.4	3.3	Ampl.	3.4
136.9	137.3	137.0	137.0	137.1	137.0	137.1	137.3	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	
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	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	8.61547362166E+03	Apriori delay (usec)	8.61542554251E+03	Resid mbdelay (usec)	-1.44209E-02	+/-	2.1E-05		
Sband delay (usec)	8.61548884751E+03	Apriori clock (usec)	-1.1720484E+00	Resid sbdelay (usec)	6.33050E-02	+/-	1.7E-04		
Phase delay (usec)	8.61542553710E+03	Apriori clockrate (us/s)	-9.4280757E-07	Resid phdelay (usec)	-5.41478E-06	+/-	3.6E-08		
Delay rate (us/s)	1.87423512240E+00	Apriori rate (us/s)	1.87423482980E+00	Resid rate (us/s)	2.92599E-07	+/-	2.6E-10		
Total phase (deg)	-444.3	Apriori accel (us/s/s)	-4.47383623235E-05	Resid phase (deg)	-527.9	+/-	1.1		

ph/seg (deg) 45.2 2.7 Theor. Amplitude 3.418 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

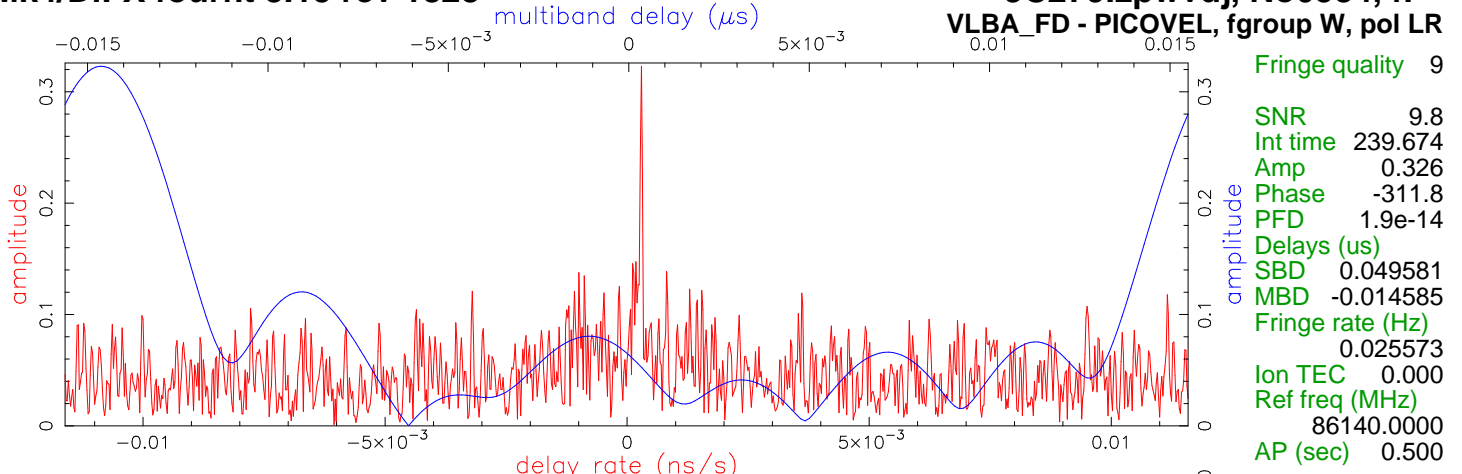
amp/seg (%) 51.0 4.7 Search (1024X32) 3.369 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 6.2 1.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

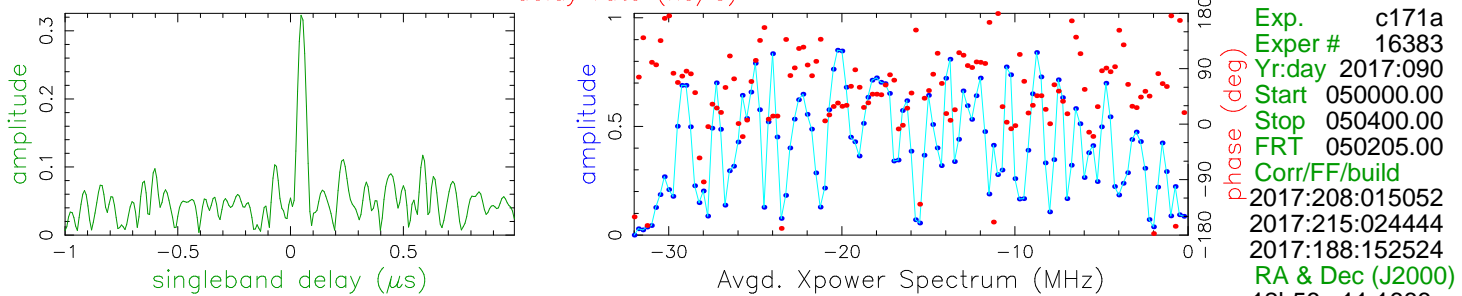
amp/frq (%) 2.3 2.8 Inc. seg. avg. 4.603 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

f: az 132.0 el 40.8 pa -39.8 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10822.211 -465.080 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fP..zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fP.W.50.zpvdj

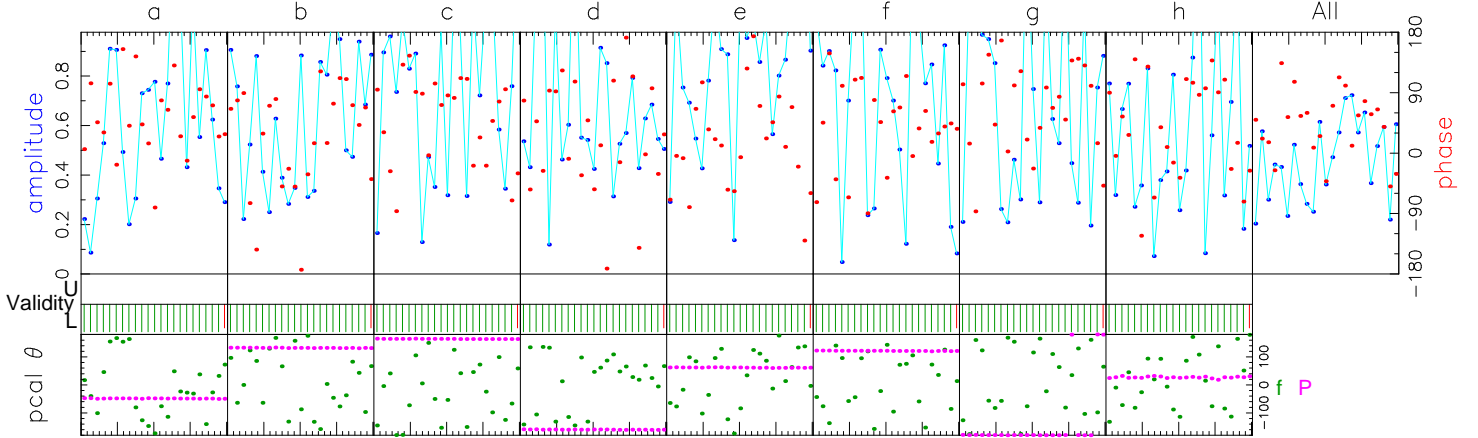


Fringe quality 9  
SNR 9.8  
Int time 239.674  
Amp 0.326  
Phase -311.8  
PFD 1.9e-14  
Delays (us)  
SBD 0.049581  
MBD -0.014585  
Fringe rate (Hz) 0.025573  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



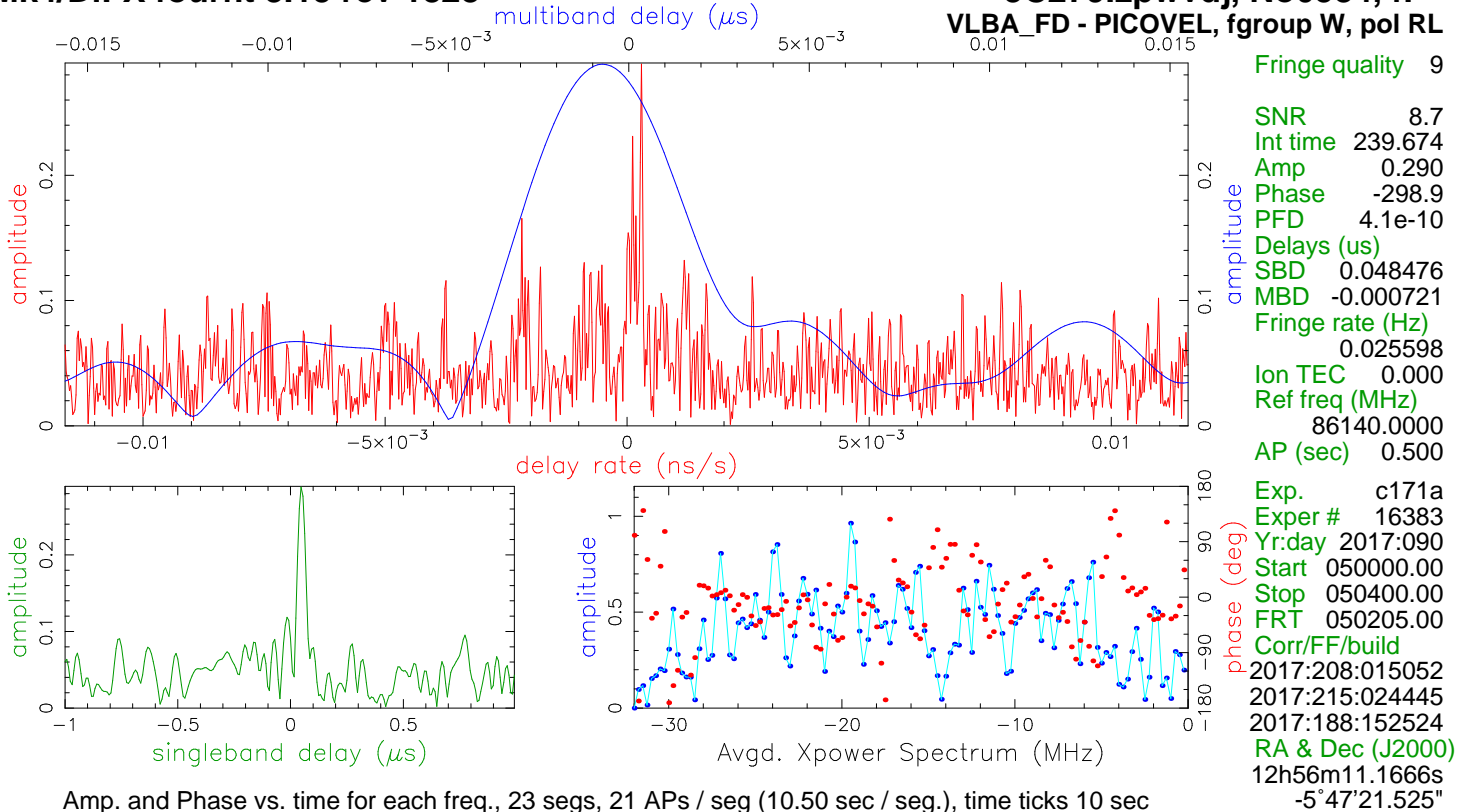
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024444  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5° 47' 21.525"

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

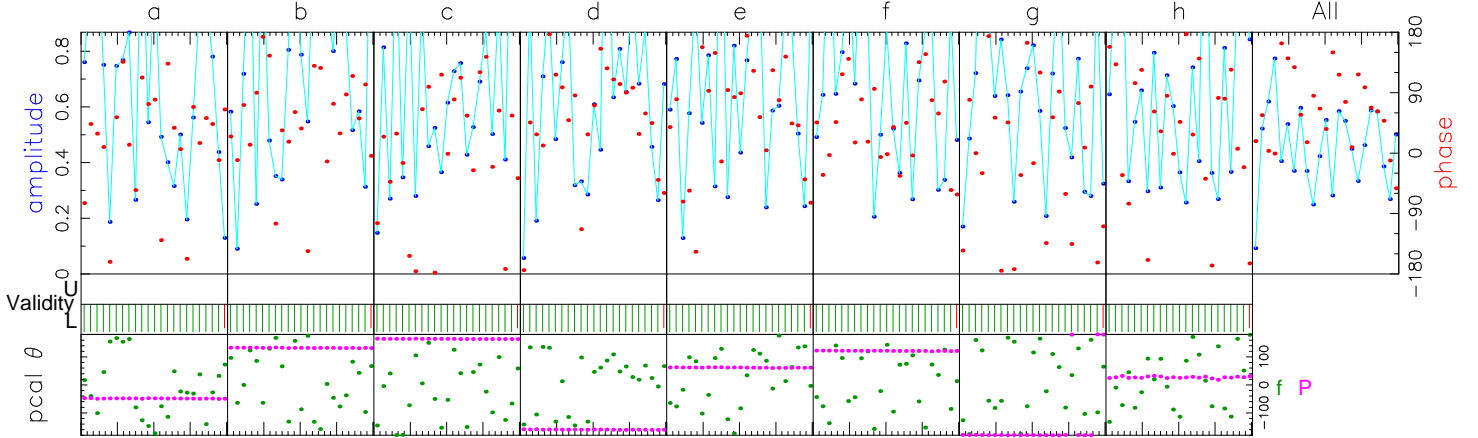


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
Validity	0	0	0	0	0	0	0	0	0	0
pcal θ	100	100	100	100	100	100	100	100	100	100
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
P	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		8.61547345785E+03			8.61542554251E+03				-1.45847E-02	+/- 2.2E-04
Sband delay (usec)		8.61547512351E+03			-1.1720484E+00				4.95810E-02	+/- 1.8E-03
Phase delay (usec)		8.61542554407E+03			-9.4280757E-07				1.55376E-06	+/- 3.8E-07
Delay rate (us/s)		1.87423512668E+00			1.87423482980E+00				2.96876E-07	+/- 2.7E-09
Total phase (deg)			-228.2		-4.47383623235E-05				-311.8	+/- 11.8
RMS	48.3	28.2			0.326 +/- 0.033					
ph/seg (deg)	48.3	28.2			0.321					
amp/seg (%)	63.8	49.2			0.000					
ph/frq (deg)	18.1	16.6			0.410					
amp/frq (%)	13.4	29.0			0.322					
Group delay (usec)(sbd)		8.61547345785E+03			8.61542554251E+03				-1.45847E-02	+/- 2.2E-04
Sband delay (usec)		8.61547512351E+03			-1.1720484E+00				4.95810E-02	+/- 1.8E-03
Phase delay (usec)		8.61542554407E+03			-9.4280757E-07				1.55376E-06	+/- 3.8E-07
Delay rate (us/s)		1.87423512668E+00			1.87423482980E+00				2.96876E-07	+/- 2.7E-09
Total phase (deg)			-228.2		-4.47383623235E-05				-311.8	+/- 11.8
Apriori delay (usec)					0.321					
Apriori clock (usec)					0.000					
Apriori clockrate (us/s)					0.410					
Apriori rate (us/s)					0.322					
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)										
PCal period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.016	0.016
dr window (ns/s)									-0.012	0.012
ion window (TEC)									0.00	0.00
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Sample rate (MSamp/s): 64										
Data rate (Mb/s): 1024										
nlags: 128										
t_cohere infinite										
ion window (TEC)										
simultaneous interpolator										

f: az 132.0 el 40.8 pa -39.8 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10822.211 -465.080  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fP..zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fP.W.51.zpvdj



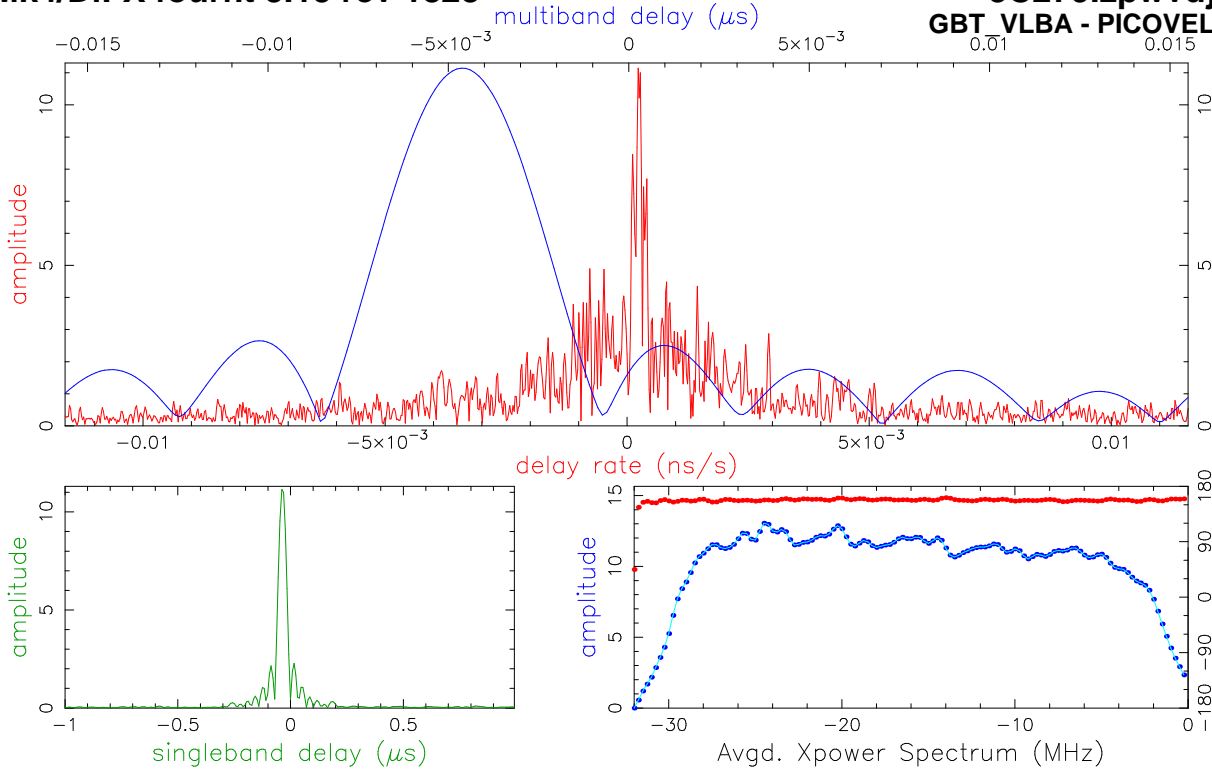
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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)		8.61548732147E+03		Apriori delay (usec)	8.61542554251E+03		Resid mbdelay (usec)	-7.21041E-04		+/- 2.5E-04
Sband delay (usec)		8.61547401851E+03		Apriori clock (usec)	-1.1720484E+00		Resid sbdelay (usec)	4.84760E-02		+/- 2.0E-03
Phase delay (usec)		8.61542554448E+03		Apriori clockrate (us/s)	-9.4280757E-07		Resid phdelay (usec)	1.96932E-06		+/- 4.3E-07
Delay rate (us/s)		1.87423512697E+00		Apriori rate (us/s)	1.87423482980E+00		Resid rate (us/s)	2.97170E-07		+/- 3.1E-09
Total phase (deg)		-215.3		Apriori accel (us/s/s)	-4.47383623235E-05		Resid phase (deg)	-298.9		+/- 13.2
ph/seg (deg)	54.8	31.7		Search (1024X32)	0.285		Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5
amp/seg (%)	77.3	55.3		Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us) -1.000 1.000
ph/frq (deg)	15.9	18.7		Inc. seg. avg.	0.396		Bits/sample: 2x2			SampCntNorm: enabled
amp/frq (%)	37.2	32.6		Inc. frq. avg.	0.283		Sample rate(MSamp/s): 64			mb window (us) -0.016 0.016
							Data rate(Mb/s): 1024			dr window (ns/s) -0.012 0.012
							nlags: 128 t_cohere infinite			ion window (TEC) 0.00 0.00
f: az 132.0 el 40.8 pa -39.8		P: az 250.4 el 15.1 pa 49.1		u,v (fr/asec)	-10822.211 -465.080					simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fP.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fP.W.52.zpvdj



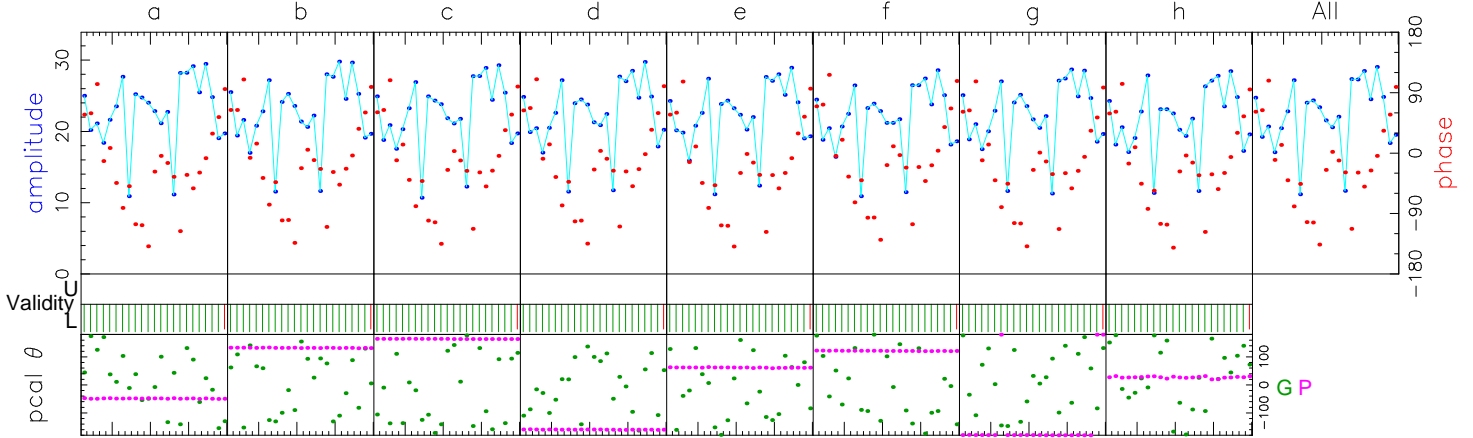


Fringe quality 5

SNR 330.6  
Int time 228.673  
Amp 11.307  
Phase 157.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.035833  
MBD -0.004614  
Fringe rate (Hz) 0.019818  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024704  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

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

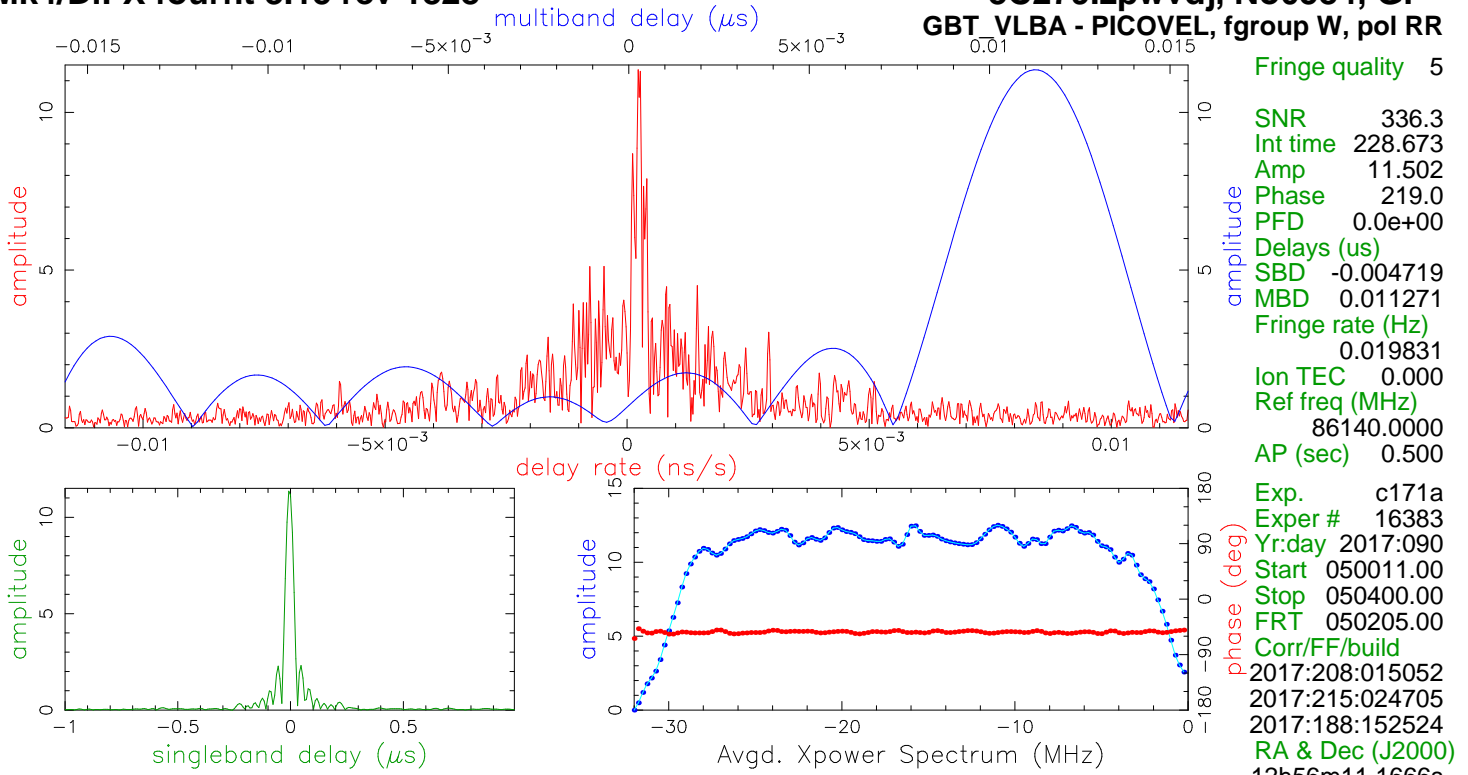


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

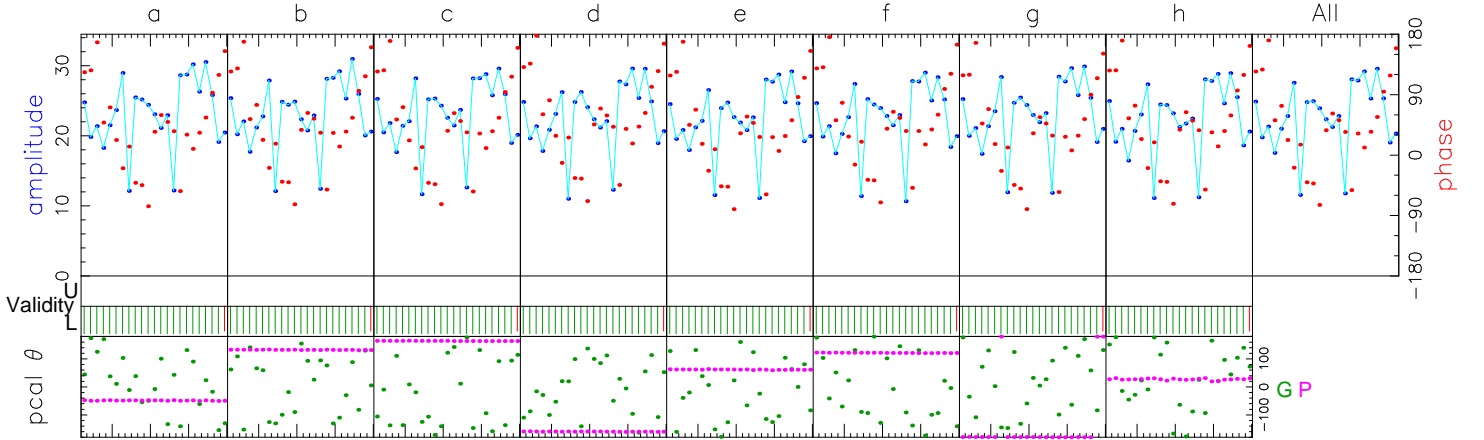
Group delay (usec)(sbd) 9.59380220576E+03 Apriori delay (usec) 9.593806991E+03 Resid mbdelay (usec) -4.61415E-03 +/- 6.6E-06  
 Sband delay (usec) 9.59380223691E+03 Apriori clock (usec) -1.1681038E+01 Resid sbdelay (usec) -3.58330E-02 +/- 5.2E-05  
 Phase delay (usec) 9.59383806919E+03 Apriori clockrate (us/s) -2.8999998E-07 Resid phdelay (usec) -7.23229E-07 +/- 1.1E-08  
 Delay rate (us/s) 1.33880109556E+00 Apriori rate (us/s) 1.33880086549E+00 Resid rate (us/s) 2.30066E-07 +/- 8.5E-11  
 Total phase (deg) 280.7 Apriori accel (us/s/s) -5.12910922499E-05 Resid phase (deg) 157.6 +/- 0.3

RMS Theor. Amplitude 11.307 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 64.6 0.8 Search (1024X32) 10.973 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 104.7 1.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 4.3 0.5 Inc. seg. avg. 22.202 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 (%) 2.5 0.9 Inc. frq. avg. 11.173 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

G: az 165.5 el 44.7 pa -11.0 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -7743.925 575.690 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/GP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/GP.W.181.zpwwdj



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
36.9	40.3	38.4	46.3	33.7	42.1	34.1	40.6	Phase	39.0
11.7	11.5	11.5	11.2	11.1	11.2	11.6	11.2	Ampl.	11.4
128.2	128.5	128.5	128.5	128.3	128.5	128.2	128.6	Sbd box	128.4
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	9.59381809139E+03	Apriori delay (usec)	9.59383806991E+03	Resid mbdelay (usec)	1.12715E-02	+/-	6.5E-06		
Sband delay (usec)	9.59383335041E+03	Apriori clock (usec)	-1.1681038E+01	Resid sbdelay (usec)	-4.71950E-03	+/-	5.1E-05		
Phase delay (usec)	9.59383807117E+03	Apriori clockrate (us/s)	-2.8999998E-07	Resid phdelay (usec)	1.25880E-06	+/-	1.1E-08		
Delay rate (us/s)	1.33880109571E+00	Apriori rate (us/s)	1.33880086549E+00	Resid rate (us/s)	2.30223E-07	+/-	8.3E-11		
Total phase (deg)	342.2	Apriori accel (us/s/s)	-5.12910922499E-05	Resid phase (deg)	219.0	+/-	0.3		

ph/seg (deg) 64.8 0.8 Theor. Amplitude 11.502 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

