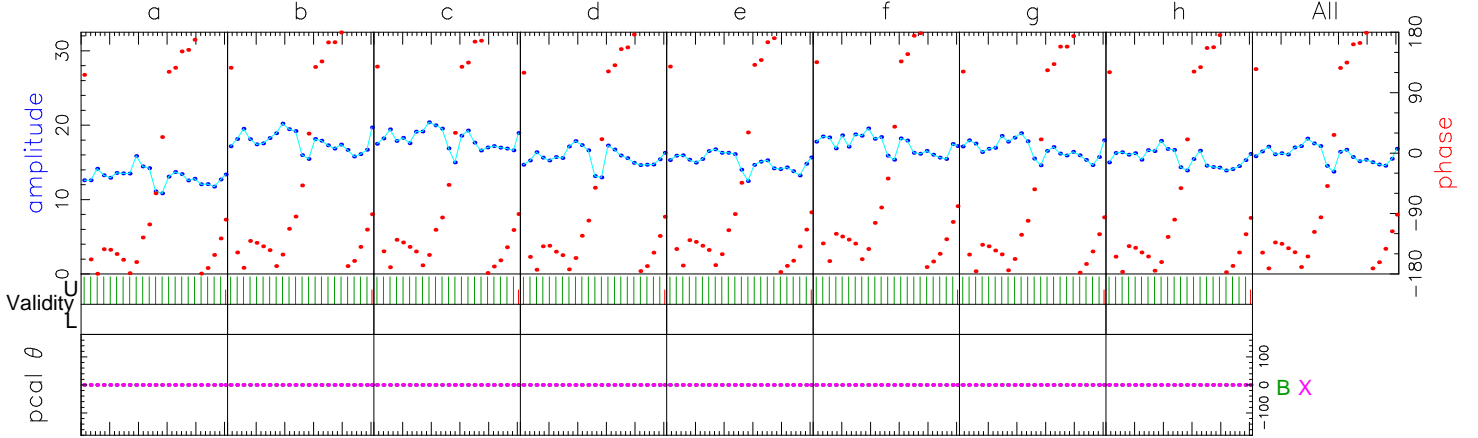


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-167.1	-155.2	-155.1	-162.8	-153.5	-145.2	-161.1	-162.7	Phase	-157.5
	8.9	11.9	12.2	10.5	10.2	11.5	11.3	10.4	Ampl.	10.9
	511.4	510.7	510.8	510.6	511.0	510.7	510.6	510.9	Sbd box	510.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.61694410752E+03		Apriori delay (usec)	1.61696124981E+03		Resid mbdelay (usec)	1.41077E-02	+/-	6.0E-06
Sband delay (usec)		1.61694410331E+03		Apriori clock (usec)	-5.1678429E+00		Resid sbdelay (usec)	-1.71465E-02	+/-	4.7E-05
Phase delay (usec)		1.61696124473E+03		Apriori clockrate (us/s)	-8.2399999E-07		Resid phdelay (usec)	-5.07824E-06	+/-	1.0E-08
Delay rate (us/s)		-6.77727996126E-02		Apriori rate (us/s)	-6.77727903766E-02		Resid rate (us/s)	-9.23605E-09	+/-	5.9E-11
Total phase (deg)		-136.5		Apriori accel (us/s/s)	-1.08557532878E-05		Resid phase (deg)	-157.5	+/-	0.3

ph/seg (deg) 57.4 0.8 Theor. Amplitude 10.836 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

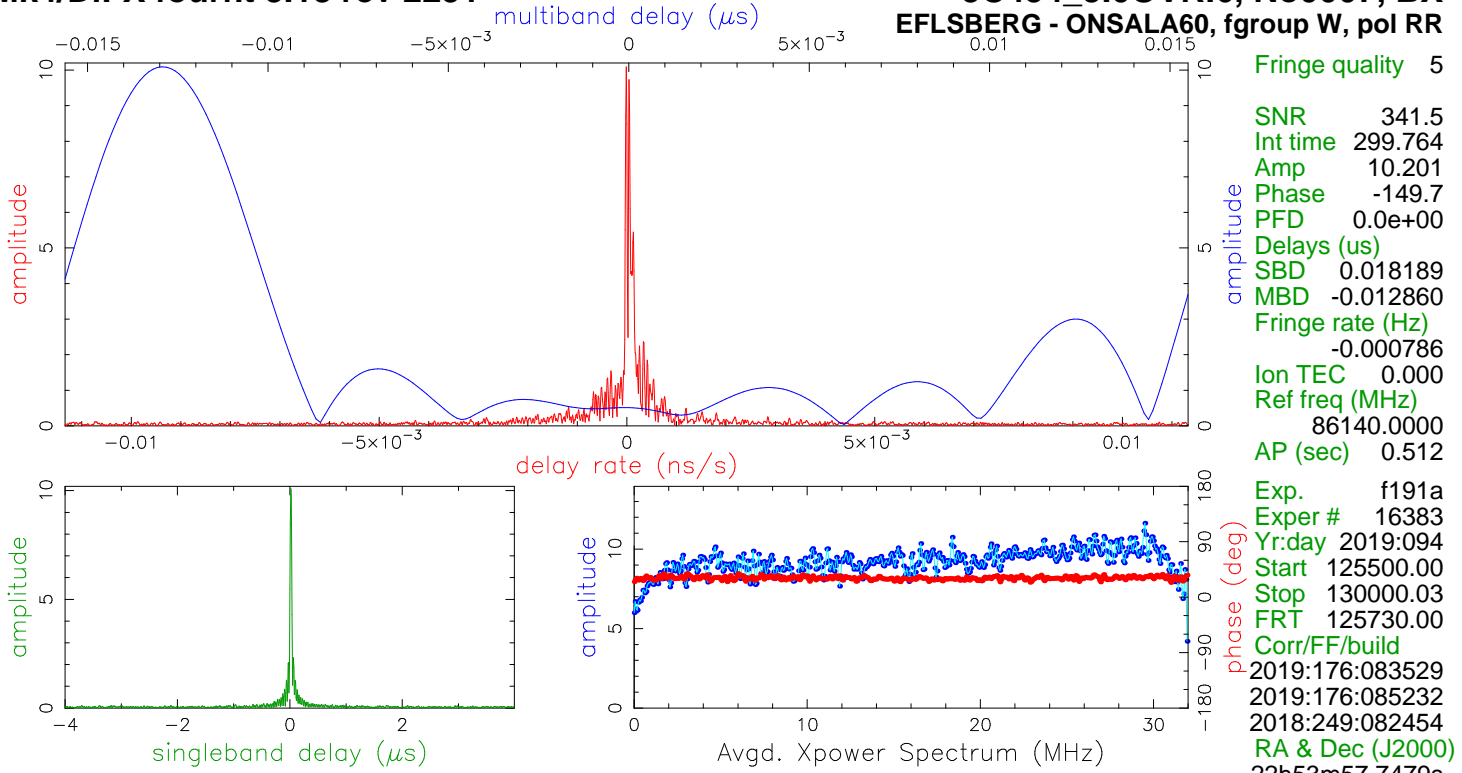
amp/seg (%) 49.1 1.3 Search (2048X32) 10.511 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

ph/frq (deg) 7.5 0.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

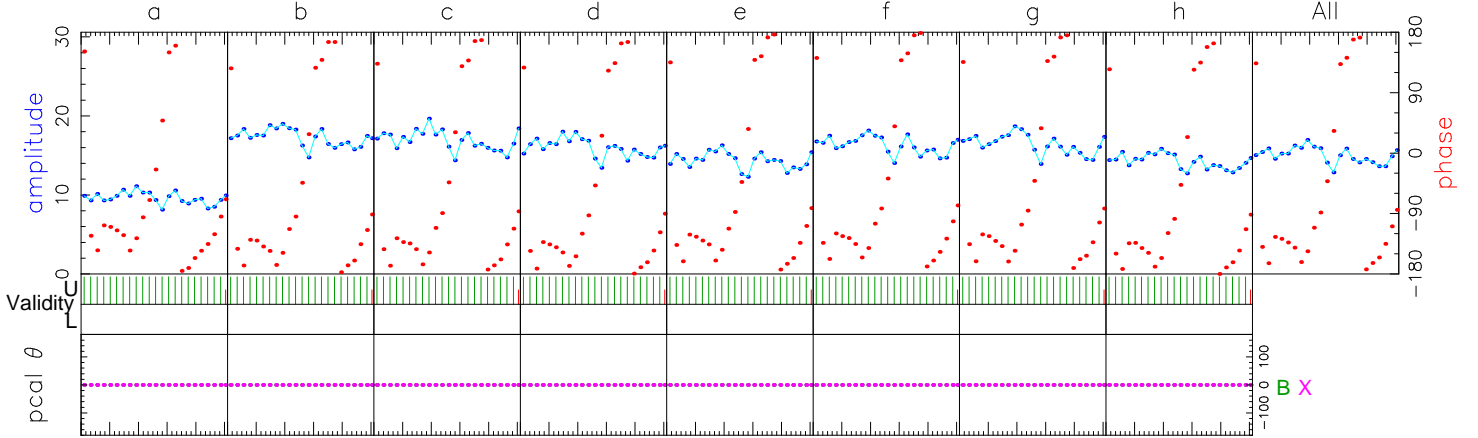
amp/frq (%) 9.2 0.8 Inc. seg. avg. 16.036 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011

B: az 247.2 el 37.9 pa 37.5 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BX..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BX.W.11.0OVRI6



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
-132.5	-153.6	-152.2	-156.7	-148.3	-143.8	-146.5	-157.8	Phase	-149.7
6.5	11.6	11.3	10.8	9.8	11.0	11.0	9.5	Ampl.	10.2
514.5	515.3	515.3	515.2	515.4	515.5	515.2	515.3	Sbd box	515.3
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B 0	0	0	0	0	0	0	0	PC freqs	
X 0	0	0	0	0	0	0	0	PC freqs	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
B W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.61697963940E+03	Apriori delay (usec)	1.61696124981E+03	Resid mbdelay (usec)	-1.28604E-02	+/-	6.4E-06		
Sband delay (usec)	1.61697943881E+03	Apriori clock (usec)	-5.1678429E+00	Resid sbdelay (usec)	1.81890E-02	+/-	5.0E-05		
Phase delay (usec)	1.61696124498E+03	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	-4.82858E-06	+/-	1.1E-08		
Delay rate (us/s)	-6.77727995049E-02	Apriori rate (us/s)	-6.77727903766E-02	Resid rate (us/s)	-9.12835E-09	+/-	6.2E-11		
Total phase (deg)		Apriori accel (us/s/s)	-1.08557532878E-05	Resid phase (deg)	-149.7	+/-	0.3		

ph/seg (deg) 57.7 0.8
 amp/seg (%) 48.2 1.4
 ph/frq (deg) 9.0 0.5
 amp/frq (%) 15.2 0.8

RMS Theor. Amplitude 10.201 +/- 0.030
 Search (2048X32) 9.997
 Inc. seg. avg. 15.019
 Inc. frq. avg. 10.164

Group delay (usec)(sbd) 1.61697963940E+03
 Sband delay (usec) 1.61697943881E+03
 Phase delay (usec) 1.61696124498E+03
 Delay rate (us/s) -6.77727995049E-02
 Total phase (deg) -128.8

Apriori delay (usec) 1.61696124981E+03
 Apriori clock (usec) -5.1678429E+00
 Apriori clockrate (us/s) -8.2399999E-07
 Apriori rate (us/s) -6.77727903766E-02
 Apriori accel (us/s/s) -1.08557532878E-05

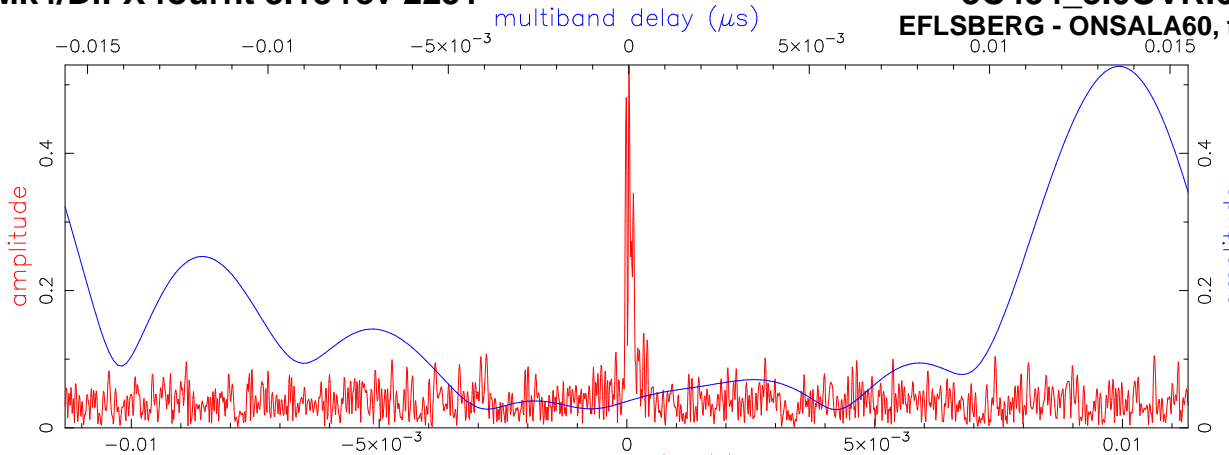
Resid mbdelay (usec) -1.28604E-02 +/- 6.4E-06
 Resid sbdelay (usec) 1.81890E-02 +/- 5.0E-05
 Resid phdelay (usec) -4.82858E-06 +/- 1.1E-08
 Resid rate (us/s) -9.12835E-09 +/- 6.2E-11
 Resid phase (deg) -149.7 +/- 0.3

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite

sb window (us) -4.000 4.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

B: az 247.2 el 37.9 pa 37.5 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator

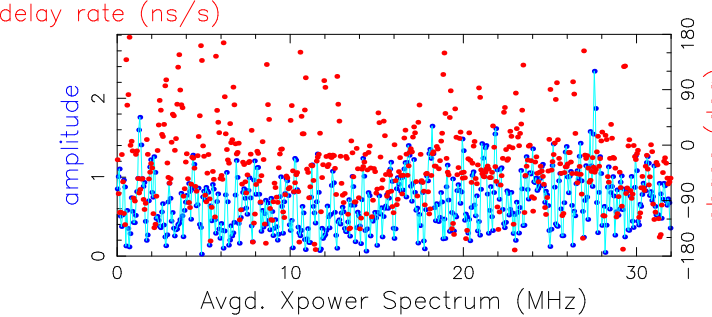
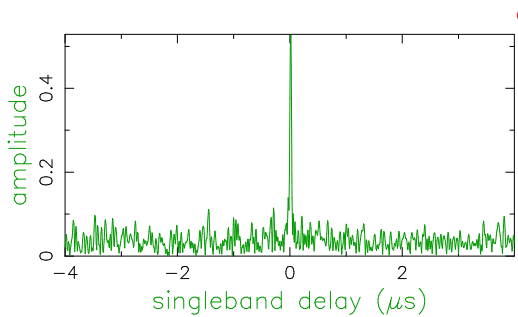
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BX..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BX.W.29.0OVRI6



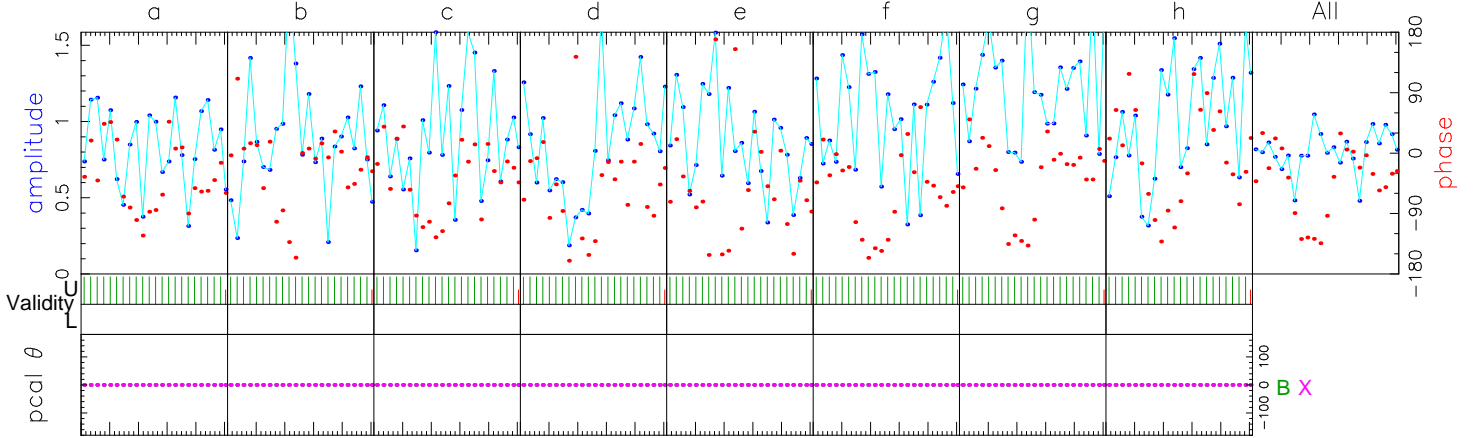
Fringe quality 8

SNR 17.7
 Int time 299.764
 Amp 0.529
 Phase -38.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.014096
 MBD 0.013573
 Fringe rate (Hz)
 0.004026
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085240
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

