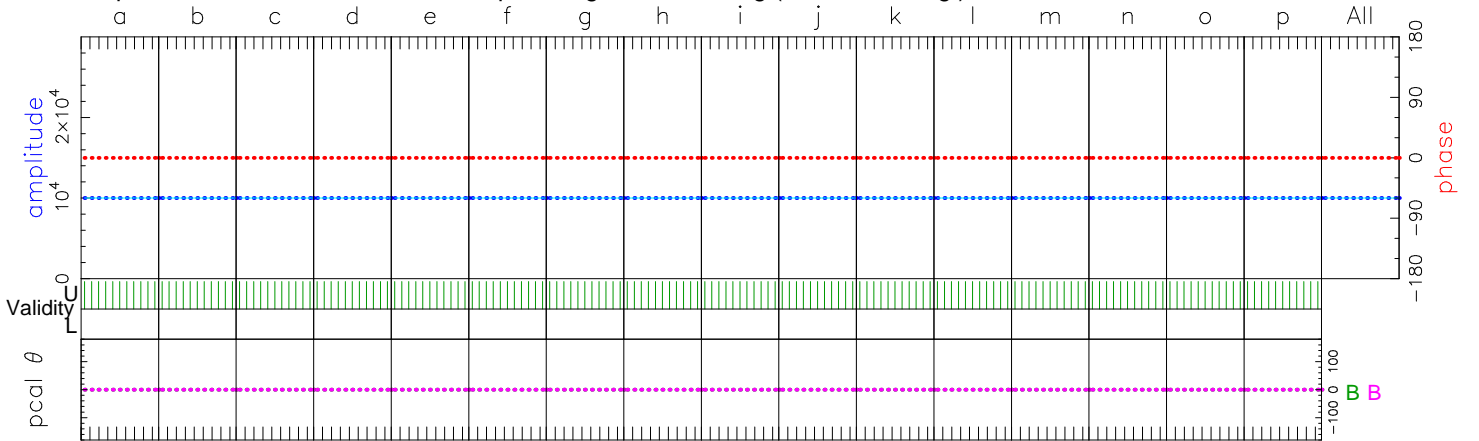


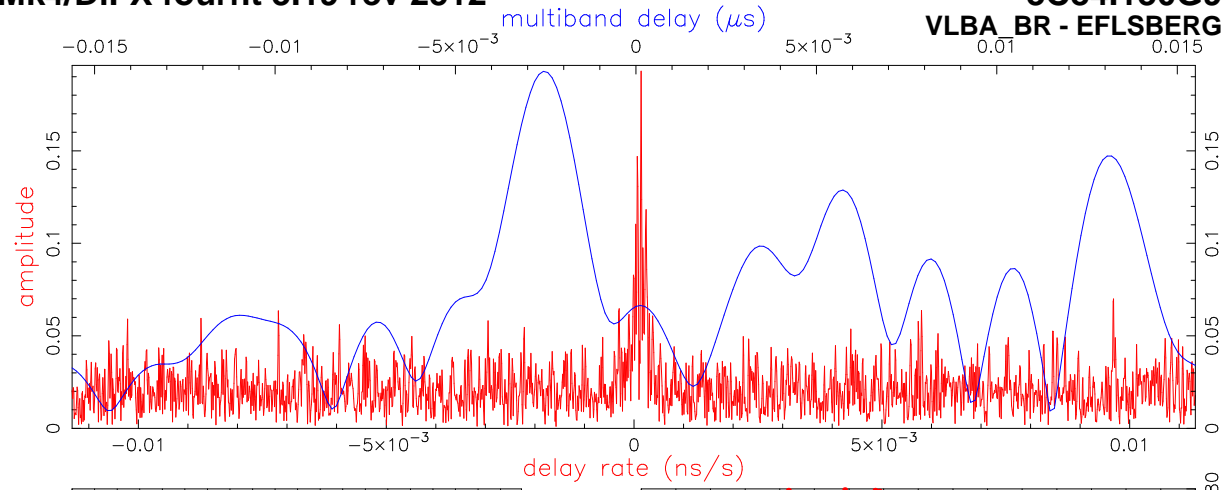
Fringe quality 9
SNR 598860.0
Int time 479.574
Amp 9999.998
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112248
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

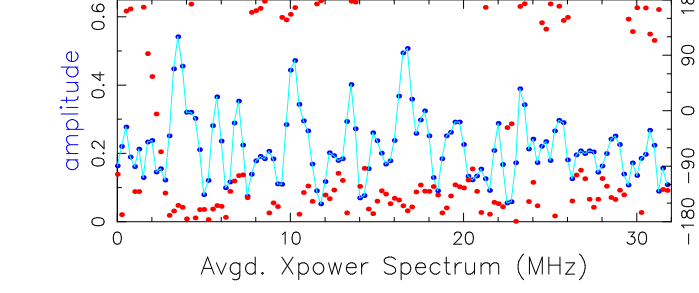
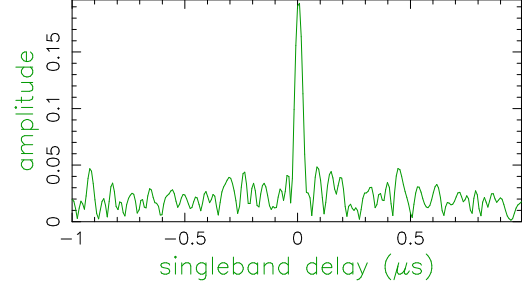


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	Phase	-0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	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	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00			Apriori delay (usec)			0.0000000000E+00			Resid mbdelay (usec)			0.00000E+00			+/-	1.8E-09	
Sband delay (usec)	0.0000000000E+00			Apriori clock (usec)			0.0000000E+00			Resid sbdelay (usec)			0.00000E+00			+/-	2.9E-08	
Phase delay (usec)	-1.64088945872E-19			Apriori clockrate (us/s)			0.0000000E+00			Resid phdelay (usec)			-1.64089E-19			+/-	6.2E-12	
Delay rate (us/s)	0.0000000000E+00			Apriori rate (us/s)			0.0000000000E+00			Resid rate (us/s)			0.00000E+00			+/-	2.2E-14	
Total phase (deg)	-0.0			Apriori accel (us/s/s)			0.0000000000E+00			Resid phase (deg)			-0.0			+/-	0.0	

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.998 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X64) 9999.998 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(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 9999.998 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BB..130G9L Output file: /Exps/c192b/v2/1234/No0205/BB.W.1.130G9L

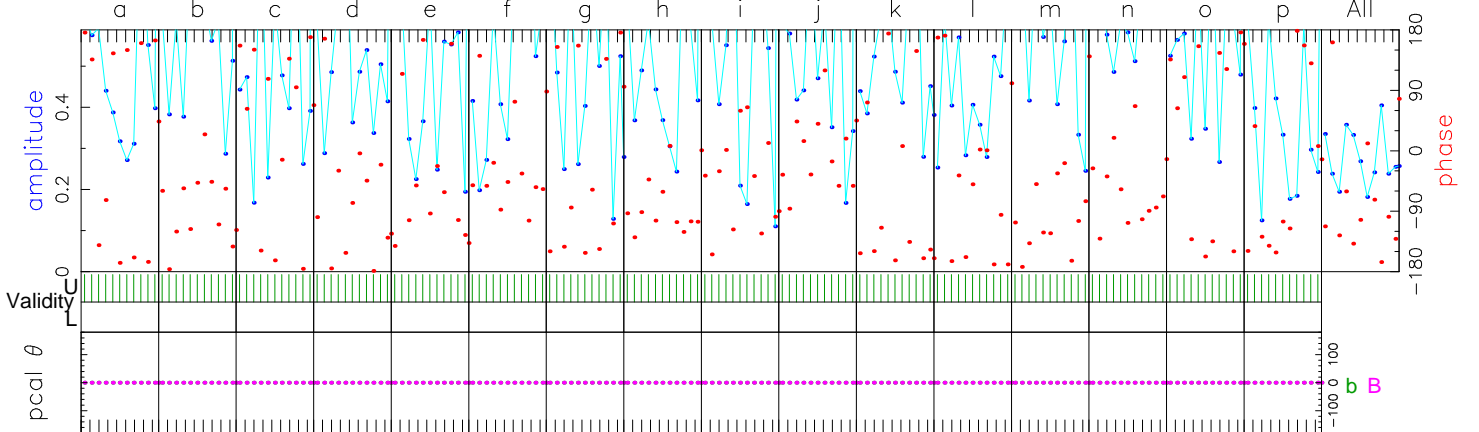


Fringe quality 9
SNR 11.7
Int time 478.589
Amp 0.196
Phase -116.2
PFD 4.3e-23
Delays (us)
SBD 0.004447
MBD -0.002554
Fringe rate (Hz)
0.012478
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



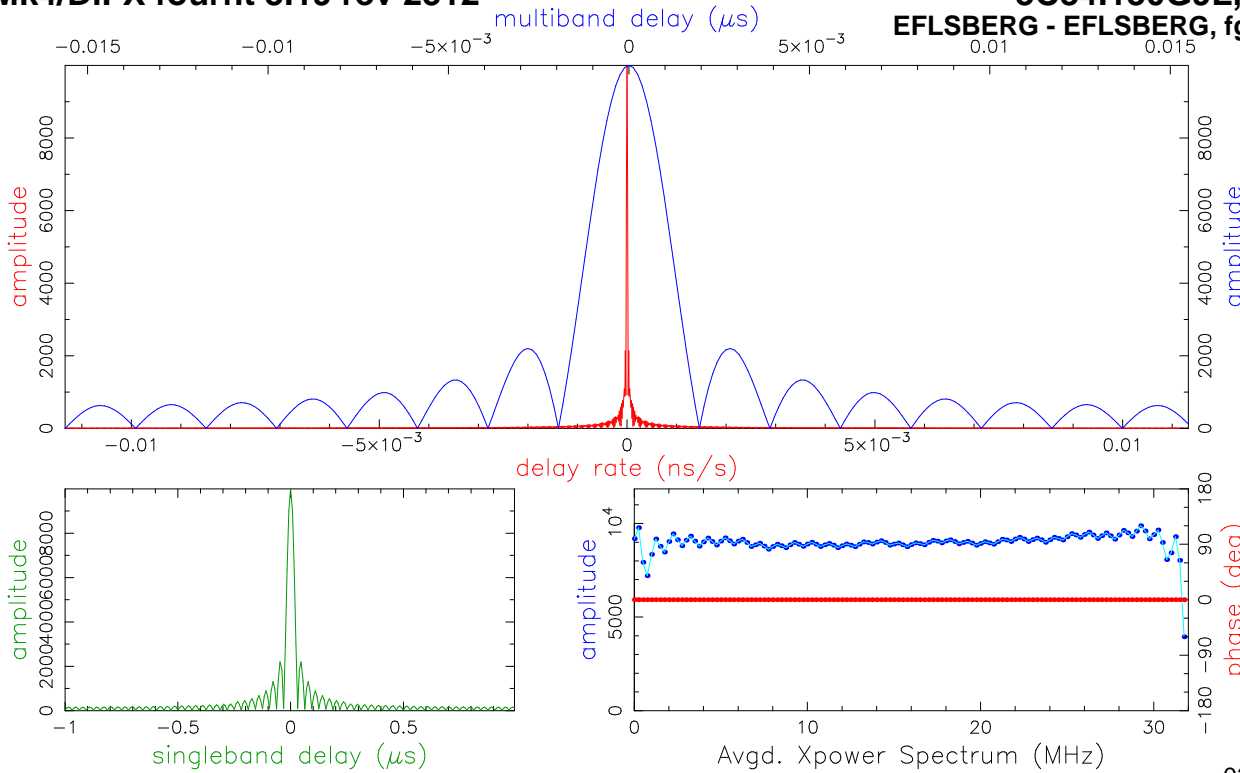
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112251
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)	1.24401010858E+04			Apriori delay (usec)			1.24401036393E+04			Resid mbdelay (usec)			-2.55356E-03			+/-	9.2E-05	
Sband delay (usec)	1.24401080863E+04			Apriori clock (usec)			-1.7435638E+01			Resid sbdelay (usec)			4.44700E-03			+/-	1.5E-03	
Phase delay (usec)	1.24401036356E+04			Apriori clockrate (us/s)			-4.2395080E-08			Resid phdelay (usec)			-3.74659E-06			+/-	3.1E-07	
Delay rate (us/s)	9.77466455667E-01			Apriori rate (us/s)			9.77466310812E-01			Resid rate (us/s)			1.44855E-07			+/-	1.1E-09	
Total phase (deg)	61.0			Apriori accel (us/s/s)			-6.82863149783E-05			Resid phase (deg)			-116.2			+/-	9.8	
ph/seg (deg)	RMS	Theor.	Amplitude			0.196 +/- 0.017			Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5						
amp/seg (%)	54.1	16.9	Search (2048X64)			0.190			Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)			-1.000	1.000		
ph/frq (deg)	57.9	19.5	Interp.			0.000			Bits/sample: 2x2			SampCntNorm: enabled			mb window (us)	-0.016	0.016	
amp/frq (%)	72.0	34.1	Inc. seg. avg.			0.266			Sample rate(MISamp/s): 64			dr window (ns/s)			-0.011	0.011		
			Inc. frq. avg.			0.297			Data rate(Mb/s): 2048			nlags: 128 t_cohere infinite			ion window (TEC)	0.00	0.00	

b: az 105.8 el 73.7 pa -58.9 B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) -7597.198 -4866.646 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/bB..130G9L Output file: /Exps/c192b/v2/1234/No0205/bB.W.14.130G9L

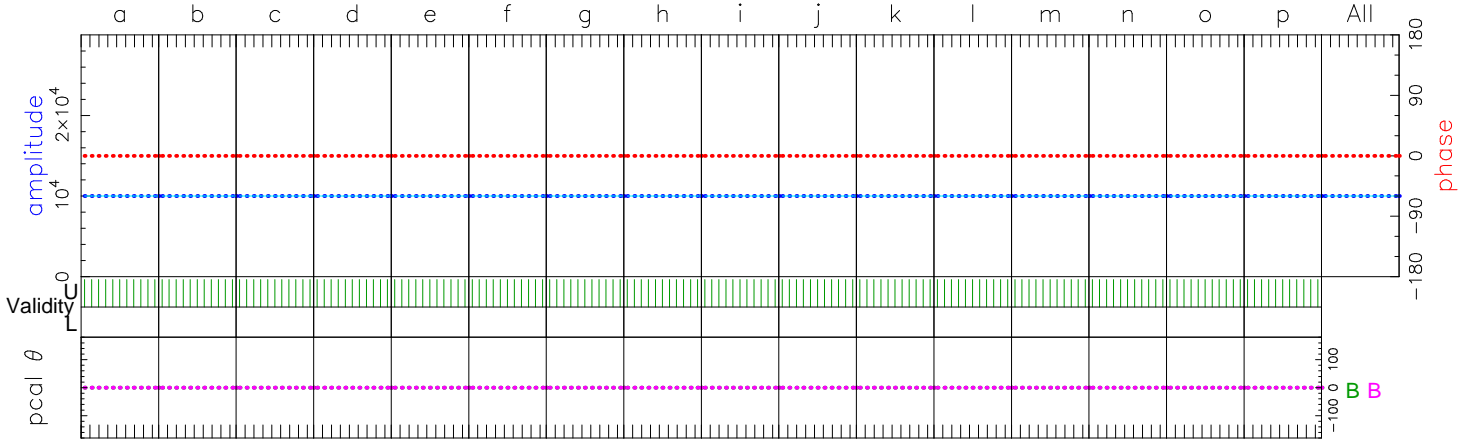


Fringe quality 9

SNR 598860.0
Int time 479.574
Amp 9999.998
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. c192b
Yr:day 16383
Start 2019:278
Stop 2019:278
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112253
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

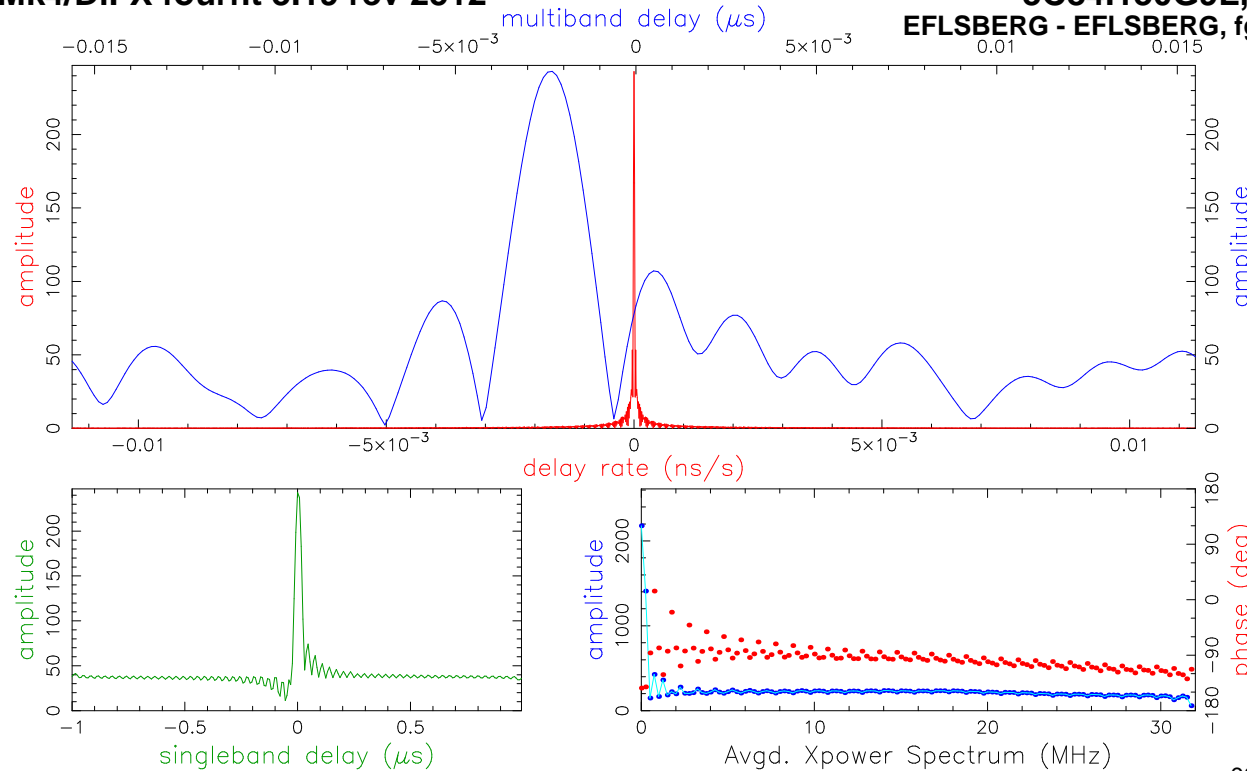


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All		
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR			Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR			Tracks	
Group delay (usec)(sbd)	0.0000000000E+00			Apriori delay (usec)			0.0000000000E+00			Resid mbdelay (usec)			0.00000E+00			+/- 1.8E-09				
Sband delay (usec)	0.0000000000E+00			Apriori clock (usec)			0.0000000E+00			Resid sbdelay (usec)			0.00000E+00			+/- 2.9E-08				
Phase delay (usec)	3.09359414573E-20			Apriori clockrate (us/s)			0.0000000E+00			Resid phdelay (usec)			3.09359E-20			+/- 6.2E-12				
Delay rate (us/s)	0.0000000000E+00			Apriori rate (us/s)			0.0000000000E+00			Resid rate (us/s)			0.00000E+00			+/- 2.2E-14				
Total phase (deg)	0.0			Apriori accel (us/s/s)			0.0000000000E+00			Resid phase (deg)			0.0			+/- 0.0				

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.998 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X64) 9999.998 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(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 9999.998 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BB..130G9L Output file: /Exps/c192b/v2/1234/No0205/BB.W.22.130G9L

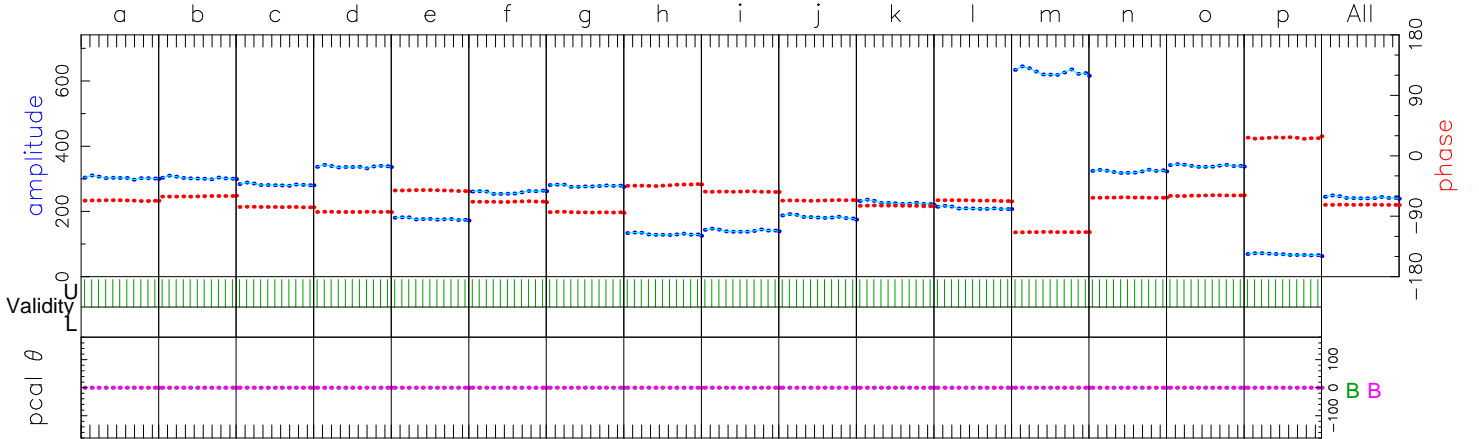


Fringe quality 5

SNR 14796.2
Int time 479.574
Amp 247.073
Phase -72.9
PFD 0.0e+00
Delays (us)
SBD 0.003103
MBD -0.002310
Fringe rate (Hz) -0.000003
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112258
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

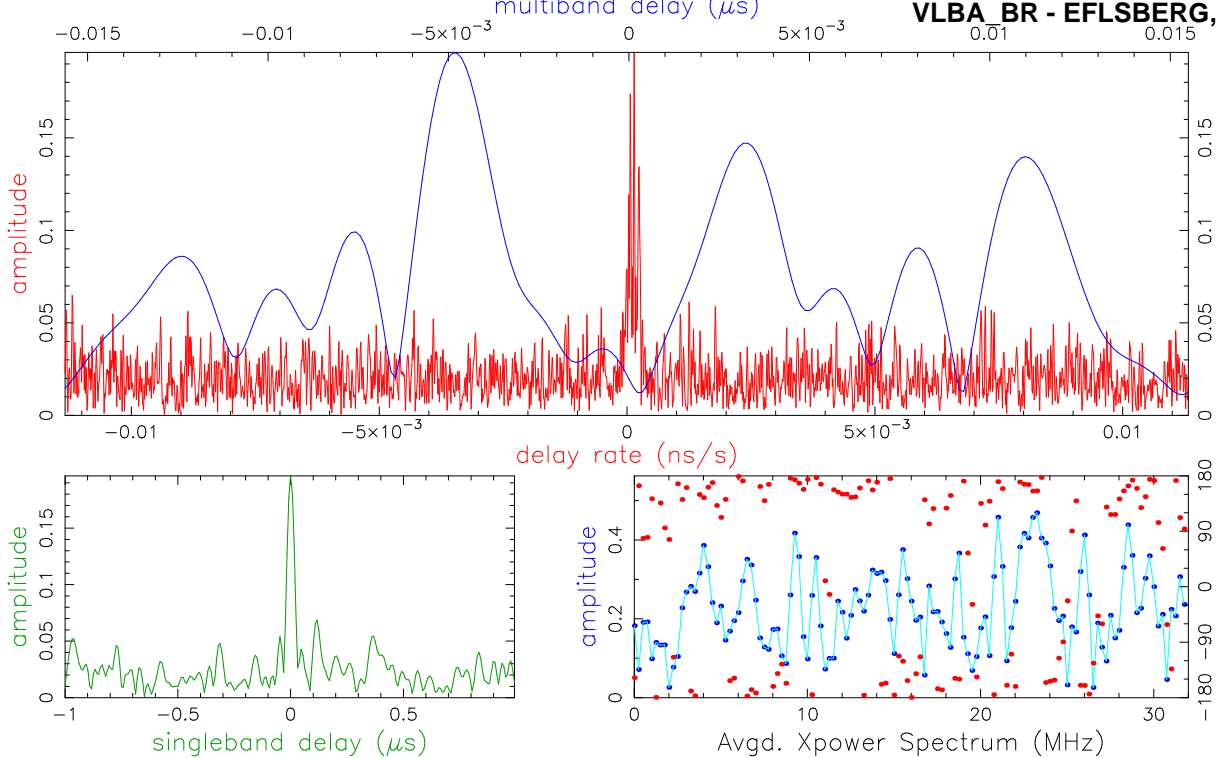


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-66.6	-60.3	-76.2	-83.5	-51.6	-68.3	-84.0	-43.8	-53.4	-66.4	-74.4	-66.5	-113.6	-62.2	-59.2	26.5	Phase	-72.9
	303.1	302.7	282.1	337.4	177.4	258.9	278.7	130.8	141.5	183.6	227.1	210.4	628.0	323.2	340.3	68.8	Ampl.	262.1
	129.3	128.7	128.4	129.1	128.3	128.7	129.0	129.6	128.5	128.3	128.7	129.2	130.2	128.3	127.7	131.8	Sbd box	129.4
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-2.31025000000E-03			Apriori delay (usec)			0.00000000000E+00			Resid mbdelay (usec)			-2.31025E-03			+/- 7.3E-08		
Sband delay (usec)	3.10350000000E-03			Apriori clock (usec)			0.0000000E+00			Resid sbdelay (usec)			3.10350E-03			+/- 1.2E-06		
Phase delay (usec)	-2.35067602048E-06			Apriori clockrate (us/s)			0.0000000E+00			Resid phdelay (usec)			-2.35068E-06			+/- 2.5E-10		
Delay rate (us/s)	-3.11765352617E-11			Apriori rate (us/s)			0.00000000000E+00			Resid rate (us/s)			-3.11765E-11			+/- 9.0E-13		
Total phase (deg)				-72.9			Apriori accel (us/s/s)			0.00000000000E+00			Resid phase (deg)			-72.9 +/- 0.0		

ph/seg (deg) 0.1 0.0 Theor. Amplitude 247.073 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.0 0.0 Search (2048X64) 242.517 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.9 0.0 Inc. seg. avg. 242.894 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 262.116 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

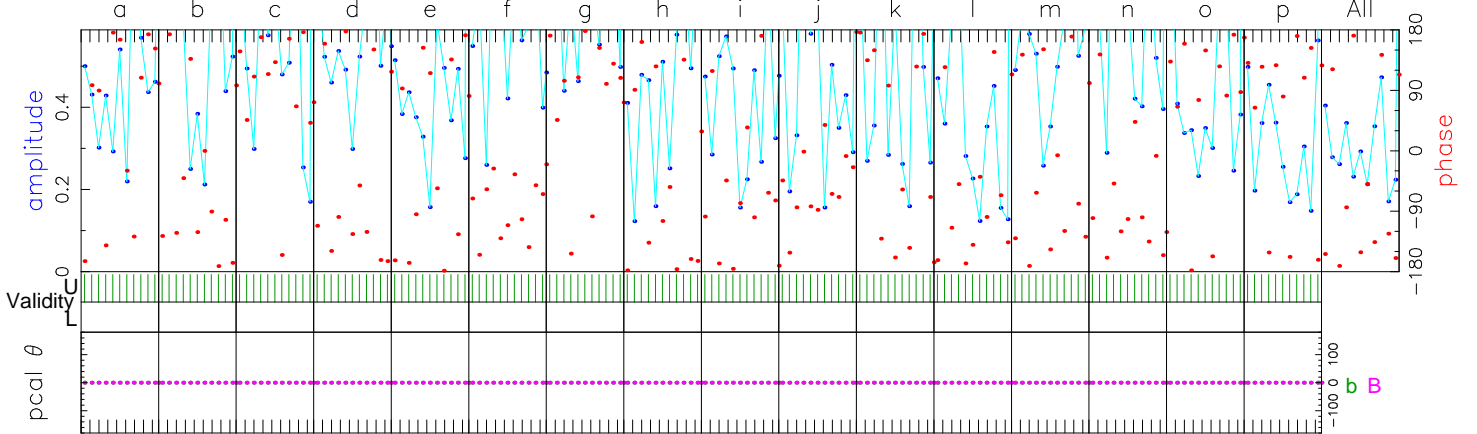
B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BB..130G9L Output file: /Exps/c192b/v2/1234/No0205/BB.W.40.130G9L



Fringe quality 9
SNR 11.7
Int time 478.589
Amp 0.196
Phase -159.1
PFD 4.0e-23
Delays (us)
SBD 0.000221
MBD -0.004827
Fringe rate (Hz) 0.012521
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112258
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



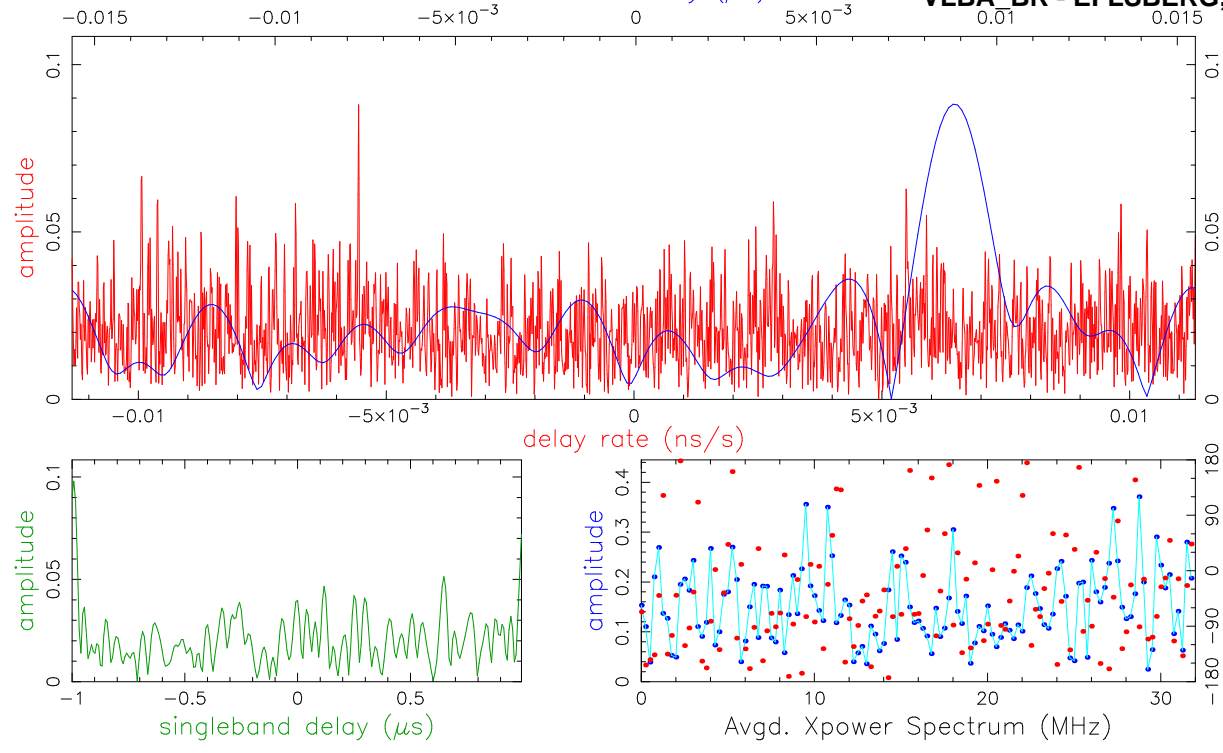
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	171.2	-131.3	127.2	-150.1	-167.2	-83.4	141.6	-172.2	-102.8	-48.9	178.6	-127.8	-146.3	-104.7	125.7	147.9	Phase	-159.1
	0.3	0.4	0.4	0.4	0.2	0.4	0.4	0.3	0.2	0.4	0.3	0.2	0.3	0.3	0.4	0.2	Ampl.	0.3
	127.9	129.5	129.8	129.5	128.7	129.1	128.8	129.4	127.6	128.8	128.4	127.6	129.0	128.8	129.5	128.6	Sbd box	129.0
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

Group delay (usec)(sbd) 1.24400988123E+04 Apriori delay (usec) 1.24401036393E+04 Resid mbdelay (usec) -4.82706E-03 +/- 9.2E-05
Sband delay (usec) 1.24401038603E+04 Apriori clock (usec) -1.7435638E+01 Resid sbdelay (usec) 2.21000E-04 +/- 1.5E-03
Phase delay (usec) 1.24401036342E+04 Apriori clockrate (us/s) -4.2395080E-08 Resid phdelay (usec) -5.13046E-06 +/- 3.1E-07
Delay rate (us/s) 9.77466456163E-01 Apriori rate (us/s) 9.77466310812E-01 Resid rate (us/s) 1.45351E-07 +/- 1.1E-09
Total phase (deg) 18.1 Apriori accel (us/s/s) -6.82863149783E-05 Resid phase (deg) -159.1 +/- 9.8

ph/seg (deg) RMS Theor. Amplitude 0.196 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 52.6 16.9 Search (2048X64) 0.194 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 71.0 29.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 56.7 19.5 Inc. seg. avg. 0.286 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 75.2 34.1 Inc. frq. avg. 0.305 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

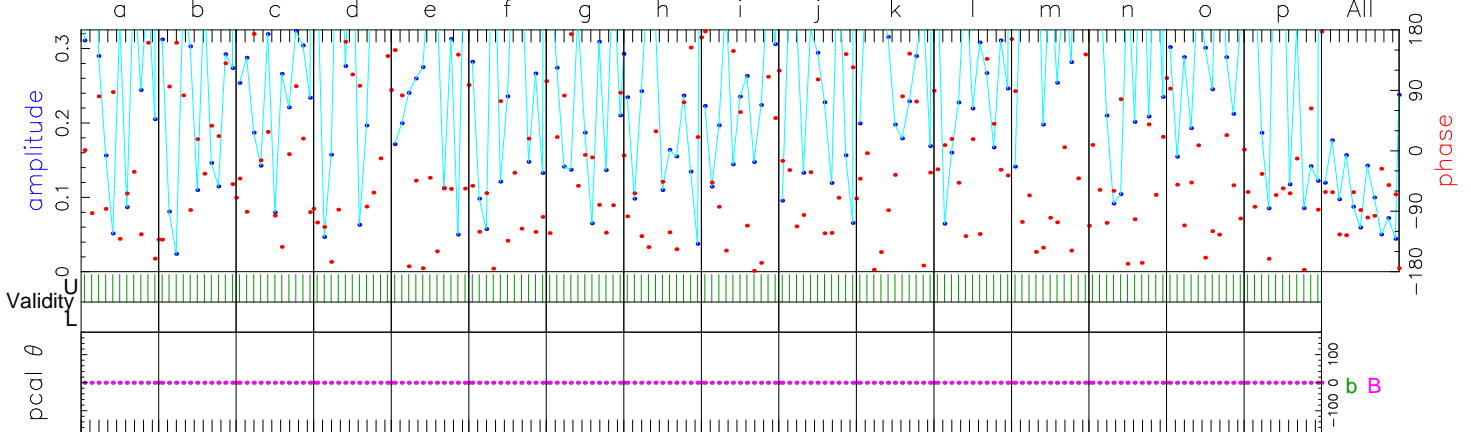
b: az 105.8 el 73.7 pa -58.9 B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) -7597.198 -4866.646 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/bB..130G9L Output file: /Exps/c192b/v2/1234/No0205/bB.W.41.130G9L

multiband delay (μ s)



Fringe quality 0
SNR 5.9
Int time 478.589
Amp 0.108
Phase -83.5
PFD 6.8e-01
Delays (us)
SBD -0.992464
MBD 0.008754
Fringe rate (Hz)
-0.479061
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112303
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All		
	-100.8	-19.5	-32.6	-98.0	-89.4	-103.6	-66.8	-119.2	172.0	-75.7	-129.6	-42.3	-102.8	-75.2	-84.1	-59.9		Phase	-83.5	
	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2		Ampl.	0.1	
	172.0	66.8	82.8	62.1	95.3	105.8	85.6	57.2	158.0	107.9	38.7	197.0	200.8	29.1	74.6	1.8		Sbd box	2.0	
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used		
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000				
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks		
																		Chan ids		
																		Tracks		
Group delay (usec)(sbd)		1.24391123938E+04							1.24401036393E+04									Resid mbdelay (usec)	8.75447E-03	+/- 1.8E-04
Sband delay (usec)		1.24391111758E+04							-1.7435638E+01									Resid sbdelay (usec)	-9.92464E-01	+/- 2.9E-03
Phase delay (usec)		1.24401036366E+04							-4.2395080E-08									Resid phdelay (usec)	-2.69374E-06	+/- 6.3E-07
Delay rate (us/s)		9.77460749392E-01							9.77466310812E-01									Resid rate (us/s)	-5.56142E-06	+/- 2.3E-09
Total phase (deg)				93.6					-6.82863149783E-05									Resid phase (deg)	-83.5	+/- 19.5

ph/seg (deg) 30.3 33.9
amp/seg (%) 43.4 59.1
ph/frq (deg) 42.3 39.1
amp/frq (%) 44.2 68.2

RMS Theor. Amplitude 0.108 +/- 0.018
Search (2048X64) 0.093
Interp. 0.000
Inc. seg. avg. 0.095
Inc. frq. avg. 0.093

Group delay (usec)(sbd) 1.24391123938E+04
Sband delay (usec) 1.24391111758E+04
Phase delay (usec) 1.24401036366E+04
Delay rate (us/s) 9.77460749392E-01
Total phase (deg) 93.6

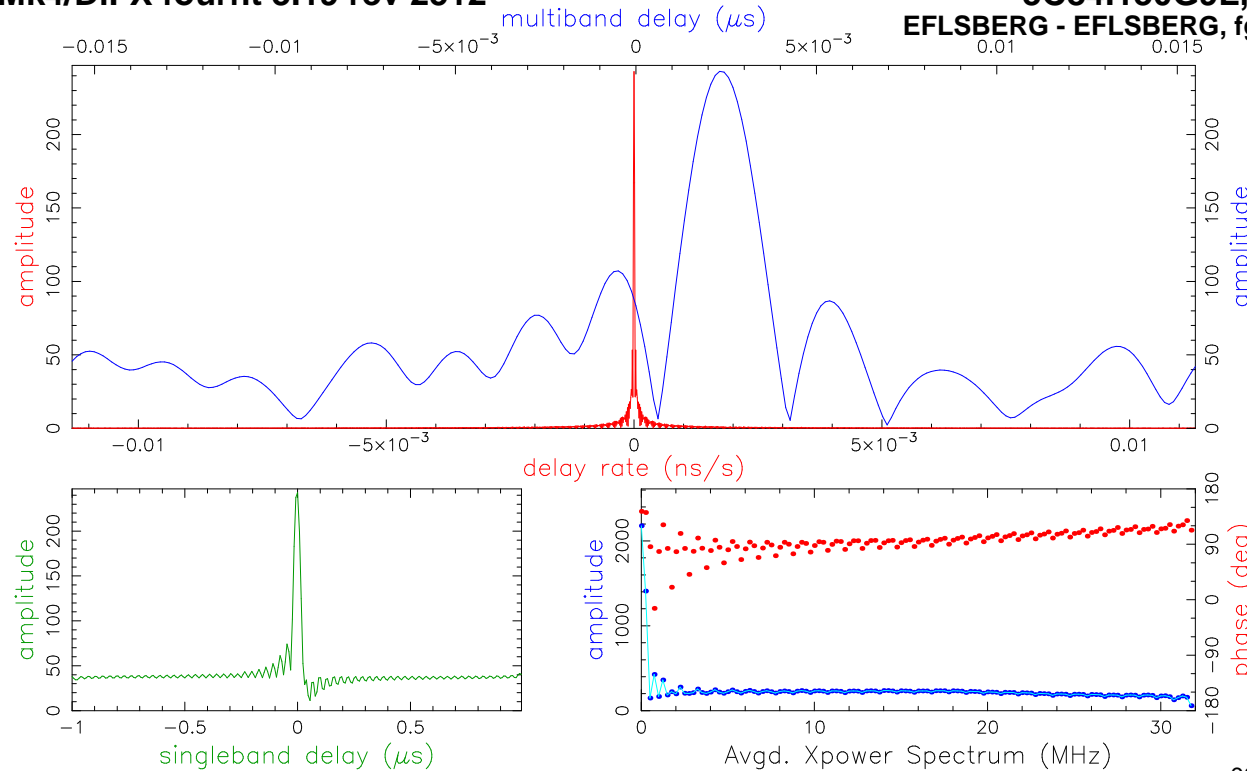
Apriori delay (usec) 1.24401036393E+04
Apriori clock (usec) -1.7435638E+01
Apriori clockrate (us/s) -4.2395080E-08
Apriori rate (us/s) 9.77466310812E-01
Apriori accel (us/s/s) -6.82863149783E-05

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(MISamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 105.8 el 73.7 pa -58.9 B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) -7597.198 -4866.646 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/bB..130G9L Output file: /Exps/c192b/v2/1234/No0205/bB.W.57.130G9L

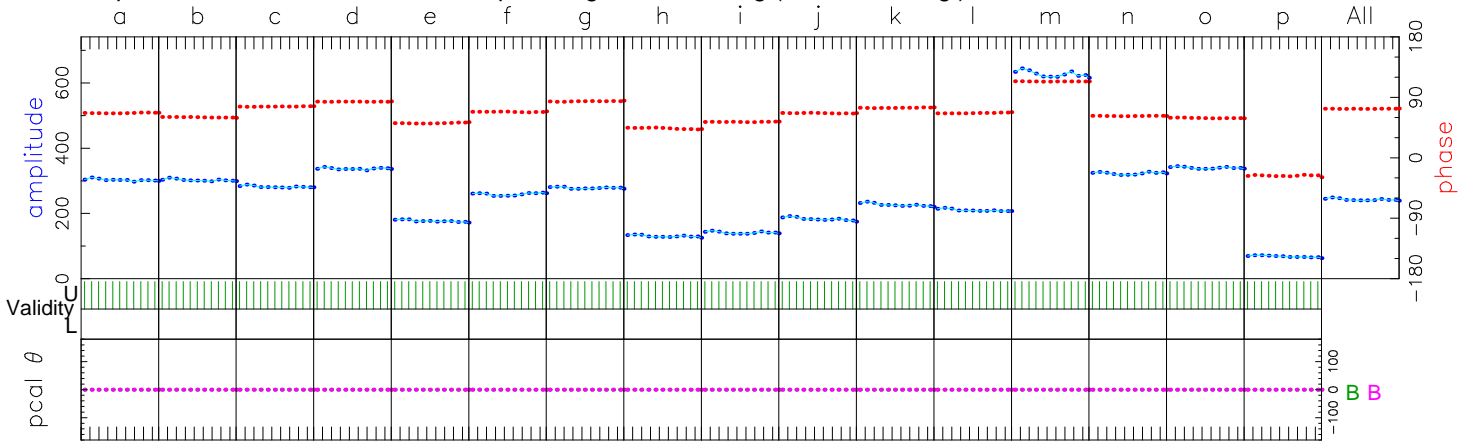


Fringe quality 5

SNR 14796.2
Int time 479.574
Amp 247.073
Phase 72.9
PFD 0.0e+00
Delays (us)
SBD -0.003103
MBD 0.002310
Fringe rate (Hz) 0.000003
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112304
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

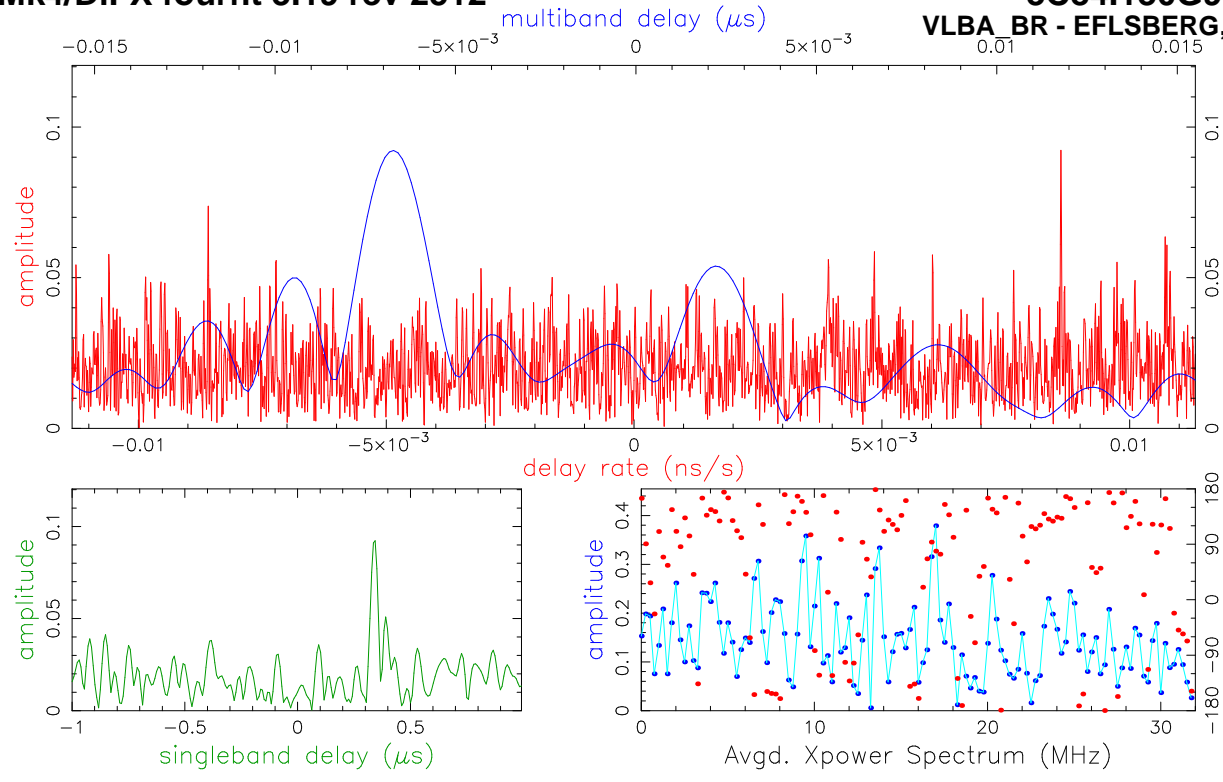


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	66.6	60.3	76.2	83.5	51.6	68.3	84.0	43.8	53.4	66.4	74.4	66.5	113.6	62.2	59.2	-26.5	Phase	72.9
	303.1	302.7	282.1	337.4	177.4	258.9	278.7	130.8	141.5	183.6	227.1	210.4	628.0	323.2	340.3	68.8	Ampl.	262.1
	128.7	129.3	129.6	128.9	129.7	129.3	129.0	128.4	129.5	129.7	129.3	128.8	127.8	129.7	130.3	126.2	Sbd box	128.6
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

Group delay (usec)(sbd) 2.31025000000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 2.31025E-03 +/- 7.3E-08
 Sband delay (usec) -3.10350000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -3.10350E-03 +/- 1.2E-06
 Phase delay (usec) 2.35067602058E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.35068E-06 +/- 2.5E-10
 Delay rate (us/s) 3.11765352617E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 3.11765E-11 +/- 9.0E-13
 Total phase (deg) 72.9 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 72.9 +/- 0.0

RMS Theor. Amplitude 247.073 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (2048X64) 242.517 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 31.7 0.0 Inc. seg. avg. 242.894 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 49.9 0.0 Inc. frq. avg. 262.116 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BB..130G9L Output file: /Exps/c192b/v2/1234/No0205/BB.W.62.130G9L

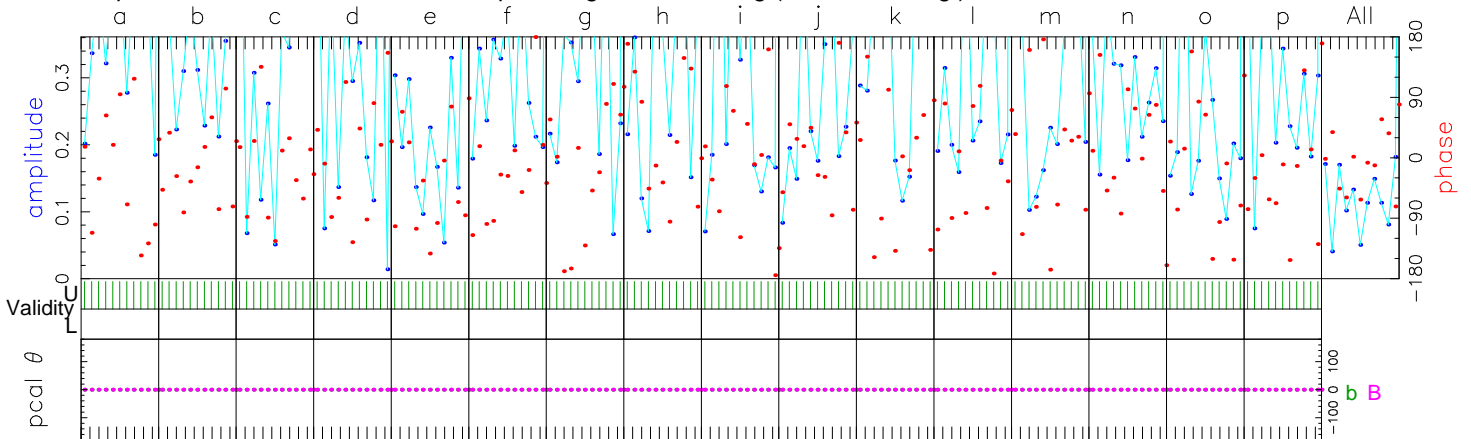


Fringe quality 0

SNR 5.6
Int time 478.589
Amp 0.120
Phase -16.6
PFD 9.9e-01
Delays (us)
SBD 0.340427
MBD -0.006725
Fringe rate (Hz) 0.742863
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112308
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