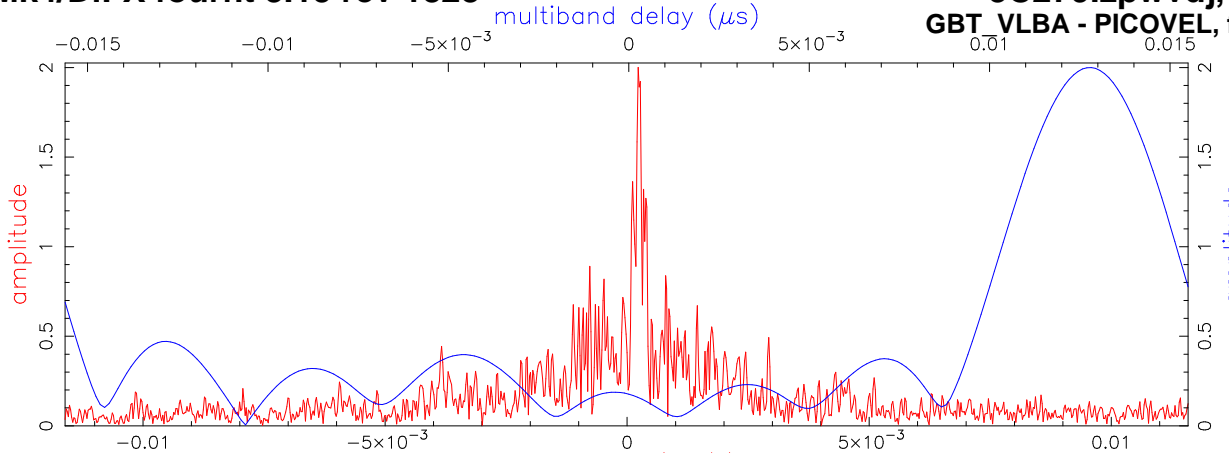
amp/seg (%) 106.0 1.4 Search (1024X32) 10.962 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 4.5 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

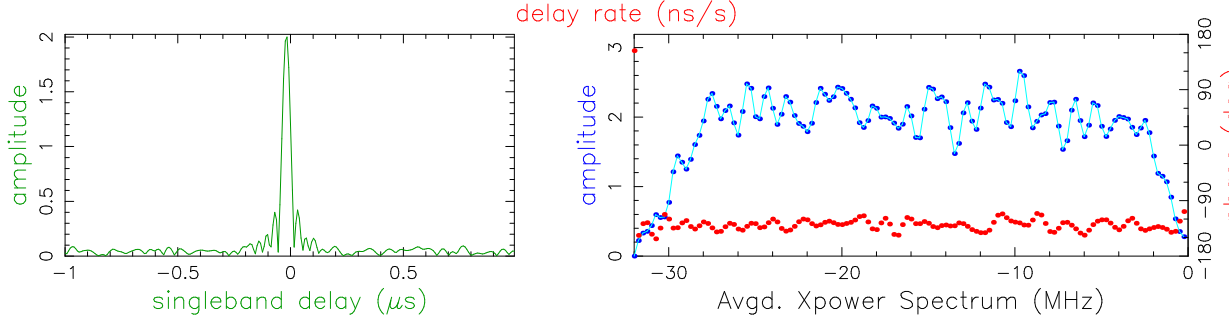
amp/frq (%) 2.1 0.8 Inc. seg. avg. 22.757 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

G: az 165.5 el 44.7 pa -11.0 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -7743.925 575.690 ion window (TEC) 0.00 0.00

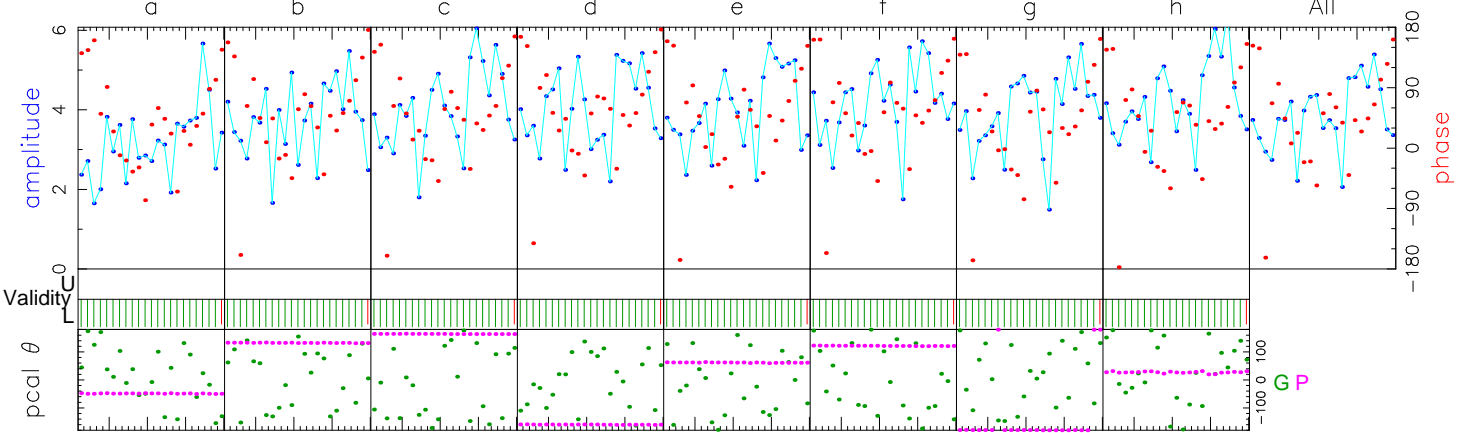
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/GP.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/GP.W.182.zpvdj simultaneous interpolator



Fringe quality 5  
 SNR 59.2  
 Int time 228.673  
 Amp 2.026  
 Phase 231.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.018631  
 MBD 0.012771  
 Fringe rate (Hz) 0.020238  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024706  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



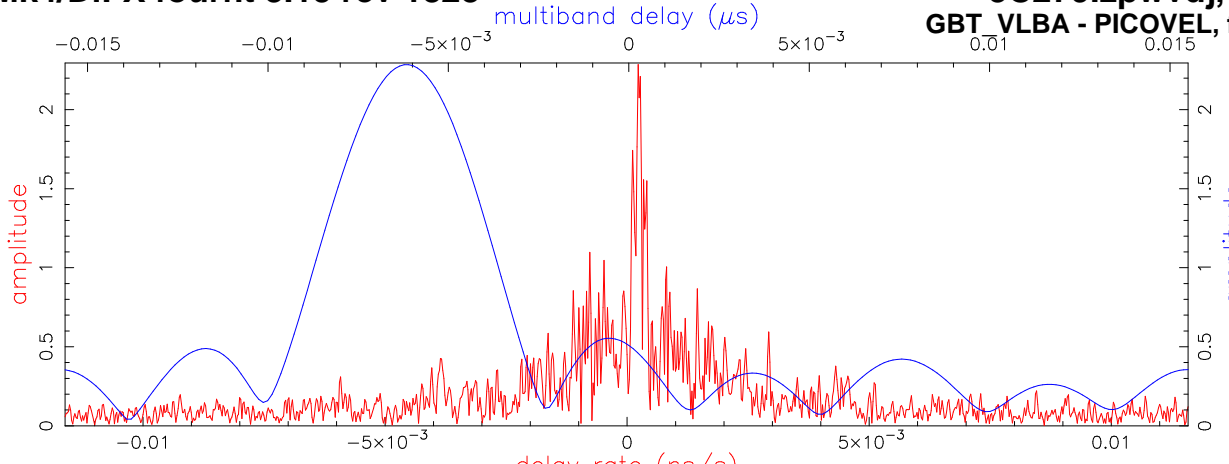
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



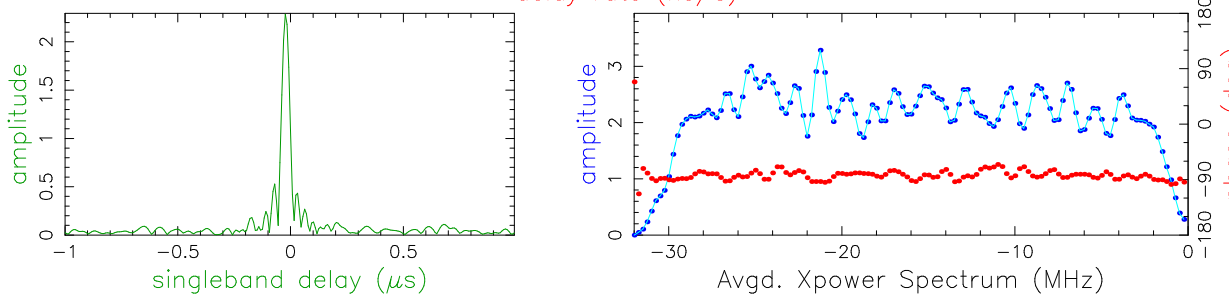
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	37.9	55.3	53.1	59.9	48.5	59.9	43.0	48.4	Phase	51.2
	1.7	2.0	2.2	2.1	2.1	2.1	1.8	2.2	Ampl.	2.0
	126.3	126.7	126.8	126.7	126.5	126.7	126.4	126.9	Sbd box	126.6
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	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)	9.59381959089E+03		Apriori delay (usec)		9.59383806991E+03		Resid mbdelay (usec)		1.27710E-02	+/- 3.7E-05
Sband delay (usec)	9.59381943891E+03		Apriori clock (usec)		-1.1681038E+01		Resid sbdelay (usec)		-1.86310E-02	+/- 2.9E-04
Phase delay (usec)	9.59383807156E+03		Apriori clockrate (us/s)		-2.8999998E-07		Resid phdelay (usec)		1.65055E-06	+/- 6.2E-08
Delay rate (us/s)	1.33880110043E+00		Apriori rate (us/s)		1.33880086549E+00		Resid rate (us/s)		2.34940E-07	+/- 4.7E-10
Total phase (deg)	354.3		Apriori accel (us/s/s)		-5.12910922499E-05		Resid phase (deg)		231.2	+/- 1.9

RMS Theor. Amplitude 2.026 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 65.2 4.6 Search (1024X32) 1.939 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 98.8 8.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 8.5 2.7 Inc. seg. avg. 3.829 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 (%) 8.8 4.8 Inc. frq. avg. 2.014 ion window (TEC) 0.00 0.00

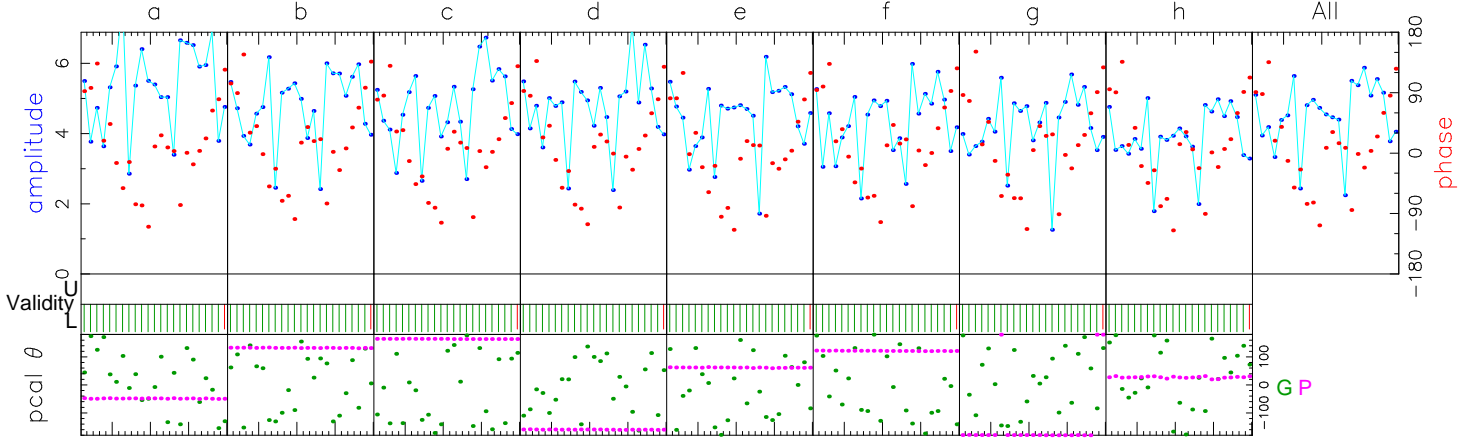
G: az 165.5 el 44.7 pa -11.0 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -7743.925 575.690 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/GP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/GP.W.183.zpwwdj



Fringe quality 5  
SNR 67.1  
Int time 228.673  
Amp 2.295  
Phase 6.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.021683  
MBD -0.006155  
Fringe rate (Hz) 0.019899  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024707  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

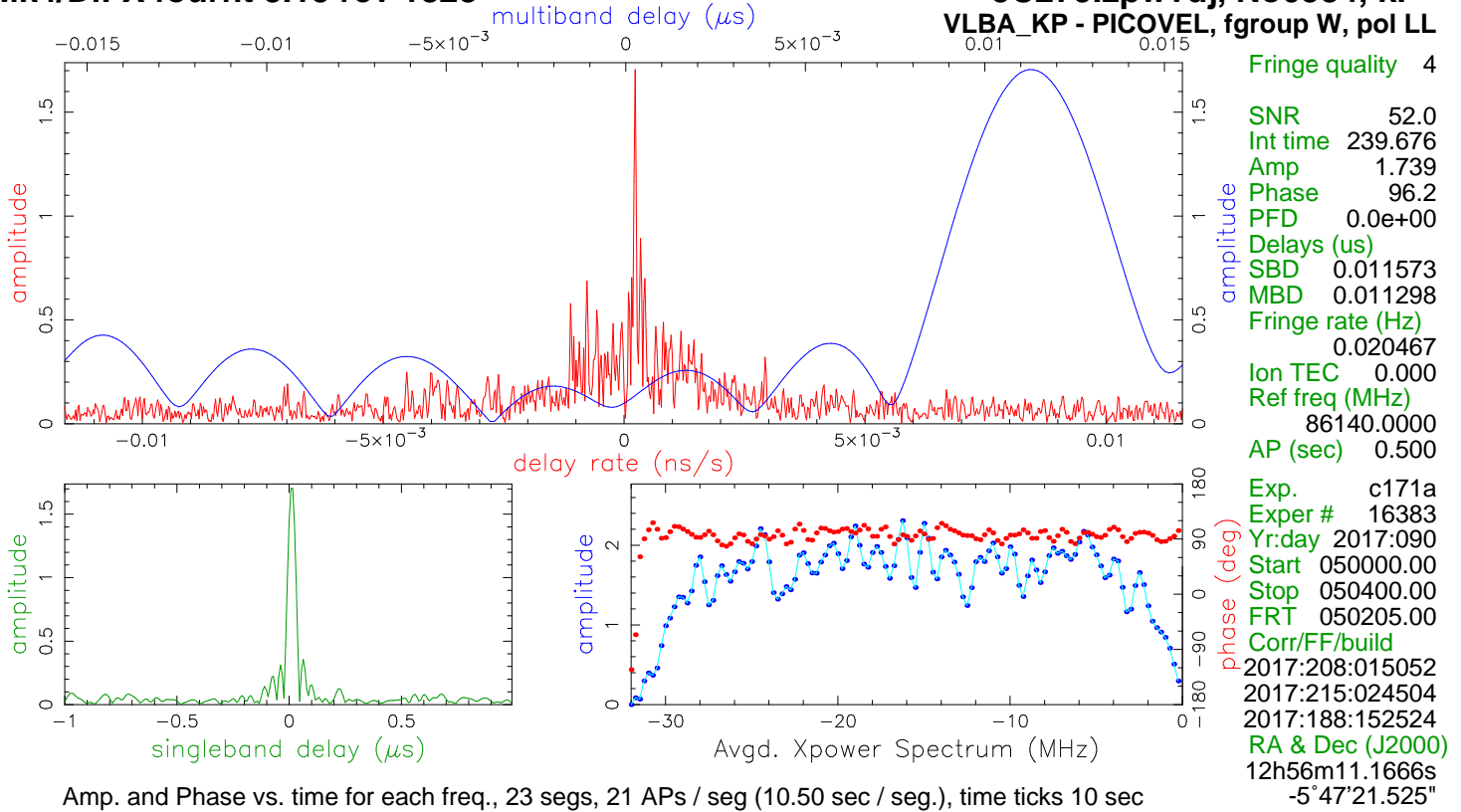


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

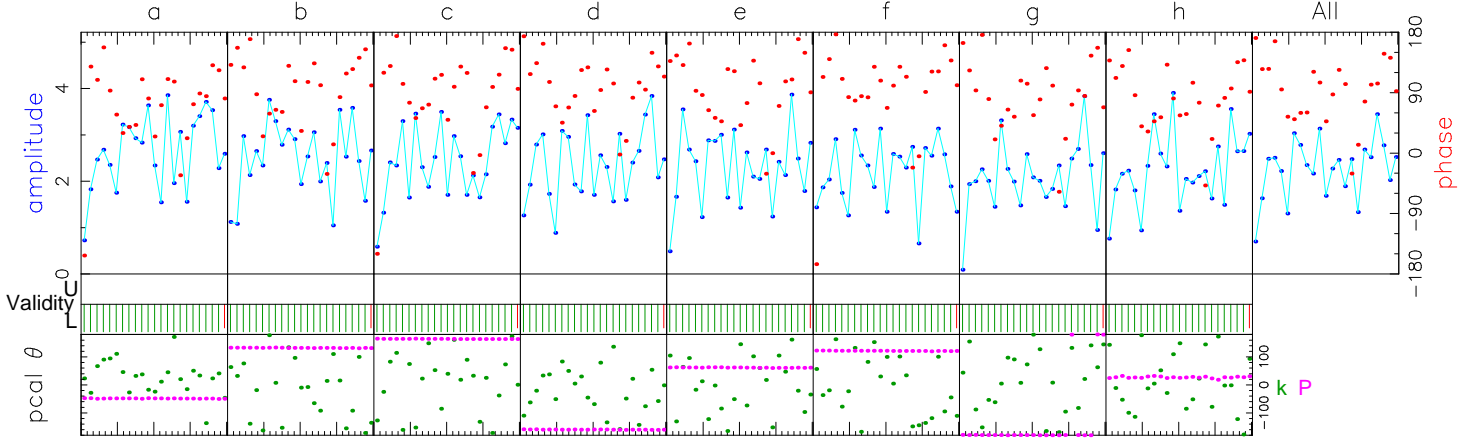


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	126.2
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
G	1000	1000	1000	1000	1000	1000	1000	1000	1000	
P	1000	1000	1000	1000	1000	1000	1000	1000	1000	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		9.59383191458E+03		Apriori delay (usec)	9.59383806991E+03		Resid mbdelay (usec)	-6.15533E-03	+/-	3.2E-05
Sband delay (usec)		9.59381638641E+03		Apriori clock (usec)	-1.1681038E+01		Resid sbdelay (usec)	-2.16835E-02	+/-	2.6E-04
Phase delay (usec)		9.59383807012E+03		Apriori clockrate (us/s)	-2.8999998E-07		Resid phdelay (usec)	2.10966E-07	+/-	5.5E-08
Delay rate (us/s)		1.33880109650E+00		Apriori rate (us/s)	1.33880086549E+00		Resid rate (us/s)	2.31011E-07	+/-	4.2E-10
Total phase (deg)			129.7	Apriori accel (us/s/s)	-5.12910922499E-05		Resid phase (deg)	6.5	+/-	1.7

ph/seg (deg) 64.2 4.1 Search (1024X32) 2.230 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 105.2 7.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 5.0 2.4 Inc. seg. avg. 4.515 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 10.8 4.2 Inc. frq. avg. 2.290 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 G: az 165.5 el 44.7 pa -11.0 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -7743.925 575.690 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/GP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/GP.W.184.zpwwdj simultaneous interpolator



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

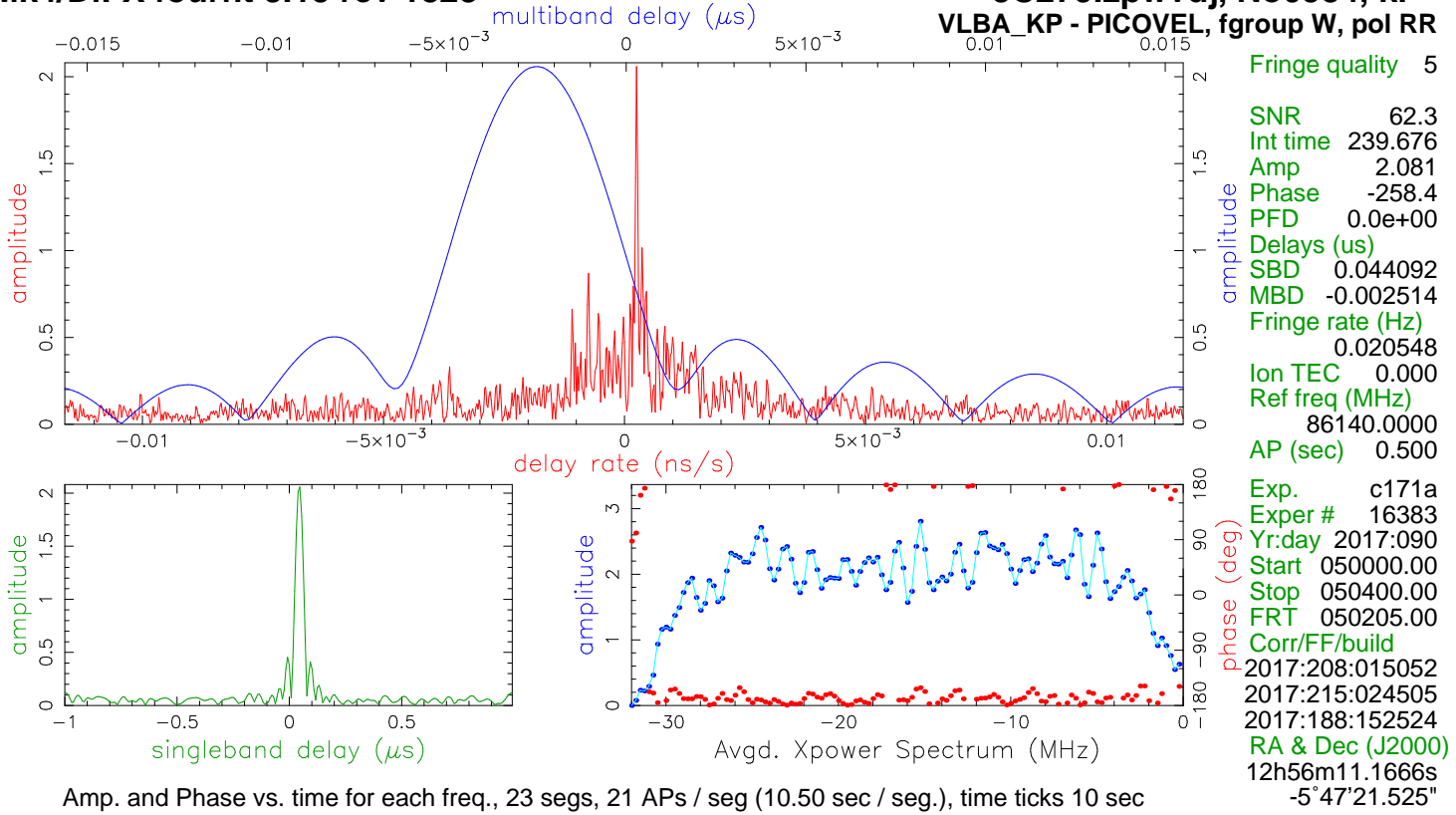


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
82.6	99.1	103.4	103.2	99.3	111.9	84.0	85.8		Phase	96.2
1.9	1.8	1.8	1.8	1.6	1.7	1.5	1.7		Ampl.	1.7
130.6	130.7	130.6	130.2	130.7	130.3	130.2	130.5		Sbd box	130.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480		APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
k	1000	1000	1000	1000	1000	1000	1000		PC amp	
P	1000	1000	1000	1000	1000	1000	1000			
k	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)	6.88909713766E+03		Apriori delay (usec)	6.88908583981E+03		Resid mbdelay (usec)	1.12978E-02	+/-	4.2E-05	
Sband delay (usec)	6.88909741281E+03		Apriori clock (usec)	-3.4831097E+00		Resid sbdelay (usec)	1.15730E-02	+/-	3.3E-04	
Phase delay (usec)	6.88908584291E+03		Apriori clockrate (us/s)	-5.2401914E-07		Resid phdelay (usec)	3.10289E-06	+/-	7.1E-08	
Delay rate (us/s)	2.00258032140E+00		Apriori rate (us/s)	2.00258008381E+00		Resid rate (us/s)	2.37597E-07	+/-	5.1E-10	
Total phase (deg)		183.0	Apriori accel (us/s/s)	-3.57988313975E-05		Resid phase (deg)	96.2	+/-	2.2	

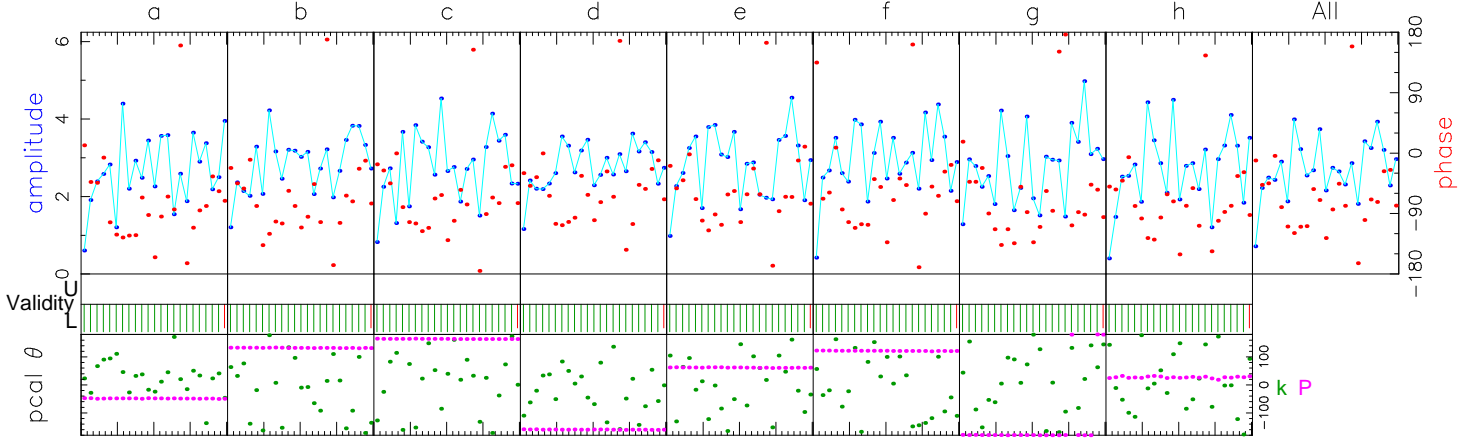
RMS Theor. Amplitude 1.739 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 47.2 5.3 Search (1024X32) 1.527 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 47.5 9.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 11.6 3.1 Inc. seg. avg. 2.270 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 (%) 7.3 5.4 Inc. frq. avg. 1.730 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.69.zpwwdj



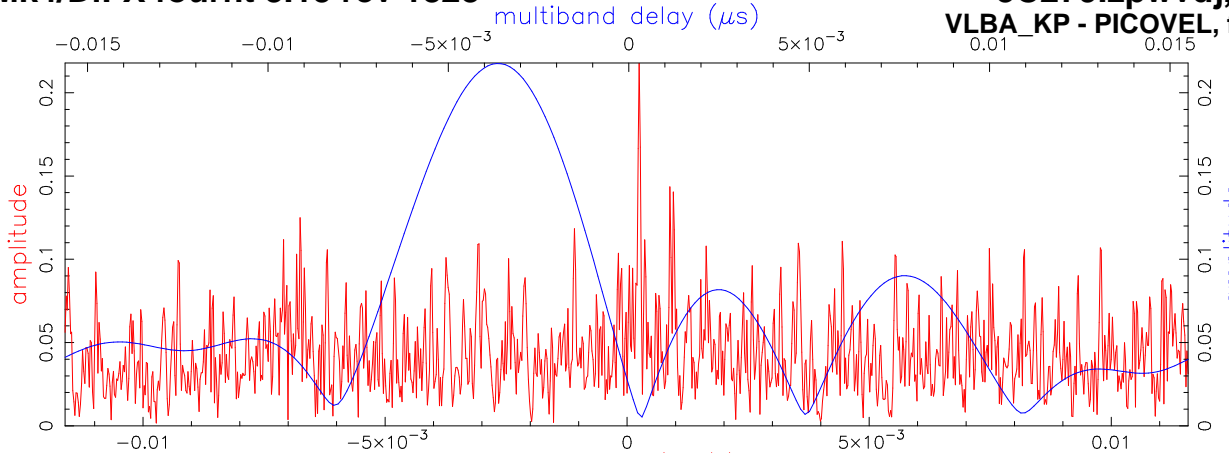


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

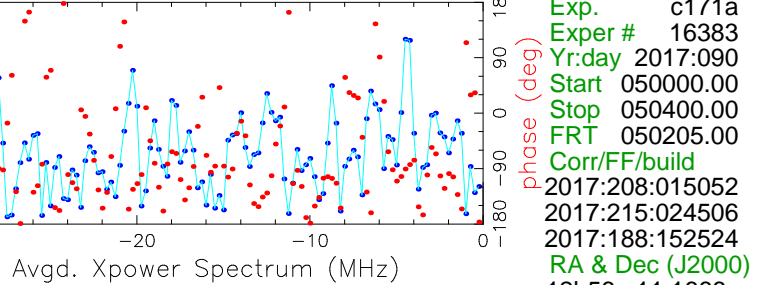
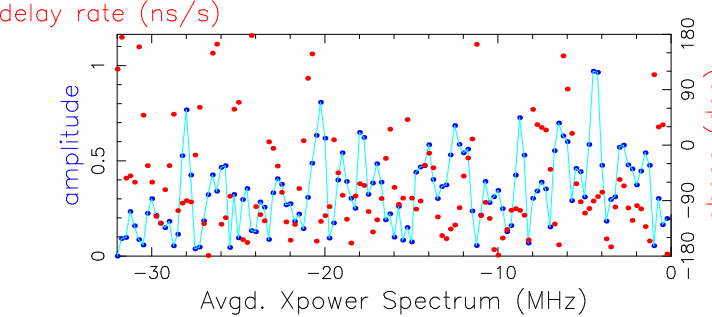
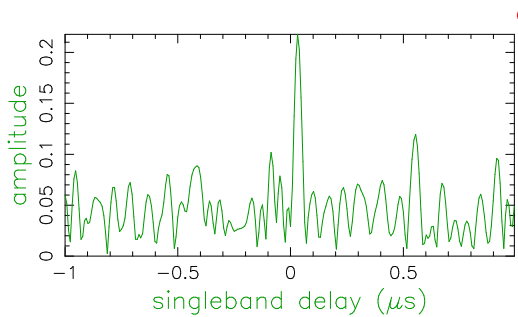


