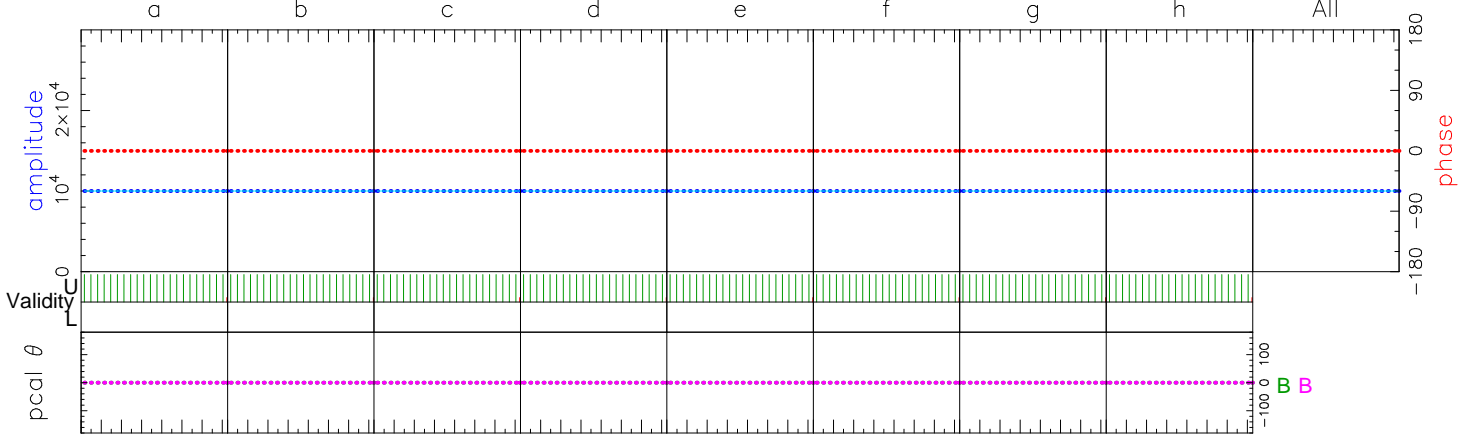


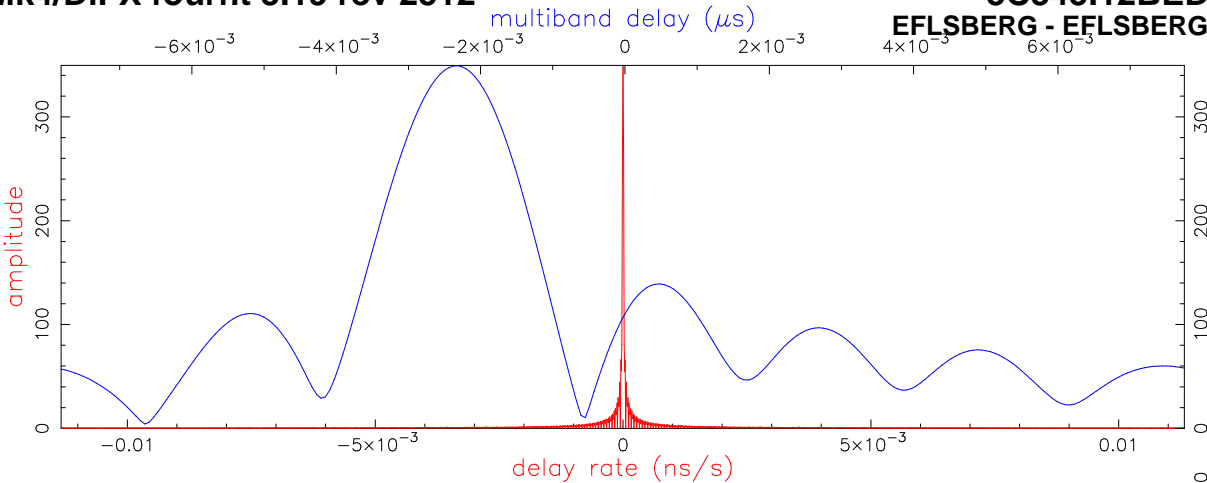
Fringe quality 9
SNR 560300.1
Int time 419.804
Amp 9999.999
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Start 2019:276
Stop 2019:276
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165550
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



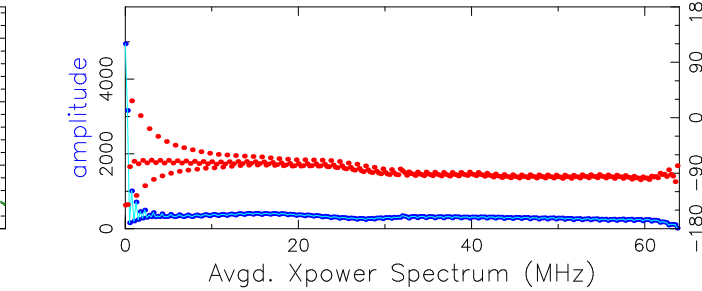
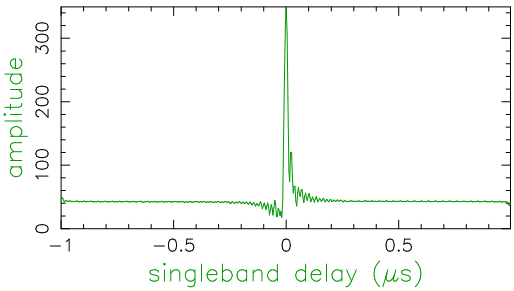
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	Ampl.	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	-2.26642302649E-21	-2.26642302649E-21	-2.26642302649E-21	-2.26642302649E-21	-2.26642302649E-21	-2.26642302649E-21	-2.26642302649E-21	-2.26642302649E-21	Resid phdelay (usec)	-2.26642E-21 +/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.7E-14
Total phase (deg)			-0.0						Resid phase (deg)	-0.0 +/- 0.0

RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 269.2 el 56.7 pa 55.8 B: az 269.2 el 56.7 pa 55.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BB..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BB.W.25.12BED8



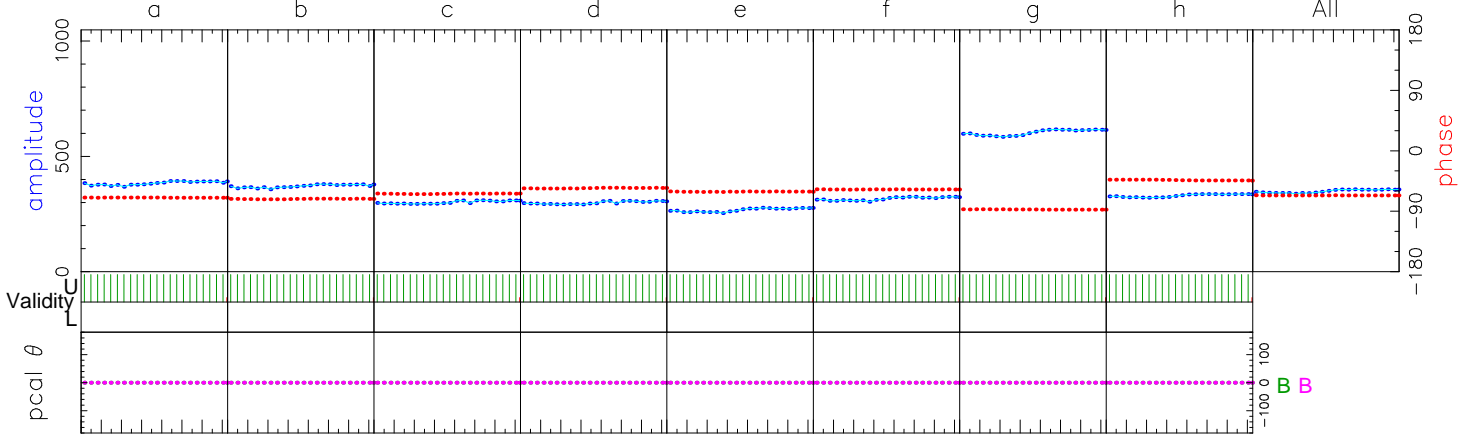
Fringe quality 7

SNR 19586.2
Int time 419.804
Amp 349.567
Phase -66.4
PFD 0.0e+00
Delays (us)
SBD -0.000402
MBD -0.002352
Fringe rate (Hz)
0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



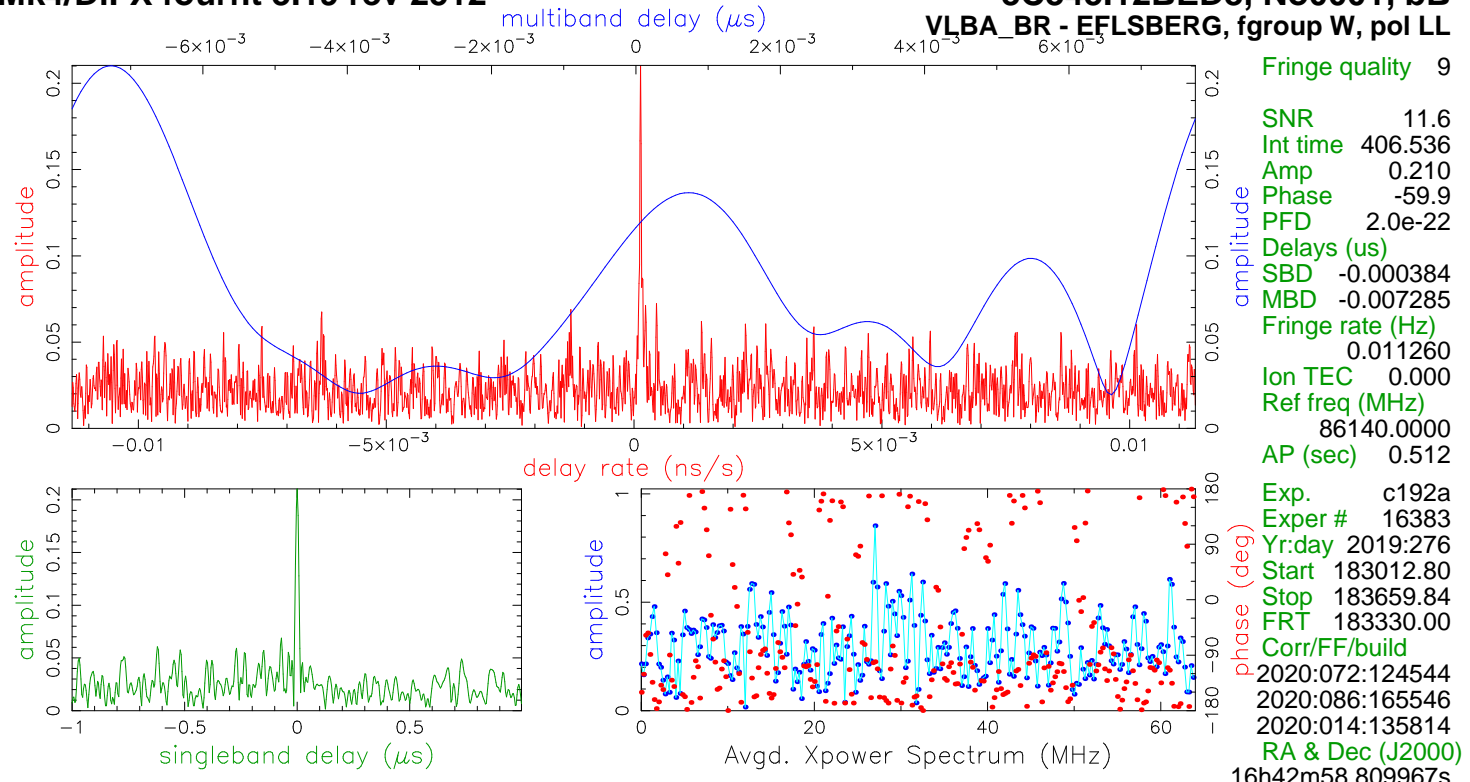
Exp. c192a
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165554
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