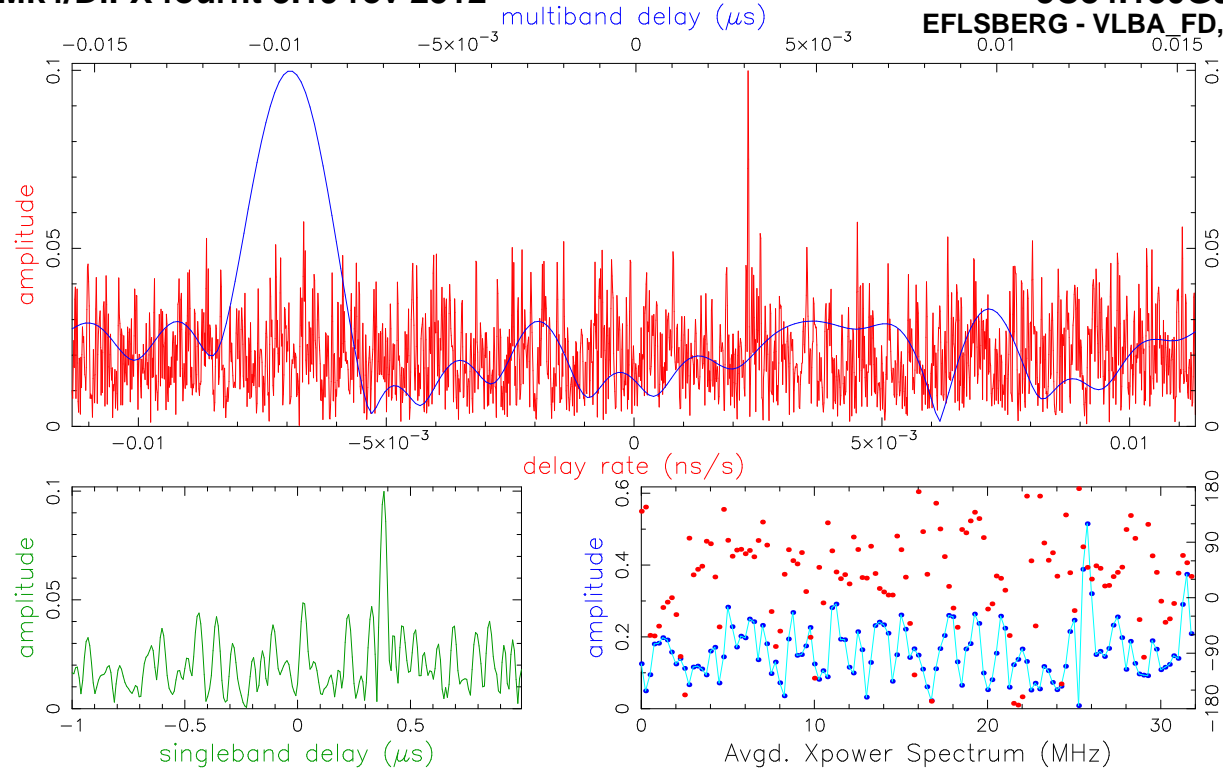


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-29.8	-18.5	-10.9	17.4	-66.7	-40.2	43.3	4.7	-7.2	-14.6	84.7	-69.6	11.6	7.7	8.0	-53.6	Phase	-16.6
	0.0	0.3	0.3	0.1	0.1	0.2	0.0	0.0	0.1	0.2	0.0	0.1	0.2	0.2	0.1	0.2	Ampl.	0.1
	214.3	174.2	172.6	26.4	133.4	139.0	67.5	24.0	104.9	6.5	66.4	219.2	81.3	170.6	242.0	14.4	Sbd box	172.6
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

Group delay (usec)(sbd) 1.24404406642E+04 Apriori delay (usec) 1.24401036393E+04 Resid mbdelay (usec) -6.72512E-03 +/- 1.9E-04
 Sband delay (usec) 1.24404440658E+04 Apriori clock (usec) -1.7435638E+01 Resid sbdelay (usec) 3.40427E-01 +/- 3.1E-03
 Phase delay (usec) 1.24401036388E+04 Apriori clockrate (us/s) -4.2395080E-08 Resid phdelay (usec) -5.36153E-07 +/- 6.6E-07
 Delay rate (us/s) 9.77474934717E-01 Apriori rate (us/s) 9.77466310812E-01 Resid rate (us/s) 8.62391E-06 +/- 2.4E-09
 Total phase (deg) 160.6 Apriori accel (us/s/s) -6.82863149783E-05 Resid phase (deg) -16.6 +/- 20.4

ph/seg (deg) RMS Theor. Amplitude 0.120 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.2 61.8 Search (2048X64) 0.091 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.3 40.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 73.1 71.3 Inc. seg. avg. 0.129 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 105.8 el 73.7 pa -58.9 B: az 308.6 el 22.7 pa 41.3 u,v (fr/asec) -7597.198 -4866.646 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/bB..130G9L Output file: /Exps/c192b/v2/1234/No0205/bB.W.74.130G9L

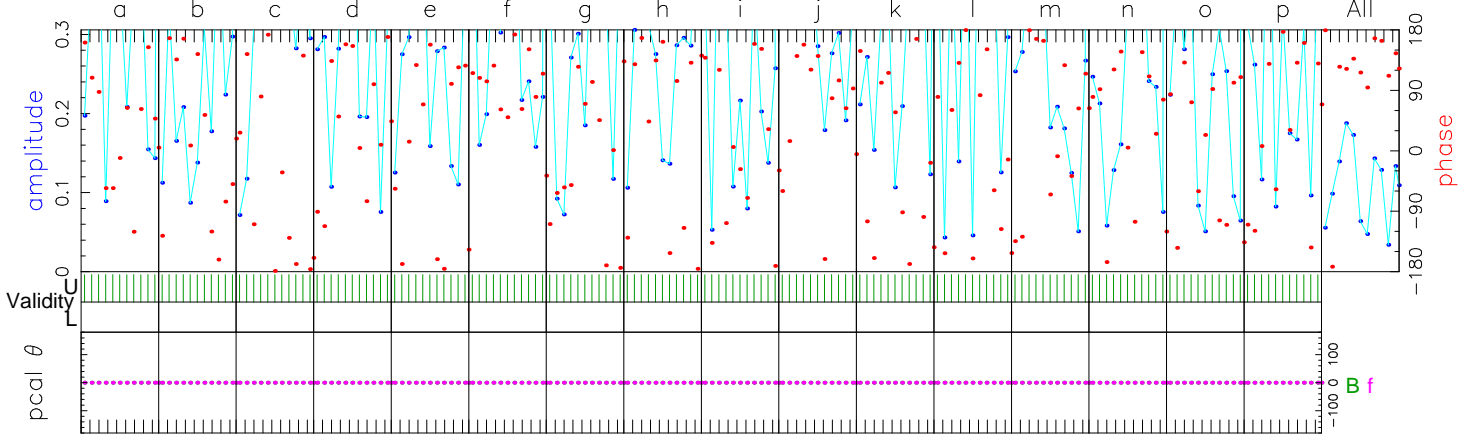


Fringe quality 0

SNR 6.0
Int time 477.195
Amp 0.102
Phase 143.0
PFD 4.3e-01
Delays (us)
SBD 0.381287
MBD -0.009617
Fringe rate (Hz) 0.198952
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112254
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

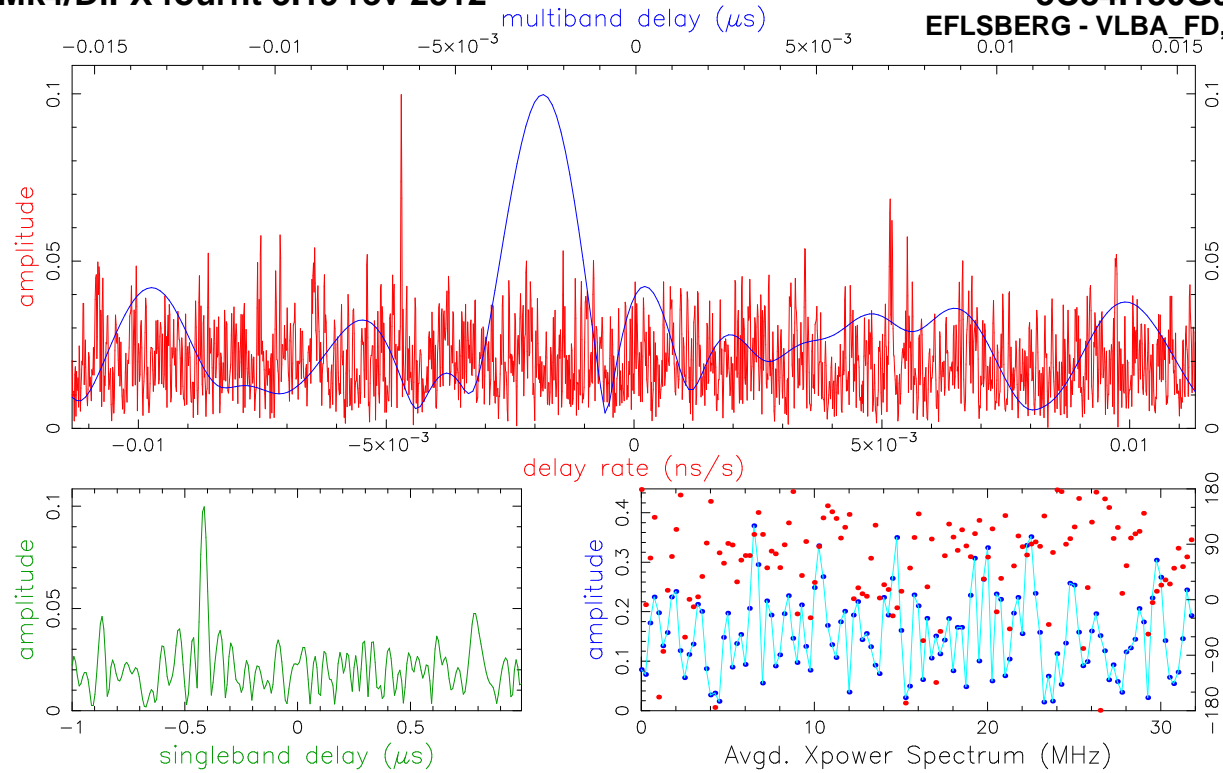


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
62.5	-163.3	-178.7	156.2	133.6	107.7	148.4	152.9	160.1	111.7	-174.4	103.7	176.8	107.3	147.3	159.7	159.7	Phase	143.0				
0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1				
221.4	5.3	215.0	48.2	212.5	177.8	149.3	82.7	8.5	237.2	103.0	52.7	46.9	98.5	8.5	118.9	118.9	Sbd box	177.8				
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase					
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
Group delay (usec)(sbd)		-1.28117499853E+04															Apriori delay (usec)	-1.28121466181E+04	Resid mbdelay (usec)	-9.61720E-03	+/-	1.8E-04
Sband delay (usec)		-1.28117653316E+04															Apriori clock (usec)	1.6347164E+01	Resid sbdelay (usec)	3.81287E-01	+/-	2.9E-03
Phase delay (usec)		-1.28121466135E+04															Apriori clockrate (us/s)	-1.0905050E-07	Resid phdelay (usec)	4.61091E-06	+/-	6.2E-07
Delay rate (us/s)		-7.87315506608E-01															Apriori rate (us/s)	-7.87317816241E-01	Resid rate (us/s)	2.30963E-06	+/-	2.2E-09
Total phase (deg)																	Apriori accel (us/s/s)	8.78556074820E-05	Resid phase (deg)	143.0	+/-	19.1

ph/seg (deg) 28.9 33.2 Amplitude 0.102 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 51.0 57.9 Search (2048X64) 0.094 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.6 38.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.6 66.8 Inc. seg. avg. 0.096 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.099 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 f: az 20.4 el 78.2 pa -154.6 u,v (fr/asec) 6171.643 7801.555 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bf..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bf.W.26.130G9L

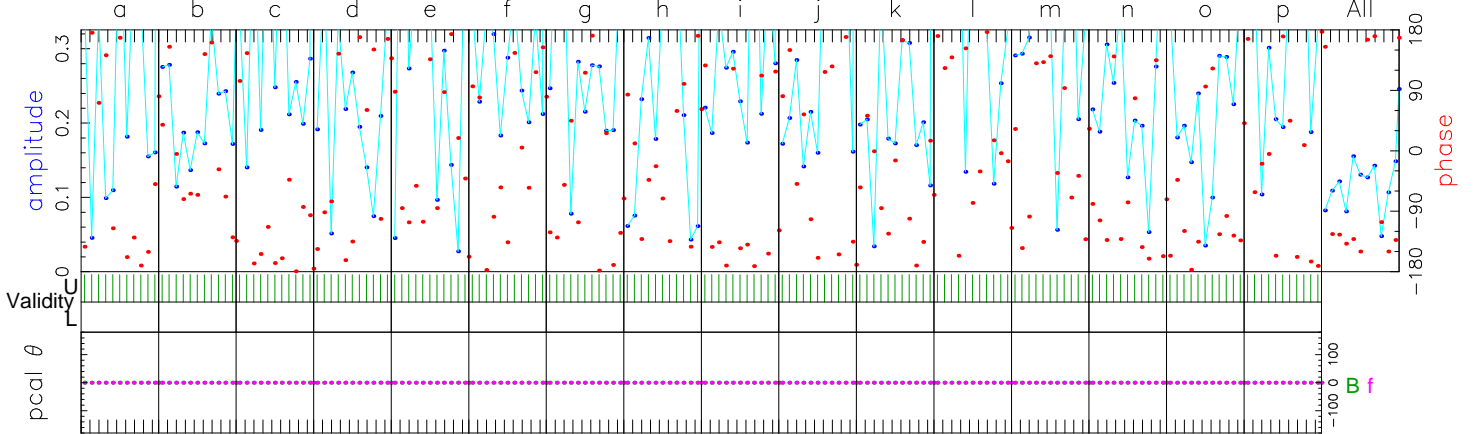


Fringe quality 0

SNR 6.0
Int time 477.195
Amp 0.109
Phase -150.3
PFD 3.4e-01
Delays (us)
SBD -0.416874
MBD -0.002586
Fringe rate (Hz)
-0.405372
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112259
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-165.4	-90.5	-149.5	-159.7	-85.7	153.1	-130.3	-62.9	-177.4	159.0	-99.6	-153.5	179.8	-150.4	-130.0	-131.6	Phase	-150.3				
	0.2	0.0	0.2	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.0	Ampl.	0.1				
	92.0	166.0	75.7	203.9	125.0	19.8	180.5	227.6	75.4	194.7	110.6	69.7	101.5	77.9	61.6	38.2	Sbd box	75.6				
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase					
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-1.28125554546E+04														Apriori delay (usec)	-1.28121466181E+04	Resid mbdelay (usec)	-2.58647E-03	+/-	1.8E-04
Sband delay (usec)			-1.28125634921E+04														Apriori clock (usec)	1.6347164E+01	Resid sbdelay (usec)	-4.16874E-01	+/-	2.9E-03
Phase delay (usec)			-1.28121466230E+04														Apriori clockrate (us/s)	-1.0905050E-07	Resid phdelay (usec)	-4.84764E-06	+/-	6.1E-07
Delay rate (us/s)			-7.8732252210E-01														Apriori rate (us/s)	-7.87317816241E-01	Resid rate (us/s)	-4.70597E-06	+/-	2.2E-09
Total phase (deg)																	Apriori accel (us/s/s)	8.78556074820E-05	Resid phase (deg)	-150.3	+/-	19.0

ph/seg (deg) 31.2 32.9
amp/seg (%) 34.0 57.4
ph/frq (deg) 43.8 38.0
amp/frq (%) 62.3 66.3

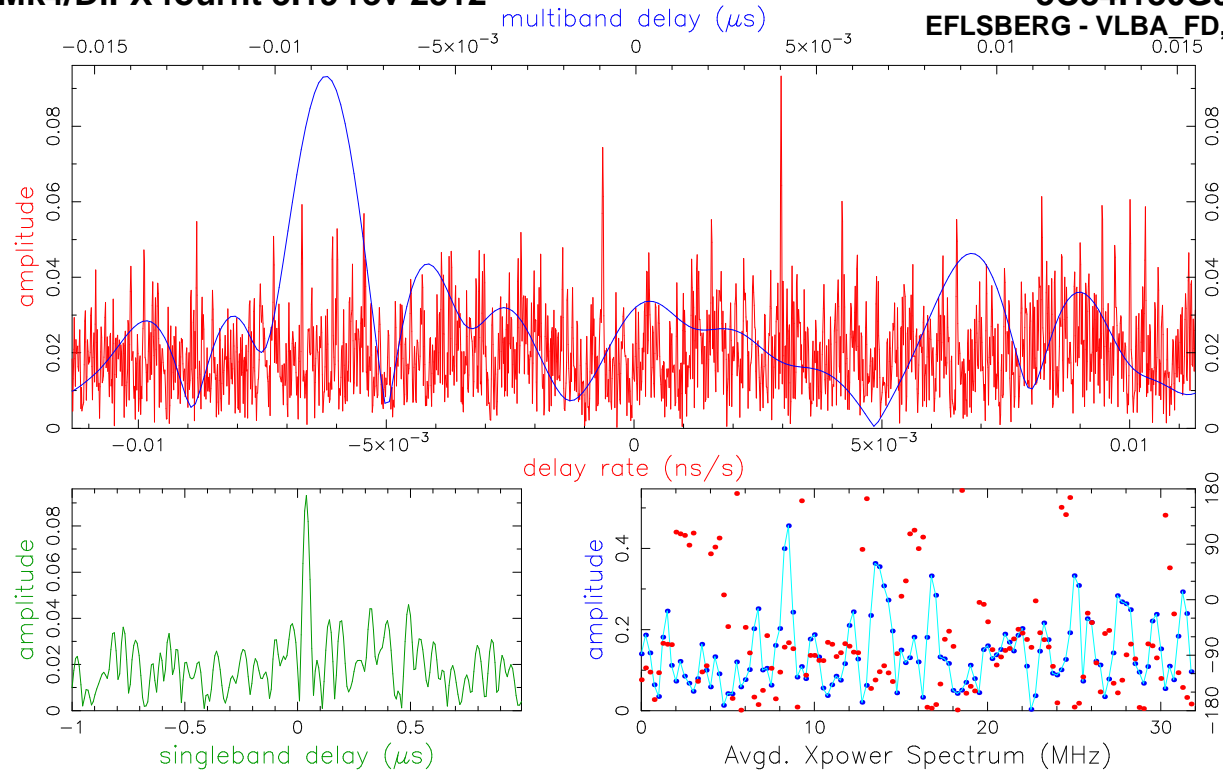
RMS Theor. Amplitude 0.109 +/- 0.018
Search (2048X64) 0.098
Interp. 0.000
Inc. seg. avg. 0.105
Inc. frq. avg. 0.106

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(MISamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 f: az 20.4 el 78.2 pa -154.6 u,v (fr/asec) 6171.643 7801.555 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bf..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bf.W.46.130G9L

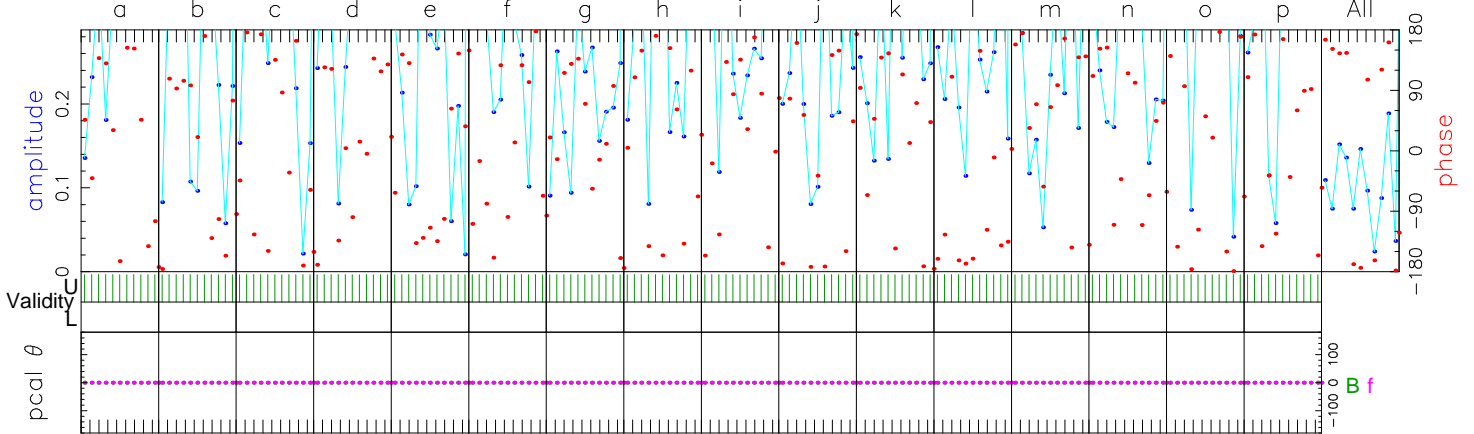


Fringe quality 0

SNR 5.6
Int time 477.196
Amp 0.096
Phase 156.3
PFD 1.0e+00
Delays (us)
SBD 0.038027
MBD -0.008588
Fringe rate (Hz) 0.256403
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112305
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

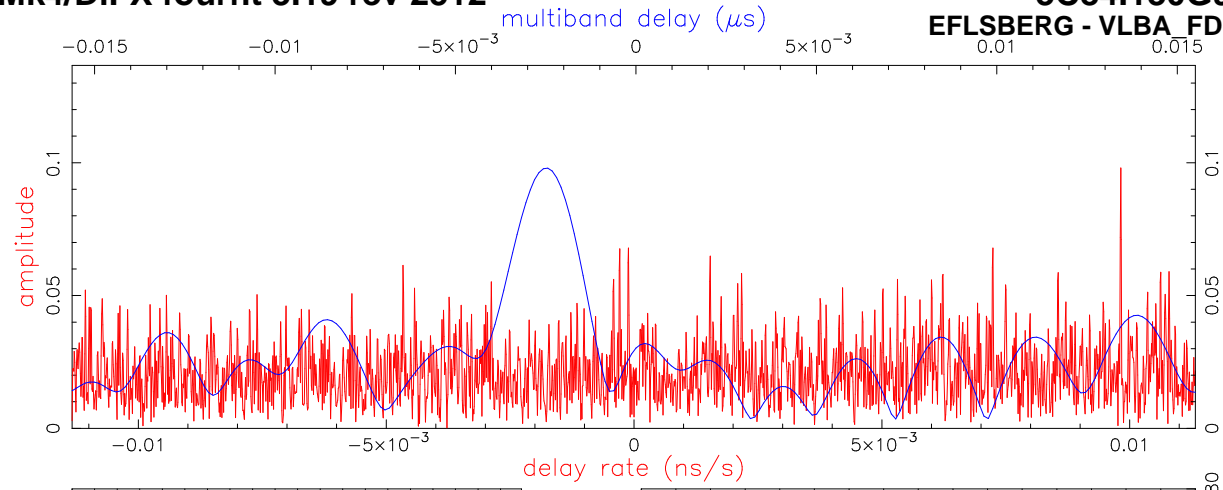


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	
Group delay (usec)(sbd)			-1.28121239565E+04																
Sband delay (usec)			-1.28121085916E+04																
Phase delay (usec)			-1.28121466131E+04																
Delay rate (us/s)			-7.87314839656E-01																
Total phase (deg)					-91.0														
Apriori delay (usec)																			
Apriori clock (usec)																			
Apriori clockrate (us/s)																			
Apriori rate (us/s)																			
Apriori accel (us/s/s)																			
Resid mbdelay (usec)																			
Resid sbdelay (usec)																			
Resid phdelay (usec)																			
Resid rate (us/s)																			
Resid phase (deg)																			
PCal mode: MANUAL, MANUAL																			
PCal rate: 0.000E+00, 0.000E+00 (us/s)																			
Bits/sample: 2x2																			
Sample rate(MISamp/s): 64																			
Data rate(Mb/s): 2048																			
nlags: 128																			
t_cohere infinite																			
sb window (us)																			
mb window (us)																			
dr window (ns/s)																			
ion window (TEC)																			

ph/seg (deg) 28.1 35.6 Search (2048X64) 0.096 +/- 0.017 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 53.2 62.1 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 49.3 41.1 Inc. seg. avg. 0.089 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 51.9 71.7 Inc. frq. avg. 0.100 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 308.6 el 22.7 pa 41.3 f: az 20.4 el 78.2 pa -154.6 u,v (fr/asec) 6171.643 7801.555 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bf..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bf.W.66.130G9L

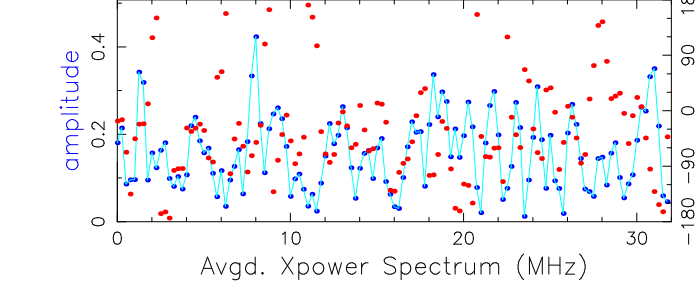
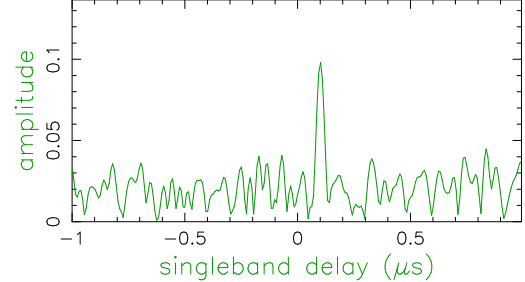
Mk4/DiFX fourfit 3.19 rev 2512

3C84.130G9L, No0205, Bf
EFLSBERG - VLBA FD, fgroup W, pol LL



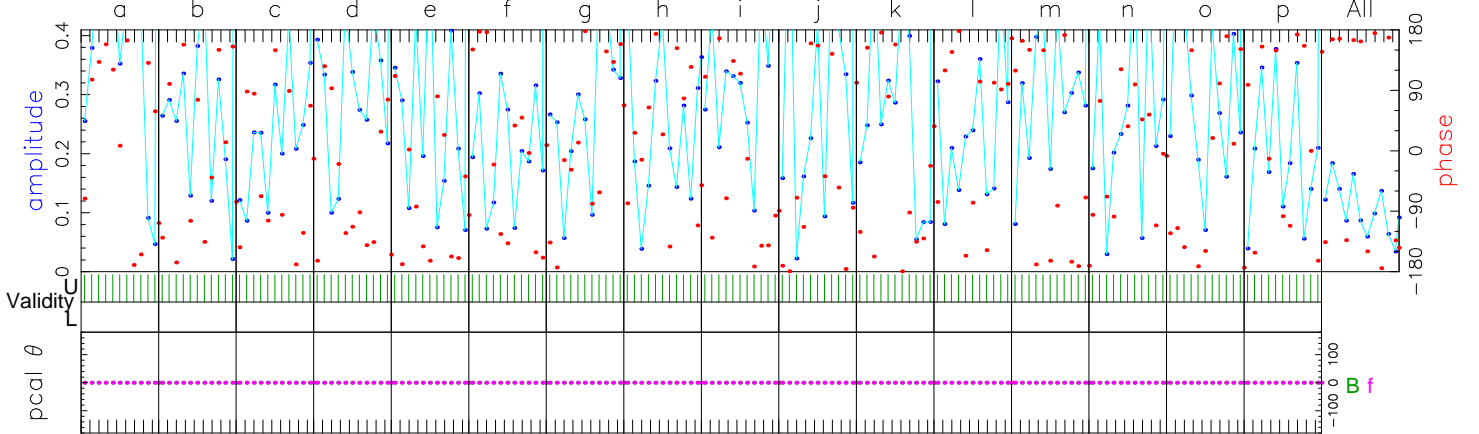
Fringe quality 0

SNR 5.9
Int time 477.196
Amp 0.137
Phase -177.4
PFD 6.9e-01
Delays (us)
SBD 0.100696
MBD -0.002499
Fringe rate (Hz)
0.847145
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112250
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

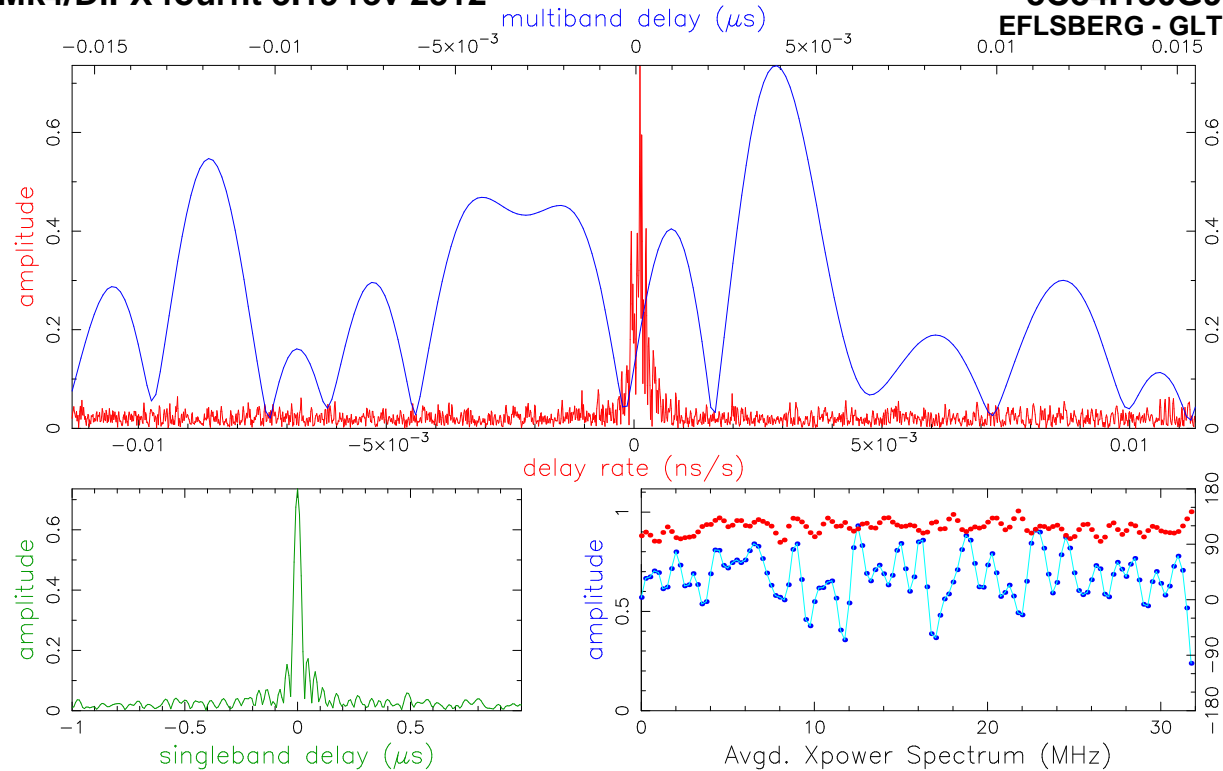
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
U/L	153.3	171.9	139.4	-140.1	-154.0	-153.4	-174.1	-57.3	-142.4	-176.9	-169.4	134.8	-168.6	59.5	-161.4	-179.7	Phase	-177.4				
B	0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.3	0.2	0.1	0.2	Ampl.	0.1				
f	140.5	219.7	27.9	222.2	131.5	93.8	165.3	11.1	44.4	69.6	84.0	164.8	254.9	107.9	137.8	217.6	Sbd box	141.9				
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000				
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000				
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	1000				
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	1000				
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000				
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	1000				
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	1000				
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	1000				
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	1000				
Group delay (usec)(sbd)				-1.28120553676E+04													Apriori delay (usec)	-1.28121466181E+04	Resid mbdelay (usec)	-2.49949E-03	+/-	1.8E-04
Sband delay (usec)				-1.28120459216E+04													Apriori clock (usec)	1.6347164E+01	Resid sbdelay (usec)	1.00696E-01	+/-	2.9E-03
Phase delay (usec)				-1.28121466239E+04													Apriori clockrate (us/s)	-1.0905050E-07	Resid phdelay (usec)	-5.72097E-06	+/-	6.3E-07
Delay rate (us/s)				-7.87307981724E-01													Apriori rate (us/s)	-7.87317816241E-01	Resid rate (us/s)	9.83452E-06	+/-	2.3E-09
Total phase (deg)				-64.7													Apriori accel (us/s/s)	8.78556074820E-05	Resid phase (deg)	-177.4	+/-	19.6

ph/seg (deg) 26.8 33.9 Search (2048X64) 0.094 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 46.4 59.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 52.7 39.1 Inc. seg. avg. 0.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 59.8 68.3 Inc. frq. avg. 0.135 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 308.6 el 22.7 pa 41.3 f: az 20.4 el 78.2 pa -154.6 u,v (fr/asec) 6171.643 7801.555 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bf..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bf.W.9.130G9L

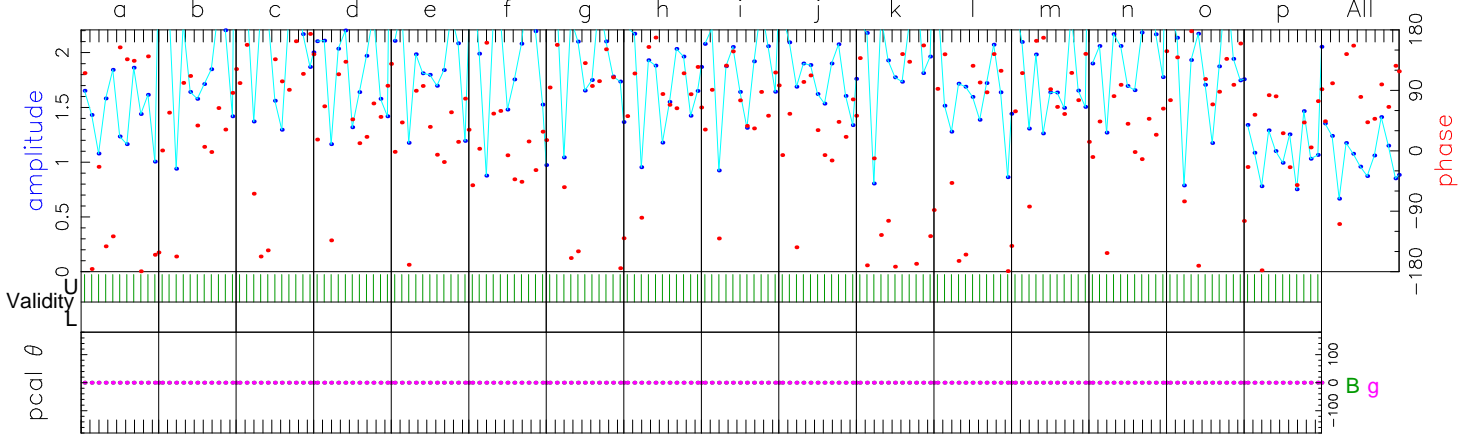


Fringe quality 1

SNR 44.1
Int time 479.367
Amp 0.736
Phase 90.8
PFD 0.0e+00
Delays (us)
SBD -0.000677
MBD 0.003873
Fringe rate (Hz) 0.010241
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

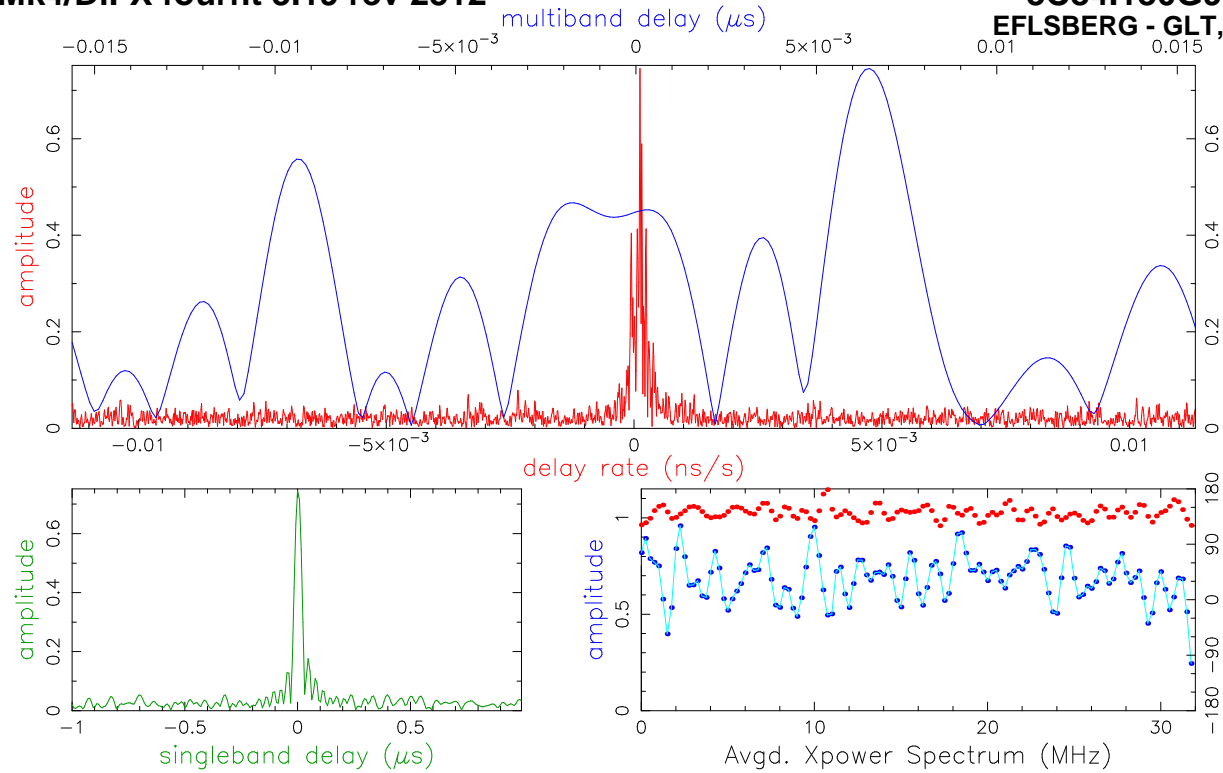
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:08:062909
2020:08:112252
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
170.4	49.7	150.0	64.7	39.5	-1.6	144.0	104.3	82.0	39.4	-173.1	134.4	102.9	39.5	126.9	33.2	33.2	Phase	90.8
1.0	1.3	1.4	1.2	1.3	1.4	1.3	1.2	1.3	1.1	1.4	1.1	1.2	1.4	1.3	0.7	0.7	Ampl.	1.2
128.1	128.4	128.6	129.0	129.0	129.0	129.1	128.9	129.0	129.2	129.0	128.9	128.5	128.8	128.2	128.2	128.2	Sbd box	128.9
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
Group delay (usec)(sbd)	-8.86808547218E+03			Apriori delay (usec)			-8.86808934485E+03			Resid mbdelay (usec)			3.87267E-03			+/- 2.4E-05		
Sband delay (usec)	-8.86809002135E+03			Apriori clock (usec)			1.5508819E+01			Resid sbdelay (usec)			-6.76500E-04			+/- 3.9E-04		
Phase delay (usec)	-8.86808934192E+03			Apriori clockrate (us/s)			-2.7499999E-07			Resid phdelay (usec)			2.92962E-06			+/- 8.4E-08		
Delay rate (us/s)	-5.70626661070E-01			Apriori rate (us/s)			-5.70626779953E-01			Resid rate (us/s)			1.18883E-07			+/- 3.0E-10		
Total phase (deg)	31.3			Apriori accel (us/s/s)			3.21640226458E-05			Resid phase (deg)			90.8			+/- 2.6		

ph/seg (deg) 61.3 4.5 Search (2048X64) 0.710 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.3 7.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.3 5.2 Inc. seg. avg. 1.071 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 71.1 9.1 Inc. frq. avg. 1.218 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 g: az 217.9 el 52.8 pa 10.1 u,v (fr/asec) 4424.967 864.759 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bg..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bg.W.20.130G9L

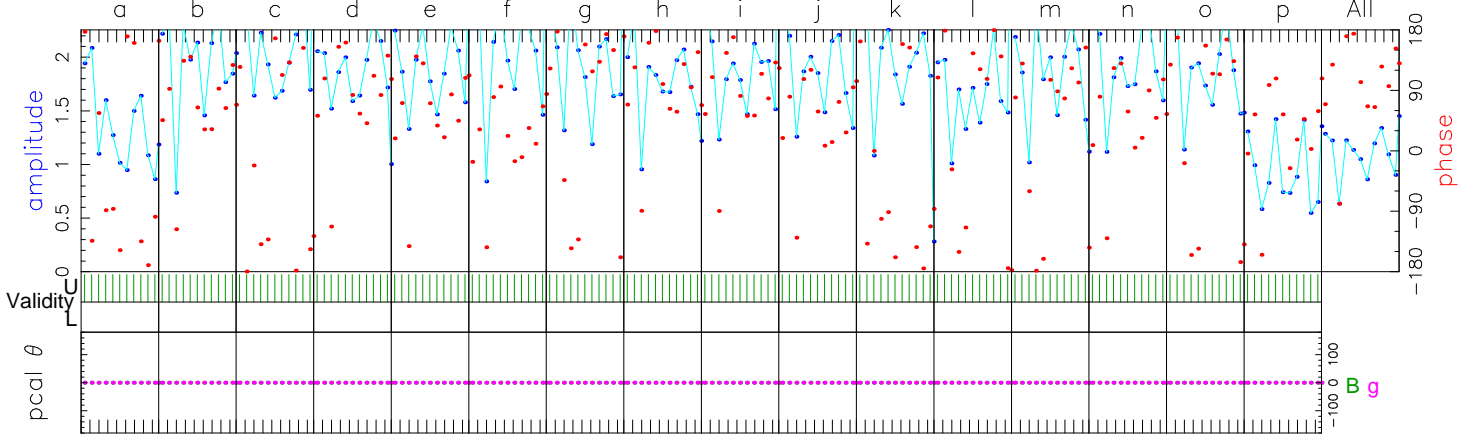


Fringe quality 1

SNR 45.0
Int time 479.271
Amp 0.752
Phase 116.0
PFD 0.0e+00
Delays (us)
SBD 0.002234
MBD 0.006458
Fringe rate (Hz) 0.010235
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112256
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-146.6	84.3	171.5	102.2	75.7	27.4	172.0	113.2	96.7	60.2	-149.4	160.3	122.2	66.0	158.5	46.4	Phase	116.0				
	0.9	1.4	1.4	1.2	1.2	1.5	1.4	1.2	1.3	1.3	1.4	1.1	1.3	1.2	1.4	0.6	Ampl.	1.2				
	127.7	128.6	129.1	129.1	129.1	129.4	129.2	129.4	129.4	129.7	129.5	129.3	129.2	129.1	128.5	129.0	Sbd box	129.3				
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs					
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-8.86808288675E+03														Apriori delay (usec)	-8.86808934485E+03	Resid mbdelay (usec)	6.45810E-03	+/-	2.4E-05
Sband delay (usec)			-8.86808711035E+03														Apriori clock (usec)	1.5508819E+01	Resid sbdelay (usec)	2.23450E-03	+/-	3.8E-04
Phase delay (usec)			-8.86808934111E+03														Apriori clockrate (us/s)	-2.7499999E-07	Resid phdelay (usec)	3.73969E-06	+/-	8.2E-08
Delay rate (us/s)			-5.70626661139E-01														Apriori rate (us/s)	-5.70626779953E-01	Resid rate (us/s)	1.18814E-07	+/-	3.0E-10
Total phase (deg)				56.4													Apriori accel (us/s/s)	3.21640226458E-05	Resid phase (deg)	116.0	+/-	2.5

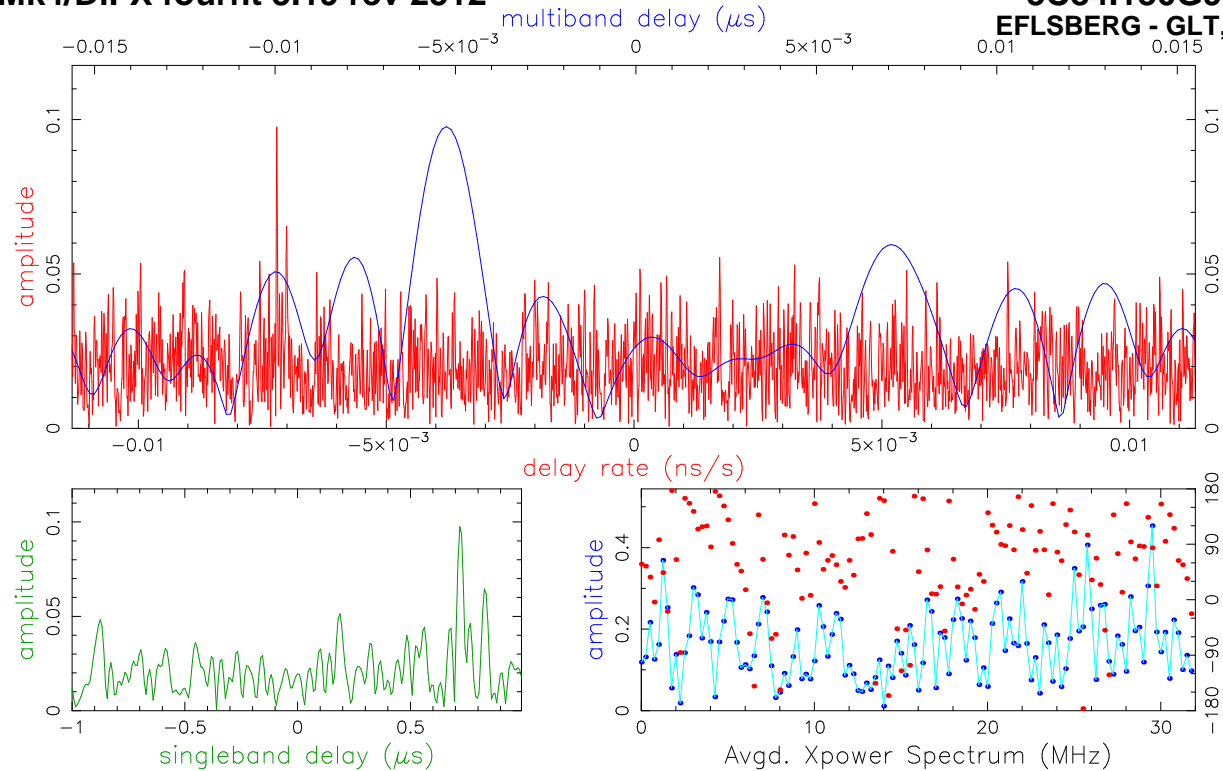
ph/seg (deg) 62.5 4.4 Theor. Amplitude 0.752 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 52.1 7.7 Search (2048X64) 0.719 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 59.8 5.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 70.0 8.9 Inc. seg. avg. 1.084 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 1.229 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 g: az 217.9 el 52.8 pa 10.1 u,v (fr/asec) 4424.967 864.759 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bg..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bg.W.31.130G9L

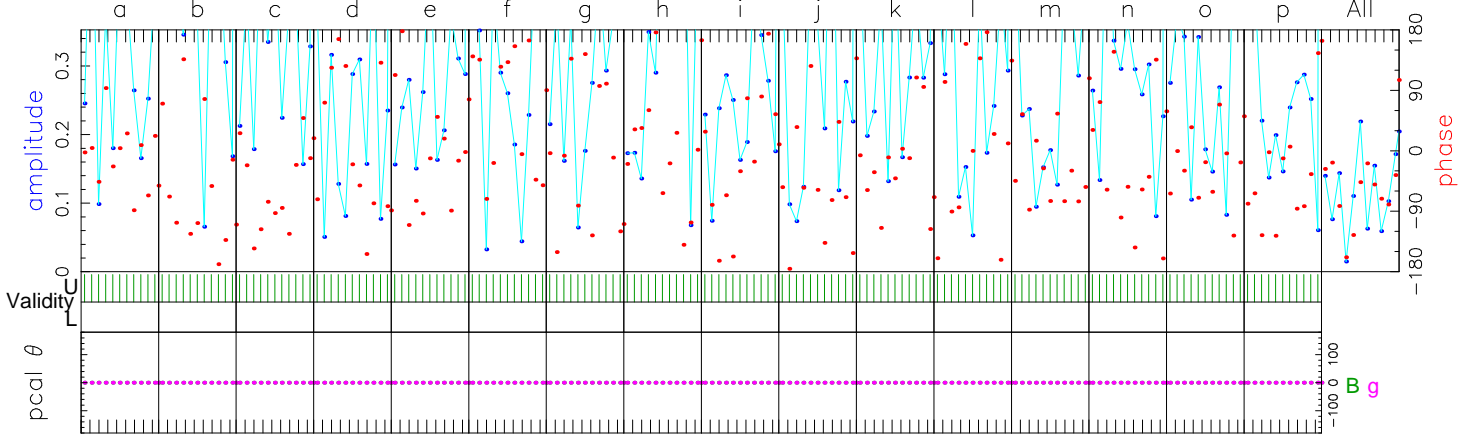
Mk4/DiFX fourfit 3.19 rev 2512

3C84.130G9L, No0205, Bg
EFLSBERG - GLT, fgroup W, pol LR



Fringe quality 0
SNR 5.9
Int time 479.271
Amp 0.118
Phase -54.6
PFD 5.6e-01
Delays (us)
SBD 0.721309
MBD -0.005208
Fringe rate (Hz)
-0.621993
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112301
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