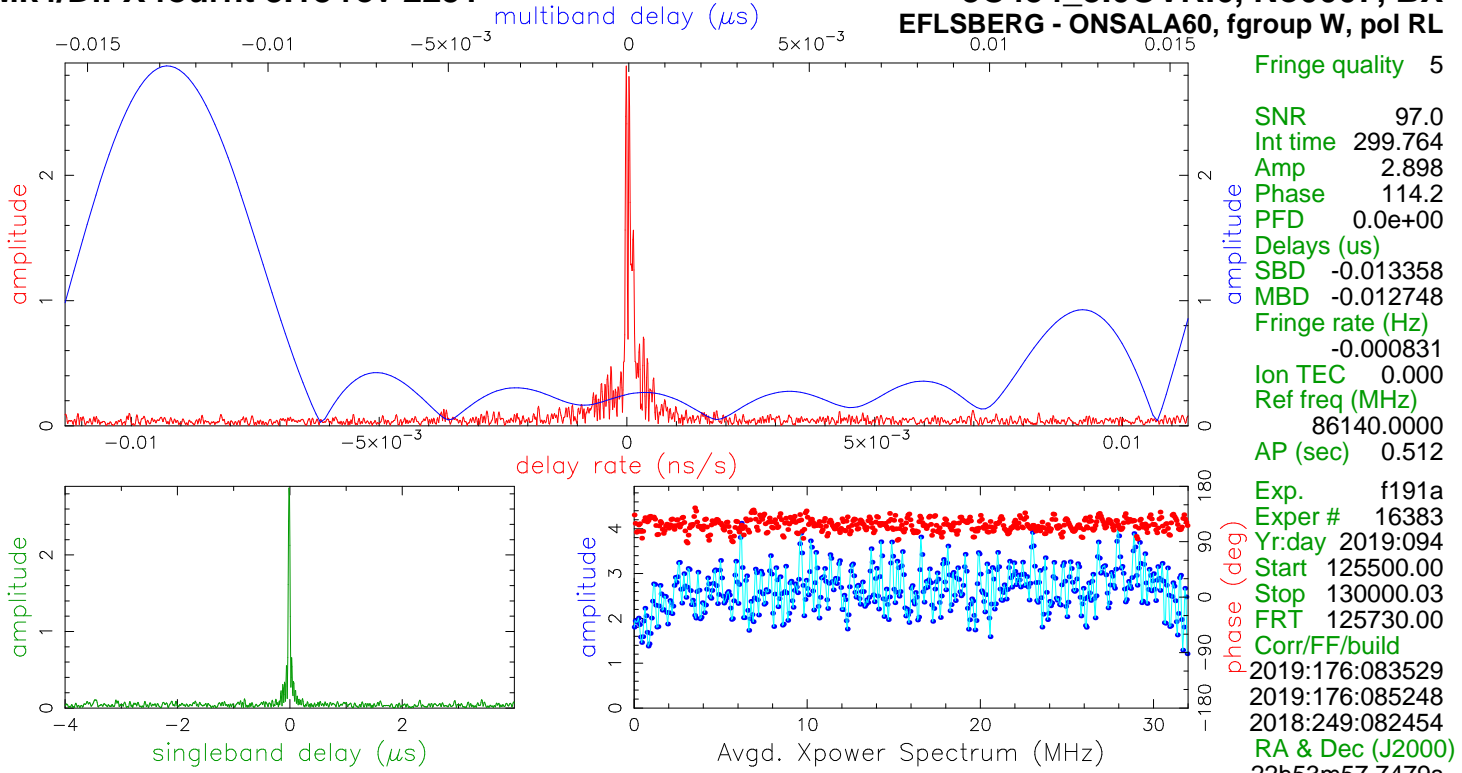


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

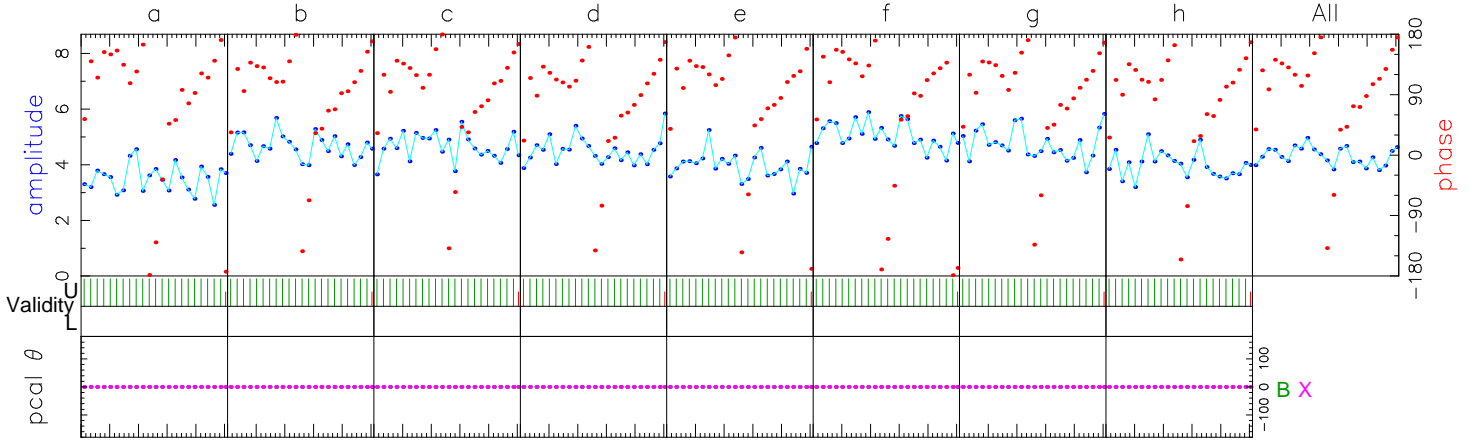


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-35.0	-25.0	-32.8	-43.5	-79.2	-63.4	-30.1	2.7	Phase	-38.9
	0.6	0.5	0.6	0.6	0.4	0.7	0.8	0.4	Ampl.	0.6
	514.5	514.7	514.4	514.9	515.5	515.1	515.0	514.8	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.61697482312E+03		Apriori delay (usec)	1.61696124981E+03		Resid mbdelay (usec)	1.35733E-02	+/-	1.2E-04
Sband delay (usec)		1.61697534581E+03		Apriori clock (usec)	-5.1678429E+00		Resid sbdelay (usec)	1.40960E-02	+/-	9.7E-04
Phase delay (usec)		1.61696124855E+03		Apriori clockrate (us/s)	-8.2399999E-07		Resid phdelay (usec)	-1.25417E-06	+/-	2.1E-07
Delay rate (us/s)		-6.77727436437E-02		Apriori rate (us/s)	-6.77727903766E-02		Resid rate (us/s)	4.67329E-08	+/-	1.2E-09
Total phase (deg)			-17.9	Apriori accel (us/s/s)	-1.08557532878E-05		Resid phase (deg)	-38.9	+/-	6.5

ph/seg (deg) 51.3 15.5 Theor. Amplitude 0.529 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.5 27.1 Search (2048X32) 0.521 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 26.8 9.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 26.3 16.0 Inc. seg. avg. 0.780 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 247.2 el 37.9 pa 37.5 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BX...OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BX.W.51.0OVRI6



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

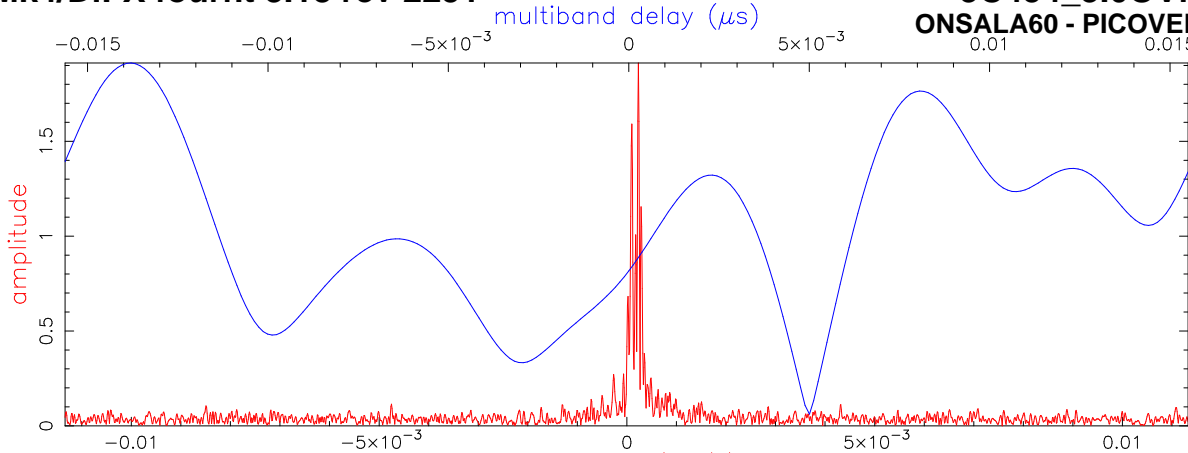


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
125.4	109.7	112.6	105.0	114.4	129.8	112.9	104.2	Phase	114.2
2.3	3.1	3.1	2.9	2.7	3.3	3.2	2.6	Ampl.	2.9
511.8	511.2	511.4	511.0	511.5	511.3	511.0	511.3	Sbd box	511.3
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B 0	0	0	0	0	0	0	0	PC freqs	
X 0	0	0	0	0	0	0	0	PC freqs	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
B W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.61694850159E+03		Apriori delay (usec)	1.61696124981E+03		Resid mbdelay (usec)	-1.27482E-02	+/-	2.2E-05
Sband delay (usec)	1.61694789131E+03		Apriori clock (usec)	-5.1678429E+00		Resid sbdelay (usec)	-1.33585E-02	+/-	1.8E-04
Phase delay (usec)	1.61696125349E+03		Apriori clockrate (us/s)	-8.2399999E-07		Resid phdelay (usec)	3.68421E-06	+/-	3.8E-08
Delay rate (us/s)	-6.77728000229E-02		Apriori rate (us/s)	-6.77727903766E-02		Resid rate (us/s)	-9.64630E-09	+/-	2.2E-10
Total phase (deg)		135.2	Apriori accel (us/s/s)	-1.08557532878E-05		Resid phase (deg)	114.2	+/-	1.2

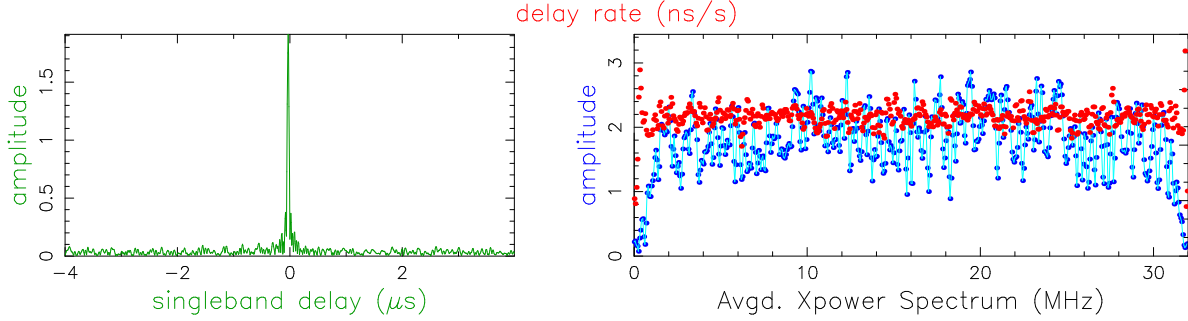
RMS Theor. Amplitude 2.898 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.3 2.8 Search (2048X32) 2.863 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 50.1 4.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 9.8 1.7 Inc. seg. avg. 4.311 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 11.1 2.9 Inc. frq. avg. 2.904 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 247.2 el 37.9 pa 37.5 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator

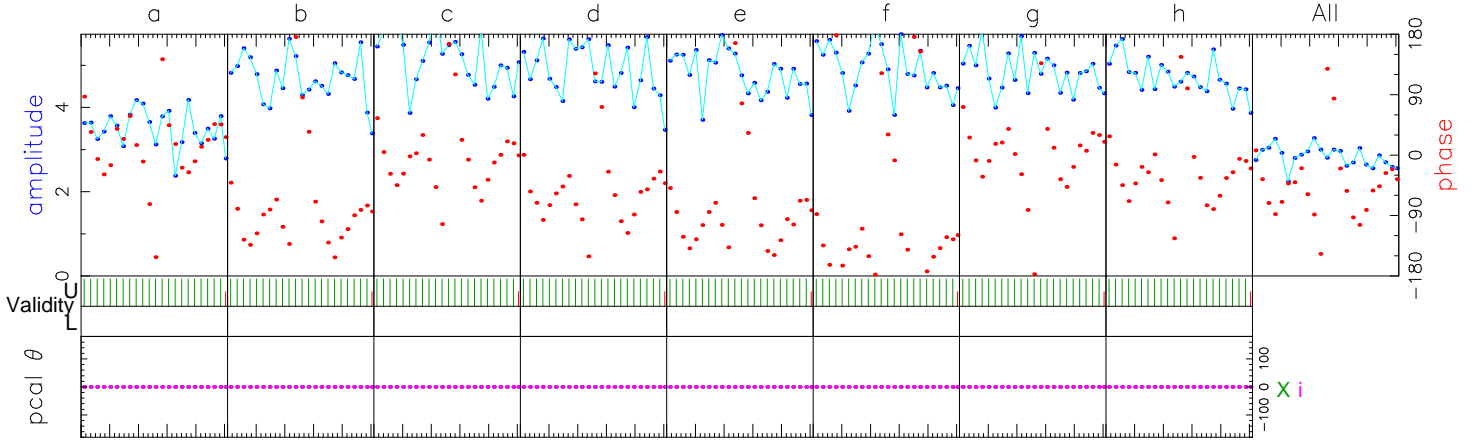
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BX..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BX.W.71.0OVRI6



Fringe quality 1
 SNR 64.0
 Int time 299.796
 Amp 1.913
 Phase -54.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.031401
 MBD -0.013820
 Fringe rate (Hz) 0.020254
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085226
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



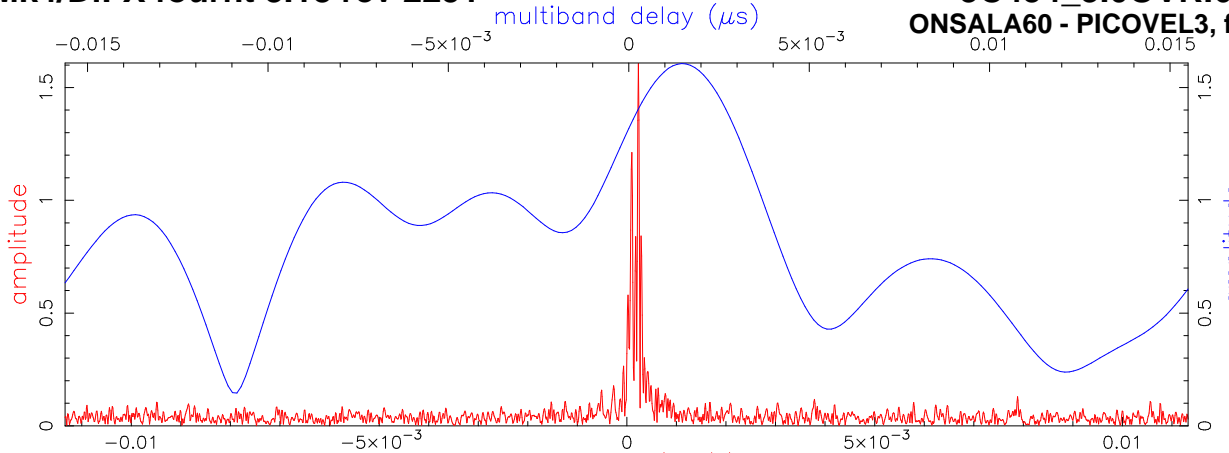
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



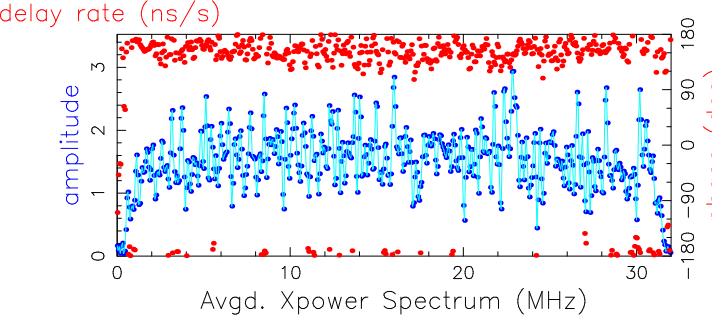
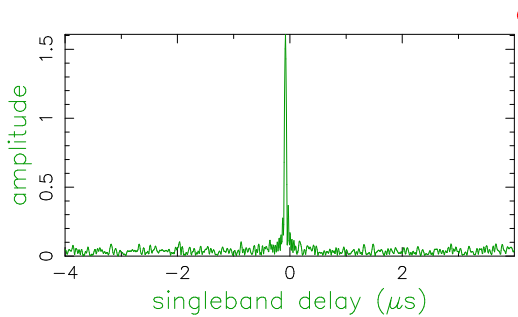
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	16.1	-102.8	-10.6	-62.4	-103.7	-149.5	7.0	-33.3	Phase	-54.9
	2.4	3.3	3.4	3.4	3.3	3.4	3.3	3.3	Ampl.	3.2
	507.0	508.3	508.6	508.8	508.5	508.8	509.1	508.7	Sbd box	509.0
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
i	0	0	0	0	0	0	0	0	PC freqs	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78474906832E+03		Apriori delay (usec)		-4.78470399789E+03		Resid mbdelay (usec)		-1.38204E-02	+/- 3.4E-05
Sband delay (usec)	-4.78473539889E+03		Apriori clock (usec)		2.5630024E+01		Resid sbdelay (usec)		-3.14010E-02	+/- 2.7E-04
Phase delay (usec)	-4.78470399966E+03		Apriori clockrate (us/s)		8.7699997E-07		Resid phdelay (usec)		-1.76904E-06	+/- 5.8E-08
Delay rate (us/s)	1.02212215701E-01		Apriori rate (us/s)		1.02211980568E-01		Resid rate (us/s)		2.35133E-07	+/- 3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		-54.9	+/- 1.8

RMS Theor. Amplitude 1.913 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.9 4.3 Search (2048X32) 1.885 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 49.9 7.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 64.5 2.5 Inc. seg. avg. 2.831 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 70.6 4.4 Inc. frq. avg. 3.223 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Xi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Xi.W.19.0OVRI6

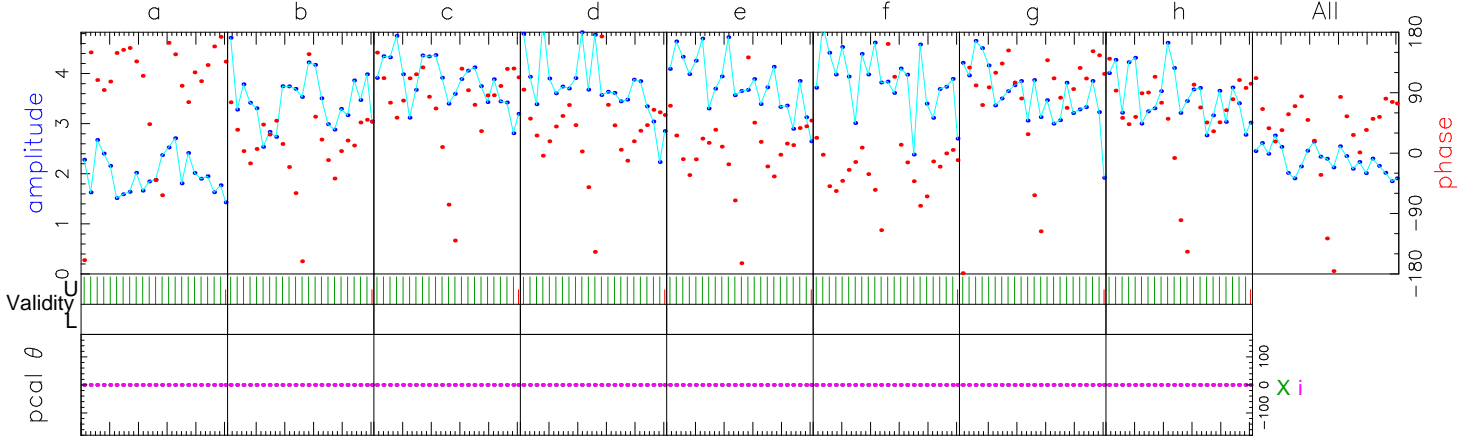


Fringe quality 1
SNR 53.9
Int time 299.796
Amp 1.609
Phase 51.5
PFD 0.0e+00
Delays (us)
SBD -0.079154
MBD 0.001470
Fringe rate (Hz)
0.020264
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085233
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

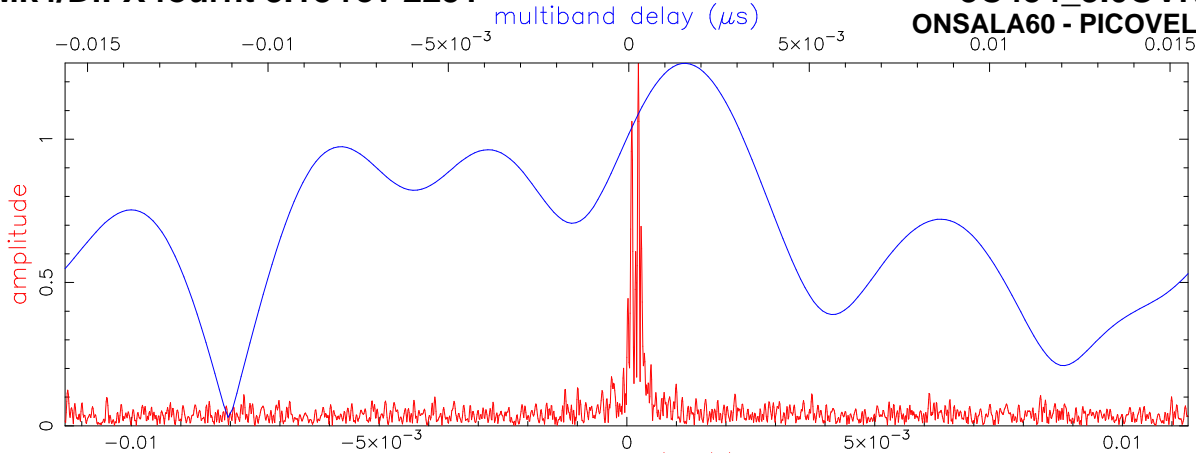


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	129.6	21.4	93.3	36.3	10.4	-25.6	114.3	73.9	Phase	51.5
	1.3	2.4	2.7	2.5	2.7	2.5	2.5	2.5	Ampl.	2.4
	501.9	501.9	502.5	502.6	502.8	502.5	502.8	502.7	Sbd box	502.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
i	0	0	0	0	0	0	0	0	PC freqs	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -4.78479627795E+03 Apriori delay (usec) -4.78470399789E+03 Resid mbdelay (usec) 1.46994E-03 +/- 4.0E-05
 Sband delay (usec) -4.78478315139E+03 Apriori clock (usec) 2.5630024E+01 Resid sbdelay (usec) -7.91535E-02 +/- 3.2E-04
 Phase delay (usec) -4.78470399623E+03 Apriori clockrate (us/s) 8.7699997E-07 Resid phdelay (usec) 1.65990E-06 +/- 6.9E-08
 Delay rate (us/s) 1.02212215808E-01 Apriori rate (us/s) 1.02211980568E-01 Resid rate (us/s) 2.35240E-07 +/- 4.0E-10
 Total phase (deg) -84.6 Apriori accel (us/s/s) 3.31456296864E-05 Resid phase (deg) 51.5 +/- 2.1