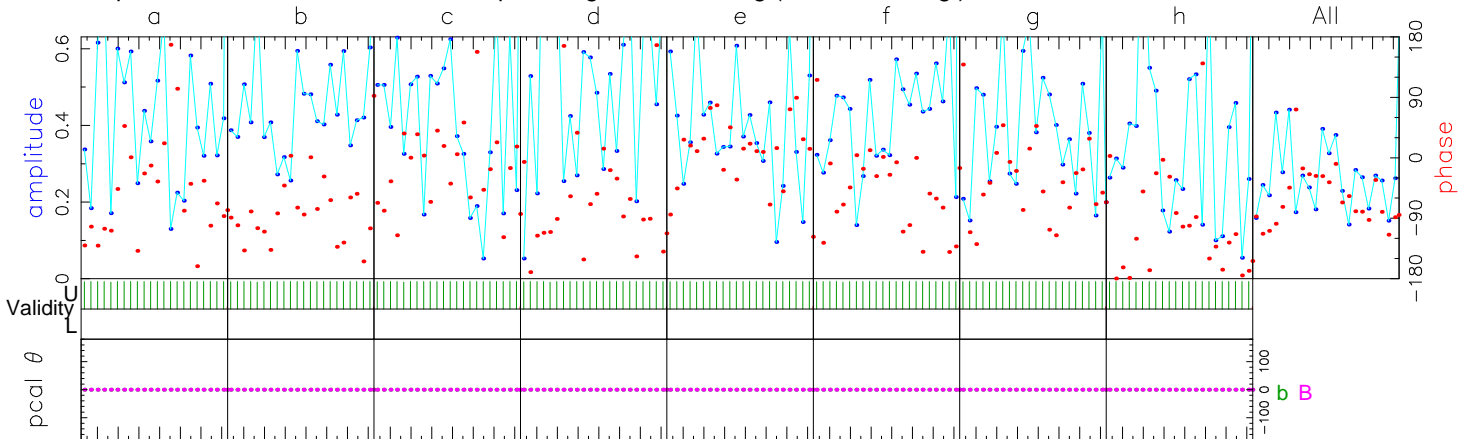


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.7	-71.7	-63.9	-55.6	-60.8	-57.5	-87.4	-43.6	Phase	-66.4
	383.6	371.1	301.0	299.2	267.5	316.3	603.3	330.0	Ampl.	359.0
	256.7	256.2	256.0	257.3	256.0	256.5	257.5	252.9	Sbd box	256.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	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	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.35187500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.35187E-03	+/- 5.5E-08
Sband delay (usec)	-4.02250000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-4.02250E-04	+/- 4.4E-07
Phase delay (usec)	-2.14131248584E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.14131E-06	+/- 1.9E-10
Delay rate (us/s)	3.47193233596E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.47193E-11	+/- 7.8E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-66.4	+/- 0.0

	RMS	Theor.	Amplitude	349.567 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.1	0.0	Search (2048X32)	347.422	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
ph/frq (deg)	14.3	0.0	Inc. seg. avg.	349.184	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	28.4	0.0	Inc. frq. avg.	358.993	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
B: az 269.2 el 56.7 pa 55.8	B: az 269.2 el 56.7 pa 55.8		u,v (fr/asec) 0.000 0.000		ion window (TEC) 0.00 0.00	



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



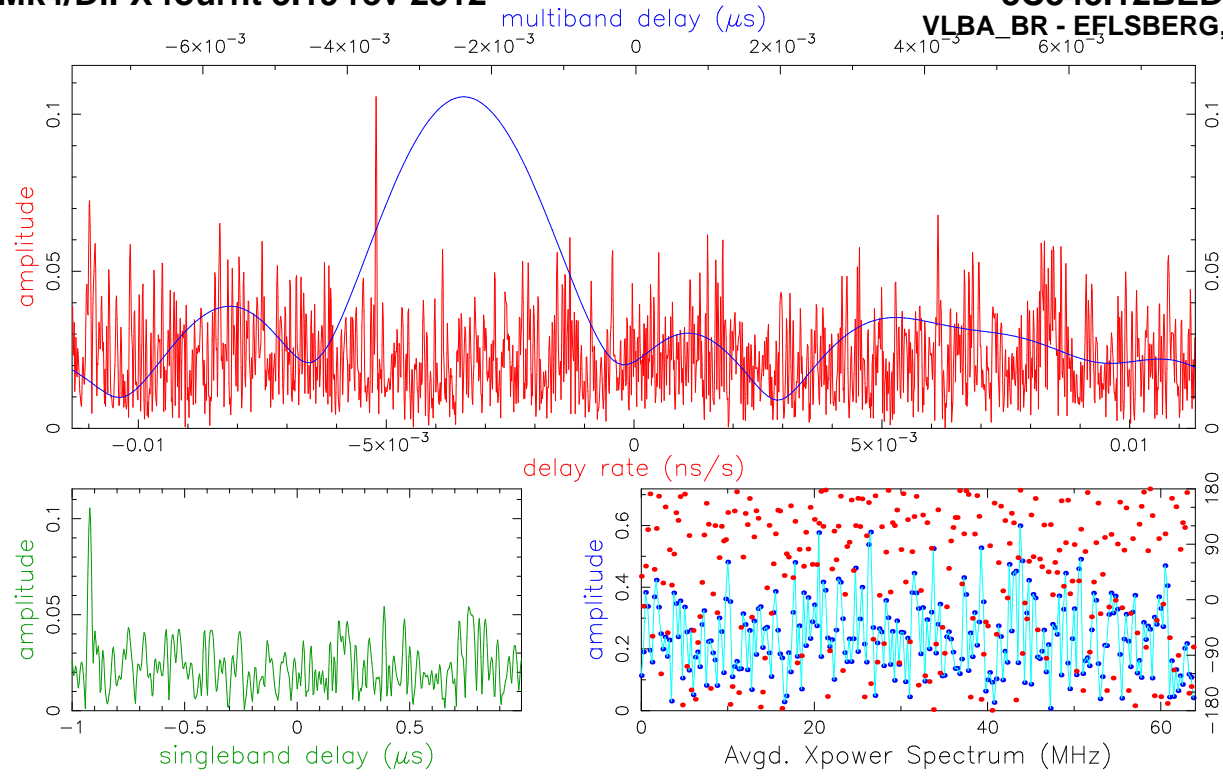
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.3	-88.5	-16.0	-96.2	10.0	-56.5	-36.5	-113.8	Phase	-59.9
	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	Ampl.	0.3
	255.8	257.1	257.0	256.7	256.3	256.2	255.8	255.9	Sbd box	256.9
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	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	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.66420702567E+03	Apriori delay (usec)	-5.66419974077E+03	Resid mbdelay (usec)	-7.28490E-03	+/-	9.4E-05
Sband delay (usec)	-5.66420012477E+03	Apriori clock (usec)	-1.7451761E+01	Resid sbdelay (usec)	-3.84000E-04	+/-	7.4E-04
Phase delay (usec)	-5.66419974270E+03	Apriori clockrate (us/s)	-4.2395080E-08	Resid phdelay (usec)	-1.93125E-06	+/-	3.2E-07
Delay rate (us/s)	1.33643516241E+00	Apriori rate (us/s)	1.33643503169E+00	Resid rate (us/s)	1.30717E-07	+/-	1.4E-09
Total phase (deg)	-301.2	Apriori accel (us/s/s)	2.80562043911E-05	Resid phase (deg)	-59.9	+/-	9.9

ph/seg (deg)	42.9	Theor.	23.7	Amplitude	0.210 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	48.8		41.3	Search (2048X32)	0.208	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	45.5		14.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	35.4		24.4	Inc. seg. avg.	0.243	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.261	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

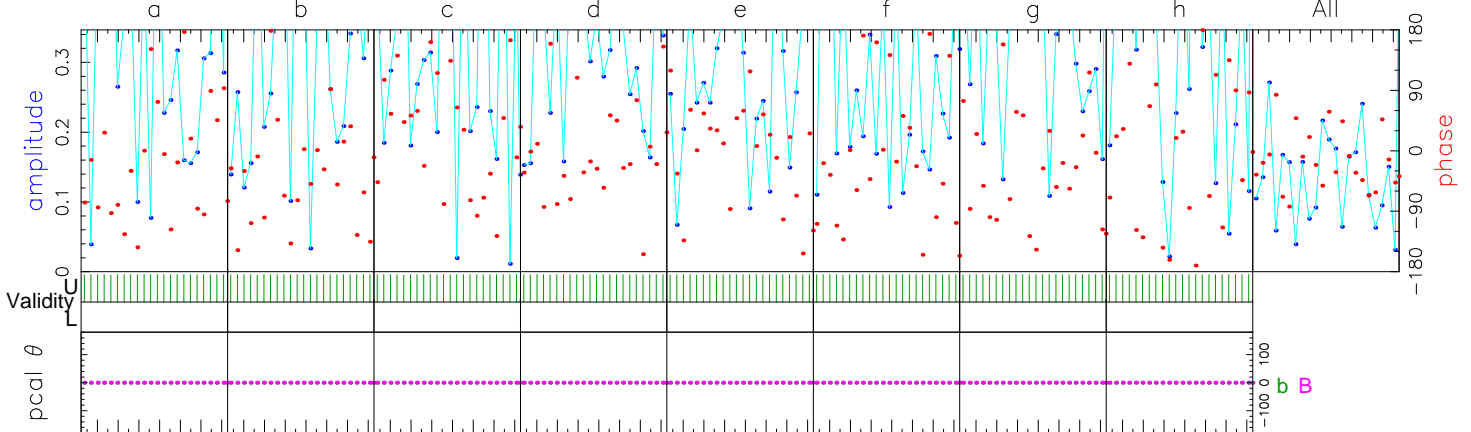
b: az 66.1 el 33.9 pa -52.6 B: az 269.2 el 56.7 pa 55.8 u,v (fr/asec) -9910.522 1769.593 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bB..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bB.W.5.12BED8



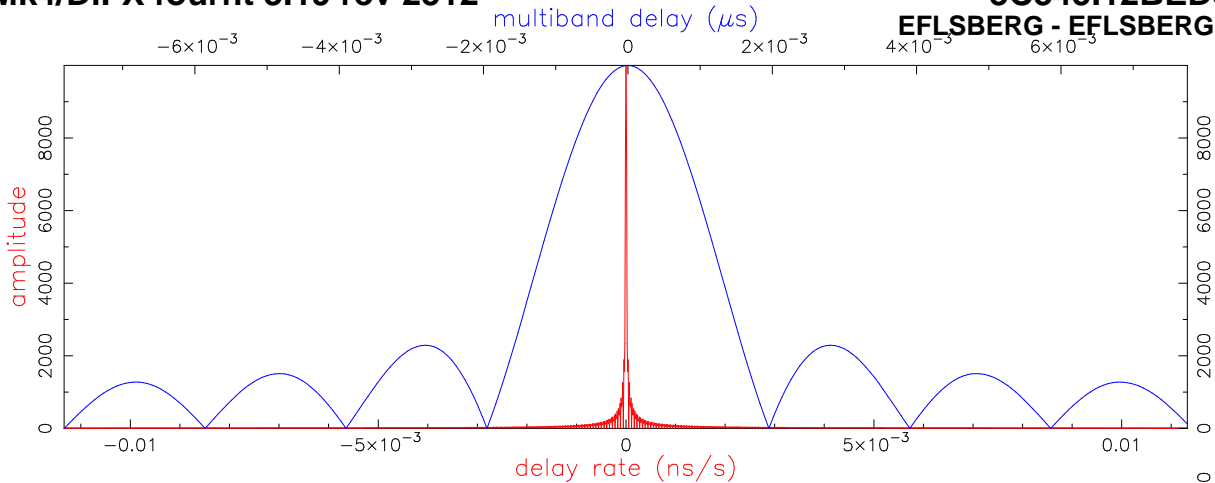
Fringe quality 0
 SNR 5.8
 Int time 406.536
 Amp 0.116
 Phase -22.3
 PFD 7.5e-01
 Delays (us)
 SBD -0.921301
 MBD -0.002375
 Fringe rate (Hz)
 -0.449147
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183012.80
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165557
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-28.5	-44.1	12.7	-17.2	15.9	-53.9	-33.8	130.7	Phase	-22.3
	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.0	Ampl.	0.1
	149.2	20.7	309.6	317.5	285.2	56.3	470.7	105.2	Sbd box	21.1
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	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	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.66512399115E+03		Apriori delay (usec)		-5.66419974077E+03		Resid mbdelay (usec)		-2.37538E-03	+/- 1.9E-04
Sband delay (usec)	-5.66512104177E+03		Apriori clock (usec)		-1.7451761E+01		Resid sbdelay (usec)		-9.21301E-01	+/- 1.5E-03
Phase delay (usec)	-5.66419974149E+03		Apriori clockrate (us/s)		-4.2395080E-08		Resid phdelay (usec)		-7.19694E-07	+/- 6.3E-07
Delay rate (us/s)	1.33642981754E+00		Apriori rate (us/s)		1.33643503169E+00		Resid rate (us/s)		-5.21416E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.80562043911E-05		Resid phase (deg)		-22.3	+/- 19.7