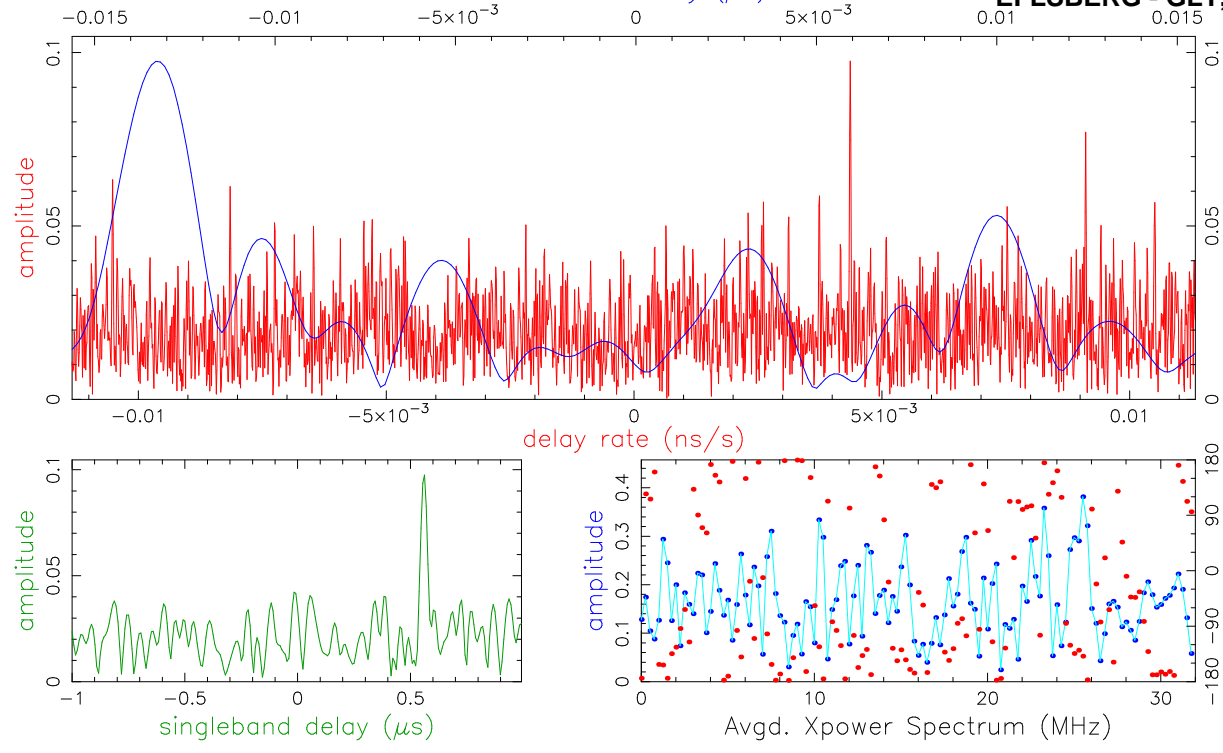
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
Group delay (usec)(sbd)		-8.86737580274E+03																
Sband delay (usec)		-8.86736803635E+03																
Phase delay (usec)		-8.86808934661E+03																
Delay rate (us/s)		-5.70634000672E-01																
Total phase (deg)					-114.2													
Apriori delay (usec)																		
Apriori clock (usec)																		
Apriori clockrate (us/s)																		
Apriori rate (us/s)																		
Apriori accel (us/s/s)																		
Resid mbdelay (usec)																		
Resid sbdelay (usec)																		
Resid phdelay (usec)																		
Resid rate (us/s)																		
Resid phase (deg)																		
Pcal mode: MANUAL, MANUAL																		
Pcal rate: 0.000E+00, 0.000E+00 (us/s)																		
Bits/sample: 2x2																		
Sample rate(MISamp/s): 64																		
Data rate(Mb/s): 2048																		
nlags: 128																		
t_cohere infinite																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		
ion window (TEC)																		
pcal period (AP's) 5, 5																		
SampCntNorm: enabled																		
simultaneous interpolator																		

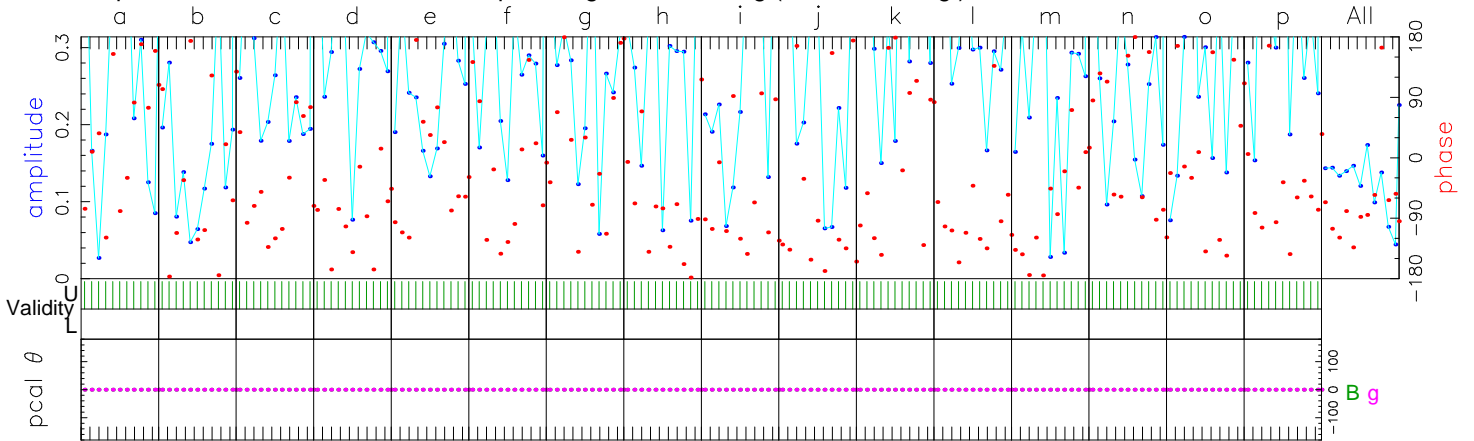
ph/seg (deg) 44.5 33.5 Search (2048X64) 0.094 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.9 58.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 75.9 38.7 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 71.5 67.5 Inc. frq. avg. 0.129 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 g: az 217.9 el 52.8 pa 10.1 u,v (fr/asec) 4424.967 864.759 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bg..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bg.W.48.130G9L

multiband delay (μ s)



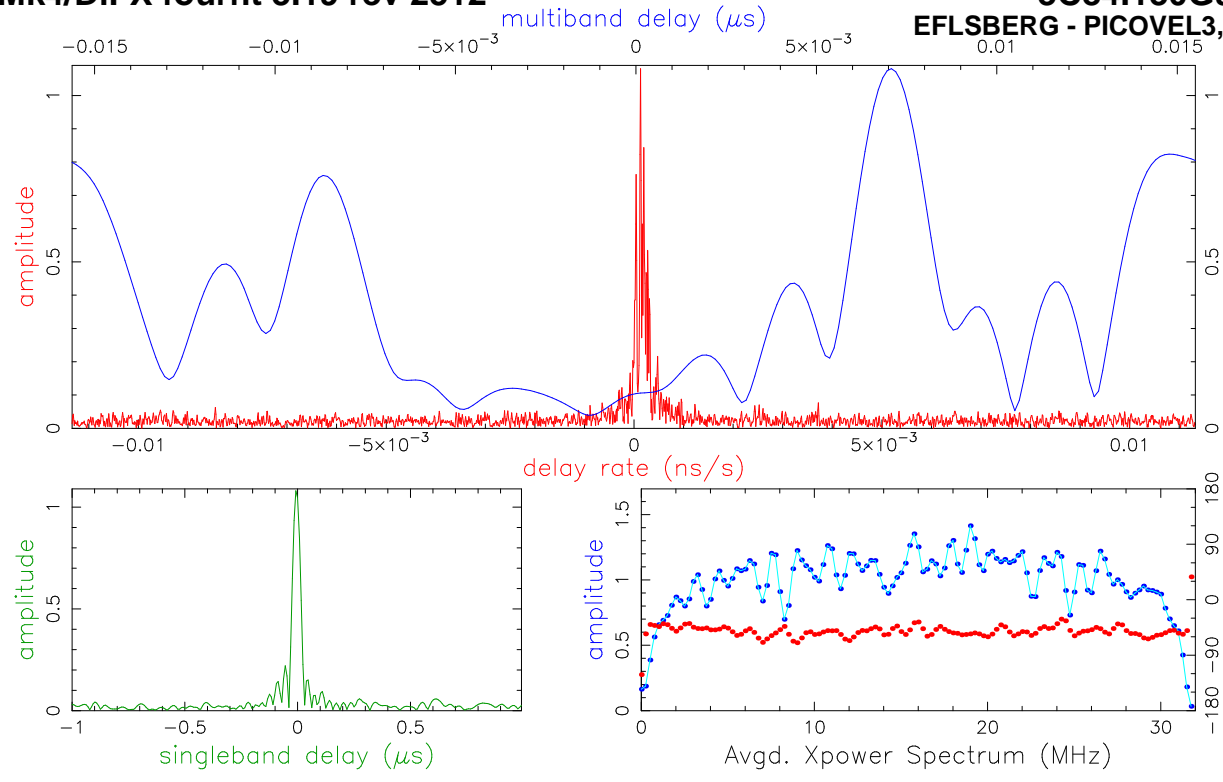
Fringe quality 0
SNR 5.9
Int time 479.367
Amp 0.105
Phase -96.4
PFD 6.2e-01
Delays (us)
SBD 0.560179
MBD -0.013236
Fringe rate (Hz) 0.376727
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112307
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-87.8	-170.8	-73.4	-79.1	-68.5	-86.2	-55.3	-93.0	-108.0	-139.3	-125.5	-99.3	-127.4	-170.0	-56.1	-70.8	Phase	-96.4				
	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.2	0.1	0.2	0.1	0.3	0.1	0.0	0.1	0.3	Ampl.	0.1				
	230.4	154.5	193.1	217.3	208.2	216.4	31.9	208.0	217.8	38.3	231.1	201.4	153.0	254.7	57.2	200.9	Sbd box	200.7				
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC phase					
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp					
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks					
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
Group delay (usec)(sbd)			-8.86754008098E+03														Apriori delay (usec)	-8.86808934485E+03	Resid mbdelay (usec)	-1.32361E-02	+/-	1.8E-04
Sband delay (usec)			-8.86752916635E+03														Apriori clock (usec)	1.5508819E+01	Resid sbdelay (usec)	5.60179E-01	+/-	2.9E-03
Phase delay (usec)			-8.86808934796E+03														Apriori clockrate (us/s)	-2.7499999E-07	Resid phdelay (usec)	-3.10844E-06	+/-	6.3E-07
Delay rate (us/s)			-5.70622406529E-01														Apriori rate (us/s)	-5.70626779953E-01	Resid rate (us/s)	4.37342E-06	+/-	2.3E-09
Total phase (deg)					-155.9												Apriori accel (us/s/s)	3.21640226458E-05	Resid phase (deg)	-96.4	+/-	19.5

ph/seg (deg) 40.4 33.7 Search (2048X64) 0.096 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 44.7 58.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.3 38.9 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 77.5 67.9 Inc. frq. avg. 0.097 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 g: az 217.9 el 52.8 pa 10.1 u,v (fr/asec) 4424.967 864.759 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bg..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bg.W.69.130G9L simultaneous interpolator

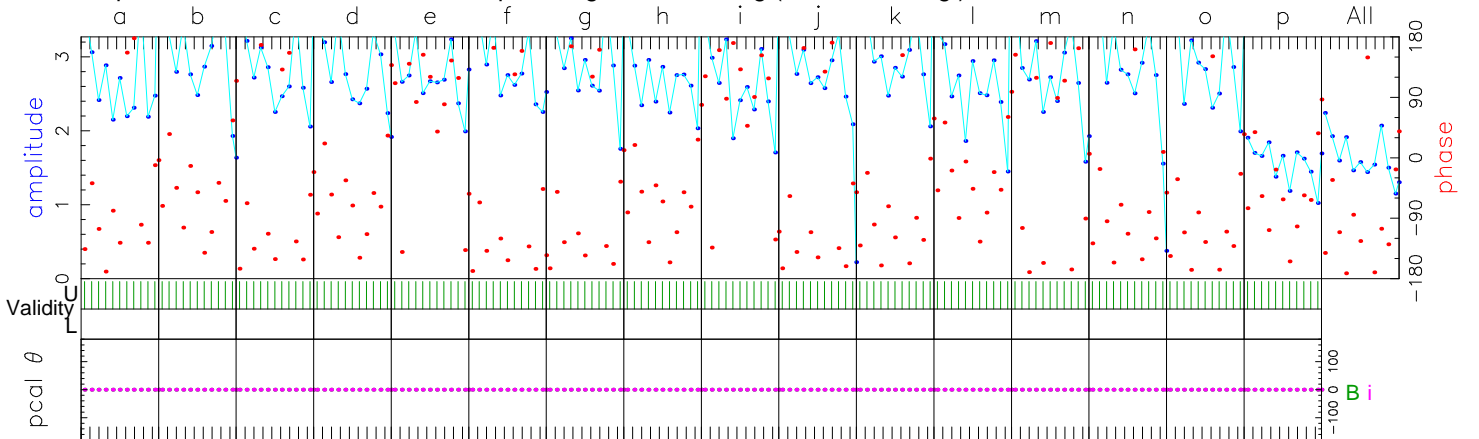


Fringe quality 1

SNR 65.3
Int time 479.574
Amp 1.090
Phase -123.0
PFD 0.0e+00
Delays (us)
SBD -0.005342
MBD 0.007076
Fringe rate (Hz) 0.011180
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112254
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-117.5	-57.7	-145.9	-67.4	123.7	-152.2	-147.5	-67.8	133.9	-149.4	-112.2	-39.4	167.6	-108.0	-121.6	-62.3	Phase	-123.0
	1.7	2.0	1.9	1.9	1.8	1.9	1.9	1.8	1.7	1.9	1.9	1.7	1.9	1.9	1.9	1.0	Ampl.	1.8
	128.9	128.9	129.0	128.7	128.9	128.8	128.9	128.9	128.9	128.9	128.9	128.8	128.9	128.9	128.7	128.6	Sbd box	128.3
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	8.90310802546E+02			Apriori delay (usec)			8.90303726820E+02			Resid mbdelay (usec)			7.07573E-03			+/- 1.7E-05		
Sband delay (usec)	8.90298384320E+02			Apriori clock (usec)			1.7345242E+01			Resid sbdelay (usec)			-5.34250E-03			+/- 2.6E-04		
Phase delay (usec)	8.90303722855E+02			Apriori clockrate (us/s)			1.5299999E-07			Resid phdelay (usec)			-3.96528E-06			+/- 5.7E-08		
Delay rate (us/s)	2.12961503403E-01			Apriori rate (us/s)			2.12961373612E-01			Resid rate (us/s)			1.29791E-07			+/- 2.0E-10		
Total phase (deg)				-112.8			Apriori accel (us/s/s)			8.01769847722E-06			Resid phase (deg)			-123.0 +/- 1.8		

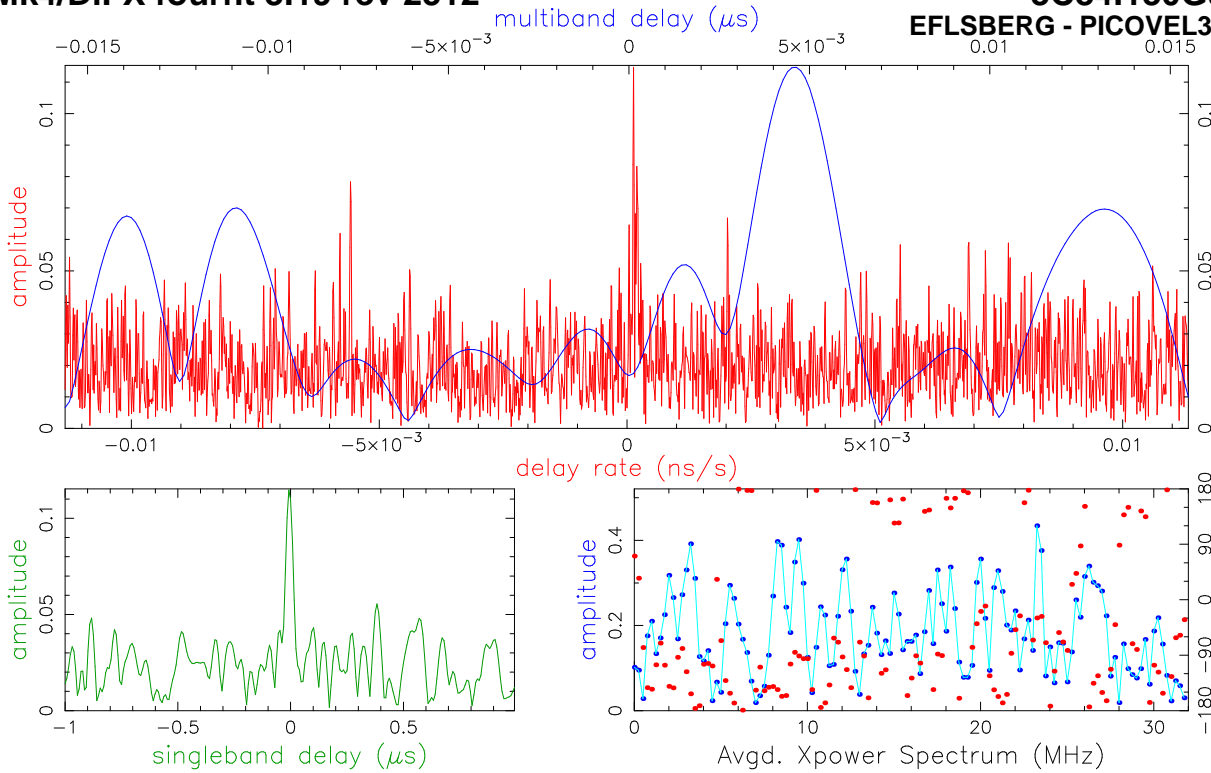
ph/seg (deg) RMS Theor. Amplitude 1.090 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.6 5.3 Search (2048X64) 1.029 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.2 3.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 67.8 6.1 Inc. seg. avg. 1.673 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 1.793 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 i: az 307.4 el 20.3 pa 58.6 u,v (fr/asec) -1618.828 1694.740 simultaneous interpolator

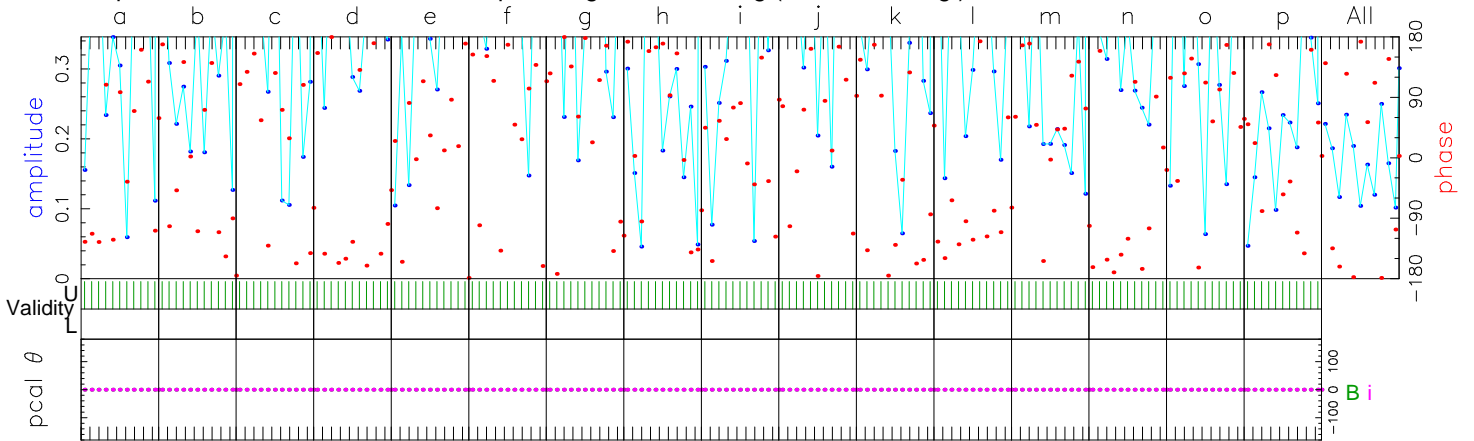
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bi..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bi.W.24.130G9L

Mk4/DiFX fourfit 3.19 rev 2512

3C84.130G9L, No0205, Bi
EFLSBERG - PICOVEL3, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	170.2	-150.6	138.3	-164.2	51.7	150.9	146.6	162.6	46.7	141.0	179.1	-117.1	94.7	-174.0	101.8	-114.2	Phase	161.6
B	0.1	0.1	0.2	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.0	Ampl.	0.1
i	139.7	110.5	128.8	128.3	241.8	5.7	127.2	129.0	17.6	15.9	128.6	18.5	39.1	56.2	185.2	52.1	Sbd box	128.2
B:i	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B:i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	

Group delay (usec)(sbd) 8.90308369077E+02 Apriori delay (usec) 8.90303726820E+02 Resid mbdelay (usec) 4.64226E-03 +/- 1.6E-04

Sband delay (usec) 8.90297849820E+02 Apriori clock (usec) 1.7345242E+01 Resid sbdelay (usec) -5.87700E-03 +/- 2.5E-03

Phase delay (usec) 8.90303732032E+02 Apriori clockrate (us/s) 1.5299999E-07 Resid phdelay (usec) 5.21174E-06 +/- 5.4E-07

Delay rate (us/s) 2.12961504213E-01 Apriori rate (us/s) 2.12961373612E-01 Resid rate (us/s) 1.30601E-07 +/- 1.9E-09

Total phase (deg) 171.8 Apriori accel (us/s/s) 8.01769847722E-06 Resid phase (deg) 161.6 +/- 16.6

RMS Theor. Amplitude 0.115 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 53.5 28.7 Search (2048X64) 0.112 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

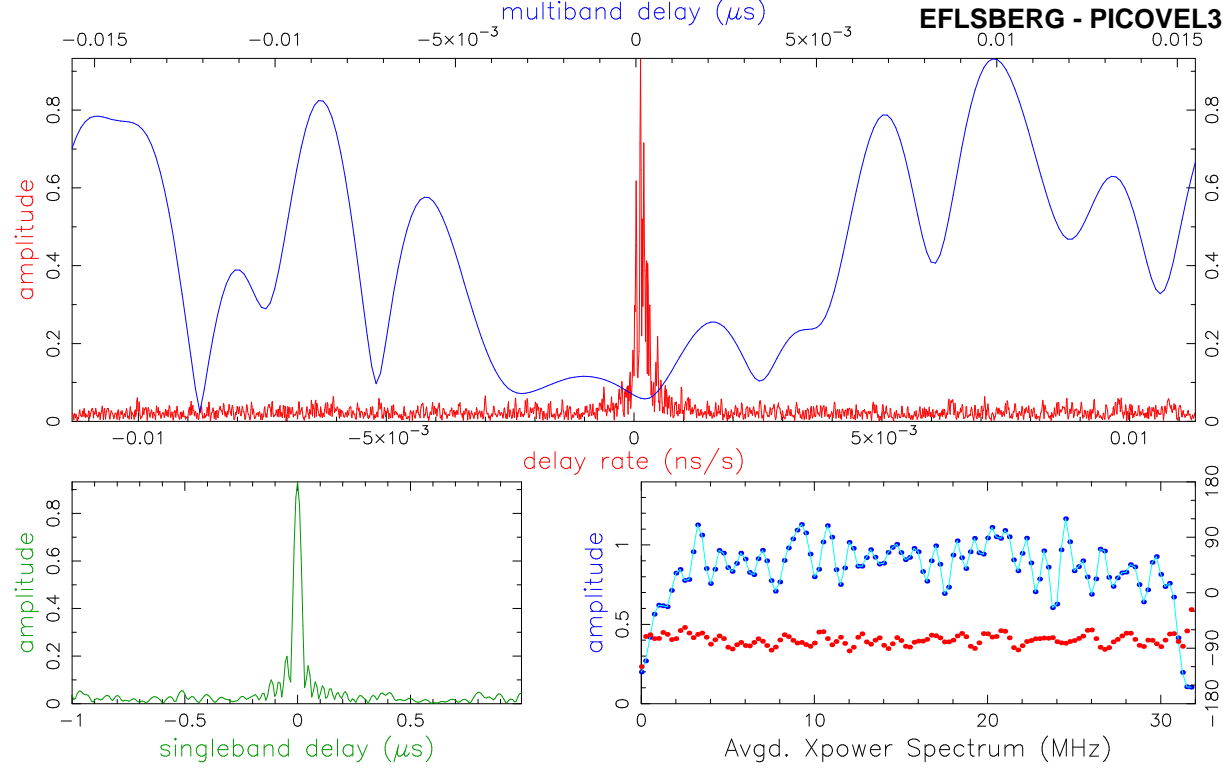
amp/seg (%) 64.0 50.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 61.4 33.2 Inc. seg. avg. 0.150 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011

amp/frq (%) 72.9 57.9 Inc. frq. avg. 0.146 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

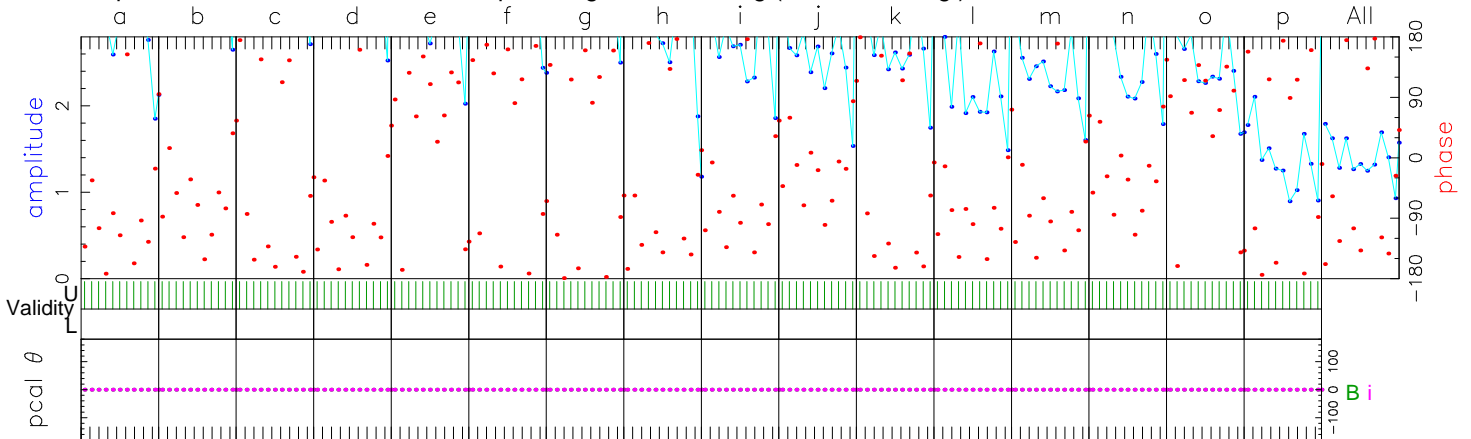
B: az 308.6 el 22.7 pa 41.3 i: az 307.4 el 20.3 pa 58.6 u,v (fr/asec) -1618.828 1694.740 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bi..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bi.W.43.130G9L



Fringe quality 1
 SNR 55.9
 Int time 479.574
 Amp 0.933
 Phase -138.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.000727
 MBD 0.009916
 Fringe rate (Hz) 0.011119
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192b
 Exper # 16383
 Yr:day 2019:278
 Start 090000.00
 Stop 090759.74
 FRT 090400.00
 Corr/FF/build
 2020:080:062909
 2020:086:112249
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

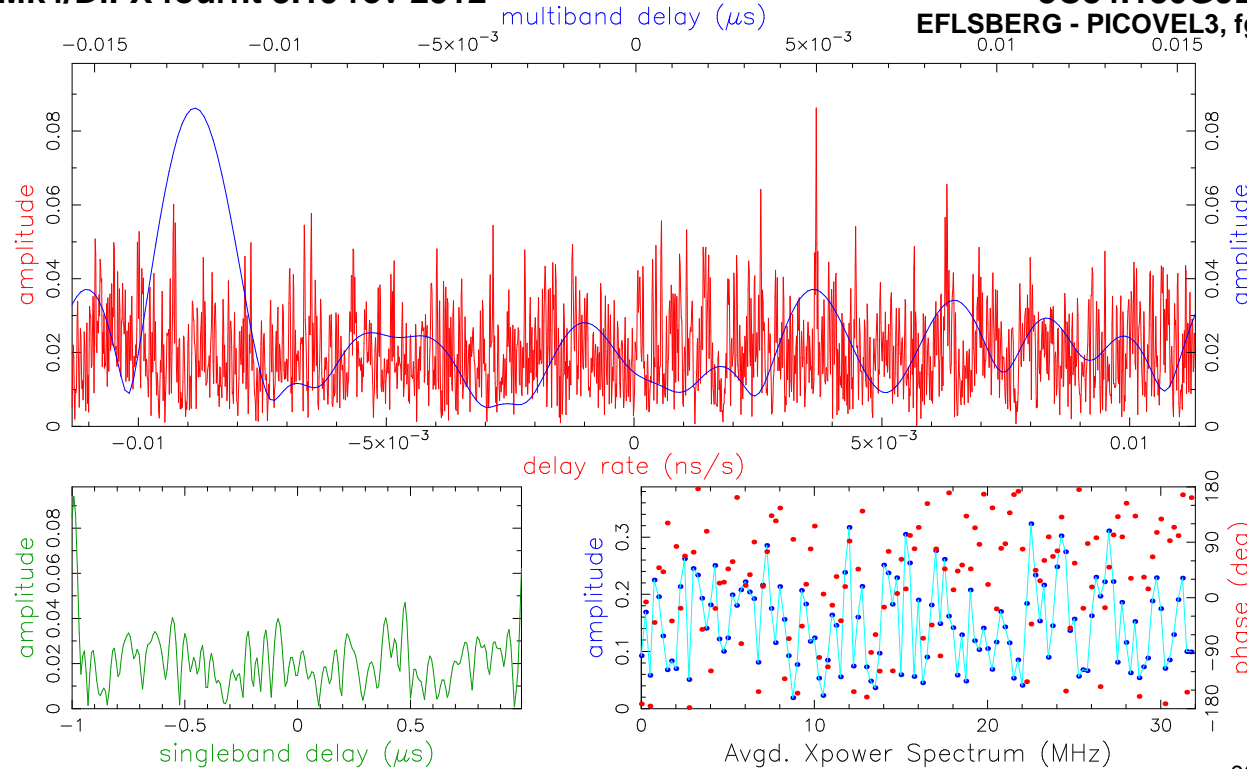


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-116.9	-68.3	-165.2	-116.0	110.5	164.7	163.8	-142.3	-90.5	-22.2	-160.5	-98.9	-99.1	-32.6	110.4	176.6		Phase	-138.3
	2.0	2.4	2.6	2.2	2.1	2.4	2.4	2.1	1.8	1.8	1.9	1.5	1.5	1.7	1.7	0.9		Ampl.	1.9
	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	129.0	128.8	129.0	129.0	129.0	129.0	128.8	128.8		Sbd box	128.9
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	1000
B:i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase	1000
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	0:0
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	1000
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	

Group delay (usec)(sbd) 8.90313642327E+02 Apriori delay (usec) 8.90303726820E+02 Resid mbdelay (usec) 9.91551E-03 +/- 1.9E-05
 Sband delay (usec) 8.90302999820E+02 Apriori clock (usec) 1.7345242E+01 Resid sbdelay (usec) -7.27000E-04 +/- 3.1E-04
 Phase delay (usec) 8.90303722361E+02 Apriori clockrate (us/s) 1.5299999E-07 Resid phdelay (usec) -4.45899E-06 +/- 6.6E-08
 Delay rate (us/s) 2.12961502697E-01 Apriori rate (us/s) 2.12961373612E-01 Resid rate (us/s) 1.29085E-07 +/- 2.4E-10
 Total phase (deg) -128.1 Apriori accel (us/s/s) 8.01769847722E-06 Resid phase (deg) -138.3 +/- 2.1

RMS Theor. Amplitude 0.933 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 55.4 3.6 Search (2048X64) 0.889 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 57.3 6.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 71.0 4.1 Inc. seg. avg. 1.408 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 116.9 7.2 Inc. frq. avg. 1.934 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 i: az 307.4 el 20.3 pa 58.6 u,v (fr/asec) -1618.828 1694.740 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bi..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bi.W.5.130G9L

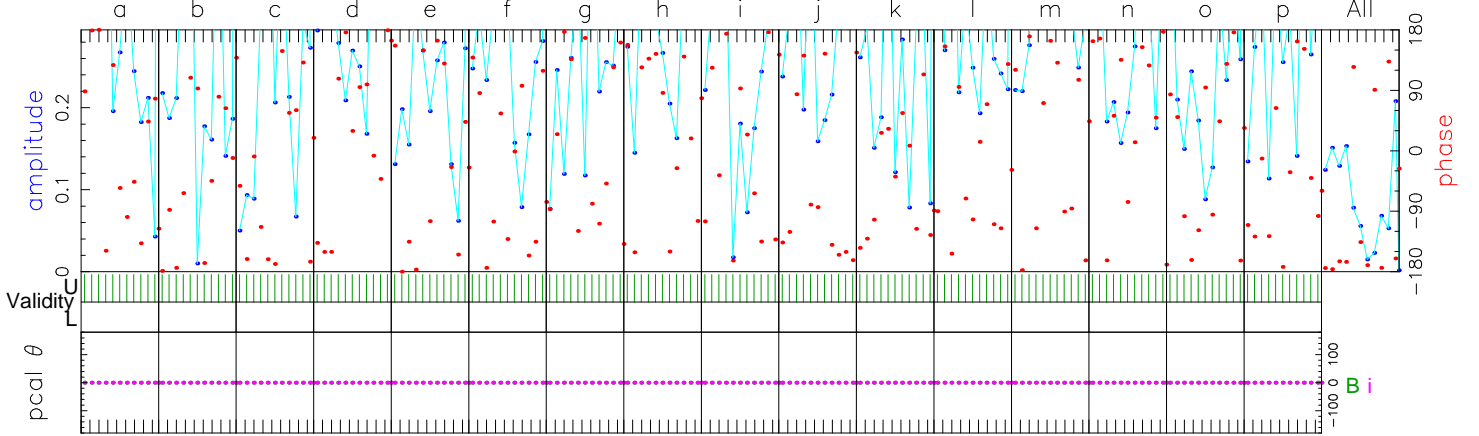


Fringe quality 0

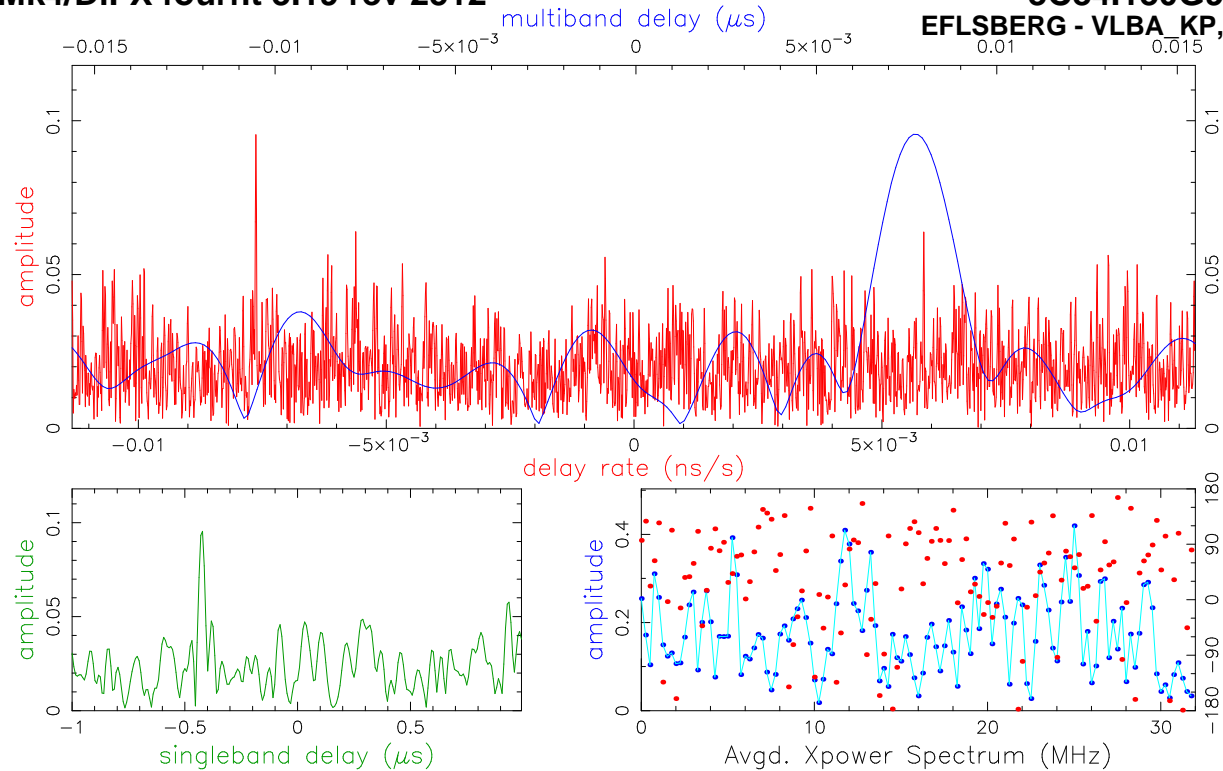
SNR 5.6
Int time 479.574
Amp 0.098
Phase -174.7
PFD 9.9e-01
Delays (us)
SBD -0.991762
MBD -0.012230
Fringe rate (Hz) 0.316755
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112303
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-156.6	109.6	178.5	-179.2	168.4	159.3	-135.3	139.8	-142.8	-149.8	-3.2	-127.0	178.2	149.9	137.8	-106.1	Phase	-174.7
	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	43.5	84.8	255.6	247.4	162.4	7.2	57.7	245.4	90.1	2.1	8.2	25.2	197.8	33.1	156.5	177.0	Sbd box	2.1
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	8.89322746877E+02			Apriori delay (usec)			8.90303726820E+02			Resid mbdelay (usec)			-1.22299E-02			+/- 1.9E-04		
Sband delay (usec)	8.89311964820E+02			Apriori clock (usec)			1.7345242E+01			Resid sbdelay (usec)			-9.91762E-01			+/- 3.1E-03		
Phase delay (usec)	8.90303721187E+02			Apriori clockrate (us/s)			1.5299999E-07			Resid phdelay (usec)			-5.63301E-06			+/- 6.6E-07		
Delay rate (us/s)	2.12965050828E-01			Apriori rate (us/s)			2.12961373612E-01			Resid rate (us/s)			3.67722E-06			+/- 2.4E-09		
Total phase (deg)	-164.5			Apriori accel (us/s/s)			8.01769847722E-06			Resid phase (deg)			-174.7			+/- 20.3		
ph/seg (deg)	RMS	Theor.	Amplitude			0.098 +/- 0.017			Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5						
amp/seg (%)	40.1	35.2	Search (2048X64)			0.092			Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)			-1.000 1.000			
ph/frq (deg)	61.9	61.5	Interp.			0.000			Bits/sample: 2x2			SampCntNorm: enabled			mb window (us)		-0.016 0.016	
amp/frq (%)	61.1	40.7	Inc. seg. avg.			0.084			Sample rate(MISamp/s): 64			dr window (ns/s)			-0.011 0.011			
	48.7	71.0	Inc. frq. avg.			0.089			Data rate(Mb/s): 2048			nlags: 128 t_cohere infinite			ion window (TEC)		0.00 0.00	
B: az 308.6 el 22.7 pa 41.3	i: az 307.4 el 20.3 pa 58.6			u,v (fr/asec)			-1618.828 1694.740									simultaneous interpolator		
Control file: cf_1234_gmva			Input file: /Exps/c192b/v2/1234/No0205/Bi..130G9L			Output file: /Exps/c192b/v2/1234/No0205/Bi.W.58.130G9L												

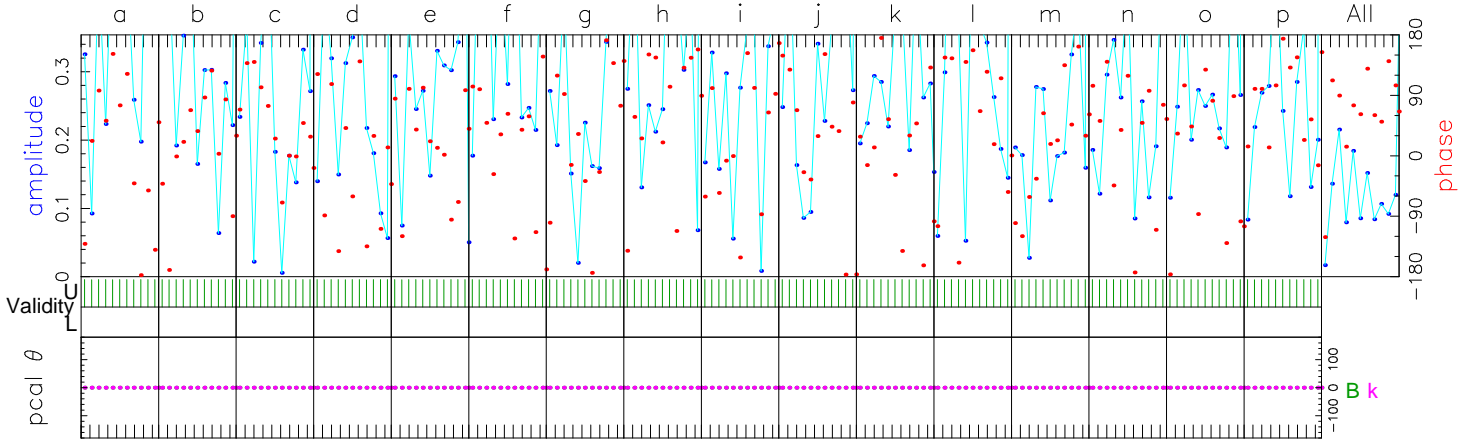


Fringe quality 0

SNR 5.8
Int time 477.496
Amp 0.118
Phase 88.9
PFD 8.0e-01
Delays (us)
SBD -0.424978
MBD 0.007664
Fringe rate (Hz)
-0.657959
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

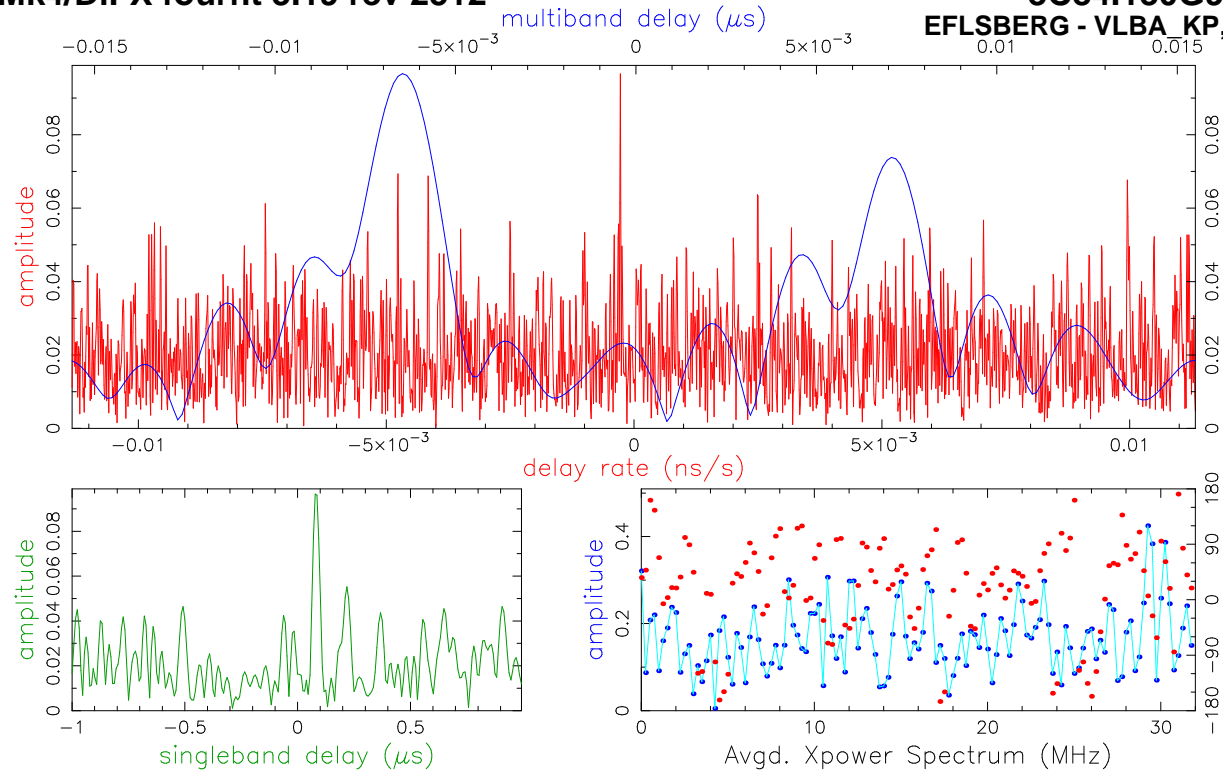
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112256
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



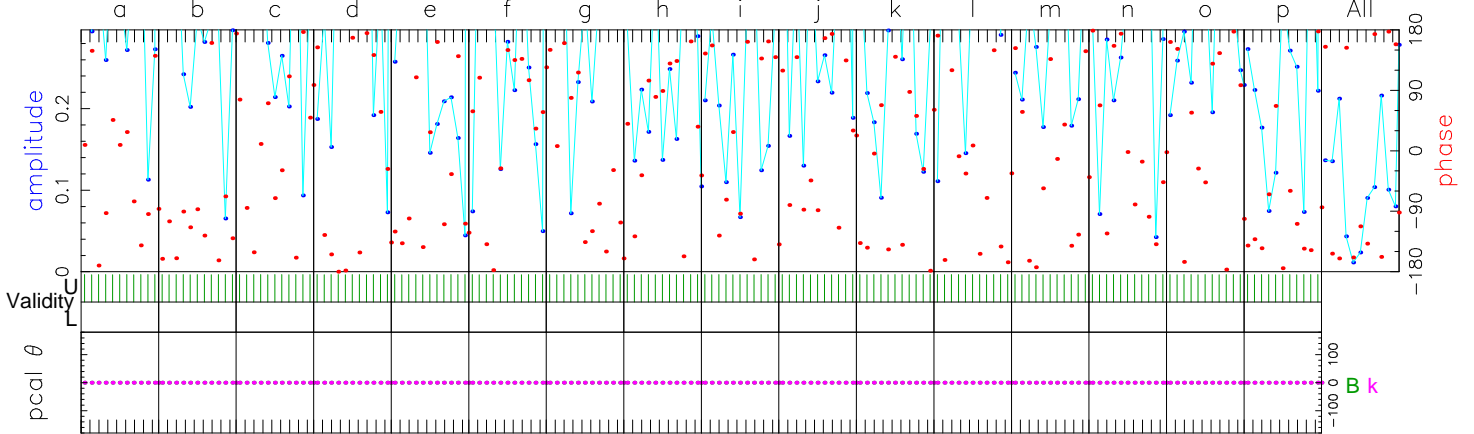
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
Group delay (usec)(sbd)			-1.26393704974E+04															
Sband delay (usec)			-1.26393656387E+04															
Phase delay (usec)			-1.26389406583E+04															
Delay rate (us/s)			-9.16698414102E-01															
Total phase (deg)																		
Apriori delay (usec)																		
Apriori clock (usec)																		
Apriori clockrate (us/s)																		
Apriori rate (us/s)																		
Apriori accel (us/s/s)																		
Resid mbdelay (usec)																		
Resid sbdelay (usec)																		
Resid phdelay (usec)																		
Resid rate (us/s)																		
Resid phase (deg)																		
Pcal mode:																		
Pcal rate:																		
Bits/sample:																		
Sample rate(MISamp/s):																		
Data rate(Mb/s):																		
nlags:																		
t_cohere																		
ion window (TEC)																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		

ph/seg (deg) 57.6 34.2 Search (2048X64) 0.094 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 58.2 59.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 49.0 39.5 Inc. seg. avg. 0.120 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 48.0 68.9 Inc. frq. avg. 0.111 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 308.6 el 22.7 pa 41.3 k: az 43.8 el 75.8 pa -127.2 u,v (fr/asec) 7158.162 7494.755 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bk..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bk.W.33.130G9L