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480				
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000				
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000				
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
k	1000	1000	1000	1000	1000	1000	1000	1000				
P	1000	1000	1000	1000	1000	1000	1000	1000				
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR				
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR				
Group delay (usec)(sbd)	6.88911457630E+03		Apriori delay (usec)		6.88908583981E+03		Resid mbdelay (usec)		-2.51351E-03	+/- 3.5E-05		
Sband delay (usec)	6.88912993131E+03		Apriori clock (usec)		-3.4831097E+00		Resid sbdelay (usec)		4.40915E-02	+/- 2.8E-04		
Phase delay (usec)	6.88908583728E+03		Apriori clockrate (us/s)		-5.2401914E-07		Resid phdelay (usec)		-2.52936E-06	+/- 5.9E-08		
Delay rate (us/s)	2.00258032234E+00		Apriori rate (us/s)		2.00258008381E+00		Resid rate (us/s)		2.38538E-07	+/- 4.3E-10		
Total phase (deg)			Apriori accel (us/s/s)		-3.57988313975E-05		Resid phase (deg)		-258.4	+/- 1.8		
RMS	46.4	4.4	Amplitude		2.081 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	46.4	4.4	Search (1024X32)		1.861		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	46.3	7.7	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016	
ph/frq (deg)	9.7	2.6	Inc. seg. avg.		2.704		Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012 0.012	
amp/frq (%)	2.4	4.5	Inc. frq. avg.		2.080		Data rate(Mb/s): 1024		nlags: 128	t_cohere infinite	ion window (TEC)	0.00 0.00

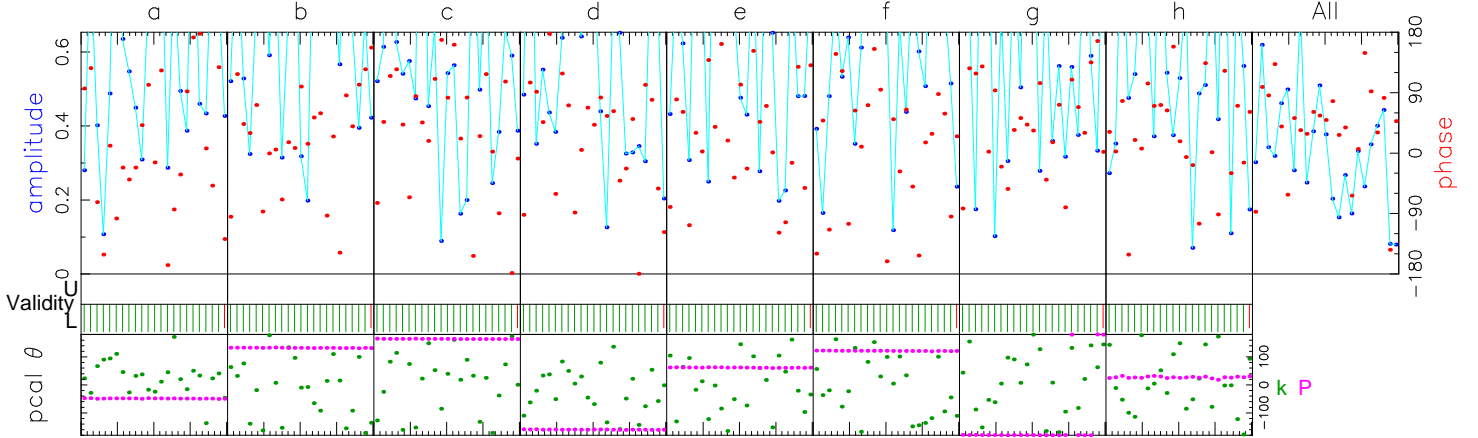
k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.70.zpwvdj



Fringe quality 0  
SNR 6.5  
Int time 239.676  
Amp 0.218  
Phase -127.0  
PFD 4.9e-03  
Delays (us)  
SBD 0.032136  
MBD -0.003606  
Fringe rate (Hz)  
0.020548  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024506  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

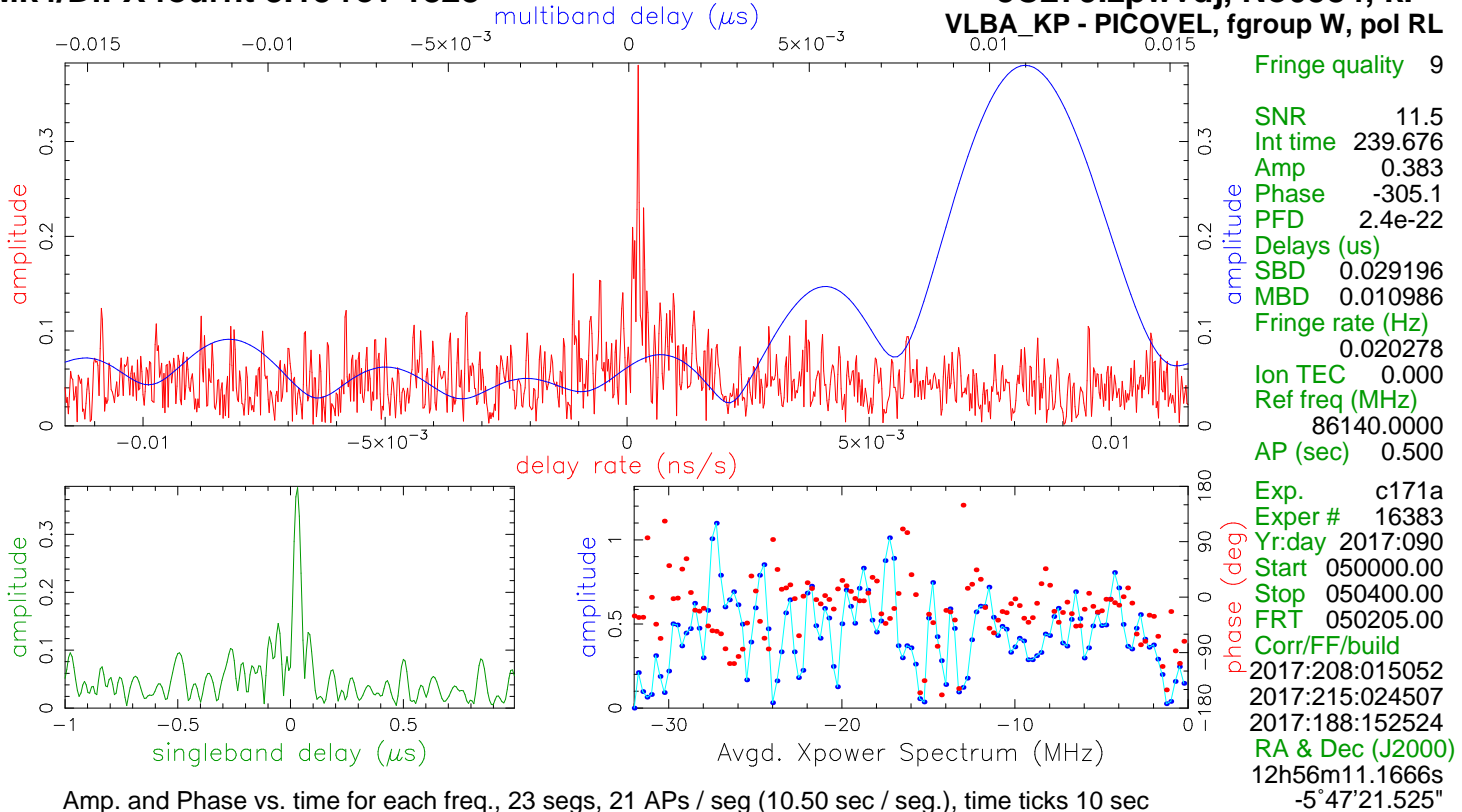


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

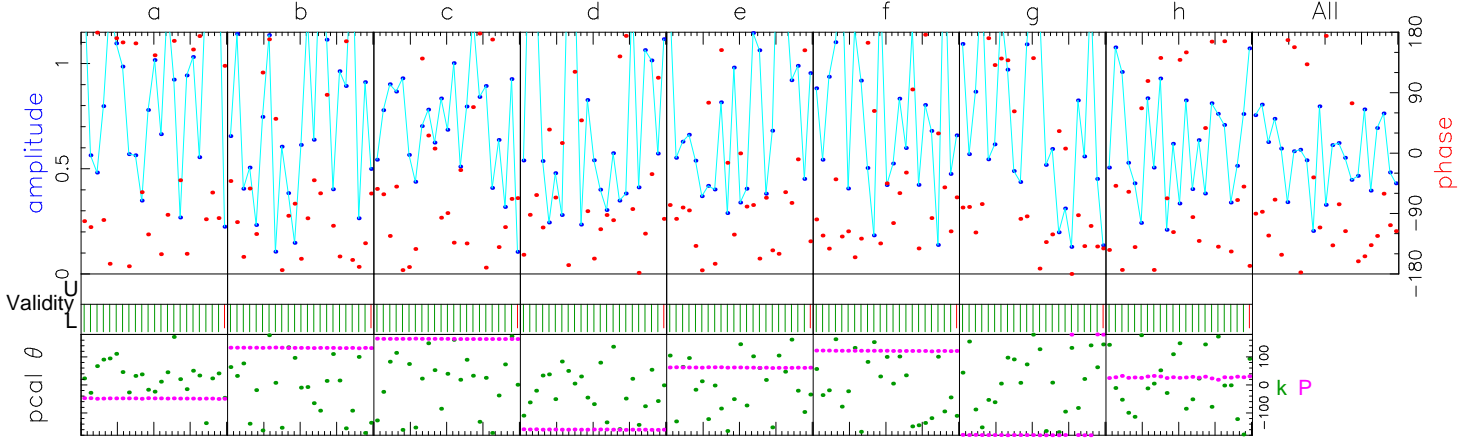


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-59.8	40.2	88.4	55.5	41.1	79.5	41.6	52.5	Phase	53.0
	0.0	0.3	0.2	0.3	0.3	0.2	0.3	0.3	Ampl.	0.2
	48.9	132.6	248.2	140.5	47.8	96.6	132.5	123.4	Sbd box	133.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.88911348355E+03		Apriori delay (usec)		6.88908583981E+03		Resid mbdelay (usec)		-3.60626E-03	+/- 3.3E-04
Sband delay (usec)	6.88911797631E+03		Apriori clock (usec)		-3.4831097E+00		Resid sbdelay (usec)		3.21365E-02	+/- 2.6E-03
Phase delay (usec)	6.88908584152E+03		Apriori clockrate (us/s)		-5.2401914E-07		Resid phdelay (usec)		1.70989E-06	+/- 5.7E-07
Delay rate (us/s)	2.00258032234E+00		Apriori rate (us/s)		2.00258008381E+00		Resid rate (us/s)		2.38538E-07	+/- 4.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.57988313975E-05		Resid phase (deg)		-127.0	+/- 17.6

ph/seg (deg) 66.0 42.1 Search (1024X32) 0.203 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 90.6 73.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 50.2 24.9 Inc. seg. avg. 0.267 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
amp/frq (%) 41.5 43.4 Inc. frq. avg. 0.214 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.71.zpwwdj



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
-139.1	-130.4	-118.0	-111.3	-106.3	-109.0	-137.7	-155.4	Phase	-125.1
0.6	0.4	0.3	0.4	0.5	0.4	0.4	0.3	Ampl.	0.4
132.9	132.6	122.0	132.2	131.9	132.6	132.6	202.2	Sbd box	132.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	6.88912807541E+03	Apriori delay (usec)	6.88908583981E+03	Resid mbdelay (usec)	1.09856E-02	+/-	1.9E-04		
Sband delay (usec)	6.88911503531E+03	Apriori clock (usec)	-3.4831097E+00	Resid sbdelay (usec)	2.91955E-02	+/-	1.5E-03		
Phase delay (usec)	6.88908583577E+03	Apriori clockrate (us/s)	-5.2401914E-07	Resid phdelay (usec)	-4.03442E-06	+/-	3.2E-07		
Delay rate (us/s)	2.00258031922E+00	Apriori rate (us/s)	2.00258008381E+00	Resid rate (us/s)	2.35409E-07	+/-	2.3E-09		
Total phase (deg)		-218.3	Apriori accel (us/s/s)	-3.57988313975E-05	Resid phase (deg)		-305.1	+/-	10.0

RMS Theor. Amplitude 0.383 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 58.1 24.0 Search (1024X32) 0.354 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

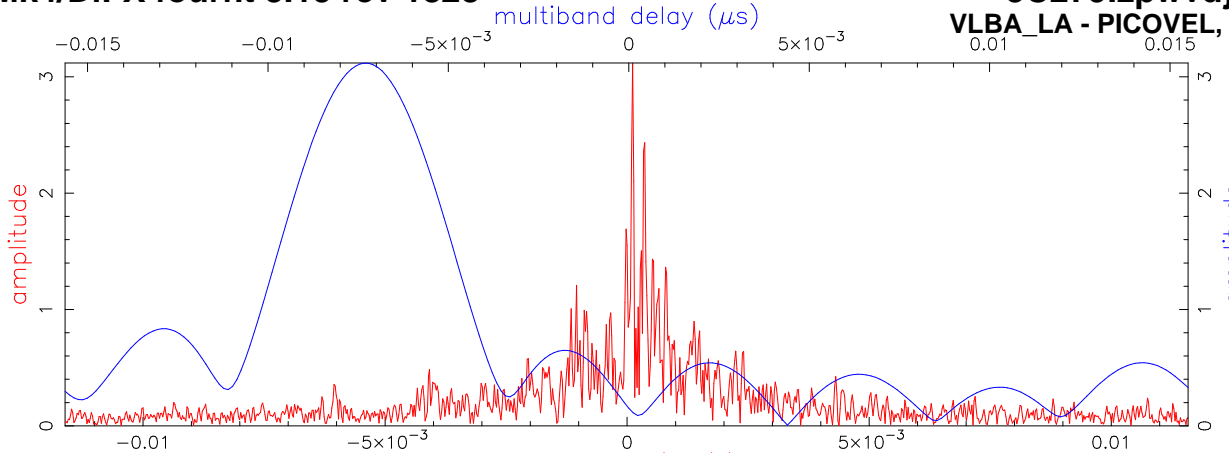
amp/seg (%) 65.2 41.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 19.0 14.1 Inc. seg. avg. 0.527 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

amp/frq (%) 23.5 24.7 Inc. frq. avg. 0.384 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.72.zpwvdj



Fringe quality 5

SNR 93.4

Int time 239.675

Amp 3.119

Phase 88.8

PFD 0.0e+00

Delays (us)

SBD -0.038582

MBD -0.007296

Fringe rate (Hz) 0.009749

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

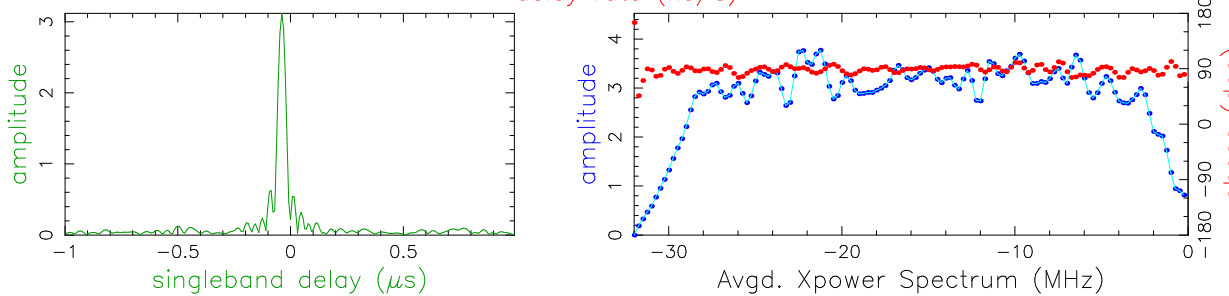
Corr/FF/build

2017:208:015052

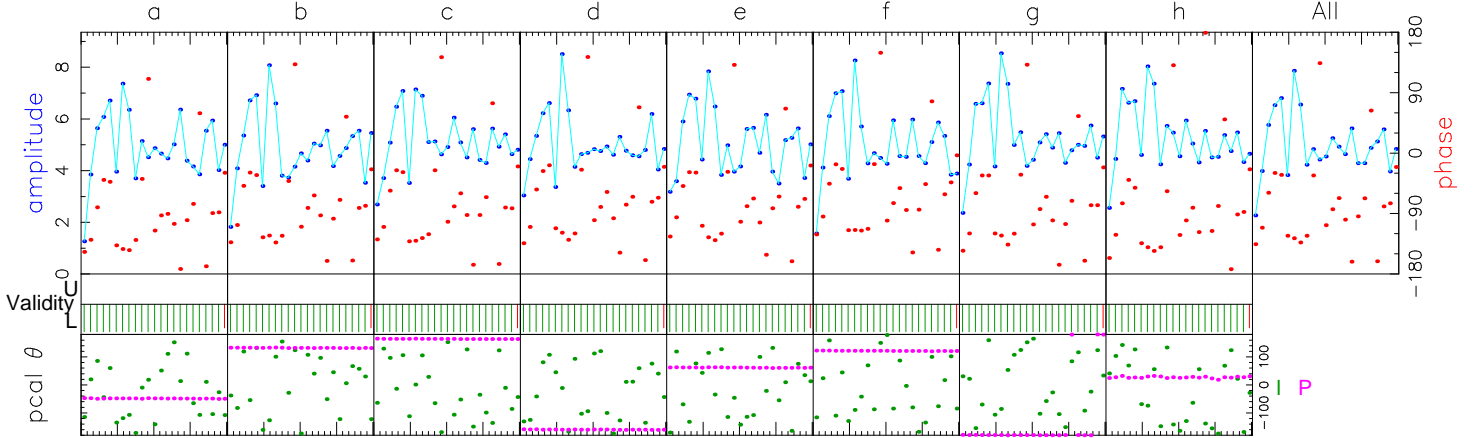
2017:215:024521

2017:188:152524

RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



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



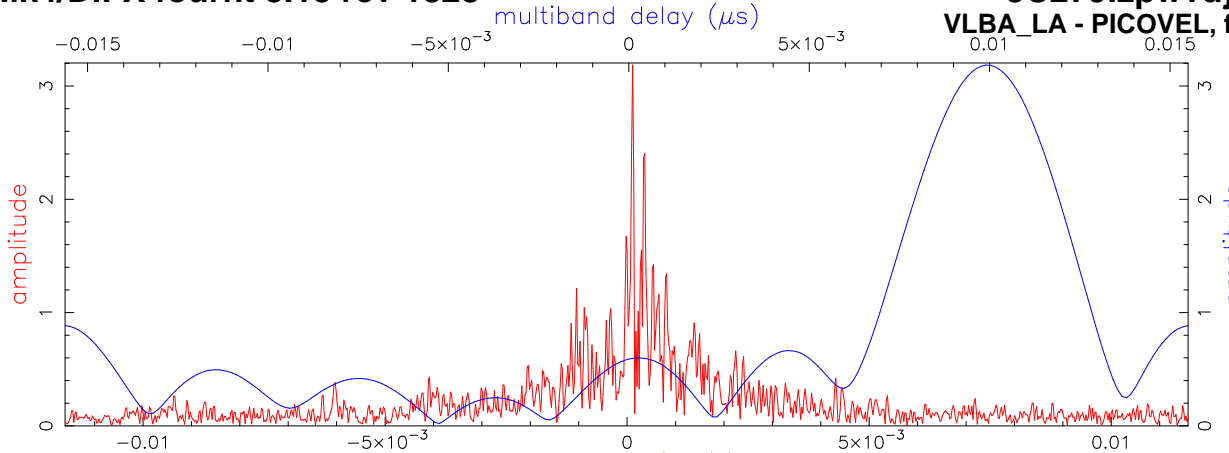
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

Group delay (usec)(sbd)	7.19327050301E+03	Apriori delay (usec)	7.19330904899E+03	Resid mbdelay (usec)	-7.29598E-03	+/-	2.3E-05
Sband delay (usec)	7.19327046699E+03	Apriori clock (usec)	-4.6911712E+00	Resid sbdelay (usec)	-3.85820E-02	+/-	1.8E-04
Phase delay (usec)	7.19330904605E+03	Apriori clockrate (us/s)	-6.2261307E-07	Resid phdelay (usec)	-2.94134E-06	+/-	4.0E-08
Delay rate (us/s)	1.87331482854E+00	Apriori rate (us/s)	1.87331471536E+00	Resid rate (us/s)	1.13176E-07	+/-	2.9E-10
Total phase (deg)	261.7	Apriori accel (us/s/s)	-3.80625243916E-05	Resid phase (deg)	88.8	+/-	1.2

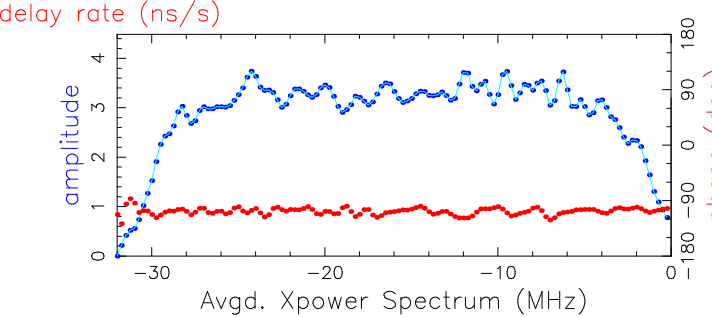
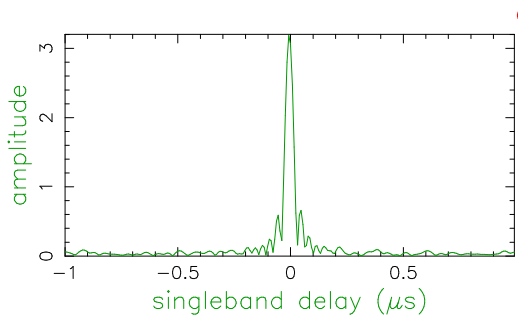
ph/seg (deg)	58.0	Theor.	2.9	Amplitude	3.119 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	71.0	Search (1024X32)	3.038	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	10.3	Interp.	0.000	Inc. seg. avg.	4.998	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	3.6	Inc. frq. avg.	3.155	Inc. frq. avg.	3.155	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

I: az 132.7 el 35.9 pa -36.5 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10811.859 142.117 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/IP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/IP.W.85.zpwvdj

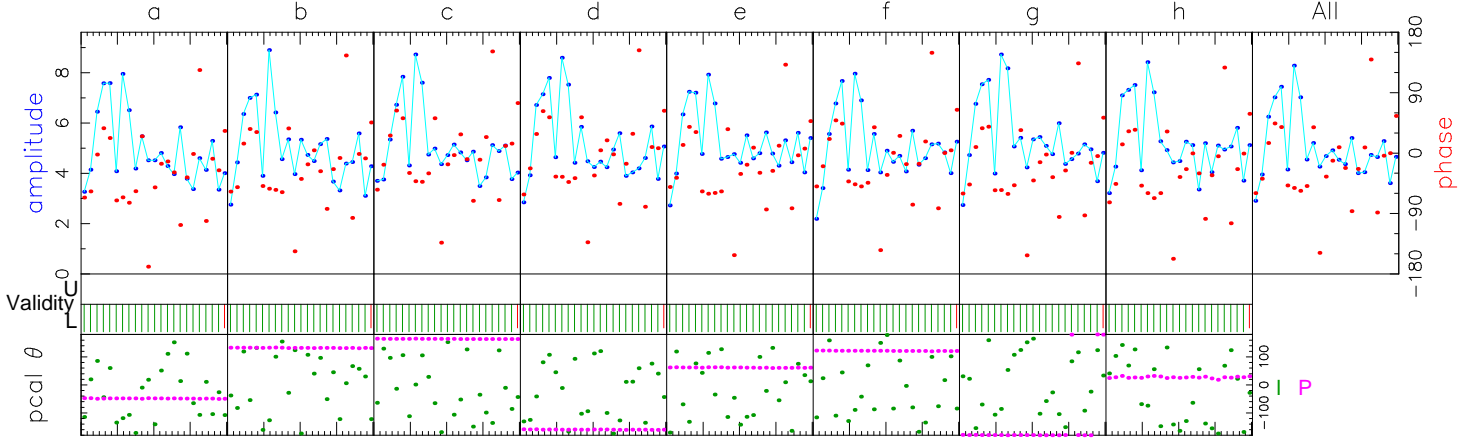


Fringe quality 5  
 SNR 95.9  
 Int time 239.675  
 Amp 3.204  
 Phase 162.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005732  
 MBD 0.009943  
 Fringe rate (Hz) 0.009737  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024522  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

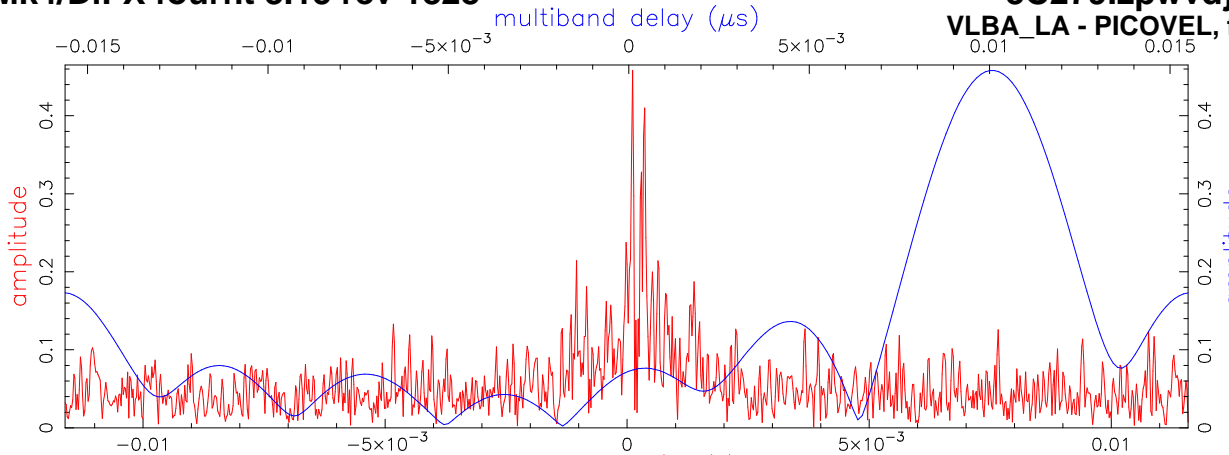


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-30.2	-22.2	-4.0	-3.9	-18.7	-9.0	-23.3	-24.7	Phase	-17.1
	3.0	3.3	3.2	3.2	3.3	3.1	3.4	3.2	Ampl.	3.2
	128.3	128.4	128.4	128.2	128.2	128.4	128.0	128.4	Sbd box	128.3
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.19328774189E+03		Apriori delay (usec)		7.19330904899E+03		Resid mbdelay (usec)		9.94289E-03	+/- 2.3E-05
Sband delay (usec)	7.19330331699E+03		Apriori clock (usec)		-4.6911712E+00		Resid sbdelay (usec)		-5.73200E-03	+/- 1.8E-04
Phase delay (usec)	7.19330904844E+03		Apriori clockrate (us/s)		-6.2261307E-07		Resid phdelay (usec)		-5.49872E-07	+/- 3.9E-08
Delay rate (us/s)	1.87331482840E+00		Apriori rate (us/s)		1.87331471536E+00		Resid rate (us/s)		1.13037E-07	+/- 2.8E-10
Total phase (deg)	335.9		Apriori accel (us/s/s)		-3.80625243916E-05		Resid phase (deg)		162.9	+/- 1.2

RMS Theor. Amplitude 3.204 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 57.7 2.9 Search (1024X32) 3.170 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 70.3 5.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 10.9 1.7 Inc. seg. avg. 5.039 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 (%) 3.7 2.9 Inc. frq. avg. 3.227 ion window (TEC) 0.00 0.00

I: az 132.7 el 35.9 pa -36.5 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10811.859 142.117 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/IP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/IP.W.86.zpwvdj





Fringe quality 9

SNR 13.9

Int time 239.675

Amp 0.465

Phase 337.1

PFD 6.8e-36

Delays (us)