RMS Theor. Amplitude 1.609 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 56.1 5.1 Search (2048X32) 1.556 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 44.4 8.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 59.2 3.0 Inc. seg. avg. 2.269 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.6 5.3 Inc. frq. avg. 2.406 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

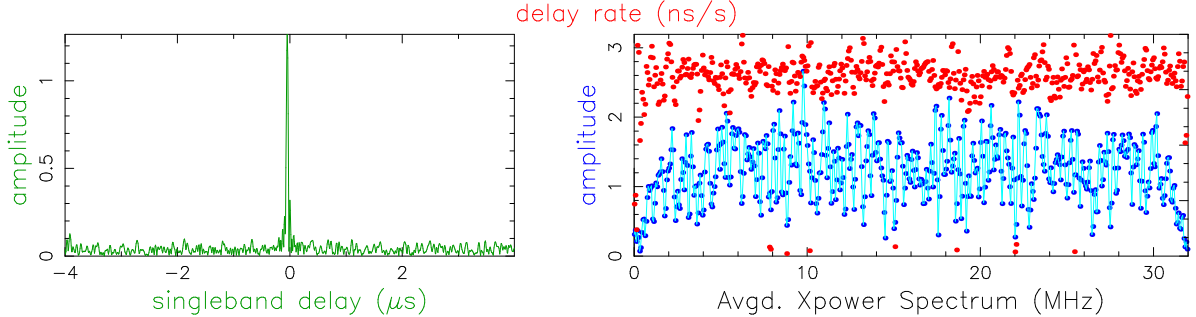
X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Xi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Xi.W.39.0OVRI6



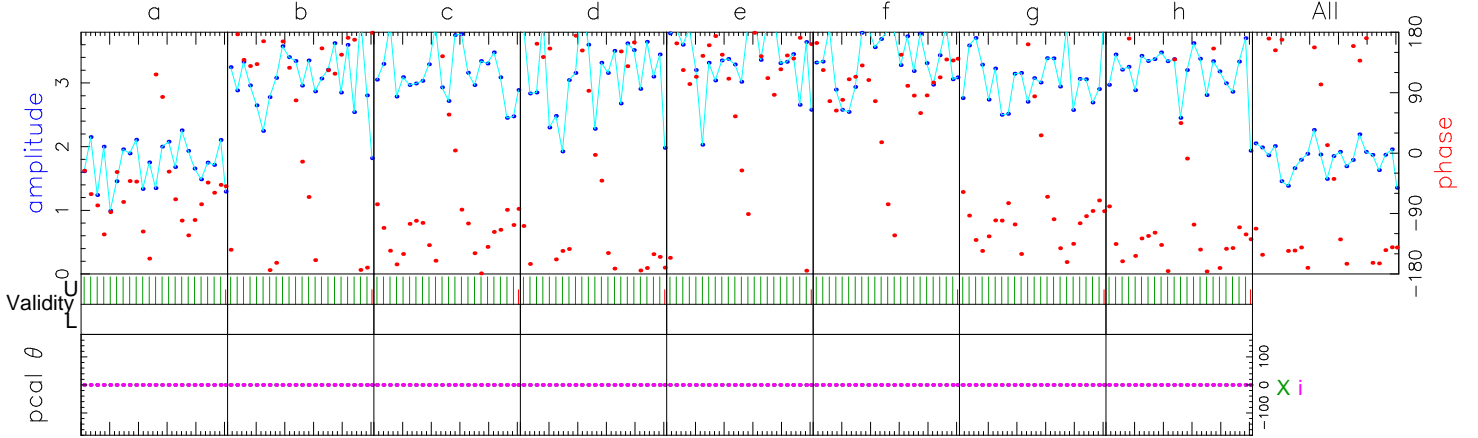
Fringe quality 3

SNR 42.4
 Int time 299.796
 Amp 1.266
 Phase -167.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.047615
 MBD 0.001546
 Fringe rate (Hz) 0.020103
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085241
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

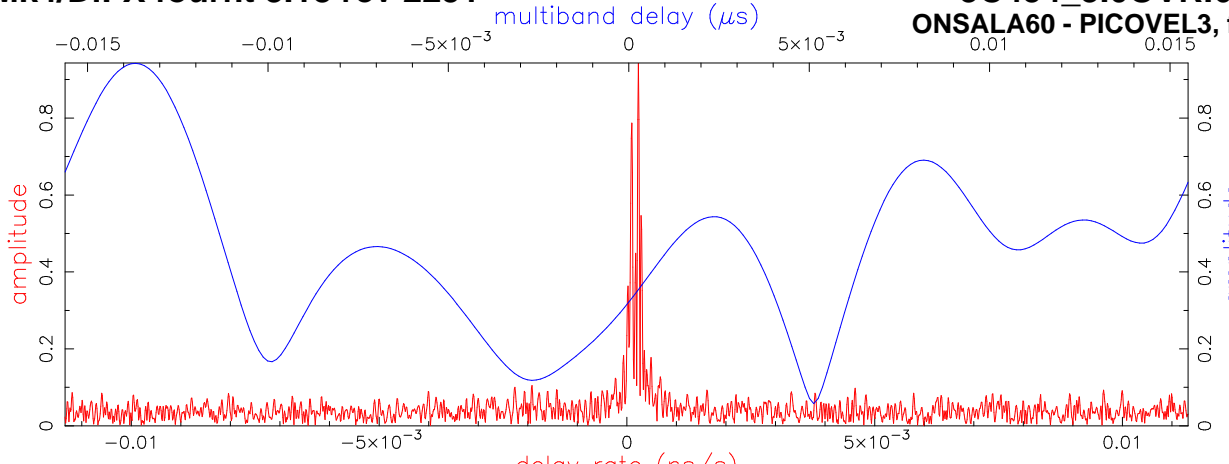


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-69.7	161.6	-122.5	-178.2	142.7	106.6	-108.9	-143.4	Phase	-167.9
	1.2	2.1	2.2	2.1	2.3	2.3	2.1	2.3	Ampl.	2.1
	504.5	506.0	506.3	506.7	506.6	506.9	506.9	506.6	Sbd box	506.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
i	0	0	0	0	0	0	0	0	PC freqs	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78476495176E+03		Apriori delay (usec)		-4.78470399789E+03		Resid mbdelay (usec)		1.54613E-03	+/- 5.1E-05
Sband delay (usec)	-4.78475161339E+03		Apriori clock (usec)		2.5630024E+01		Resid sbdelay (usec)		-4.76155E-02	+/- 4.1E-04
Phase delay (usec)	-4.78470400330E+03		Apriori clockrate (us/s)		8.7699997E-07		Resid phdelay (usec)		-5.41436E-06	+/- 8.7E-08
Delay rate (us/s)	1.02212213948E-01		Apriori rate (us/s)		1.02211980568E-01		Resid rate (us/s)		2.33380E-07	+/- 5.0E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		-167.9	+/- 2.7

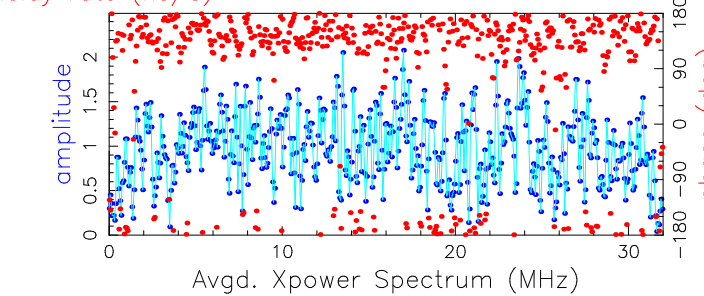
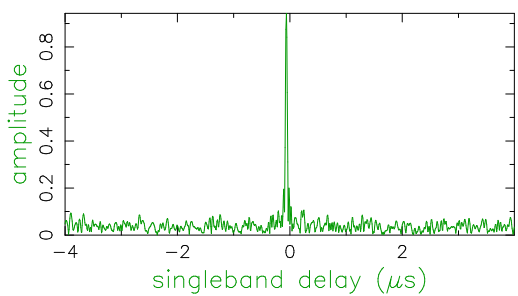
RMS Theor. Amplitude 1.266 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.3 6.5 Search (2048X32) 1.240 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 47.7 11.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 66.5 3.8 Inc. seg. avg. 1.815 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 69.0 6.7 Inc. frq. avg. 2.063 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Xi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Xi.W.58.0OVRI6

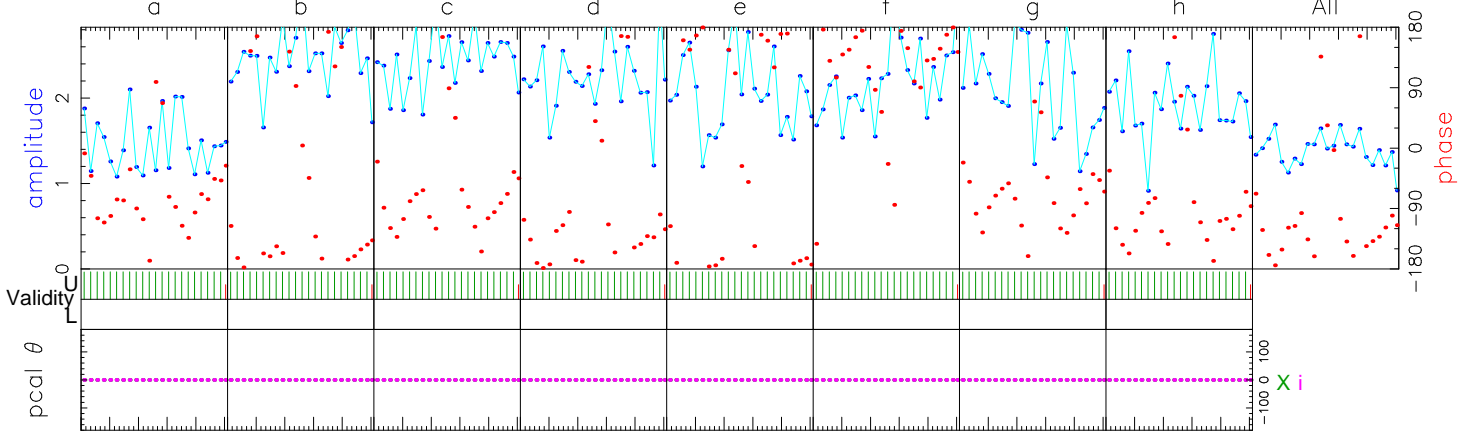


Fringe quality 3
 SNR 31.6
 Int time 299.796
 Amp 0.943
 Phase -135.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.063289
 MBD -0.013694
 Fringe rate (Hz)
 0.020117
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



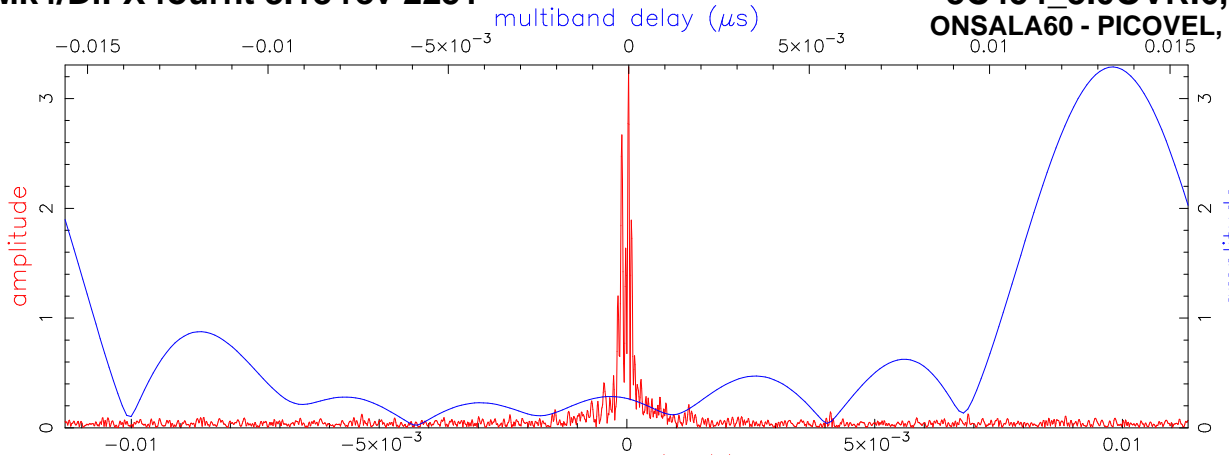
Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085249
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-77.7	-171.5	-90.1	-144.3	175.5	143.1	-78.9	-114.6	Phase	-135.5
	0.9	1.6	1.6	1.5	1.4	1.4	1.5	1.3	Ampl.	1.4
	503.8	504.1	504.7	504.8	504.9	504.5	504.9	504.7	Sbd box	504.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
i	0	0	0	0	0	0	0	0	PC freqs	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78478019232E+03		Apriori delay (usec)		-4.78470399789E+03		Resid mbdelay (usec)		-1.36944E-02	+/- 6.9E-05
Sband delay (usec)	-4.78476728639E+03		Apriori clock (usec)		2.5630024E+01		Resid sbdelay (usec)		-6.32885E-02	+/- 5.5E-04
Phase delay (usec)	-4.78470400226E+03		Apriori clockrate (us/s)		8.7699997E-07		Resid phdelay (usec)		-4.36925E-06	+/- 1.2E-07
Delay rate (us/s)	1.02212214101E-01		Apriori rate (us/s)		1.02211980568E-01		Resid rate (us/s)		2.3534E-07	+/- 6.8E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		-135.5	+/- 3.6

RMS Theor. Amplitude 0.943 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 56.0 8.7 Search (2048X32) 0.939 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 51.5 15.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 56.9 5.1 Inc. seg. avg. 1.382 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 52.9 9.0 Inc. frq. avg. 1.393 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00
 X: az 247.6 el 32.5 pa 31.4 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Xi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Xi.W.79.0OVRI6



Fringe quality 5

SNR 110.1

Int time 296.646

Amp 3.306

Phase 124.4

PFD 0.0e+00

Delays (us)

SBD 0.013765

MBD 0.013371

Fringe rate (Hz) 0.003064

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125500.00

Stop 130000.03

FRT 125730.00

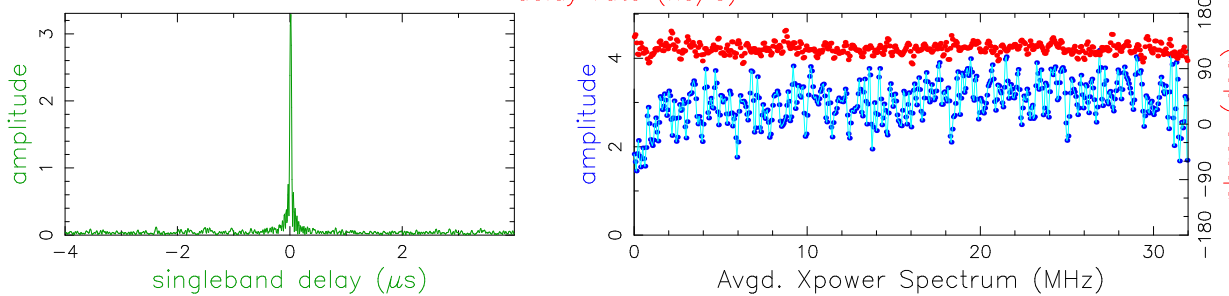
Corr/FF/build

2019:176:083529

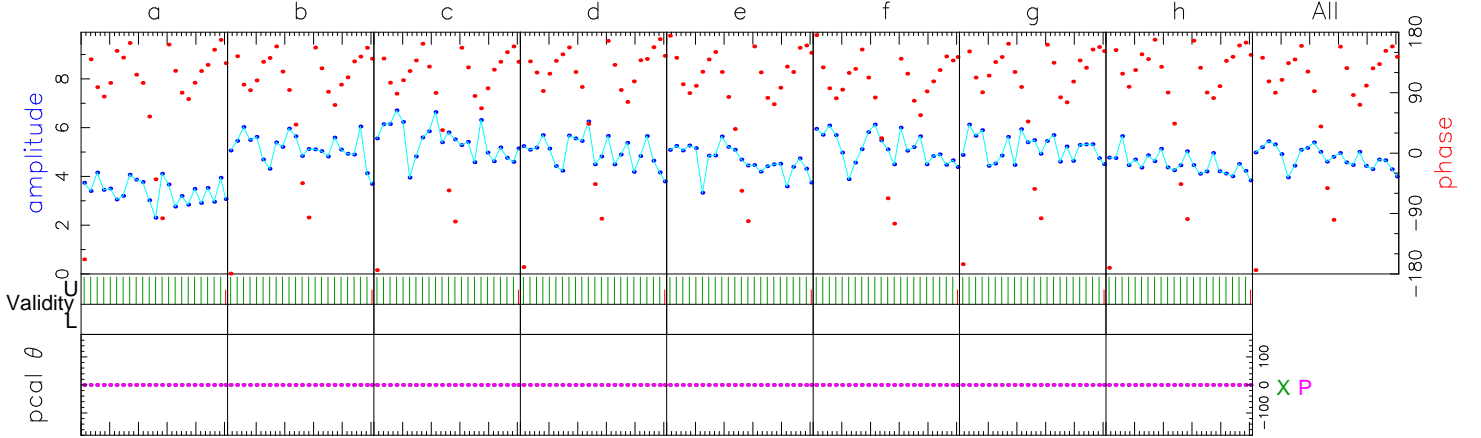
2019:176:085225

2018:249:082454

RA & Dec (J2000) 22h53m57.7479s +16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	128.3	122.1	122.5	129.2	120.8	112.3	129.2	133.2	Phase	124.4
	2.4	3.6	3.6	3.5	3.2	3.5	3.5	3.1	Ampl.	3.3
	514.1	514.9	514.7	515.0	514.6	514.7	515.0	514.5	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78517493735E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.33705E-02	+/- 2.0E-05
Sband delay (usec)	-4.78517454289E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		1.37650E-02	+/- 1.6E-04
Phase delay (usec)	-4.78518830388E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		4.01240E-06	+/- 3.4E-08
Delay rate (us/s)	1.02212216132E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.55646E-08	+/- 1.9E-10
Total phase (deg)	-178.5		Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		124.4	+/- 1.0

ph/seg (deg) 57.1 2.5 Theor. Amplitude 3.306 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