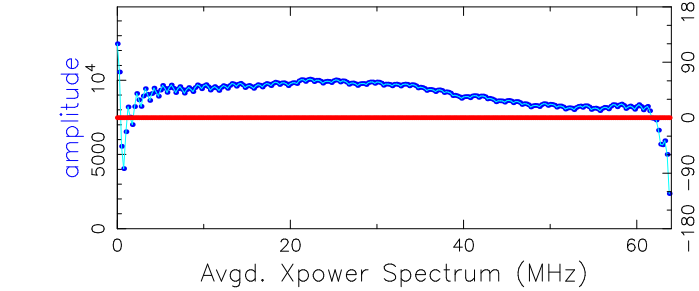
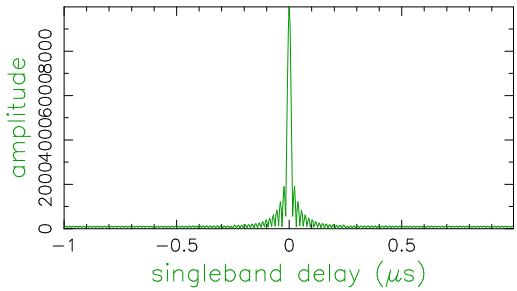
ph/seg (deg) 45.7 47.1 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.0 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 68.0 27.8 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.1 48.5 Inc. frq. avg. 0.116 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 66.1 el 33.9 pa -52.6 B: az 269.2 el 56.7 pa 55.8 u,v (fr/asec) -9910.522 1769.593 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bB..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bB.W.55.12BED8



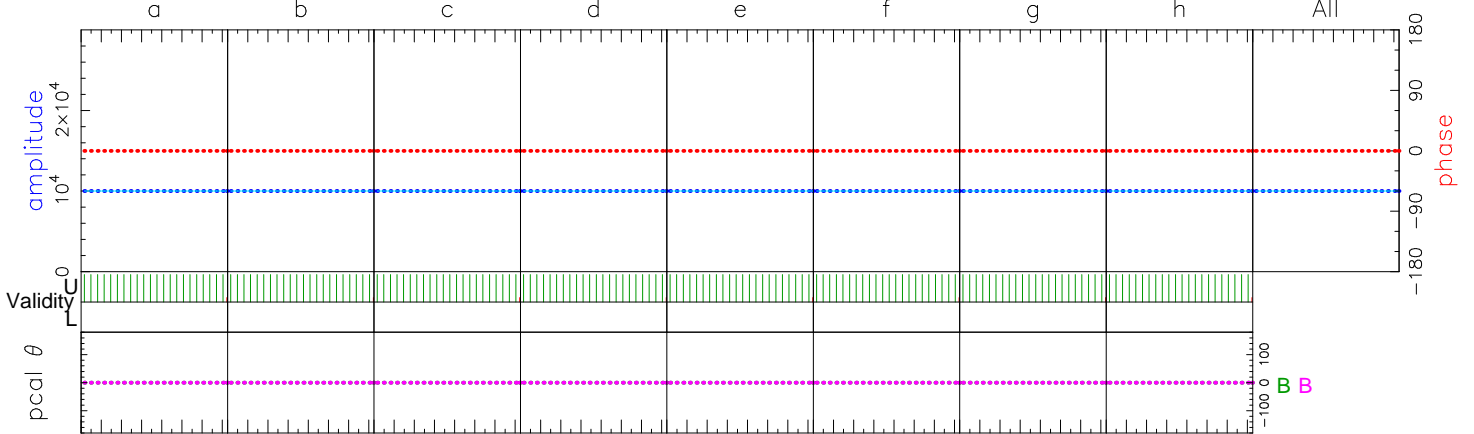
Fringe quality 9

SNR 560300.1
Int time 419.804
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
Start 2019:276
Stop 2019:276
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165547
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

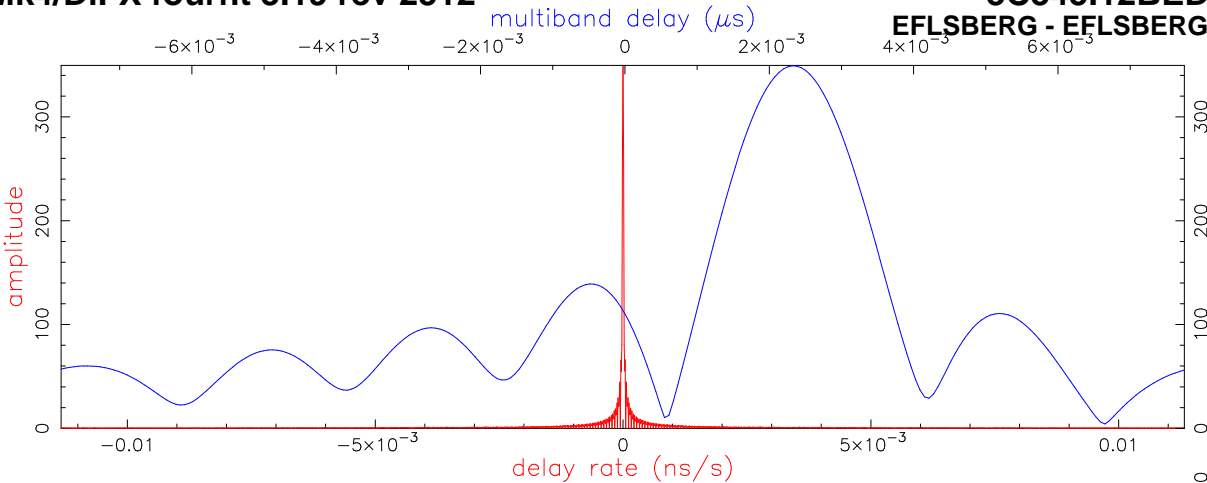


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) 5.15780869191E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.15781E-20 +/- 6.6E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.7E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

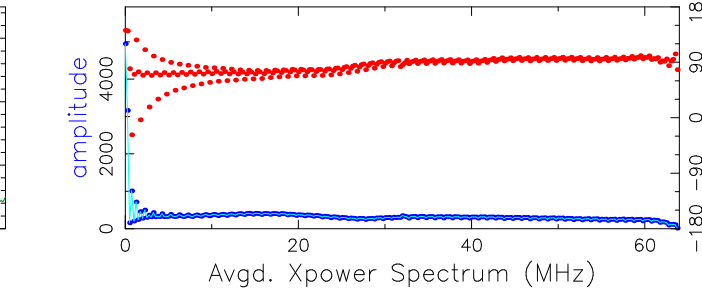
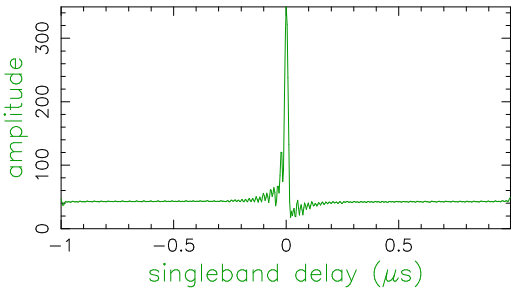
RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 B: az 269.2 el 56.7 pa 55.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BB..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BB.W.6.12BED8



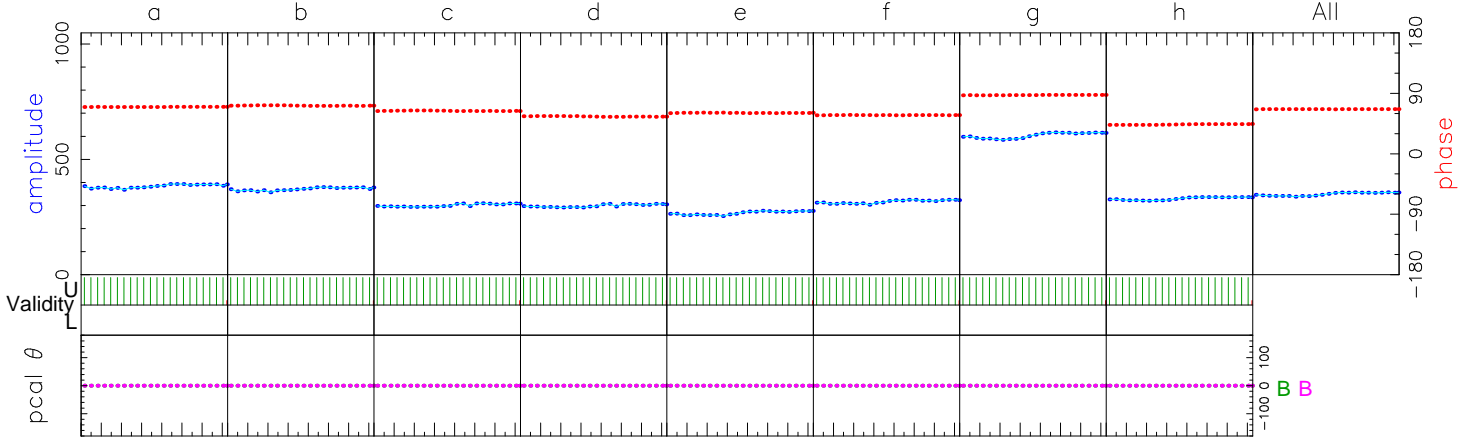
Fringe quality 7

SNR 19586.2
Int time 419.804
Amp 349.567
Phase 66.4
PFD 0.0e+00
Delays (us)
SBD 0.000402
MBD 0.002352
Fringe rate (Hz)
-0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165558
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



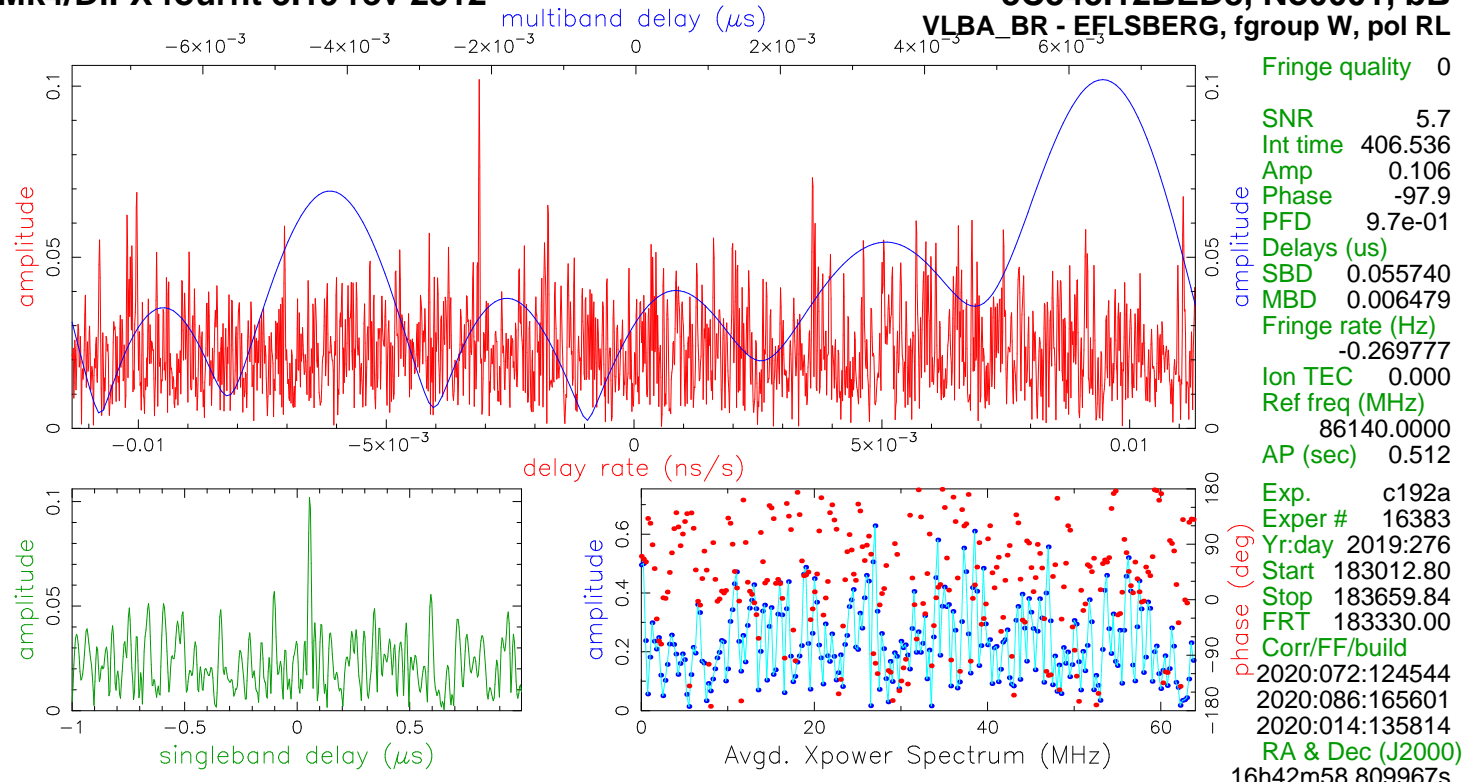
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.35187500000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	2.35187E-03	+/-	5.5E-08
Sband delay (usec)	4.02250000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	4.02250E-04	+/-	4.4E-07
Phase delay (usec)	2.14131248586E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.14131E-06	+/-	1.9E-10
Delay rate (us/s)	-3.47193233596E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.47193E-11	+/-	7.8E-13
Total phase (deg)	66.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	66.4	+/-	0.0