SBD -0.020143

MBD 0.010095

Fringe rate (Hz) 0.010057

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

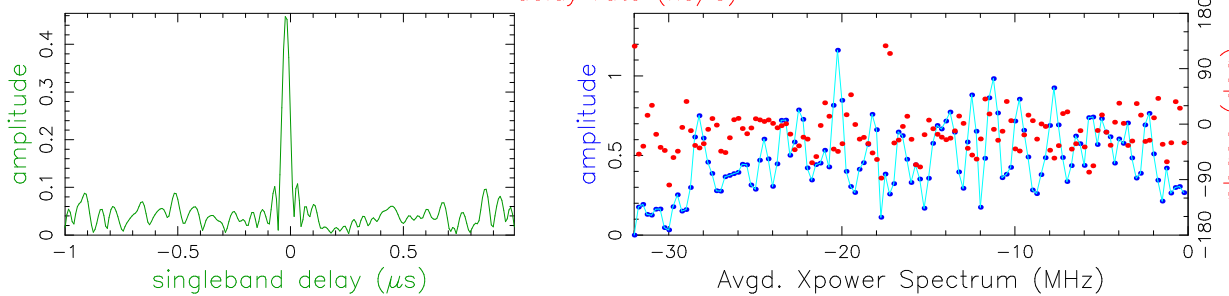
Corr/FF/build

2017:208:015052

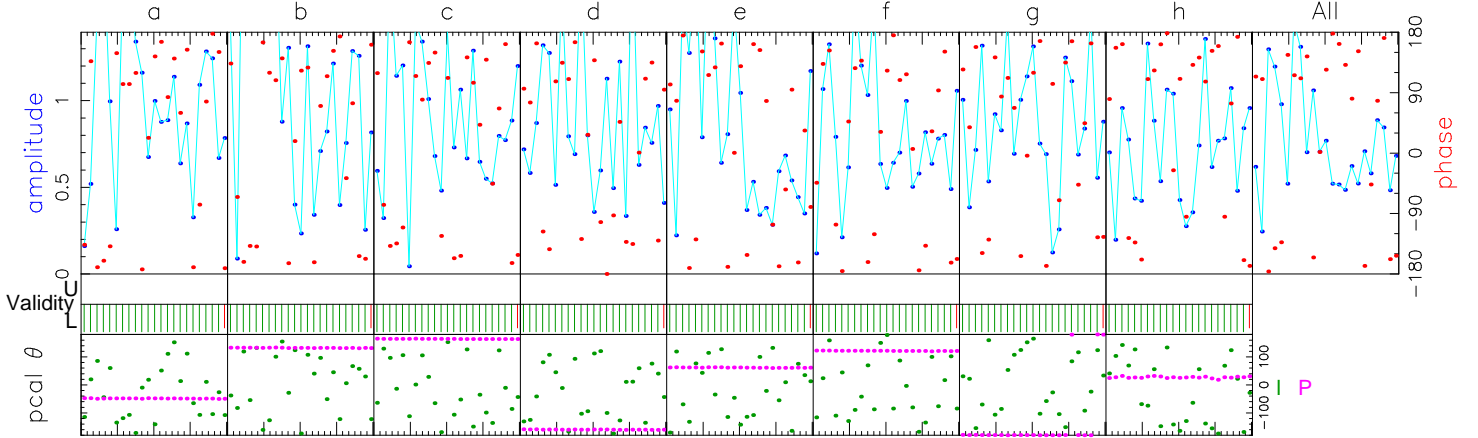
2017:215:024523

2017:188:152524

RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



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
148.8	158.1	161.1	177.0	161.5	154.0	149.8	152.5	Phase	157.1
0.6	0.7	0.4	0.4	0.4	0.4	0.4	0.4	Ampl.	0.5
126.4	126.8	125.8	126.7	126.6	126.6	124.7	127.0	Sbd box	126.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
I -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
I:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
I 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)	7.19328789426E+03		Apriori delay (usec)	7.19330904899E+03		Resid mbdelay (usec)	1.00953E-02	+/-	1.6E-04
Sband delay (usec)	7.19328890599E+03		Apriori clock (usec)	-4.6911712E+00		Resid sbdelay (usec)	-2.01430E-02	+/-	1.2E-03
Phase delay (usec)	7.19330905406E+03		Apriori clockrate (us/s)	-6.2261307E-07		Resid phdelay (usec)	5.06548E-06	+/-	2.7E-07
Delay rate (us/s)	1.87331483211E+00		Apriori rate (us/s)	1.87331471536E+00		Resid rate (us/s)	1.16746E-07	+/-	1.9E-09
Total phase (deg)		510.0	Apriori accel (us/s/s)	-3.80625243916E-05		Resid phase (deg)	337.1	+/-	8.2

RMS Theor. Amplitude 0.465 +/- 0.033

ph/seg (deg) 62.1 19.7 Search (1024X32) 0.450

amp/seg (%) 93.3 34.4 Interp. 0.000

ph/frq (deg) 9.9 11.6 Inc. seg. avg. 0.728

amp/frq (%) 22.1 20.3 Inc. frq. avg. 0.453

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

Pcal rate: 0.000E+00, 0.000E+00 (us/s)

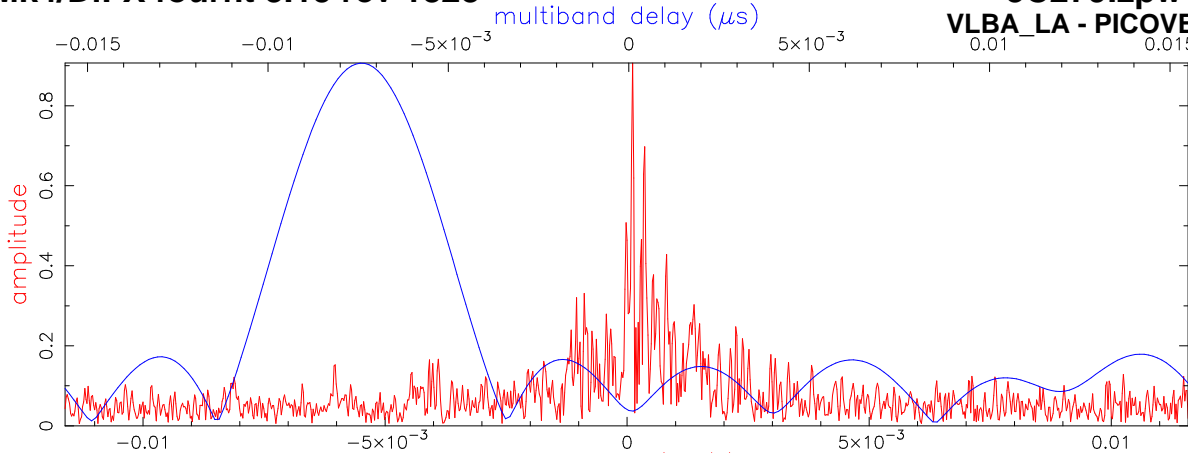
Bits/sample: 2x2 SampCntNorm: enabled sb window (us) -1.000 1.000

Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite mb window (us) -0.016 0.016

ion window (TEC) 0.00 0.00

I: az 132.7 el 35.9 pa -36.5 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10811.859 142.117 simultaneous interpolator

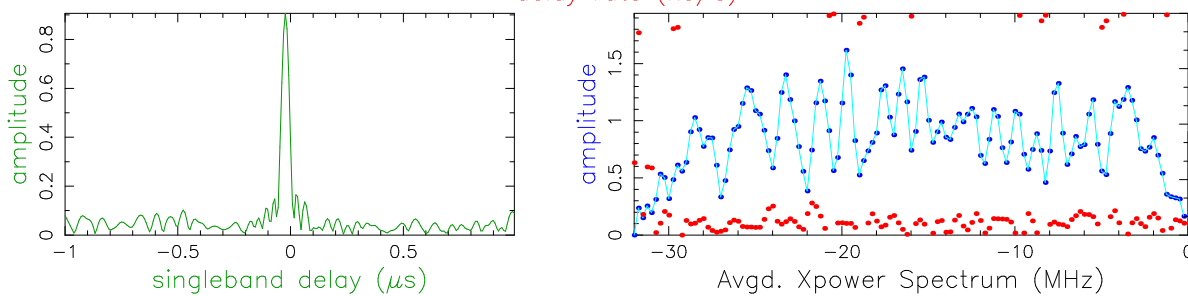
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/IP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/IP.W.87.zpwvdj



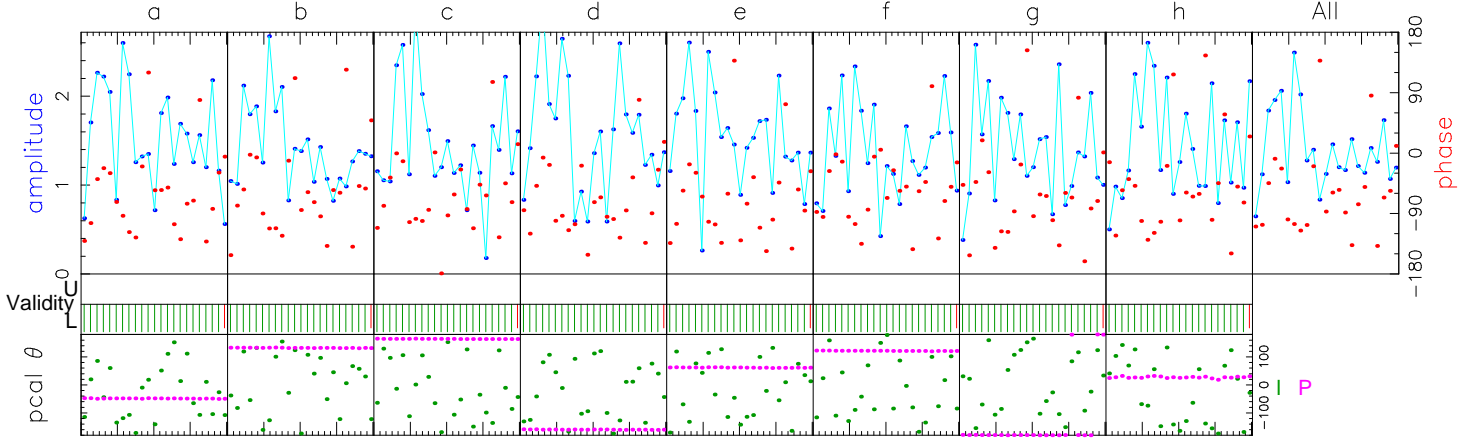
Fringe quality 7

SNR 27.1  
Int time 239.675  
Amp 0.907  
Phase -72.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.022920  
MBD -0.007412  
Fringe rate (Hz) 0.009673  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024524  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

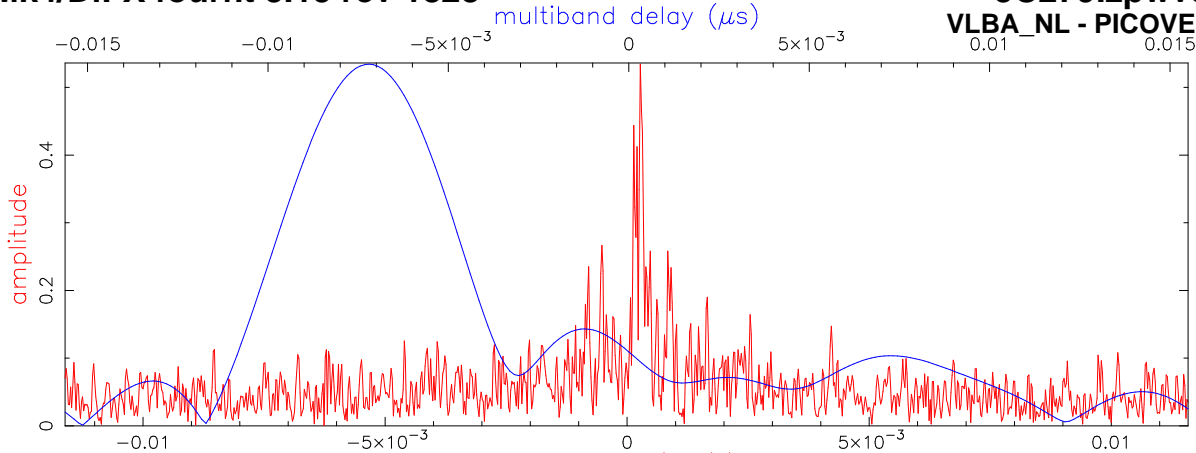


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

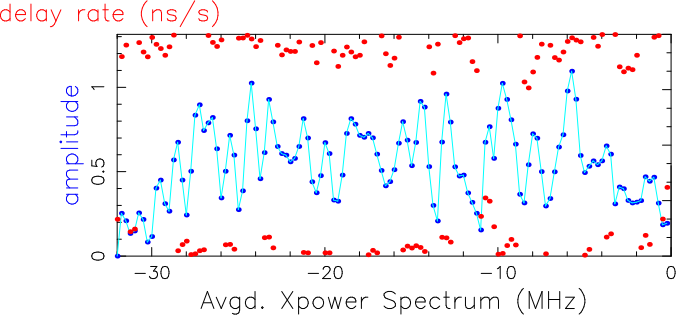
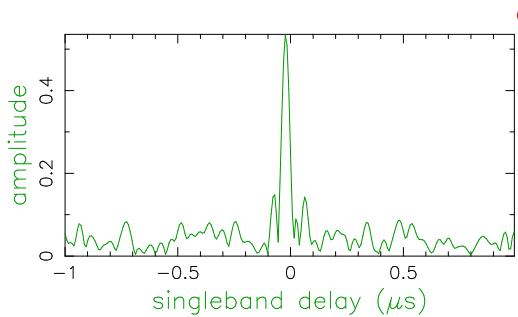


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-72.3	-77.7	-65.8	-73.4	-81.4	-60.1	-77.9	-73.3	Phase	-72.7
1.0	0.8	0.9	1.0	1.0	0.9	0.8	0.8	Ampl.	0.9
126.2	125.4	126.6	126.1	126.1	125.8	125.9	126.2	Sbd box	126.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
I -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
I:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
I W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	7.19330163701E+03	Apriori delay (usec)	7.19330904899E+03	Resid mbdelay (usec)	-7.41198E-03	+/-	8.0E-05		
Sband delay (usec)	7.19328612899E+03	Apriori clock (usec)	-4.6911712E+00	Resid sbdelay (usec)	-2.29200E-02	+/-	6.3E-04		
Phase delay (usec)	7.19330904665E+03	Apriori clockrate (us/s)	-6.2261307E-07	Resid phdelay (usec)	-2.34445E-06	+/-	1.4E-07		
Delay rate (us/s)	1.87331482766E+00	Apriori rate (us/s)	1.87331471536E+00	Resid rate (us/s)	1.12300E-07	+/-	9.8E-10		
Total phase (deg)	100.2	Apriori accel (us/s/s)	-3.80625243916E-05	Resid phase (deg)	-72.7	+/-	4.2		

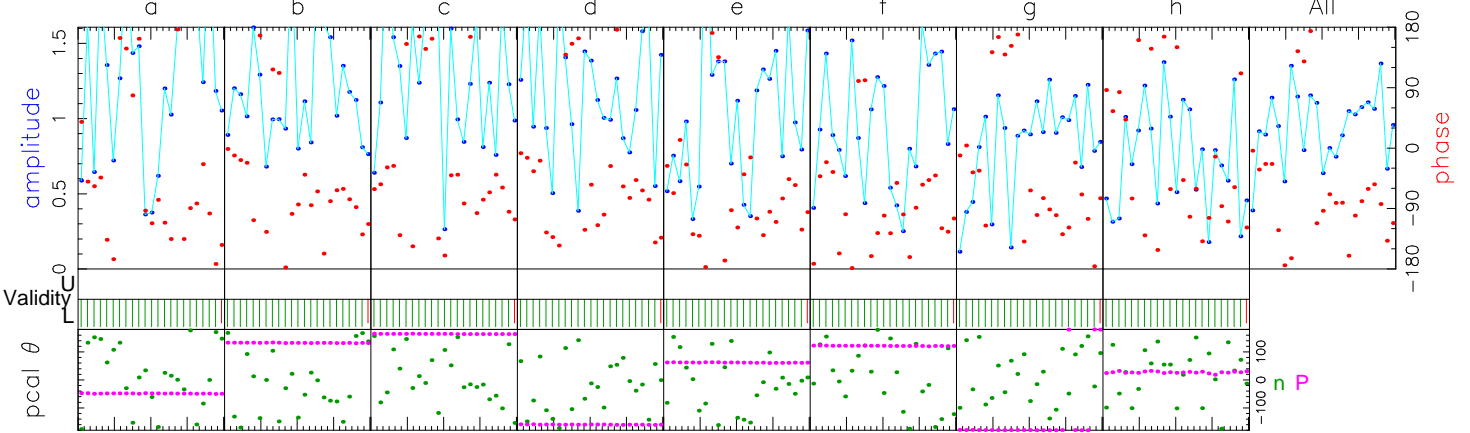
ph/seg (deg) 59.5 10.1 Theor. Amplitude 0.907 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 72.1 17.7 Search (1024X32) 0.890 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 7.5 6.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 9.0 10.4 Inc. seg. avg. 1.379 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 I: az 132.7 el 35.9 pa -36.5 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10811.859 142.117 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/IP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/IP.W.88.zpwvdj simultaneous interpolator



Fringe quality 9  
SNR 16.0  
Int time 239.675  
Amp 0.536  
Phase -100.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.021704  
MBD -0.007201  
Fringe rate (Hz) 0.022704  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024537  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



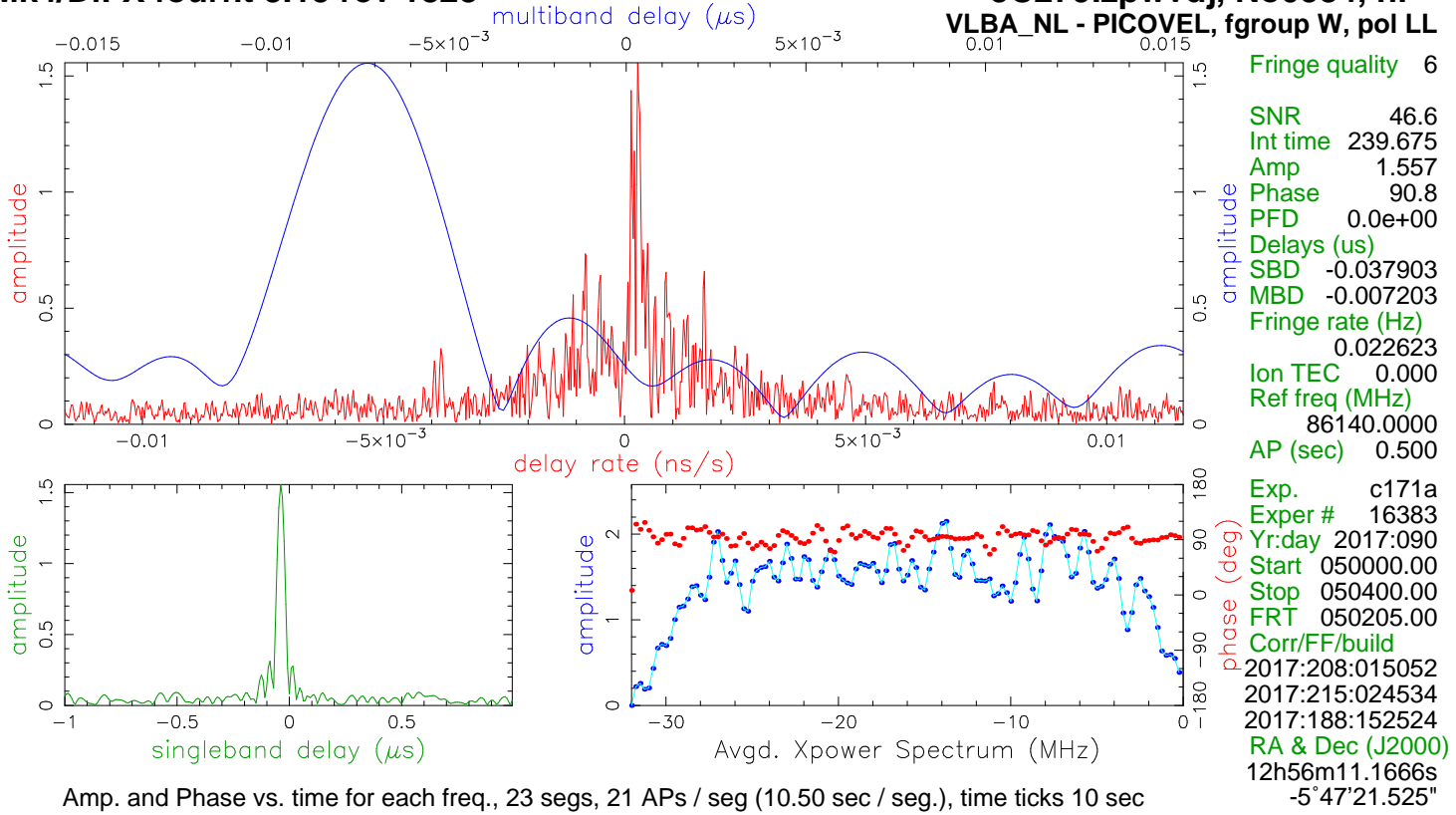
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



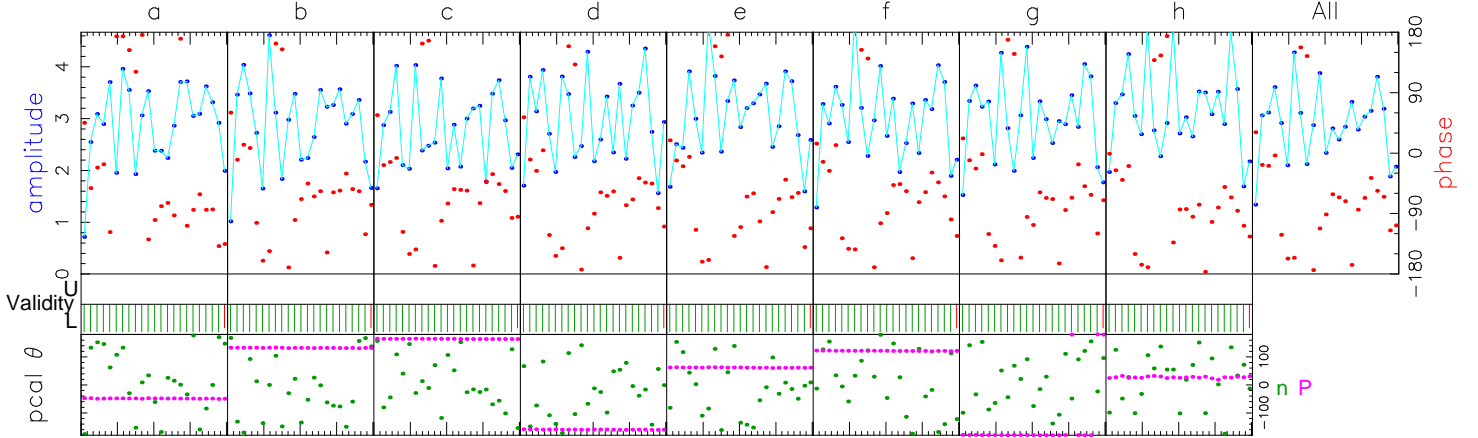
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-121.0	-84.9	-98.7	-85.9	-110.0	-97.2	-106.3	-108.6	Phase	-100.8
	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.2	Ampl.	0.5
	126.1	126.4	126.0	126.2	126.5	125.8	126.5	220.7	Sbd box	126.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.85746957729E+03		Apriori delay (usec)		7.85747677860E+03		Resid mbdelay (usec)		-7.20131E-03	+/- 1.4E-04
Sband delay (usec)	7.85745507510E+03		Apriori clock (usec)		4.9550796E+00		Resid sbdelay (usec)		-2.17035E-02	+/- 1.1E-03
Phase delay (usec)	7.85747677535E+03		Apriori clockrate (us/s)		-2.2505348E-07		Resid phdelay (usec)		-3.24902E-06	+/- 2.3E-07
Delay rate (us/s)	1.55580653868E+00		Apriori rate (us/s)		1.55580627511E+00		Resid rate (us/s)		2.63574E-07	+/- 1.7E-09
Total phase (deg)	154.2		Apriori accel (us/s/s)		-4.24842202692E-05		Resid phase (deg)		-100.8	+/- 7.1

RMS Theor. Amplitude 0.536 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 61.0 17.1 Search (1024X32) 0.506 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 88.7 29.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 13.4 10.1 Inc. seg. avg. 0.908 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 (%) 24.0 17.6 Inc. frq. avg. 0.538 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

n: az 151.6 el 38.3 pa -20.6 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -8986.779 896.167 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/nP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/nP.W.100.zpwvdj

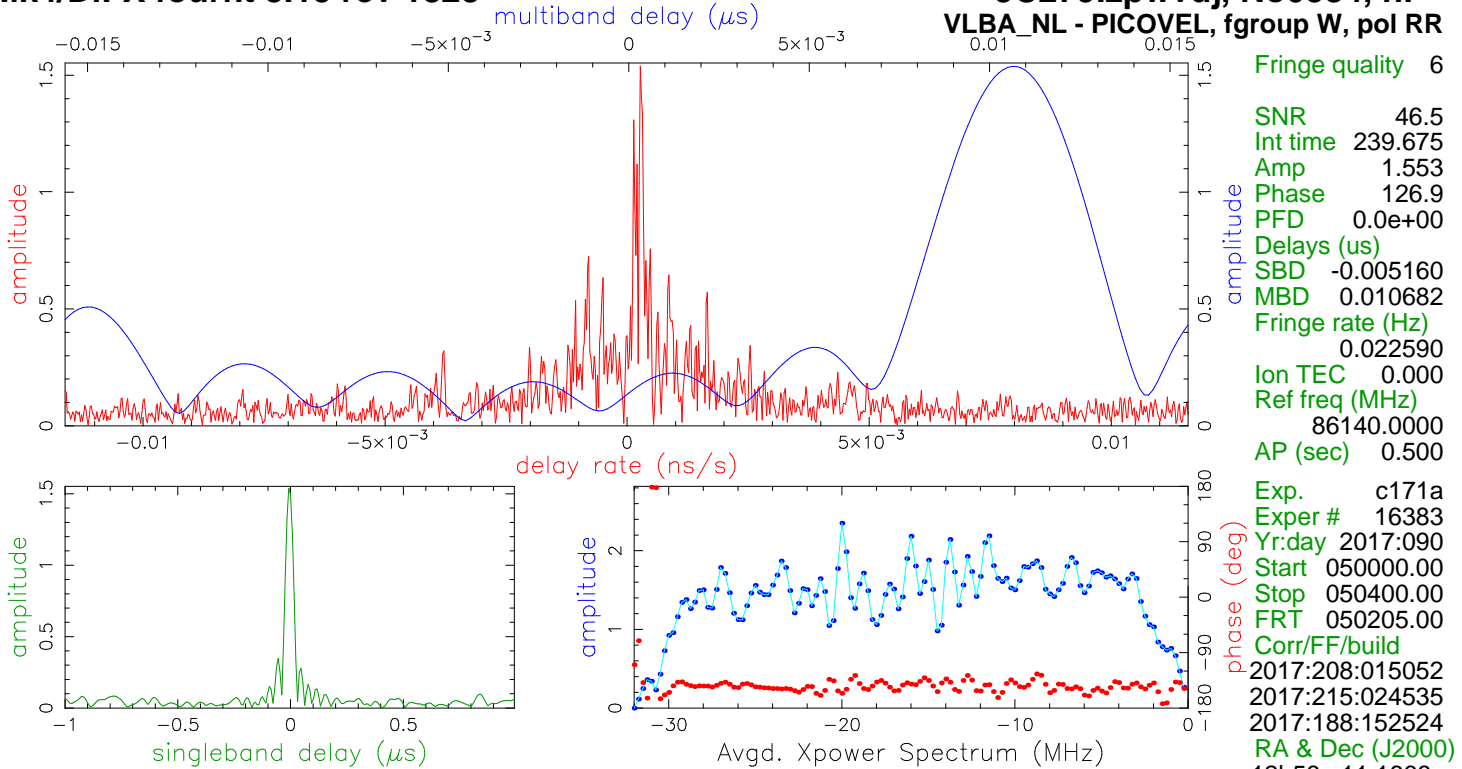


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

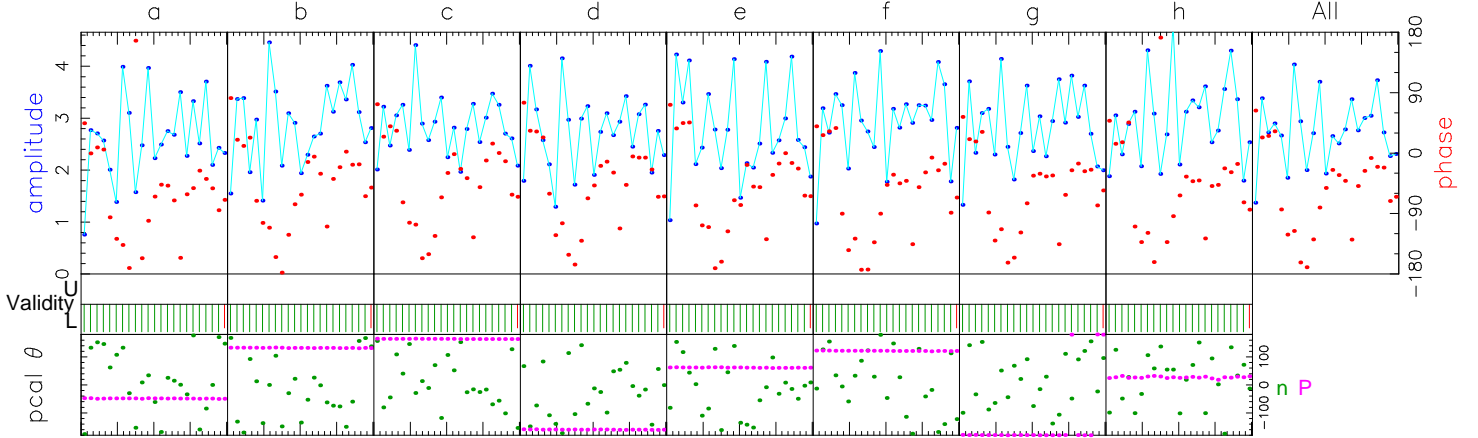


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-113.2	-74.7	-76.8	-79.7	-99.4	-82.8	-82.6	-101.9	Phase	-89.2
	1.6	1.5	1.5	1.5	1.6	1.6	1.7	1.8	Ampl.	1.6
	124.3	124.5	124.1	124.2	123.9	124.0	123.9	124.2	Sbd box	124.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	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)		7.85743832548E+03		Apriori delay (usec)	7.85747677860E+03		Resid mbdelay (usec)	-7.20312E-03	+/-	4.7E-05
Sband delay (usec)		7.85743887560E+03		Apriori clock (usec)	4.9550796E+00		Resid sbdelay (usec)	-3.79030E-02	+/-	3.7E-04
Phase delay (usec)		7.85747677572E+03		Apriori clockrate (us/s)	-2.2505348E-07		Resid phdelay (usec)	-2.87683E-06	+/-	7.9E-08
Delay rate (us/s)		1.55580653774E+00		Apriori rate (us/s)	1.55580627511E+00		Resid rate (us/s)	2.62629E-07	+/-	5.7E-10
Total phase (deg)			345.8	Apriori accel (us/s/s)	-4.24842202692E-05		Resid phase (deg)	90.8	+/-	2.5

ph/seg (deg) 63.5 5.9 Theor. Amplitude 1.557 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 95.8 10.3 Search (1024X32) 1.473 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 15.2 3.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 6.6 6.1 Inc. seg. avg. 2.872 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 n: az 151.6 el 38.3 pa -20.6 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -8986.779 896.167 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/nP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/nP.W.97.zpwvdj simultaneous interpolator