Fringe quality 0
SNR 5.9
Int time 477.496
Amp 0.099
Phase -170.1
PFD 5.8e-01
Delays (us)
SBD 0.081818
MBD -0.006425
Fringe rate (Hz)
-0.023753
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112302
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-61.2	-136.5	-14.0	178.8	-141.7	136.0	-139.4	109.9	168.0	168.7	166.7	-165.1	150.0	-86.3	157.7	-139.1	Phase	-170.1				
	0.0	0.2	0.0	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1				
	3.2	139.3	219.5	139.0	157.4	140.1	35.9	102.4	247.7	191.8	64.8	174.1	39.0	239.2	237.3	236.1	Sbd box	139.5				
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-1.2638853362E+04														Apriori delay (usec)	-1.26389406612E+04	Resid mbdelay (usec)	-6.42501E-03	+/-	1.8E-04
Sband delay (usec)			-1.26388588432E+04														Apriori clock (usec)	1.7218233E+01	Resid sbdelay (usec)	8.18180E-02	+/-	2.9E-03
Phase delay (usec)			-1.26389406667E+04														Apriori clockrate (us/s)	-5.4210100E-09	Resid phdelay (usec)	-5.48393E-06	+/-	6.3E-07
Delay rate (us/s)			-9.16691051590E-01														Apriori rate (us/s)	-9.16690775846E-01	Resid rate (us/s)	-2.75744E-07	+/-	2.3E-09
Total phase (deg)					-9.9												Apriori accel (us/s/s)	8.54635057238E-05	Resid phase (deg)	-170.1	+/-	19.4

ph/seg (deg) 28.8 33.6
amp/seg (%) 65.9 58.6
ph/frq (deg) 65.8 38.8
amp/frq (%) 74.3 67.7

RMS Theor. Amplitude 0.099 +/- 0.017
Search (2048X64) 0.095
Interp. 0.000
Inc. seg. avg. 0.090
Inc. frq. avg. 0.104

Group delay (usec)(sbd) -1.2638853362E+04
Sband delay (usec) -1.26388588432E+04
Phase delay (usec) -1.26389406667E+04
Delay rate (us/s) -9.16691051590E-01
Total phase (deg) -9.9

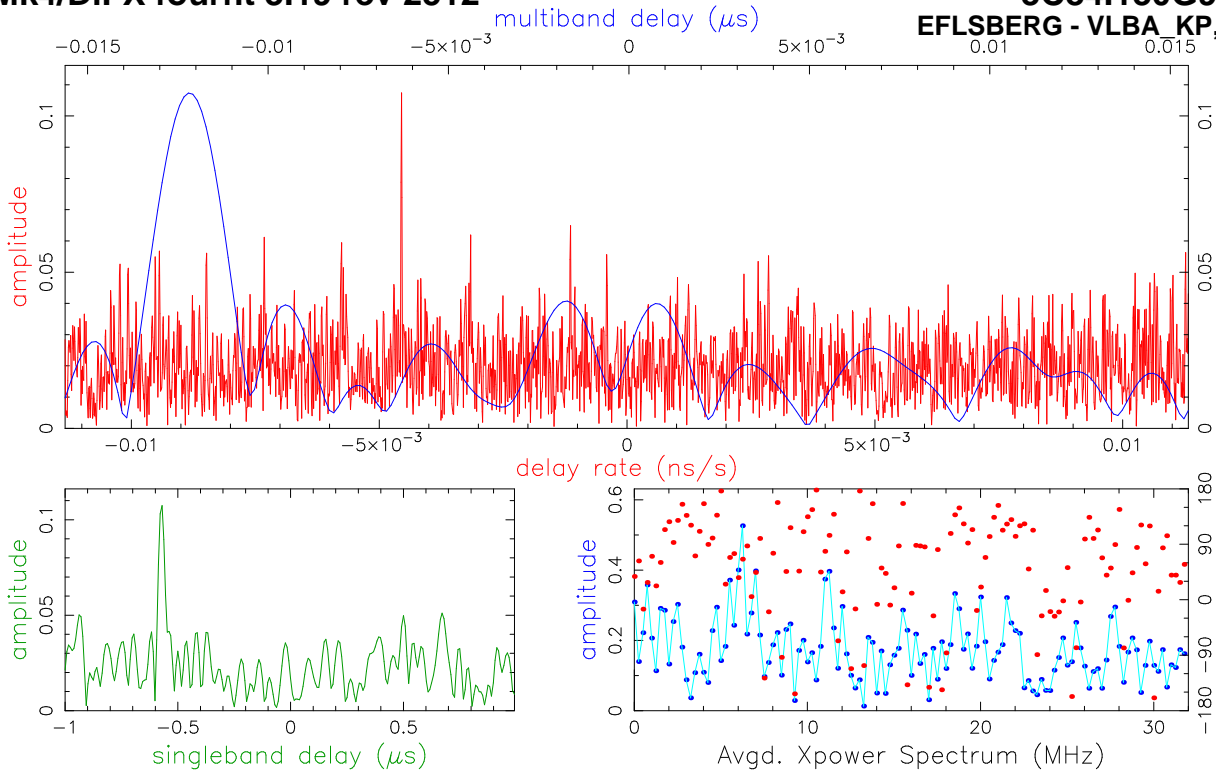
Apriori delay (usec) -1.26389406612E+04
Apriori clock (usec) 1.7218233E+01
Apriori clockrate (us/s) -5.4210100E-09
Apriori rate (us/s) -9.16690775846E-01
Apriori accel (us/s/s) 8.54635057238E-05

Resid mbdelay (usec) -6.42501E-03
Resid sbdelay (usec) 8.18180E-02
Resid phdelay (usec) -5.48393E-06
Resid rate (us/s) -2.75744E-07
Resid phase (deg) -170.1

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(MISamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

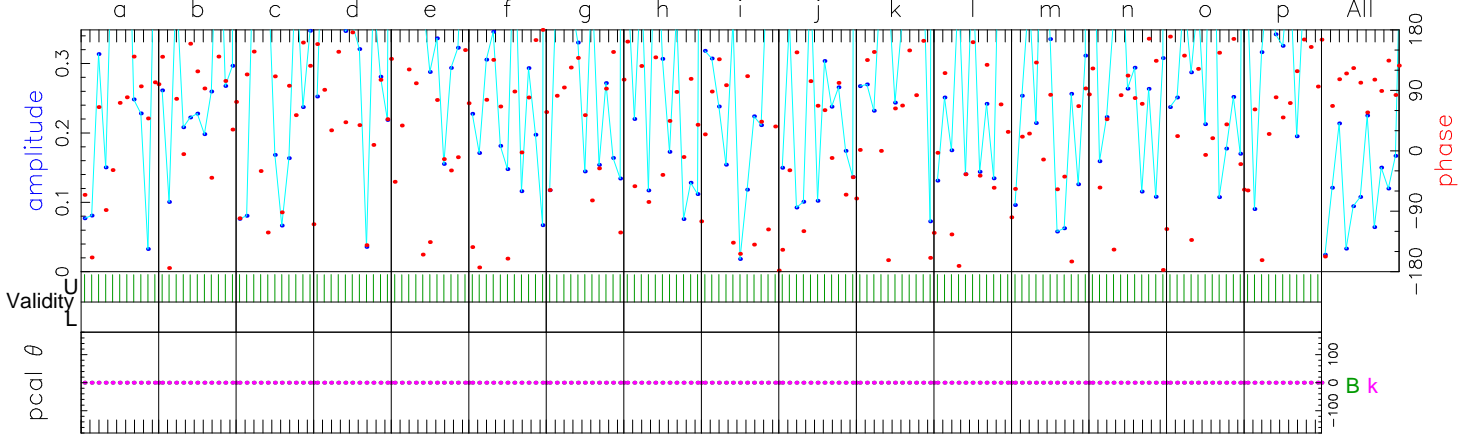
sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 k: az 43.8 el 75.8 pa -127.2 u,v (fr/asec) 7158.162 7494.755 simultaneous interpolator

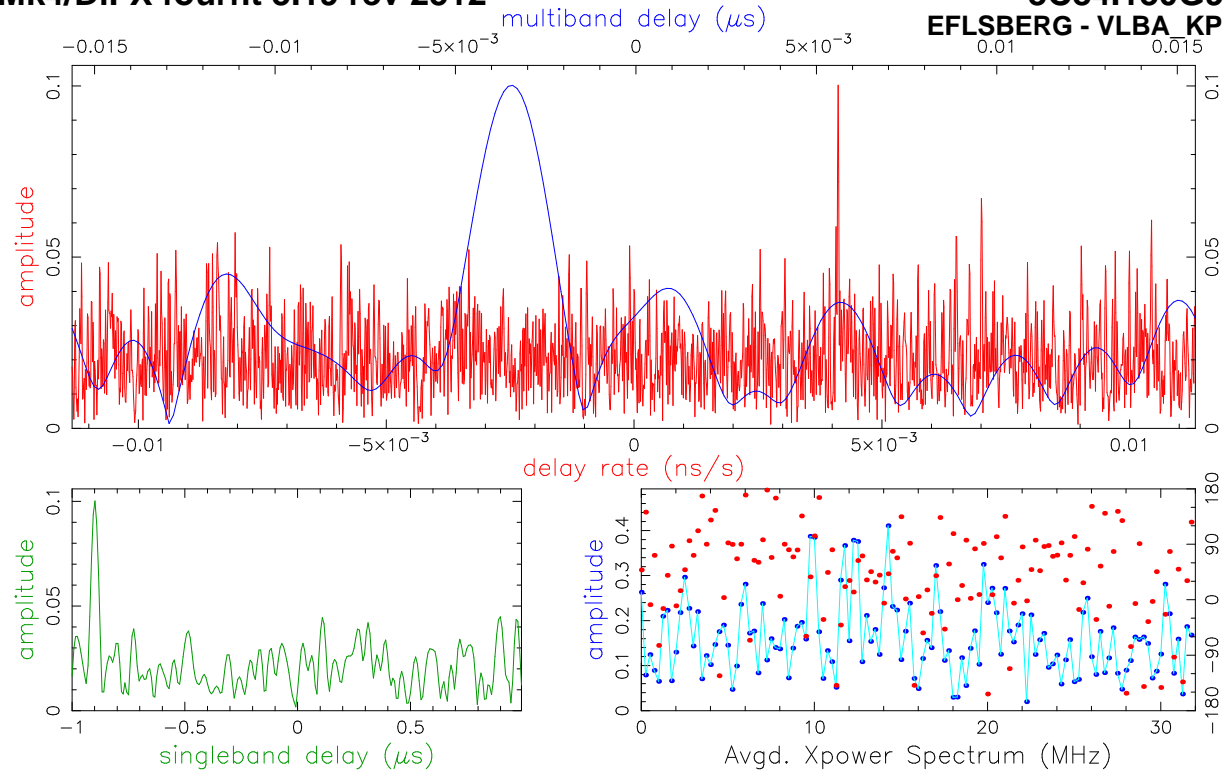


Fringe quality 0
SNR 6.5
Int time 477.497
Amp 0.116
Phase 94.0
PFD 2.4e-02
Delays (us)
SBD -0.572834
MBD -0.012200
Fringe rate (Hz)
-0.392773
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112307
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All		
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	94.0	94.0		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	0.2	0.2		
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	0.1	0.1		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	55.7	55.7		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR				
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL				
Group delay (usec)(sbd)	-1.26395153613E+04				Apriori delay (usec)				-1.26389406612E+04				Resid mbdelay (usec)				-1.22001E-02 +/- 1.7E-04			
Sband delay (usec)	-1.26395134957E+04				Apriori clock (usec)				1.7218233E+01				Resid sbdelay (usec)				-5.72834E-01 +/- 2.7E-03			
Phase delay (usec)	-1.26389406582E+04				Apriori clockrate (us/s)				-5.4210100E-09				Resid phdelay (usec)				3.02991E-06 +/- 5.7E-07			
Delay rate (us/s)	-9.16695335549E-01				Apriori rate (us/s)				-9.16690775846E-01				Resid rate (us/s)				-4.55970E-06 +/- 2.1E-09			
Total phase (deg)	-105.9				Apriori accel (us/s/s)				8.54635057238E-05				Resid phase (deg)				94.0 +/- 17.7			
ph/seg (deg)	RMS	Theor.	Amplitude		0.116 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)		-1.000		1.000					
amp/seg (%)	39.7	30.6	Search (2048X64)		0.104		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)		-0.016		0.016					
ph/frq (deg)	59.7	53.4	Interp.		0.000		Bits/sample: 2x2		Data rate(Mb/s): 2048		nlags: 128		t_cohere infinite		ion window (TEC)		0.00		0.00	
amp/frq (%)	26.0	35.3	Inc. seg. avg.		0.113		Sample rate(MSamp/s): 64													
	43.9	61.6	Inc. frq. avg.		0.105															

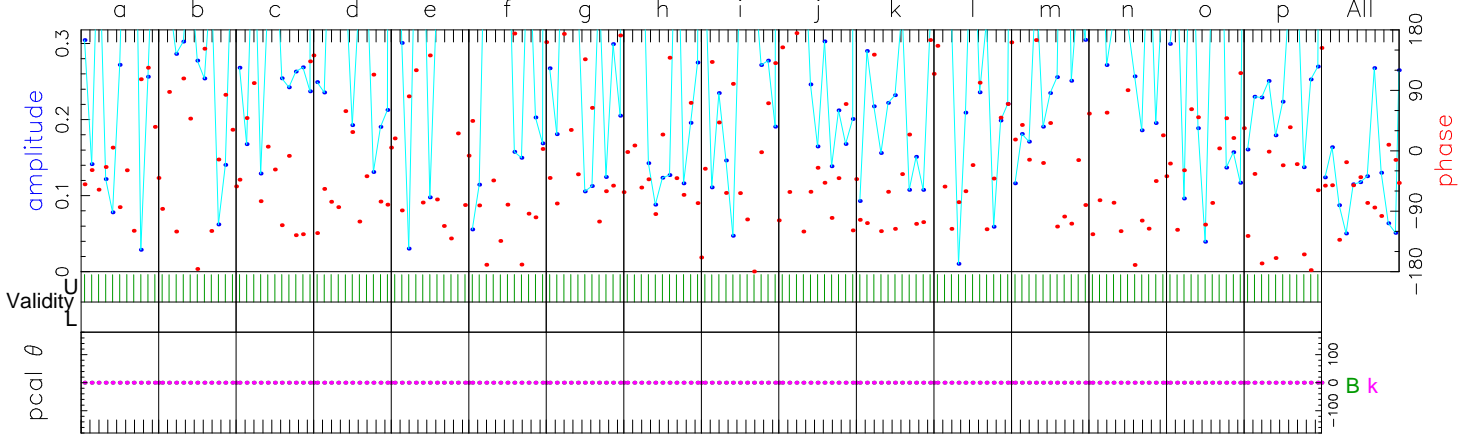


Fringe quality 0

SNR 6.0
Int time 477.497
Amp 0.106
Phase -64.0
PFD 4.1e-01
Delays (us)
SBD -0.899364
MBD -0.003452
Fringe rate (Hz) 0.355135
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112250
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

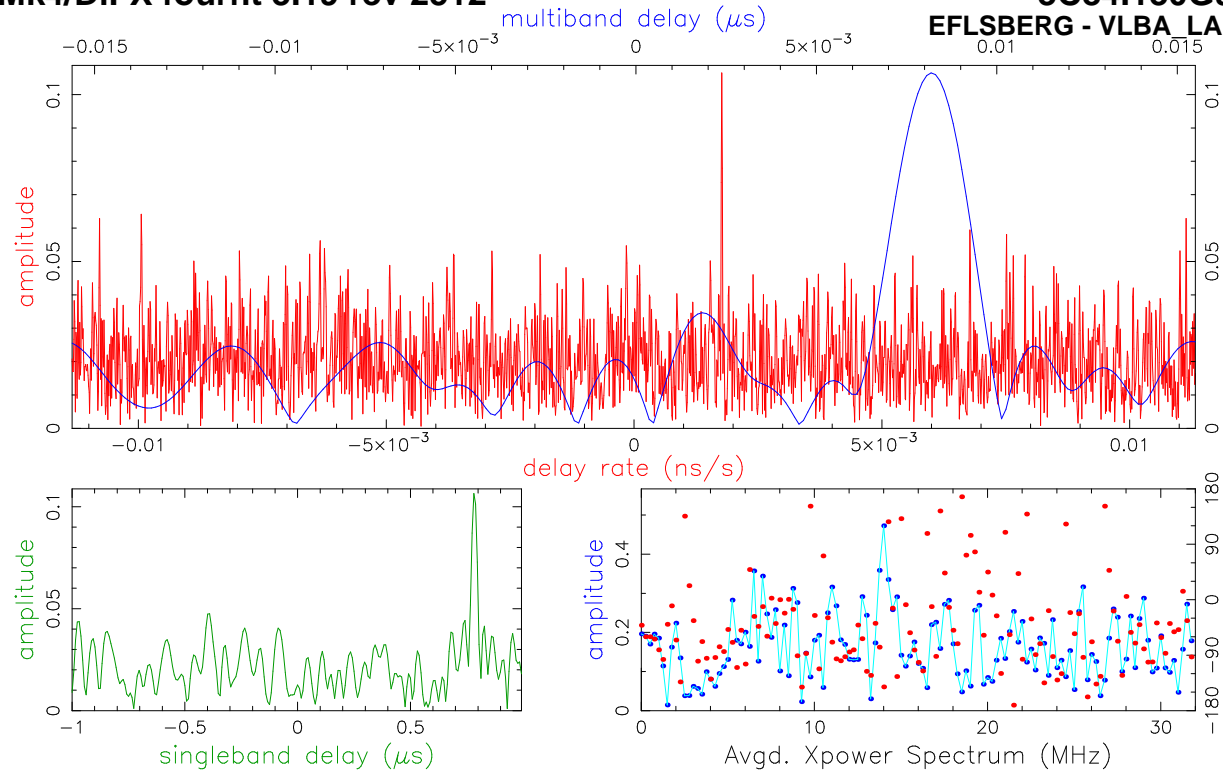


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-47.1	113.0	-30.7	-63.7	-75.2	-109.5	-54.5	-26.3	-42.4	-99.1	-110.8	-56.9	-69.0	-94.7	-0.1	-48.3	Phase	-64.0
	0.2	0.0	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	125.1	113.4	159.1	61.4	185.9	171.3	93.1	253.2	254.7	70.4	55.9	3.1	136.1	94.2	15.7	166.9	Sbd box	13.9
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	

Group delay (usec)(sbd) -1.26398503634E+04 Apriori delay (usec) -1.26389406612E+04 Resid mbdelay (usec) -3.45218E-03 +/- 1.8E-04
 Sband delay (usec) -1.26398400257E+04 Apriori clock (usec) 1.7218233E+01 Resid sbdelay (usec) -8.99364E-01 +/- 2.9E-03
 Phase delay (usec) -1.26389406633E+04 Apriori clockrate (us/s) -5.4210100E-09 Resid phdelay (usec) -2.06447E-06 +/- 6.2E-07
 Delay rate (us/s) -9.16686653084E-01 Apriori rate (us/s) -9.16690775846E-01 Resid rate (us/s) 4.12276E-06 +/- 2.2E-09
 Total phase (deg) -263.9 Apriori accel (us/s/s) 8.54635057238E-05 Resid phase (deg) -64.0 +/- 19.1

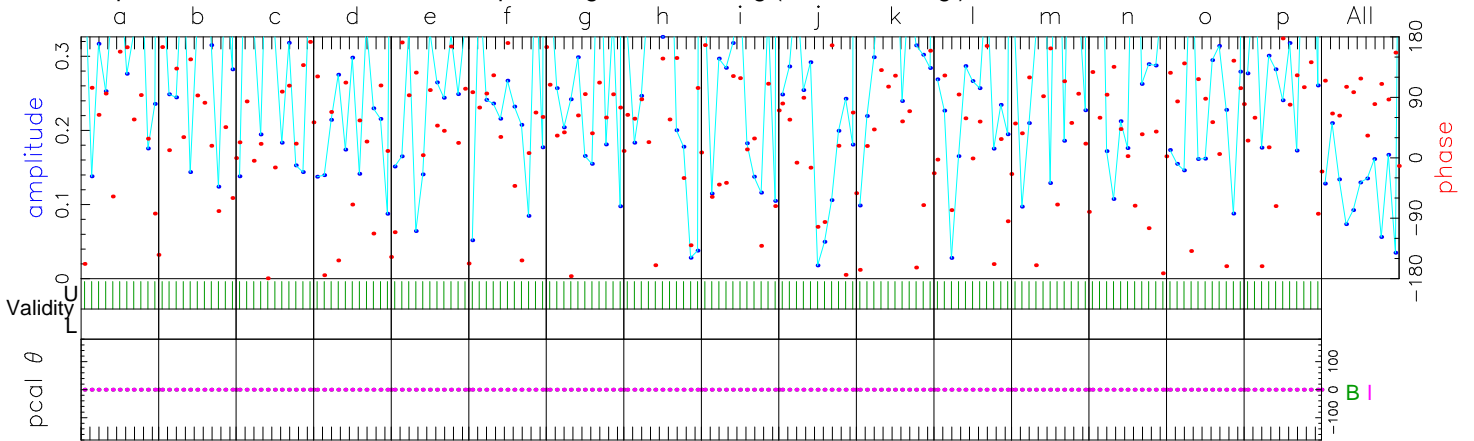
RMS Theor. Amplitude 0.106 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 39.9 33.1 Search (2048X64) 0.096 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 61.2 57.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 57.1 38.2 Inc. seg. avg. 0.107 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.0 66.7 Inc. frq. avg. 0.105 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 k: az 43.8 el 75.8 pa -127.2 u,v (fr/asec) 7158.162 7494.755 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bk..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bk.W.8.130G9L



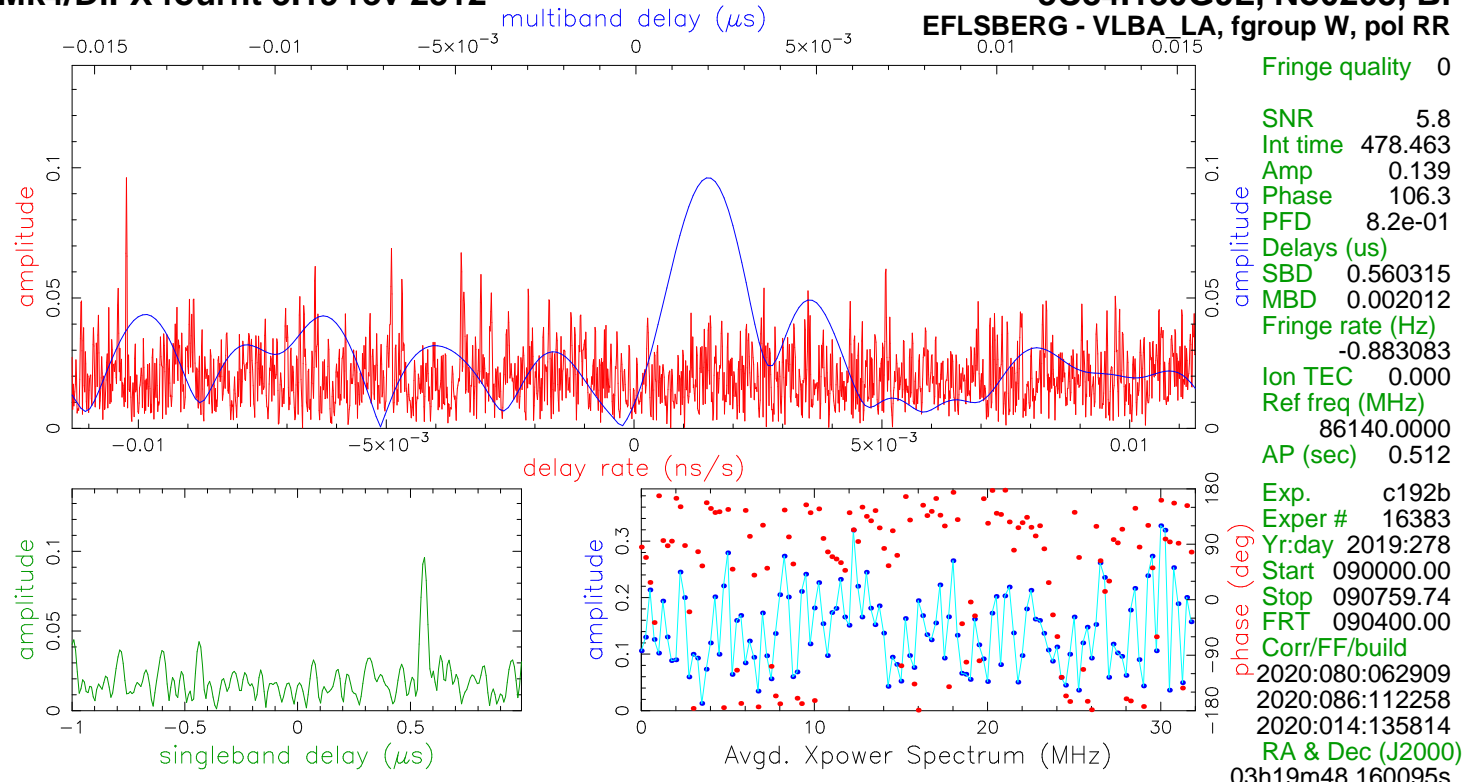
Fringe quality 0
SNR 6.4
Int time 478.462
Amp 0.109
Phase 84.5
PFD 3.3e-02
Delays (us)
SBD 0.783578
MBD 0.008192
Fringe rate (Hz) 0.153095
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112251
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

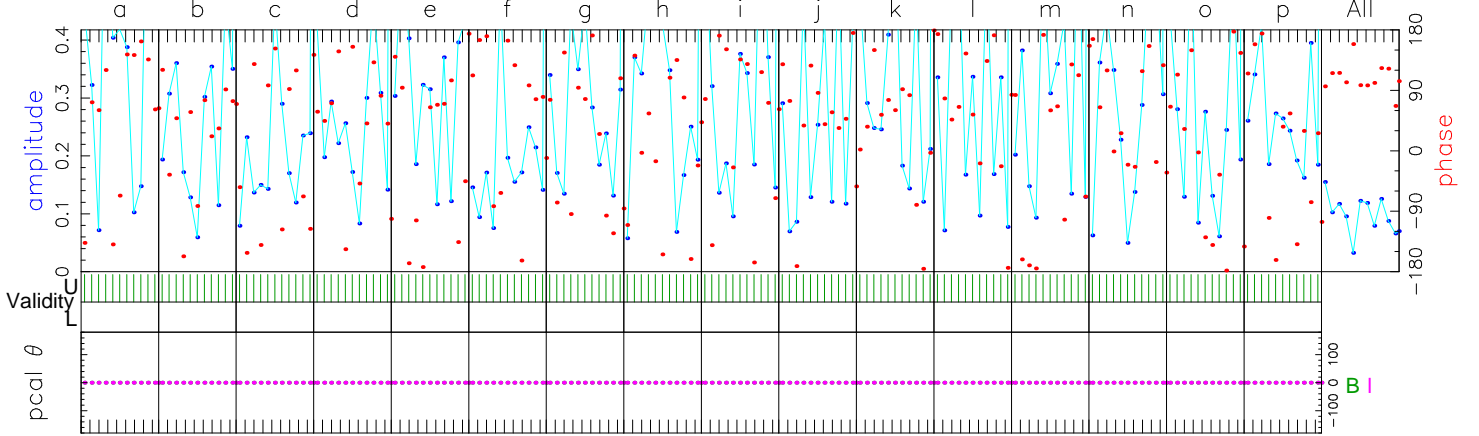


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	229.3
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W15UL	Tracks	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W15UL	Tracks	
Group delay (usec)(sbd)	-1.30397496621E+04			Apriori delay (usec)			-1.30405391037E+04			Resid mbdelay (usec)			8.19159E-03			+/- 1.7E-04			
Sband delay (usec)	-1.30397555257E+04			Apriori clock (usec)			1.7578316E+01			Resid sbdelay (usec)			7.83578E-01			+/- 2.7E-03			
Phase delay (usec)	-1.30405391010E+04			Apriori clockrate (us/s)			1.5147200E-07			Resid phdelay (usec)			2.72450E-06			+/- 5.7E-07			
Delay rate (us/s)	-8.20570068815E-01			Apriori rate (us/s)			-8.20571846093E-01			Resid rate (us/s)			1.77728E-06			+/- 2.1E-09			
Total phase (deg)	-57.5			Apriori accel (us/s/s)			8.34596692581E-05			Resid phase (deg)			84.5			+/- 17.8			
ph/seg (deg)	RMS	Theor.	Amplitude			0.109 +/- 0.017			Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5							
amp/seg (%)	33.3	30.8	Search (2048X64)			0.099			Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)			-1.000 1.000				
ph/frq (deg)	51.1	53.8	Interp.			0.000			Bits/sample: 2x2			SampCntNorm: enabled			mb window (us) -0.016 0.016				
amp/frq (%)	22.7	35.6	Inc. seg. avg.			0.107			Sample rate(MISamp/s): 64			dr window (ns/s)			-0.011 0.011				
	39.8	62.1	Inc. frq. avg.			0.096			Data rate(Mb/s): 2048			nlags: 128 t_cohere infinite			ion window (TEC) 0.00 0.00				

B: az 308.6 el 22.7 pa 41.3 I: az 43.9 el 81.6 pa -134.4 u,v (fr/asec) 6419.757 6995.679 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BI..130G9L Output file: /Exps/c192b/v2/1234/No0205/BI.W.16.130G9L



Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

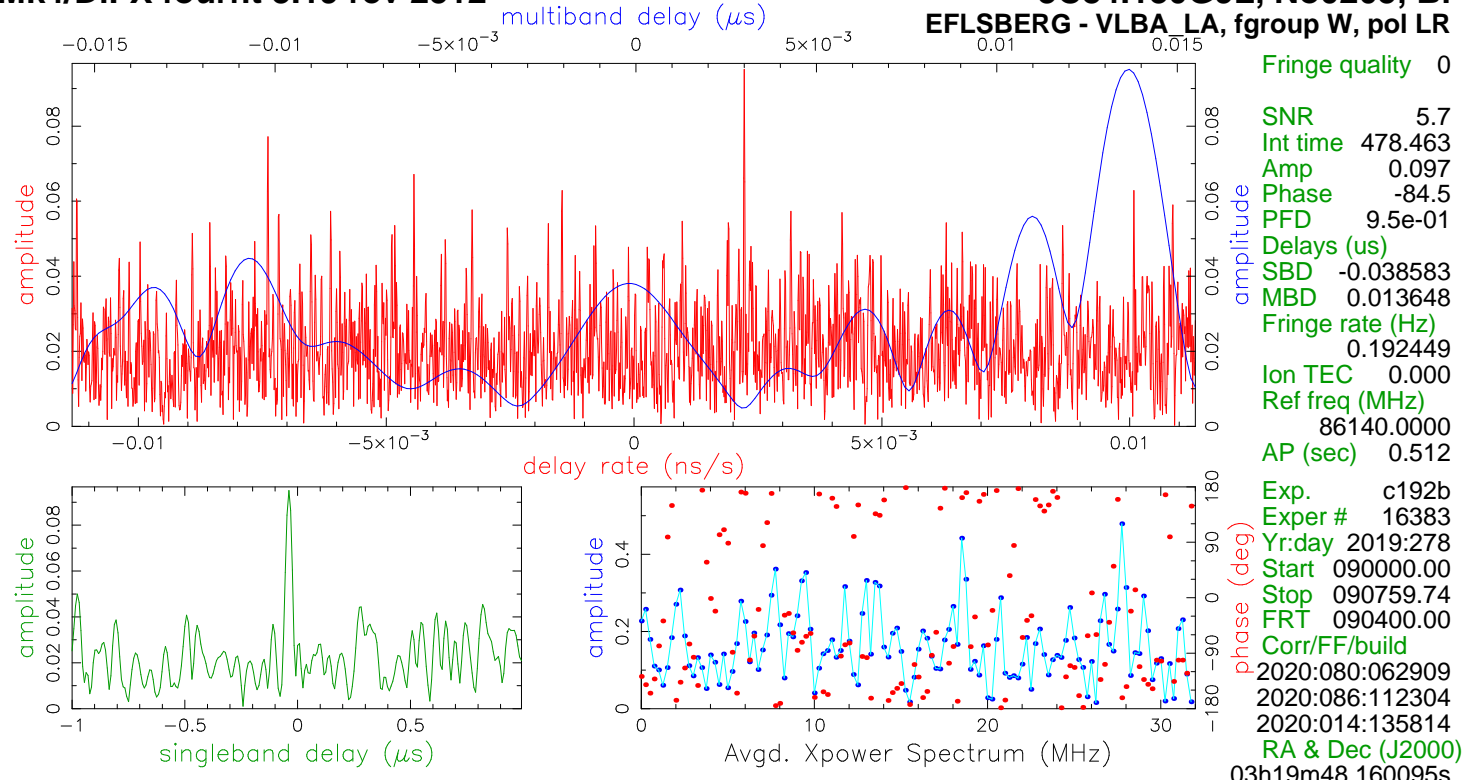


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	134.8	59.7	-169.0	89.5	136.9	139.0	111.8	56.2	122.5	70.8	46.2	85.9	144.5	74.5	151.5	168.2	106.3	Phase
	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	Ampl.
	150.4	110.5	139.0	94.4	15.3	212.9	58.4	177.2	200.4	162.5	1.5	14.7	139.0	73.1	188.9	53.8	200.7	Sbd box
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs
I	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks

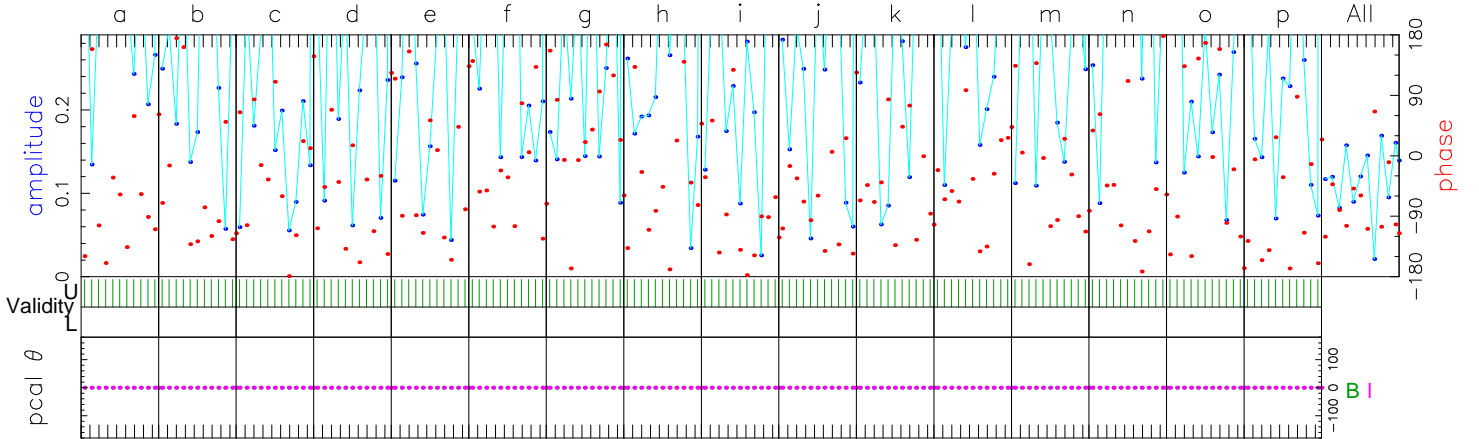
Group delay (usec)(sbd)	-1.30399745913E+04	Apriori delay (usec)	-1.30405391037E+04	Resid mbdelay (usec)	2.01241E-03	+/-	1.9E-04
Sband delay (usec)	-1.30399787882E+04	Apriori clock (usec)	1.7578316E+01	Resid sbdelay (usec)	5.60315E-01	+/-	3.0E-03
Phase delay (usec)	-1.30405391003E+04	Apriori clockrate (us/s)	1.5147200E-07	Resid phdelay (usec)	3.42742E-06	+/-	6.4E-07
Delay rate (us/s)	-8.20582097808E-01	Apriori rate (us/s)	-8.20571846093E-01	Resid rate (us/s)	-1.02517E-05	+/-	2.3E-09
Total phase (deg)	-35.7	Apriori accel (us/s/s)	8.34596692581E-05	Resid phase (deg)	106.3	+/-	19.8

B: az 308.6 el 22.7 pa 41.3 I: az 43.9 el 81.6 pa -134.4 u,v (fr/asec) 6419.757 6995.679 simultaneous interpolator

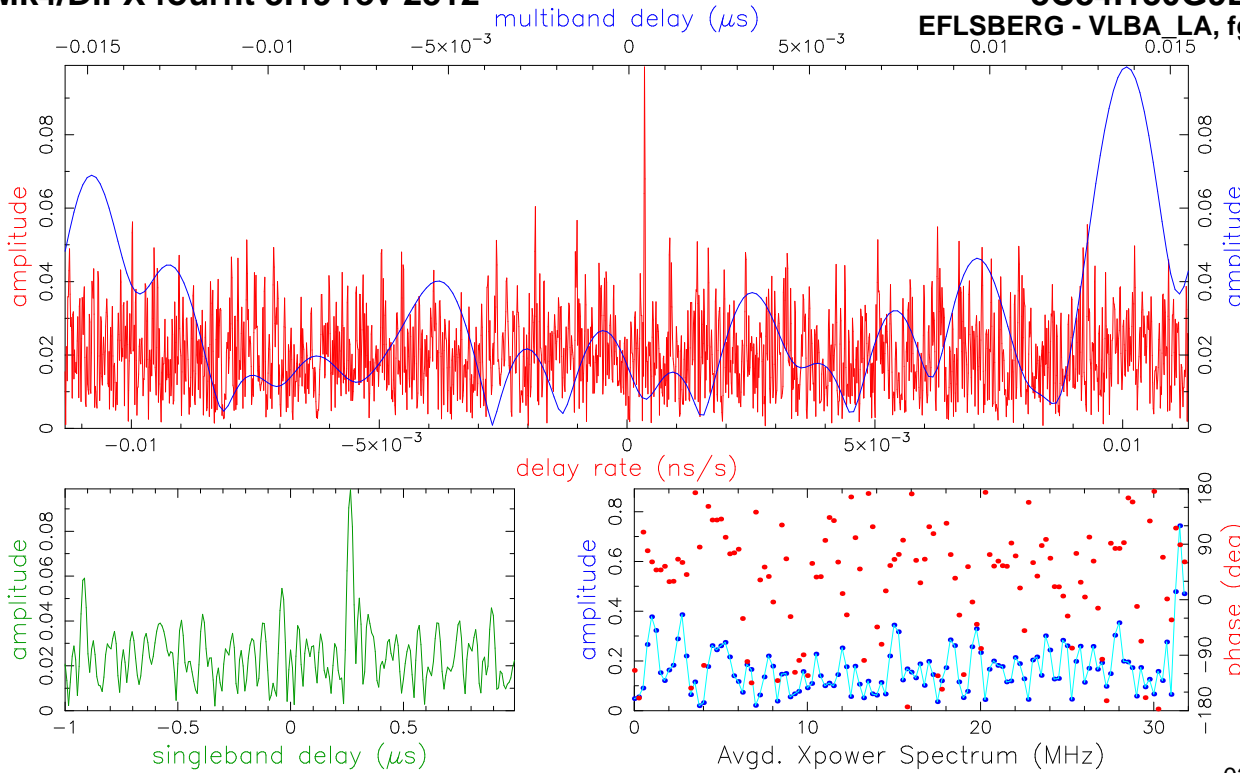
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BI..130G9L Output file: /Exps/c192b/v2/1234/No0205/BI.W.38.130G9L



Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

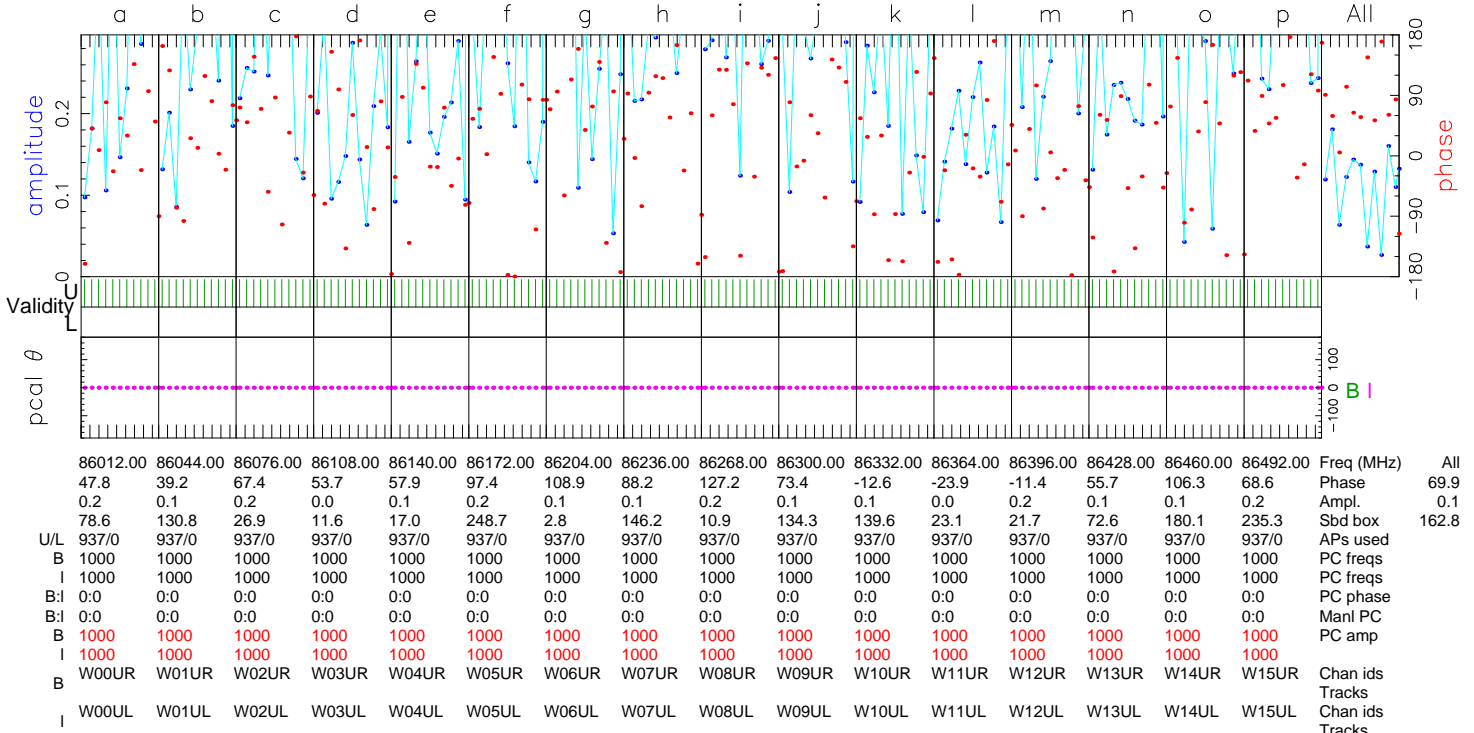


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-100.6	-110.7	-25.8	-98.5	-102.3	-76.2	65.3	-78.5	-116.6	-67.6	-64.1	-27.1	-76.0	-105.9	-130.5	-131.1	Phase	-84.5
	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	Ampl.	0.1
	124.6	251.3	254.8	29.4	20.4	4.8	26.6	25.6	192.3	2.7	59.6	122.2	172.0	165.3	183.0	200.5	Sbd box	124.1
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-1.30405879559E+04			Apriori delay (usec)			-1.30405391037E+04			Resid mbdelay (usec)			1.36478E-02			+/- 1.9E-04		
Sband delay (usec)	-1.30405776867E+04			Apriori clock (usec)			1.7578316E+01			Resid sbdelay (usec)			-3.85830E-02			+/- 3.0E-03		
Phase delay (usec)	-1.30405391064E+04			Apriori clockrate (us/s)			1.5147200E-07			Resid phdelay (usec)			-2.72457E-06			+/- 6.5E-07		
Delay rate (us/s)	-8.20569611947E-01			Apriori rate (us/s)			-8.20571846093E-01			Resid rate (us/s)			2.23415E-06			+/- 2.3E-09		
Total phase (deg)	-226.5			Apriori accel (us/s/s)			8.34596692581E-05			Resid phase (deg)			-84.5			+/- 20.1		
ph/seg (deg)	RMS	Theor.	Amplitude			0.097 +/- 0.017			Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5						
amp/seg (%)	56.4	34.9	Search (2048X64)			0.093			Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)			-1.000 1.000			
ph/frq (deg)	48.6	60.8	Interp.			0.000			Bits/sample: 2x2			SampCntNorm: enabled			mb window (us)		-0.016 0.016	
amp/frq (%)	51.6	40.3	Inc. seg. avg.			0.100			Sample rate(MISamp/s): 64			dr window (ns/s)			-0.011 0.011			
	55.9	70.3	Inc. frq. avg.			0.102			Data rate(Mb/s): 2048			nlags: 128 t_cohere infinite			ion window (TEC)		0.00 0.00	



Fringe quality 0
SNR 5.9
Int time 478.462
Amp 0.099
Phase 69.9
PFD 5.7e-01
Delays (us)
SBD 0.264295
MBD 0.013783
Fringe rate (Hz) 0.030484
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112310
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

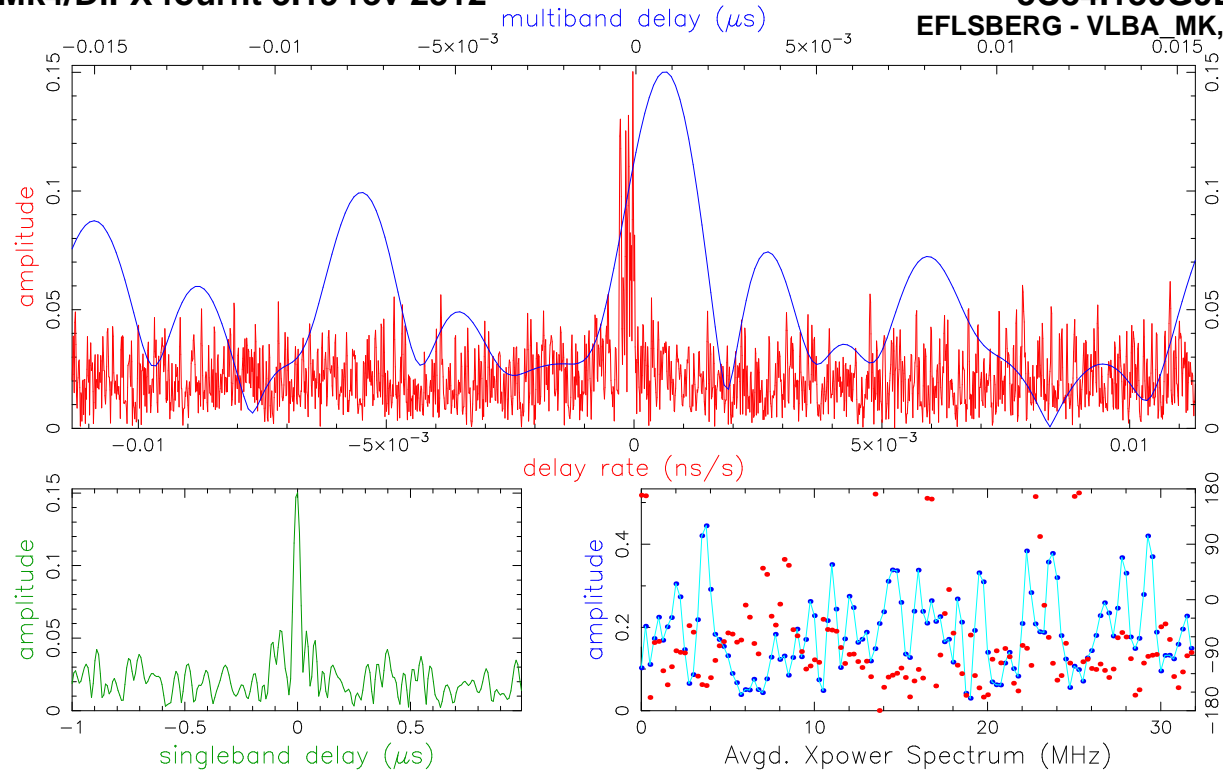


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
47.8	39.2	67.4	53.7	57.9	97.4	108.9	88.2	127.2	73.4	-12.6	-23.9	-11.4	55.7	106.3	68.6	Phase	69.9	
0.2	0.1	0.2	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.2	Ampl.	0.1	
78.6	130.8	26.9	11.6	17.0	248.7	2.8	146.2	10.9	134.3	139.6	23.1	21.7	72.6	180.1	235.3	Sbd box	162.8	
U/L 937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used		
B 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
I 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase		
B:I 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
I 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

Group delay (usec)(sbd)	-1.30402753209E+04	Apriori delay (usec)	-1.30405391037E+04	Resid mbdelay (usec)	1.37828E-02	+/-	1.8E-04
Sband delay (usec)	-1.30402748087E+04	Apriori clock (usec)	1.7578316E+01	Resid sbdelay (usec)	2.64295E-01	+/-	2.9E-03
Phase delay (usec)	-1.30405391015E+04	Apriori clockrate (us/s)	1.5147200E-07	Resid phdelay (usec)	2.25481E-06	+/-	6.2E-07
Delay rate (us/s)	-8.20571492199E-01	Apriori rate (us/s)	-8.20571846093E-01	Resid rate (us/s)	3.53894E-07	+/-	2.3E-09
Total phase (deg)	-72.1	Apriori accel (us/s/s)	8.34596692581E-05	Resid phase (deg)	69.9	+/-	19.4
ph/seg (deg)	RMS 45.8	Theor. 33.6	Amplitude Search (2048X64) 0.097	0.099 +/- 0.017	Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5		
amp/seg (%)	49.4	58.6	Interp. 0.000	0.097	Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000		
ph/frq (deg)	47.4	38.8	Inc. seg. avg. 0.096	0.096	Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016		
amp/frq (%)	64.9	67.6	Inc. frq. avg. 0.103	0.103	Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011		
					ion window (TEC) 0.00 0.00		