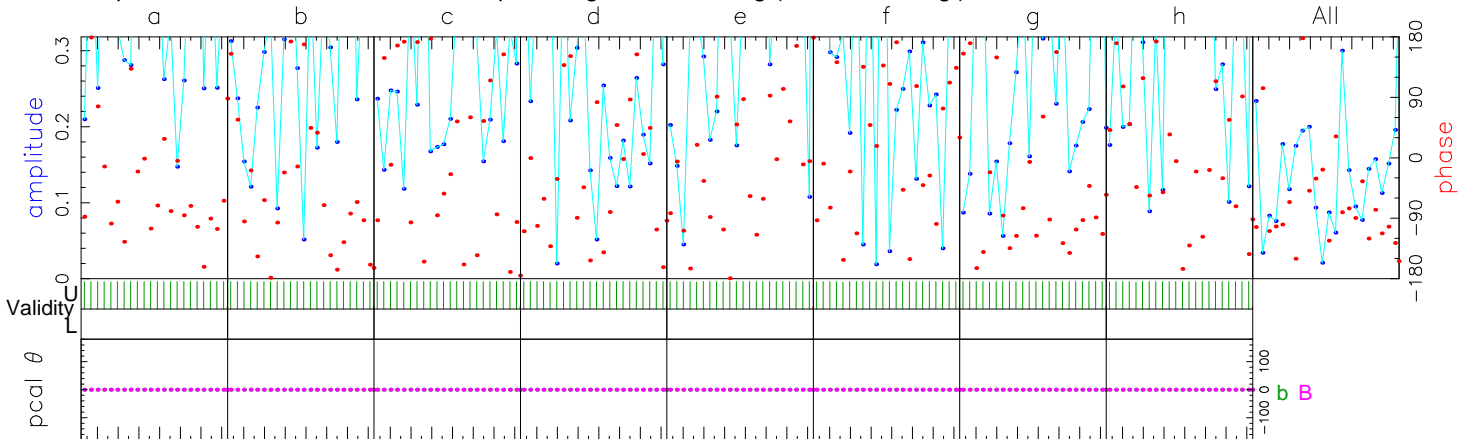
ph/seg (deg)	0.1	RMS	0.0	Theor.	0.0	Amplitude	349.567 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	2.0	Search (2048X32)	347.422	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	14.3	Inc. seg. avg.	349.184	Inc. frq. avg.	358.993	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	28.4	Inc. frq. avg.	358.993	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 269.2 el 56.7 pa 55.8 B: az 269.2 el 56.7 pa 55.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BB..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BB.W.62.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

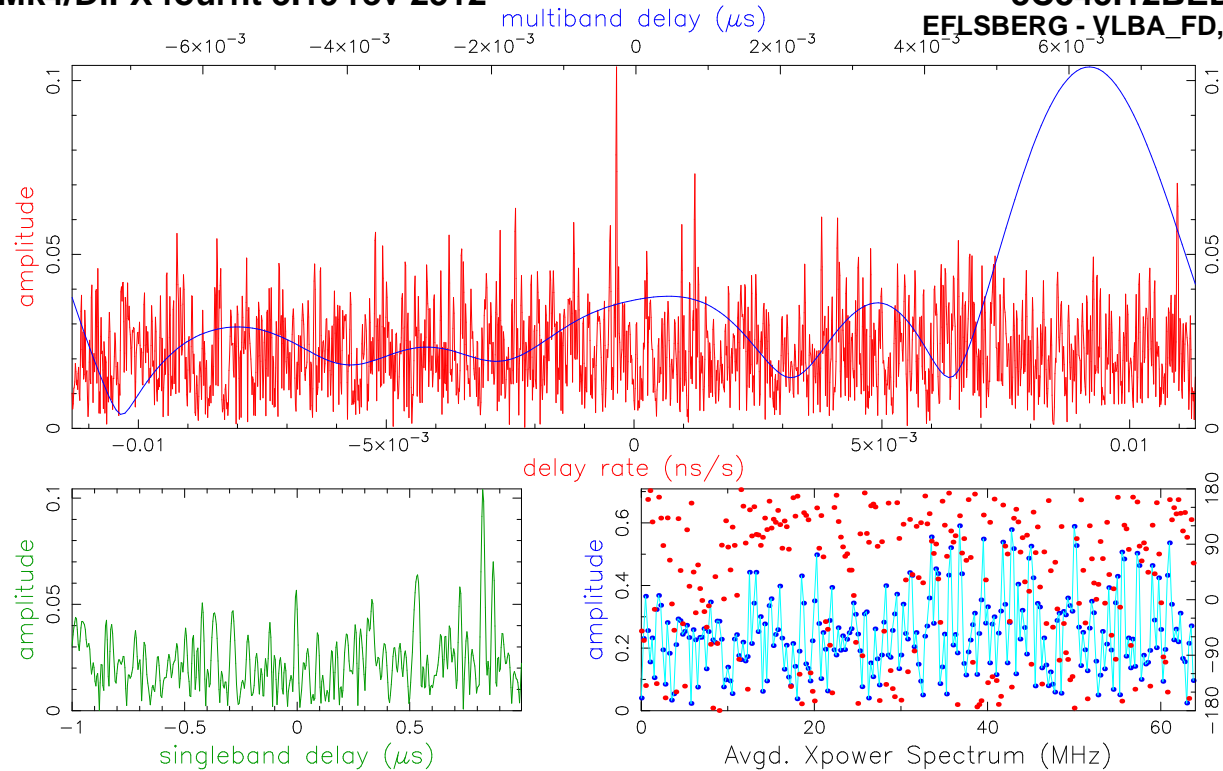


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-74.8	-107.7	-148.4	-105.8	-71.2	-121.6	-115.3	-19.8		Phase -97.9
	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.1		Ampl. 0.1
	271.4	217.6	184.6	90.2	45.1	238.2	271.3	108.3		Sbd box 271.3
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		APs used
b	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
B	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		PC phase
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
b	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	-5.66414638667E+03		Apriori delay (usec)		-5.66419974077E+03		Resid mbdelay (usec)		6.47910E-03	+/- 1.9E-04
Sband delay (usec)	-5.66414400052E+03		Apriori clock (usec)		-1.7451761E+01		Resid sbdelay (usec)		5.57402E-02	+/- 1.5E-03
Phase delay (usec)	-5.66419974393E+03		Apriori clockrate (us/s)		-4.2395080E-08		Resid phdelay (usec)		-3.15548E-06	+/- 6.5E-07
Delay rate (us/s)	1.33643189985E+00		Apriori rate (us/s)		1.33643503169E+00		Resid rate (us/s)		-3.13185E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		2.80562043911E-05		Resid phase (deg)		-97.9	+/- 20.2

	RMS	Theor.	Amplitude	0.106 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	57.9	48.5	Search (2048X32)	0.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	73.0	84.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	42.6	28.6	Inc. seg. avg.	0.102	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	62.5	49.9	Inc. frq. avg.	0.110	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

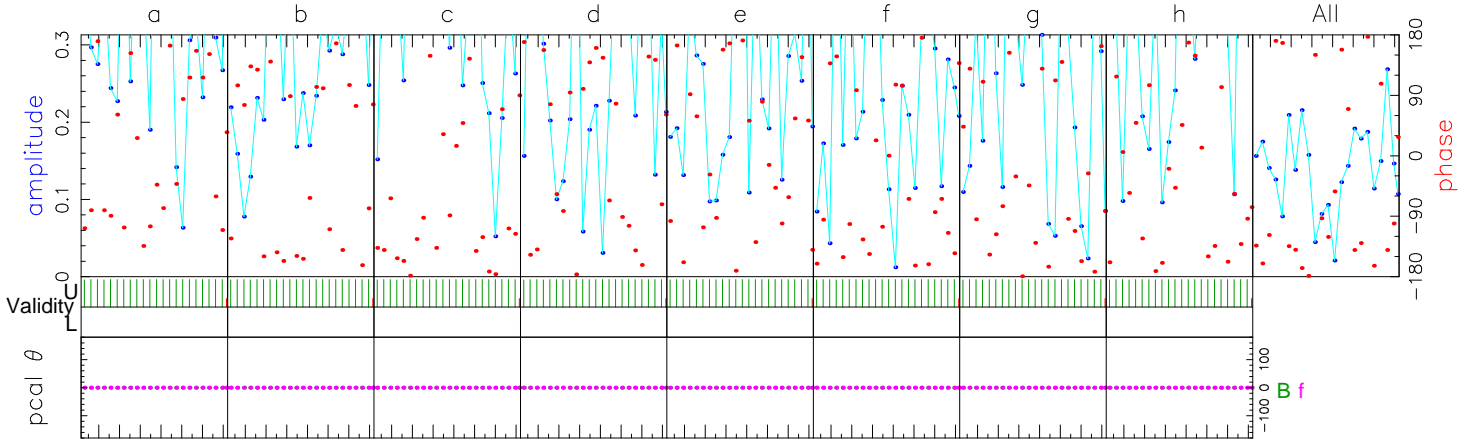
b: az 66.1 el 33.9 pa -52.6 B: az 269.2 el 56.7 pa 55.8 u,v (fr/asec) -9910.522 1769.593 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bB..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bB.W.77.12BED8



Fringe quality 0
SNR 5.8
Int time 410.455
Amp 0.104
Phase -155.3
PFD 8.5e-01
Delays (us)
SBD 0.825026
MBD 0.006297
Fringe rate (Hz)
-0.030278
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165551
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

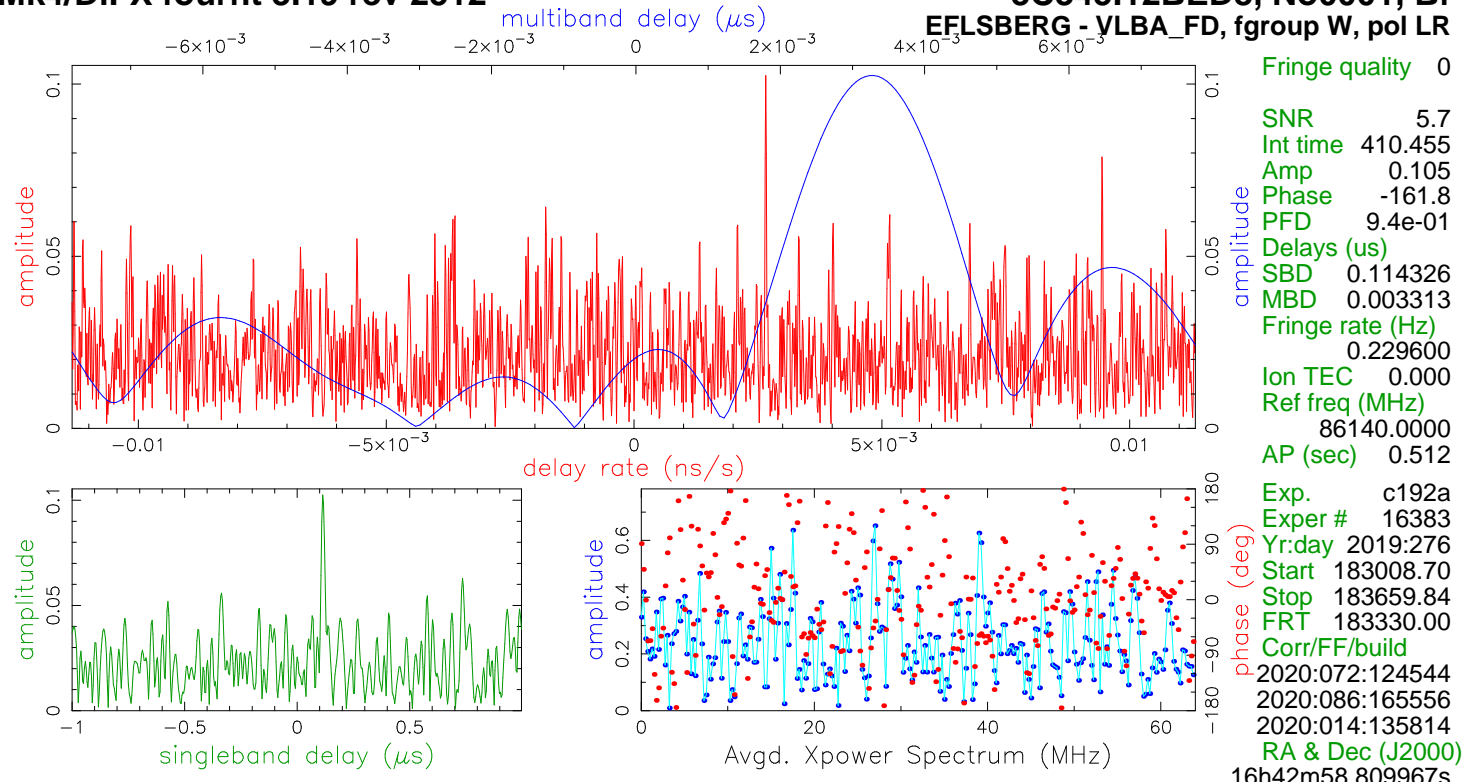


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.4	159.5	-141.7	-164.8	171.7	-140.7	-155.6	-152.6	Phase	-155.3
	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1	Ampl.	0.1
	324.3	304.8	468.1	292.0	238.0	417.2	383.7	478.8	Sbd box	468.2
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.63817124657E+03		Apriori delay (usec)		4.63735244955E+03		Resid mbdelay (usec)		6.29703E-03	+/- 1.9E-04
Sband delay (usec)	4.63817747555E+03		Apriori clock (usec)		1.6384283E-01		Resid sbdelay (usec)		8.25026E-01	+/- 1.5E-03
Phase delay (usec)	4.63735244454E+03		Apriori clockrate (us/s)		-1.0905050E-07		Resid phdelay (usec)		-5.00856E-06	+/- 6.4E-07
Delay rate (us/s)	-1.47663420616E+00		Apriori rate (us/s)		-1.47663385466E+00		Resid rate (us/s)		-3.51500E-07	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-5.63668925130E-06		Resid phase (deg)		-155.3	+/- 19.8