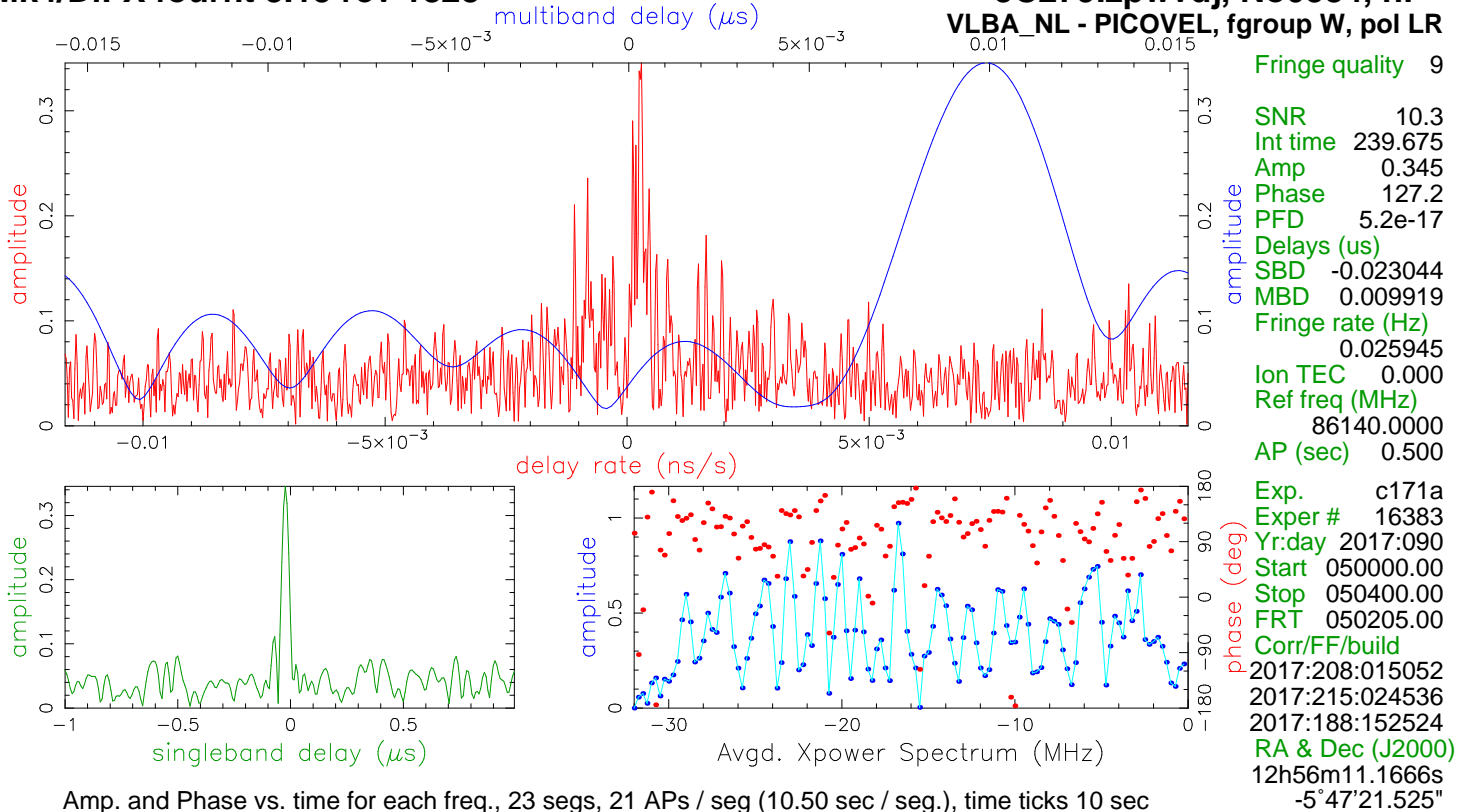
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



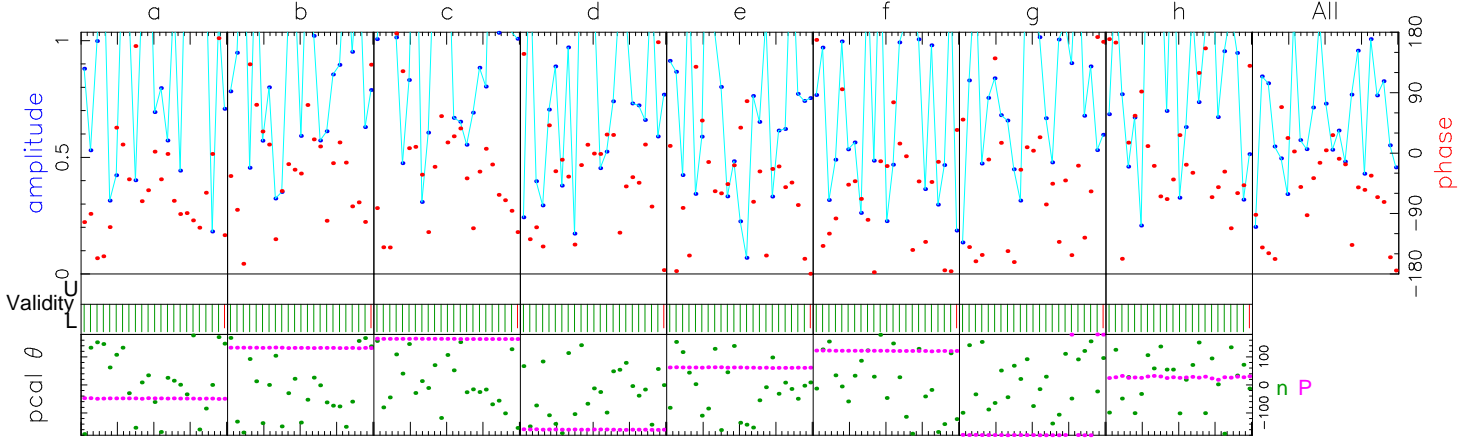
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-74.0	-46.1	-43.8	-41.2	-46.8	-55.9	-53.7	-62.3	Phase	-53.1
	1.5	1.7	1.5	1.5	1.4	1.5	1.7	1.7	Ampl.	1.6
	128.5	128.4	128.4	128.4	128.2	128.2	128.3	128.2	Sbd box	128.3
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	7.85745621066E+03	Apriori delay (usec)	7.85747677860E+03	Resid mbdelay (usec)	1.06821E-02	+/-	4.7E-05	
Sband delay (usec)	7.85747161910E+03	Apriori clock (usec)	4.9550796E+00	Resid sbdelay (usec)	-5.15950E-03	+/-	3.7E-04	
Phase delay (usec)	7.85747677688E+03	Apriori clockrate (us/s)	-2.2505348E-07	Resid phdelay (usec)	-1.71104E-06	+/-	8.0E-08	
Delay rate (us/s)	1.55580653735E+00	Apriori rate (us/s)	1.55580627511E+00	Resid rate (us/s)	2.62243E-07	+/-	5.7E-10	
Total phase (deg)	381.9	Apriori accel (us/s/s)	-4.24842202692E-05	Resid phase (deg)	126.9	+/-	2.5	
RMS	Theor.	Amplitude	1.553 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
ph/seg (deg)	61.7	Search (1024X32)	1.476	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	87.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	11.9	Inc. seg. avg.	2.746	Sample rate(MSamp/s):	64	ion window (TEC)	0.00 0.00	
amp/frq (%)	7.0	Inc. frq. avg.	1.560	Data rate(Mb/s):	1024	nlags: 128 t_cohere	infinite	

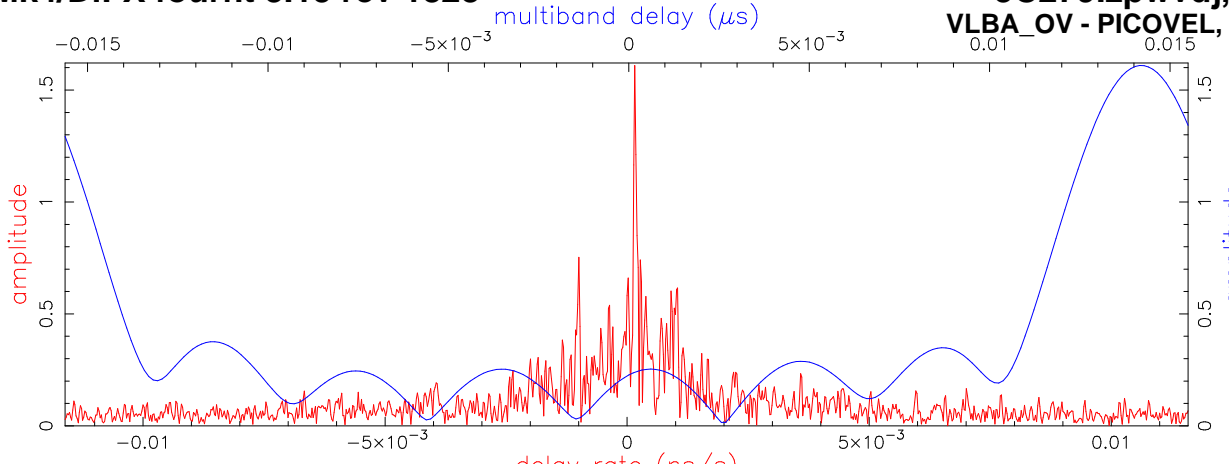




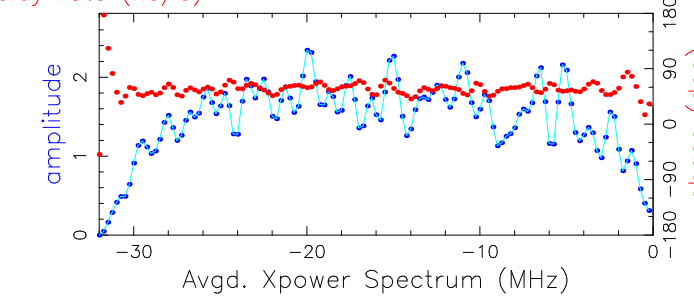
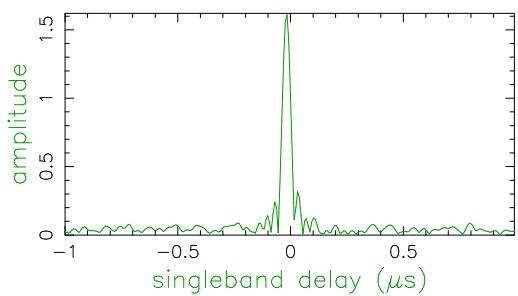
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



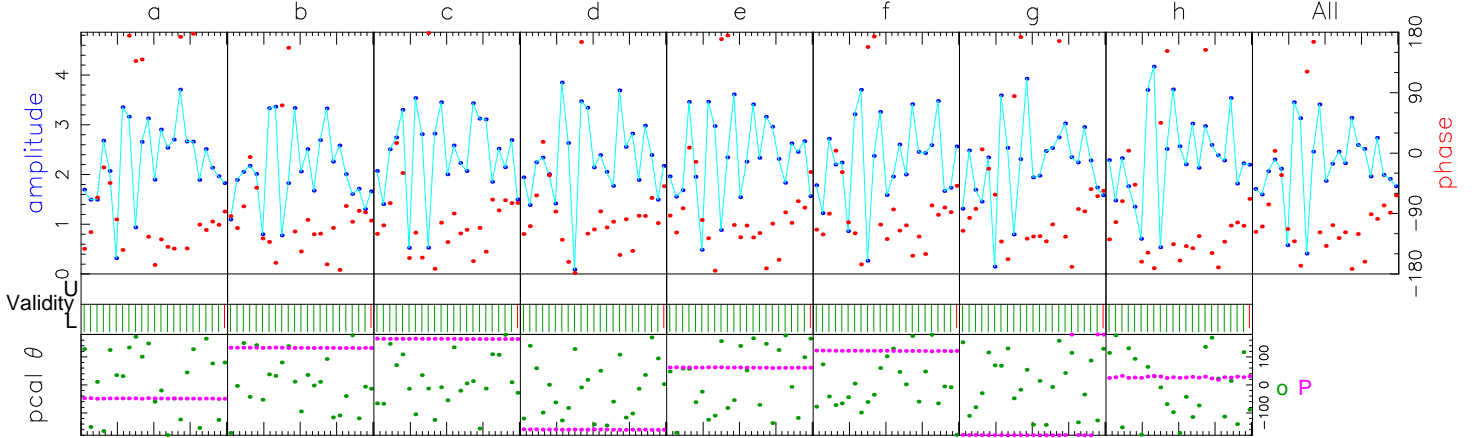
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-80.2	-18.5	-39.0	-38.8	-60.5	-76.2	-70.8	-46.2	-52.8	Phase	-52.8
0.6	0.4	0.5	0.4	0.3	0.2	0.2	0.3	0.4	Ampl.	0.4
125.7	126.2	126.1	126.2	126.4	197.4	59.2	126.5	126.1	Sbd box	126.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	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)	7.85745544755E+03		Apriori delay (usec)	7.85747677860E+03		Resid mbdelay (usec)	9.91896E-03	+/-	2.1E-04	
Sband delay (usec)	7.85745373460E+03		Apriori clock (usec)	4.9550796E+00		Resid sbdelay (usec)	-2.30440E-02	+/-	1.7E-03	
Phase delay (usec)	7.85747677689E+03		Apriori clockrate (us/s)	-2.2505348E-07		Resid phdelay (usec)	-1.70251E-06	+/-	3.6E-07	
Delay rate (us/s)	1.55580657631E+00		Apriori rate (us/s)	1.55580627511E+00		Resid rate (us/s)	3.01200E-07	+/-	2.6E-09	
Total phase (deg)		382.2	Apriori accel (us/s/s)	-4.24842202692E-05		Resid phase (deg)	127.2	+/-	11.1	
RMS	Theor.	Amplitude	0.345 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000		
66.2	26.6	Search (1024X32)	0.339	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016		
115.8	46.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012		
23.4	15.7	Inc. seg. avg.	0.606	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00		
33.0	27.4	Inc. frq. avg.	0.356	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite					



Fringe quality 4  
 SNR 48.5  
 Int time 239.678  
 Amp 1.621  
 Phase 62.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.017909  
 MBD 0.014202  
 Fringe rate (Hz) 0.012910  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024543  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



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



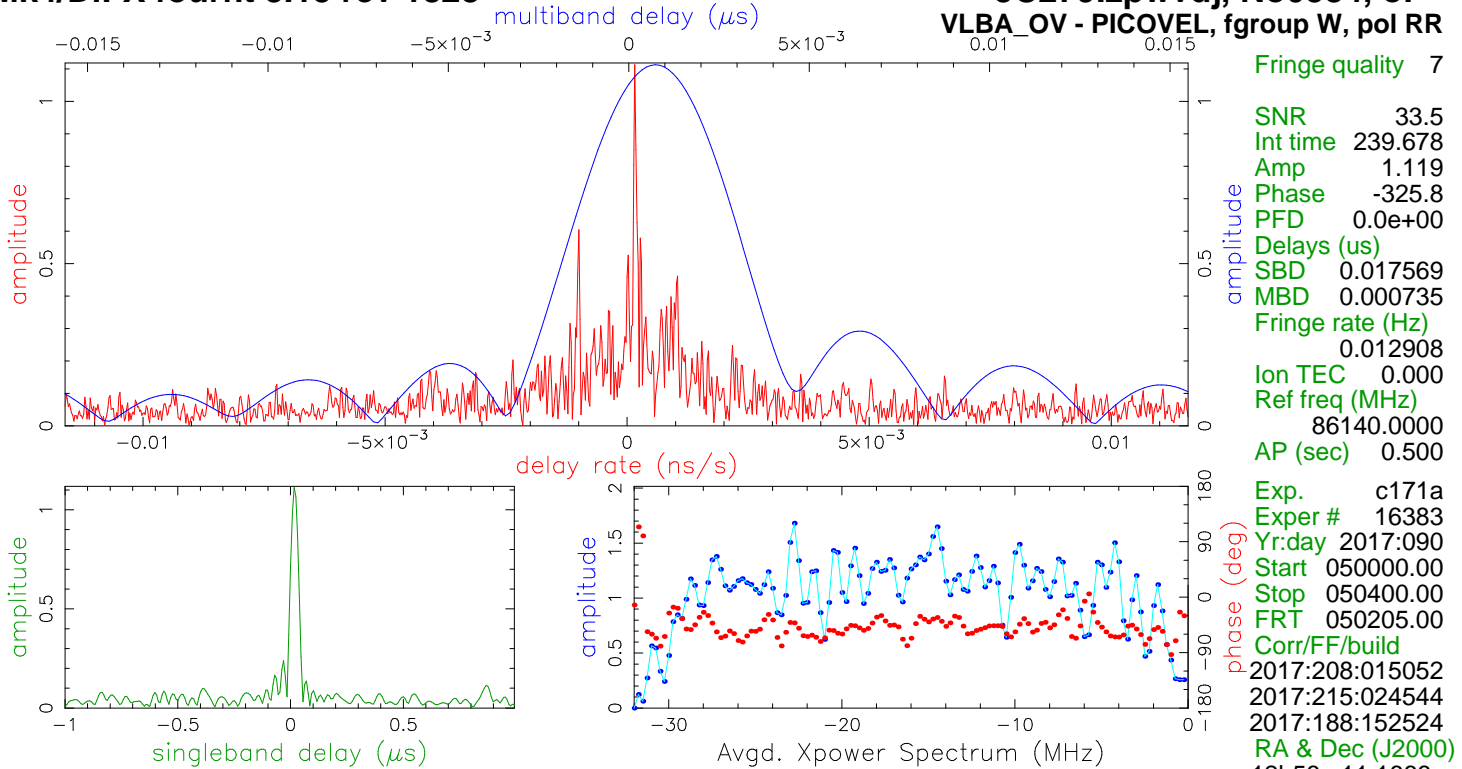
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-136.6	-118.6	-107.0	-109.3	-111.9	-109.2	-114.3	-136.4	Phase	-117.8
	1.6	1.5	1.8	1.7	1.7	1.7	1.5	1.7	Ampl.	1.6
	126.7	126.7	126.7	126.7	127.0	126.6	126.2	127.0	Sbd box	126.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	4.51854947364E+03	Apriori delay (usec)	4.51856652159E+03	Resid mbdelay (usec)	1.42020E-02	+/-	4.5E-05
Sband delay (usec)	4.51854861309E+03	Apriori clock (usec)	1.7603902E+00	Resid sbdelay (usec)	-1.79085E-02	+/-	3.6E-04
Phase delay (usec)	4.51856651779E+03	Apriori clockrate (us/s)	-2.6215607E-07	Resid phdelay (usec)	-3.79773E-06	+/-	7.6E-08
Delay rate (us/s)	2.05039308445E+00	Apriori rate (us/s)	2.05039293458E+00	Resid rate (us/s)	1.49874E-07	+/-	5.5E-10
Total phase (deg)	123.4	Apriori accel (us/s/s)	-2.40409441931E-05	Resid phase (deg)	62.2	+/-	2.4

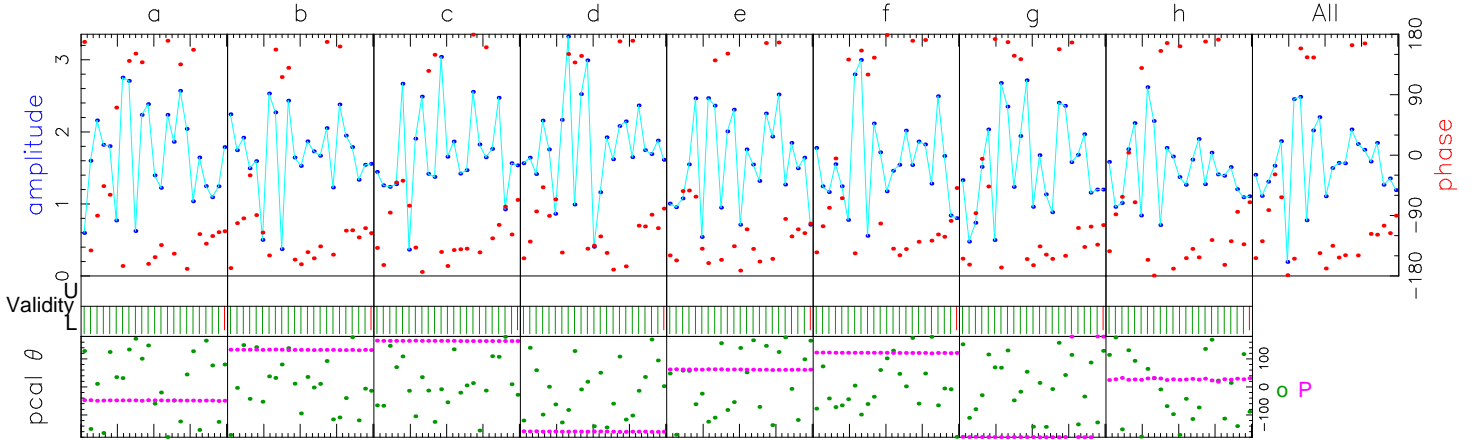
ph/seg (deg)	50.6	Theor.	5.7	Amplitude	1.621 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	57.9	Search (1024X32)	1.498	Apriori clock (usec)	1.498	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	13.0	Interp.	0.000	Apriori clockrate (us/s)	-2.6215607E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	5.5	Inc. seg. avg.	2.194	Apriori rate (us/s)	2.05039293458E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	1.639	Apriori accel (us/s/s)	-2.40409441931E-05	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.105.zpwwdj

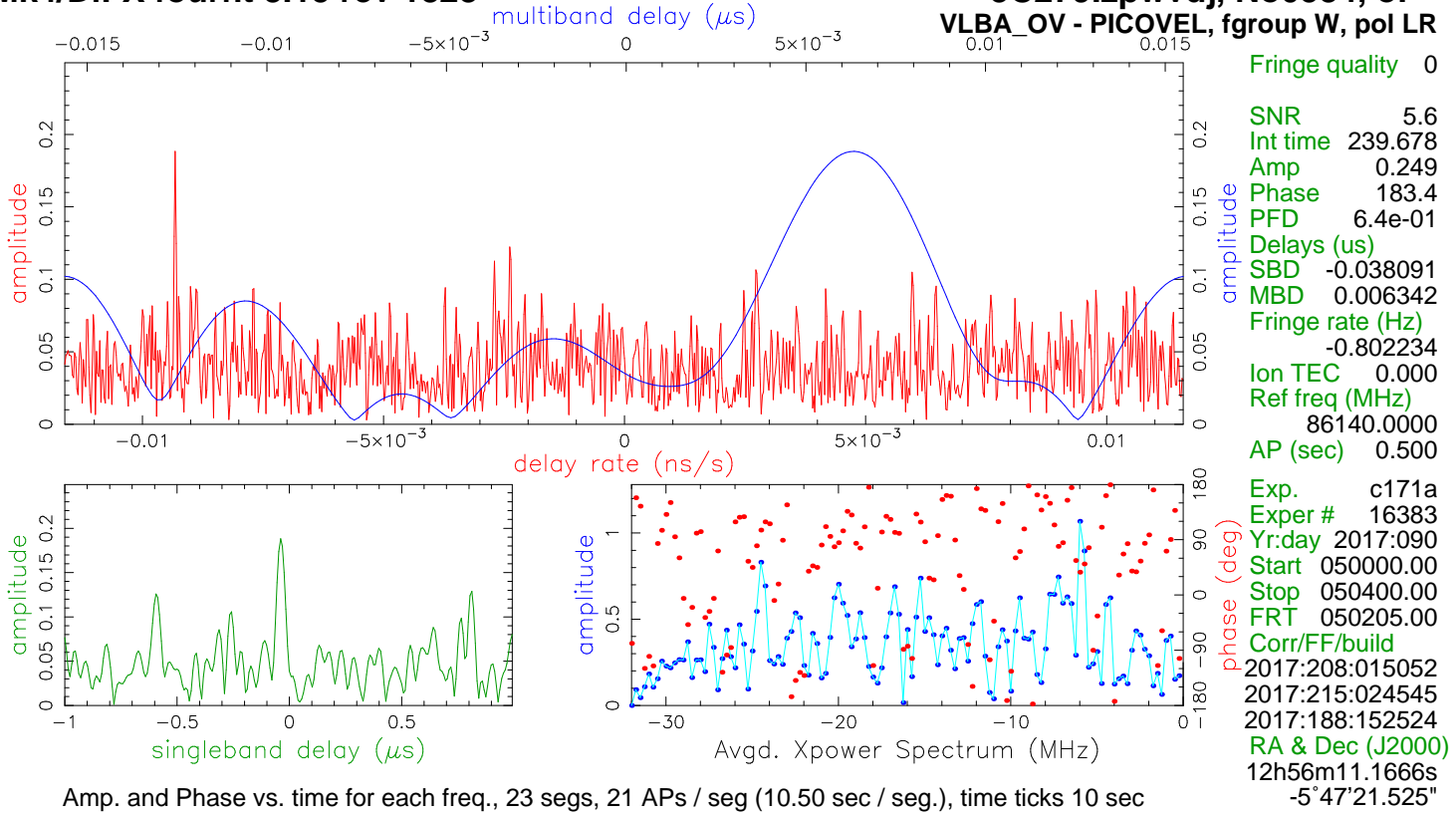


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

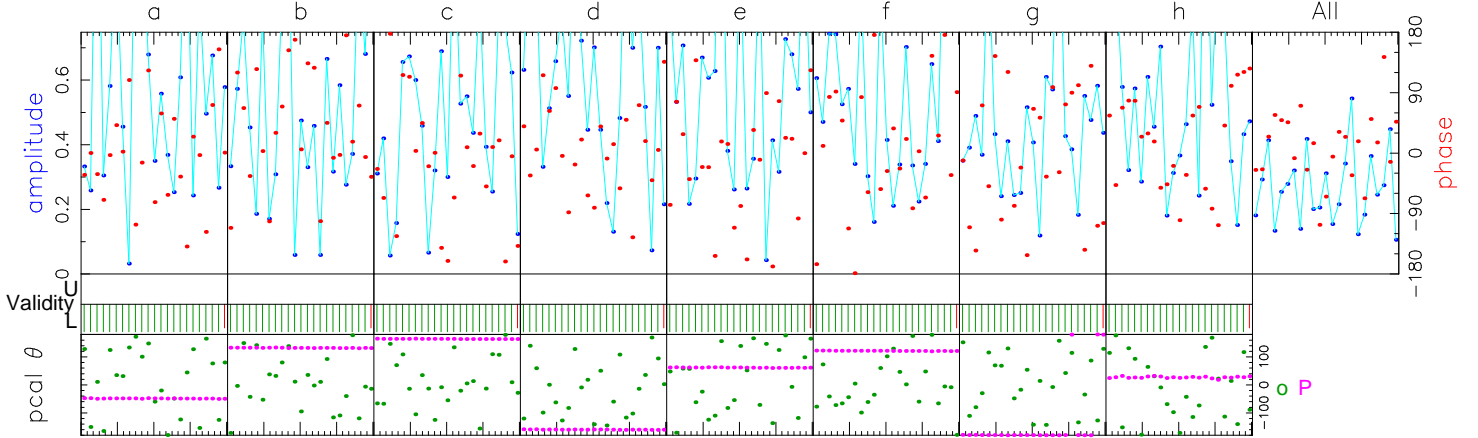


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-157.6	-145.6	-137.5	-139.5	-143.3	-143.8	-154.3	-147.1	Phase	-145.8
1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.0	Ampl.	1.1
131.2	131.1	131.8	131.0	131.1	131.1	131.1	131.6	Sbd box	131.2
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	4.51859850620E+03		Apriori delay (usec)	4.51856652159E+03		Resid mbdelay (usec)	7.34612E-04	+/-	6.5E-05
Sband delay (usec)	4.51858409109E+03		Apriori clock (usec)	1.7603902E+00		Resid sbdelay (usec)	1.75695E-02	+/-	5.1E-04
Phase delay (usec)	4.51856651689E+03		Apriori clockrate (us/s)	-2.6215607E-07		Resid phdelay (usec)	-4.70283E-06	+/-	1.1E-07
Delay rate (us/s)	2.05039308443E+00		Apriori rate (us/s)	2.05039293458E+00		Resid rate (us/s)	1.49853E-07	+/-	8.0E-10
Total phase (deg)		-264.6	Apriori accel (us/s/s)	-2.40409441931E-05		Resid phase (deg)	-325.8	+/-	3.4

ph/seg (deg) 47.3 8.2 Theor. Amplitude 1.119 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 60.9 14.3 Search (1024X32) 1.053 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 7.4 4.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 7.5 8.4 Inc. seg. avg. 1.551 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 Inc. frq. avg. 1.116 ion window (TEC) 0.00 0.00  
 o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.106.zpwwdj