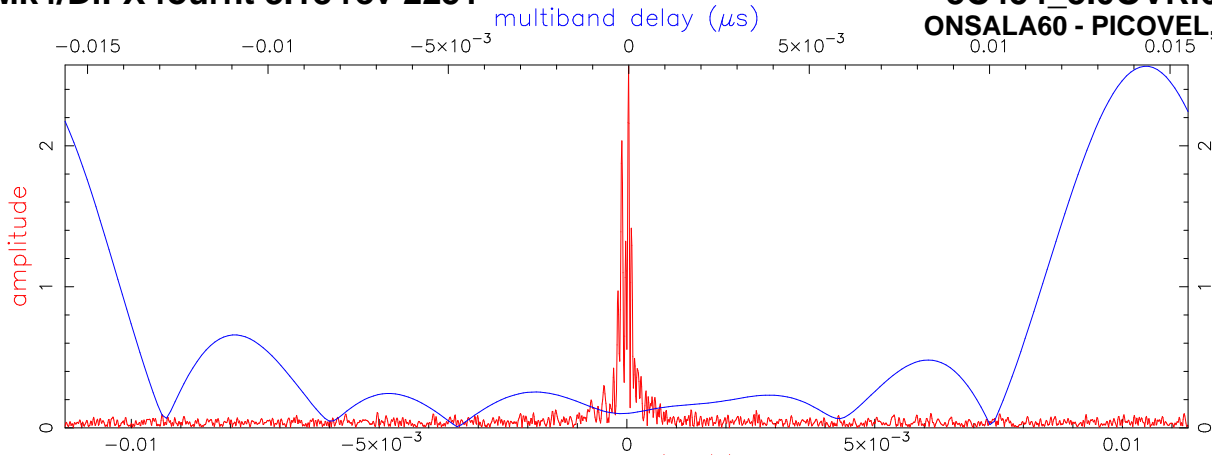
amp/seg (%) 46.5 4.4 Search (2048X32) 3.240 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

ph/frq (deg) 7.2 1.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 12.3 2.6 Inc. seg. avg. 4.785 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011

X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator

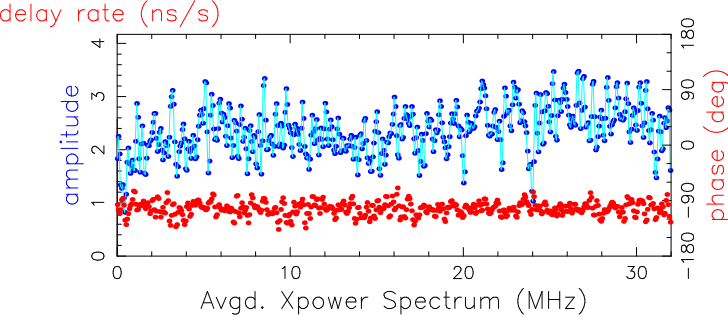
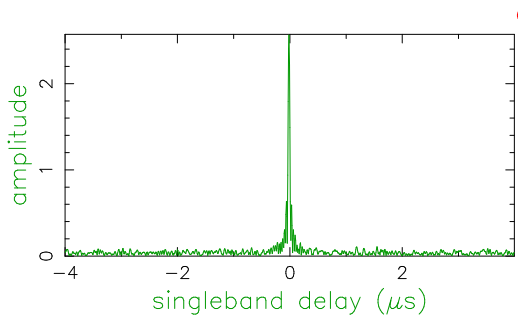
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XP..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XP.W.12.0OVR16



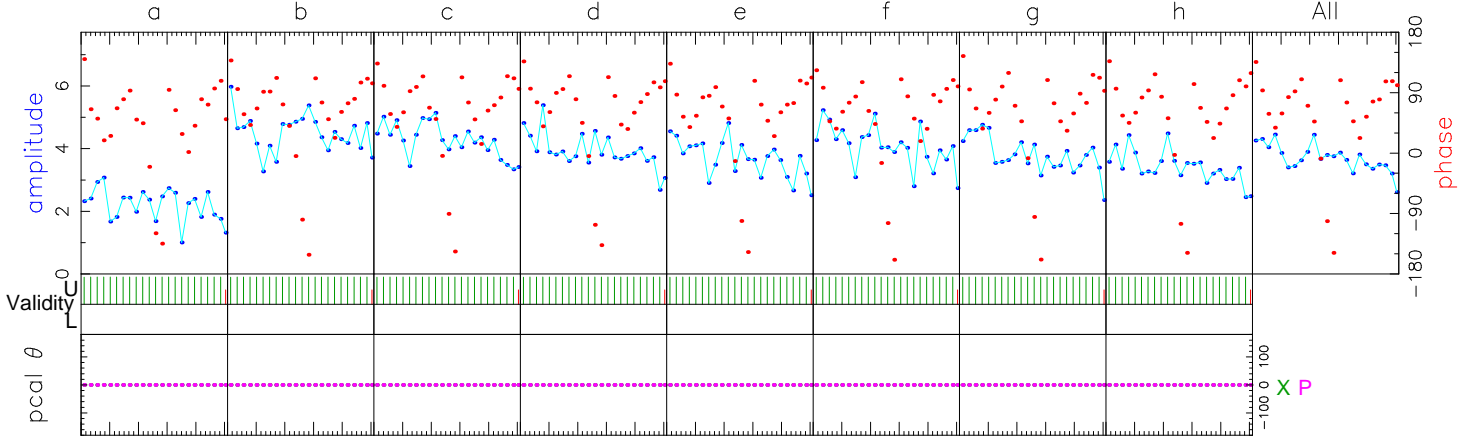
Fringe quality 5

SNR 85.7
 Int time 296.646
 Amp 2.573
 Phase 75.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.017083
 MBD 0.014293
 Fringe rate (Hz) 0.003067
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085233
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



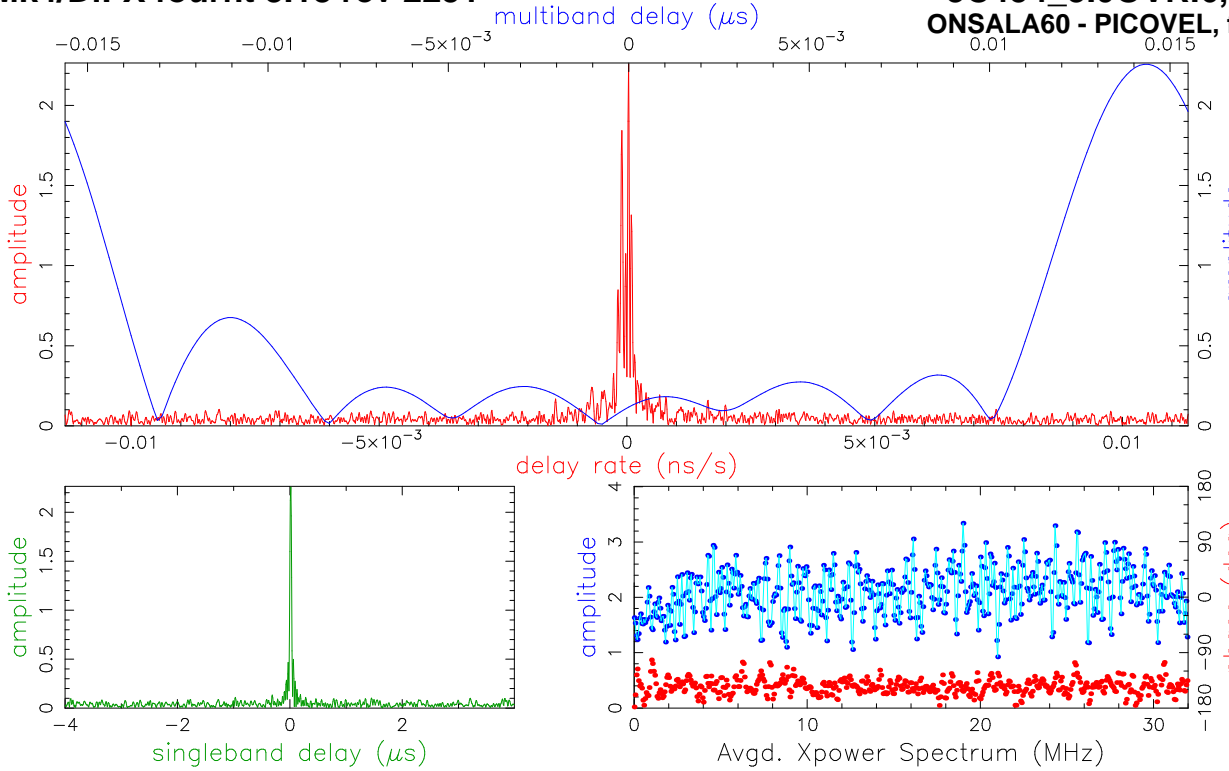
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	61.1	79.2	77.4	80.4	74.0	72.9	78.6	76.1	Phase	75.9
	1.5	3.0	2.9	2.7	2.6	2.8	2.7	2.4	Ampl.	2.6
	513.0	510.9	510.9	510.9	510.9	510.6	510.9	510.5	Sbd box	510.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78520526454E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.42933E-02	+/- 2.5E-05
Sband delay (usec)	-4.78520539089E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		-1.70830E-02	+/- 2.0E-04
Phase delay (usec)	-4.78518830544E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		2.44661E-06	+/- 4.3E-08
Delay rate (us/s)	1.02212216178E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.56100E-08	+/- 2.5E-10
Total phase (deg)	-227.0		Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		75.9	+/- 1.3

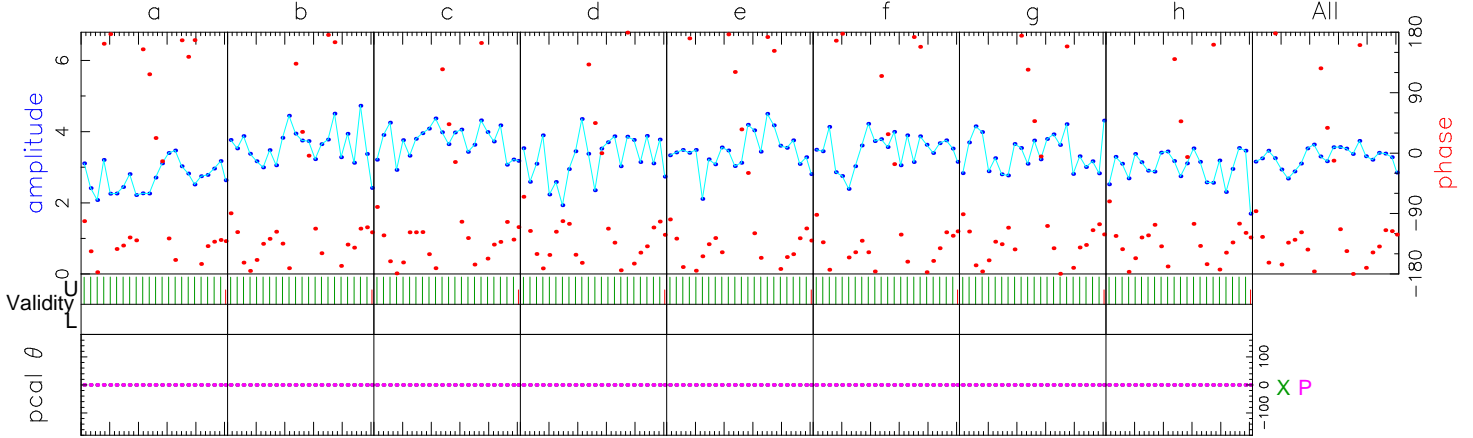
RMS Theor. Amplitude 2.573 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 56.8 3.2 Search (2048X32) 2.518 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 47.4 5.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 6.7 1.9 Inc. seg. avg. 3.719 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 17.7 3.3 Inc. frq. avg. 2.571 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XP..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//XP.W.34.00VRI6



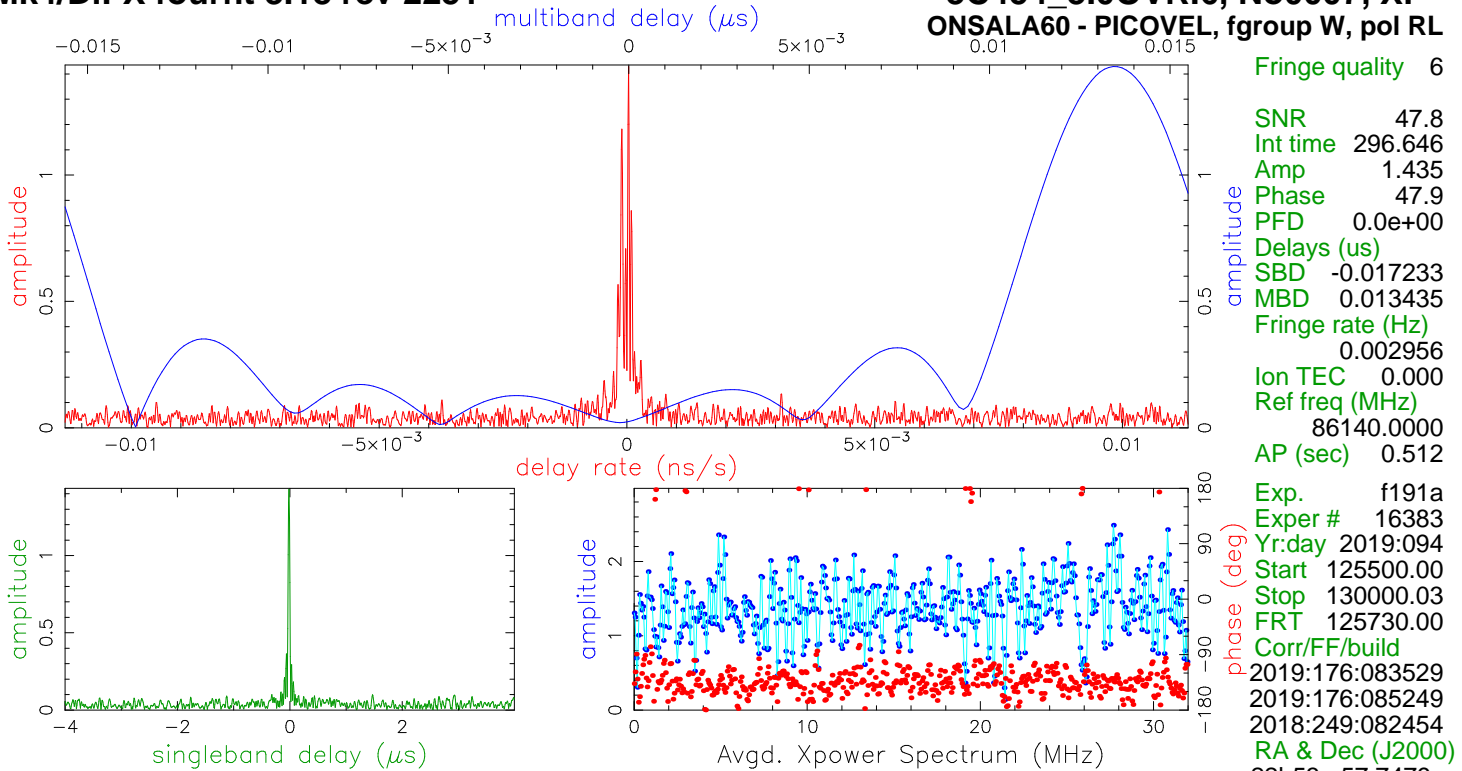
Fringe quality 5
 SNR 75.4
 Int time 296.646
 Amp 2.265
 Phase -145.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.014170
 MBD 0.014310
 Fringe rate (Hz) 0.002990
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085241
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

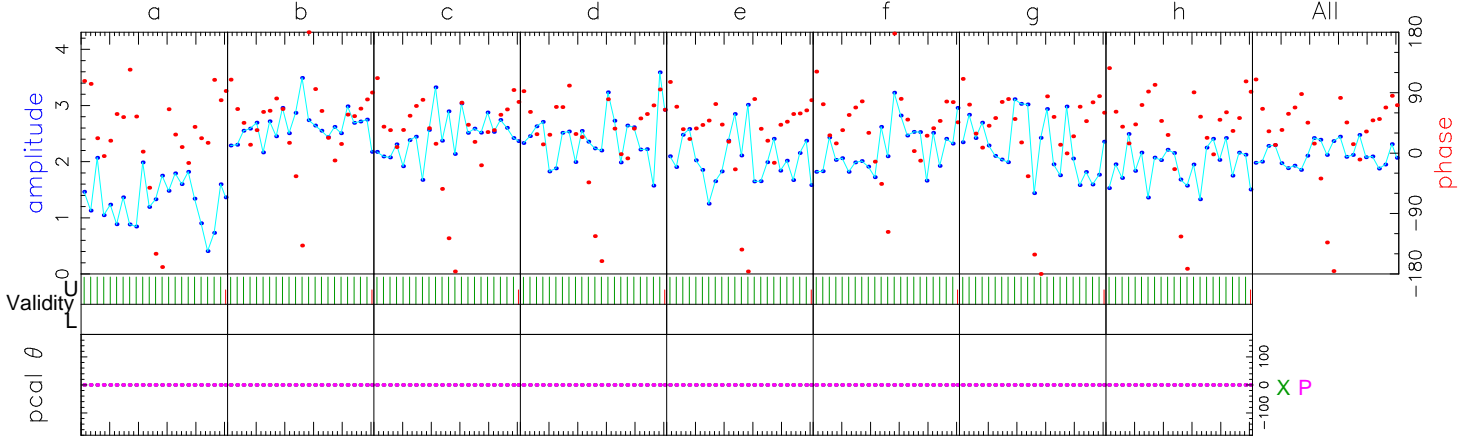


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-155.9	-143.3	-139.5	-137.8	-153.1	-154.0	-146.0	-138.2	Phase	-145.7
	1.8	2.5	2.6	2.2	2.4	2.3	2.3	2.1	Ampl.	2.3
	514.8	515.0	514.8	515.0	514.9	514.9	515.1	514.4	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78517399760E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.43103E-02	+/- 2.9E-05
Sband delay (usec)	-4.78517413789E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		1.41700E-02	+/- 2.3E-04
Phase delay (usec)	-4.78518831259E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		-4.69984E-06	+/- 4.9E-08
Delay rate (us/s)	1.02212215284E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.47158E-08	+/- 2.8E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		-145.7	+/- 1.5

RMS Theor. Amplitude 2.265 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.0 3.6 Search (2048X32) 2.227 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 46.9 6.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 8.1 2.1 Inc. seg. avg. 3.288 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.9 3.8 Inc. frq. avg. 2.271 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