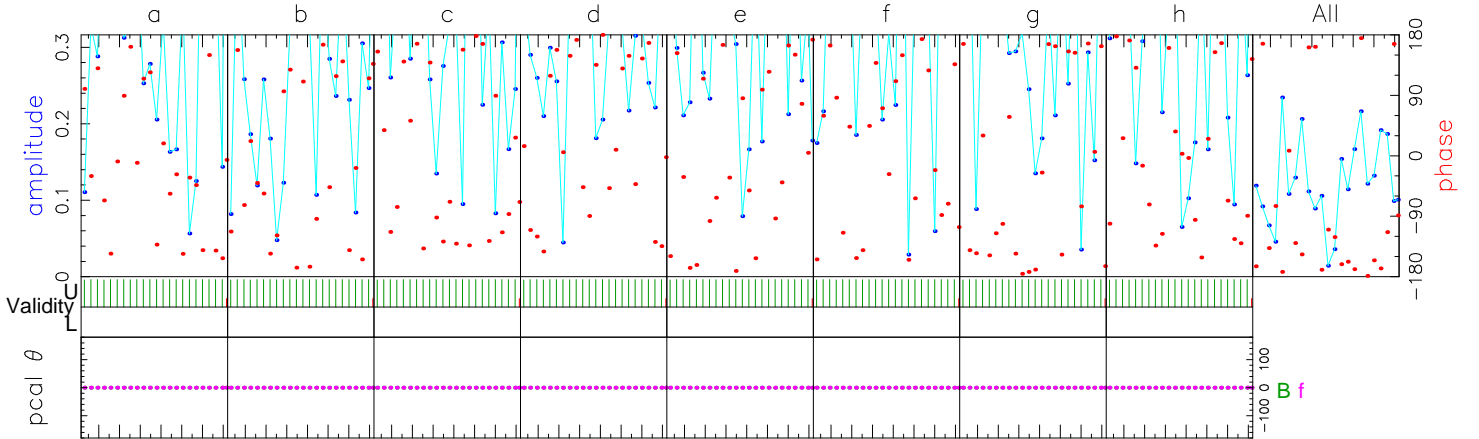
RMS Theor. Amplitude 0.104 +/- 0.018
 ph/seg (deg) 55.5 47.5 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.7 83.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.0 28.0 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.2 48.9 Inc. frq. avg. 0.102 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bf..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bf.W.30.12BED8

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, Bf
EFLSBERG - VLBA_FD, fgroup W, pol LR



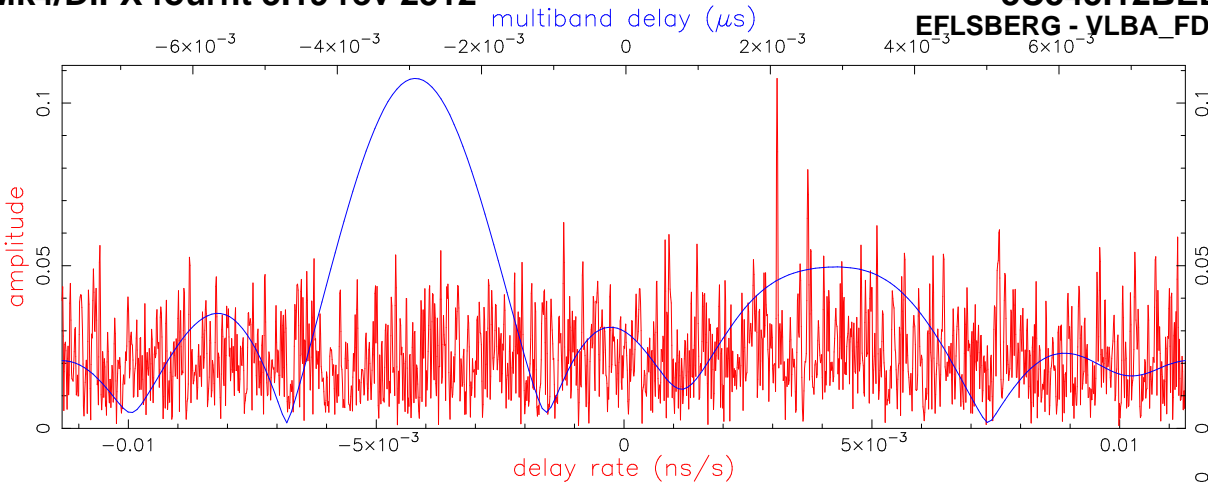
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



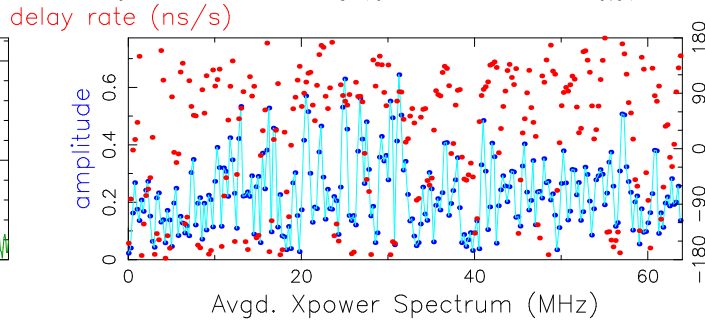
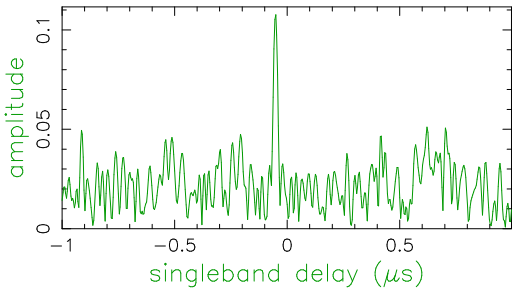
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.8	173.4	-149.0	-152.2	-157.7	168.6	-170.4	-146.2	Phase	-161.8
	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	174.6	351.1	173.6	387.2	413.2	145.0	268.8	431.9	Sbd box	286.3
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.63746513752E+03		Apriori delay (usec)		4.63735244955E+03		Resid mbdelay (usec)		3.31297E-03 +/- 1.9E-04	
Sband delay (usec)	4.63746677530E+03		Apriori clock (usec)		1.6384283E+01		Resid sbdelay (usec)		1.14326E-01 +/- 1.5E-03	
Phase delay (usec)	4.63735244433E+03		Apriori clockrate (us/s)		-1.0905050E-07		Resid phdelay (usec)		-5.21871E-06 +/- 6.5E-07	
Delay rate (us/s)	-1.47663118924E+00		Apriori rate (us/s)		-1.47663385466E+00		Resid rate (us/s)		2.66543E-06 +/- 2.7E-09	
Total phase (deg)			Apriori accel (us/s/s)		-5.63668925130E-06		Resid phase (deg)		-161.8 +/- 20.1	
RMS	48.4	48.1	Amplitude		0.105 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5	
amp/seg (%)	58.8	84.0	Search (2048X32)		0.099		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000	
ph/frq (deg)	25.6	28.4	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled mb window (us) -0.008 0.008	
amp/frq (%)	38.8	49.5	Inc. seg. avg.		0.094		Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
			Inc. frq. avg.		0.098		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00	

B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bf..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bf.W.51.12BED8

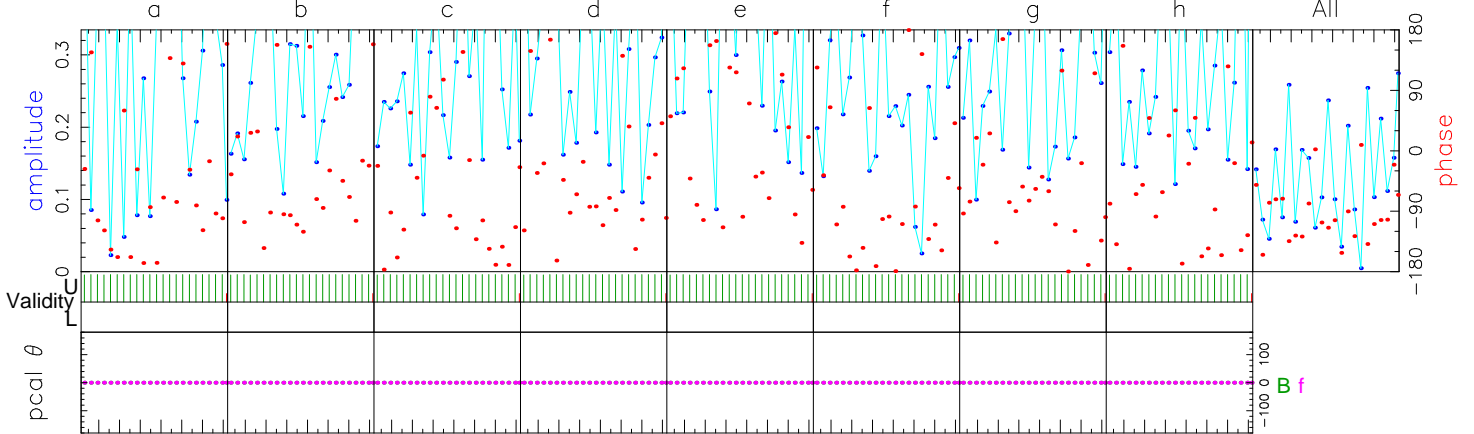


Fringe quality 0
SNR 6.0
Int time 410.455
Amp 0.112
Phase -101.2
PFD 4.1e-01
Delays (us)
SBD -0.052021
MBD -0.002907
Fringe rate (Hz) 0.266035
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165601
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



Avgd. Xpower Spectrum (MHz)