B: az 308.6 el 22.7 pa 41.3 I: az 43.9 el 81.6 pa -134.4 u,v (fr/asec) 6419.757 6995.679 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BI..130G9L Output file: /Exps/c192b/v2/1234/No0205/BI.W.80.130G9L

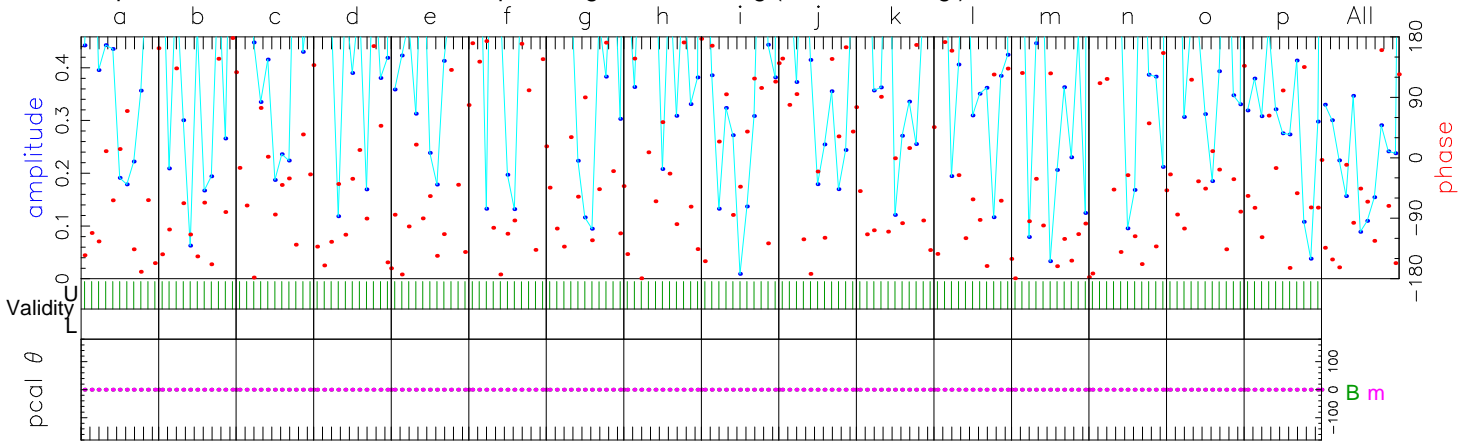


Fringe quality 9

SNR 9.1
Int time 478.224
Amp 0.153
Phase -127.0
PFD 2.4e-11
Delays (us)
SBD -0.003163
MBD 0.000771
Fringe rate (Hz)
-0.001763
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112253
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

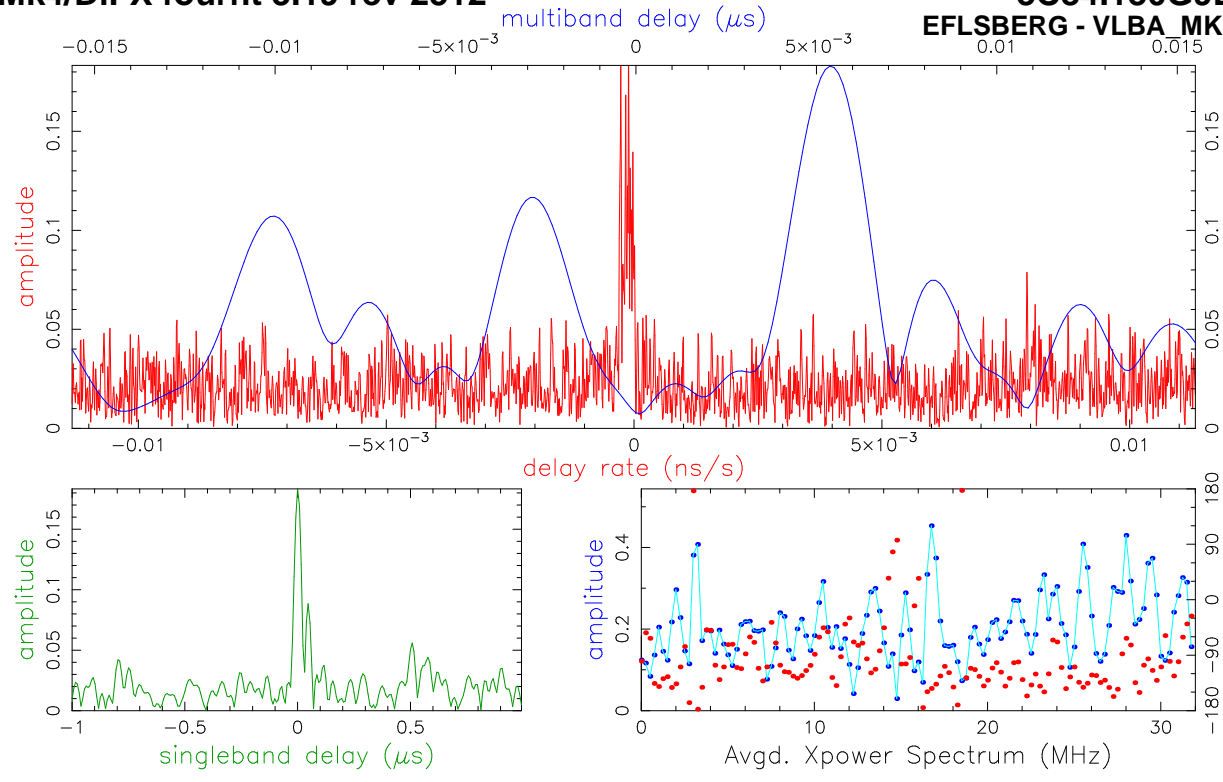
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-112.5	-162.4	-47.8	-130.7	-105.3	-176.0	-72.1	-119.5	146.8	137.5	-102.2	-137.0	-146.0	170.9	-64.3	-56.2	Phase	-127.0
	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	129.3	128.3	128.4	186.5	128.3	128.4	128.0	33.1	178.6	107.5	128.8	128.3	127.9	213.4	129.0	131.0	Sbd box	128.6
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-5.13345175439E+03			Apriori delay (usec)			-5.13345252526E+03			Resid mbdelay (usec)			7.70879E-04			+/- 1.2E-04		
Sband delay (usec)	-5.13345568826E+03			Apriori clock (usec)			1.4226503E+01			Resid sbdelay (usec)			-3.16300E-03			+/- 1.9E-03		
Phase delay (usec)	-5.13345252936E+03			Apriori clockrate (us/s)			-1.9130770E-07			Resid phdelay (usec)			-4.09480E-06			+/- 4.0E-07		
Delay rate (us/s)	-1.61528169840E+00			Apriori rate (us/s)			-1.61528167793E+00			Resid rate (us/s)			-2.04681E-08			+/- 1.5E-09		
Total phase (deg)	-316.5			Apriori accel (us/s/s)			5.97696536040E-05			Resid phase (deg)			-127.0			+/- 12.5		

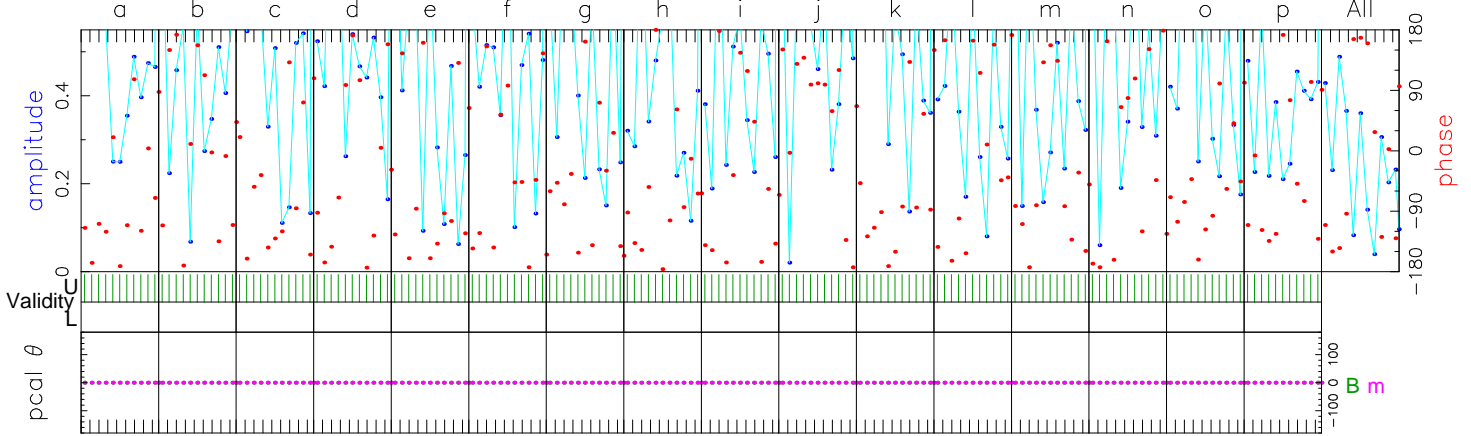
ph/seg (deg) RMS Theor. Amplitude 0.153 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.5 21.7 Search (2048X64) 0.147 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 75.4 37.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 56.1 25.1 Inc. seg. avg. 0.212 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 59.4 43.8 Inc. frq. avg. 0.205 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 m: az 52.2 el 37.5 pa -95.9 u,v (fr/asec) 12459.642 6912.914 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bm...130G9L Output file: /Exps/c192b/v2/1234/No0205/Bm.W.23.130G9L



Fringe quality 9
SNR 11.0
Int time 478.223
Amp 0.183
Phase -135.6
PFD 2.8e-19
Delays (us)
SBD 0.001121
MBD 0.005414
Fringe rate (Hz)
-0.022665
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112249
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

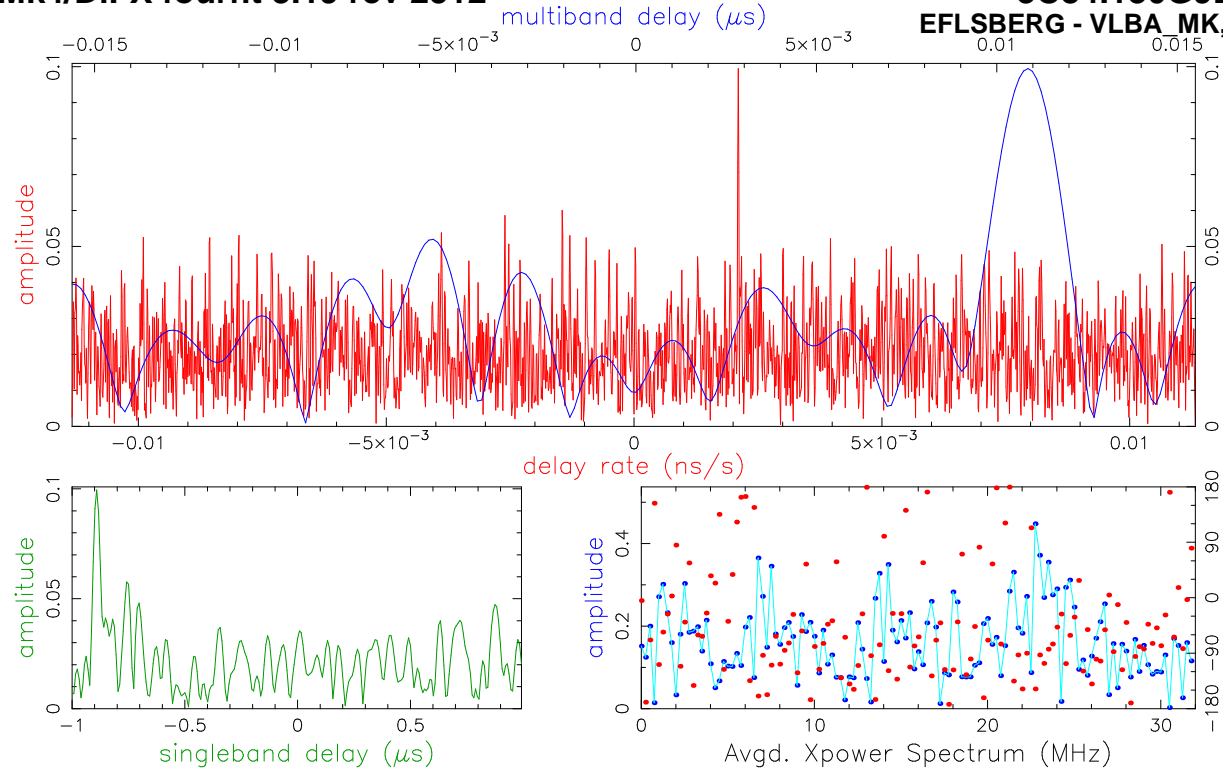


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-117.1	-148.4	-76.6	-143.1	-136.4	175.8	-69.8	-121.3	-162.0	133.4	-101.0	-168.7	-130.5	164.6	-71.0	-110.4		Phase	-135.6
	0.3	0.2	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.4	0.2	0.2	0.3	0.3	0.2		Ampl.	0.2
	129.3	134.8	83.9	129.5	129.0	250.1	127.7	128.6	222.4	129.4	127.5	140.7	128.9	128.6	128.4	130.1		Sbd box	129.1
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	

Group delay (usec)(sbd) -5.1334471159E+03 Apriori delay (usec) -5.13345252526E+03 Resid mbdelay (usec) 5.41367E-03 +/- 9.8E-05
 Sband delay (usec) -5.13345140426E+03 Apriori clock (usec) 1.4226503E+01 Resid sbdelay (usec) 1.12100E-03 +/- 1.6E-03
 Phase delay (usec) -5.13345252964E+03 Apriori clockrate (us/s) -1.9130770E-07 Resid phdelay (usec) -4.37330E-06 +/- 3.4E-07
 Delay rate (us/s) -1.61528194104E+00 Apriori rate (us/s) -1.61528167793E+00 Resid rate (us/s) -2.63114E-07 +/- 1.2E-09
 Total phase (deg) -325.1 Apriori accel (us/s/s) 5.97696536040E-05 Resid phase (deg) -135.6 +/- 10.5

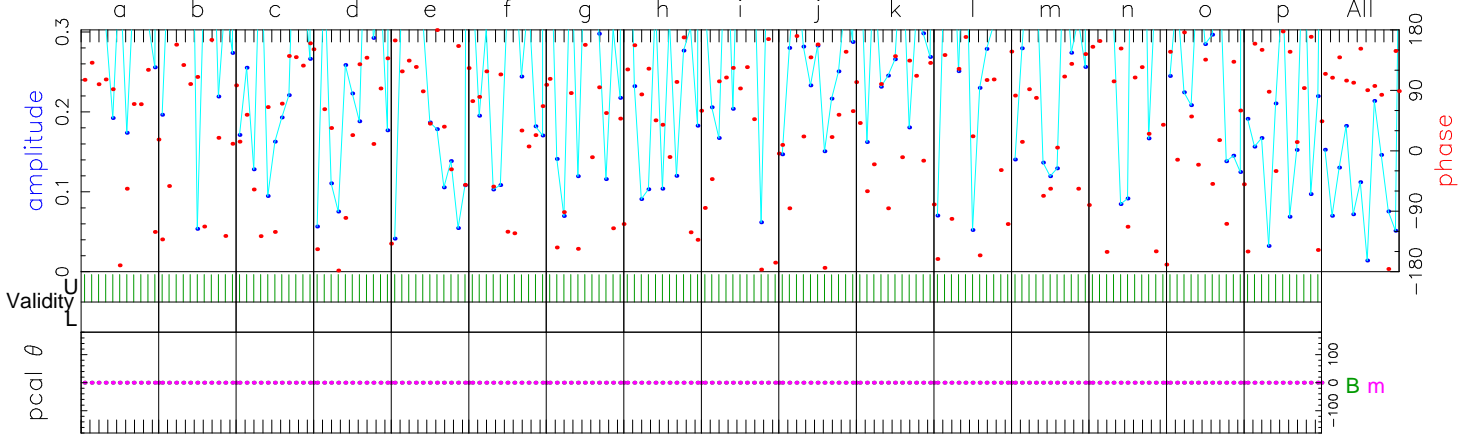
RMS Theor. Amplitude 0.183 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 73.5 18.1 Search (2048X64) 0.178 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 85.5 31.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 46.8 20.9 Inc. seg. avg. 0.249 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 54.2 36.5 Inc. frq. avg. 0.239 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 m: az 52.2 el 37.5 pa -95.9 u,v (fr/asec) 12459.642 6912.914 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bm...130G9L Output file: /Exps/c192b/v2/1234/No0205/Bm.W.3.130G9L



Fringe quality 0
SNR 5.9
Int time 478.224
Amp 0.101
Phase 115.3
PFD 5.0e-01
Delays (us)
SBD -0.891090
MBD 0.010846
Fringe rate (Hz) 0.181346
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112259
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

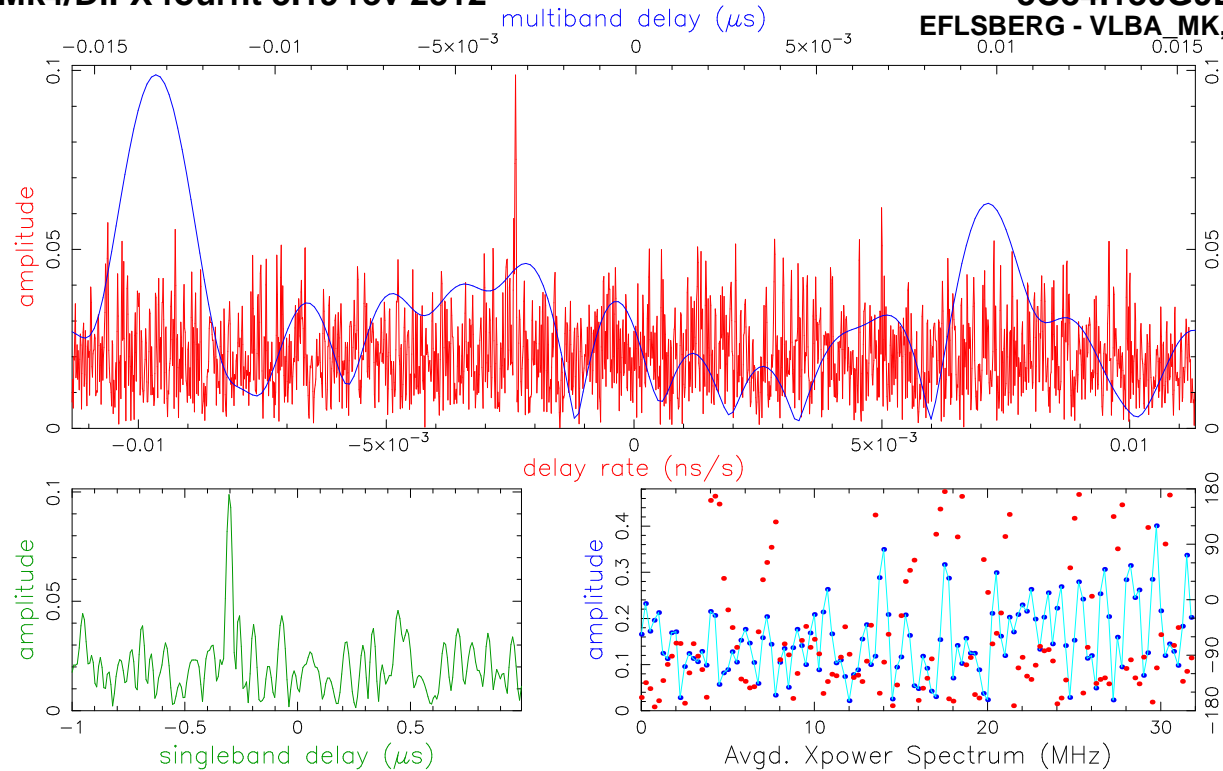


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
110.9	157.5	138.9	92.0	110.9	60.1	104.7	119.6	125.1	111.4	35.8	-173.1	78.0	133.5	17.0	154.0	154.0	Phase	115.3
0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	Ampl.	0.1
16.6	97.8	152.4	162.4	95.1	182.3	112.6	73.2	253.7	153.8	198.3	39.0	182.0	248.6	128.5	129.0	129.0	Sbd box	14.9
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

Group delay (usec)(sbd) -5.13434792936E+03 Apriori delay (usec) -5.13345252526E+03 Resid mbdelay (usec) 1.08459E-02 +/- 1.8E-04
 Sband delay (usec) -5.13434361526E+03 Apriori clock (usec) 1.4226503E+01 Resid sbdelay (usec) -8.91090E-01 +/- 2.9E-03
 Phase delay (usec) -5.13345252155E+03 Apriori clockrate (us/s) -1.9130770E-07 Resid phdelay (usec) 3.71856E-06 +/- 6.2E-07
 Delay rate (us/s) -1.61527957268E+00 Apriori rate (us/s) -1.61528167793E+00 Resid rate (us/s) 2.10525E-06 +/- 2.2E-09
 Total phase (deg) -74.2 Apriori accel (us/s/s) 5.97696536040E-05 Resid phase (deg) 115.3 +/- 19.3

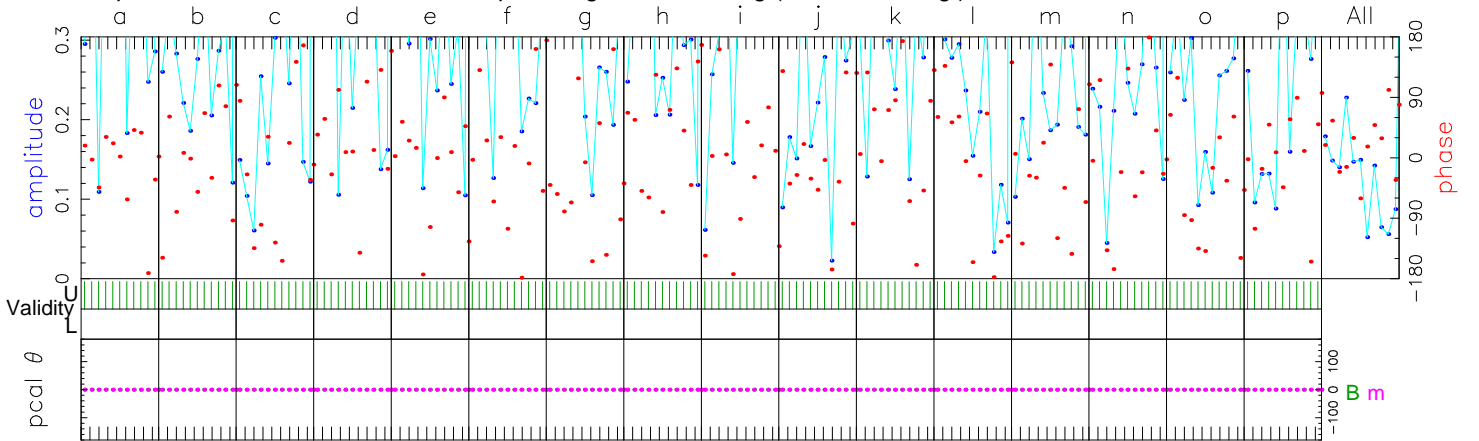
ph/seg (deg) RMS Theor. Amplitude 0.101 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.3 33.4 Search (2048X64) 0.097 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 60.4 58.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 46.7 38.5 Inc. seg. avg. 0.097 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 63.4 67.2 Inc. frq. avg. 0.101 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 m: az 52.2 el 37.5 pa -95.9 u,v (fr/asec) 12459.642 6912.914 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bm...130G9L Output file: /Exps/c192b/v2/1234/No0205/Bm.W.45.130G9L



Fringe quality 0
SNR 6.0
Int time 478.223
Amp 0.101
Phase 9.9
PFD 4.9e-01
Delays (us)
SBD -0.302644
MBD -0.013269
Fringe rate (Hz)
-0.205983
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112306
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



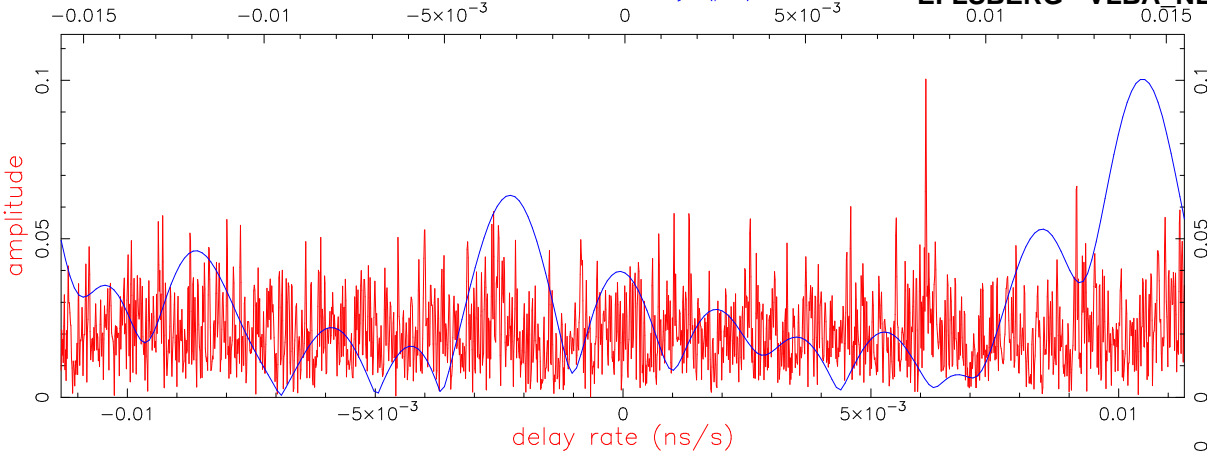
86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	86492.00	86492.00	Freq (MHz)	All												
10.8	30.0	-162.4	19.6	19.3	-2.3	-71.9	8.6	18.0	-22.0	73.9	63.7	-50.6	-1.2	-60.3	16.2	16.2	16.2	Phase	9.9												
0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	Ampl.	0.1												
90.4	13.8	124.6	21.7	89.1	13.1	251.5	190.8	156.5	187.8	87.2	212.3	72.9	41.0	32.0	95.1	95.1	95.1	Sbd box	90.3												
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used													
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs													
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs													
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase													
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp													
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp													
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W15UR	Chan ids													
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W15UL	Tracks													
Group delay (usec)(sbd)		-5.13374704458E+03					Apriori delay (usec)					-5.13345252526E+03					Resid mbdelay (usec)					-1.32693E-02					+/- 1.8E-04				
Sband delay (usec)		-5.13375516976E+03					Apriori clock (usec)					1.4226503E+01					Resid sbdelay (usec)					-3.02644E-01					+/- 2.9E-03				
Phase delay (usec)		-5.13345252495E+03					Apriori clockrate (us/s)					-1.9130770E-07					Resid phdelay (usec)					3.18084E-07					+/- 6.2E-07				
Delay rate (us/s)		-1.61528406918E+00					Apriori rate (us/s)					-1.61528167793E+00					Resid rate (us/s)					-2.39126E-06					+/- 2.2E-09				
Total phase (deg)		-179.6					Apriori accel (us/s/s)					5.97696536040E-05					Resid phase (deg)					9.9					+/- 19.2				

ph/seg (deg)	43.8	33.3	Search (2048X64)	0.098	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	60.5	58.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	62.1	38.5	Inc. seg. avg.	0.111	Bits/sample: 2x2	Sample rate(MISamp/s): 64	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	78.3	67.2	Inc. frq. avg.	0.103	Data rate(Mb/s): 2048	nlags: 128	t_cohere infinite	ion window (TEC)	0.00	0.00

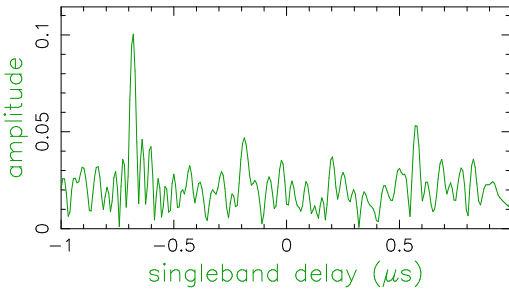
B: az 308.6 el 22.7 pa 41.3 m: az 52.2 el 37.5 pa -95.9 u,v (fr/asec) 12459.642 6912.914 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bm..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bm.W.67.130G9L

multiband delay (μ s)

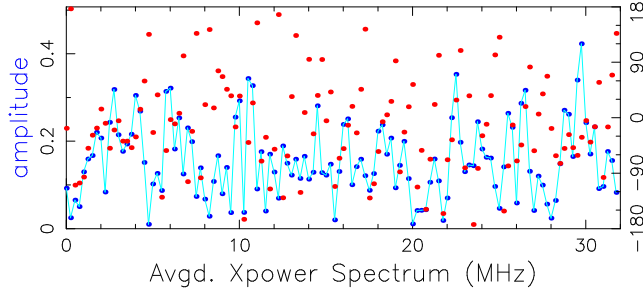
Fringe quality 0



SNR 6.1
Int time 477.845
Amp 0.114
Phase -67.1
PFD 3.1e-01
Delays (us)
SBD -0.681749
MBD 0.014300
Fringe rate (Hz)
0.527392
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

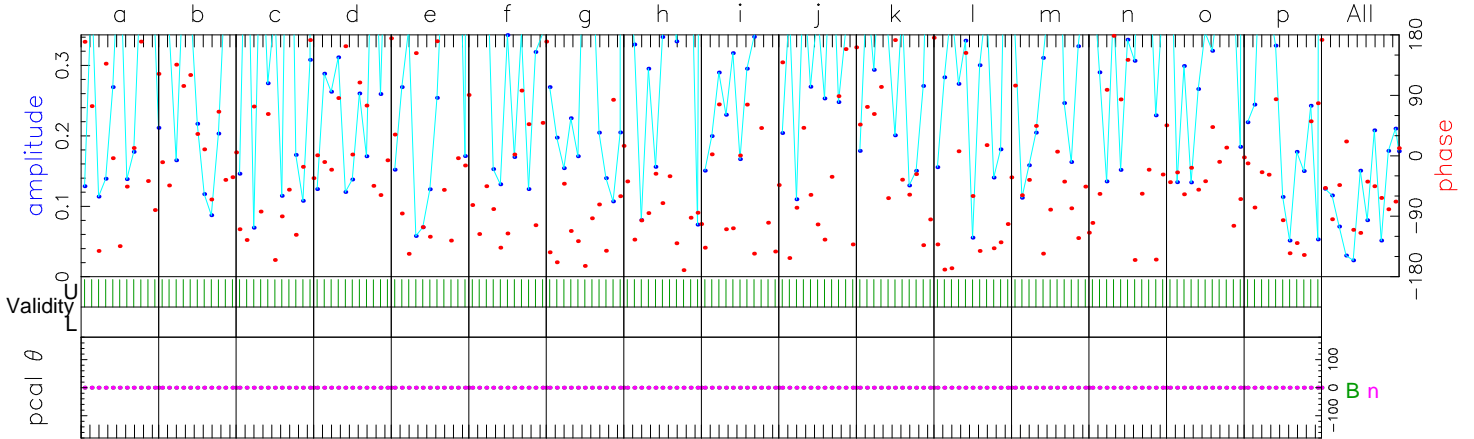


delay rate (ns/s)



Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112250
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



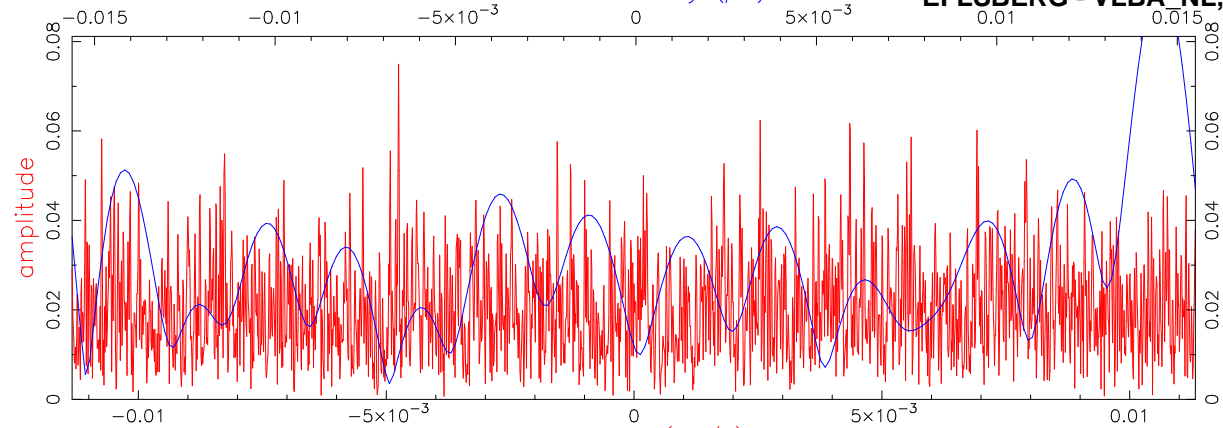
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-85.8	7.1	-97.0	-2.3	-78.2	-72.4	-118.3	-87.8	-100.6	-116.2	-26.6	-129.0	-47.0	-84.4	-30.4	-26.2		Phase	-67.1				
	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.2	0.2	0.1	0.3	0.1		Ampl.	0.1				
	38.6	48.6	67.1	167.5	46.8	102.0	83.6	88.5	177.0	104.4	133.1	146.4	175.5	233.2	41.3	147.7		Sbd box	41.7				
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids					
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-1.31488190615E+04															Apriori delay (usec)	-1.31481458611E+04	Resid mbdelay (usec)	1.42996E-02	+/-	1.8E-04
Sband delay (usec)			-1.31488276096E+04															Apriori clock (usec)	-9.7046070E+00	Resid sbdelay (usec)	-6.81749E-01	+/-	2.8E-03
Phase delay (usec)			-1.31481458633E+04															Apriori clockrate (us/s)	-3.3422351E-07	Resid phdelay (usec)	-2.16385E-06	+/-	6.1E-07
Delay rate (us/s)			-5.90248523399E-01															Apriori rate (us/s)	-5.90254645901E-01	Resid rate (us/s)	6.12250E-06	+/-	2.2E-09
Total phase (deg)					-238.7													Apriori accel (us/s/s)	7.77924213213E-05	Resid phase (deg)	-67.1	+/-	18.9

	RMS	Theor.	Amplitude	0.114 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	37.1	32.8	Search (2048X64)	0.097	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	64.9	57.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	43.8	37.9	Inc. seg. avg.	0.110	Sample rate(MISamp/s): 64	dr window (ns/s) -0.011 0.011
amp/frq (%)	65.2	66.1	Inc. frq. avg.	0.124	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 128	t_cohere infinite

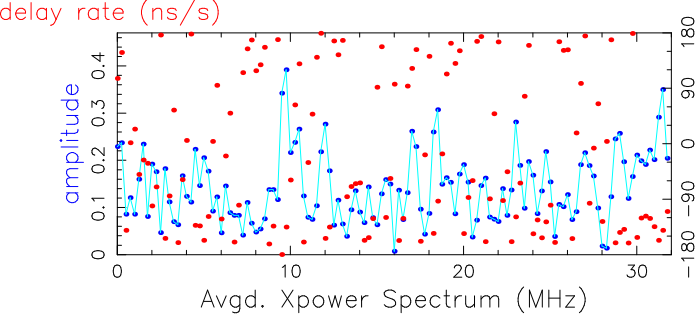
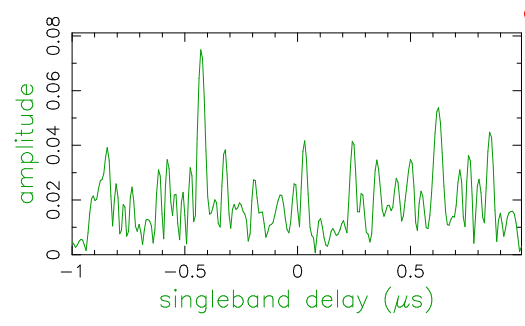
B: az 308.6 el 22.7 pa 41.3 n: az 270.2 el 84.8 pa 84.7 u,v (fr/asec) 4648.264 6078.346 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bn..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bn.W.13.130G9L

multiband delay (μ s)

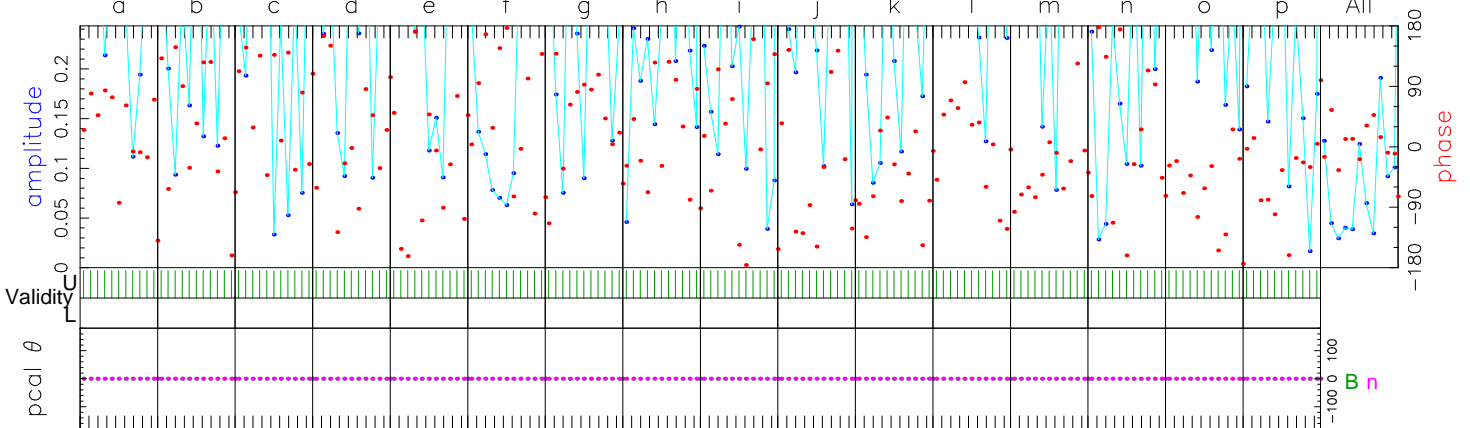


Fringe quality 0
SNR 4.5
Int time 477.844
Amp 0.081
Phase 2.1
PFD 1.0e+00
Delays (us)
SBD -0.427689
MBD -0.016113
Fringe rate (Hz)
-0.409868
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112257
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"



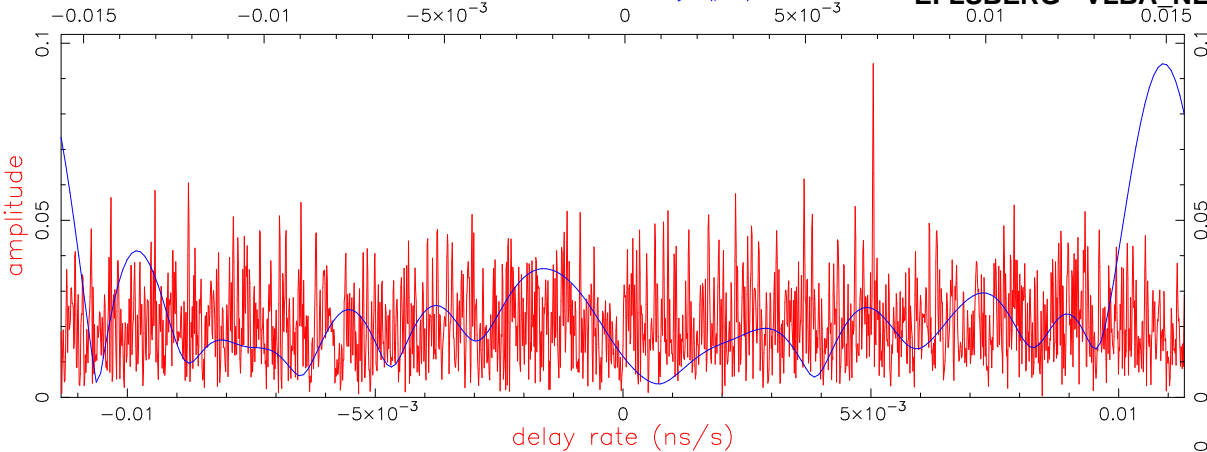
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



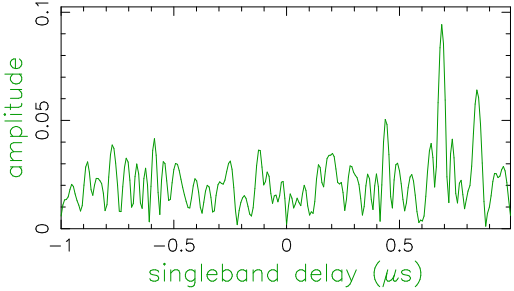
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All						
	47.0	69.6	23.3	4.9	-87.9	69.0	68.4	39.0	40.5	-131.5	-47.9	33.6	-44.3	-47.9	-52.5	-38.5	Phase	2.1						
	0.3	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.2	0.2	0.3	0.0	0.2	0.2	Ampl.	0.1						
	127.4	105.6	60.0	176.1	251.9	218.5	149.9	111.1	63.1	82.8	155.1	90.6	74.1	157.6	74.2	120.4	Sbd box	74.3						
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used							
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs							
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs							
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase							
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp							
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp							
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids							
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks							
																	Chan ids							
																	Tracks							
Group delay (usec)(sbd)			-1.31485682244E+04														Apriori delay (usec)	-1.31481458611E+04	Resid mbdelay (usec)	-1.61133E-02	+/-	2.4E-04		
Sband delay (usec)			-1.31485735506E+04														Apriori clock (usec)	-9.7046070E+00	Resid sbdelay (usec)	-4.27689E-01	+/-	3.8E-03		
Phase delay (usec)			-1.31481458610E+04														Apriori clockrate (us/s)	-3.3422351E-07	Resid phdelay (usec)	6.92689E-08	+/-	8.2E-07		
Delay rate (us/s)			-5.90259404063E-01														Apriori rate (us/s)	-5.90254645901E-01	Resid rate (us/s)	-4.75816E-06	+/-	3.0E-09		
Total phase (deg)			-169.5														Apriori accel (us/s/s)	7.77924213213E-05	Resid phase (deg)	2.1	+/-	25.4		
ph/seg (deg)	RMS	Theor.															Amplitude	0.081 +/- 0.018	Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5		
amp/seg (%)	27.7	44.0															Search (2048X64)	0.094	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000	
ph/frq (deg)	67.8	76.9															Interp.	0.000	Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.016 0.016
amp/frq (%)	64.1	50.9															Inc. seg. avg.	0.068	Sample rate(MISamp/s): 64			dr window (ns/s)	-0.011 0.011	
	112.3	88.8															Inc. frq. avg.	0.090	Data rate(Mb/s): 2048			ion window (TEC)	0.00 0.00	
																			nlags: 128			t_cohere infinite		

multiband delay (μ s)

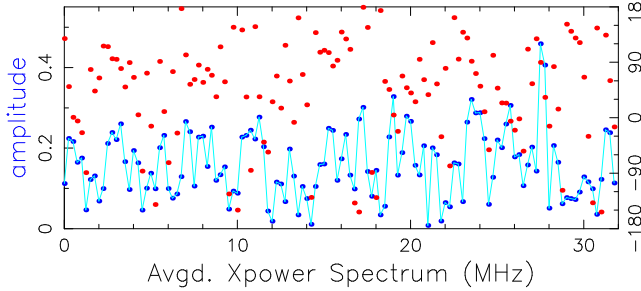


Fringe quality 0

SNR 5.6
Int time 477.844
Amp 0.102
Phase -14.6
PFD 9.9e-01
Delays (us)
SBD 0.687968
MBD 0.014926
Fringe rate (Hz)
0.435733
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

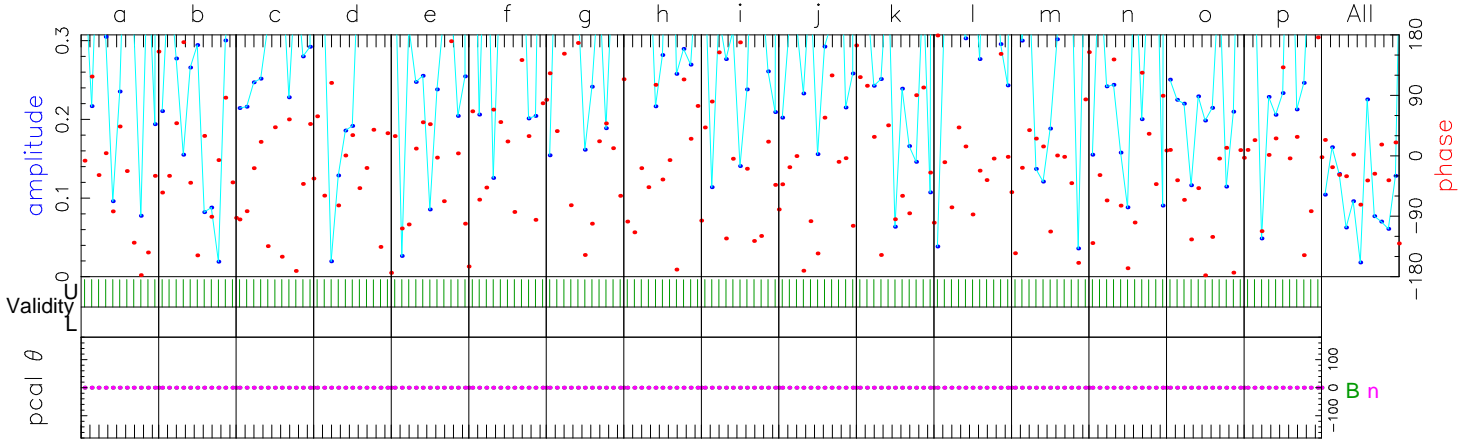


delay rate (ns/s)



Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112304
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



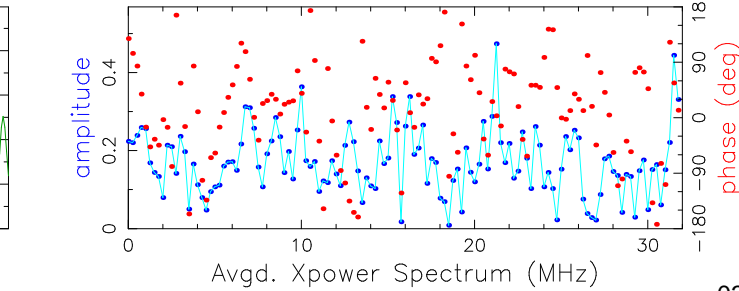
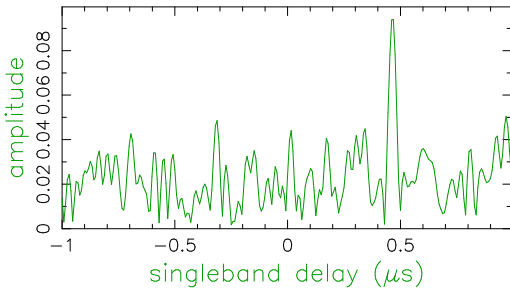
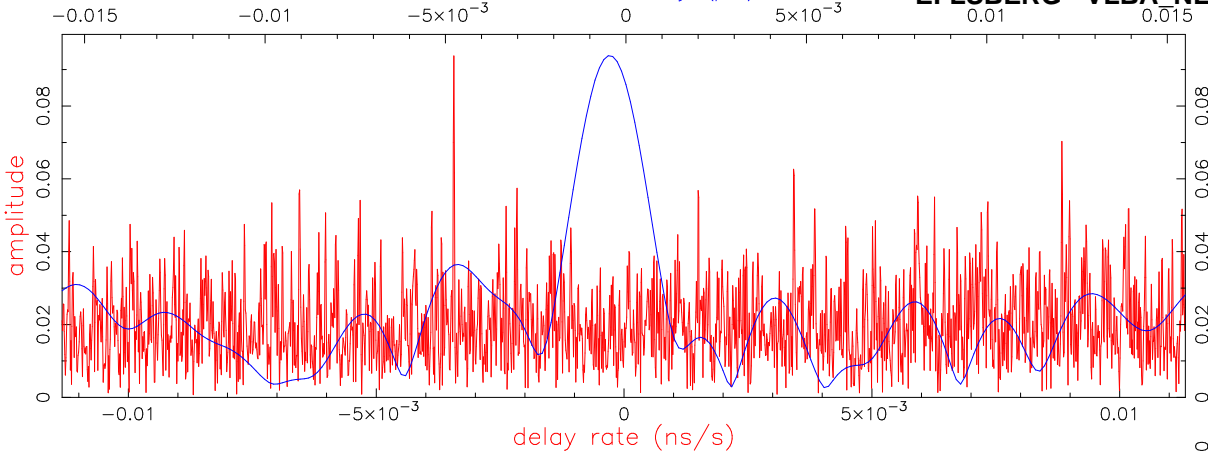
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-32.9	-29.9	-51.4	-2.8	-20.9	42.2	4.9	-22.6	-77.2	-27.9	81.6	-22.7	-2.8	-50.7	-29.4	-1.8		Phase	-14.6
	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1		Ampl.	0.1
	246.2	228.2	160.4	117.0	40.6	215.3	236.7	253.8	139.7	229.4	255.0	141.4	240.6	200.8	153.5	203.3		Sbd box	217.1
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	
																		Chan ids	
																		Tracks	
Group delay (usec)(sbd)	-1.31474434349E+04			Apriori delay (usec)			-1.31481458611E+04			Resid mbdelay (usec)			1.49262E-02			+/- 1.9E-04			
Sband delay (usec)	-1.31474578926E+04			Apriori clock (usec)			-9.7046070E+00			Resid sbdelay (usec)			6.87968E-01			+/- 3.1E-03			
Phase delay (usec)	-1.31481458616E+04			Apriori clockrate (us/s)			-3.3422351E-07			Resid phdelay (usec)			-4.70255E-07			+/- 6.6E-07			
Delay rate (us/s)	-5.90249587478E-01			Apriori rate (us/s)			-5.90254645901E-01			Resid rate (us/s)			5.05842E-06			+/- 2.4E-09			
Total phase (deg)	-186.2			Apriori accel (us/s/s)			7.77924213213E-05			Resid phase (deg)			-14.6			+/- 20.3			
ph/seg (deg)	RMS	Theor.	Amplitude		0.102 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000				
amp/seg (%)	28.7	35.2	Search (2048X64)		0.093		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016 0.016						
ph/frq (deg)	59.6	61.5	Interp.		0.000		Sample rate(MISamp/s): 64				dr window (ns/s)		-0.011 0.011						
amp/frq (%)	38.7	40.7	Inc. seg. avg.		0.095		Data rate(Mb/s): 2048		nlags: 128		ion window (TEC)		0.00 0.00						
	45.7	71.0	Inc. frq. avg.		0.096														

multiband delay (μ s)