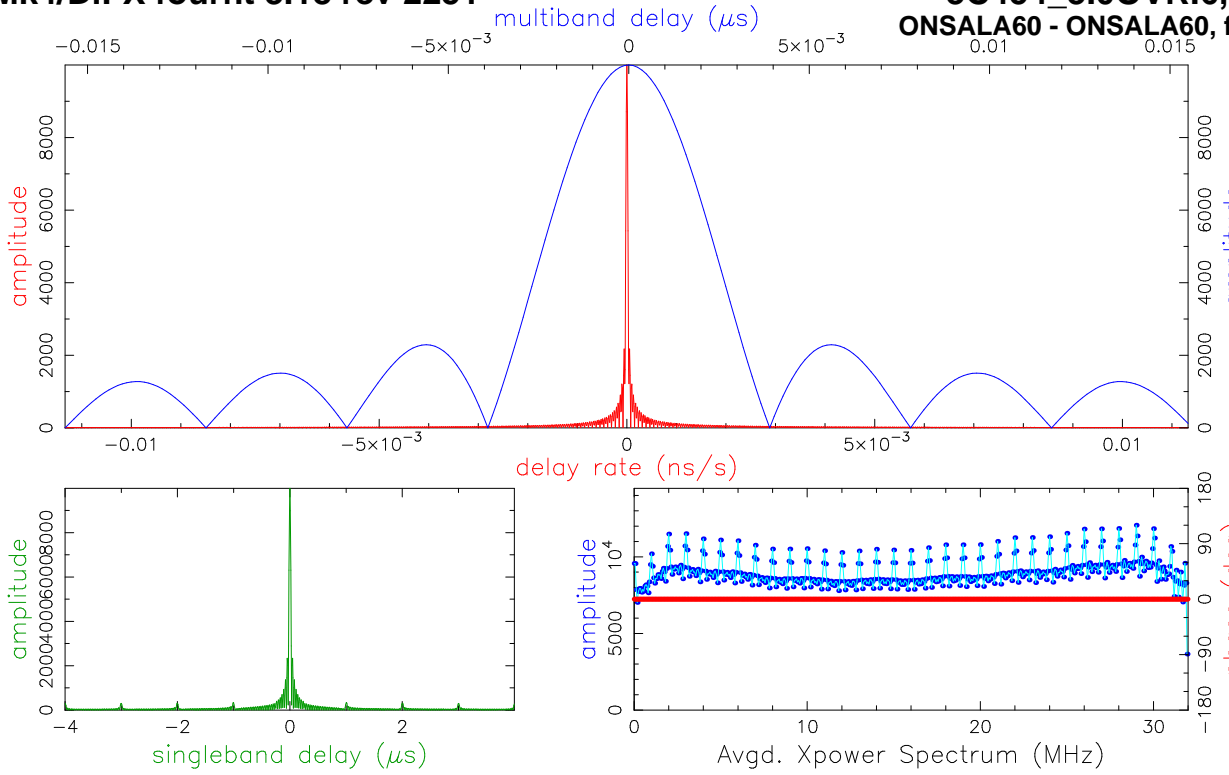


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	42.1	53.6	44.0	48.7	44.7	44.1	49.5	53.4	Phase	47.9
	0.7	1.7	1.6	1.6	1.4	1.4	1.6	1.3	Ampl.	1.4
	511.5	510.8	510.9	511.1	511.1	510.4	510.7	510.7	Sbd box	510.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		-4.78520612266E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)	1.34352E-02	+/- 4.5E-05
Sband delay (usec)		-4.78520554039E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)	-1.72325E-02	+/- 3.6E-04
Phase delay (usec)		-4.78518830634E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)	1.54581E-06	+/- 7.7E-08
Delay rate (us/s)		1.02212214883E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)	3.43147E-08	+/- 4.5E-10
Total phase (deg)		-255.0		Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)	47.9	+/- 2.4

ph/seg (deg) 57.8 5.7 Theor. Amplitude 1.435 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 50.7 10.0 Search (2048X32) 1.421 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 4.8 3.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 20.2 5.9 Inc. seg. avg. 2.126 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XP..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XP.W.77.0OVR16

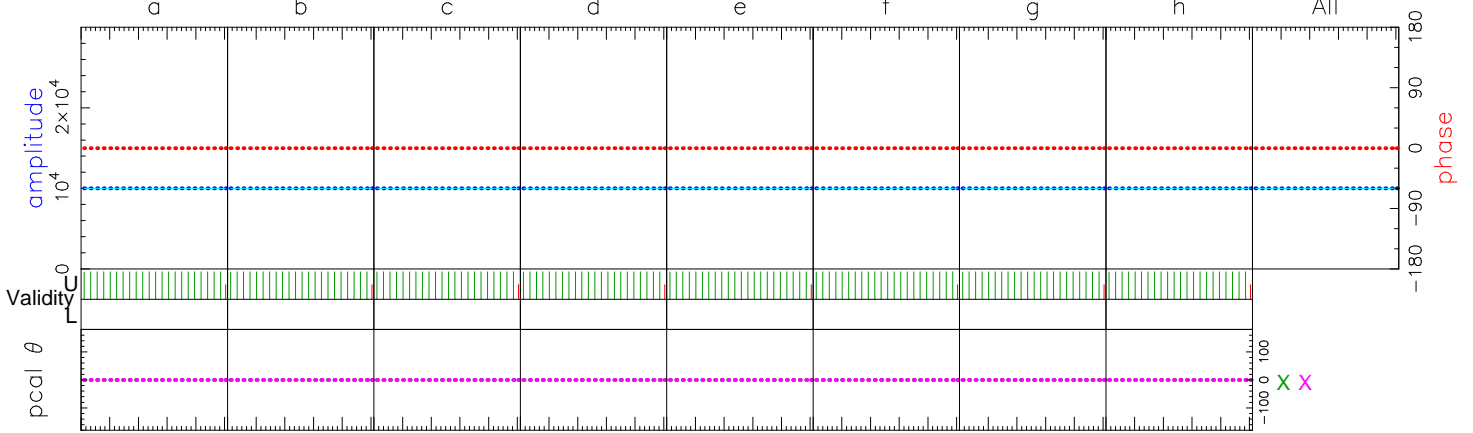


Fringe quality 9

SNR 334807.7
 Int time 299.796
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

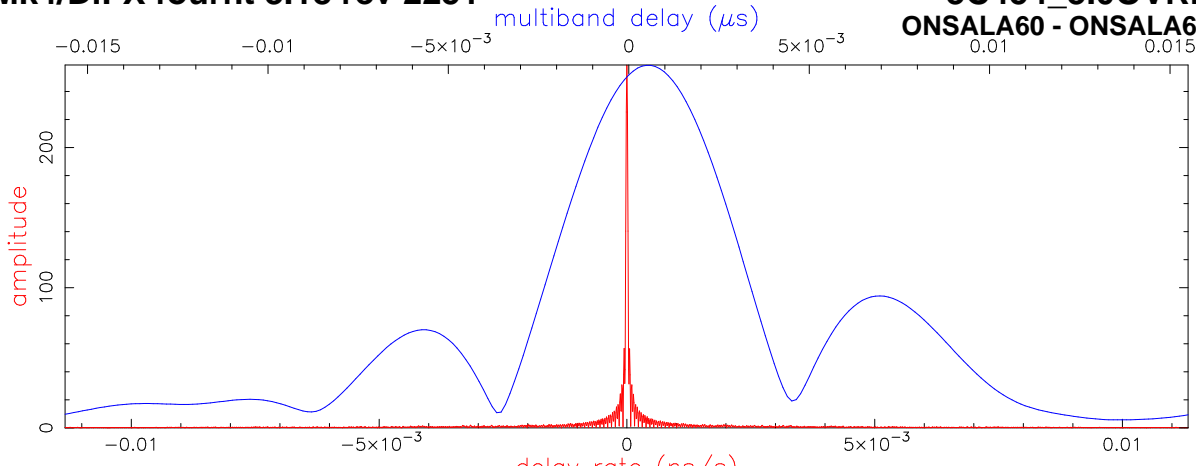
Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085231
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



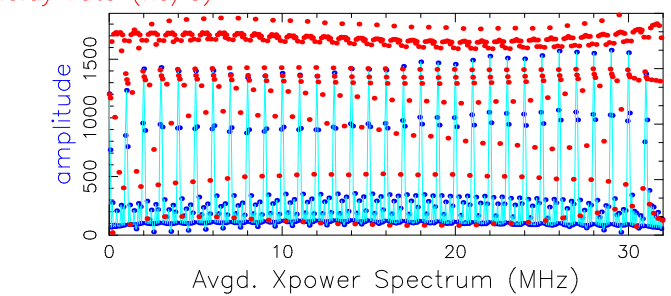
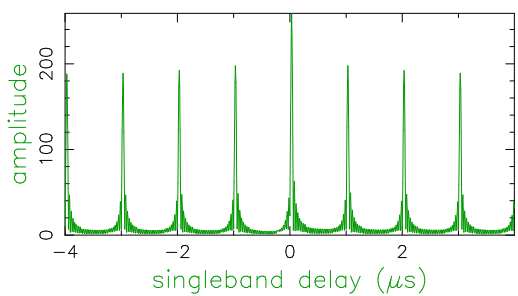
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	Sbd box	513.0
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X 0	0	0	0	0	0	0	0	0	PC freqs	
X 0	0	0	0	0	0	0	0	0	PC phase	
X:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
X W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
X W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
Group delay (usec)(sbd)	0.0000000000E+00		Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	6.5E-09		
Sband delay (usec)	0.0000000000E+00		Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.1E-08		
Phase delay (usec)	0.0000000000E+00		Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.1E-11		
Delay rate (us/s)	0.0000000000E+00		Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	6.4E-14		
Total phase (deg)	0.0		Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.999 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 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: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XX..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//XX.W.24.00VRI6



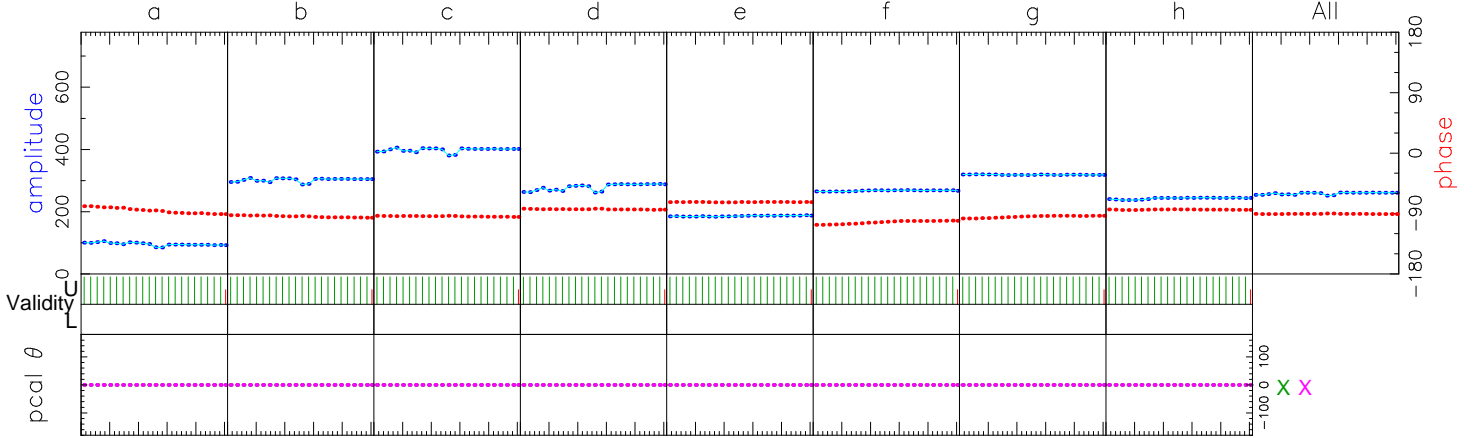
Fringe quality 8

SNR 8669.4
 Int time 299.796
 Amp 258.938
 Phase -90.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.030602
 MBD 0.000530
 Fringe rate (Hz)
 0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085239
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

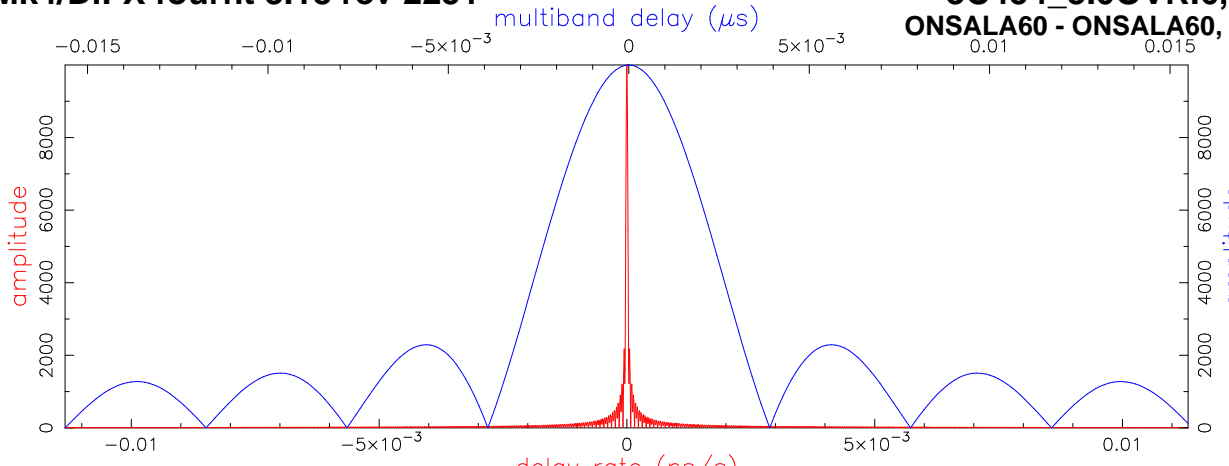
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



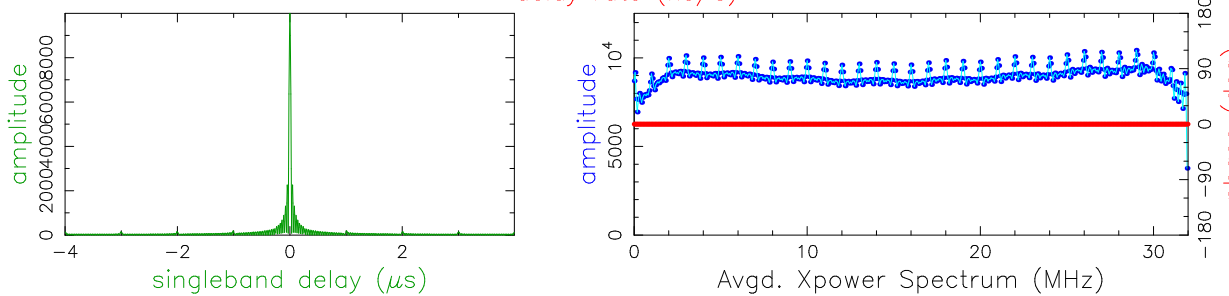
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-85.3	-94.3	-94.0	-83.6	-72.9	-103.0	-94.7	-84.2	Phase	-90.5
	96.0	302.2	398.7	279.0	186.3	267.5	318.7	242.9	Ampl.	261.4
	644.2	517.1	517.0	517.2	516.3	645.2	517.2	517.3	Sbd box	516.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.177975000000E-02	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	5.29750E-04	+/-	2.5E-07
Sband delay (usec)	3.060250000000E-02	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	3.06025E-02	+/-	2.0E-06
Phase delay (usec)	-2.91891668110E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-2.91892E-06	+/-	4.3E-10
Delay rate (us/s)	1.44545754395E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	1.44546E-10	+/-	2.5E-12
Total phase (deg)	-90.5	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-90.5	+/-	0.0

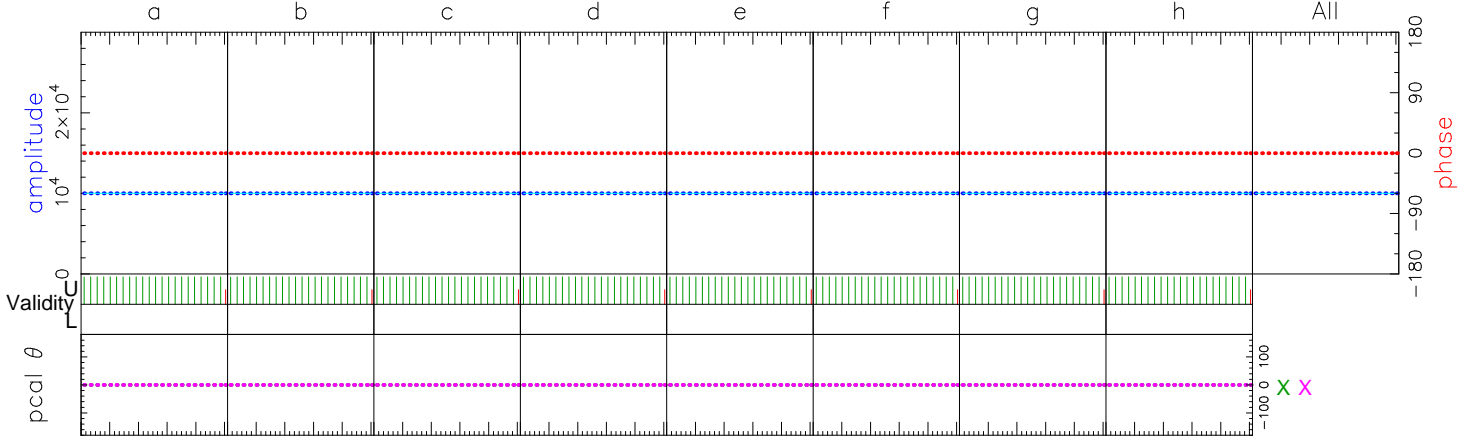
ph/seg (deg)	0.2	Theor.	Amplitude	258.938 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	1.3	0.0	Search (2048X32)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	10.2	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.7	0.0	Inc. seg. avg.	258.767	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	261.413	Data rate(Mb/s): 1024	nlags: 512 t_cohere infinite			



Fringe quality 9
 SNR 334807.7
 Int time 299.796
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085224
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

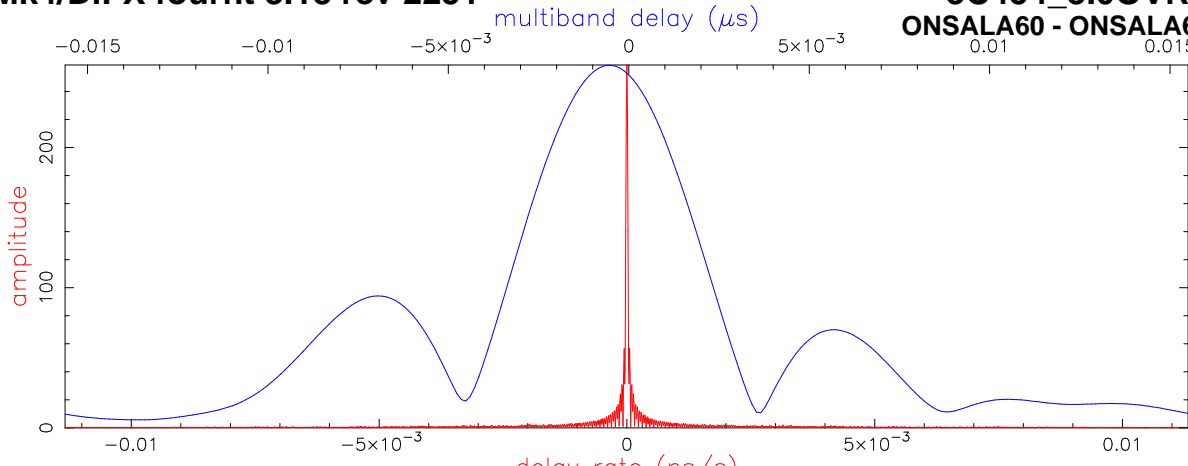


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



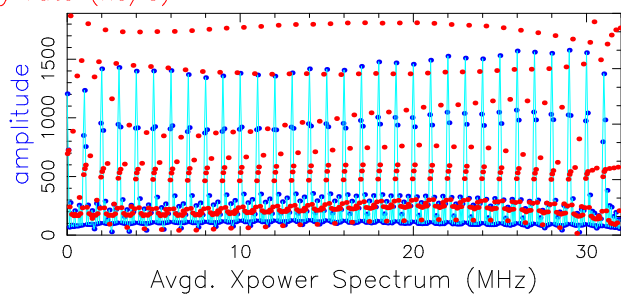
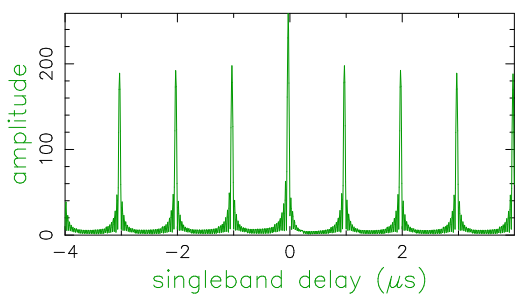
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	Sbd box	513.0
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X 0	0	0	0	0	0	0	0	0	PC freqs	
X 0	0	0	0	0	0	0	0	0	PC freqs	
X:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000		
X W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
X W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00		Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	6.5E-09		
Sband delay (usec)	0.0000000000E+00		Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.1E-08		
Phase delay (usec)	0.0000000000E+00		Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.1E-11		
Delay rate (us/s)	0.0000000000E+00		Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	6.4E-14		
Total phase (deg)	0.0		Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 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: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XX..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XX.W.5.0OVR16