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
	-21.1	45.6	-2.6	6.5	-8.1	33.3	-60.8	6.6	Phase	3.4
	0.4	0.3	0.1	0.5	0.4	0.1	0.1	0.3	Ampl.	0.2
	124.6	206.6	160.1	124.9	203.2	23.0	227.4	115.5	Sbd box	124.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
o	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)	4.51854161349E+03		Apriori delay (usec)		4.51856652159E+03		Resid mbdelay (usec)		6.34190E-03	+/- 3.8E-04
Sband delay (usec)	4.51852843009E+03		Apriori clock (usec)		1.7603902E+00		Resid sbdelay (usec)		-3.80915E-02	+/- 3.1E-03
Phase delay (usec)	4.51856652170E+03		Apriori clockrate (us/s)		-2.6215607E-07		Resid phdelay (usec)		1.09793E-07	+/- 6.5E-07
Delay rate (us/s)	2.05038362144E+00		Apriori rate (us/s)		2.05039293458E+00		Resid rate (us/s)		-9.31314E-06	+/- 4.7E-09
Total phase (deg)	244.6		Apriori accel (us/s/s)		-2.40409441931E-05		Resid phase (deg)		183.4	+/- 20.3

ph/seg (deg) 52.3 85.0 Interp. 0.000 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

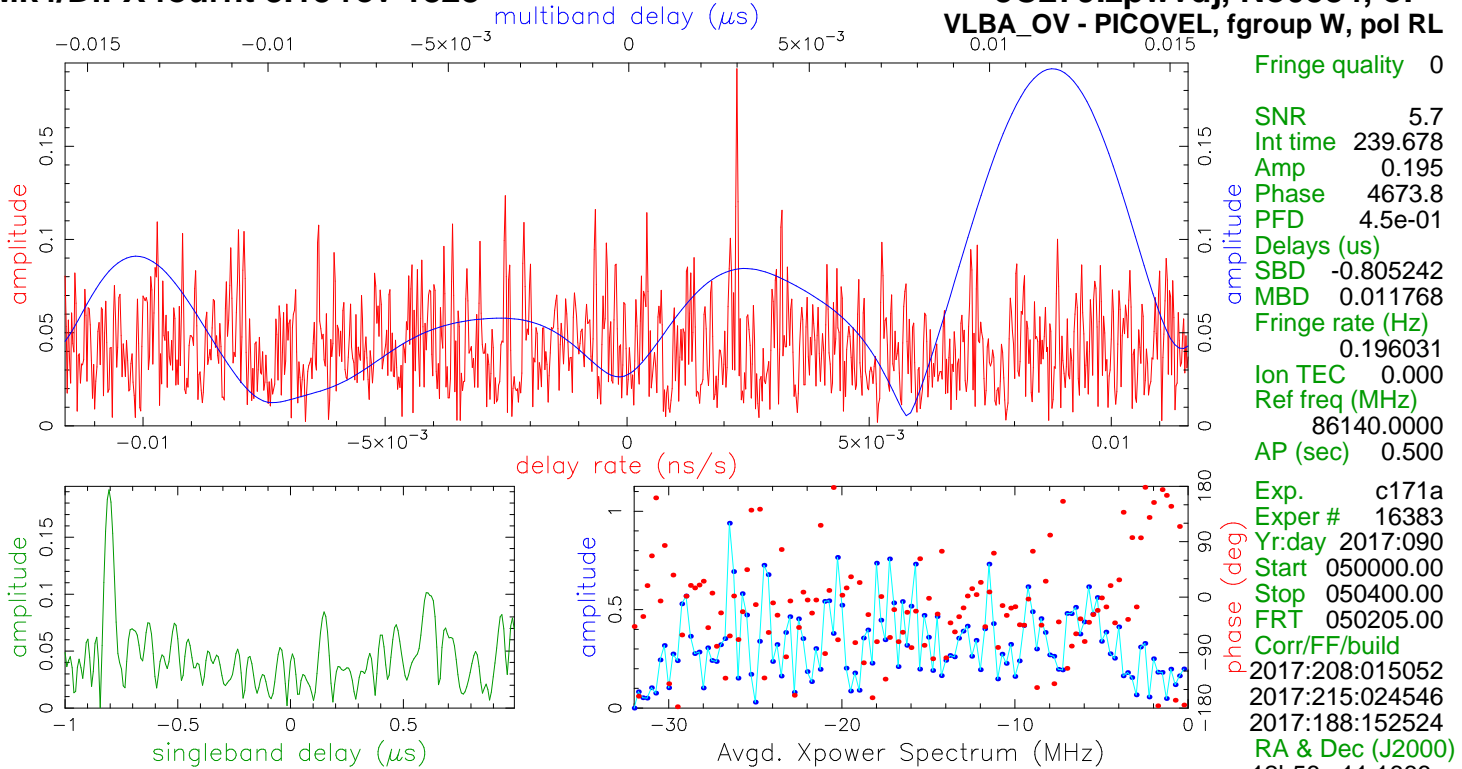
amp/seg (%) 73.3 85.0 Inc. seg. avg. 0.261 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 35.6 28.7 Inc. frq. avg. 0.241 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

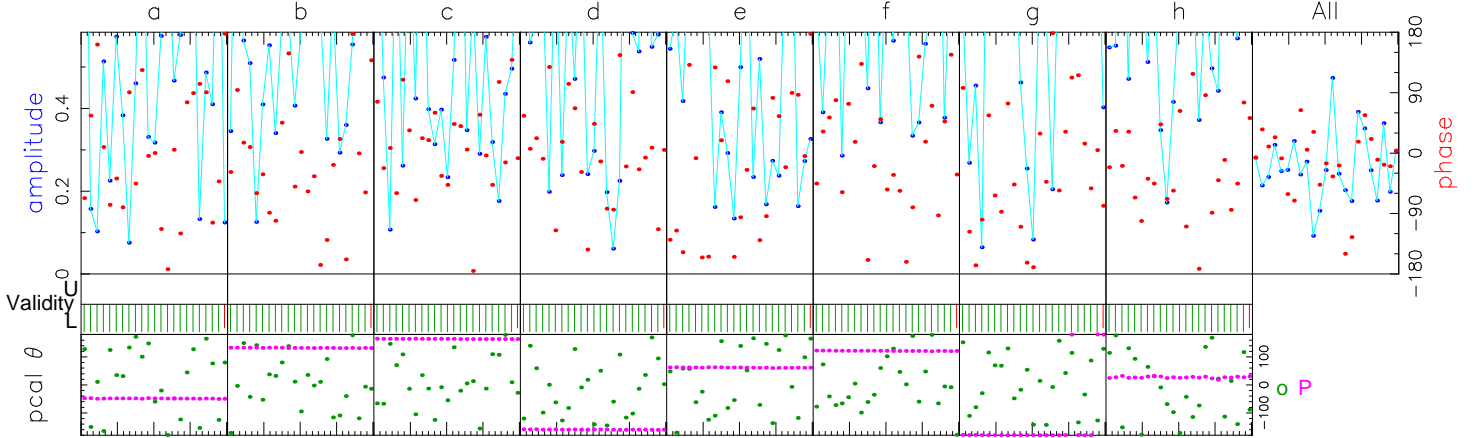
amp/frq (%) 49.0 50.1 Data rate (Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 ion window (TEC) 0.00 0.00

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.107.zpwwdj 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
-38.3	-25.3	17.5	2.6	-120.1	2.2	5.9	-23.8	Phase	-6.2
0.1	0.2	0.3	0.4	0.0	0.2	0.2	0.3	Ampl.	0.2
85.1	250.7	254.4	25.6	147.8	206.2	219.0	25.7	Sbd box	25.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
o	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000		
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Tracks	
								Chan ids	
								Tracks	

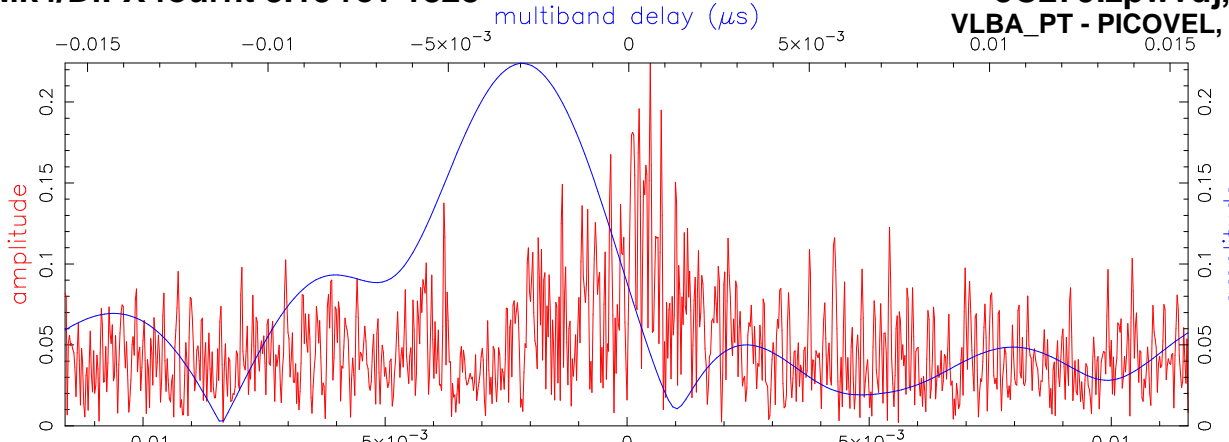
Group delay (usec)(sbd)	4.51776578982E+03	Apriori delay (usec)	4.51856652159E+03	Resid mbdelay (usec)	1.17682E-02	+/-	3.8E-04
Sband delay (usec)	4.51776128009E+03	Apriori clock (usec)	1.7603902E+00	Resid sbdelay (usec)	-8.05242E-01	+/-	3.0E-03
Phase delay (usec)	4.51856652139E+03	Apriori clockrate (us/s)	-2.6215607E-07	Resid phdelay (usec)	-1.99591E-07	+/-	6.4E-07
Delay rate (us/s)	2.05039521031E+00	Apriori rate (us/s)	2.05039293458E+00	Resid rate (us/s)	2.27573E-06	+/-	4.6E-09
Total phase (deg)	4735.0	Apriori accel (us/s/s)	-2.40409441931E-05	Resid phase (deg)	4673.8	+/-	20.0

ph/seg (deg)	51.1	Theor.	47.9	Amplitude	0.195 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	55.9	Search (1024X32)	0.177	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	50.9	Inc. seg. avg.	0.196	Inc. seg. avg.	0.188	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	51.9	Inc. frq. avg.	0.188	Inc. frq. avg.	0.188	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	t_cohere	infinite
								ion window (TEC)	0.00 0.00

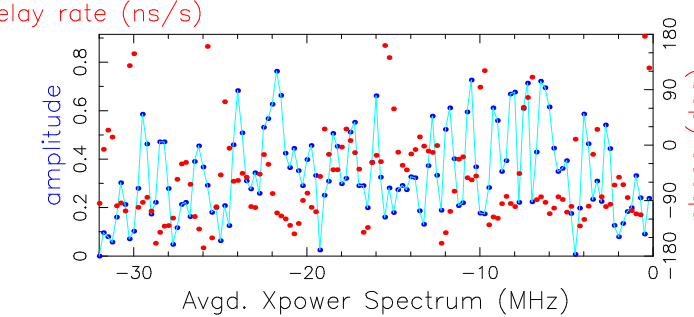
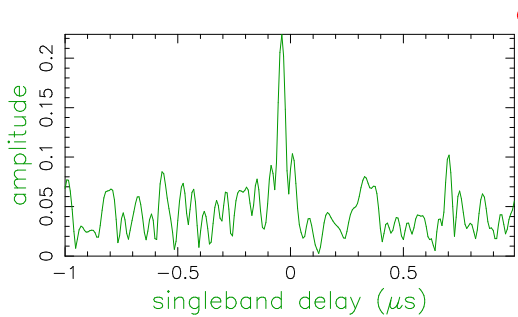
o: az 122.6 el 27.4 pa -42.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11821.231 207.646 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/oP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/oP.W.108.zpwwdj



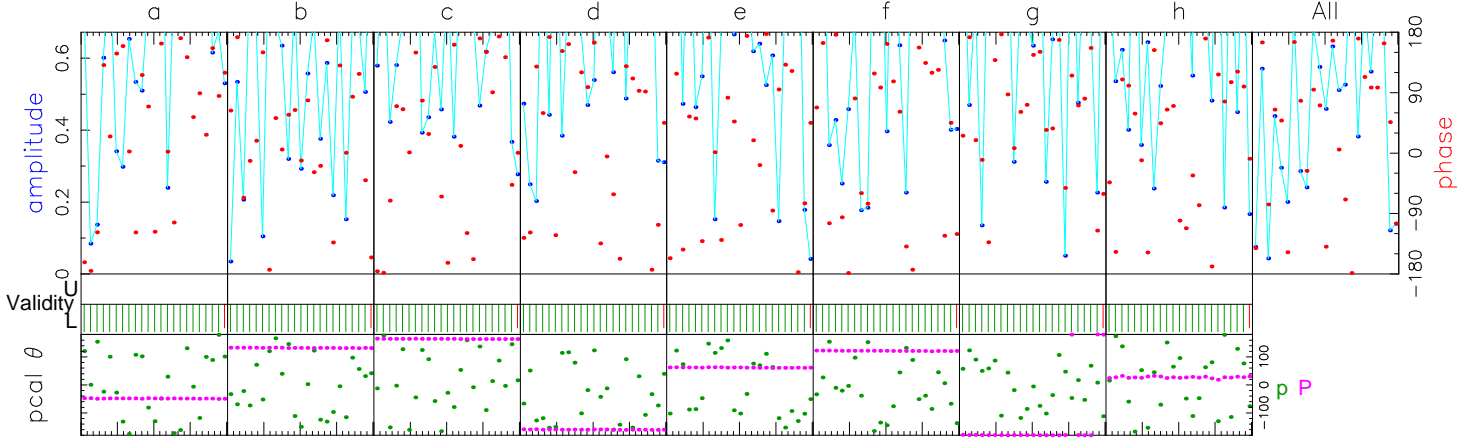


Fringe quality 0  
SNR 6.7  
Int time 239.675  
Amp 0.224  
Phase 310.9  
PFD 1.4e-03  
Delays (us)  
SBD -0.039437  
MBD -0.002961  
Fringe rate (Hz) 0.041764  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024547  
2017:188:152524  
RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



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

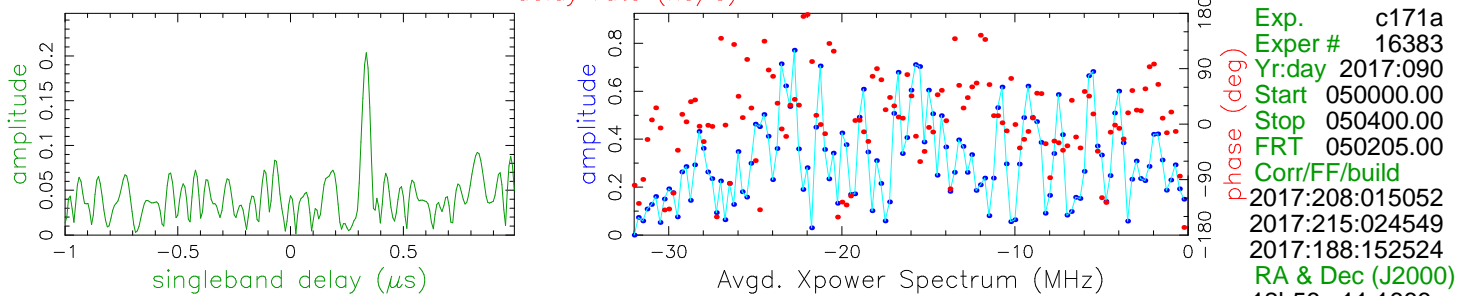
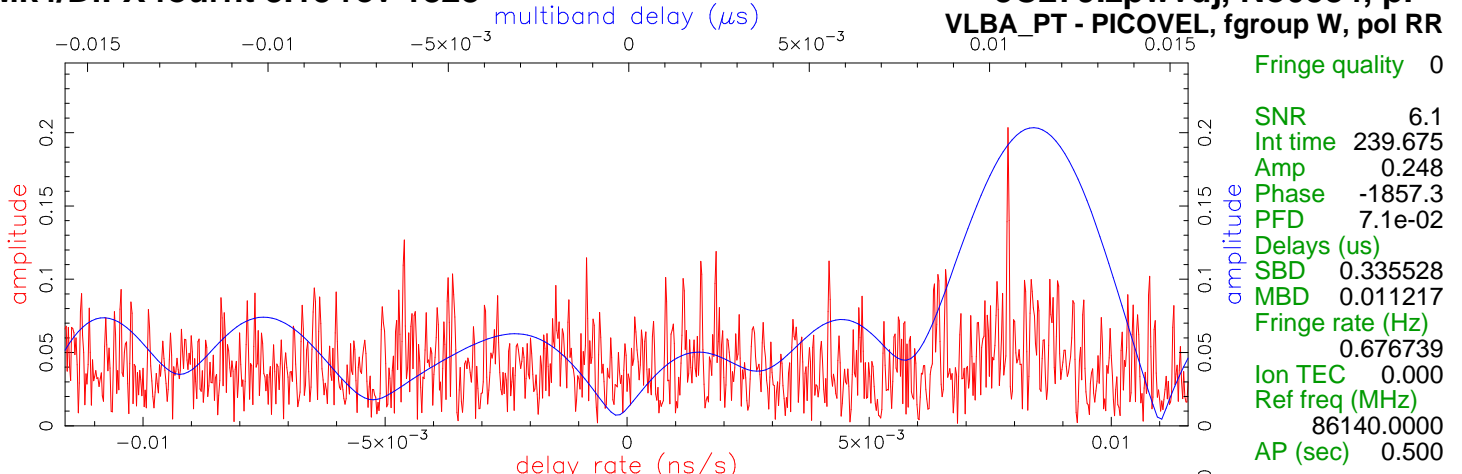


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
118.2	66.9	150.9	158.1	144.8	135.6	110.6	115.1	Phase	130.9
0.3	0.1	0.3	0.2	0.2	0.4	0.3	0.1	Ampl.	0.2
125.5	233.1	184.0	1.9	57.5	123.6	123.4	240.4	Sbd box	124.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

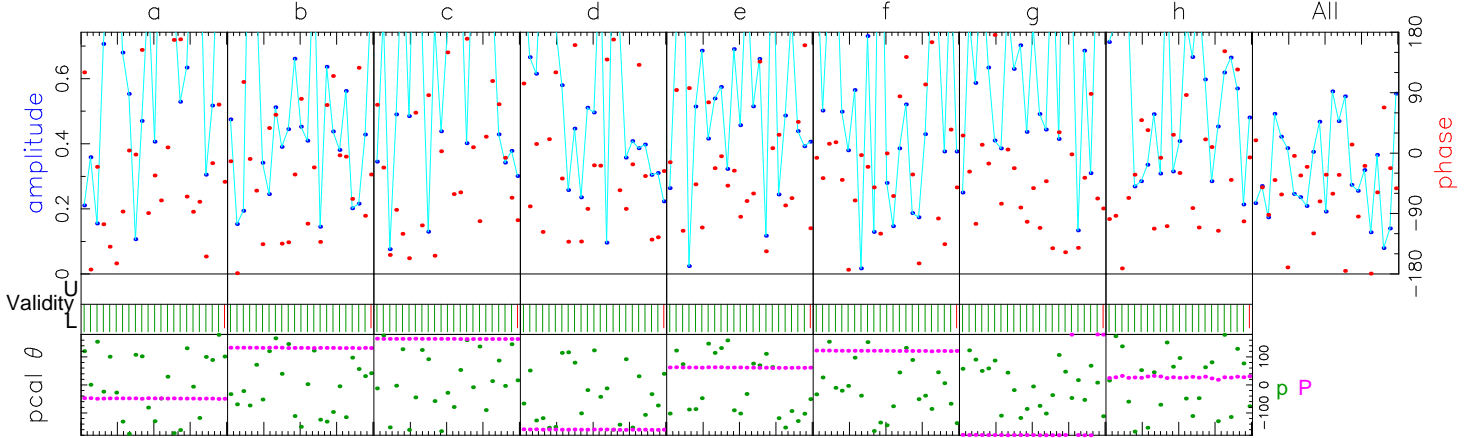
Group delay (usec)(sbd)	7.15203581164E+03	Apriori delay (usec)	7.15207002274E+03	Resid mbdelay (usec)	-2.96110E-03	+/-	3.2E-04
Sband delay (usec)	7.15203058574E+03	Apriori clock (usec)	1.9574981E+00	Resid sbdelay (usec)	-3.94370E-02	+/-	2.6E-03
Phase delay (usec)	7.15207002696E+03	Apriori clockrate (us/s)	-2.5546530E-07	Resid phdelay (usec)	4.22118E-06	+/-	5.5E-07
Delay rate (us/s)	1.92006016600E+00	Apriori rate (us/s)	1.92005968115E+00	Resid rate (us/s)	4.84843E-07	+/-	4.0E-09
Total phase (deg)	223.9	Apriori accel (us/s/s)	-3.75647795017E-05	Resid phase (deg)	310.9	+/-	17.1

ph/seg (deg)	84.3	Theor.	41.0	Amplitude	0.224 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	155.2	Search (1024X32)	0.210	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	32.4	Inc. seg. avg.	0.373	Inc. seg. avg.	0.373	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	40.7	Inc. frq. avg.	0.223	Inc. frq. avg.	0.223	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11080.698 -47.320 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.109.zpwwdj



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



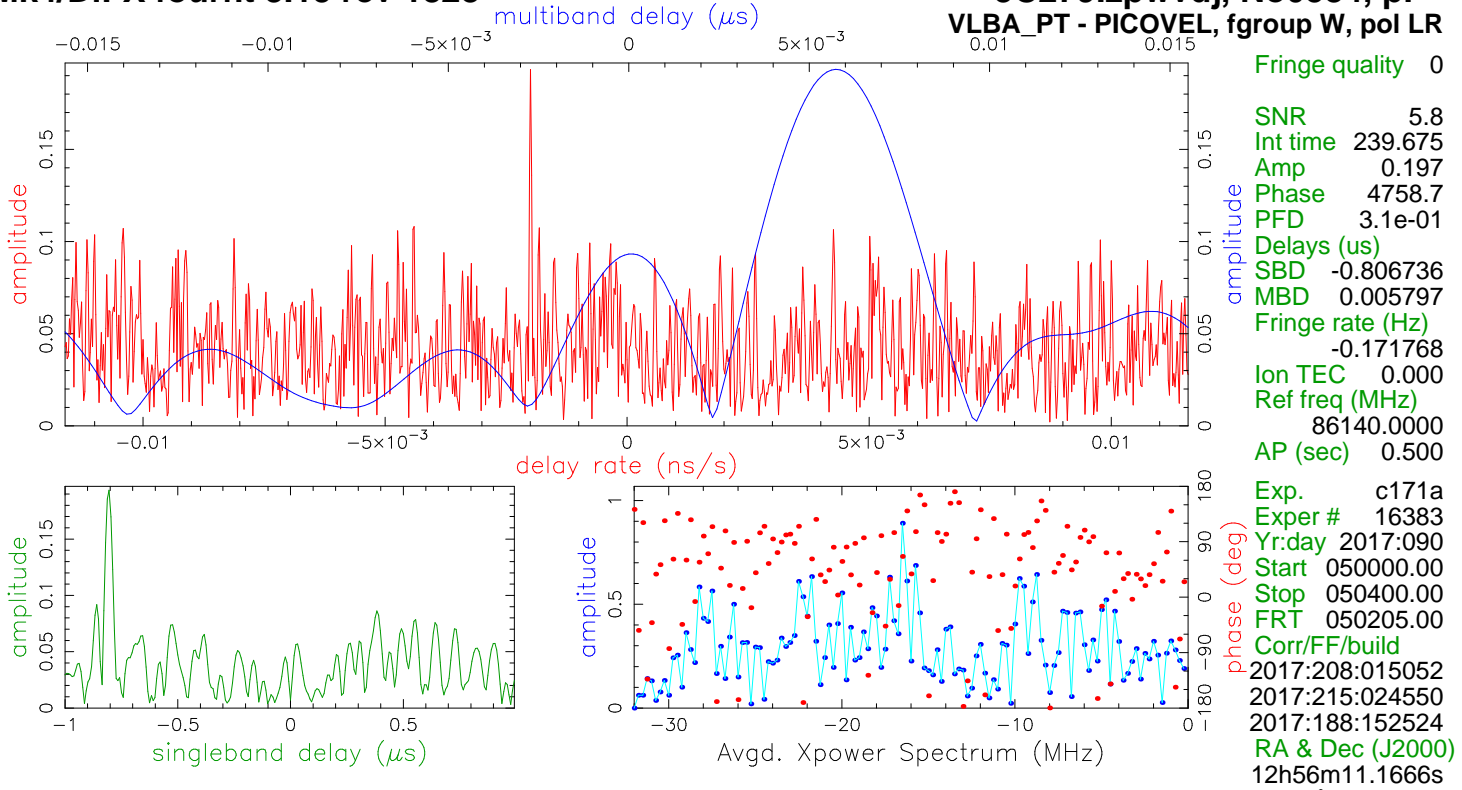
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-84.9	-21.3	-52.9	-62.9	-51.3	-33.3	-59.5	-77.4	Phase	-57.3
	0.4	0.3	0.2	0.1	0.3	0.2	0.4	0.2	Ampl.	0.2
	173.6	119.4	252.6	91.4	170.9	99.9	171.2	225.3	Sbd box	171.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	7.15239373992E+03	Apriori delay (usec)	7.15207002274E+03	Resid mbdelay (usec)	1.12172E-02	+/-	3.6E-04
Sband delay (usec)	7.15240555124E+03	Apriori clock (usec)	1.9574981E+00	Resid sbdelay (usec)	3.35528E-01	+/-	2.8E-03
Phase delay (usec)	7.15207002089E+03	Apriori clockrate (us/s)	-2.5546530E-07	Resid phdelay (usec)	-1.84616E-06	+/-	6.1E-07
Delay rate (us/s)	1.92006753742E+00	Apriori rate (us/s)	1.92005968115E+00	Resid rate (us/s)	7.85627E-06	+/-	4.4E-09
Total phase (deg)	-1584.2	Apriori accel (us/s/s)	-3.75647795017E-05	Resid phase (deg)	-1857.3	+/-	18.8

ph/seg (deg)	60.5	Theor.	45.1	Amplitude	0.248 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	89.9	Search (1024X32)	0.183	Apriori clock (usec)	0.183	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	22.9	Interp.	0.000	Apriori clockrate (us/s)	-2.5546530E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	35.9	Inc. seg. avg.	0.297	Apriori rate (us/s)	1.92005968115E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.238	Apriori accel (us/s/s)	-3.75647795017E-05	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

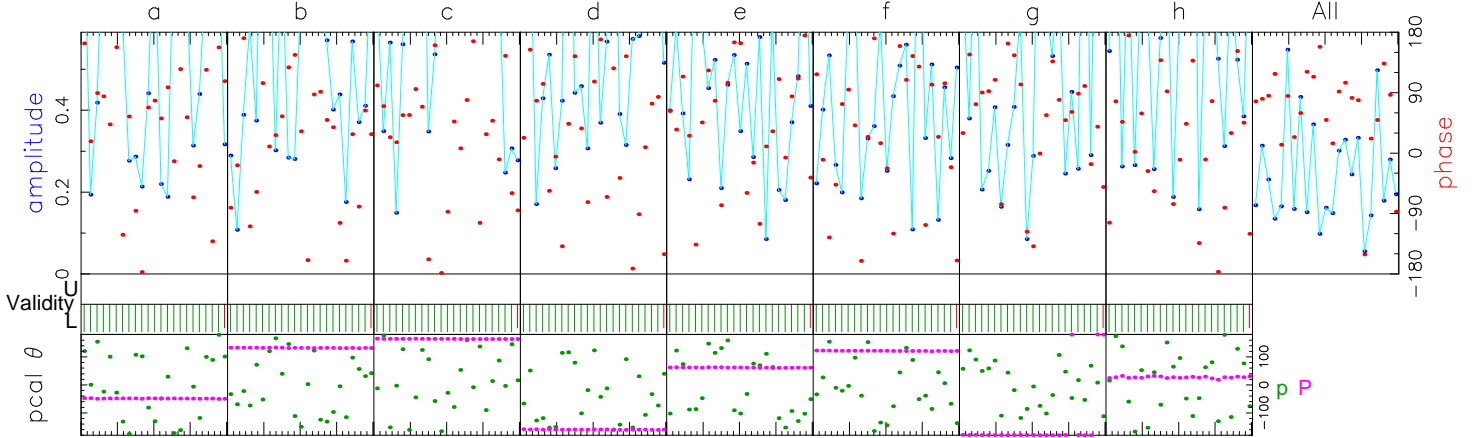
p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11080.698 -47.320 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.110.zpwvdj



Fringe quality 0  
 SNR 5.8  
 Int time 239.675  
 Amp 0.197  
 Phase 4758.7  
 PFD 3.1e-01  
 Delays (us)  
 SBD -0.806736  
 MBD 0.005797  
 Fringe rate (Hz)  
 -0.171768  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024550  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5° 47' 21.525"