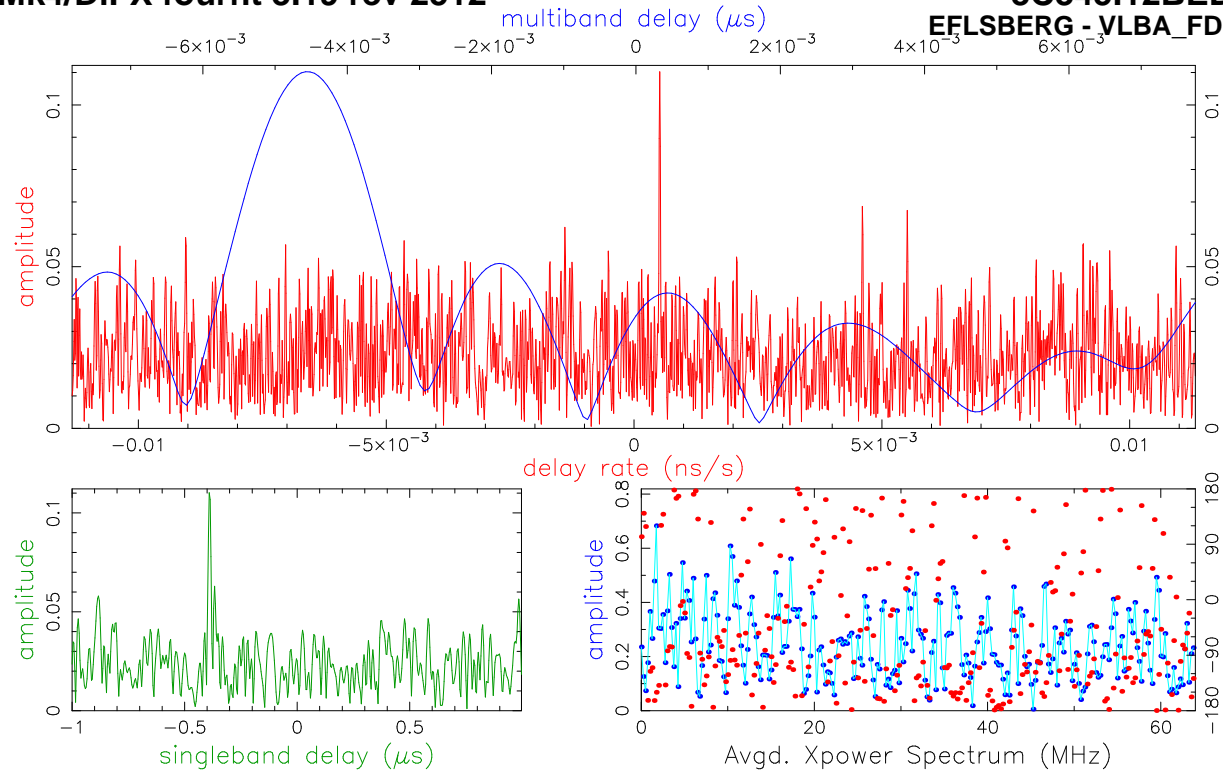
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.0	-75.0	-143.1	-83.7	-56.1	-133.4	-84.4	-112.1	Phase	-101.2
	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	406.8	275.8	396.8	328.0	456.6	195.9	219.3	286.5	Sbd box	243.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.63730266803E+03		Apriori delay (usec)		4.63735244955E+03		Resid mbdelay (usec)		-2.90651E-03	+/- 1.8E-04
Sband delay (usec)	4.63730042855E+03		Apriori clock (usec)		1.6384283E+01		Resid sbdelay (usec)		-5.20210E-02	+/- 1.4E-03
Phase delay (usec)	4.63735244628E+03		Apriori clockrate (us/s)		-1.0905050E-07		Resid phdelay (usec)		-3.26492E-06	+/- 6.2E-07
Delay rate (us/s)	-1.47663076626E+00		Apriori rate (us/s)		-1.47663385466E+00		Resid rate (us/s)		3.08840E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-5.63668925130E-06		Resid phase (deg)		-101.2	+/- 19.1

	RMS	Theor.	Amplitude	0.112 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	45.1	45.8	Search (2048X32)	0.106	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	70.3	80.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	32.3	27.0	Inc. seg. avg.	0.102	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	23.6	47.2	Inc. frq. avg.	0.111	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bf..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bf.W.73.12BED8

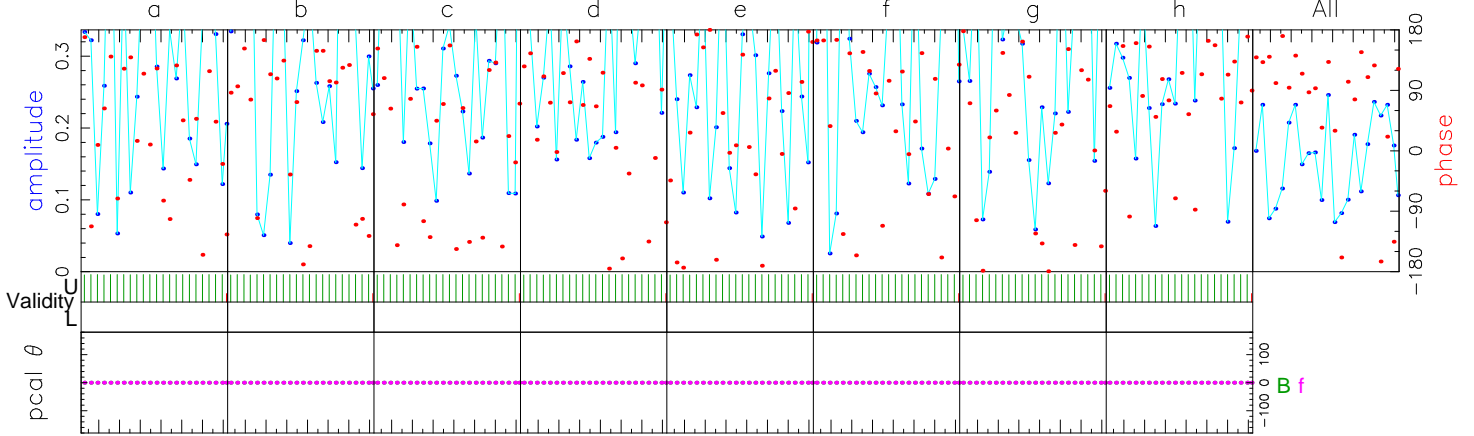


Fringe quality 0

SNR 6.2
Int time 410.455
Amp 0.112
Phase 120.1
PFD 1.3e-01
Delays (us)
SBD -0.389167
MBD -0.004522
Fringe rate (Hz)
0.044738
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

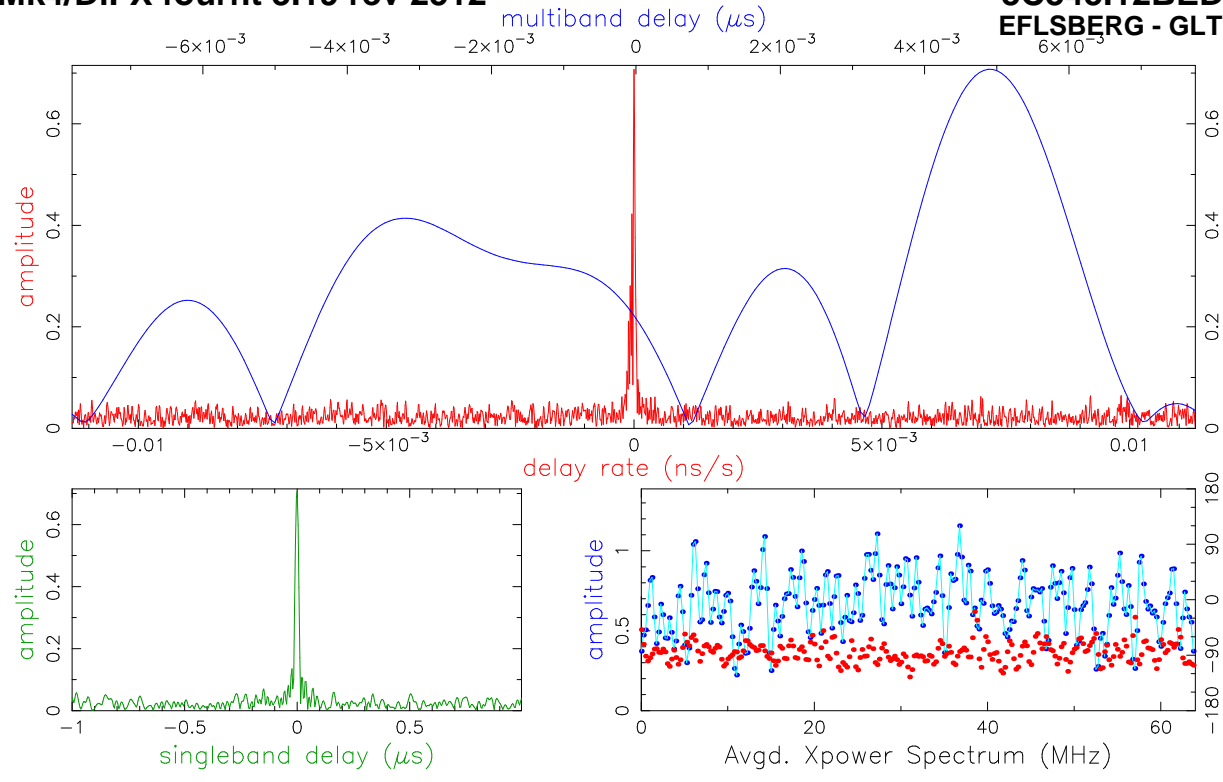
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165547
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	PC freqs	120.1
B	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.1
f	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	157.4
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
f	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Group delay (usec)(sbd)	4.63695730222E+03		Apriori delay (usec)		4.63735244955E+03		Resid mbdelay (usec)		-4.52233E-03	+/- 1.7E-04
Sband delay (usec)	4.63696328230E+03		Apriori clock (usec)		1.6384283E+01		Resid sbdelay (usec)		-3.89167E-01	+/- 1.4E-03
Phase delay (usec)	4.63735245342E+03		Apriori clockrate (us/s)		-1.0905050E-07		Resid phdelay (usec)		3.87231E-06	+/- 5.9E-07
Delay rate (us/s)	-1.47663333529E+00		Apriori rate (us/s)		-1.47663385466E+00		Resid rate (us/s)		5.19367E-07	+/- 2.5E-09
Total phase (deg)	121.6		Apriori accel (us/s/s)		-5.63668925130E-06		Resid phase (deg)		120.1	+/- 18.4

ph/seg (deg) 51.3 44.2 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.2 77.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.1 26.1 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.2 45.5 Inc. frq. avg. 0.102 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bf..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bf.W.8.12BED8

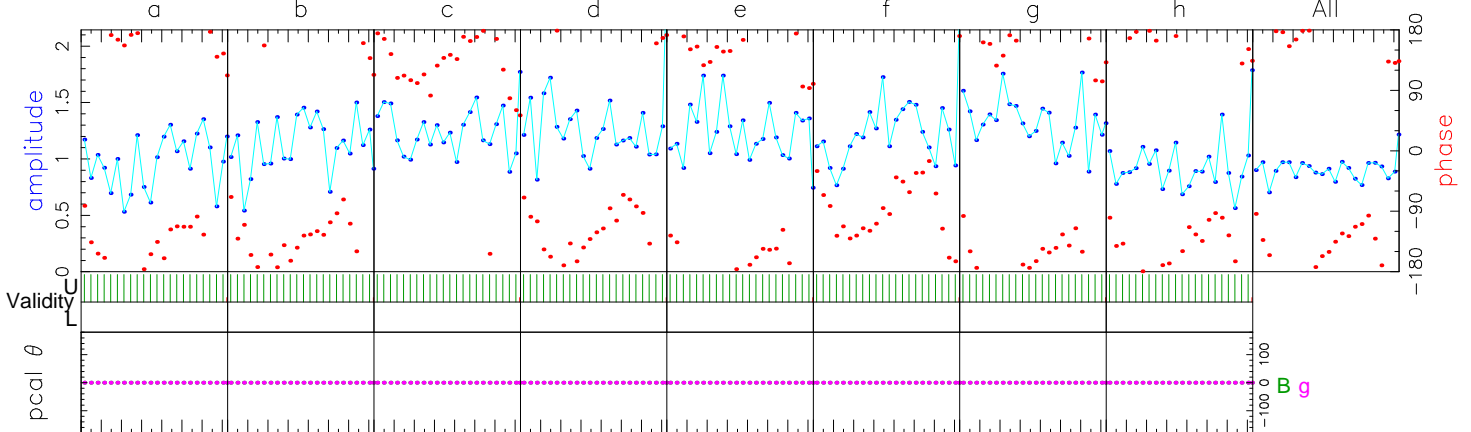


Fringe quality 5

SNR 40.1
Int time 419.660
Amp 0.715
Phase -157.2
PFD 0.0e+00
Delays (us)
SBD -0.001341
MBD 0.004863
Fringe rate (Hz)
0.000087
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165549
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