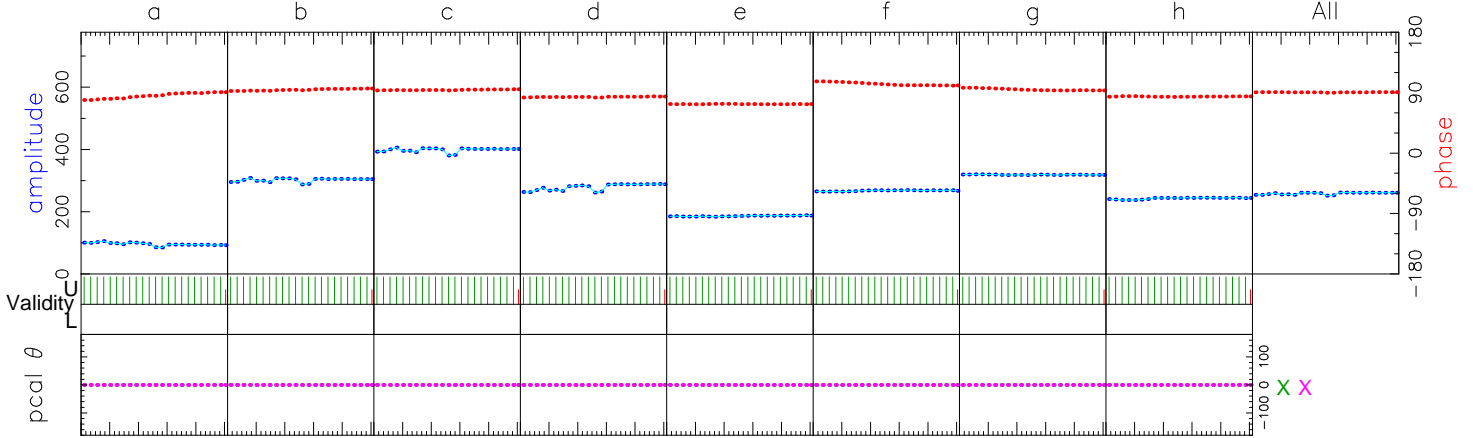
Fringe quality 8

SNR 8669.4
 Int time 299.796
 Amp 258.938
 Phase 90.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.030602
 MBD -0.000530
 Fringe rate (Hz)
 -0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085246
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

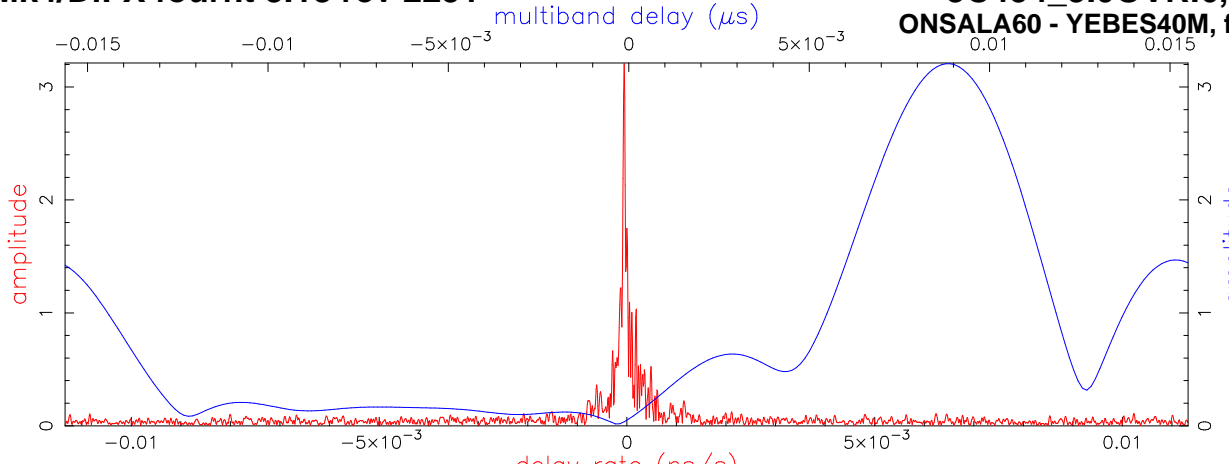


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	85.3	94.3	94.0	83.6	72.9	103.0	94.7	84.2	Phase	90.5
	96.0	302.2	398.7	279.0	186.3	267.5	318.7	242.9	Ampl.	261.4
	381.8	508.9	509.0	508.8	509.7	380.8	508.8	508.7	Sbd box	509.1
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -3.17797500000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -5.29750E-04 +/- 2.5E-07
 Sband delay (usec) -3.06025000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -3.06025E-02 +/- 2.0E-06
 Phase delay (usec) 2.91891668100E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.91892E-06 +/- 4.3E-10
 Delay rate (us/s) -1.44545754395E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -1.44546E-10 +/- 2.5E-12
 Total phase (deg) 90.5 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 90.5 +/- 0.0

RMS Theor. Amplitude 258.938 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (2048X32) 254.148 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 1.3 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 10.2 0.0 Inc. seg. avg. 258.767 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.7 0.0 Inc. frq. avg. 261.413 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 247.6 el 32.5 pa 31.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XX..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//XX.W.62.00VRI6



Fringe quality 4

SNR 104.9

Int time 285.318

Ampl 3.213

Phase 127.6

PFD 0.0e+00

Delays (us)

SBD -0.022359

MBD 0.008875

Fringe rate (Hz)

-0.004712

Ion TEC 0.000

Ref freq (MHz)

86140.000

AP (sec) 0.512

Exp. f191a

Exper # 16383

Yr:day 2019:094

Start 125514.34

Stop 130000.03

FRT 125730.00

Corr/FF/build

2019:176:083529

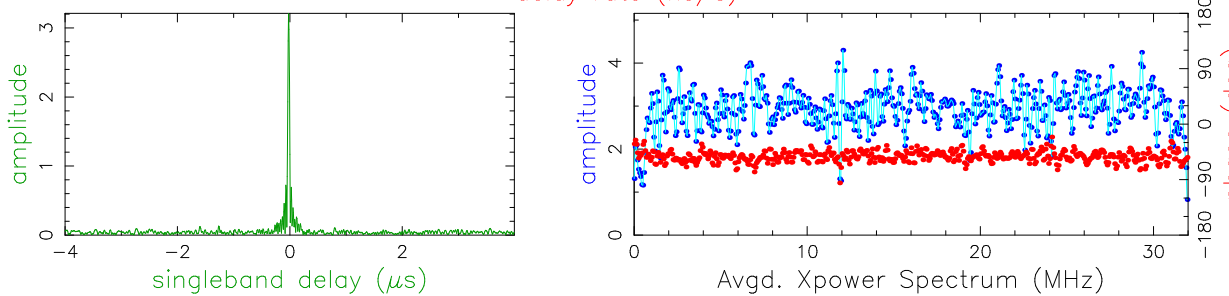
2019:176:085231

2018:249:082454

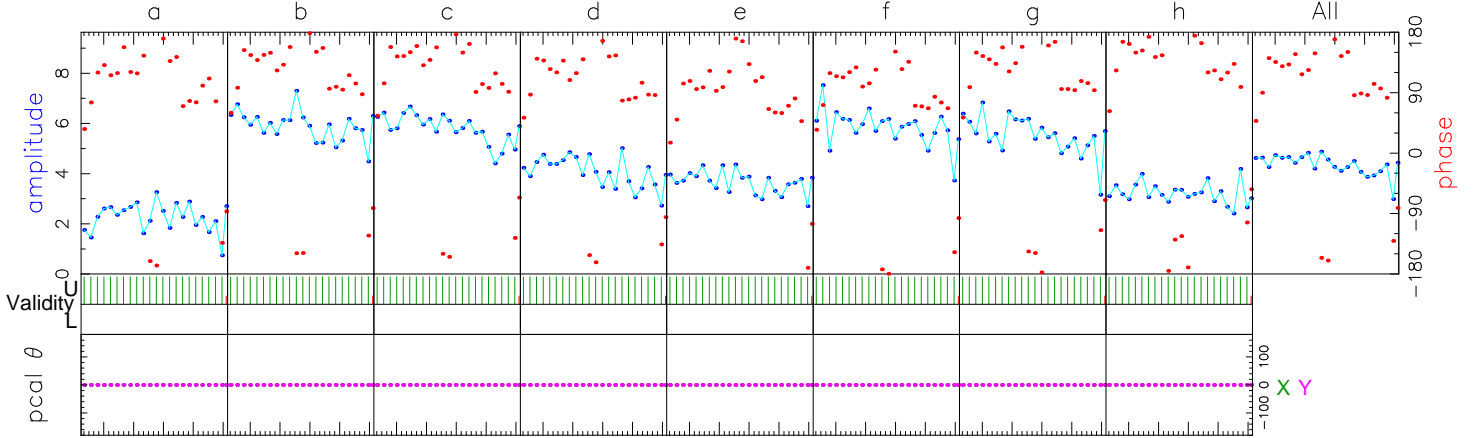
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
123.2	136.9	140.4	123.4	97.5	107.8	136.0	152.3	Phase	127.6
1.7	4.3	4.3	3.0	2.7	4.4	4.0	2.3	Ampl.	3.3
511.3	510.6	510.3	509.8	510.2	510.0	510.7	510.2	Sbd box	510.1
U/L 558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
X 0	0	0	0	0	0	0	0	PC freqs	
Y 0	0	0	0	0	0	0	0	PC freqs	
X:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
X W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-4.42166318290E+03		Apriori delay (usec)	-4.42164080740E+03		Resid mbdelay (usec)	8.87450E-03	+/-	2.1E-05
Sband delay (usec)	-4.42166316640E+03		Apriori clock (usec)	1.8047026E+01		Resid sbdelay (usec)	-2.23590E-02	+/-	1.6E-04
Phase delay (usec)	-4.42164080329E+03		Apriori clockrate (us/s)	5.8699996E-07		Resid phdelay (usec)	4.11483E-06	+/-	3.5E-08
Delay rate (us/s)	7.06486383406E-02		Apriori rate (us/s)	7.06486930427E-02		Resid rate (us/s)	-5.47021E-08	+/-	2.1E-10
Total phase (deg)		73.7	Apriori accel (us/s/s)	2.96955604669E-05		Resid phase (deg)	127.6	+/-	1.1

ph/seg (deg) 46.6 2.6 Search (2048X32) 3.204 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

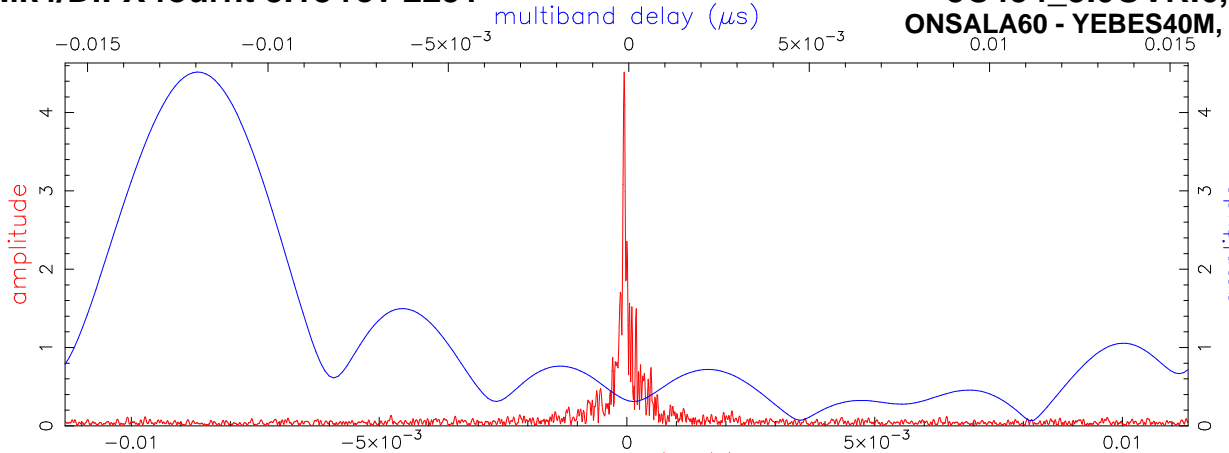
amp/seg (%) 37.5 4.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

ph/frq (deg) 19.4 1.5 Inc. seg. avg. 4.342 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 30.8 2.7 Inc. frq. avg. 3.338 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011

X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator

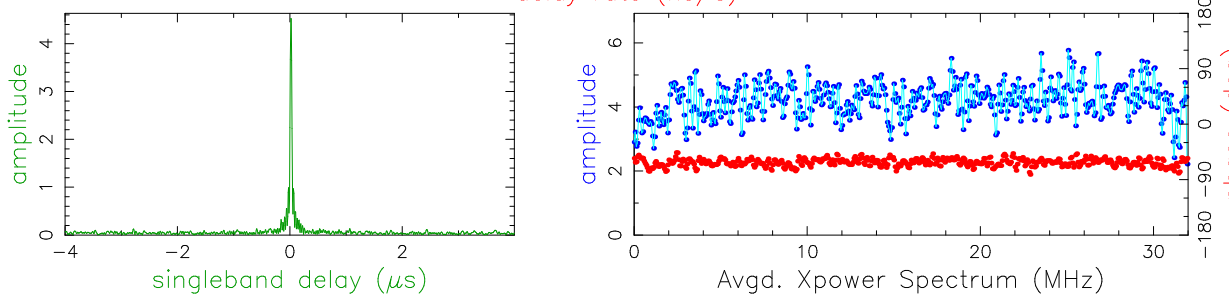
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XY..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XY.W.22.0OVR16



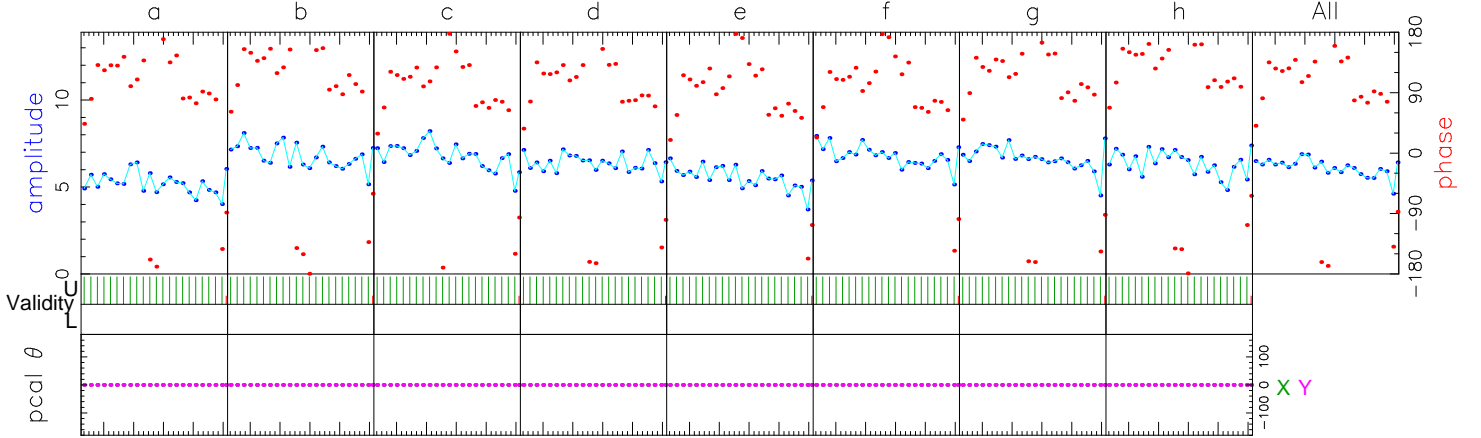
Fringe quality 5

SNR 151.4
Int time 285.318
Amp 4.634
Phase 119.0
PFD 0.0e+00
Delays (us)
SBD 0.019451
MBD -0.012026
Fringe rate (Hz)
-0.004732
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085224
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec

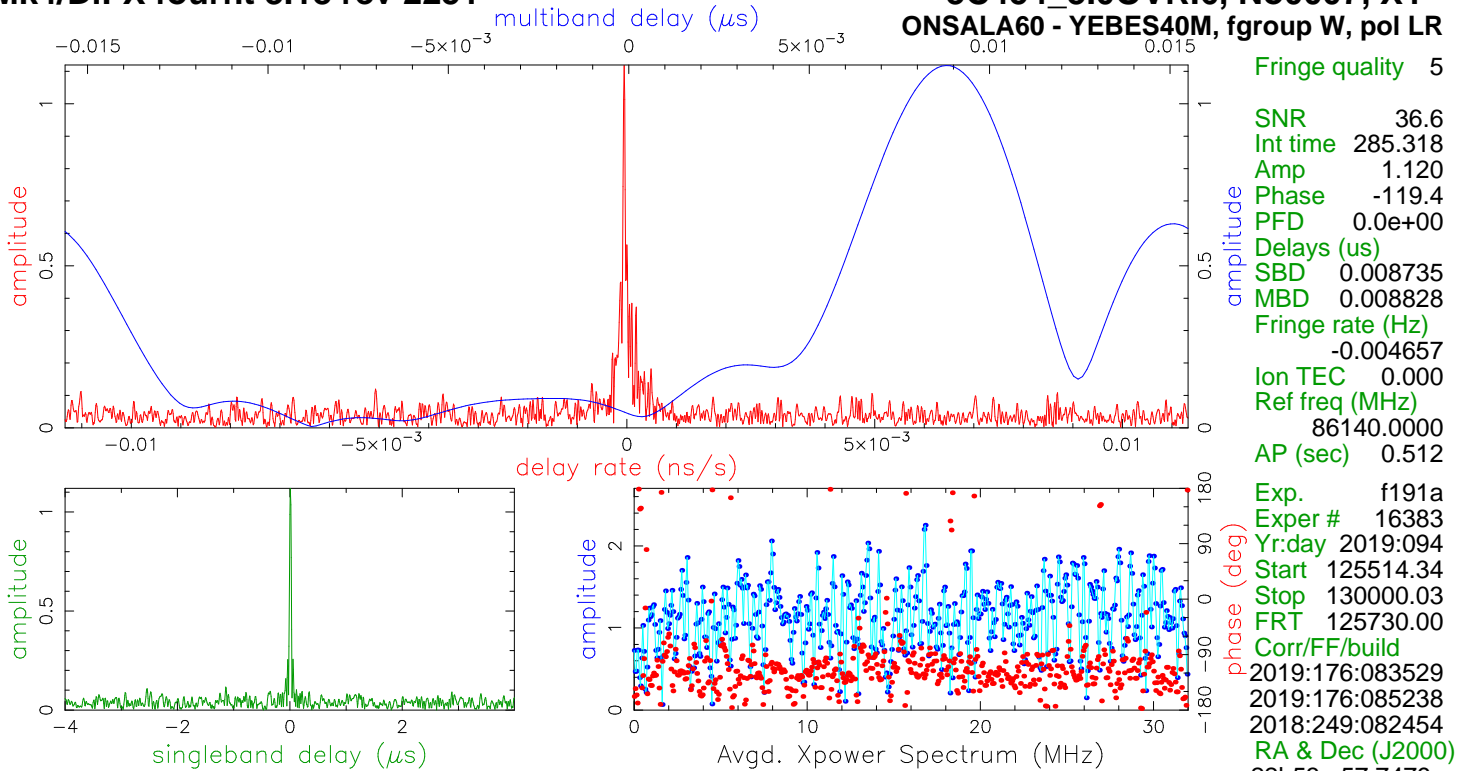


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	120.3	135.8	108.7	114.6	98.0	104.8	125.7	142.7	Phase	119.0
	3.8	5.0	5.1	4.7	4.1	5.0	5.0	4.6	Ampl.	4.7
	515.5	515.5	515.4	515.6	515.3	515.5	515.7	515.5	Sbd box	515.5
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.42162158390E+03		Apriori delay (usec)	-4.42164080740E+03		Resid mbdelay (usec)	-1.20265E-02	+/-	1.4E-05	
Sband delay (usec)	-4.42162135690E+03		Apriori clock (usec)	1.8047026E+01		Resid sbdelay (usec)	1.94505E-02	+/-	1.1E-04	
Phase delay (usec)	-4.42164080356E+03		Apriori clockrate (us/s)	5.8699996E-07		Resid phdelay (usec)	3.83899E-06	+/-	2.4E-08	
Delay rate (us/s)	7.06486381146E-02		Apriori rate (us/s)	7.06486930427E-02		Resid rate (us/s)	-5.49281E-08	+/-	1.5E-10	
Total phase (deg)		65.2	Apriori accel (us/s/s)	2.96955604669E-05		Resid phase (deg)	119.0	+/-	0.8	