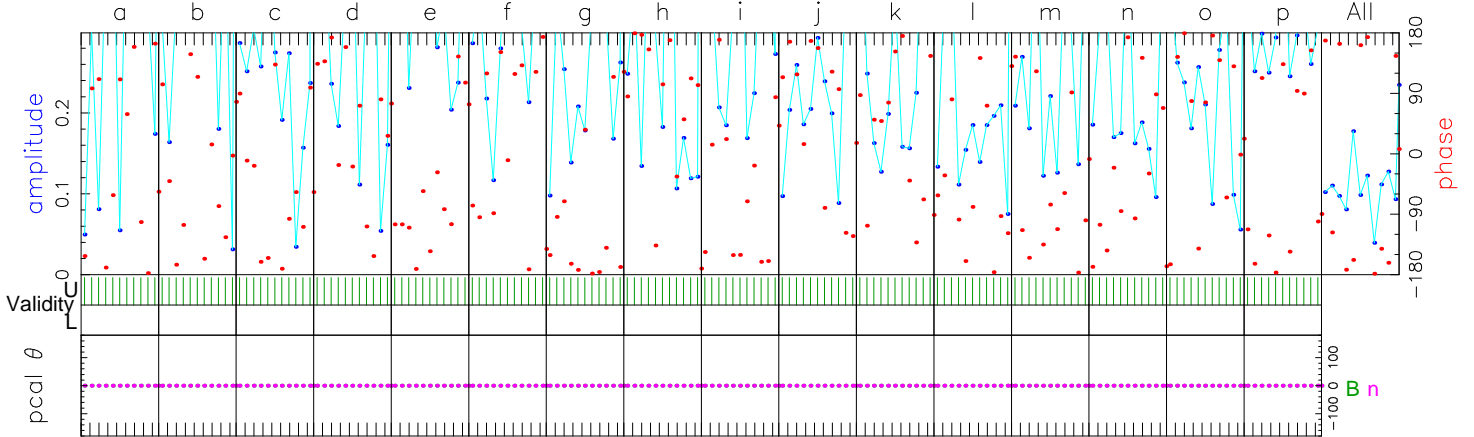
Fringe quality 0

SNR 5.7
 Int time 477.845
 Amp 0.100
 Phase -172.3
 PFD 9.1e-01
 Delays (us)
 SBD 0.464924
 MBD -0.000400
 Fringe rate (Hz)
 -0.296341
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192b
 Exper # 16383
 Yr:day 2019:278
 Start 090000.00
 Stop 090759.74
 FRT 090400.00
 Corr/FF/build
 2020:080:062909
 2020:086:112309
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"



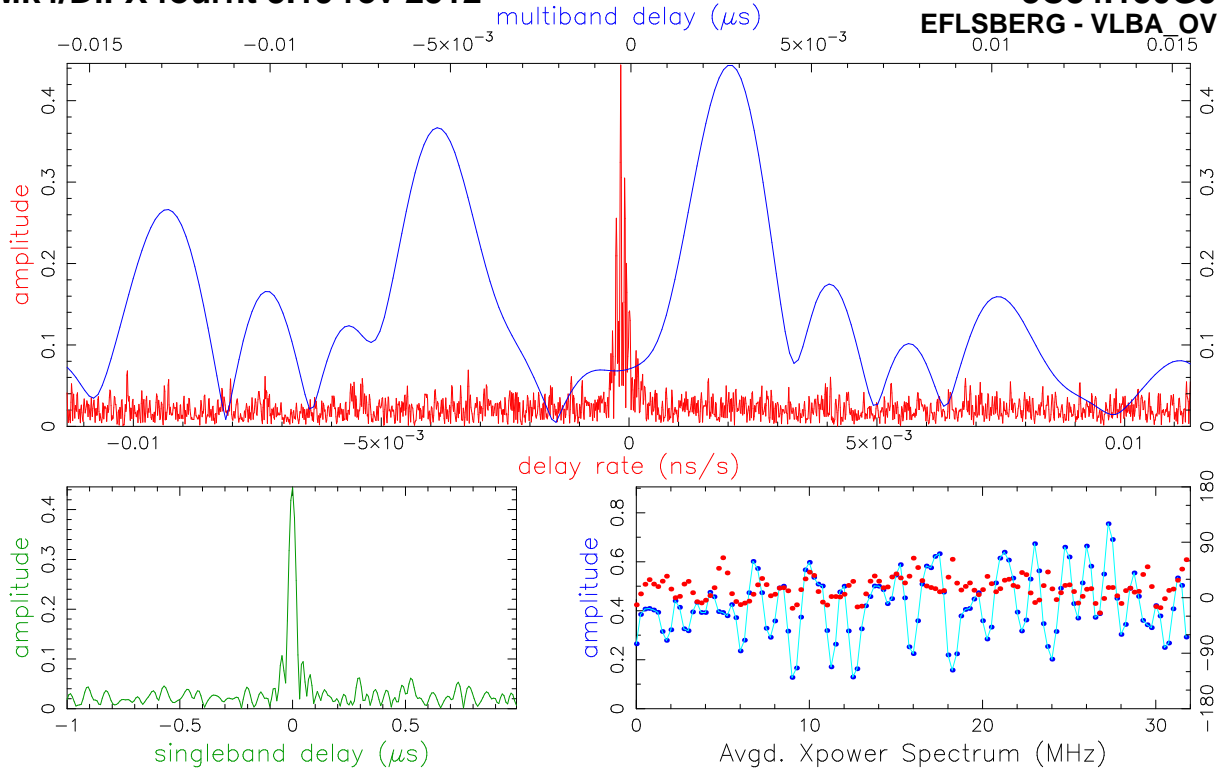
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	
Group delay (usec)(sbd)		-1.31476775116E+04																	
Sband delay (usec)		-1.31476809376E+04																	
Phase delay (usec)		-1.31481458667E+04																	
Delay rate (us/s)		-5.90258086130E-01																	
Total phase (deg)					-343.9														
Apriori delay (usec)																			
Apriori clock (usec)																			
Apriori clockrate (us/s)																			
Apriori rate (us/s)																			
Apriori accel (us/s/s)																			
Resid mbdelay (usec)																			
Resid sbdelay (usec)																			
Resid phdelay (usec)																			
Resid rate (us/s)																			
Resid phase (deg)																			
PCal mode: MANUAL, MANUAL																			
PCal rate: 0.000E+00, 0.000E+00 (us/s)																			
Bits/sample: 2x2																			
Sample rate(MISamp/s): 64																			
Data rate(Mb/s): 2048																			
nlags: 128																			
t_cohere infinite																			
ion window (TEC)																			
sb window (us)																		-1.000	1.000
mb window (us)																		-0.016	0.016
dr window (ns/s)																		-0.011	0.011
ion TEC																		0.00	0.00

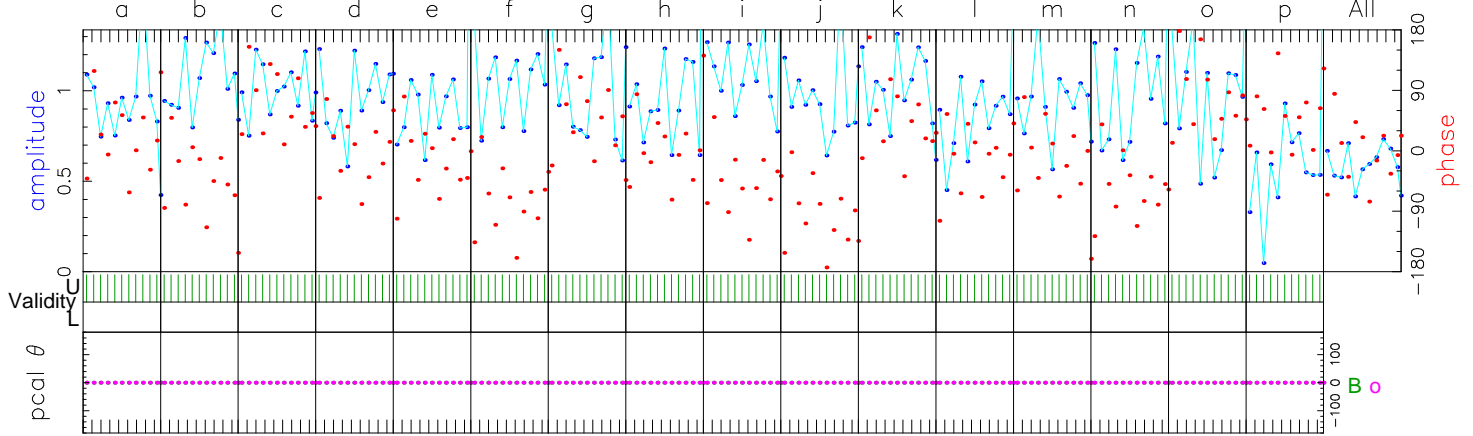
B: az 308.6 el 22.7 pa 41.3 n: az 270.2 el 84.8 pa 84.7 u,v (fr/asec) 4648.264 6078.346 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bn..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bn.W.77.130G9L



Fringe quality 5
 SNR 26.6
 Int time 476.370
 Amp 0.446
 Phase -9.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.001644
 MBD 0.002729
 Fringe rate (Hz) -0.014267
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192b
 Exper # 16383
 Yr:day 2019:278
 Start 090000.00
 Stop 090759.74
 FRT 090400.00
 Corr/FF/build
 2020:080:062909
 2020:086:112250
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

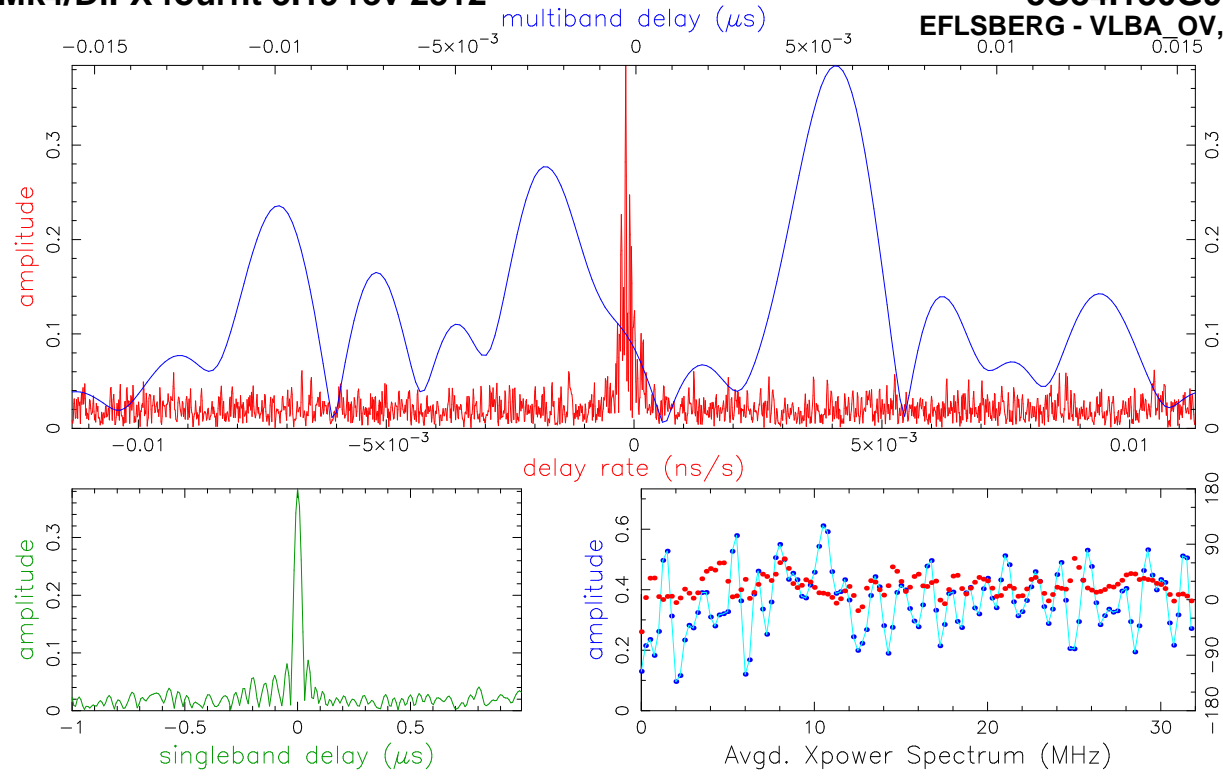


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
17.4	-42.8	66.5	-7.4	-15.7	-85.7	50.7	0.5	-53.0	-91.6	40.8	-22.2	-14.0	-68.4	71.5	43.6	Phase	-9.9	
0.6	0.8	0.7	0.6	0.8	0.7	0.7	0.7	0.8	0.7	0.6	0.7	0.6	0.7	0.7	0.4	Ampl.	0.7	
129.4	128.5	128.0	128.6	128.4	128.7	128.6	129.3	128.6	128.7	128.9	129.1	128.6	128.7	128.6	128.9	Sbd box	128.8	
UL 937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used		
B 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase		
B:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

Group delay (usec)(sbd) -1.25161163313E+04 Apriori delay (usec) -1.25161190599E+04 Resid mbdelay (usec) 2.72862E-03 +/- 4.1E-05
 Sband delay (usec) -1.25161207044E+04 Apriori clock (usec) 1.5642166E-01 Resid sbdelay (usec) -1.64450E-03 +/- 6.5E-04
 Phase delay (usec) -1.25161190602E+04 Apriori clockrate (us/s) -2.0098100E-07 Resid phdelay (usec) -3.19765E-07 +/- 1.4E-07
 Delay rate (us/s) -1.00762846395E+00 Apriori rate (us/s) -1.00762829832E+00 Resid rate (us/s) -1.65628E-07 +/- 5.0E-10
 Total phase (deg) -304.5 Apriori accel (us/s/s) 7.90541582435E-05 Resid phase (deg) -9.9 +/- 4.3

ph/seg (deg) RMS Theor. Amplitude 0.446 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.6 7.5 Search (2048X64) 0.436 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.6 13.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 54.4 8.6 Inc. seg. avg. 0.598 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.7 15.0 Inc. frq. avg. 0.677 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 o: az 68.0 el 74.1 pa -98.6 u,v (fr/asec) 7844.423 6540.056 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bo..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bo.W.11.130G9L

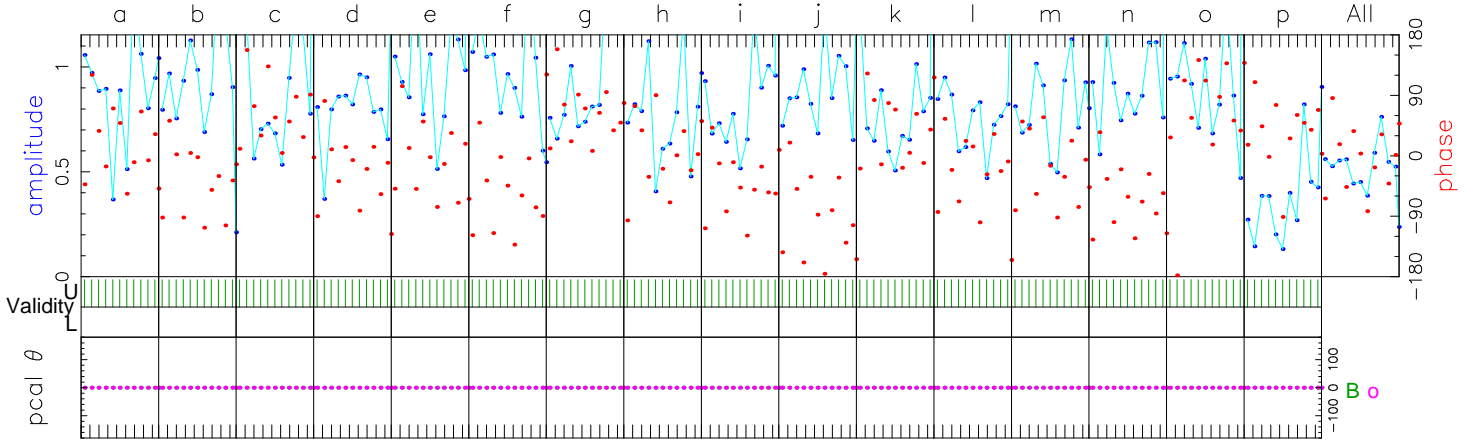


Fringe quality 5

SNR 22.9
Int time 476.371
Amp 0.384
Phase -5.8
PFD 0.0e+00
Delays (us)
SBD 0.000653
MBD 0.005543
Fringe rate (Hz)
-0.014294
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112255
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

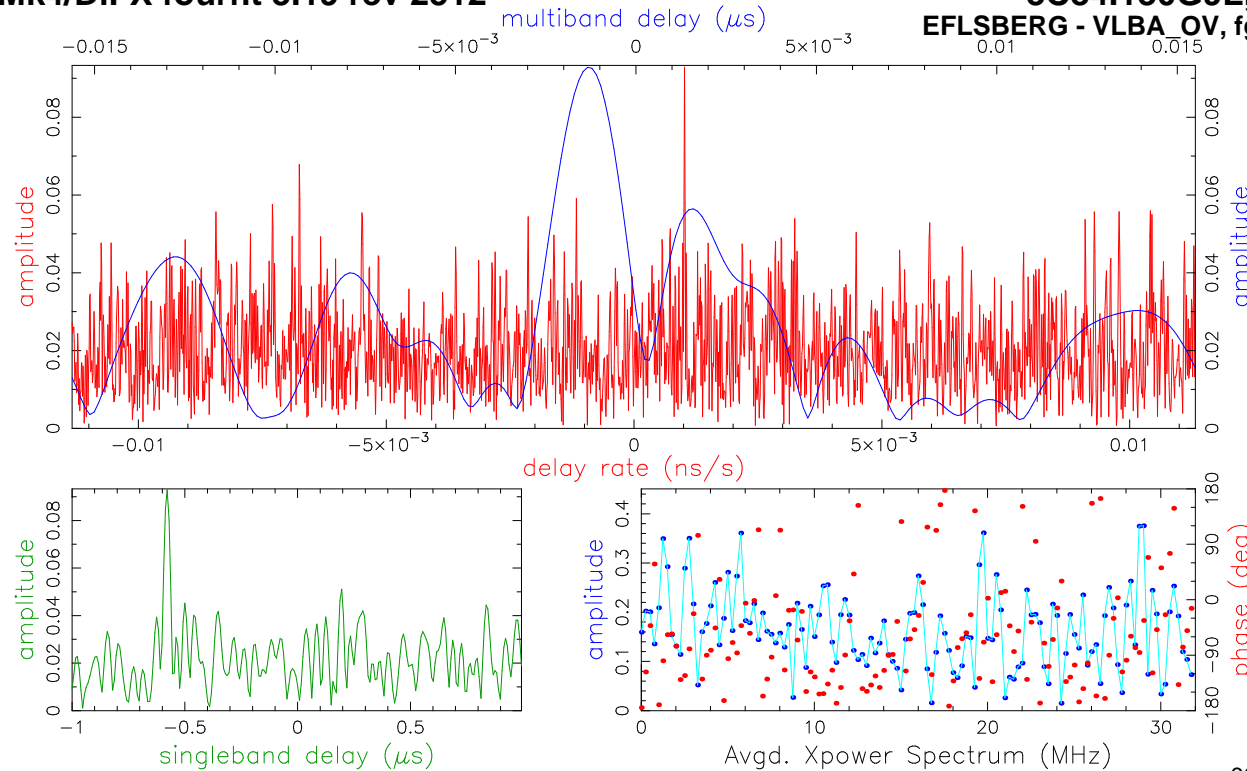
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	18.6	-40.8	63.9	-23.6	-9.1	-55.1	58.1	2.0	-47.3	-95.2	28.7	-16.4	-13.7	-64.1	94.0	42.1		Phase	-5.8
B	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.5	0.6	0.5	0.5	0.5	0.5	0.7	0.6	0.3		Ampl.	0.6
o	129.0	129.0	128.9	129.2	129.3	129.0	129.0	129.0	129.3	129.5	129.0	128.9	129.1	129.2	129.5	128.7		Sbd box	129.1
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	

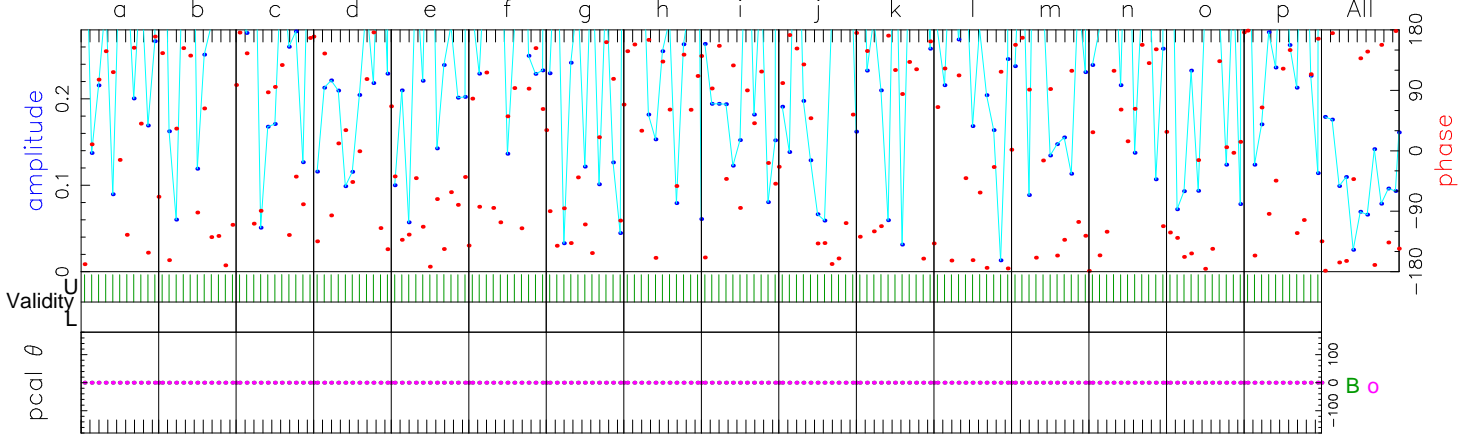
Group delay (usec)(sbd) -1.25161135171E+04 Apriori delay (usec) -1.25161190599E+04 Resid mbdelay (usec) 5.54275E-03 +/- 4.7E-05
 Sband delay (usec) -1.25161184074E+04 Apriori clock (usec) 1.5642166E-01 Resid sbdelay (usec) 6.52500E-04 +/- 7.5E-04
 Phase delay (usec) -1.25161190601E+04 Apriori clockrate (us/s) -2.0098100E-07 Resid phdelay (usec) -1.88083E-07 +/- 1.6E-07
 Delay rate (us/s) -1.00762846426E+00 Apriori rate (us/s) -1.00762829832E+00 Resid rate (us/s) -1.65939E-07 +/- 5.8E-10
 Total phase (deg) -300.4 Apriori accel (us/s/s) 7.90541582435E-05 Resid phase (deg) -5.8 +/- 5.0

RMS Theor. Amplitude 0.384 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 47.3 8.7 Search (2048X64) 0.375 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 46.4 15.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 53.7 10.0 Inc. seg. avg. 0.531 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.3 17.4 Inc. frq. avg. 0.569 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

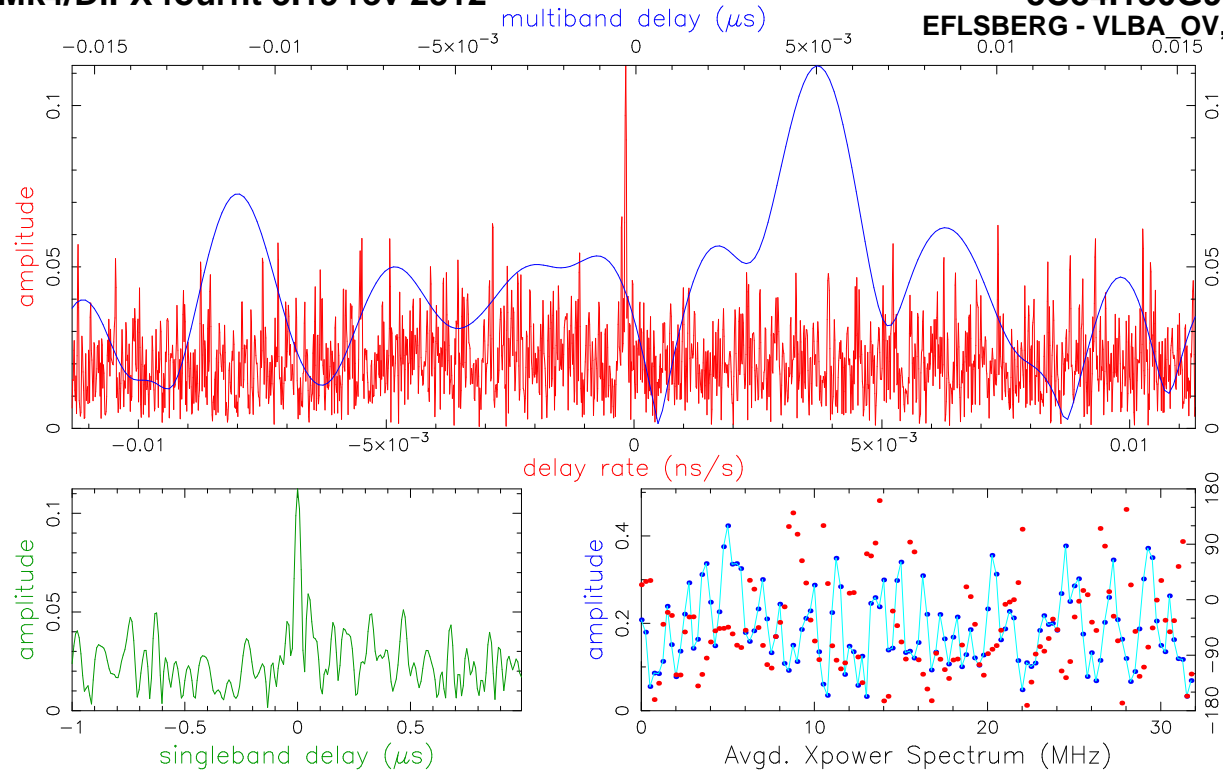


Fringe quality 0
 SNR 5.6
 Int time 476.371
 Amp 0.093
 Phase -177.8
 PFD 1.0e+00
 Delays (us)
 SBD -0.579016
 MBD -0.001312
 Fringe rate (Hz) 0.087698
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192b
 Exper # 16383
 Yr:day 2019:278
 Start 090000.00
 Stop 090759.74
 FRT 090400.00
 Corr/FF/build 2020:080:062909
 2020:086:112302
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	164.6	175.8	-174.1	-136.7	-103.4	167.2	-133.4	119.1	102.5	169.5	176.4	-173.2	-161.8	143.6	-142.0	-166.8	Phase	-177.8					
	0.1	0.2	0.1	0.0	0.2	0.0	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	Ampl.	0.1					
	162.1	69.1	52.3	211.0	251.7	84.8	126.6	53.8	172.0	199.8	56.6	243.9	230.2	239.3	35.2	128.2	Sbd box	54.9					
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used						
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase						
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp						
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp						
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids						
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks						
																	Chan ids						
																	Tracks						
Group delay (usec)(sbd)			-1.25166828719E+04														Apriori delay (usec)	-1.25161190599E+04	Resid mbdelay (usec)	-1.31206E-03	+/-	1.9E-04	
Sband delay (usec)			-1.25166980759E+04														Apriori clock (usec)	1.5642166E-01	Resid sbdelay (usec)	-5.79016E-01	+/-	3.1E-03	
Phase delay (usec)			-1.25161190656E+04														Apriori clockrate (us/s)	-2.0098100E-07	Resid phdelay (usec)	-5.73353E-06	+/-	6.7E-07	
Delay rate (us/s)			-1.00762728023E+00														Apriori rate (us/s)	-1.00762829832E+00	Resid rate (us/s)	1.01809E-06	+/-	2.4E-09	
Total phase (deg)																	Apriori accel (us/s/s)	7.90541582435E-05	Resid phase (deg)	-177.8	+/-	20.6	
ph/seg (deg)	RMS	Theor.															PCal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
amp/seg (%)	47.0	35.7															PCal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
ph/frq (deg)	49.3	62.4															Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016	
amp/frq (%)	41.0	41.3															Sample rate(MISamp/s): 64		dr window (ns/s)	-0.011	0.011		
	64.3	72.0															Data rate(Mb/s): 2048		nlags: 128	t_cohere infinite	ion window (TEC)	0.00	0.00

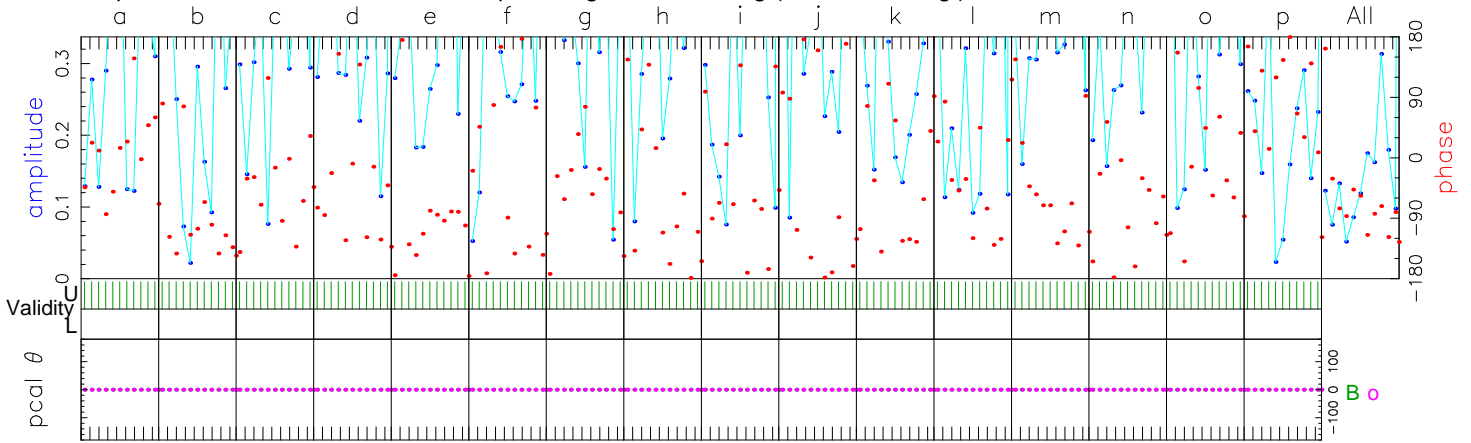


Fringe quality 0

SNR 6.7
Int time 476.370
Amp 0.112
Phase -86.7
PFD 5.6e-03
Delays (us)
SBD 0.000615
MBD 0.005032
Fringe rate (Hz)
-0.014669
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

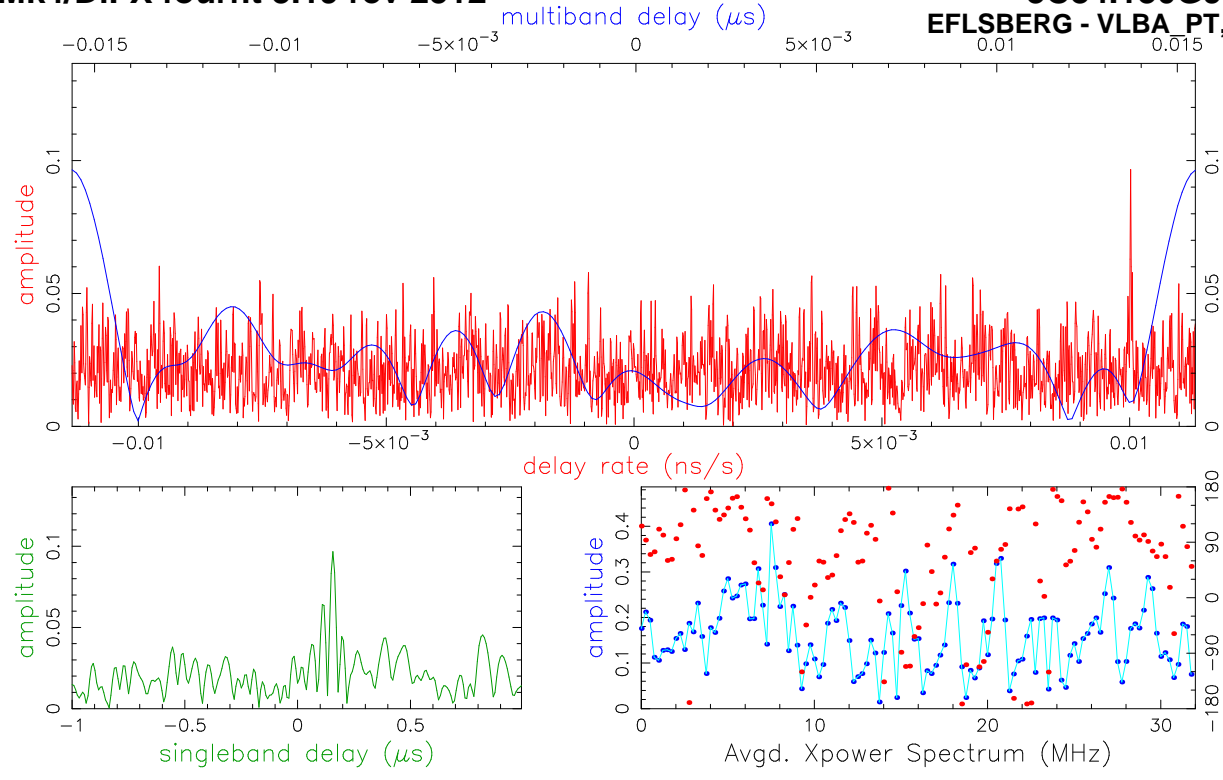
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112307
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



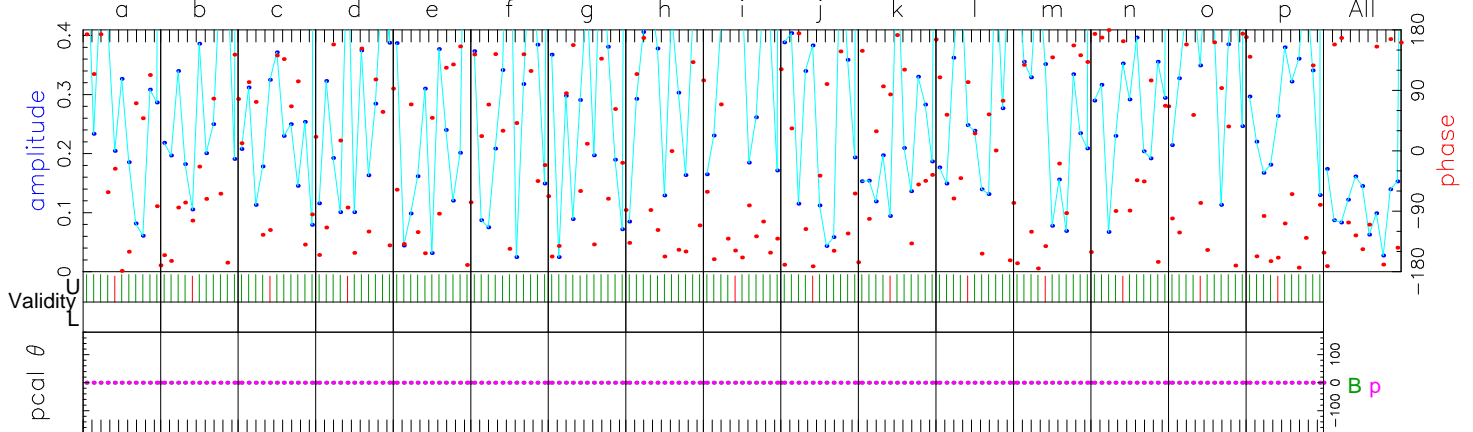
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	
Group delay (usec)(sbd)		-1.25161140275E+04																	
Sband delay (usec)		-1.25161184454E+04																	
Phase delay (usec)		-1.25161190627E+04																	
Delay rate (us/s)		-1.00762846861E+00																	
Total phase (deg)					-21.3														
Apriori delay (usec)																			
Apriori clock (usec)																			
Apriori clockrate (us/s)																			
Apriori rate (us/s)																			
Apriori accel (us/s/s)																			
Resid mbdelay (usec)																			
Resid sbdelay (usec)																			
Resid phdelay (usec)																			
Resid rate (us/s)																			
Resid phase (deg)																			
Pcal mode: MANUAL, MANUAL																			
Pcal rate: 0.000E+00, 0.000E+00 (us/s)																			
sb window (us)																			
Bits/sample: 2x2																			
SampCntNorm: enabled																			
Sample rate(MISamp/s): 64																			
Data rate(Mb/s): 2048																			
nlags: 128																			
t_cohere infinite																			
ion window (TEC)																			

ph/seg (deg) 42.7 29.6 Search (2048X64) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.6 51.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.1 34.2 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 83.8 59.6 Inc. frq. avg. 0.154 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 o: az 68.0 el 74.1 pa -98.6 u,v (fr/asec) 7844.423 6540.056 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bo..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bo.W.71.130G9L



Fringe quality 0
SNR 5.8
Int time 475.934
Amp 0.137
Phase -159.6
PFD 8.7e-01
Delays (us)
SBD 0.156274
MBD 0.015575
Fringe rate (Hz) 0.864010
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112321
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

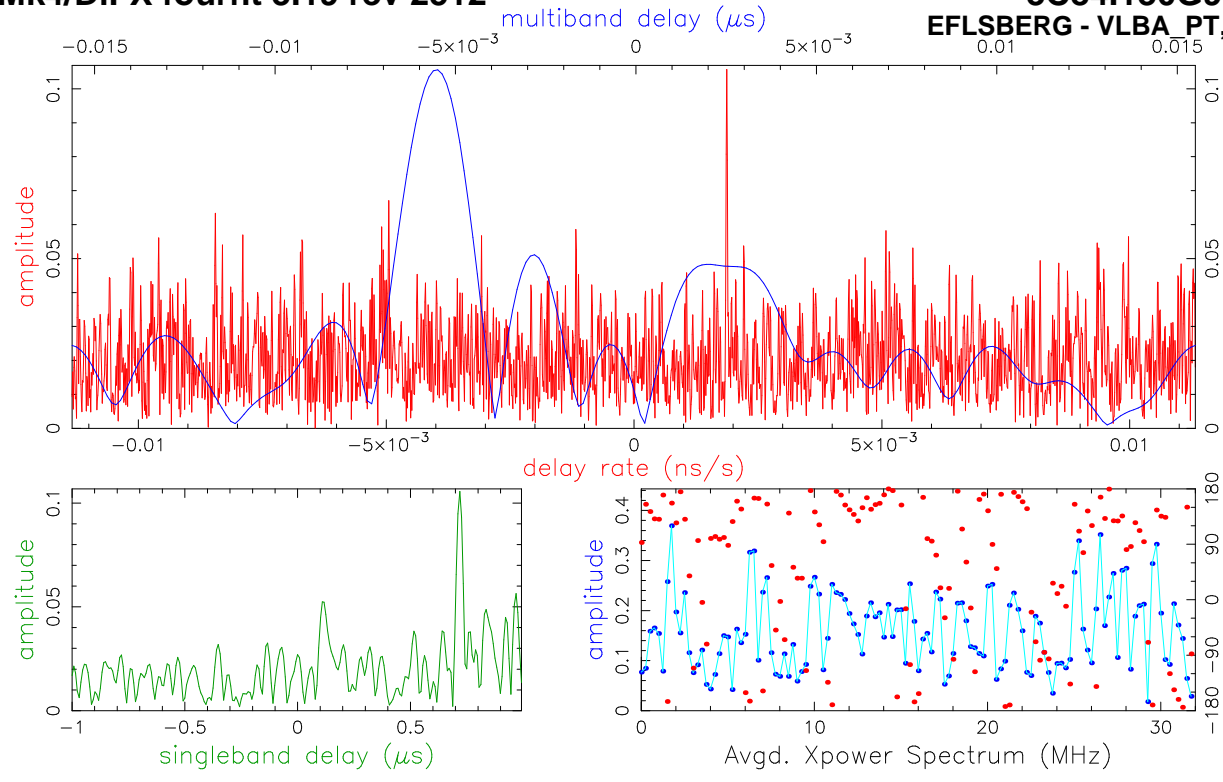


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-175.5	-102.8	137.8	-162.8	-154.1	142.9	154.0	-144.6	-137.8	-161.8	-156.7	6.0	-179.2	-156.9	-174.7	-146.5	Phase	-159.6
	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.2	0.3	0.2	0.0	0.1	0.3	0.1	0.2	0.3	Ampl.	0.1
	34.2	145.2	239.0	191.5	58.5	135.7	144.1	198.5	149.2	213.3	136.8	15.3	39.3	123.9	50.9	233.0	Sbd box	149.0
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
Group delay (usec)(sbd)	-1.29328623293E+04			Apriori delay (usec)			-1.29330341548E+04			Resid mbdelay (usec)			1.55754E-02			+/- 1.9E-04		
Sband delay (usec)	-1.29328778808E+04			Apriori clock (usec)			4.8551683E+00			Resid sbdelay (usec)			1.56274E-01			+/- 3.0E-03		
Phase delay (usec)	-1.29330341599E+04			Apriori clockrate (us/s)			-4.0388659E-07			Resid phdelay (usec)			-5.14634E-06			+/- 6.4E-07		
Delay rate (us/s)	-8.53693389506E-01			Apriori rate (us/s)			-8.53703419806E-01			Resid rate (us/s)			1.00303E-05			+/- 2.3E-09		
Total phase (deg)	-193.3			Apriori accel (us/s/s)			8.43943833353E-05			Resid phase (deg)			-159.6			+/- 19.9		

ph/seg (deg) 34.5 34.4 Search (2048X64) 0.095 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.1 60.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.7 39.7 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 64.1 69.4 Inc. frq. avg. 0.133 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 p: az 43.4 el 79.5 pa -128.2 u,v (fr/asec) 6674.663 7197.680 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bp..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bp.W.109.130G9L simultaneous interpolator

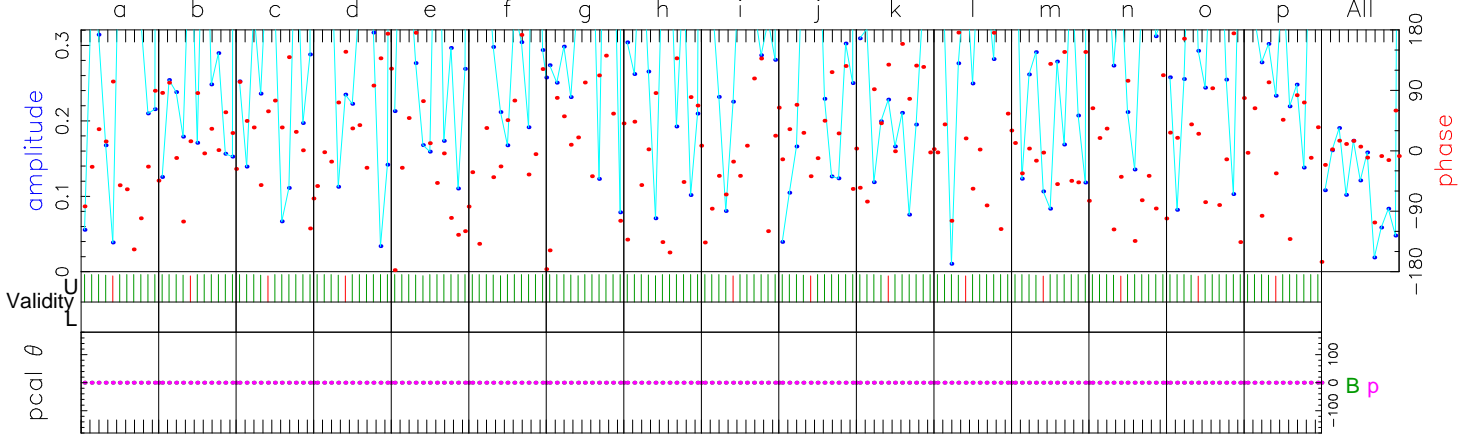
Mk4/DiFX fourfit 3.19 rev 2512

3C84.130G9L, No0205, Bp
EFLSBERG - VLBA_PT, fgroup W, pol RL



Fringe quality 0
SNR 6.3
Int time 475.933
Amp 0.107
Phase 2.7
PFD 7.5e-02
Delays (us)
SBD 0.718511
MBD -0.005533
Fringe rate (Hz)
0.161034
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112327
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

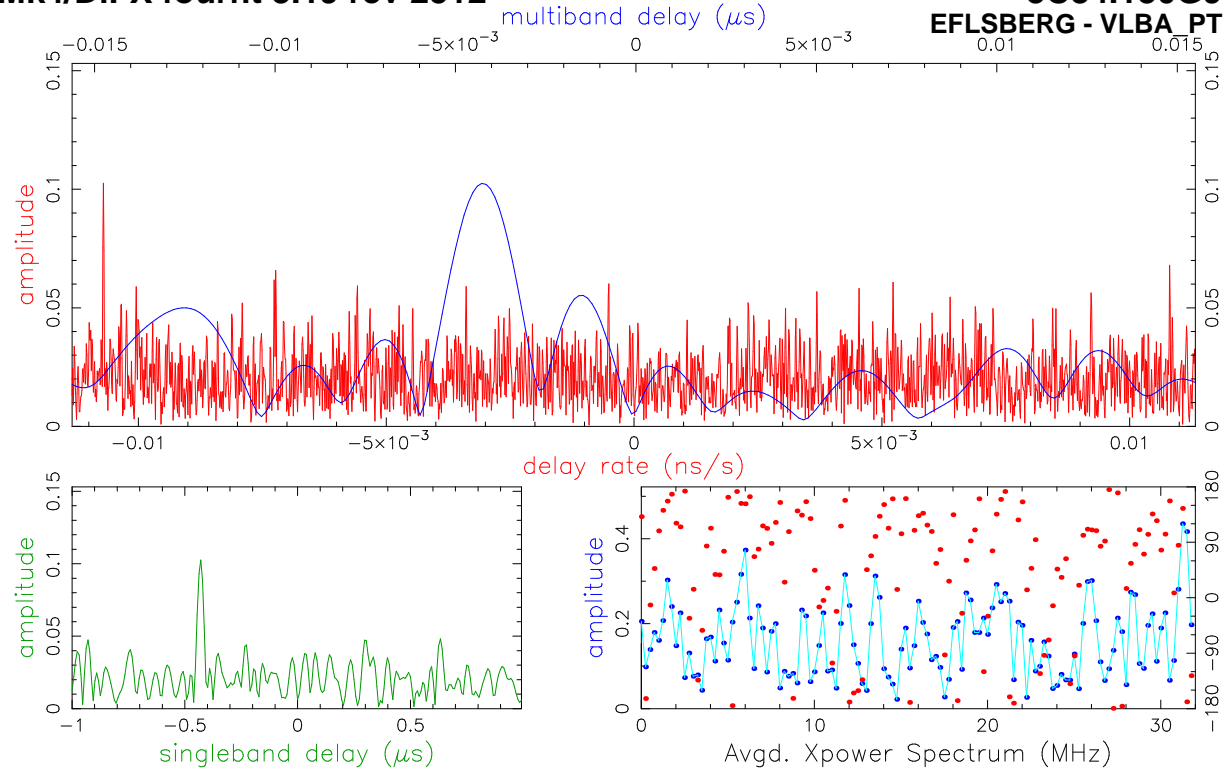
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All			
	-42.8	20.1	40.4	9.2	-45.1	4.2	66.1	-81.3	-47.7	16.1	49.4	-12.8	-17.0	-10.4	4.4	25.6	Phase	2.7			
	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1			
	199.1	221.8	107.7	135.1	80.8	56.3	77.9	69.5	185.7	235.5	7.0	244.1	201.1	247.9	157.1	140.4	Sbd box	221.0			
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used				
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs				
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase				
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC				
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp				
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids				
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks				
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids				
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks				
Group delay (usec)(sbd)			-1.29323209378E+04						Apriori delay (usec)								-1.29330341548E+04	Resid mbdelay (usec)	-5.53306E-03	+/-	1.7E-04
Sband delay (usec)			-1.29323156443E+04						Apriori clock (usec)								4.8551683E+00	Resid sbdelay (usec)	7.18511E-01	+/-	2.7E-03
Phase delay (usec)			-1.29330341547E+04						Apriori clockrate (us/s)								-4.0388659E-07	Resid phdelay (usec)	8.65494E-08	+/-	5.9E-07
Delay rate (us/s)			-8.53701550360E-01						Apriori rate (us/s)								-8.53703419806E-01	Resid rate (us/s)	1.86945E-06	+/-	2.1E-09
Total phase (deg)					-31.0				Apriori accel (us/s/s)								8.43943833353E-05	Resid phase (deg)	2.7	+/-	18.2