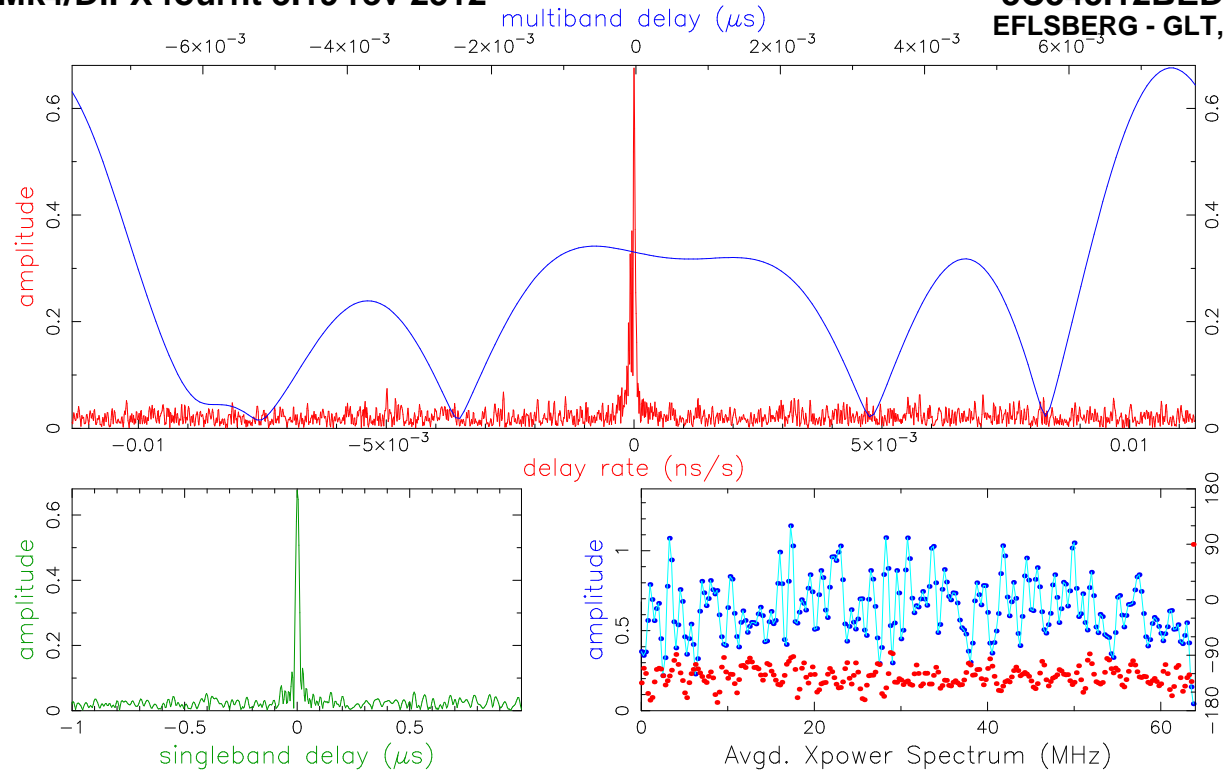
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B: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		
B:g	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.11027535756E+03			1.11027049484E+03				4.86272E-03	+/- 2.7E-05
Sband delay (usec)		1.11026915384E+03			1.5542942E+01				-1.34100E-03	+/- 2.2E-04
Phase delay (usec)		1.11027048977E+03			-2.7499999E-07				-5.06902E-06	+/- 9.2E-08
Delay rate (us/s)		-6.86391248998E-01			-6.86391250011E-01				1.01253E-09	+/- 3.8E-10
Total phase (deg)			-4.0		-2.03542527340E-05				-157.2	+/- 2.9
	RMS	Theor.	Amplitude	0.715 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	38.8	6.9	Search (2048X32)	0.706	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	27.7	12.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	44.4	4.0	Inc. seg. avg.	0.890	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	29.9	7.1	Inc. frq. avg.	0.900	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

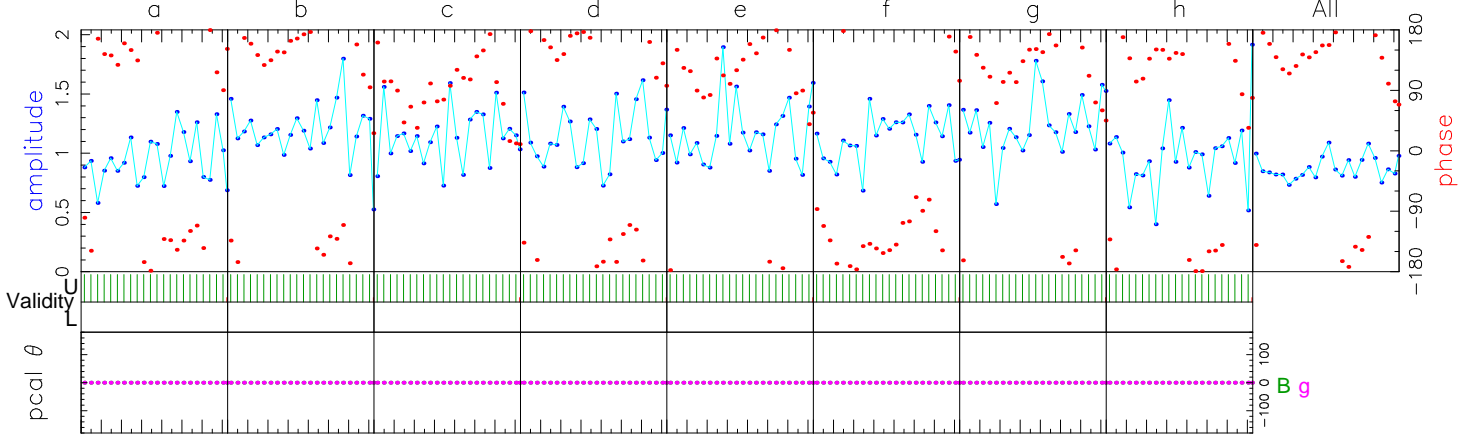
B: az 269.2 el 56.7 pa 55.8 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) 5076.389 -2763.871 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bg..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bg.W.24.12BED8



Fringe quality 5
 SNR 38.1
 Int time 419.704
 Amp 0.681
 Phase 161.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.001093
 MBD 0.007454
 Fringe rate (Hz) 0.000073
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183000.00
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165553
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

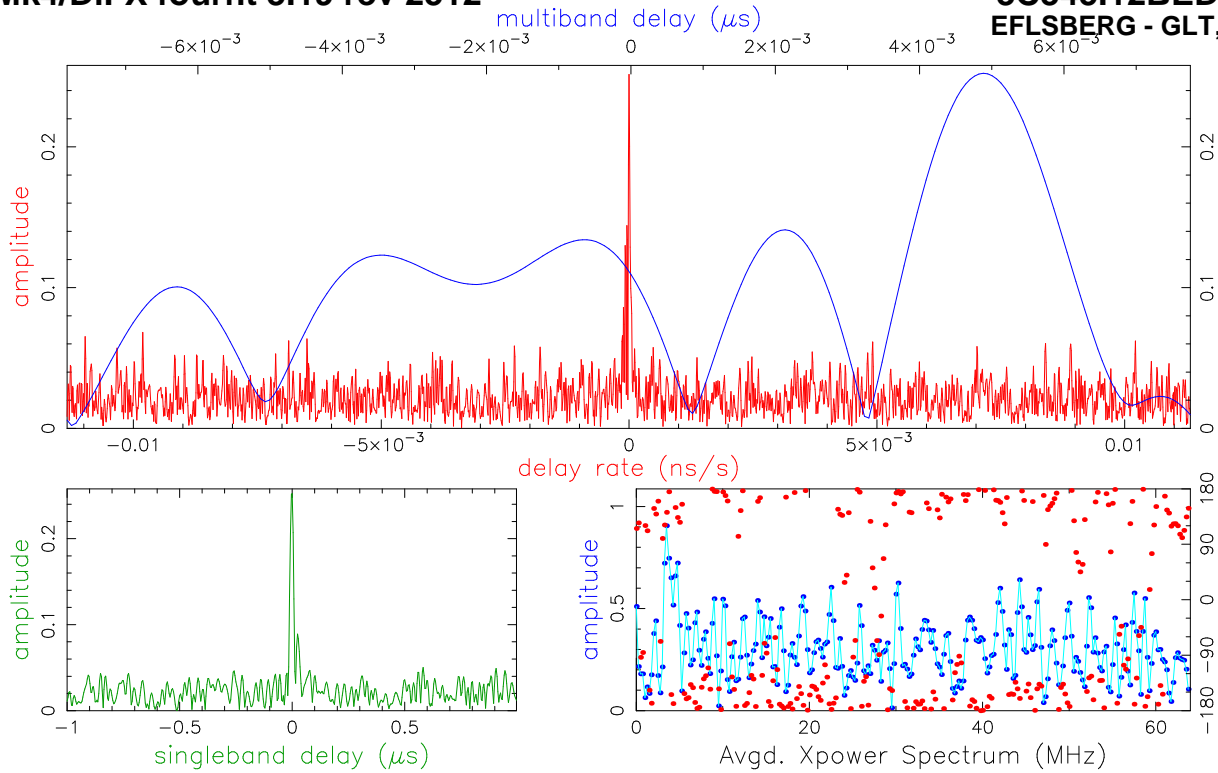


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	1000	1000	1000	1000	1000	1000	1000	1000		
B:g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	1.11027794878E+03	Apriori delay (usec)	1.11027049484E+03	Resid mbdelay (usec)	7.45394E-03	+/-	2.8E-05
Sband delay (usec)	1.11027158834E+03	Apriori clock (usec)	1.5542942E+01	Resid sbdelay (usec)	1.09350E-03	+/-	2.3E-04
Phase delay (usec)	1.11027050003E+03	Apriori clockrate (us/s)	-2.7499999E-07	Resid phdelay (usec)	5.19120E-06	+/-	9.7E-08
Delay rate (us/s)	-6.86391249167E-01	Apriori rate (us/s)	-6.86391250011E-01	Resid rate (us/s)	8.43184E-10	+/-	4.0E-10
Total phase (deg)	314.1	Apriori accel (us/s/s)	-2.03542527340E-05	Resid phase (deg)	161.0	+/-	3.0

ph/seg (deg)	40.5	RMS	7.2	Theor.	40.5	Amplitude	0.681 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	32.0	Search (2048X32)	0.673	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	43.9	Inc. seg. avg.	0.869	Inc. frq. avg.	0.850	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	28.8	Inc. frq. avg.	0.850	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 269.2 el 56.7 pa 55.8 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) 5076.389 -2763.871 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bg..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bg.W.40.12BED8

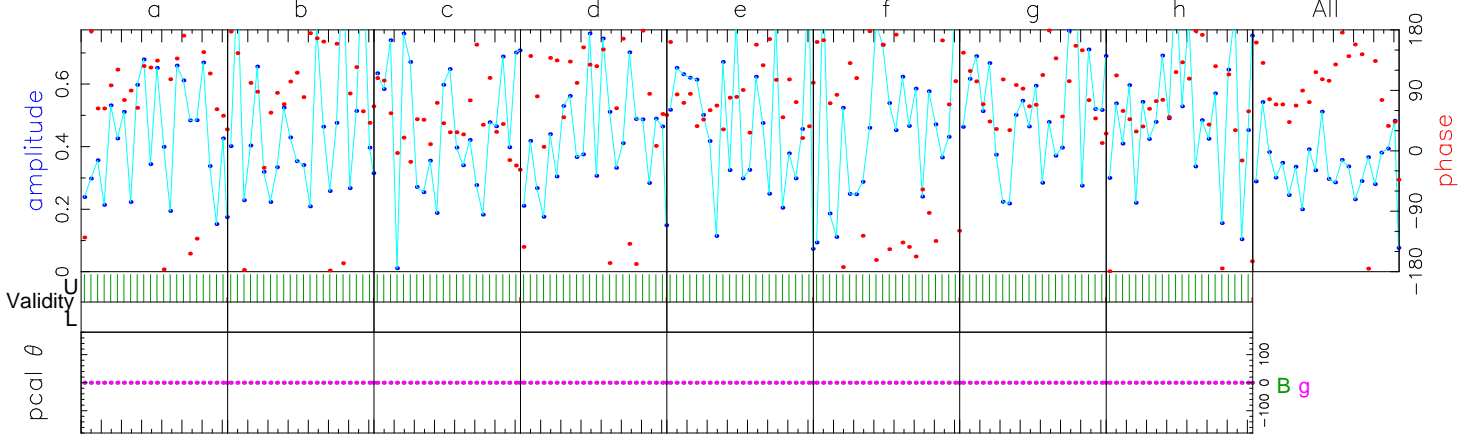


Fringe quality 8

SNR 14.4
Int time 419.704
Amp 0.258
Phase 103.2
PFD 1.5e-38
Delays (us)
SBD -0.001897
MBD 0.004966
Fringe rate (Hz) 0.000052
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165557
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