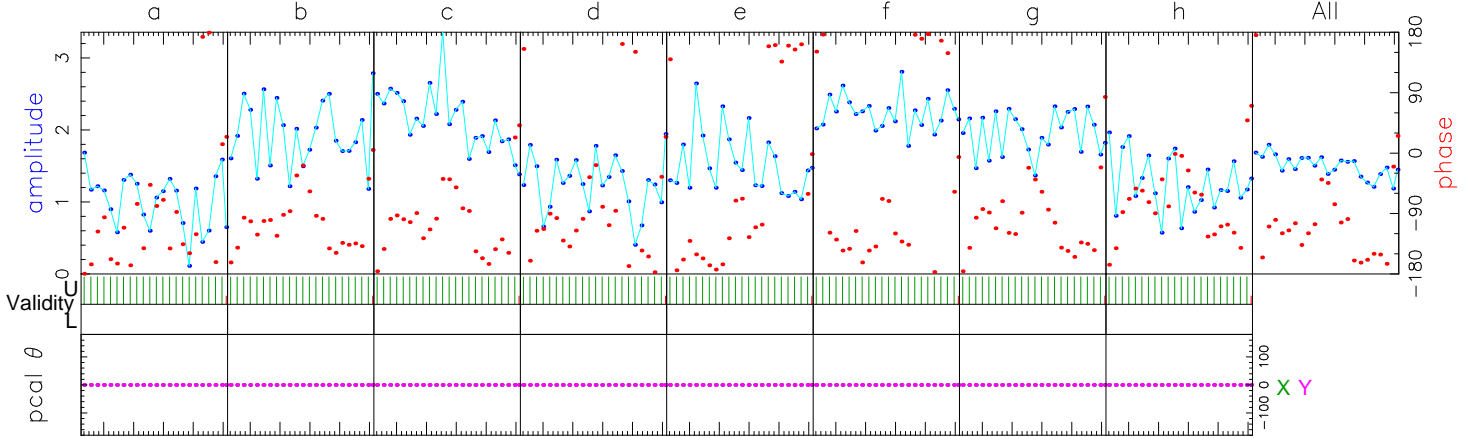
RMS Theor. Amplitude 4.634 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 46.7 1.8 Search (2048X32) 4.493 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 33.5 3.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 16.6 1.1 Inc. seg. avg. 6.108 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.7 1.9 Inc. frq. avg. 4.659 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XY..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XY.W.3.0OVR16



Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec

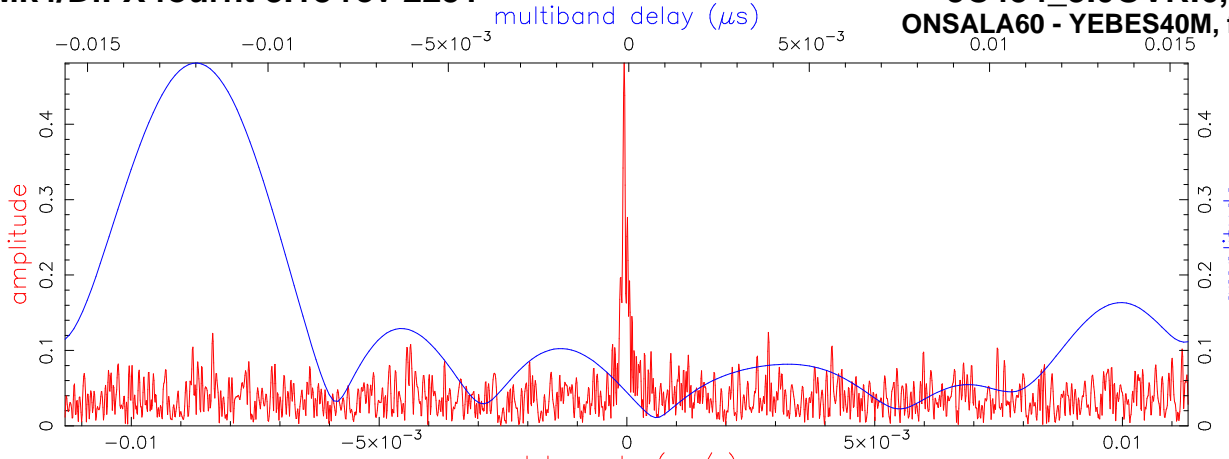


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-125.6	-107.0	-106.2	-119.4	-154.2	-146.9	-109.6	-81.9	Phase	-119.4
	0.7	1.5	1.6	0.8	1.1	1.6	1.5	0.8	Ampl.	1.2
	513.8	514.7	514.1	514.0	514.6	514.2	514.6	514.2	Sbd box	514.1
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.42163197965E+03		Apriori delay (usec)	-4.42164080740E+03		Resid mbdelay (usec)	8.82775E-03	+/-	5.9E-05	
Sband delay (usec)	-4.42163207240E+03		Apriori clock (usec)	1.8047026E+01		Resid sbdelay (usec)	8.73500E-03	+/-	4.7E-04	
Phase delay (usec)	-4.42164081125E+03		Apriori clockrate (us/s)	5.8699996E-07		Resid phdelay (usec)	-3.85119E-06	+/-	1.0E-07	
Delay rate (us/s)	7.06486389811E-02		Apriori rate (us/s)	7.06486930427E-02		Resid rate (us/s)	-5.40615E-08	+/-	6.1E-10	
Total phase (deg)		-173.3	Apriori accel (us/s/s)	2.96955604669E-05		Resid phase (deg)	-119.4	+/-	3.1	

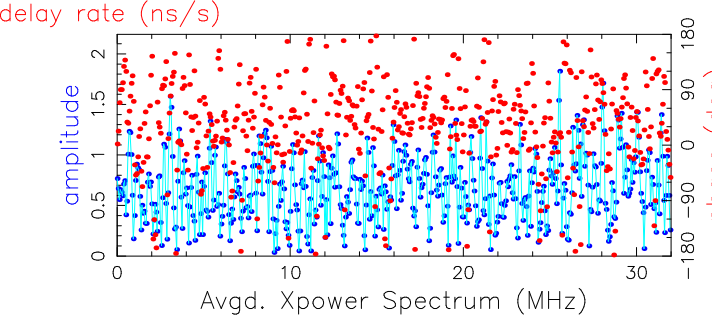
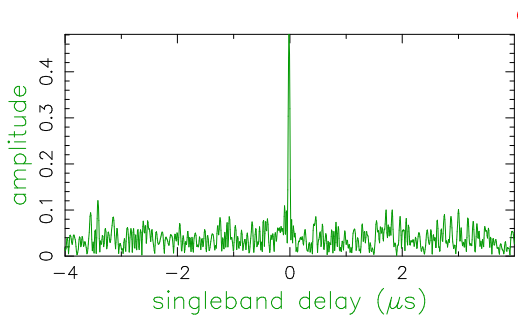
	RMS	Theor.	Amplitude	1.120 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
ph/seg (deg)	45.7	7.5	Search (2048X32)	1.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	36.7	13.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.3	4.4	Inc. seg. avg.	1.488	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	34.2	7.7	Inc. frq. avg.	1.197	Data rate(Mb/s): 1024	nlags: 512 t_cohere infinite			

X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator

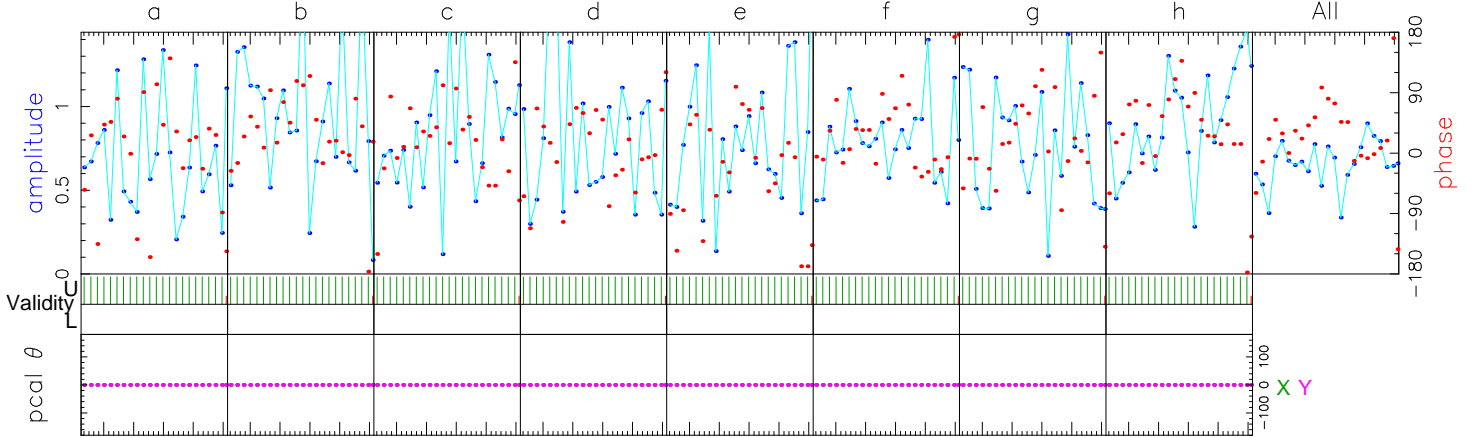
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XY..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XY.W.42.0OVR16



Fringe quality 9
 SNR 15.7
 Int time 285.318
 Amp 0.481
 Phase 25.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.015318
 MBD -0.011991
 Fringe rate (Hz)
 -0.004766
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085246
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



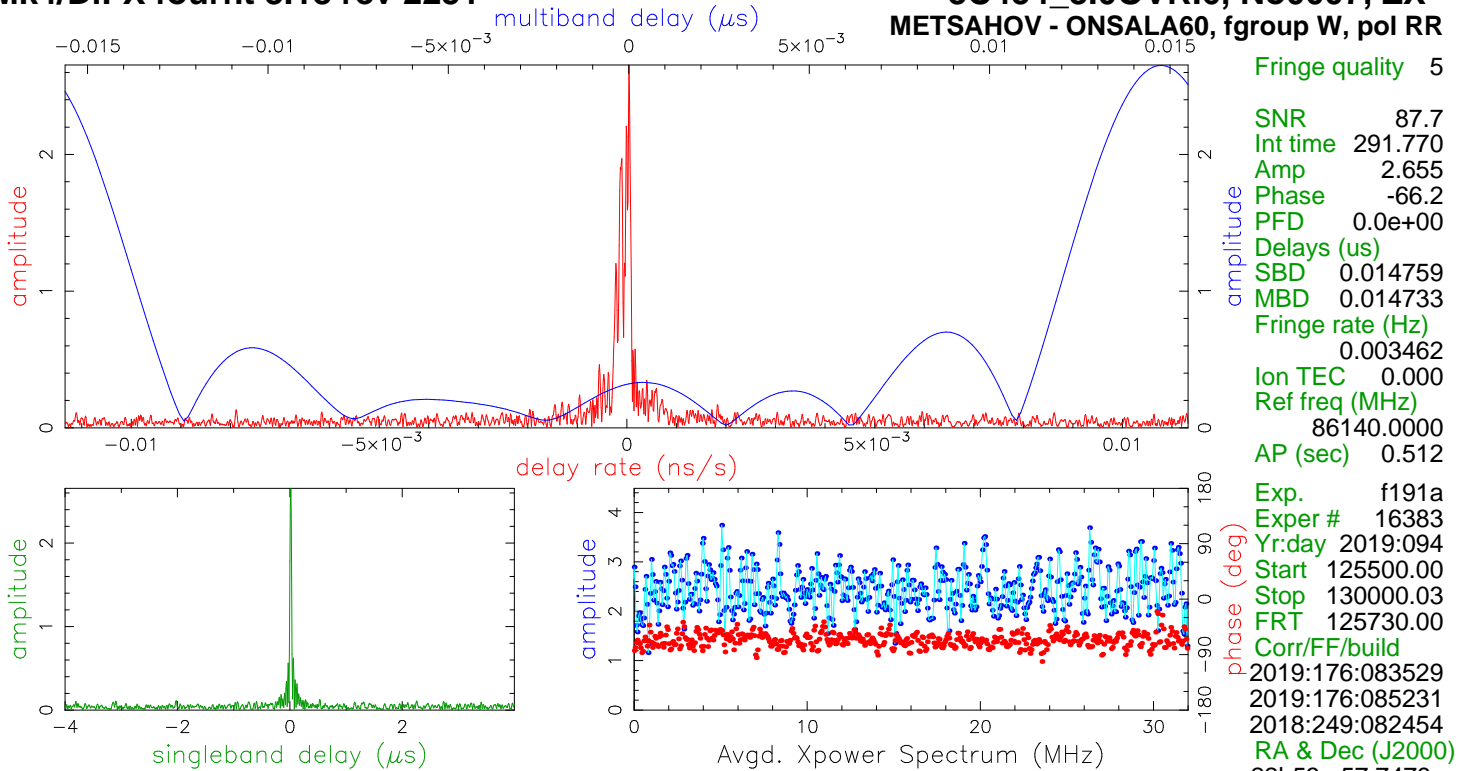
Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	42.7	37.3	15.6	6.6	17.6	21.9	14.6	48.3	Phase	25.6
	0.3	0.7	0.6	0.6	0.3	0.5	0.4	0.5	Ampl.	0.5
	511.8	510.5	511.0	511.2	511.7	510.6	510.8	511.3	Sbd box	511.0
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.42165279865E+03			Apriori delay (usec)	-4.42164080740E+03		Resid mbdelay (usec)	-1.19912E-02	+/-	1.4E-04
Sband delay (usec)	-4.42165612540E+03			Apriori clock (usec)	1.8047026E+01		Resid sbdelay (usec)	-1.53180E-02	+/-	1.1E-03
Phase delay (usec)	-4.42164080658E+03			Apriori clockrate (us/s)	5.8699996E-07		Resid phdelay (usec)	8.26450E-07	+/-	2.4E-07
Delay rate (us/s)	7.06486377149E-02			Apriori rate (us/s)	7.06486930427E-02		Resid rate (us/s)	-5.53277E-08	+/-	1.4E-09
Total phase (deg)		-28.3		Apriori accel (us/s/s)	2.96955604669E-05		Resid phase (deg)	25.6	+/-	7.3

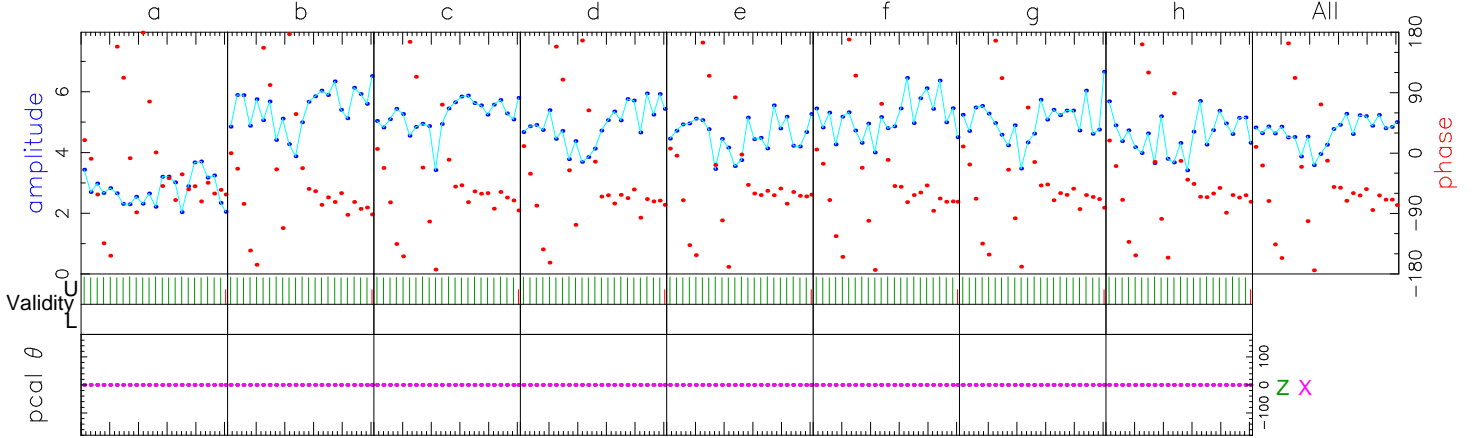
RMS Theor. Amplitude 0.481 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.4 17.5 Search (2048X32) 0.477 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 46.2 30.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 16.3 10.3 Inc. seg. avg. 0.630 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.7 18.0 Inc. frq. avg. 0.489 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 247.6 el 32.5 pa 31.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -383.023 2322.219 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XY..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XY.W.61.0OVR16



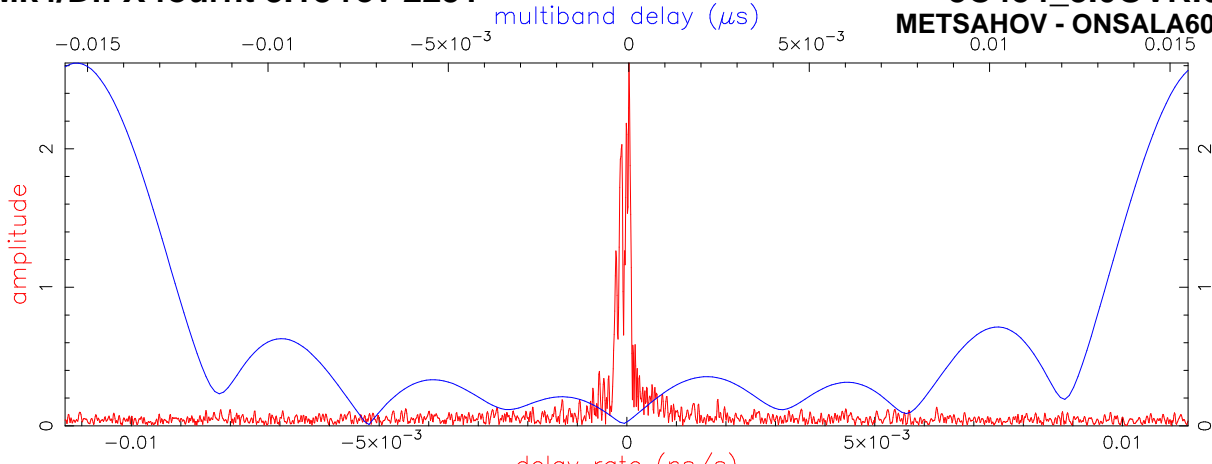
Fringe quality 5
 SNR 87.7
 Int time 291.770
 Amp 2.655
 Phase -66.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.014759
 MBD 0.014733
 Fringe rate (Hz) 0.003462
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085231
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All	
	-51.9	-73.9	-64.8	-72.0	-65.4	-65.3	-64.9	-63.9	Phase	-66.2	
	1.5	3.1	3.0	2.8	2.4	3.0	2.9	2.6	Ampl.	2.7	
	514.5	514.8	514.8	515.0	514.7	514.8	514.9	515.0	Sbd box	514.9	
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used		
Z	0	0	0	0	0	0	0	0	PC freqs		
X	0	0	0	0	0	0	0	0	PC freqs		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
X	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec)(sbd)	-2.30384306227E+03		Apriori delay (usec)		-2.30385779559E+03		Resid mbdelay (usec)		1.47333E-02	+/- 2.5E-05	
Sband delay (usec)	-2.30384303659E+03		Apriori clock (usec)		-2.4921793E+01		Resid sbdelay (usec)		1.47590E-02	+/- 2.0E-04	
Phase delay (usec)	-2.30385779772E+03		Apriori clockrate (us/s)		-2.2999999E-07		Resid phdelay (usec)		-2.13409E-06	+/- 4.2E-08	
Delay rate (us/s)	-2.56650352586E-02		Apriori rate (us/s)		-2.56650754465E-02		Resid rate (us/s)		4.01880E-08	+/- 2.4E-10	
Total phase (deg)			Apriori accel (us/s/s)		1.29260425995E-05		Resid phase (deg)		-66.2	+/- 1.3	
	RMS	Theor.	Amplitude	2.655 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	69.1	3.1	Search (2048X32)	2.607		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-4.000	4.000	
amp/seg (%)	77.9	5.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	7.2	1.8	Inc. seg. avg.	4.672		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	18.1	3.2	Inc. frq. avg.	2.662		Data rate(Mb/s): 1024		nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