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	
102.7	60.7	59.8	83.0	96.6	102.8	70.2	78.0	Phase	78.7	
0.2	0.2	0.3	0.2	0.1	0.3	0.3	0.2	Ampl.	0.2	
30.9	18.2	191.3	108.7	79.9	186.1	24.7	136.0	Sbd box	25.7	
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used		
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
p:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
p:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC		
p 1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
P 1000	1000	1000	1000	1000	1000	1000	1000			
p 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)	7.15126332013E+03	Apriori delay (usec)		7.15207002274E+03	Resid mbdelay (usec)		5.79740E-03	+/-	3.7E-04	
Sband delay (usec)	7.15126328674E+03	Apriori clock (usec)		1.9574981E+00	Resid sbdelay (usec)		-8.06736E-01	+/-	3.0E-03	
Phase delay (usec)	7.15207002527E+03	Apriori clockrate (us/s)		-2.5546530E-07	Resid phdelay (usec)		2.53656E-06	+/-	6.3E-07	
Delay rate (us/s)	1.92005768710E+00	Apriori rate (us/s)		1.92005968115E+00	Resid rate (us/s)		-1.99405E-06	+/-	4.6E-09	
Total phase (deg)	5031.7		Apriori accel (us/s/s)		-3.75647795017E-05	Resid phase (deg)		4758.7	+/-	19.7

ph/seg (deg) 56.3 69.6  
 amp/seg (%) 69.6 82.4  
 ph/frq (deg) 19.4 27.8  
 amp/frq (%) 32.9 48.6

RMS Theor. Amplitude 0.197 +/- 0.034  
 Search (1024X32) 0.191  
 Interp. 0.000  
 Inc. seg. avg. 0.185  
 Inc. frq. avg. 0.182

Group delay (usec)(sbd) 7.15126332013E+03  
 Sband delay (usec) 7.15126328674E+03  
 Phase delay (usec) 7.15207002527E+03  
 Delay rate (us/s) 1.92005768710E+00  
 Total phase (deg) 5031.7

Apriori delay (usec) 7.15207002274E+03  
 Apriori clock (usec) 1.9574981E+00  
 Apriori clockrate (us/s) -2.5546530E-07  
 Apriori rate (us/s) 1.92005968115E+00  
 Apriori accel (us/s/s) -3.75647795017E-05

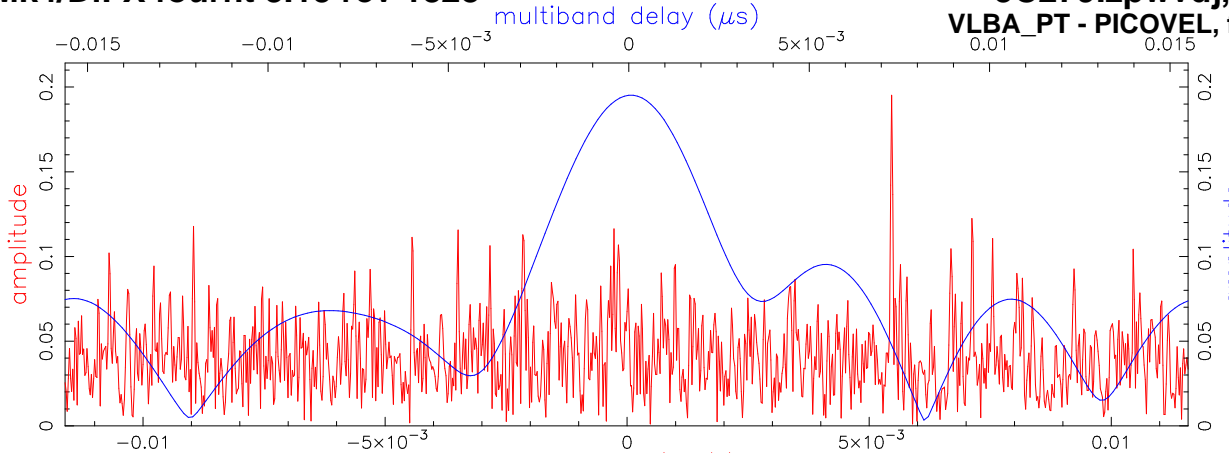
Resid mbdelay (usec) 5.79740E-03  
 Resid sbdelay (usec) -8.06736E-01  
 Resid phdelay (usec) 2.53656E-06  
 Resid rate (us/s) -1.99405E-06  
 Resid phase (deg) 4758.7

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

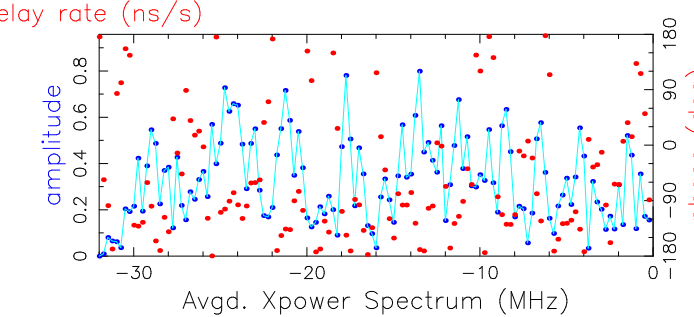
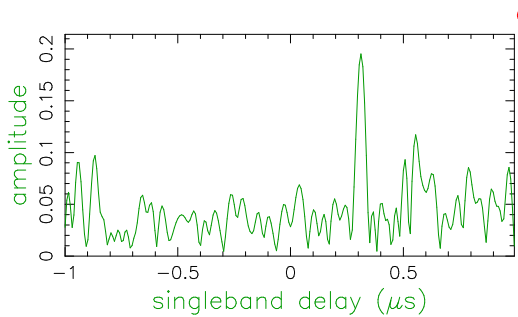
PC period (AP's) 5, 5  
 sb window (us) -1.000 1.000  
 SampCntNorm: enabled  
 mb window (us) -0.016 0.016  
 dr window (ns/s) -0.012 0.012  
 ion window (TEC) 0.00 0.00

p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11080.698 -47.320  
 simultaneous interpolator

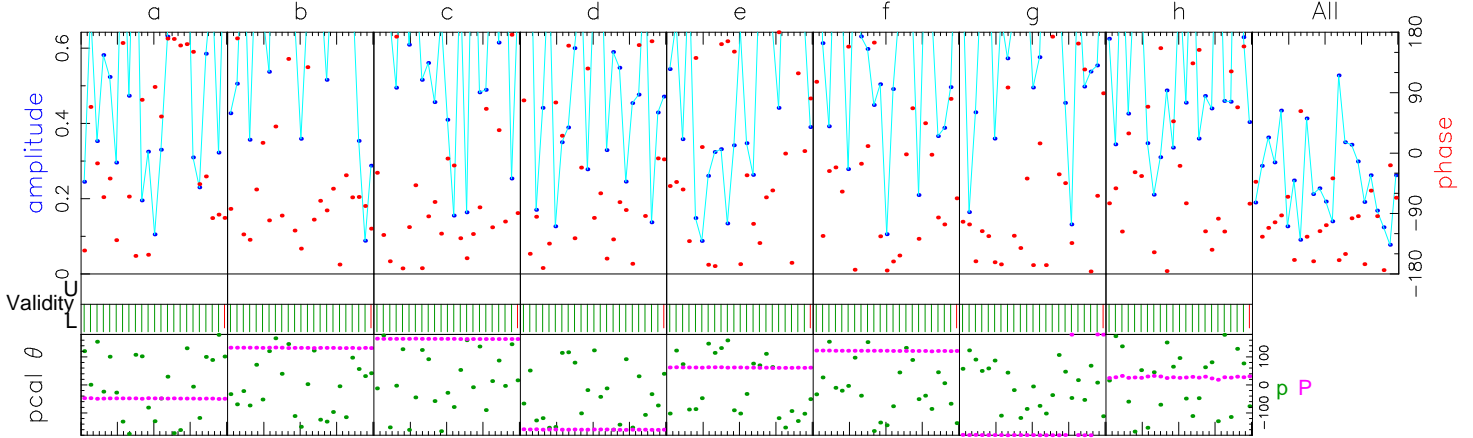
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.111.zpwvdj



Fringe quality 0  
 SNR 5.8  
 Int time 239.675  
 Amp 0.214  
 Phase -1912.8  
 PFD 2.8e-01  
 Delays (us)  
 SBD 0.312279  
 MBD 0.000066  
 Fringe rate (Hz) 0.471049  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024551  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



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

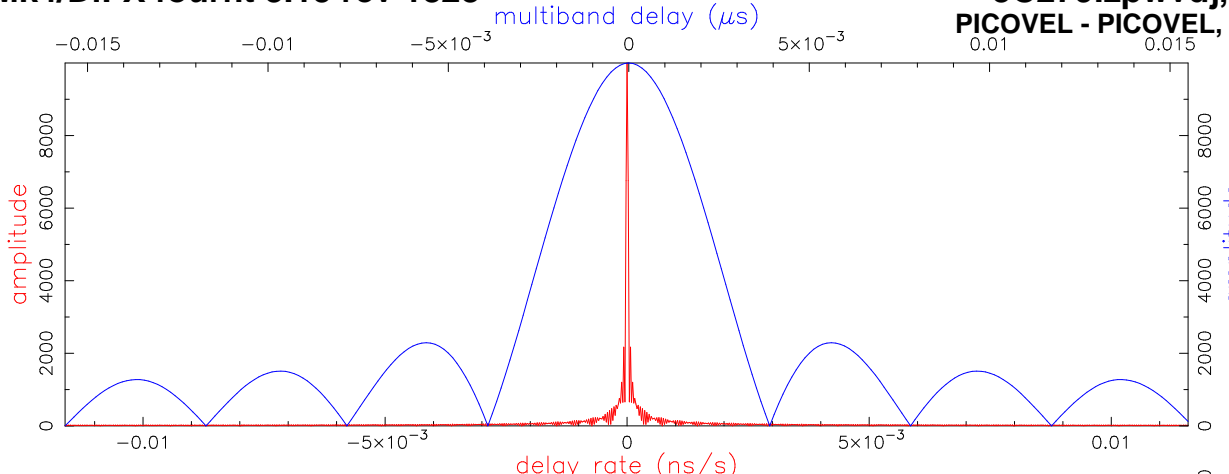


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

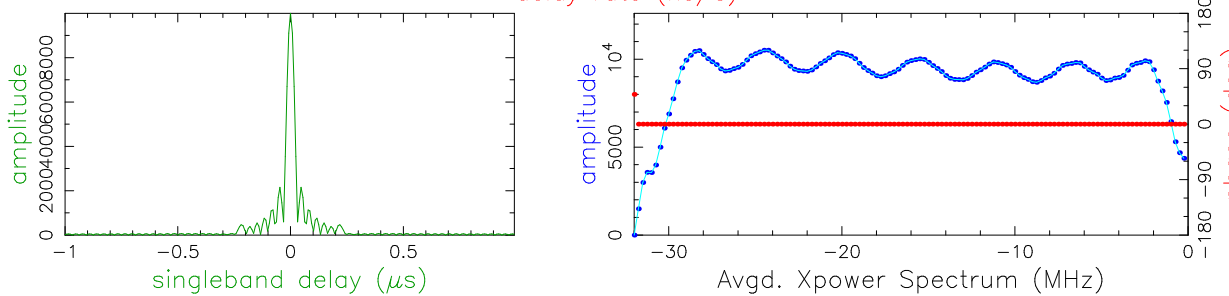
Group delay (usec)(sbd) 7.15238258911E+03 Apriori delay (usec) 7.15207002274E+03 Resid mbdelay (usec) 6.63710E-05 +/- 3.7E-04  
 Sband delay (usec) 7.15238230174E+03 Apriori clock (usec) 1.9574981E+00 Resid sbdelay (usec) 3.12279E-01 +/- 2.9E-03  
 Phase delay (usec) 7.15207001910E+03 Apriori clockrate (us/s) -2.5546530E-07 Resid phdelay (usec) -3.63749E-06 +/- 6.3E-07  
 Delay rate (us/s) 1.92006514957E+00 Apriori rate (us/s) 1.92005968115E+00 Resid rate (us/s) 5.46841E-06 +/- 4.6E-09  
 Total phase (deg) -1639.8 Apriori accel (us/s/s) -3.75647795017E-05 Resid phase (deg) -1912.8 +/- 19.6

RMS Theor. Amplitude 0.214 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 56.9 47.0 Search (1024X32) 0.190 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 65.2 82.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 39.1 27.7 Inc. seg. avg. 0.208 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 (%) 53.2 48.4 Inc. frq. avg. 0.217 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

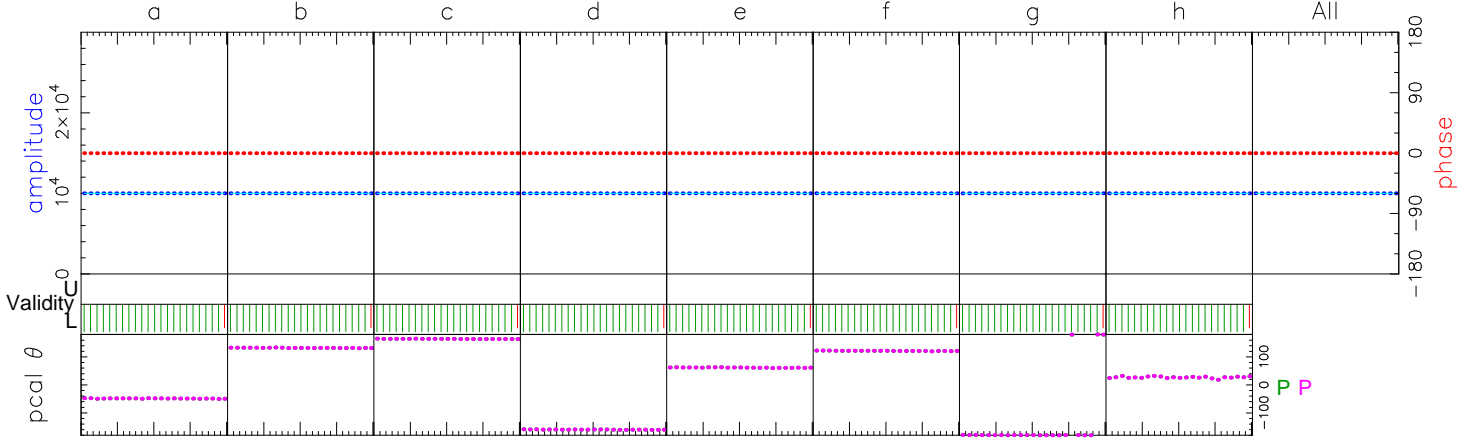
p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11080.698 -47.320 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.112.zpwwdj



Fringe quality 9  
 SNR 299458.6  
 Int time 239.833  
 Amp 9999.993  
 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 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024621  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



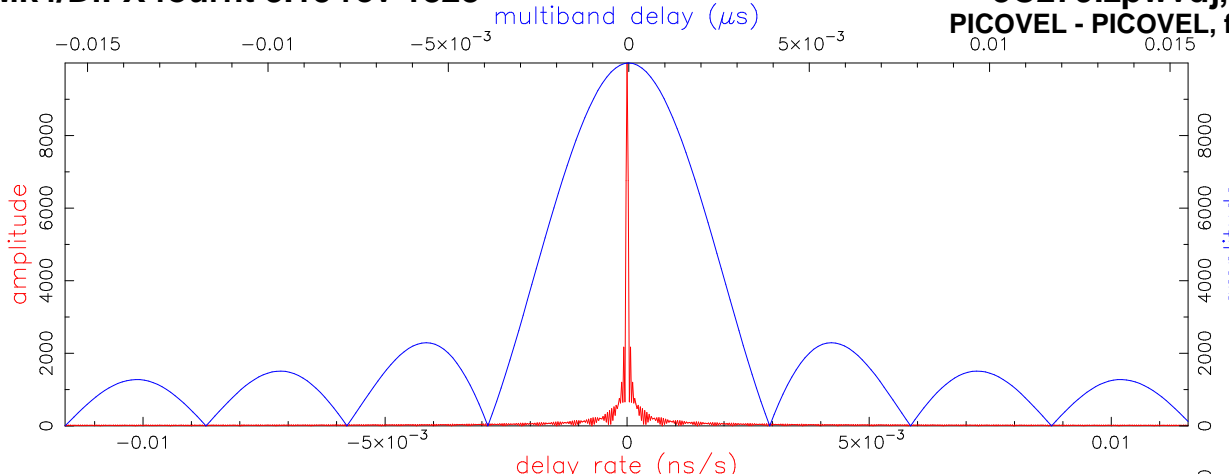
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



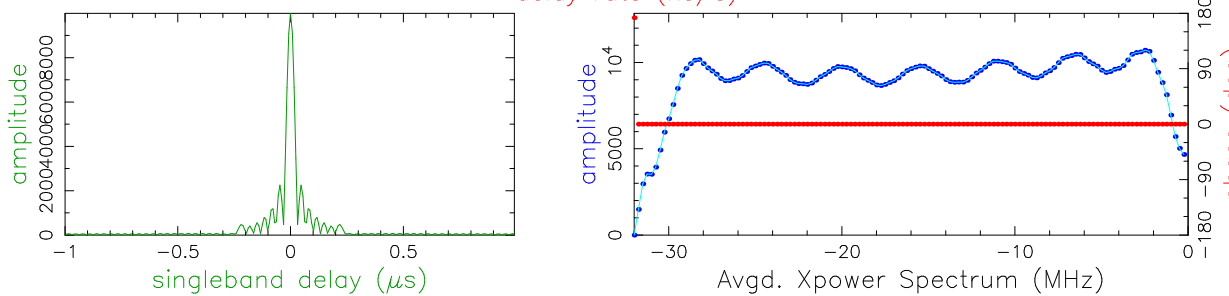
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
P 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.2E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-14		
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

RMS Theor. Amplitude 9999.993 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.994 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 dr window (ns/s) -0.012 0.012  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.993 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

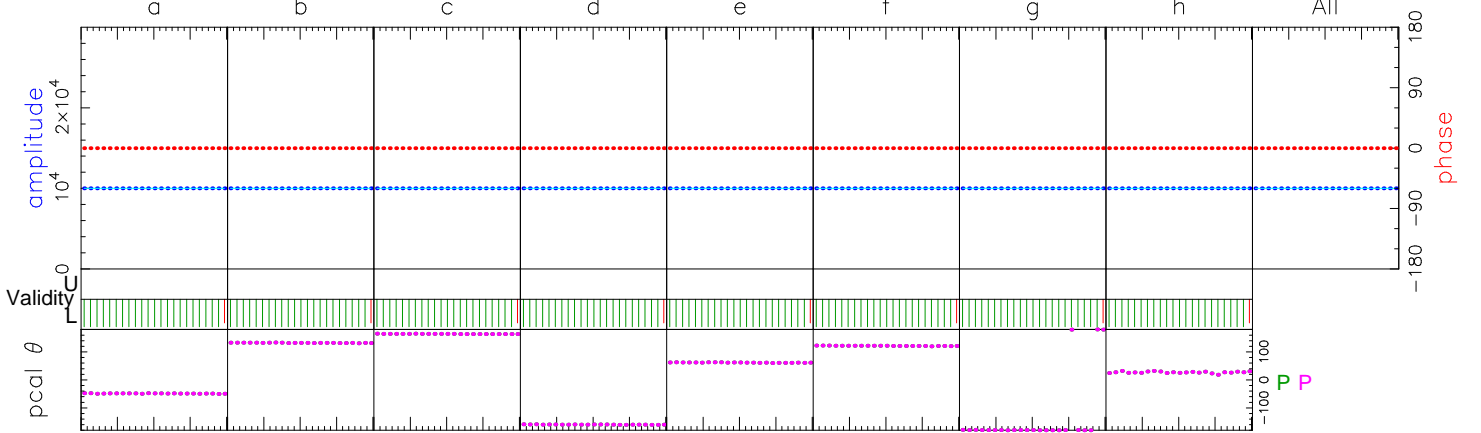




Fringe quality 9  
 SNR 299458.6  
 Int time 239.833  
 Amp 9999.993  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024622  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

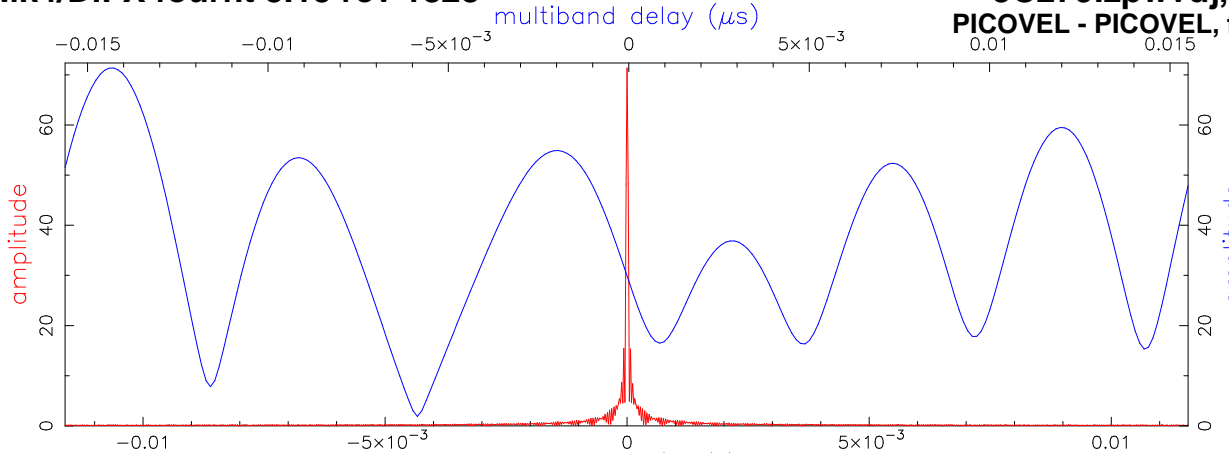


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	10000.0	0.0
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	10000.0	0.0
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	10000.0	10000.0
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	129.0	129.0
P	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
P	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	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	0.00000E+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	0.00000E+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	0.00000E+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	0.00000E+00	+/- 8.9E-14
Total phase (deg)			0.0						0.0	+/- 0.0

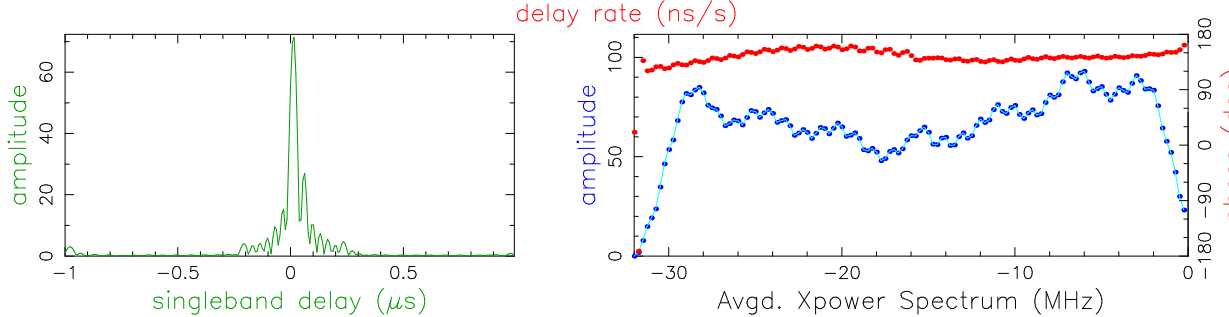
ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.993 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 9999.994 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (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  
 P: az 250.4 el 15.1 pa 49.1 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/PP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/PP.W.142.zpwvdj



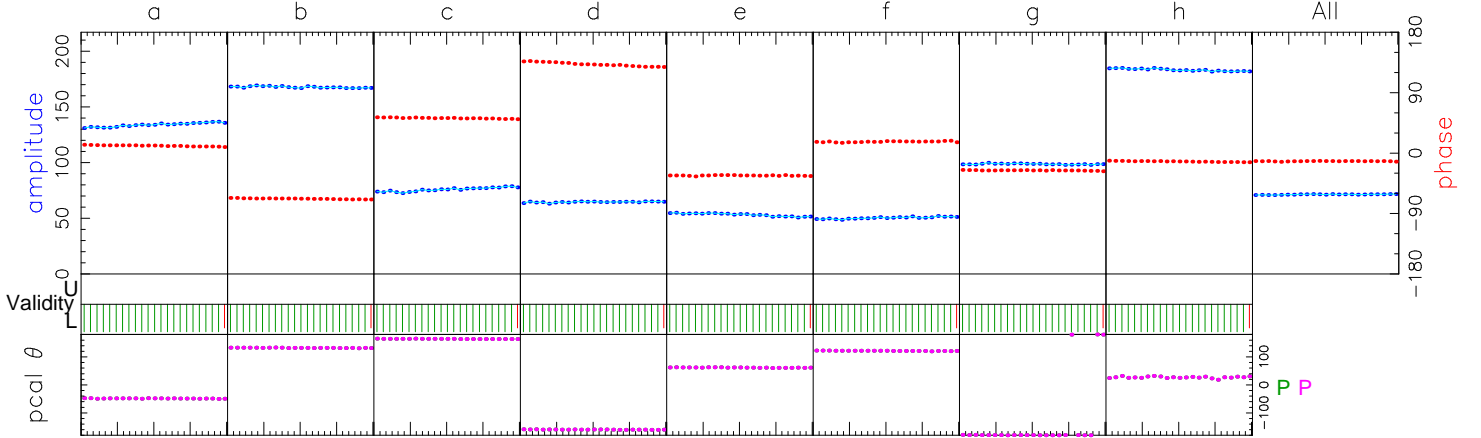
Fringe quality 5

SNR 2167.3  
Int time 239.833  
Amp 72.375  
Phase -192.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.012707  
MBD -0.014337  
Fringe rate (Hz)  
0.000042  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024623  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

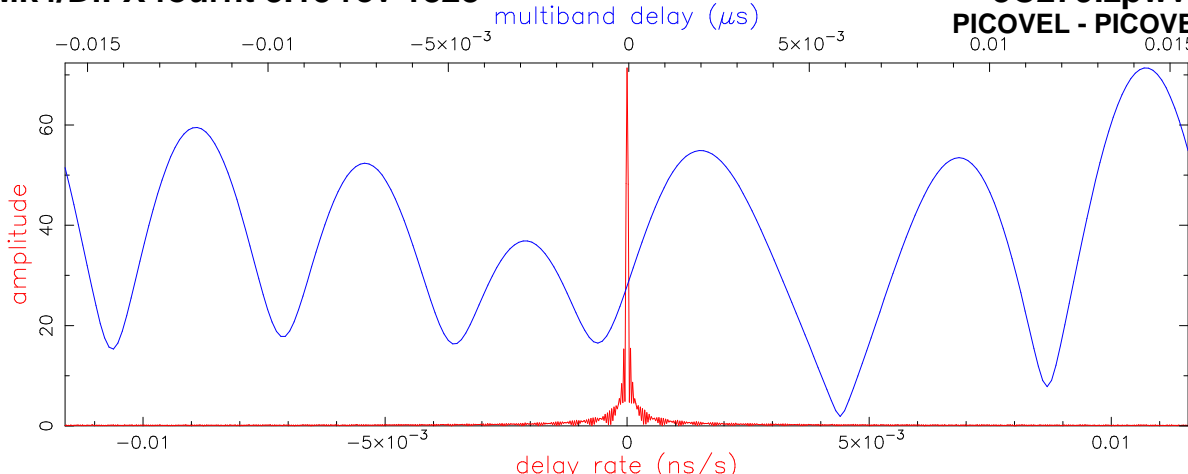


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	10.9	-67.9	52.0	132.2	-33.4	16.9	-25.8	-12.5	Phase	-12.1
	134.0	167.8	75.9	64.6	53.3	50.4	98.7	183.3	Ampl.	103.5
	131.4	129.9	132.6	132.2	132.7	130.6	131.3	131.6	Sbd box	130.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	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)		1.69133750000E-02		Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	-1.43366E-02	+/-	1.0E-06
Sband delay (usec)		1.27070000000E-02		Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	1.27070E-02	+/-	7.9E-06
Phase delay (usec)		-3.902487724E-07		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-3.90249E-07	+/-	1.7E-09
Delay rate (us/s)		4.89029486882E-10		Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	4.89029E-10	+/-	1.2E-11
Total phase (deg)			-192.1	Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	-192.1	+/-	0.1

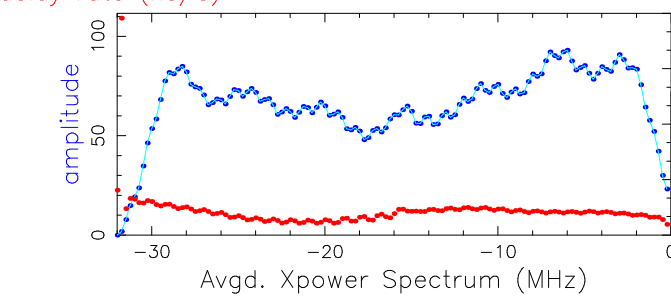
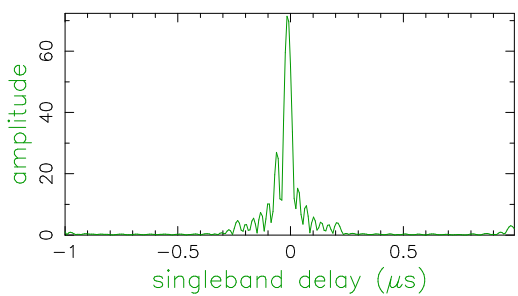
RMS Theor. Amplitude 72.375 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.3 0.1 Search (1024X32) 70.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 1.4 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 70.8 0.1 Inc. seg. avg. 71.391 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 (%) 80.0 0.1 Inc. frq. avg. 103.484 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00