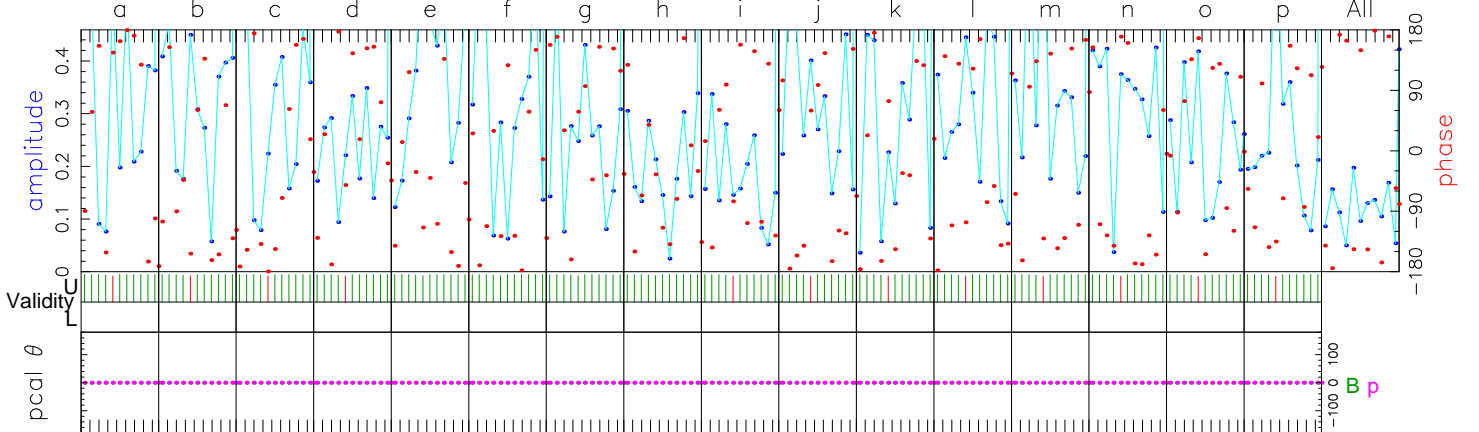
ph/seg (deg) RMS 39.0 Theor. 31.5 Amplitude 0.107 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.4 54.9 Search (2048X64) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.9 36.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 42.1 63.4 Inc. seg. avg. 0.099 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 p: az 43.4 el 79.5 pa -128.2 u,v (fr/asec) 6674.663 7197.680 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bp..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bp.W.130.130G9L



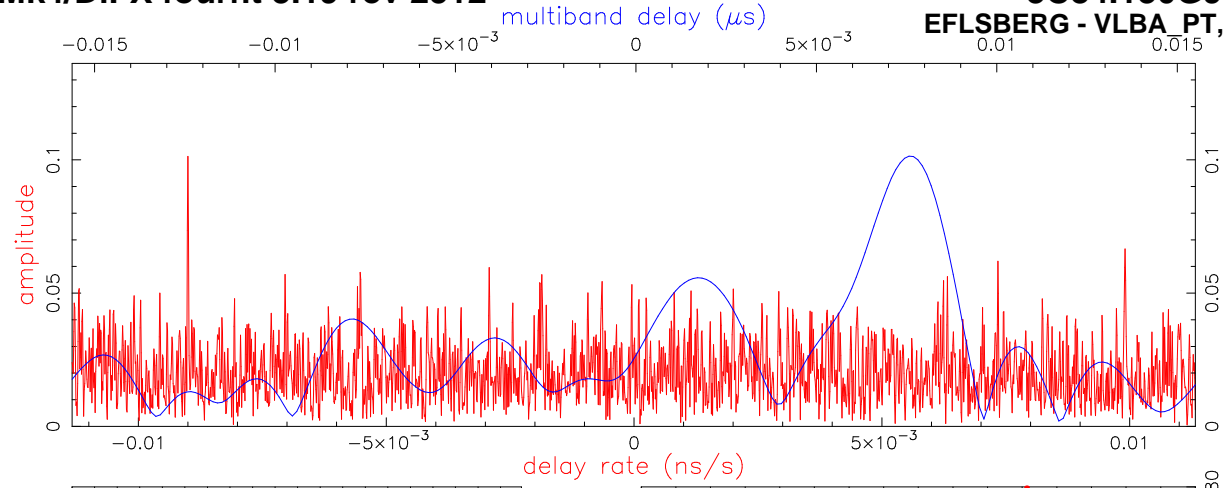
Fringe quality 0
SNR 6.1
Int time 475.933
Amp 0.153
Phase -169.1
PFD 2.2e-01
Delays (us)
SBD -0.430502
MBD -0.004258
Fringe rate (Hz)
-0.923969
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112311
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

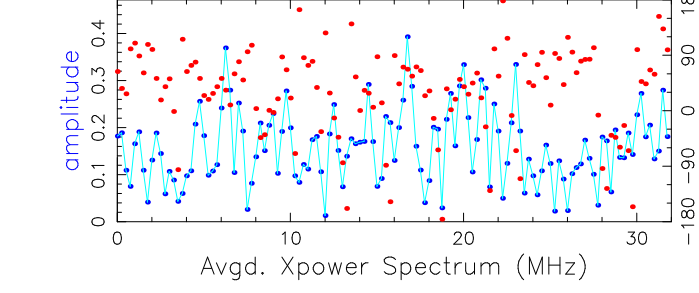
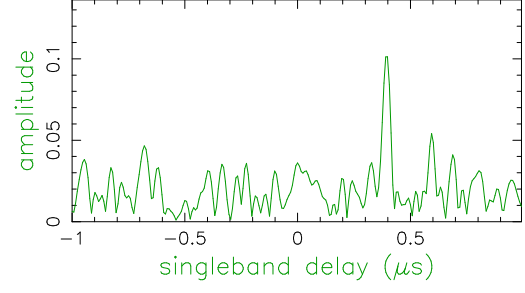


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-179.9	-163.5	-161.1	127.6	-101.8	-171.1	137.6	-58.0	-178.3	179.5	116.1	-138.6	-172.3	-162.8	161.2	-144.7	Phase	-169.1				
	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.2	0.3	0.4	0.1	0.1	Ampl.	0.1				
	72.6	104.0	108.4	56.9	10.8	38.7	215.2	53.1	65.1	73.5	209.8	236.8	252.6	73.9	189.0	100.1	Sbd box	73.9				
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase					
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids					
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks					
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
Group delay (usec)(sbd)			-1.29334759129E+04														Apriori delay (usec)	-1.29330341548E+04	Resid mbdelay (usec)	-4.25810E-03	+/-	1.8E-04
Sband delay (usec)			-1.29334646568E+04														Apriori clock (usec)	4.8551683E+00	Resid sbdelay (usec)	-4.30502E-01	+/-	2.8E-03
Phase delay (usec)			-1.29330341602E+04														Apriori clockrate (us/s)	-4.0388659E-07	Resid phdelay (usec)	-5.45338E-06	+/-	6.0E-07
Delay rate (us/s)			-8.53714146170E-01														Apriori rate (us/s)	-8.53703419806E-01	Resid rate (us/s)	-1.07264E-05	+/-	2.2E-09
Total phase (deg)																	Apriori accel (us/s/s)	8.43943833353E-05	Resid phase (deg)	-169.1	+/-	18.7

ph/seg (deg) 40.8 32.4 Amplitude 0.153 +/- 0.025 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 46.7 56.6 Search (2048X64) 0.099 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.0 37.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 59.0 65.3 Inc. seg. avg. 0.152 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 p: az 43.4 el 79.5 pa -128.2 u,v (fr/asec) 6674.663 7197.680 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bp..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bp.W.81.130G9L simultaneous interpolator

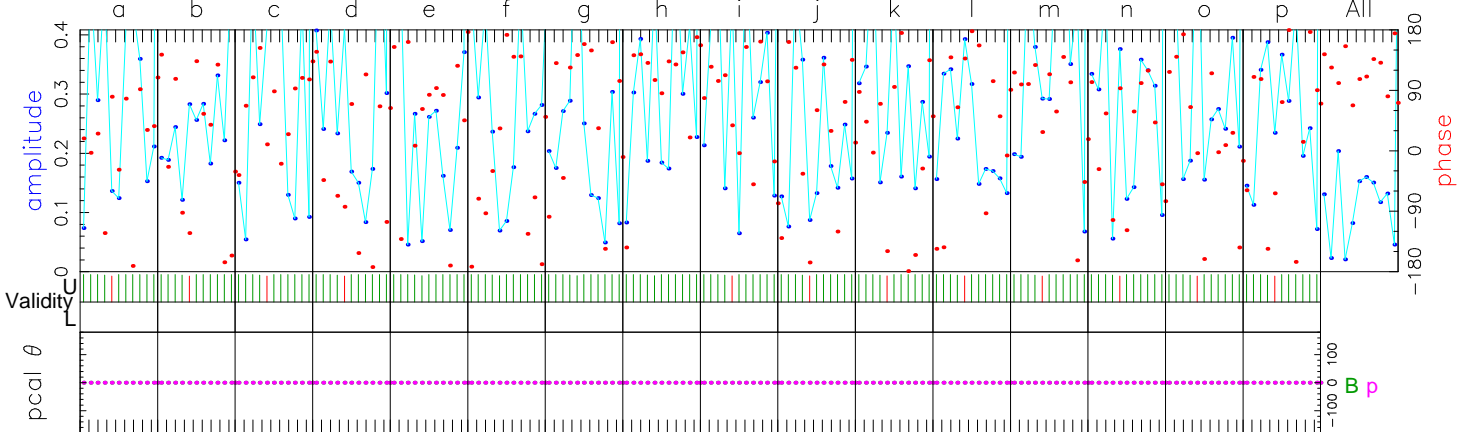


Fringe quality 0
SNR 6.2
Int time 475.934
Amp 0.136
Phase 114.0
PFD 1.7e-01
Delays (us)
SBD 0.394652
MBD 0.007672
Fringe rate (Hz)
-0.776861
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



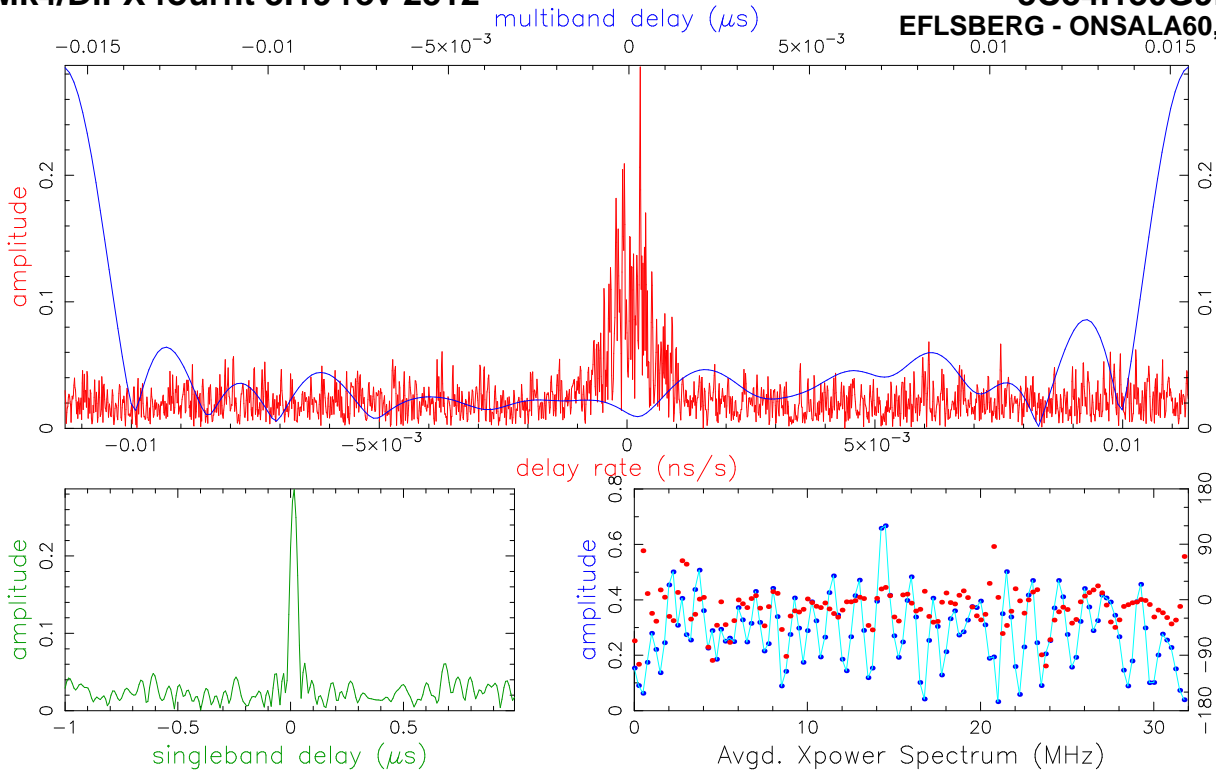
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112316
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	
Group delay (usec)(sbd)			-1.29326514826E+04																
Sband delay (usec)			-1.29326395023E+04																
Phase delay (usec)			-1.29330341511E+04																
Delay rate (us/s)			-8.53712438397E-01																
Total phase (deg)					80.3														
Apriori delay (usec)																			
Apriori clock (usec)																			
Apriori clockrate (us/s)																			
Apriori rate (us/s)																			
Apriori accel (us/s/s)																			
Resid mbdelay (usec)																			
Resid sbdelay (usec)																			
Resid phdelay (usec)																			
Resid rate (us/s)																			
Resid phase (deg)																			
PCal mode: MANUAL, MANUAL																			
PCal rate: 0.000E+00, 0.000E+00 (us/s)																			
Bits/sample: 2x2																			
Sample rate(MISamp/s): 64																			
Data rate(Mb/s): 2048																			
nlags: 128																			
t_cohere infinite																			
ion window (TEC)																			
sb window (us)																			
mb window (us)																			
dr window (ns/s)																			
ion window (TEC)																			

B: az 308.6 el 22.7 pa 41.3 p: az 43.4 el 79.5 pa -128.2 u,v (fr/asec) 6674.663 7197.680 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/Bp..130G9L Output file: /Exps/c192b/v2/1234/No0205/Bp.W.93.130G9L

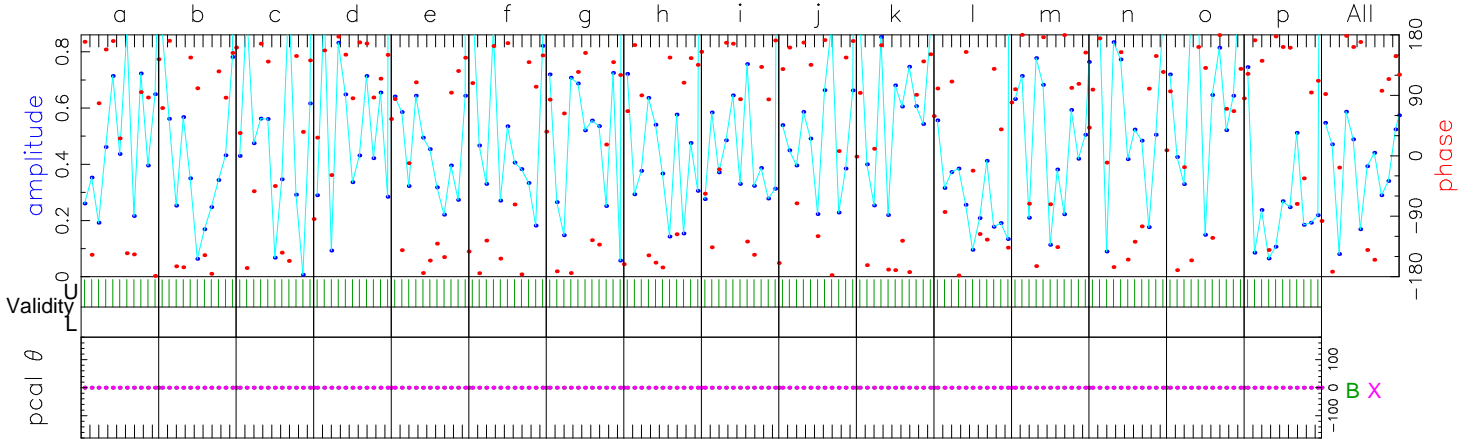


Fringe quality 9

SNR 17.2
Int time 478.749
Amp 0.287
Phase 159.6
PFD 0.0e+00
Delays (us)
SBD 0.013968
MBD -0.015718
Fringe rate (Hz) 0.023280
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

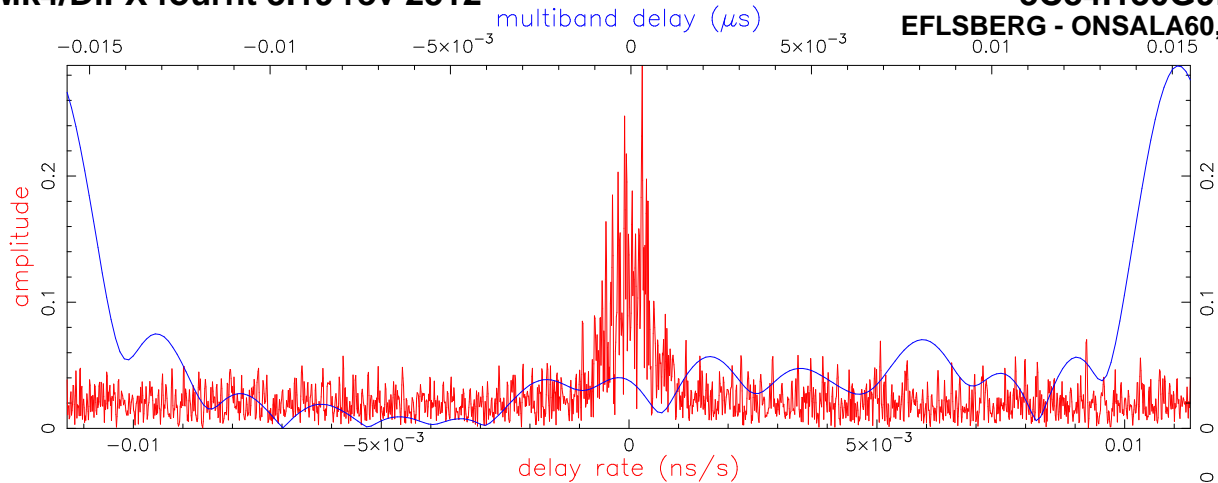
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.51
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112322
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



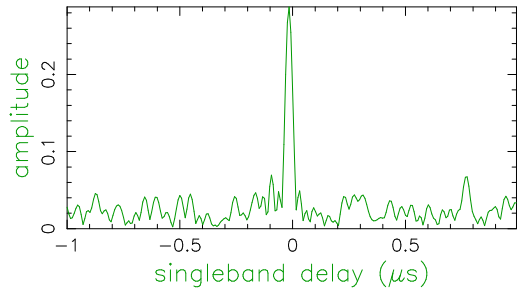
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	160.4	144.0	-180.0	143.4	153.3	161.0	154.9	164.1	-171.0	167.8	157.6	164.3	161.8	164.0	150.3	147.3		Phase	159.6				
	0.3	0.3	0.3	0.4	0.2	0.4	0.3	0.2	0.2	0.4	0.4	0.1	0.3	0.4	0.4	0.1		Ampl.	0.3				
	130.3	131.3	130.2	130.5	130.6	130.9	131.0	130.0	131.0	130.3	130.7	56.1	130.9	130.8	131.4	128.7		Sbd box	130.8				
U/L	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0		APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase					
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids					
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-7.29267315703E+02															Apriori delay (usec)	-7.29282847519E+02	Resid mbdelay (usec)	-1.57182E-02	+/-	6.3E-05
Sband delay (usec)			-7.29268880019E+02															Apriori clock (usec)	-1.5578114E+01	Resid sbdelay (usec)	1.39675E-02	+/-	1.0E-03
Phase delay (usec)			-7.29282842372E+02															Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	5.14699E-06	+/-	2.2E-07
Delay rate (us/s)			-1.25785404590E-01															Apriori rate (us/s)	-1.25785674848E-01	Resid rate (us/s)	2.70258E-07	+/-	7.8E-10
Total phase (deg)					-15.1													Apriori accel (us/s/s)	-1.49517665067E-06	Resid phase (deg)	159.6	+/-	6.7

ph/seg (deg) 66.8 11.6 Search (2048X64) 0.263 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.1 20.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.6 13.4 Inc. seg. avg. 0.386 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 31.9 23.3 Inc. frq. avg. 0.284 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 X: az 309.5 el 24.7 pa 33.4 u,v (fr/asec) 961.244 -581.647 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BX..130G9L Output file: /Exps/c192b/v2/1234/No0205/BX.W.115.130G9L

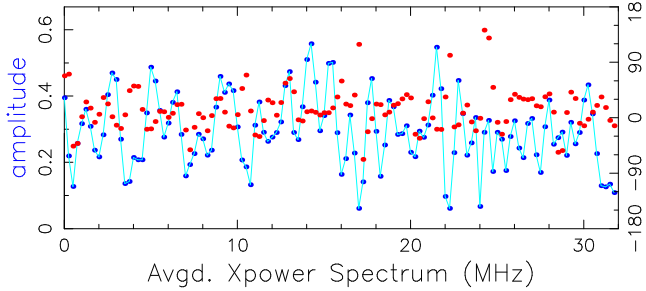


Fringe quality 9

SNR 17.2
Int time 478.749
Amp 0.288
Phase -172.2
PFD 0.0e+00
Delays (us)
SBD -0.016587
MBD 0.015165
Fringe rate (Hz) 0.023242
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

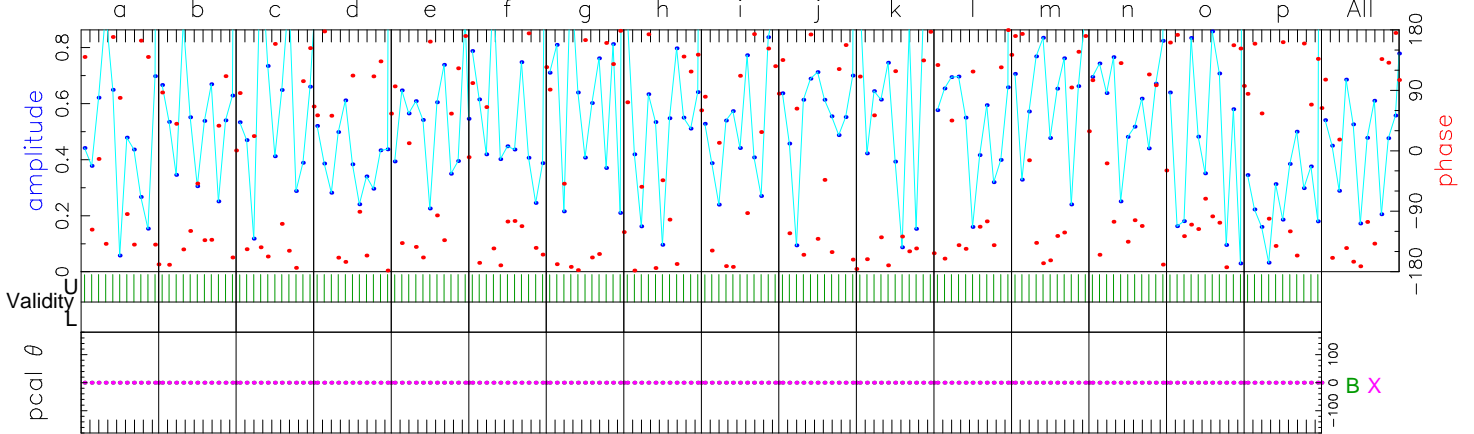


delay rate (ns/s)



Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.51
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112329
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

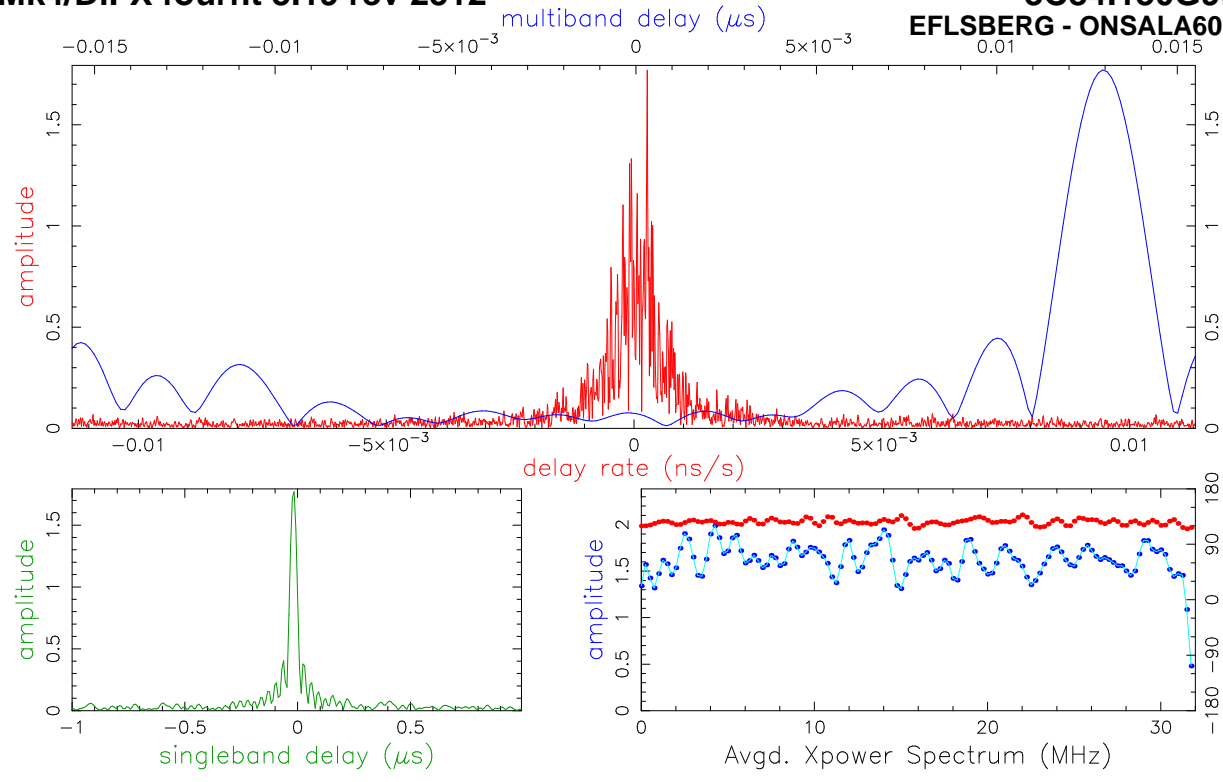
Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-146.6	-160.1	-166.9	158.0	-163.0	-156.0	174.3	159.6	156.7	-167.5	165.3	-167.1	-164.5	-158.8	-129.2	162.2	Phase	-172.2				
	0.3	0.2	0.4	0.2	0.3	0.3	0.5	0.3	0.3	0.4	0.3	0.3	0.4	0.2	0.3	0.1	Ampl.	0.3				
	129.5	126.1	127.2	126.2	126.2	126.7	126.2	126.9	126.9	127.2	127.4	125.3	126.5	128.2	126.1	135.2	Sbd box	126.9				
U/L	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-7.29298932859E+02														Apriori delay (usec)	-7.29282847519E+02	Resid mbdelay (usec)	1.51647E-02	+/-	6.3E-05
Sband delay (usec)			-7.29299434519E+02														Apriori clock (usec)	-1.5578114E+01	Resid sbdelay (usec)	-1.65870E-02	+/-	1.0E-03
Phase delay (usec)			-7.29282853071E+02														Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	-5.55164E-06	+/-	2.1E-07
Delay rate (us/s)			-1.25785405033E-01														Apriori rate (us/s)	-1.25785674848E-01	Resid rate (us/s)	2.69815E-07	+/-	7.8E-10
Total phase (deg)																	Apriori accel (us/s/s)	-1.49517665067E-06	Resid phase (deg)	-172.2	+/-	6.7

RMS Theor. Amplitude 0.288 +/- 0.017
 ph/seg (deg) 66.4 11.5 Search (2048X64) 0.273
 amp/seg (%) 79.5 20.1 Interp. 0.000
 ph/frq (deg) 22.8 13.3 Inc. seg. avg. 0.445
 amp/frq (%) 30.2 23.2 Inc. frq. avg. 0.299
 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(MISamp/s): 64
 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite
 sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 X: az 309.5 el 24.7 pa 33.4 u,v (fr/asec) 961.244 -581.647 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BX..130G9L Output file: /Exps/c192b/v2/1234/No0205/BX.W.140.130G9L

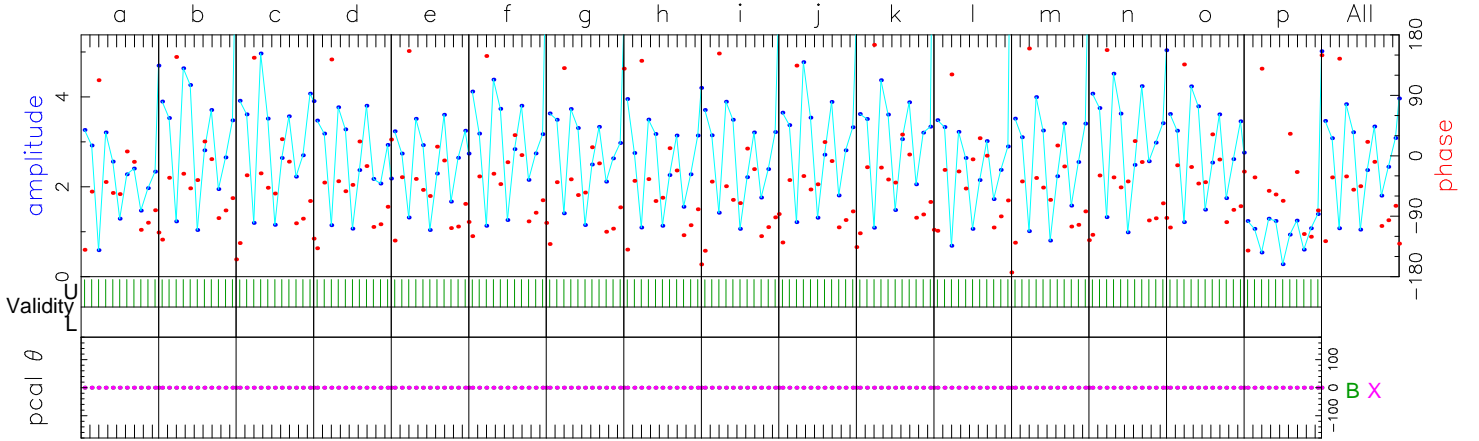


Fringe quality 5

SNR 107.3
Int time 478.749
Amp 1.793
Phase -54.2
PFD 0.0e+00
Delays (us)
SBD -0.018459
MBD 0.012926
Fringe rate (Hz) 0.023233
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.51
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112311
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-62.1	-47.8	-51.9	-57.9	-57.4	-45.7	-60.9	-66.4	-70.7	-53.3	-41.9	-45.3	-60.0	-53.0	-42.4	-68.0	Phase	-54.2				
	1.5	2.1	2.1	1.8	1.7	2.0	1.8	1.7	1.8	2.0	2.0	1.7	1.8	2.2	2.0	0.6	Ampl.	1.8				
	127.1	126.7	126.6	126.3	126.9	126.6	126.5	126.5	126.7	126.8	126.6	126.7	126.6	126.9	126.4	125.4	Sbd box	126.6				
U/L	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)		-7.29301171891E+02															Apriori delay (usec)	-7.29282847519E+02	Resid mbdelay (usec)	1.29256E-02	+/-	1.0E-05
Sband delay (usec)		-7.29301306519E+02															Apriori clock (usec)	-1.5578114E+01	Resid sbdelay (usec)	-1.84590E-02	+/-	1.6E-04
Phase delay (usec)		-7.29282849269E+02															Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	-1.74930E-06	+/-	3.4E-08
Delay rate (us/s)		-1.25785405131E-01															Apriori rate (us/s)	-1.25785674848E-01	Resid rate (us/s)	2.69717E-07	+/-	1.2E-10
Total phase (deg)																	Apriori accel (us/s/s)	-1.49517665067E-06	Resid phase (deg)	-54.2	+/-	1.1

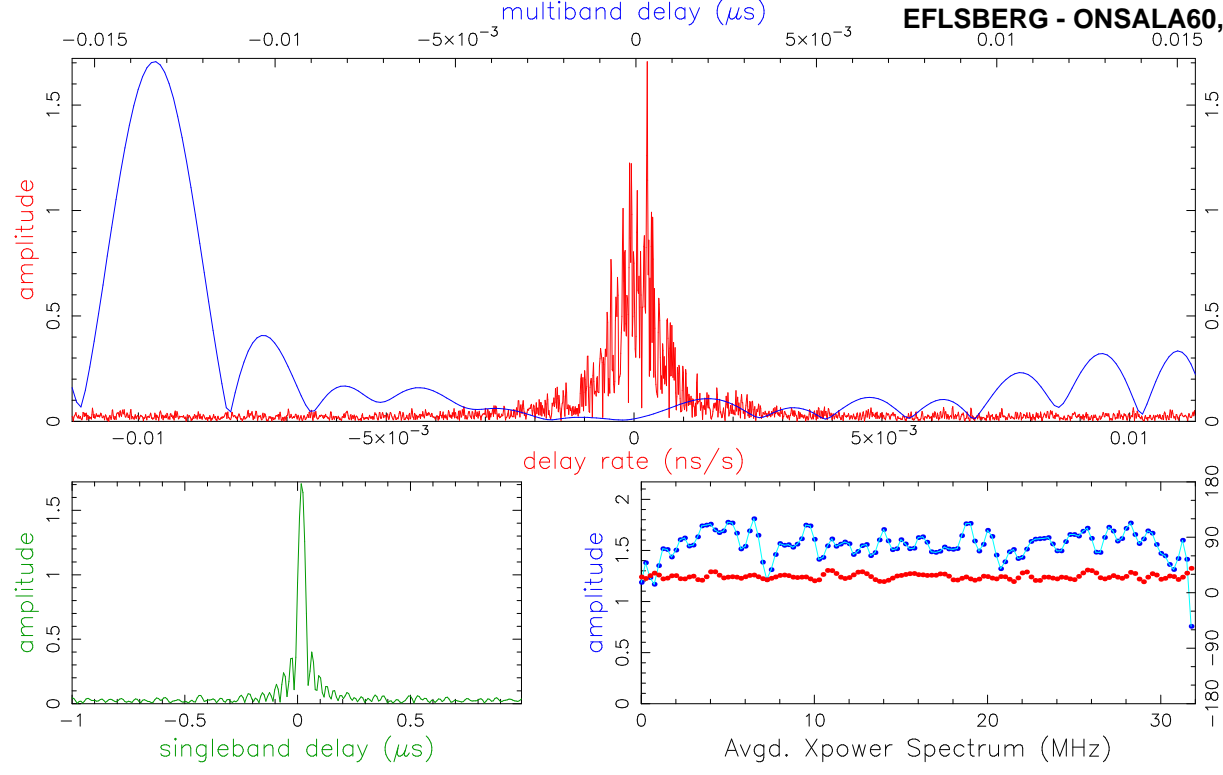
RMS Theor. Amplitude 1.793 +/- 0.017
ph/seg (deg) 63.8 1.9 Search (2048X64) 1.648
amp/seg (%) 68.4 3.2 Interp. 0.000
ph/frq (deg) 9.5 2.1 Inc. seg. avg. 2.615
amp/frq (%) 19.9 3.7 Inc. frq. avg. 1.789

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): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 X: az 309.5 el 24.7 pa 33.4 u,v (fr/asec) 961.244 -581.647 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BX..130G9L Output file: /Exps/c192b/v2/1234/No0205/BX.W.82.130G9L

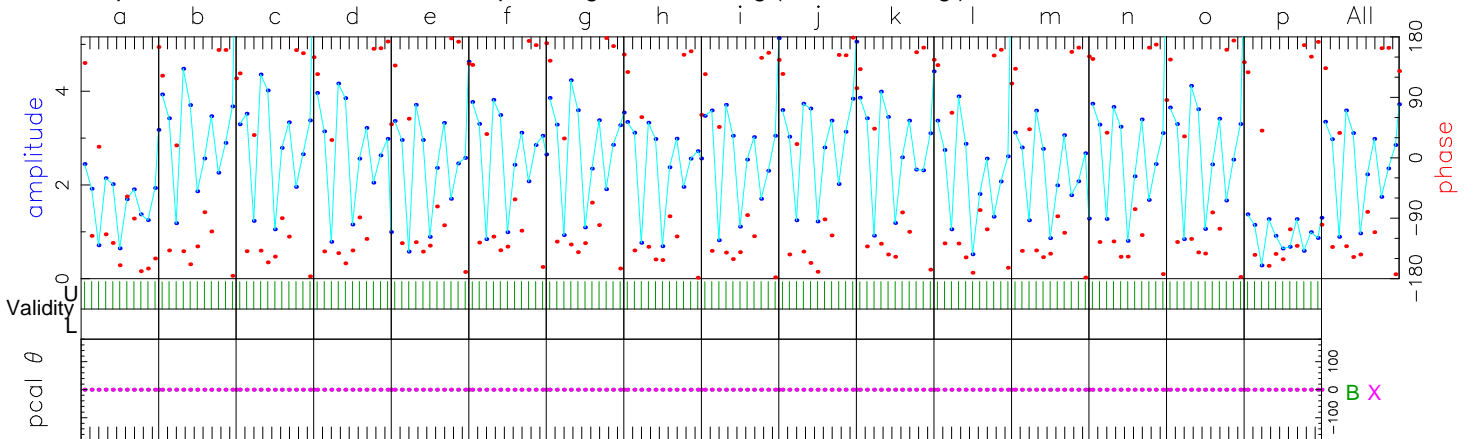


Fringe quality 4

SNR 103.0
Int time 478.749
Amp 1.721
Phase -153.8
PFD 0.0e+00
Delays (us)
SBD 0.017969
MBD -0.013321
Fringe rate (Hz) 0.023209
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.51
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112316
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

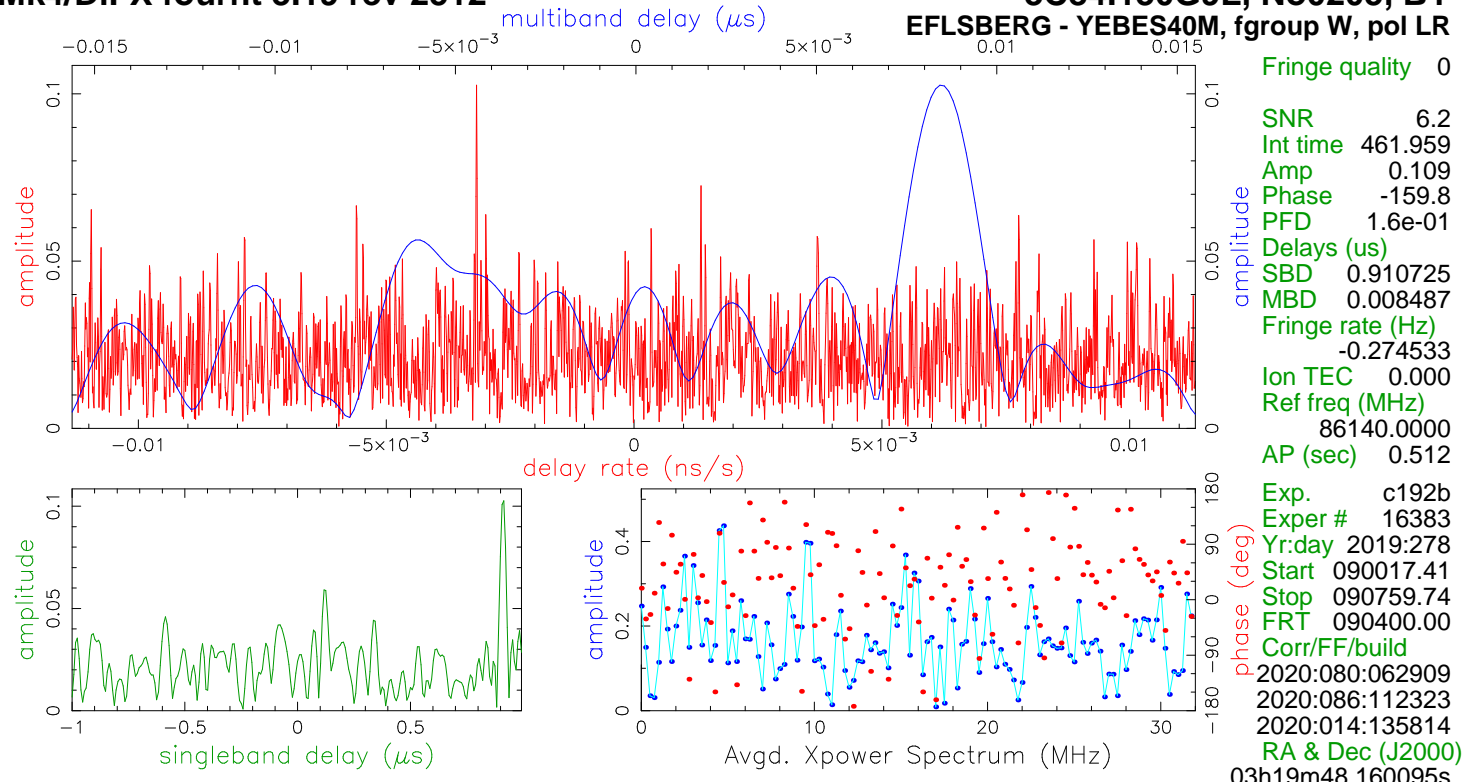


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-132.9	-157.6	-158.0	-161.6	-145.2	-145.7	-145.8	-160.3	-159.1	-164.2	-152.3	-154.3	-157.4	-151.1	-146.8	-167.9	Phase	-153.8
	1.1	2.1	2.0	2.0	1.7	1.8	2.0	1.7	1.8	2.0	1.9	1.5	1.6	1.8	1.9	0.7	Ampl.	1.7
	130.3	131.2	131.3	131.2	131.5	131.5	131.2	131.1	131.1	131.3	131.6	131.4	131.1	131.6	130.8	131.9	Sbd box	131.3
U/L	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	936/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

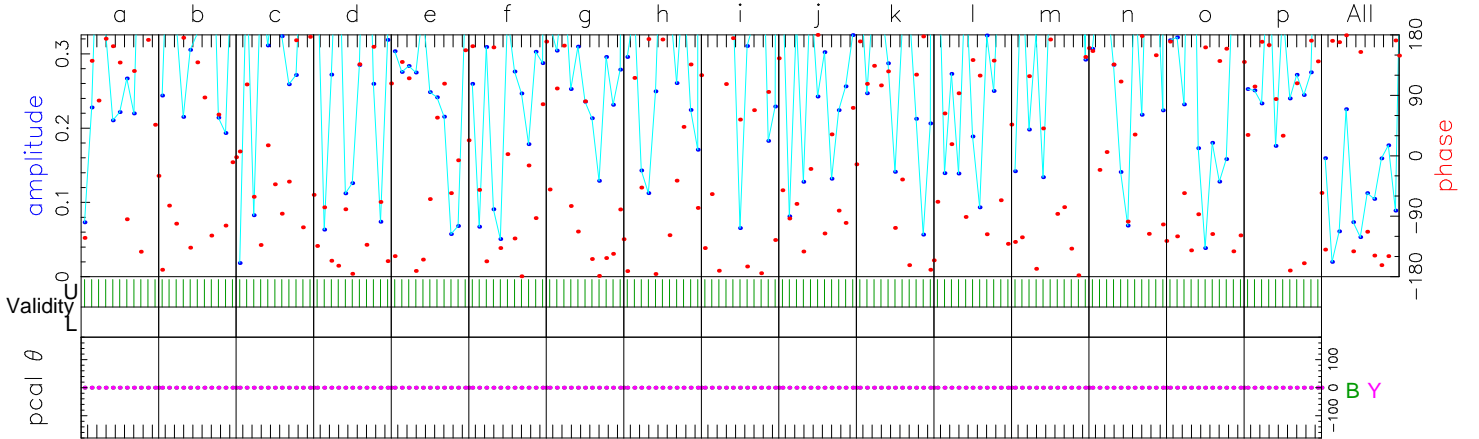
Group delay (usec)(sbd) -7.29264918203E+02 Apriori delay (usec) -7.29282847519E+02 Resid mbdelay (usec) -1.33207E-02 +/- 1.0E-05
 Sband delay (usec) -7.29264878519E+02 Apriori clock (usec) -1.5578114E+01 Resid sbdelay (usec) 1.79690E-02 +/- 1.7E-04
 Phase delay (usec) -7.29282852478E+02 Apriori clockrate (us/s) -7.2800002E-07 Resid phdelay (usec) -4.95894E-06 +/- 3.6E-08
 Delay rate (us/s) -1.25785405416E-01 Apriori rate (us/s) -1.25785674848E-01 Resid rate (us/s) 2.69433E-07 +/- 1.3E-10
 Total phase (deg) -328.5 Apriori accel (us/s/s) -1.49517665067E-06 Resid phase (deg) -153.8 +/- 1.1

RMS Theor. Amplitude 1.721 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 64.9 1.9 Search (2048X64) 1.590 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 66.6 3.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 9.2 2.2 Inc. seg. avg. 2.459 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 20.6 3.9 Inc. frq. avg. 1.720 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 X: az 309.5 el 24.7 pa 33.4 u,v (fr/asec) 961.244 -581.647 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BX..130G9L Output file: /Exps/c192b/v2/1234/No0205/BX.W.92.130G9L



Amp. and Phase vs. time for each freq., 12 segs, 82 APs / seg (41.98 sec / seg.), time ticks 60 sec

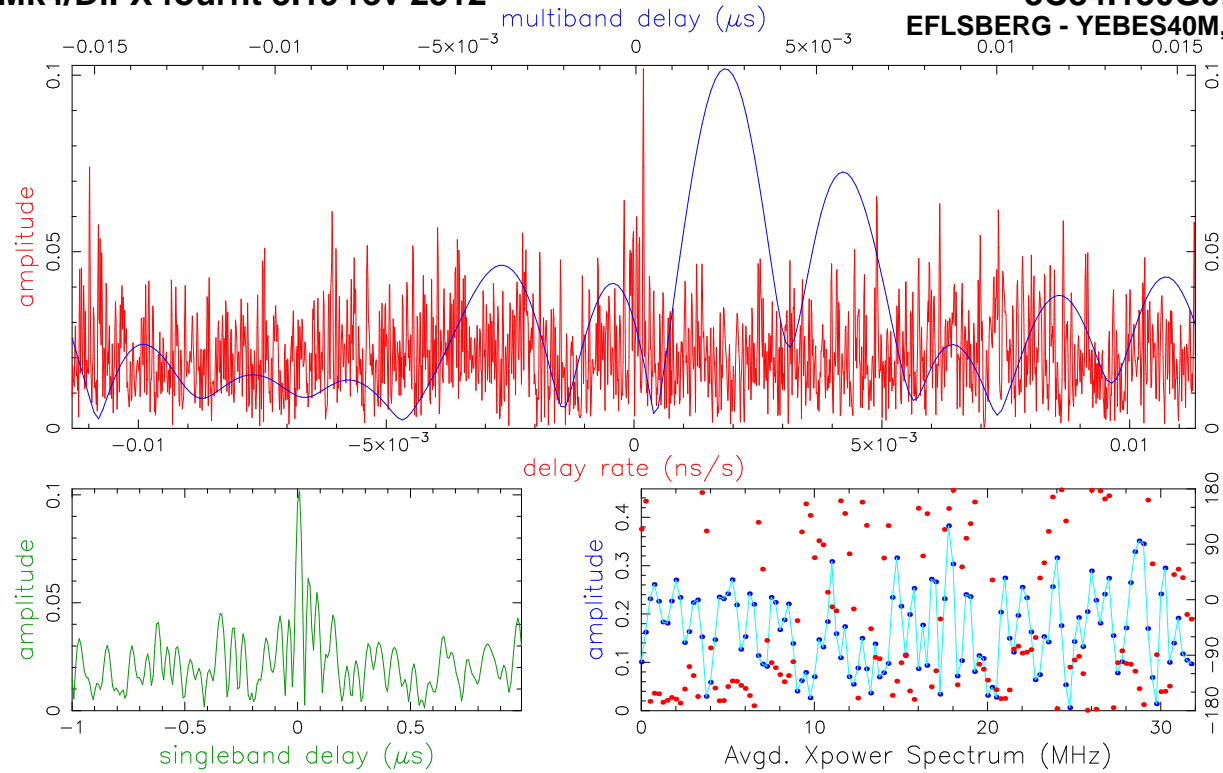


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
141.6	-119.7	-112.2	-153.8	163.5	-139.8	-140.8	176.5	-178.9	-69.3	149.7	-94.0	-145.1	-175.4	-138.4	135.1	Phase	-159.8	
0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.0	0.2	0.2	Ampl.	0.1	
88.6	170.4	6.1	139.3	249.3	121.3	217.2	199.9	85.1	133.3	195.9	182.8	245.6	211.2	246.5	220.5	Sbd box	245.6	
U/L	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	APs used		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp		
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
Group delay (usec)(sbd)	2.21429655683E+02		Apriori delay (usec)		2.20514918791E+02		Resid mbdelay (usec)		8.48689E-03		+/-		1.7E-04					
Sband delay (usec)	2.21425643291E+02		Apriori clock (usec)		7.1368589E+00		Resid sbdelay (usec)		9.10725E-01		+/-		2.8E-03					
Phase delay (usec)	2.20514913637E+02		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-5.15453E-06		+/-		6.0E-07					
Delay rate (us/s)	1.68644434977E-01		Apriori rate (us/s)		1.68647622031E-01		Resid rate (us/s)		-3.18705E-06		+/-		2.2E-09					
Total phase (deg)			-122.2		Apriori accel (us/s/s)		8.01615255044E-06		Resid phase (deg)				-159.8		+/-		18.6	

ph/seg (deg)	RMS	Theor.	Amplitude	0.109 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	27.6	32.2	Search (2048X64)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	56.8	56.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	46.7	37.1	Inc. seg. avg.	0.100	Sample rate(MSamp/s): 64	dr window (ns/s) -0.016 0.016
	62.8	64.8	Inc. frq. avg.	0.118	Data rate(Mb/s): 2048	nlags: 128 t_cohere infinite
						ion window (TEC) 0.00 0.00