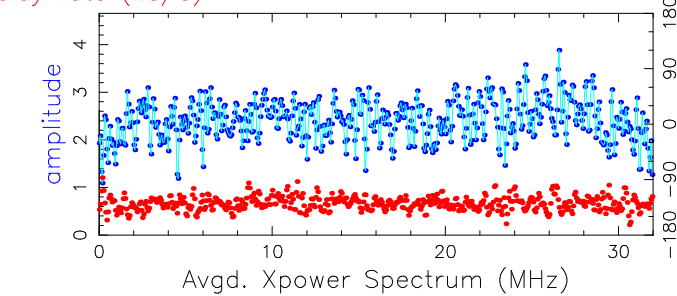
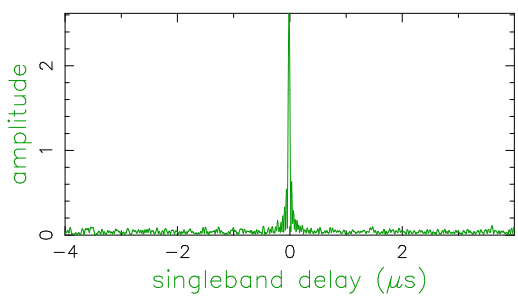
Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.25.00VRI6



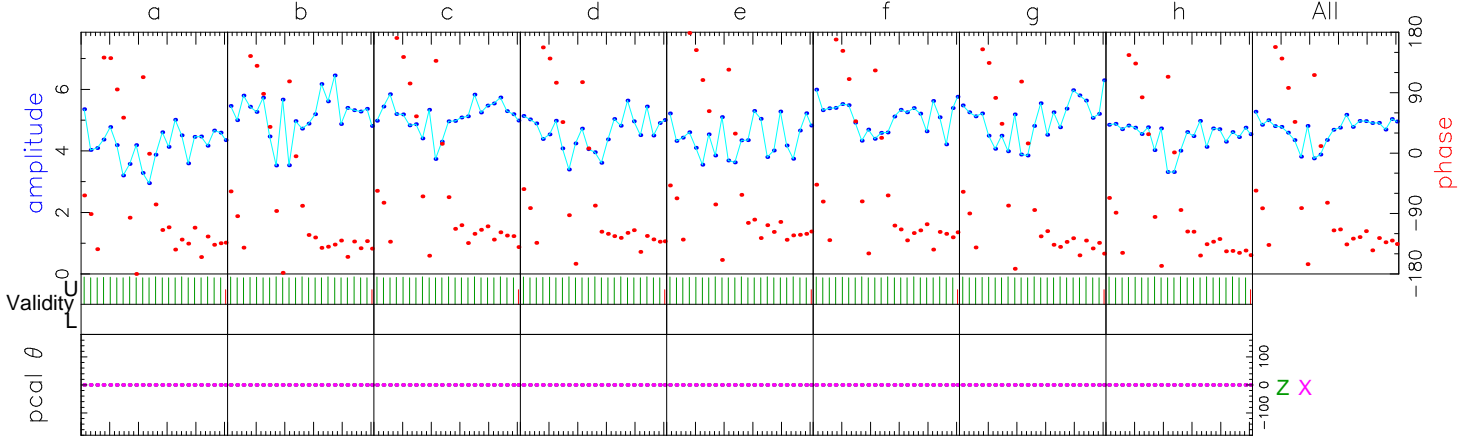
Fringe quality 5

SNR 86.5
Int time 291.770
Amp 2.620
Phase -129.0
PFD 0.0e+00
Delays (us)
SBD -0.015329
MBD -0.015299
Fringe rate (Hz) 0.003398
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085224
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



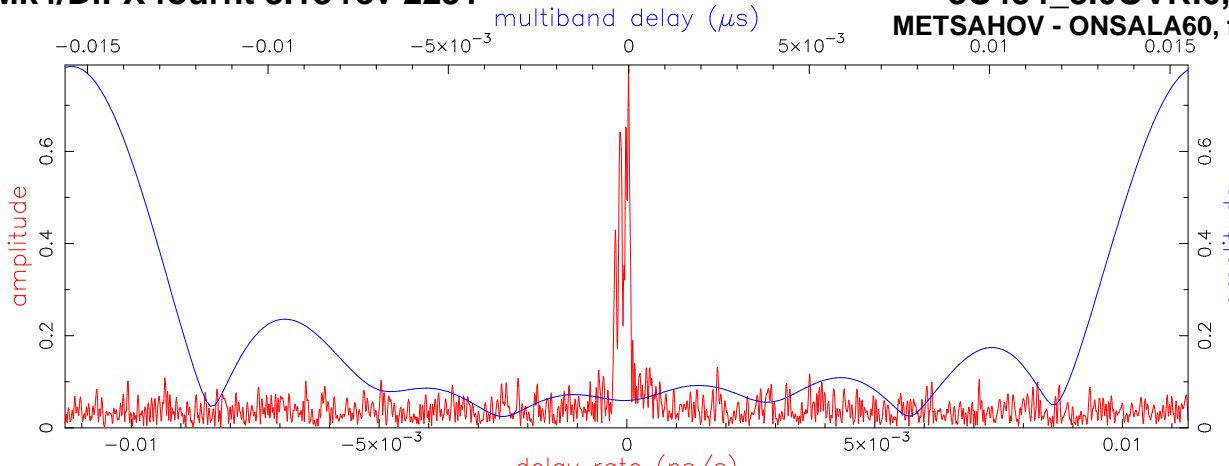
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-134.2	-137.9	-121.0	-128.2	-116.9	-120.9	-134.9	-138.7	Phase	-129.0
	2.4	2.8	2.9	2.5	2.5	2.7	2.8	2.5	Ampl.	2.6
	510.9	511.1	511.0	511.0	511.0	511.0	510.9	511.2	Sbd box	511.0
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.30387309477E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	-1.52992E-02	+/-	2.5E-05
Sband delay (usec)	-2.30387312409E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	-1.53285E-02	+/-	2.0E-04
Phase delay (usec)	-2.30385779975E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	-4.16079E-06	+/-	4.3E-08
Delay rate (us/s)	-2.56650359997E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	3.94468E-08	+/-	2.5E-10
Total phase (deg)	-313.3	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	-129.0	+/-	1.3

ph/seg (deg)	69.7	Theor.	3.2	Amplitude	2.620 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	80.7	Search (2048X32)	2.535	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	9.2	Interp.	0.000	Inc. seg. avg.	4.688	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	7.6	Inc. frq. avg.	2.643	Inc. frq. avg.	2.643	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

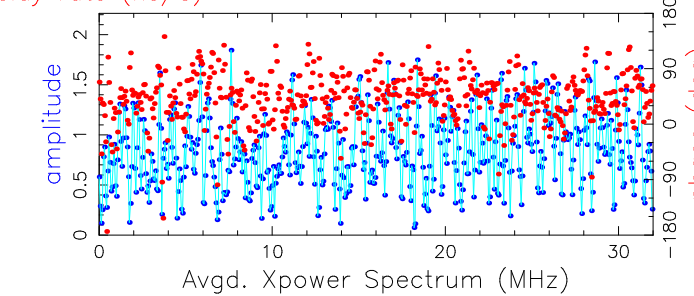
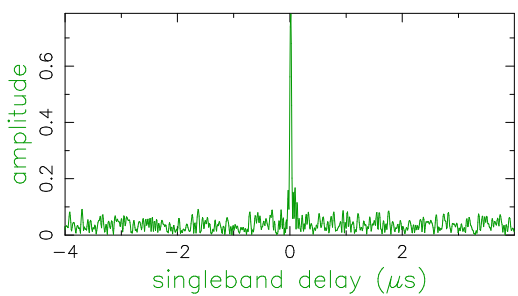
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX...OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.4.OVR16



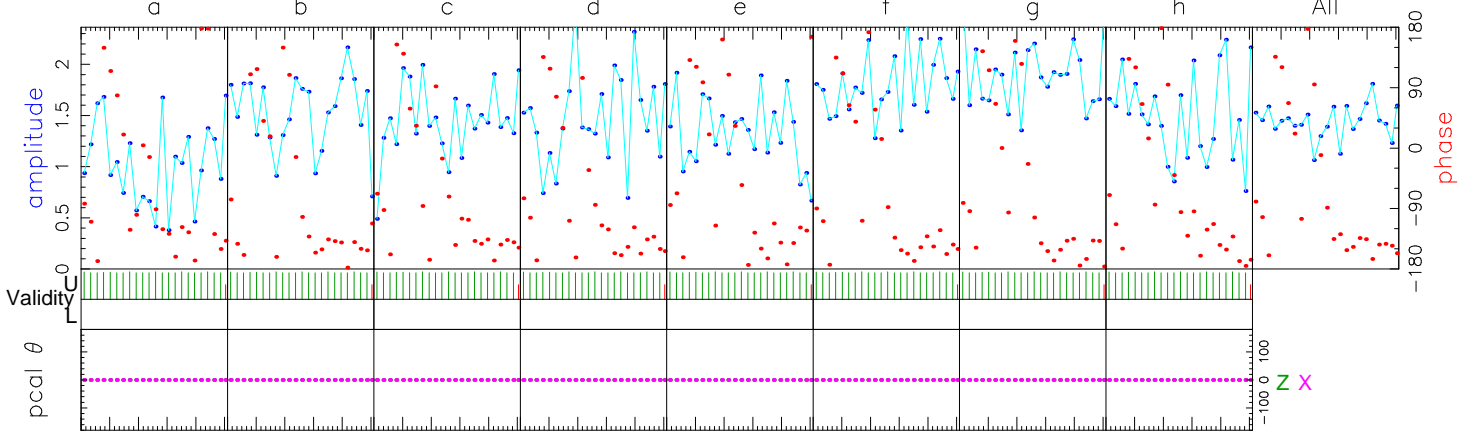
Fringe quality 7

SNR 26.0
 Int time 291.770
 Amp 0.788
 Phase -144.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.014066
 MBD -0.015476
 Fringe rate (Hz)
 0.003284
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085239
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

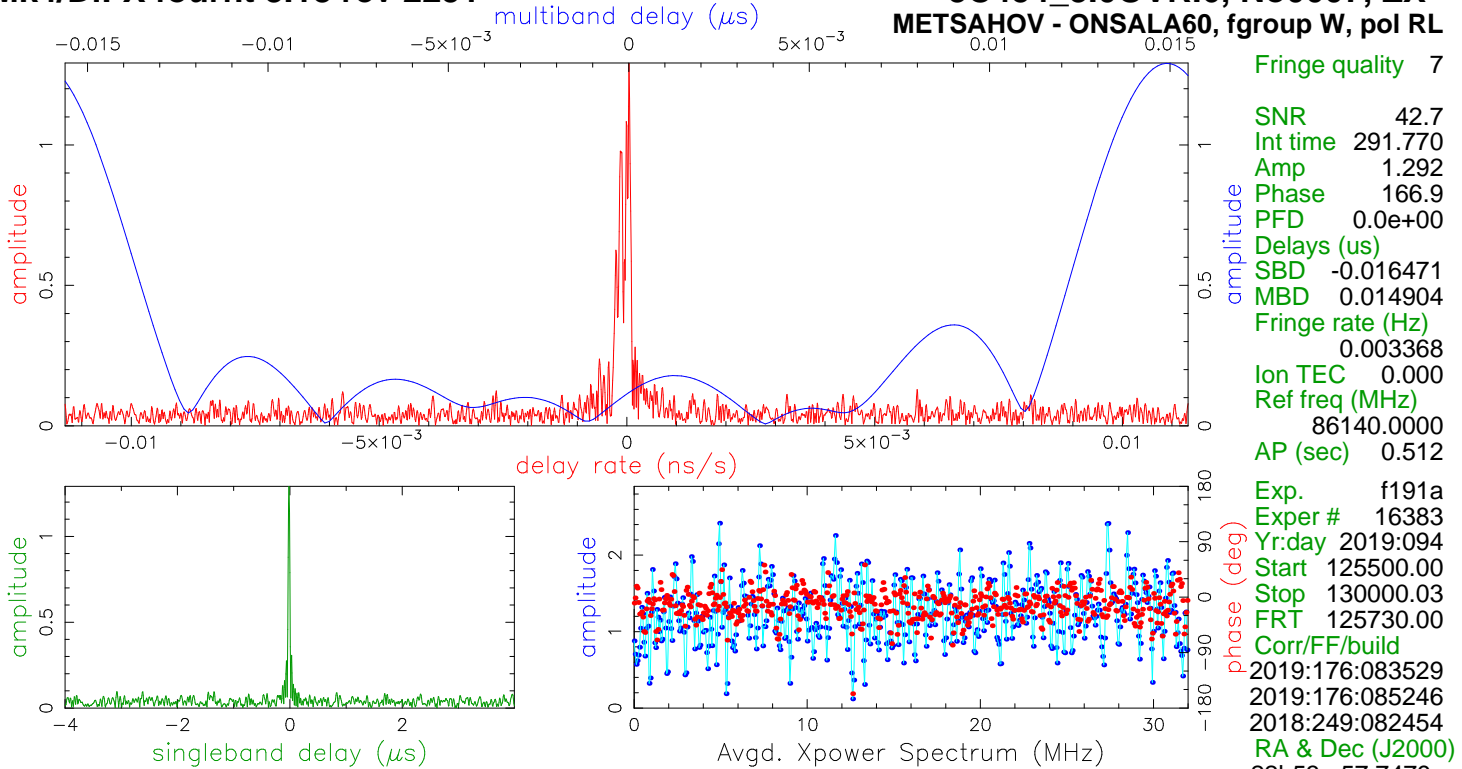


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

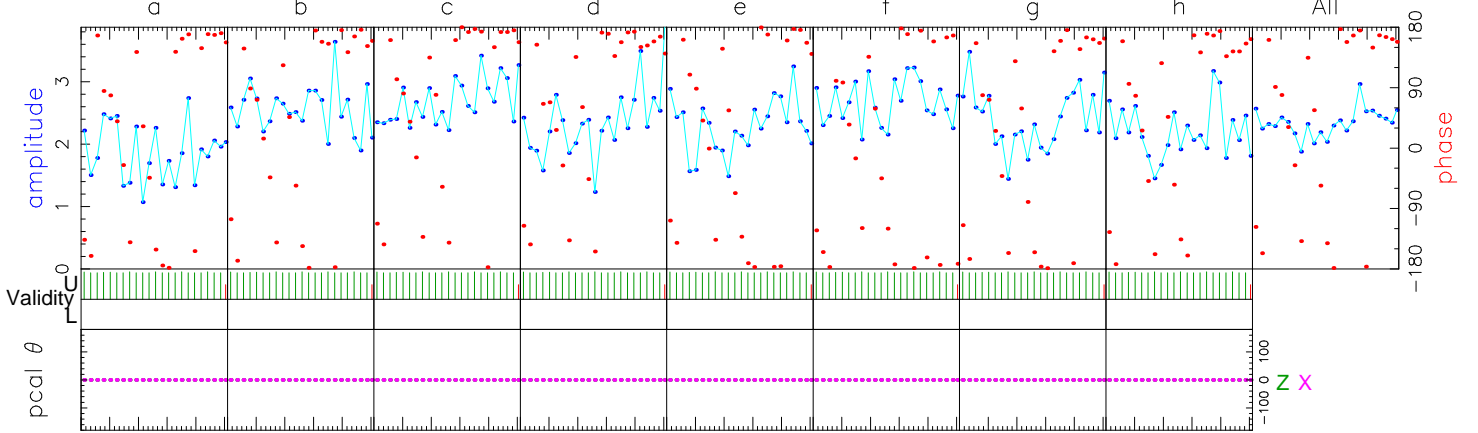


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-143.9	-152.2	-141.2	-137.6	-148.6	-148.9	-146.1	-138.5	Phase	-144.6
	0.6	0.8	0.7	0.9	0.6	0.9	1.0	0.8	Ampl.	0.8
	513.3	515.2	514.8	514.9	514.9	514.9	514.8	514.7	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.30384202180E+03		Apriori delay (usec)		-2.30385779559E+03		Resid mbdelay (usec)		-1.54762E-02	+/- 8.3E-05
Sband delay (usec)	-2.30384372909E+03		Apriori clock (usec)		-2.4921793E+01		Resid sbdelay (usec)		1.40665E-02	+/- 6.6E-04
Phase delay (usec)	-2.30385780025E+03		Apriori clockrate (us/s)		-2.2999999E-07		Resid phdelay (usec)		-4.66179E-06	+/- 1.4E-07
Delay rate (us/s)	-2.56650373183E-02		Apriori rate (us/s)		-2.56650754465E-02		Resid rate (us/s)		3.81282E-08	+/- 8.2E-10
Total phase (deg)			Apriori accel (us/s/s)		1.29260425995E-05		Resid phase (deg)		-144.6	+/- 4.4

ph/seg (deg) 70.0 10.6 Theor. Amplitude 0.788 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.3 18.4 Search (2048X32) 0.763 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 5.7 6.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 19.8 10.9 Inc. seg. avg. 1.416 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX...00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.45.00VRI6



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
163.7	164.8	168.7	156.9	178.5	175.2	163.9	160.6	Phase	166.9
1.0	1.3	1.5	1.2	1.3	1.4	1.4	1.2	Ampl.	1.3
511.7	510.6	510.9	510.8	510.9	510.7	510.7	511.0	Sbd box	510.9
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z 0	0	0	0	0	0	0	0	PC freqs	
X 0	0	0	0	0	0	0	0	PC freqs	
Z:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.30387414170E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	1.49039E-02	+/-	5.1E-05
Sband delay (usec)	-2.30387426709E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	-1.64715E-02	+/-	4.0E-04
Phase delay (usec)	-2.30385779020E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	5.38265E-06	+/-	8.7E-08
Delay rate (us/s)	-2.56650363498E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	3.90968E-08	+/-	5.0E-10
Total phase (deg)	-17.3	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	166.9	+/-	2.7

ph/seg (deg)	68.4	RMS	68.4	Theor.	6.4	Amplitude	1.292 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	82.7	Search (2048X32)	1.249	Interp.	0.000	Apriori rate (us/s)	1.249	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
ph/frq (deg)	7.8	Inc. seg. avg.	2.324	Inc. frq. avg.	1.296	Apriori clockrate (us/s)	-2.2999999E-07	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016	
amp/frq (%)	11.9	Inc. frq. avg.	1.296	u,v (fr/asec)	169.488 512.818	Apriori rate (us/s)	-2.56650754465E-02	Sample rate (MSamp/s):	64	nlags: 512	t_cohere infinite	dr window (ns/s)	-0.011 0.011
						Apriori accel (us/s/s)	1.29260425995E-05	Data rate (Mb/s):	1024	ion window (TEC)	0.00 0.00		