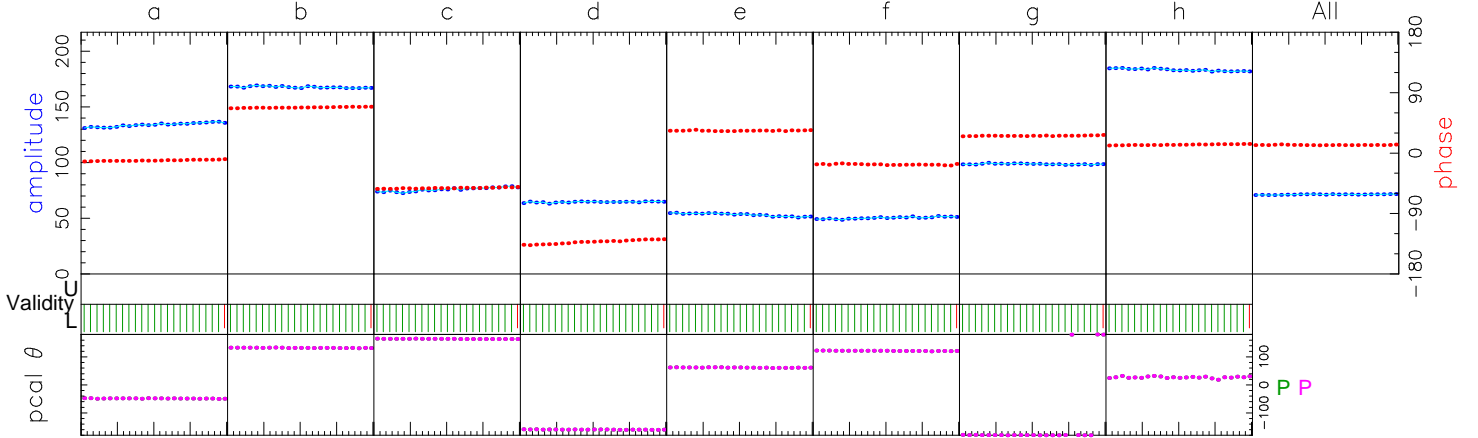
Fringe quality 5

SNR 2167.3  
Int time 239.833  
Amp 72.375  
Phase 192.1  
PFD 0.0e+00  
Delays (us)  
SBD -0.012707  
MBD 0.014337  
Fringe rate (Hz)  
-0.000042  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024624  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

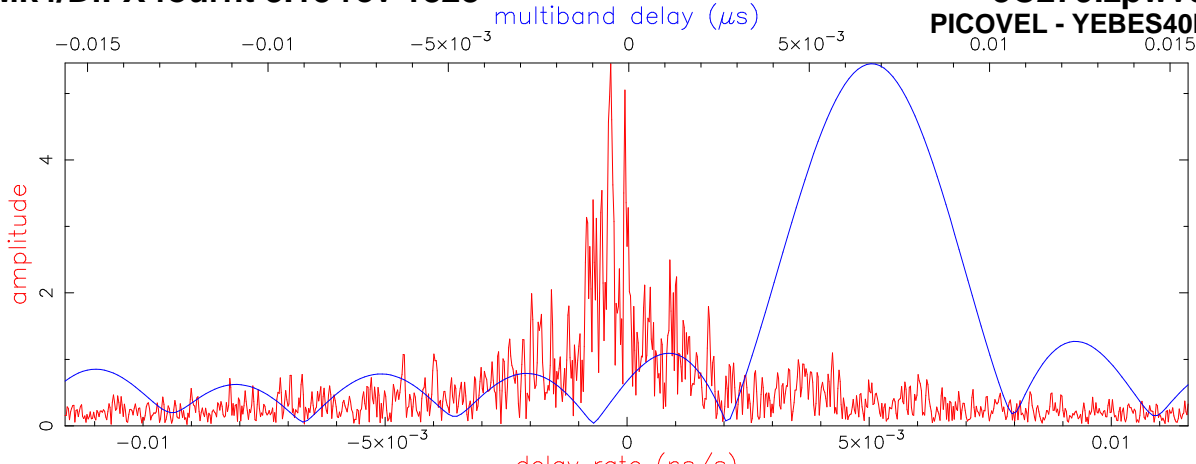


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-10.9	67.9	-52.0	-132.2	33.4	-16.9	25.8	12.5	Phase	12.1
134.0	167.8	75.9	64.6	53.3	50.4	98.7	183.3	Ampl.	103.5
126.6	128.1	125.4	125.8	125.3	127.4	126.7	126.4	Sbd box	127.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.69133750000E-02		Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	1.43366E-02	+/-	1.0E-06
Sband delay (usec)	-1.27070000000E-02		Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	-1.27070E-02	+/-	7.9E-06
Phase delay (usec)	3.90248788194E-07		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	3.90249E-07	+/-	1.7E-09
Delay rate (us/s)	-4.89029486882E-10		Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	-4.89029E-10	+/-	1.2E-11
Total phase (deg)		192.1	Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	192.1	+/-	0.1

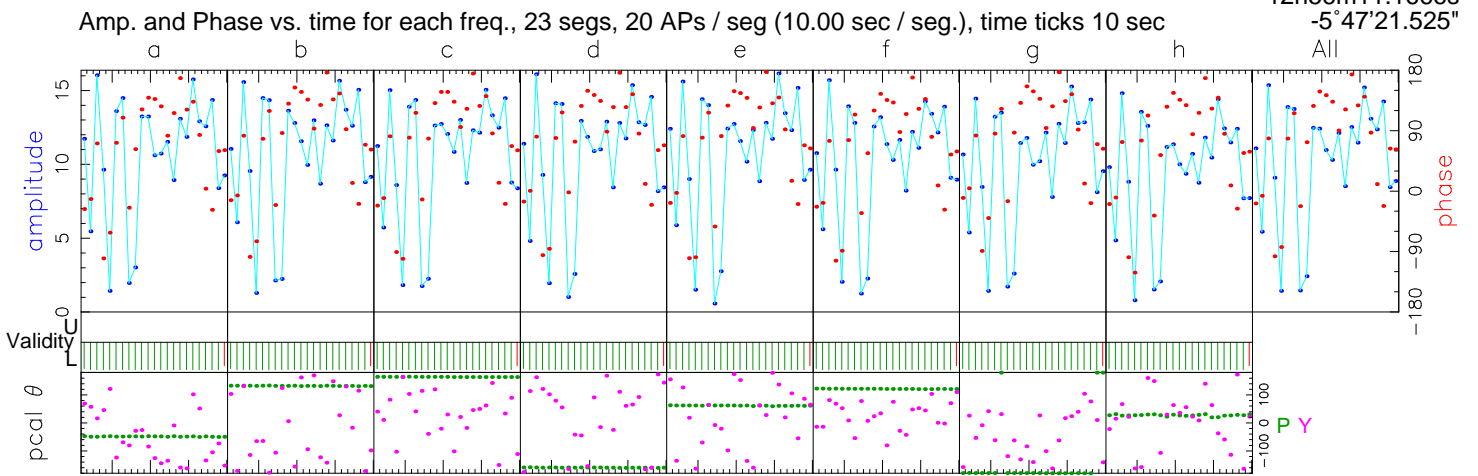
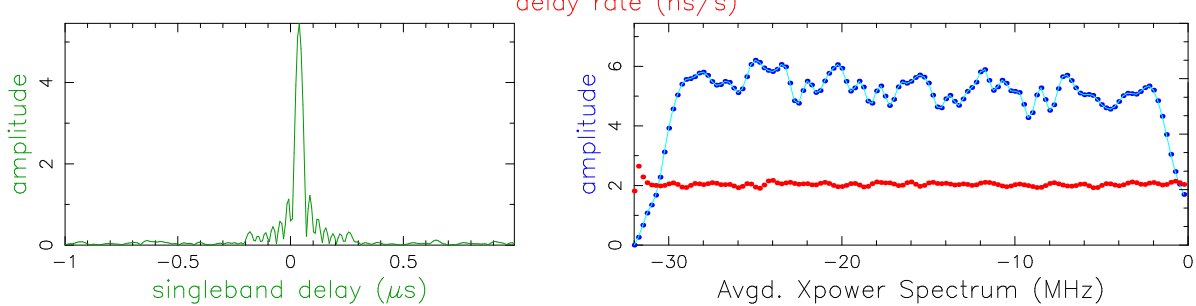
ph/seg (deg) 0.3 0.1 Theor. Amplitude 72.375 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 1.4 0.2 Search (1024X32) 70.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 70.8 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 80.0 0.1 Inc. seg. avg. 71.391 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 P: az 250.4 el 15.1 pa 49.1 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/PP.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/PP.W.144.zpvdj



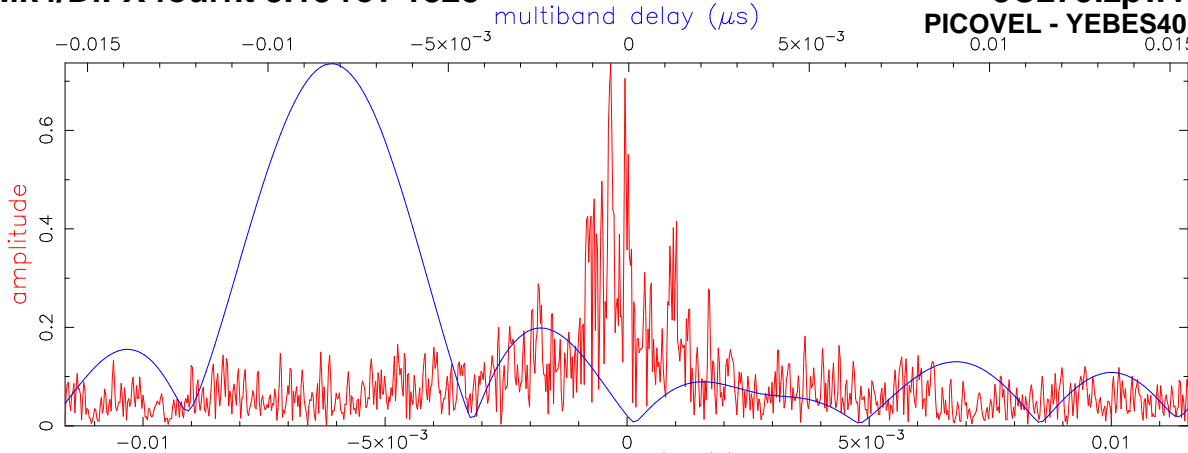
Fringe quality 5

SNR 159.3  
Int time 227.772  
Amp 5.459  
Phase -81.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.037881  
MBD 0.006731  
Fringe rate (Hz)  
-0.029077  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

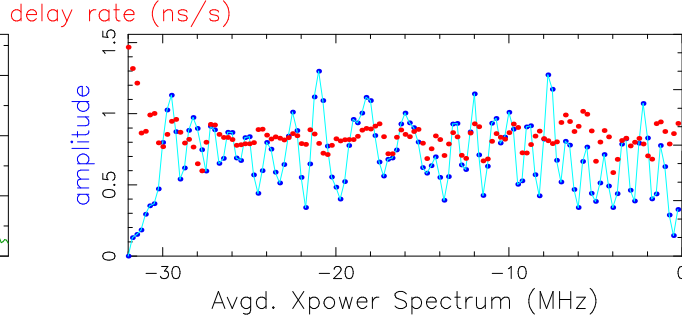
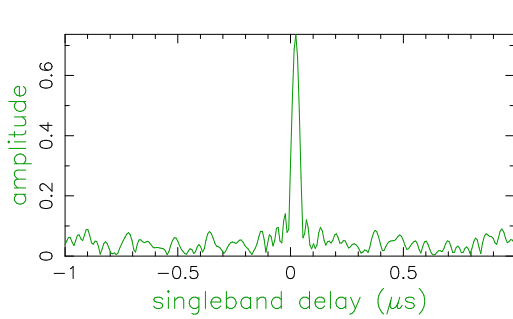
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024734  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



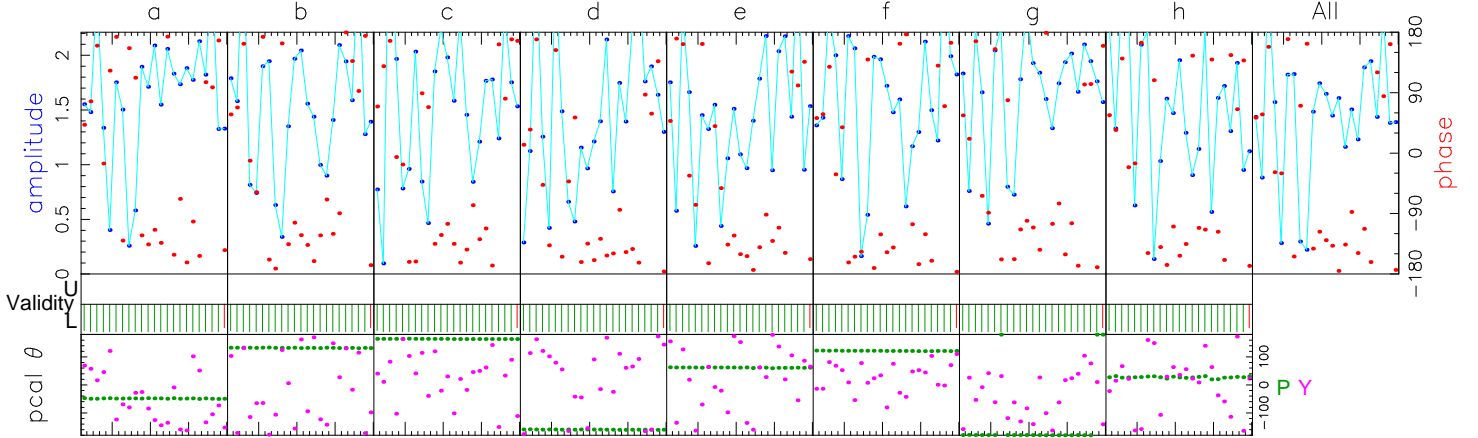
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00
92.7	103.1	101.0	99.9	101.9	94.8	102.5	95.5	99.0	99.0	99.0
5.6	5.5	5.6	5.6	5.7	5.3	5.3	5.1	5.1	5.1	5.5
134.0	134.0	133.7	133.9	133.8	133.9	134.1	133.5	133.5	133.5	133.8
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000
P:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
P:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
P 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	W08LL	W09LL	W10LL
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	W08LL	W09LL	W10LL
Group delay (usec)(sbd)	4.96354722398E+02		Apriori delay (usec)	4.96316741398E+02		Resid mbdelay (usec)	6.73100E-03	+/-	1.4E-05	
Sband delay (usec)	4.96354622398E+02		Apriori clock (usec)	-3.3476164E+00		Resid sbdelay (usec)	3.78810E-02	+/-	1.1E-04	
Phase delay (usec)	4.96316744590E+02		Apriori clockrate (us/s)	5.999992E-08		Resid phdelay (usec)	3.19146E-06	+/-	2.3E-08	
Delay rate (us/s)	-5.12939710973E-02		Apriori rate (us/s)	-5.12936335393E-02		Resid rate (us/s)	-3.37558E-07	+/-	1.8E-10	
Total phase (deg)		-43.6	Apriori accel (us/s/s)	-2.11404459178E-06		Resid phase (deg)	-81.0	+/-	0.7	
RMS	78.2	1.7	Amplitude	5.459 +/- 0.034		Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	78.2	1.7	Search (1024X32)	5.393		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	115.8	3.0	Interp.	0.000		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	4.3	1.0	Inc. seg. avg.	10.308		Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012	
amp/frq (%)	3.3	1.8	Inc. frq. avg.	5.461		Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00
P: az 250.4 el 15.1 pa 49.1	Y: az 249.7 el 13.7 pa 45.9	u,v (fr/asec)	293.618 -395.784							simultaneous interpolator



Fringe quality 9  
 SNR 21.5  
 Int time 227.772  
 Amp 0.737  
 Phase -344.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.022522  
 MBD -0.008237  
 Fringe rate (Hz)  
 -0.029591  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024735  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



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

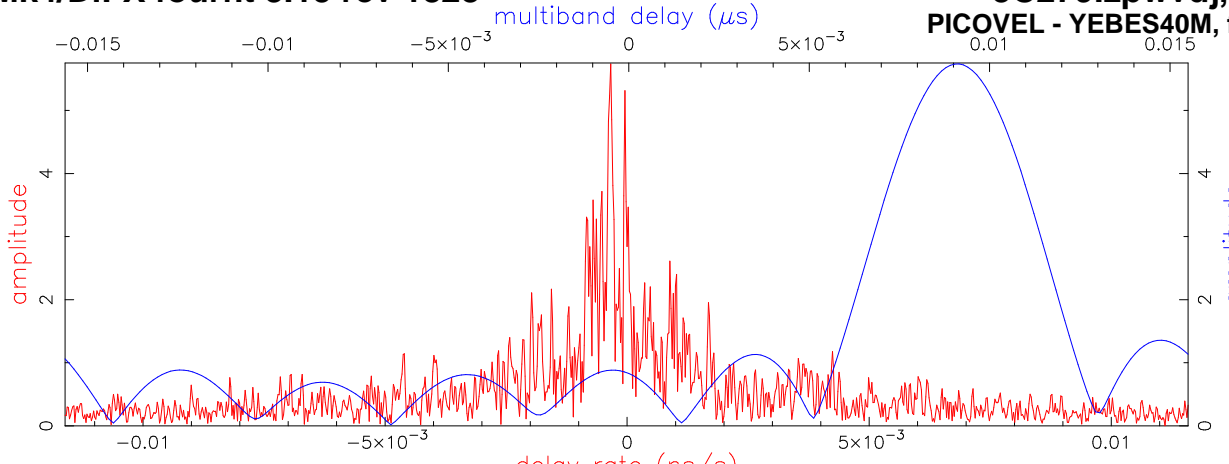


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-166.6	-164.1	-159.4	-168.1	-163.0	-178.3	-154.1	-167.6	Phase	-164.9
	0.8	0.7	0.8	0.8	0.6	0.7	0.8	0.6	Ampl.	0.7
	132.0	132.1	131.8	131.0	132.4	132.0	132.4	131.2	Sbd box	131.9
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.96339754648E+02		Apriori delay (usec)		4.96316741398E+02		Resid mbdelay (usec)		-8.23675E-03	+/- 1.0E-04
Sband delay (usec)	4.96339263898E+02		Apriori clock (usec)		-3.3476164E+00		Resid sbdelay (usec)		2.25225E-02	+/- 8.0E-04
Phase delay (usec)	4.96316736080E+02		Apriori clockrate (us/s)		5.9999992E-08		Resid phdelay (usec)		-5.31844E-06	+/- 1.7E-07
Delay rate (us/s)	-5.12939770615E-02		Apriori rate (us/s)		-5.12936335393E-02		Resid rate (us/s)		-3.43522E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.11404459178E-06		Resid phase (deg)		-344.9	+/- 5.3

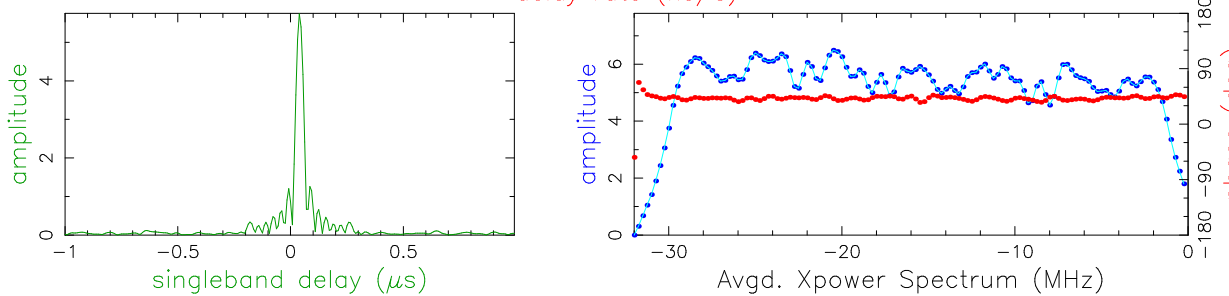
ph/seg (deg) 74.7 12.8 Theor. Amplitude 0.737 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 125.4 22.3 Search (1024X32) 0.715 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 7.6 7.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 10.9 13.2 Inc. seg. avg. 1.413 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. 0.735 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

P: az 250.4 el 15.1 pa 49.1 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) 293.618 -395.784 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/PY.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/PY.W.210.zpvdj

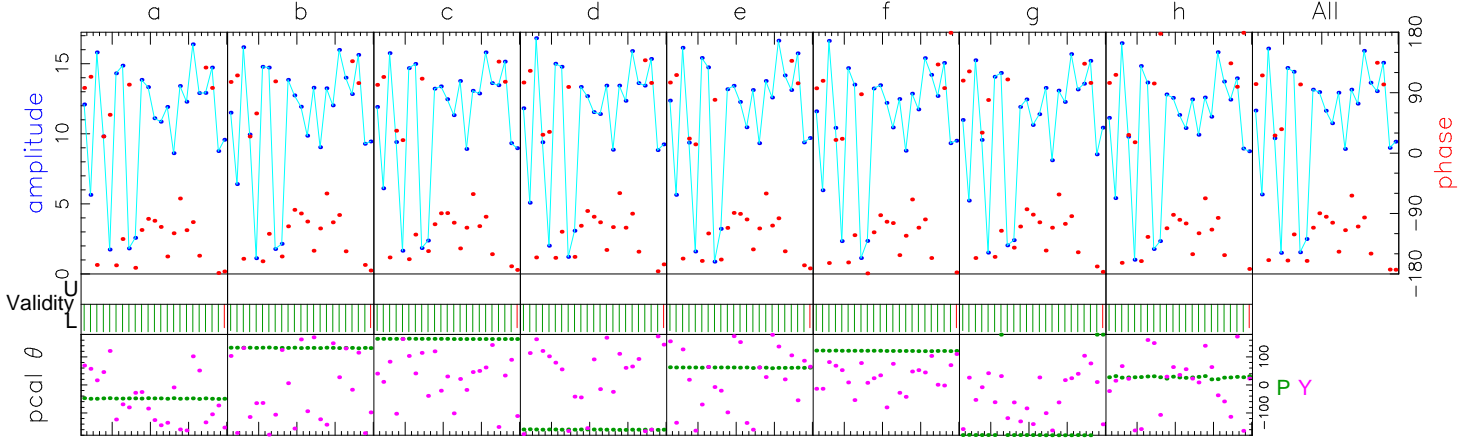




Fringe quality 5  
 SNR 167.8  
 Int time 227.772  
 Amp 5.753  
 Phase -318.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.040349  
 MBD 0.009107  
 Fringe rate (Hz)  
 -0.029103  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024736  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

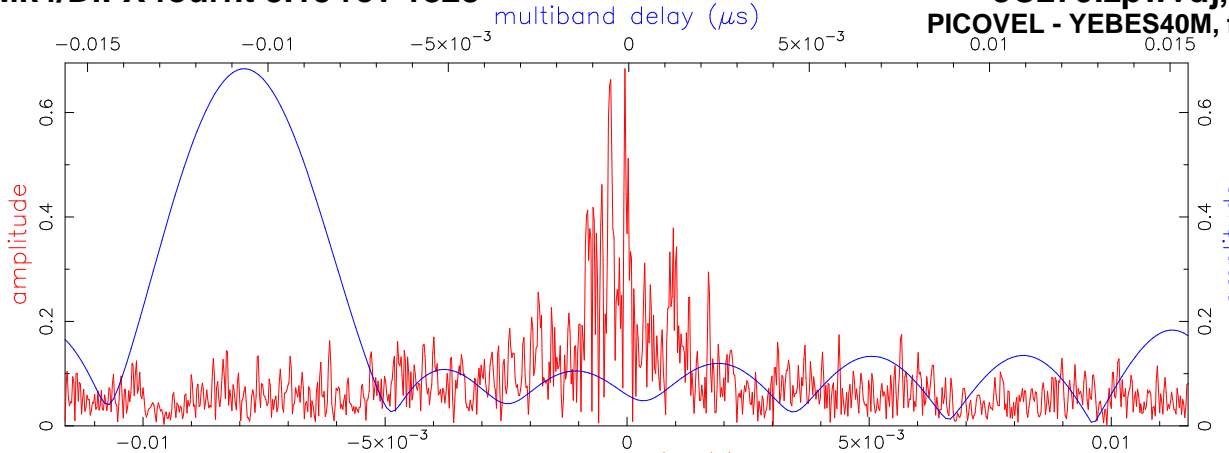


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

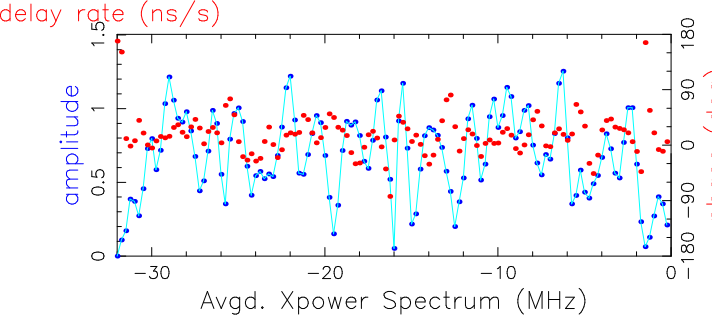
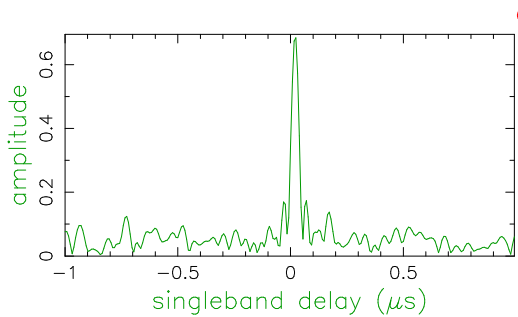


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-144.2	-135.7	-135.6	-134.7	-135.1	-142.1	-136.1	-141.2	Phase	-138.0
	5.7	5.7	5.9	5.9	6.0	5.6	5.6	5.7	Ampl.	5.8
	134.3	134.3	134.1	134.1	134.1	134.2	134.3	133.8	Sbd box	134.2
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.96357098773E+02		Apriori delay (usec)		4.96316741398E+02		Resid mbdelay (usec)		9.10738E-03	+/- 1.3E-05
Sband delay (usec)	4.96357089898E+02		Apriori clock (usec)		-3.3476164E+00		Resid sbdelay (usec)		4.03485E-02	+/- 1.0E-04
Phase delay (usec)	4.96316736946E+02		Apriori clockrate (us/s)		5.9999992E-08		Resid phdelay (usec)		-4.45172E-06	+/- 2.2E-08
Delay rate (us/s)	-5.12939713977E-02		Apriori rate (us/s)		-5.12936335393E-02		Resid rate (us/s)		-3.37858E-07	+/- 1.7E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.11404459178E-06		Resid phase (deg)		-318.0	+/- 0.7

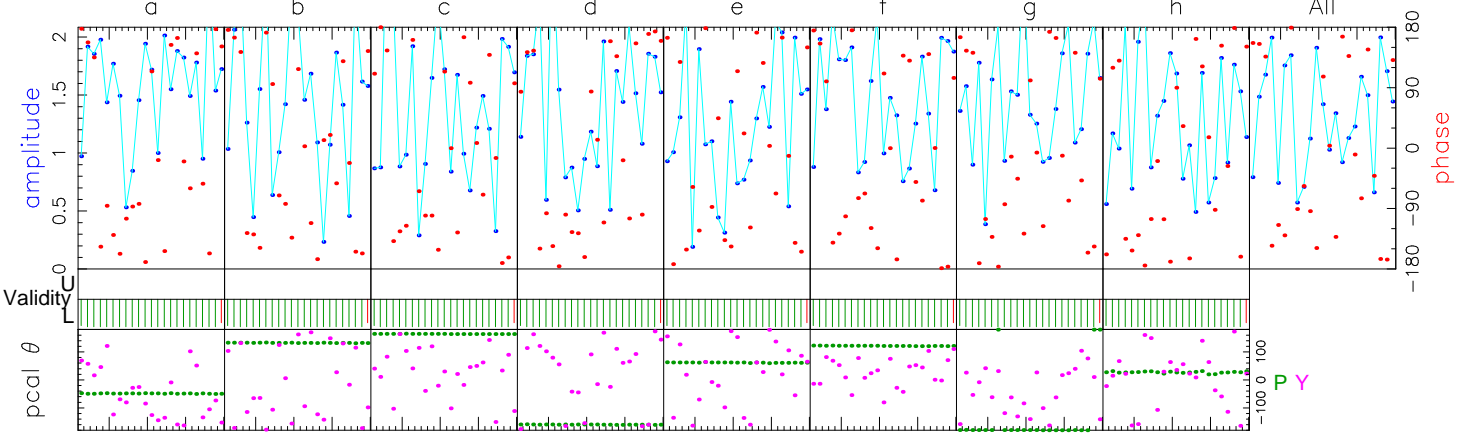
RMS Theor. Amplitude 5.753 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 77.6 1.6 Search (1024X32) 5.610 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 115.7 2.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 4.1 1.0 Inc. seg. avg. 10.862 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 (%) 2.3 1.7 Inc. frq. avg. 5.751 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 9  
 SNR 20.3  
 Int time 227.772  
 Amp 0.695  
 Phase -343.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.020180  
 MBD -0.010693  
 Fringe rate (Hz)  
 -0.003991  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024737  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



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
	-162.4	-165.2	-169.3	-168.9	-161.0	-160.9	-146.4	-173.4	Phase	-163.9
	0.8	0.7	0.7	0.8	0.6	0.7	0.6	0.7	Ampl.	0.7
	131.6	131.6	131.4	132.0	131.3	131.9	131.6	130.9	Sbd box	131.6
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.96337297927E+02		Apriori delay (usec)		4.96316741398E+02		Resid mbdelay (usec)		-1.06935E-02	+/- 1.1E-04
Sband delay (usec)	4.96336920898E+02		Apriori clock (usec)		-3.3476164E+00		Resid sbdelay (usec)		2.01795E-02	+/- 8.5E-04
Phase delay (usec)	4.96316736112E+02		Apriori clockrate (us/s)		5.9999992E-08		Resid phdelay (usec)		-5.28570E-06	+/- 1.8E-07
Delay rate (us/s)	-5.12936798680E-02		Apriori rate (us/s)		-5.12936335393E-02		Resid rate (us/s)		-4.63287E-08	+/- 1.4E-09
Total phase (deg)	-306.5		Apriori accel (us/s/s)		-2.114044459178E-06		Resid phase (deg)		-343.9	+/- 5.6

ph/seg (deg) 74.7 13.5 Theor. Amplitude 0.695 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 111.7 23.6 Search (1024X32) 0.683 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 8.9 8.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 12.2 13.9 Inc. seg. avg. 1.296 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. 0.683 Resid rate (us/s) -4.63287E-08 ion window (TEC) 0.00 0.00