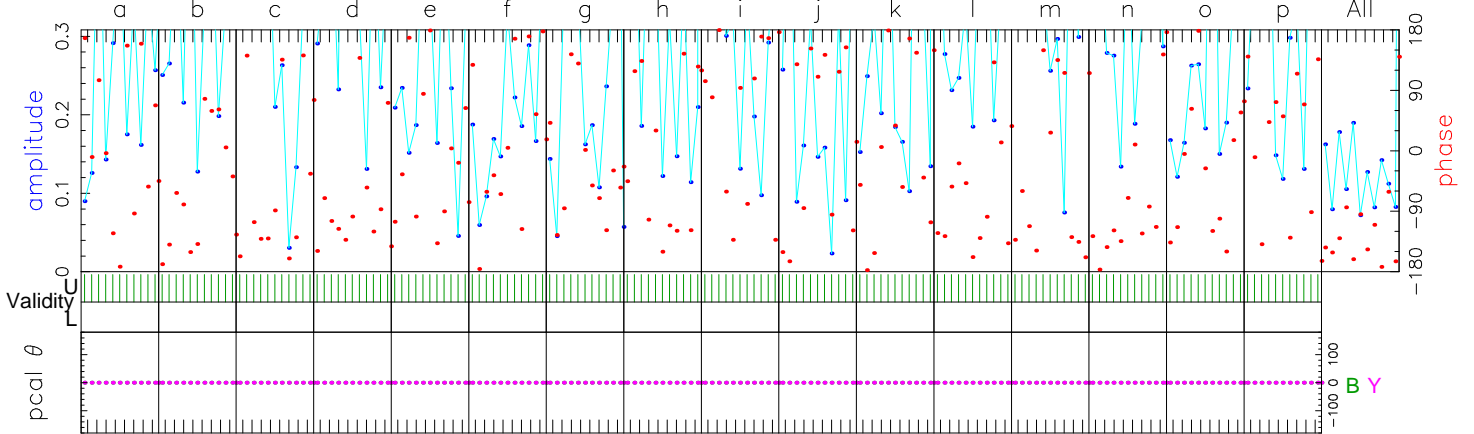
B: az 308.6 el 22.7 pa 41.3 Y: az 306.5 el 22.2 pa 56.2 u,v (fr/asec) -1279.006 1380.812 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BY..130G9L Output file: /Exps/c192b/v2/1234/No0205/BY.W.117.130G9L



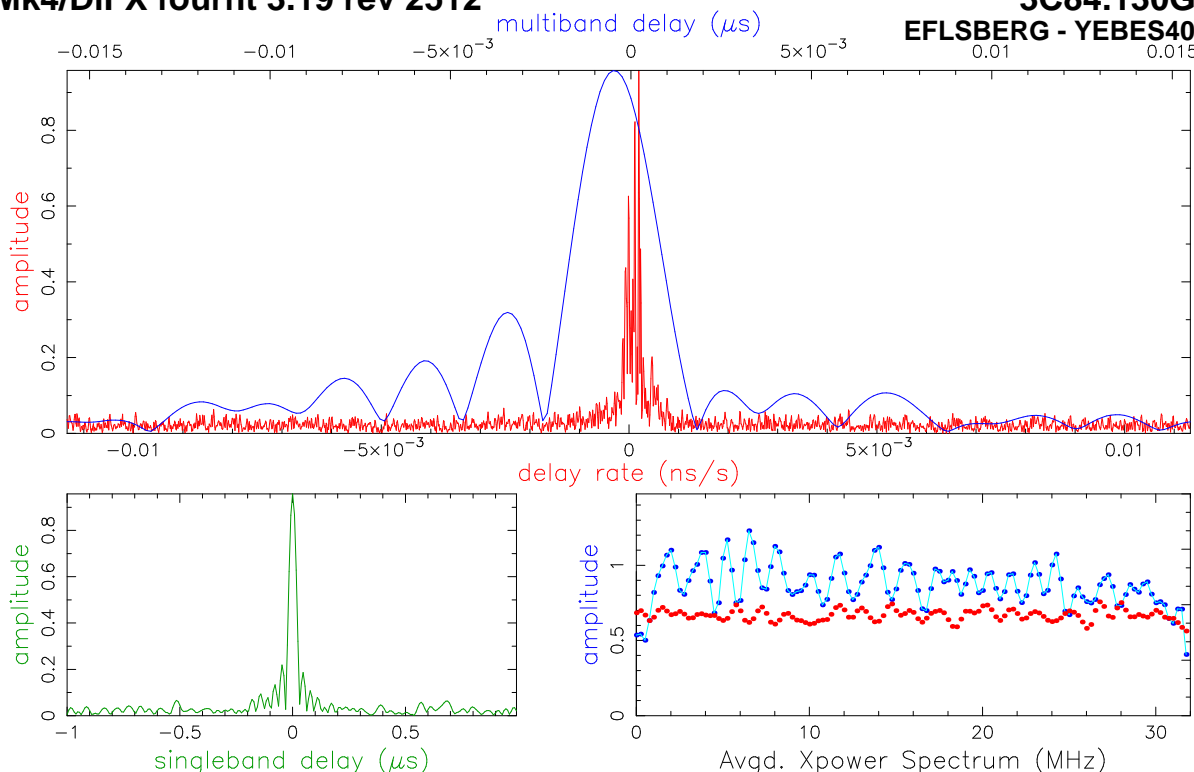
Fringe quality 0
SNR 6.0
Int time 461.959
Amp 0.103
Phase -135.3
PFD 3.3e-01
Delays (us)
SBD 0.005685
MBD 0.002503
Fringe rate (Hz)
0.016520
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090017.41
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112328
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 82 APs / seg (41.98 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-173.8	-71.3	-146.1	-116.5	-101.9	-174.0	-64.7	-160.0	175.3	-177.1	-170.3	-105.8	-143.1	-121.6	-93.7	148.4	Phase	-135.3
	0.1	0.0	0.2	0.3	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.0	Ampl.	0.1
	167.0	141.3	128.5	130.1	255.4	74.0	3.8	110.6	135.2	57.2	86.0	129.0	130.9	136.1	174.2	163.1	Sbd box	129.7
U/L	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	2.20517421356E+02			Apriori delay (usec)			2.20514918791E+02			Resid mbdelay (usec)			2.50256E-03			+/- 1.8E-04		
Sband delay (usec)	2.20520603291E+02			Apriori clock (usec)			7.1368589E+00			Resid sbdelay (usec)			5.68450E-03			+/- 2.9E-03		
Phase delay (usec)	2.20514914428E+02			Apriori clockrate (us/s)			-4.2000000E-07			Resid phdelay (usec)			-4.36313E-06			+/- 6.1E-07		
Delay rate (us/s)	1.68647813811E-01			Apriori rate (us/s)			1.68647622031E-01			Resid rate (us/s)			1.91780E-07			+/- 2.3E-09		
Total phase (deg)				-97.6			Apriori accel (us/s/s)			8.01615255044E-06			Resid phase (deg)			-135.3 +/- 19.0		

ph/seg (deg) RMS Theor. Amplitude 0.103 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 35.6 32.9 Search (2048X64) 0.098 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.1 57.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 45.0 37.9 Inc. seg. avg. 0.105 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 83.0 66.2 Inc. frq. avg. 0.100 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 308.6 el 22.7 pa 41.3 Y: az 306.5 el 22.2 pa 56.2 u,v (fr/asec) -1279.006 1380.812 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BY..130G9L Output file: /Exps/c192b/v2/1234/No0205/BY.W.133.130G9L

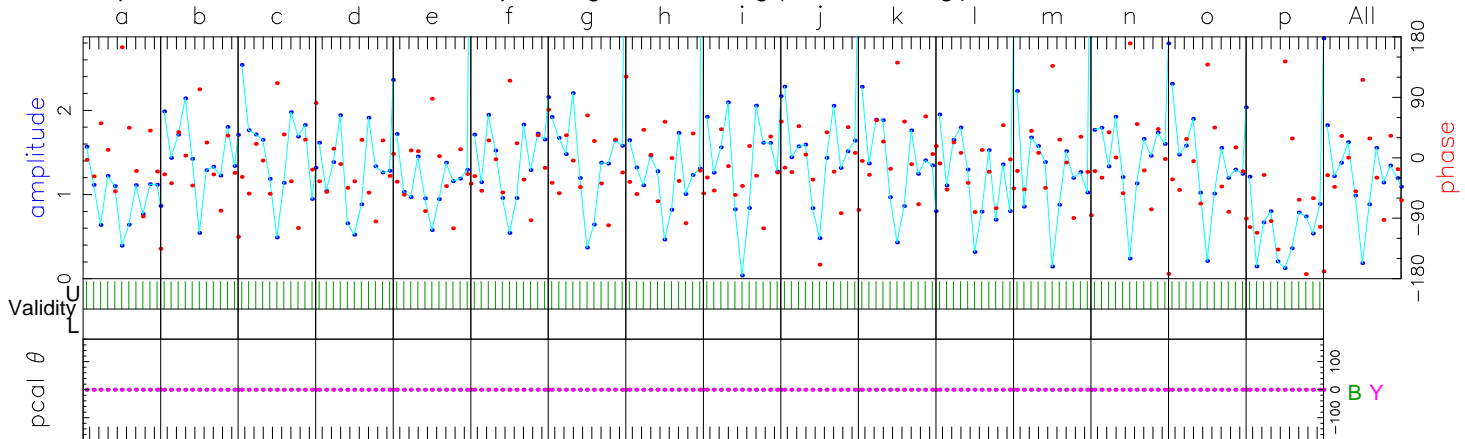


Fringe quality 4

SNR 56.3
 Int time 461.959
 Amp 0.958
 Phase -14.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.000031
 MBD -0.000461
 Fringe rate (Hz)
 0.017010
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192b
 Exper # 16383
 Yr:day 2019:278
 Start 090017.41
 Stop 090759.74
 FRT 090400.00
 Corr/FF/build
 2020:080:062909
 2020:086:112312
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 82 APs / seg (41.98 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-6.8	-7.8	-19.7	-25.7	-25.3	-12.4	-19.7	-21.0	-19.3	-1.5	10.7	-7.2	-9.0	-7.2	-20.9	-90.5	Phase	-14.2				
	0.7	1.2	1.1	1.0	0.9	1.1	1.1	0.9	1.1	1.1	1.1	1.0	1.0	1.1	1.1	0.4	Ampl.	1.0				
	128.5	129.1	129.2	128.9	128.7	129.0	128.7	129.1	129.3	129.5	129.1	128.7	128.7	129.1	128.2	127.9	Sbd box	129.0				
UL	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
Group delay (usec)(sbd)			2.20514457817E+02														Apriori delay (usec)	2.20514918791E+02	Resid mbdelay (usec)	-4.60974E-04	+/-	1.9E-05
Sband delay (usec)			2.20514949791E+02														Apriori clock (usec)	7.1368589E+00	Resid sbdelay (usec)	3.10000E-05	+/-	3.1E-04
Phase delay (usec)			2.20514918333E+02														Apriori clockrate (us/s)	-4.2000000E-07	Resid phdelay (usec)	-4.58290E-07	+/-	6.6E-08
Delay rate (us/s)			1.68647819494E-01														Apriori rate (us/s)	1.68647622031E-01	Resid rate (us/s)	1.97464E-07	+/-	2.5E-10
Total phase (deg)				23.5													Apriori accel (us/s/s)	8.01615255044E-06	Resid phase (deg)	-14.2	+/-	2.0

ph/seg (deg) 54.0 3.5
 amp/seg (%) 51.1 6.2
 ph/frq (deg) 22.8 4.1
 amp/frq (%) 19.8 7.1

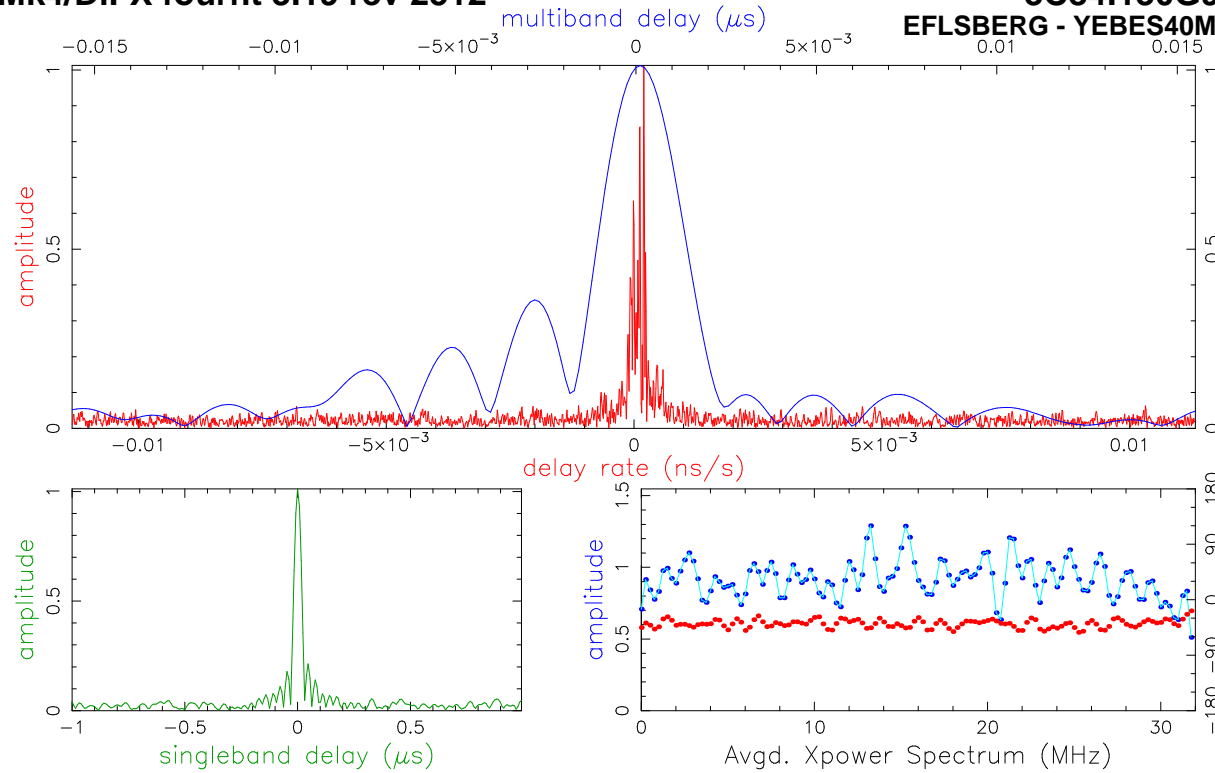
RMS Theor. Amplitude 0.958 +/- 0.017
 Search (2048X64) 0.942
 Interp. 0.000
 Inc. seg. avg. 1.211
 Inc. frq. avg. 0.989

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(MISamp/s): 64
 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

B: az 308.6 el 22.7 pa 41.3 Y: az 306.5 el 22.2 pa 56.2 u,v (fr/asec) -1279.006 1380.812 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BY..130G9L Output file: /Exps/c192b/v2/1234/No0205/BY.W.85.130G9L

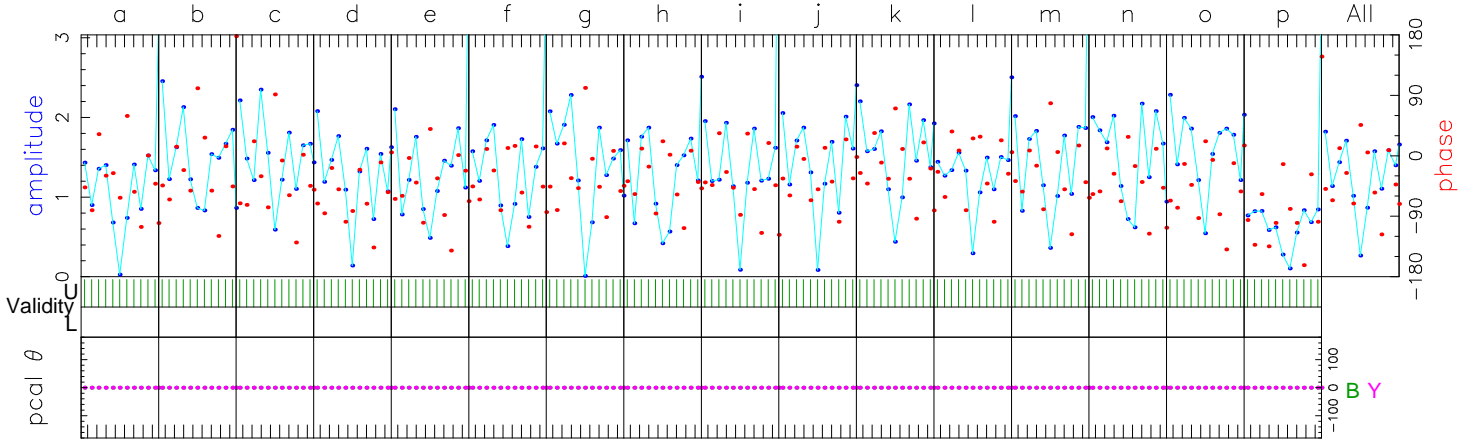


Fringe quality 4

SNR 59.5
Int time 461.959
Amp 1.013
Phase -36.1
PFD 0.0e+00
Delays (us)
SBD 0.000650
MBD 0.000120
Fringe rate (Hz) 0.017060
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

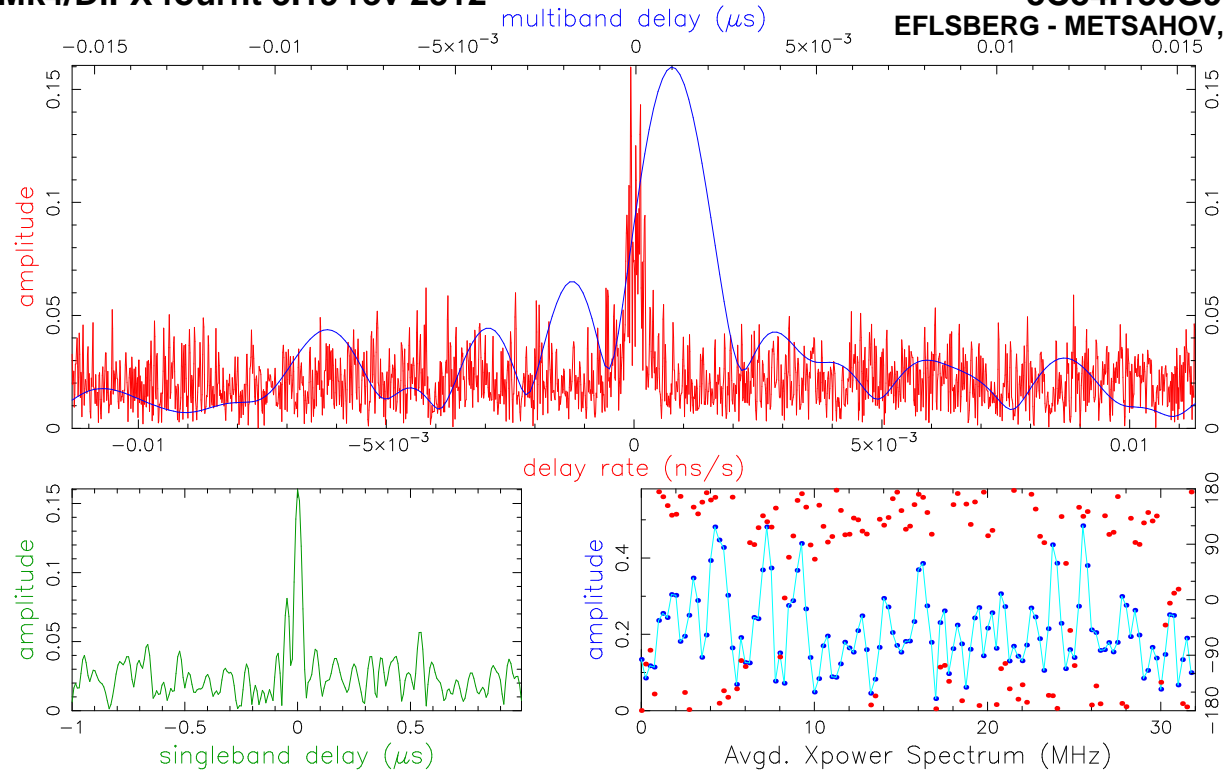
Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090017.41
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112317
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 82 APs / seg (41.98 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-30.3	-31.7	-44.7	-56.2	-48.0	-32.5	-38.4	-31.8	-30.1	-22.0	-16.5	-20.1	-28.2	-34.4	-54.2	-99.2		Phase	-36.1
	0.8	1.1	1.1	1.1	0.9	1.0	1.2	1.0	1.0	1.2	1.2	0.9	1.1	1.3	1.2	0.5		Ampl.	1.0
	129.4	129.4	128.7	128.8	129.6	129.1	128.9	129.0	129.3	129.1	129.2	128.7	128.9	128.9	128.5	128.8		Sbd box	129.1
U/L	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0	903/0		APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	
																		Chan ids	
																		Tracks	
Group delay (usec)(sbd)	2.20515039224E+02			Apriori delay (usec)			2.20514918791E+02			Resid mbdelay (usec)			1.20433E-04			+/- 1.8E-05			
Sband delay (usec)	2.20515568791E+02			Apriori clock (usec)			7.1368589E+00			Resid sbdelay (usec)			6.50000E-04			+/- 2.9E-04			
Phase delay (usec)	2.20514917626E+02			Apriori clockrate (us/s)			-4.2000000E-07			Resid phdelay (usec)			-1.16547E-06			+/- 6.2E-08			
Delay rate (us/s)	1.68647820076E-01			Apriori rate (us/s)			1.68647622031E-01			Resid rate (us/s)			1.98045E-07			+/- 2.3E-10			
Total phase (deg)	1.5			Apriori accel (us/s/s)			8.01615255044E-06			Resid phase (deg)			-36.1			+/- 1.9			

ph/seg (deg) 44.7 3.3 Search (2048X64) 1.013 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 49.1 5.8 Interp. 0.997 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 20.6 3.9 Inc. seg. avg. 1.264 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 19.4 6.7 Inc. frq. avg. 1.047 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 308.6 el 22.7 pa 41.3 Y: az 306.5 el 22.2 pa 56.2 u,v (fr/asec) -1279.006 1380.812 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BY..130G9L Output file: /Exps/c192b/v2/1234/No0205/BY.W.99.130G9L

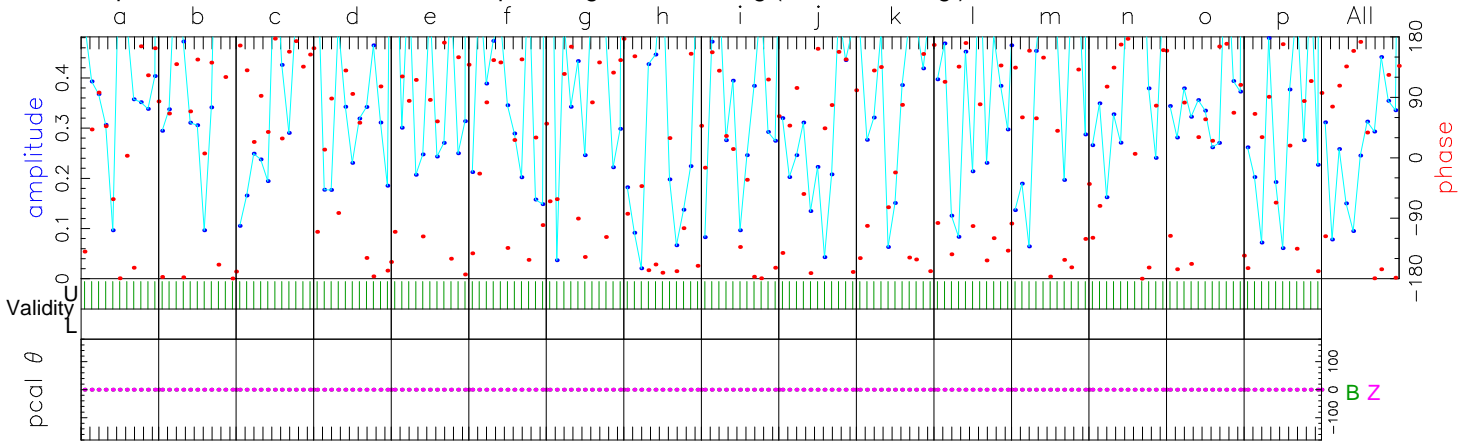


Fringe quality 9

SNR 9.6
 Int time 479.285
 Amp 0.161
 Phase 160.1
 PFD 2.8e-13
 Delays (us)
 SBD 0.001699
 MBD 0.001011
 Fringe rate (Hz)
 -0.005630
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

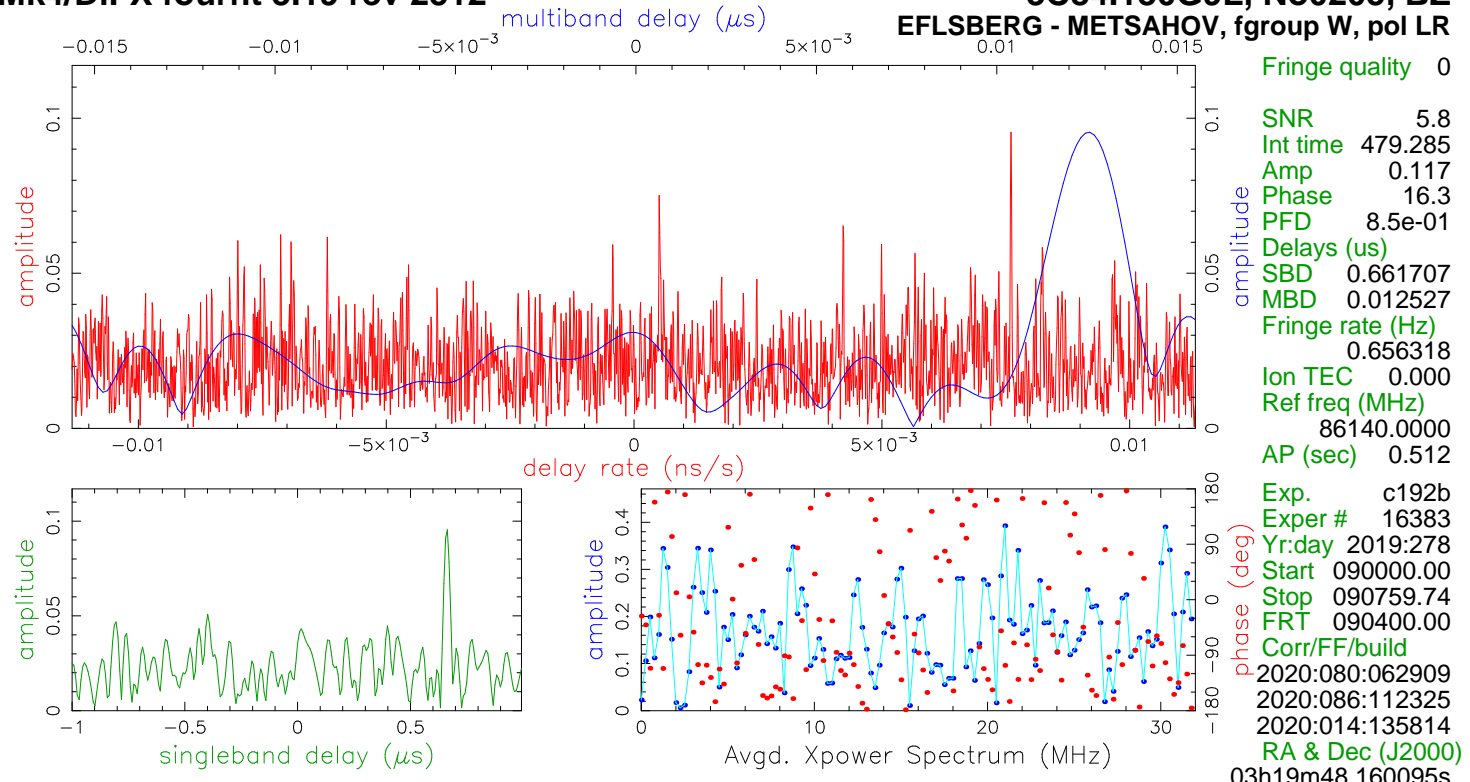
Exp. c192b
 Exper # 16383
 Yr:day 2019:278
 Start 090000.00
 Stop 090759.74
 FRT 090400.00
 Corr/FF/build
 2020:080:062909
 2020:086:112320
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec

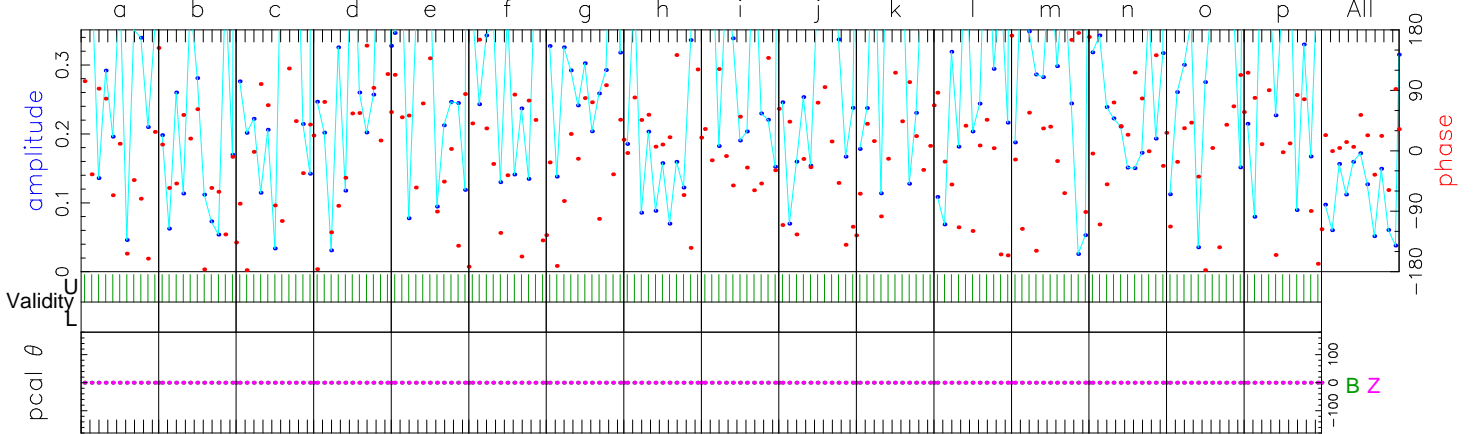


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All							
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used							
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs							
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase							
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp							
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		Chan ids							
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks							
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids							
Group delay (usec)(sbd)		2.22374512896E+02																Apriori delay (usec)	2.22373502134E+02		Resid mbdelay (usec)	1.01076E-03	+/-	1.1E-04	
Sband delay (usec)		2.22375201134E+02																	Apriori clock (usec)	1.6627869E+01		Resid sbdelay (usec)	1.69900E-03	+/-	1.8E-03
Phase delay (usec)		2.22373507298E+02																	Apriori clockrate (us/s)	-2.1629280E-07		Resid phdelay (usec)	5.16433E-06	+/-	3.8E-07
Delay rate (us/s)		-2.29536707717E-01																	Apriori rate (us/s)	-2.29536642361E-01		Resid rate (us/s)	-6.53559E-08	+/-	1.4E-09
Total phase (deg)					330.7														Apriori accel (us/s/s)	-8.30089350396E-06		Resid phase (deg)	160.1	+/-	11.9

ph/seg (deg) 57.1 20.6 Search (2048X64) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 94.6 36.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.7 23.8 Inc. seg. avg. 0.247 Sample rate(MISamp/s): 64 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 39.4 41.6 Inc. frq. avg. 0.158 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 Z: az 317.3 el 22.0 pa 28.8 u,v (fr/asec) 1744.257 -1233.075 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BZ..130G9L Output file: /Exps/c192b/v2/1234/No0205/BZ.W.106.130G9L



Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



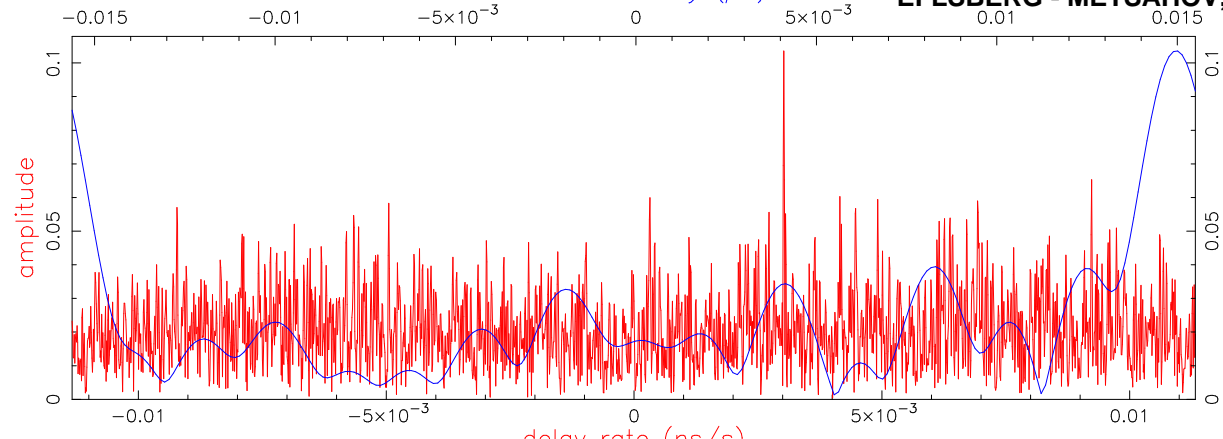
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
-2.9	-16.6	19.6	65.1	65.0	9.1	1.0	81.0	-11.2	-9.0	15.3	-1.4	-25.4	8.4	37.2	51.0	51.0	Phase	16.3
0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
165.0	207.9	195.1	117.3	97.3	81.4	28.9	55.5	11.5	164.7	214.0	169.3	11.1	112.4	33.3	98.8	98.8	Sbd box	213.7
U/L	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
Group delay (usec)(sbd)	2.23042278669E+02		Apriori delay (usec)		2.22373502134E+02		Resid mbdelay (usec)		1.25265E-02		+/-		1.9E-04					
Sband delay (usec)	2.23035209134E+02		Apriori clock (usec)		1.6627869E+01		Resid sbdelay (usec)		6.61707E-01		+/-		3.0E-03					
Phase delay (usec)	2.22373502659E+02		Apriori clockrate (us/s)		-2.1629280E-07		Resid phdelay (usec)		5.24379E-07		+/-		6.4E-07					
Delay rate (us/s)	-2.29529023155E-01		Apriori rate (us/s)		-2.29536642361E-01		Resid rate (us/s)		7.61921E-06		+/-		2.3E-09					
Total phase (deg)			186.8		Apriori accel (us/s/s)		-8.30089350396E-06		Resid phase (deg)		16.3		+/-		19.8			

	RMS	Theor.	Amplitude	0.117 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	38.1	34.4	Search (2048X64)	0.094	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	50.6	60.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	33.6	39.7	Inc. seg. avg.	0.111	Sample rate(MISamp/s): 64	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.2	69.3	Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 128	t_cohere infinite

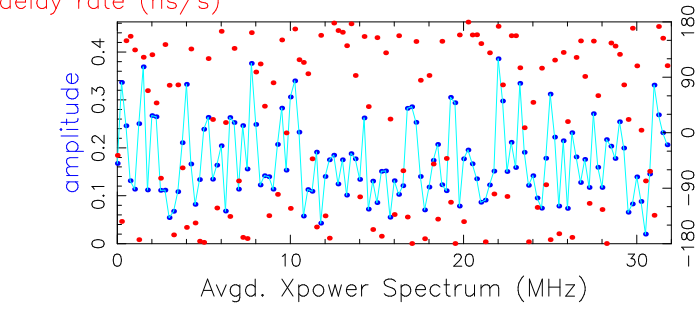
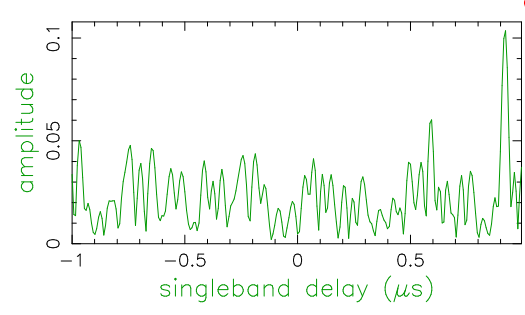
B: az 308.6 el 22.7 pa 41.3 Z: az 317.3 el 22.0 pa 28.8 u,v (fr/asec) 1744.257 -1233.075 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BZ..130G9L Output file: /Exps/c192b/v2/1234/No0205/BZ.W.123.130G9L

multiband delay (μ s)

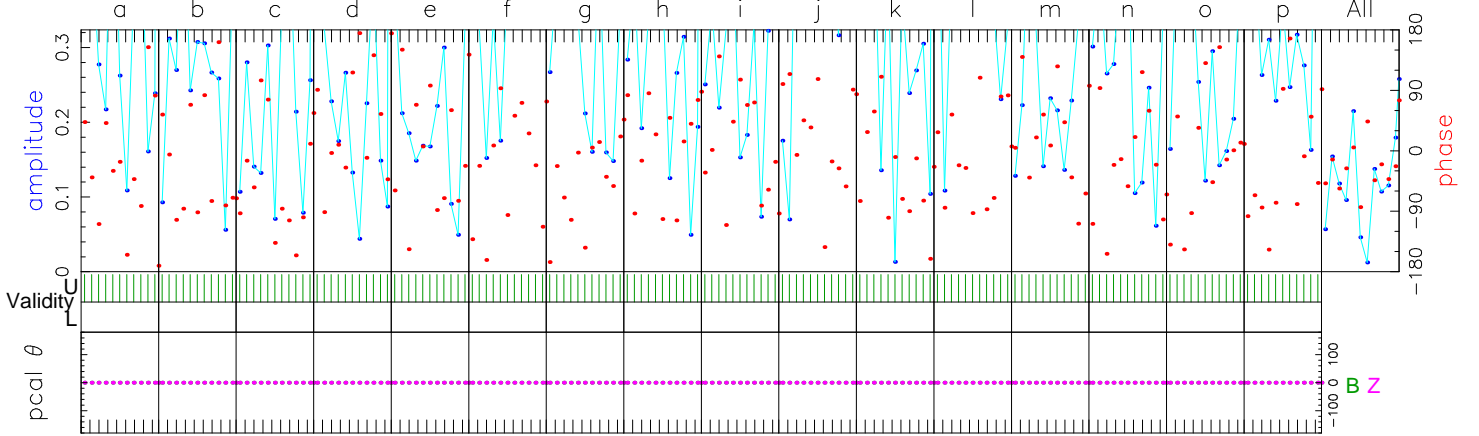


Fringe quality 0
SNR 6.3
Int time 479.285
Amp 0.108
Phase -26.7
PFD 9.2e-02
Delays (us)
SBD 0.919342
MBD 0.014926
Fringe rate (Hz) 0.260959
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

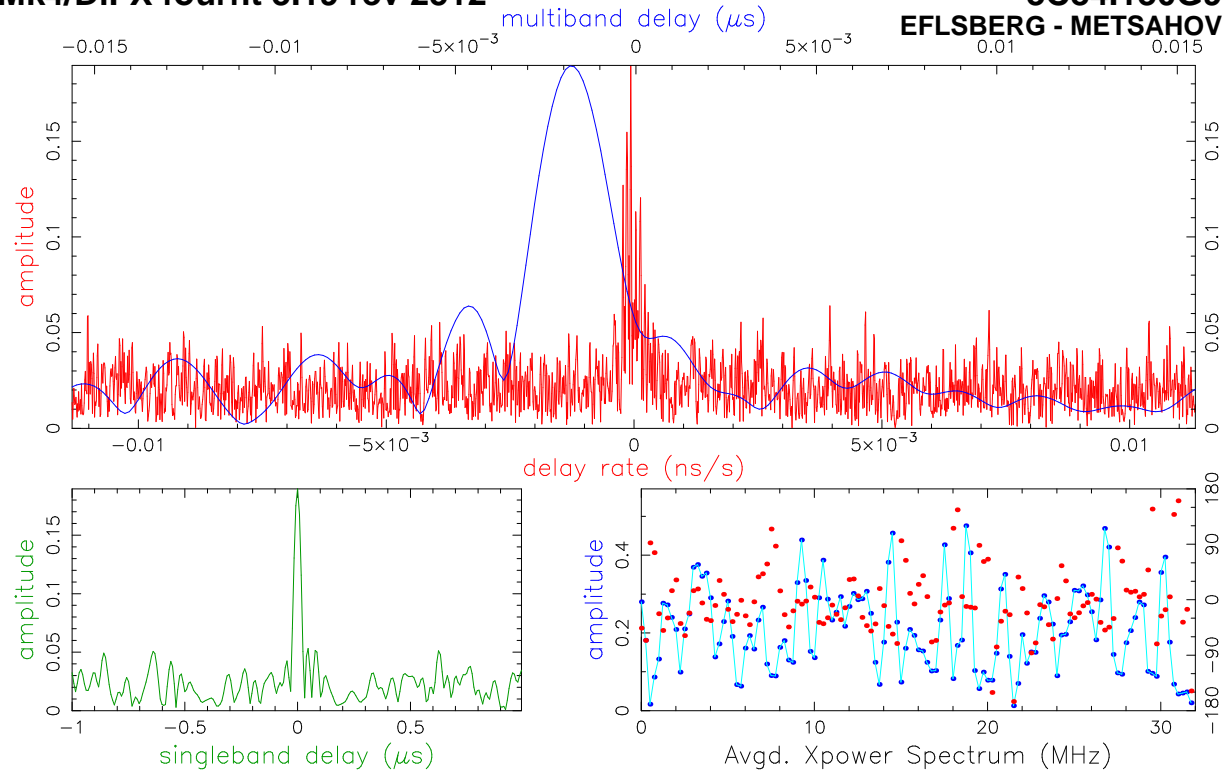


Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build 2020:080:062909
2020:086:112330
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
-34.1	-69.1	-69.5	31.7	-48.7	-13.8	-39.1	7.6	2.5	19.0	-43.3	2.6	-23.0	-37.2	-16.9	-67.8	Phase	-26.7
0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
139.3	191.9	204.7	240.8	251.9	227.6	78.8	138.8	149.6	86.0	42.8	29.2	136.3	82.6	103.1	232.0	Sbd box	246.7
U/L 937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	APs used	
B 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
B 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
B W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
Group delay (usec)(sbd)	2.23294677807E+02		Apriori delay (usec)		2.22373502134E+02		Resid mbdelay (usec)		1.49257E-02		+/- 1.7E-04						
Sband delay (usec)	2.23292844134E+02		Apriori clock (usec)		1.6627869E+01		Resid sbdelay (usec)		9.19342E-01		+/- 2.7E-03						
Phase delay (usec)	2.22373501275E+02		Apriori clockrate (us/s)		-2.1629280E-07		Resid phdelay (usec)		-8.59454E-07		+/- 5.9E-07						
Delay rate (us/s)	-2.29533612888E-01		Apriori rate (us/s)		-2.29536642361E-01		Resid rate (us/s)		3.02947E-06		+/- 2.1E-09						
Total phase (deg)	143.9		Apriori accel (us/s/s)		-8.30089350396E-06		Resid phase (deg)		-26.7		+/- 18.3						
ph/seg (deg)	RMS	Theor.	Amplitude		0.108 +/- 0.017		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5								
amp/seg (%)	32.4	31.6	Search (2048X64)		0.096		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000						
ph/frq (deg)	54.8	55.2	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016 0.016				
amp/frq (%)	32.8	36.5	Inc. seg. avg.		0.101		Sample rate(MISamp/s): 64		dr window (ns/s)		-0.011 0.011						
	40.1	63.8	Inc. frq. avg.		0.102		Data rate(Mb/s): 2048		nlags: 128		t_cohere infinite		ion window (TEC)		0.00 0.00		

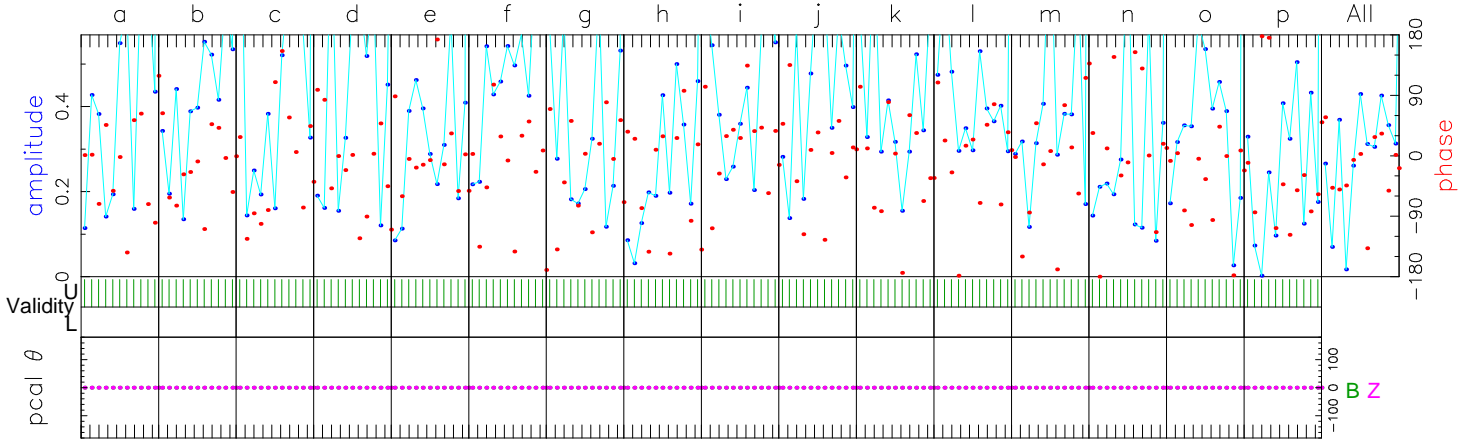


Fringe quality 9

SNR 11.4
Int time 479.285
Amp 0.190
Phase -6.8
PFD 3.5e-21
Delays (us)
SBD -0.000798
MBD -0.001798
Fringe rate (Hz)
-0.005775
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192b
Exper # 16383
Yr:day 2019:278
Start 090000.00
Stop 090759.74
FRT 090400.00
Corr/FF/build
2020:080:062909
2020:086:112314
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 12 segs, 85 APs / seg (43.52 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All		
	-36.2	-18.3	6.2	-35.4	-4.2	2.8	10.3	22.0	26.2	1.0	-4.2	16.8	-0.9	4.3	-25.3	-65.3		Phase	-6.8	
	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		Ampl.	0.2	
	221.5	128.9	130.8	128.2	128.7	129.1	127.0	54.7	15.7	32.4	123.3	127.9	128.1	66.8	128.2	46.9		Sbd box	128.9	
UL	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0	937/0		APs used		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs		
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		PC amp		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks		
																			Chan ids	
																			Tracks	
Group delay (usec)(sbd)	2.22371704396E+02			Apriori delay (usec)			2.22373502134E+02			Resid mbdelay (usec)			-1.79774E-03			+/- 9.5E-05				
Sband delay (usec)	2.22372704134E+02			Apriori clock (usec)			1.6627869E+01			Resid sbdelay (usec)			-7.98000E-04			+/- 1.5E-03				
Phase delay (usec)	2.22373501915E+02			Apriori clockrate (us/s)			-2.1629280E-07			Resid phdelay (usec)			-2.18946E-07			+/- 3.3E-07				
Delay rate (us/s)	-2.29536709398E-01			Apriori rate (us/s)			-2.29536642361E-01			Resid rate (us/s)			-6.70366E-08			+/- 1.2E-09				
Total phase (deg)	163.8			Apriori accel (us/s/s)			-8.30089350396E-06			Resid phase (deg)			-6.8			+/- 10.1				

ph/seg (deg) 53.1 17.5 Search (2048X64) 0.186 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.9 30.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.1 20.2 Inc. seg. avg. 0.272 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 25.2 35.2 Inc. frq. avg. 0.193 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 308.6 el 22.7 pa 41.3 Z: az 317.3 el 22.0 pa 28.8 u,v (fr/asec) 1744.257 -1233.075 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192b/v2/1234/No0205/BZ..130G9L Output file: /Exps/c192b/v2/1234/No0205/BZ.W.88.130G9L simultaneous interpolator