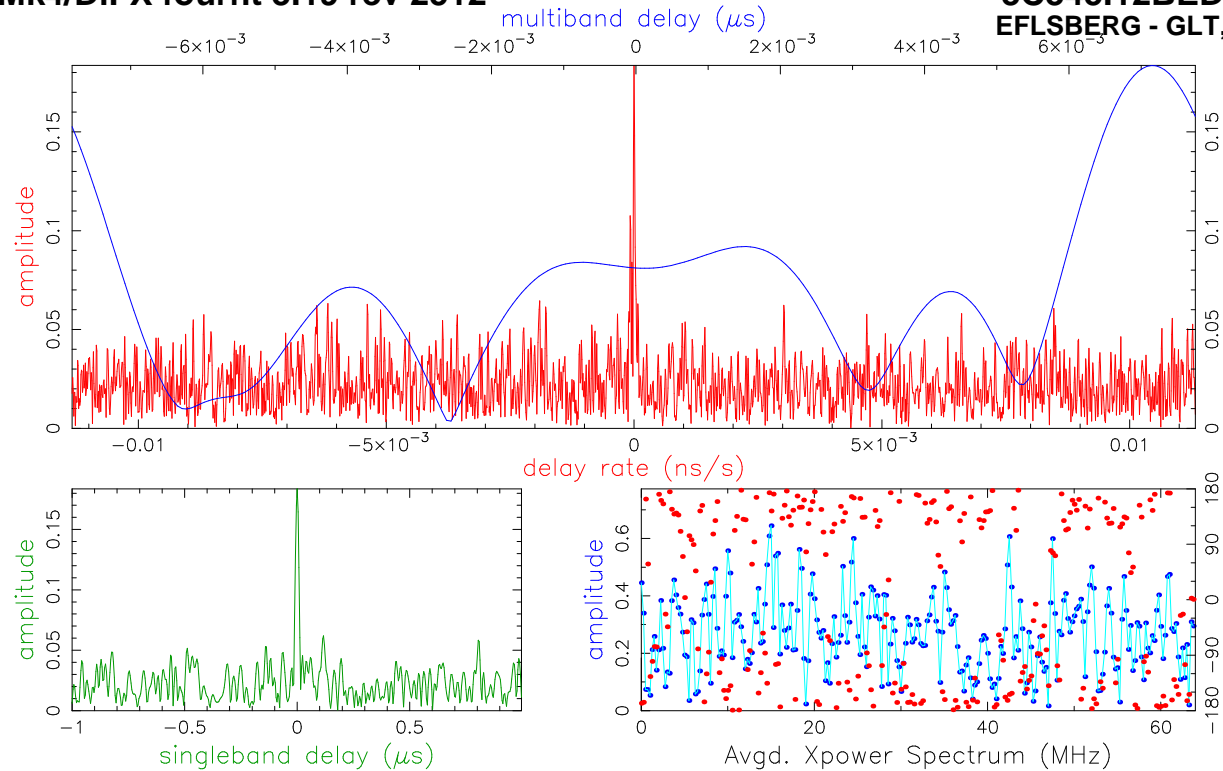


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	126.7	121.7	39.6	135.4	76.2	-177.3	91.9	88.3	Phase	103.2
B	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	Ampl.	0.3
B:g	255.1	256.0	257.0	257.6	257.3	257.0	256.7	255.5	Sbd box	256.5
B:g	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B:g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:g	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	Mani PC	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
B:g	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
B:g	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 1.11027546121E+03 Apriori delay (usec) 1.11027049484E+03 Resid mbdelay (usec) 4.96637E-03 +/- 7.5E-05
 Sband delay (usec) 1.11026859834E+03 Apriori clock (usec) 1.5542942E+01 Resid sbdelay (usec) -1.89650E-03 +/- 6.0E-04
 Phase delay (usec) 1.11027049817E+03 Apriori clockrate (us/s) -2.7499999E-07 Resid phdelay (usec) 3.32769E-06 +/- 2.6E-07
 Delay rate (us/s) -6.86391249401E-01 Apriori rate (us/s) -6.86391250011E-01 Resid rate (us/s) 6.09360E-10 +/- 1.1E-09
 Total phase (deg) 256.3 Apriori accel (us/s/s) -2.03542527340E-05 Resid phase (deg) 103.2 +/- 7.9

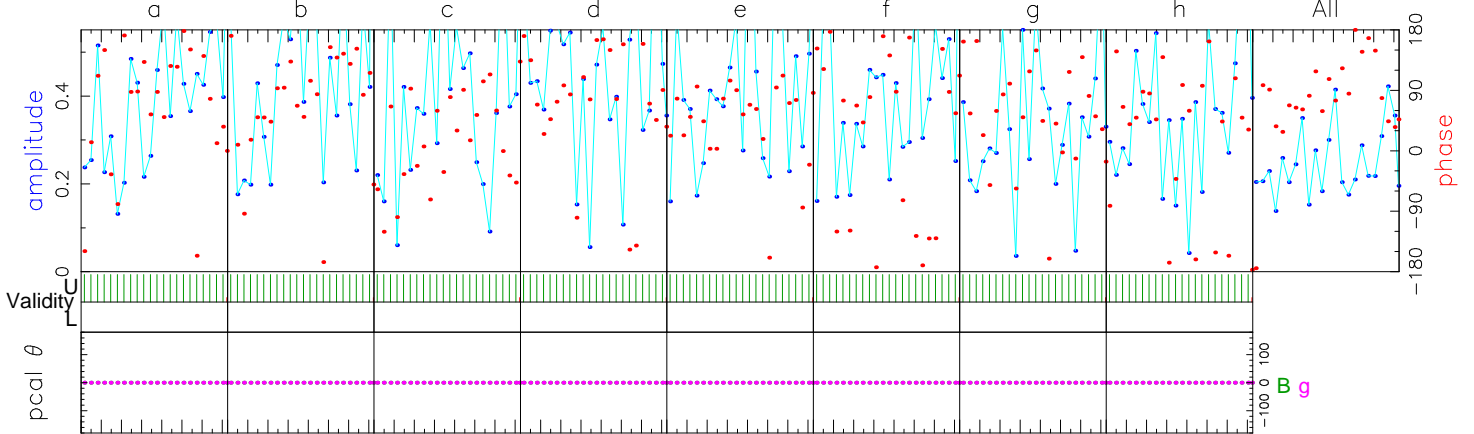
RMS Theor. Amplitude 0.258 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 45.1 19.0 Search (2048X32) 0.252 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 47.0 33.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 47.2 11.2 Inc. seg. avg. 0.325 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 30.1 19.6 Inc. frq. avg. 0.317 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) 5076.389 -2763.871 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bg..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bg.W.57.12BED8



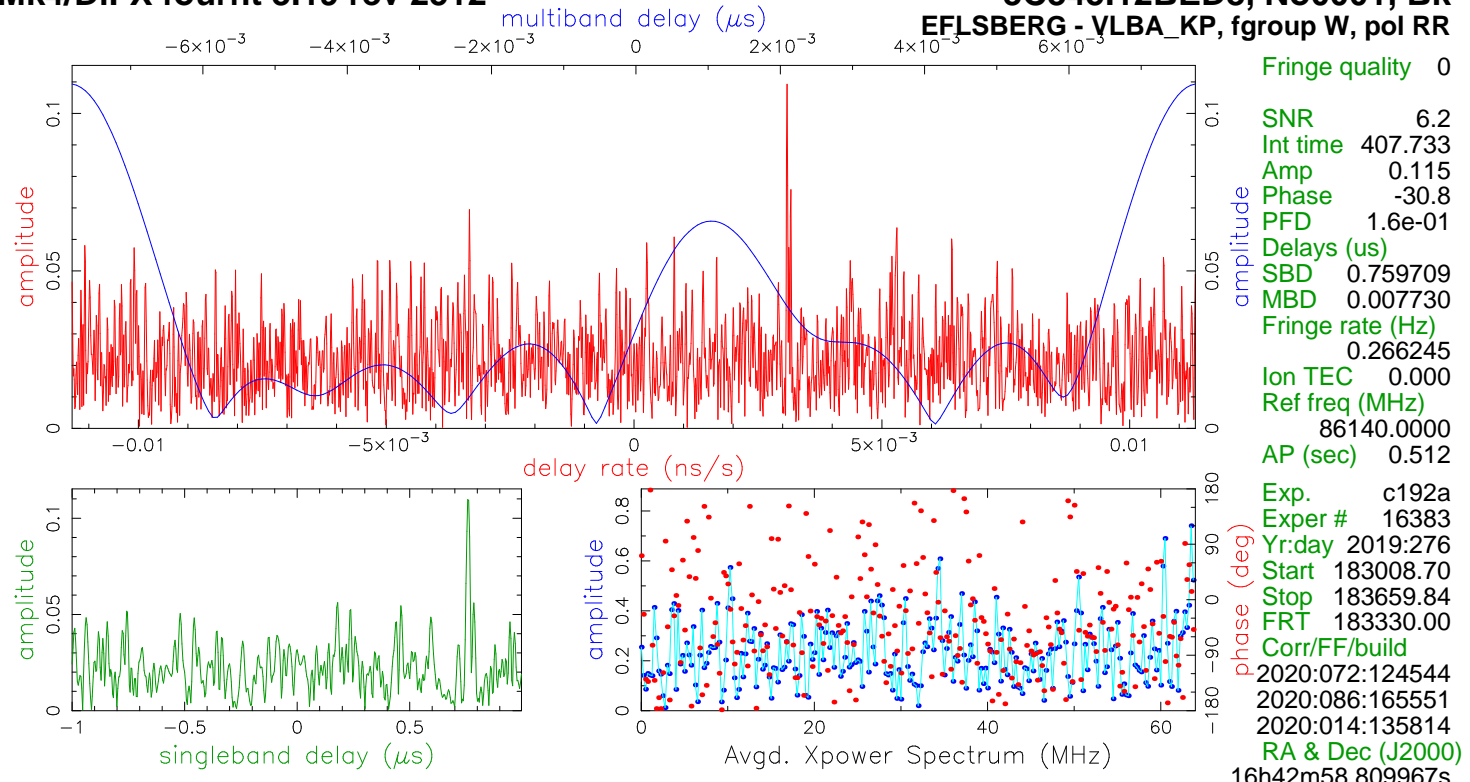
Fringe quality 9
 SNR 10.3
 Int time 419.660
 Amp 0.184
 Phase 87.2
 PFD 3.5e-16
 Delays (us)
 SBD -0.000304
 MBD 0.007143
 Fringe rate (Hz)
 -0.000100
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183000.00
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165602
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

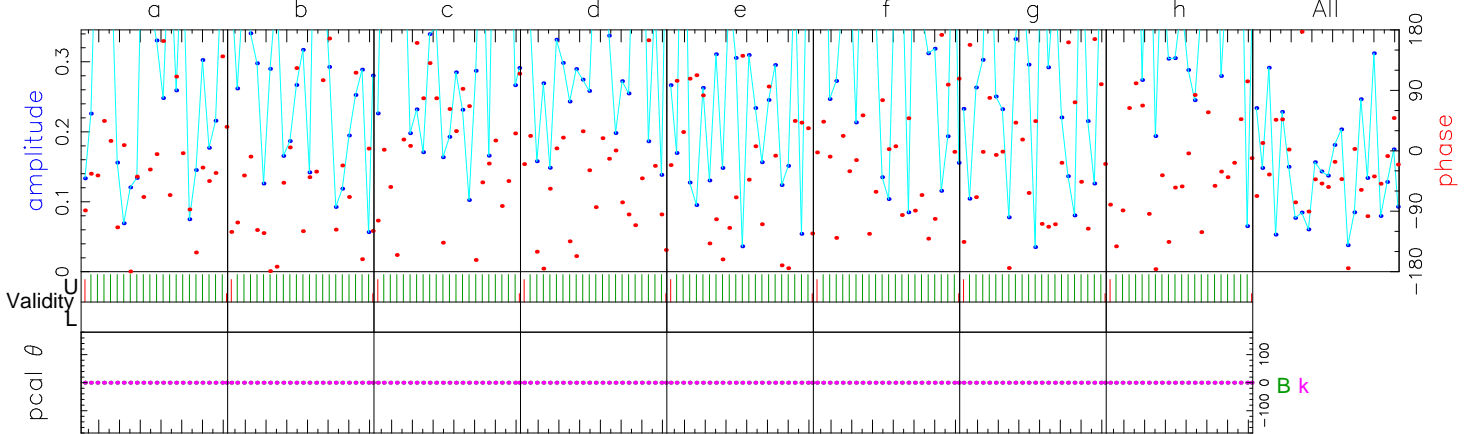


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	86.2	87.2
B	1000	1000	1000	1000	1000	1000	1000	1000	0.2	0.2
g	0	0	0	0	0	0	0	0	0.2	0.2
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	160.4	255.0
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	255.0	256.9
B:g	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC freqs	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
									Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	1.11027763765E+03		Apriori delay (usec)		1.11027049484E+03		Resid mbdelay (usec)		7.14281E-03	+/- 1.1E-04
Sband delay (usec)	1.11027019084E+03		Apriori clock (usec)		1.5542942E+01		Resid sbdelay (usec)		-3.04000E-04	+/- 8.4E-04
Phase delay (usec)	1.11027049765E+03		Apriori clockrate (us/s)		-2.7499999E-07		Resid phdelay (usec)		2.81292E-06	+/- 3.6E-07
Delay rate (us/s)	-6.86391251172E-01		Apriori rate (us/s)		-6.86391250011E-01		Resid rate (us/s)		-1.16133E-09	+/- 1.5E-09
Total phase (deg)	240.4		Apriori accel (us/s/s)		-2.03542527340E-05		Resid phase (deg)		87.2	+/- 11.1

ph/seg (deg) 46.7 26.7 Amplitude 0.184 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.2 46.6 Interp. 0.181 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.1 15.8 Inc. seg. avg. 0.228 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.3 27.5 Inc. frq. avg. 0.218 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) 5076.389 -2763.871 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bg..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bg.W.80.12BED8 simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

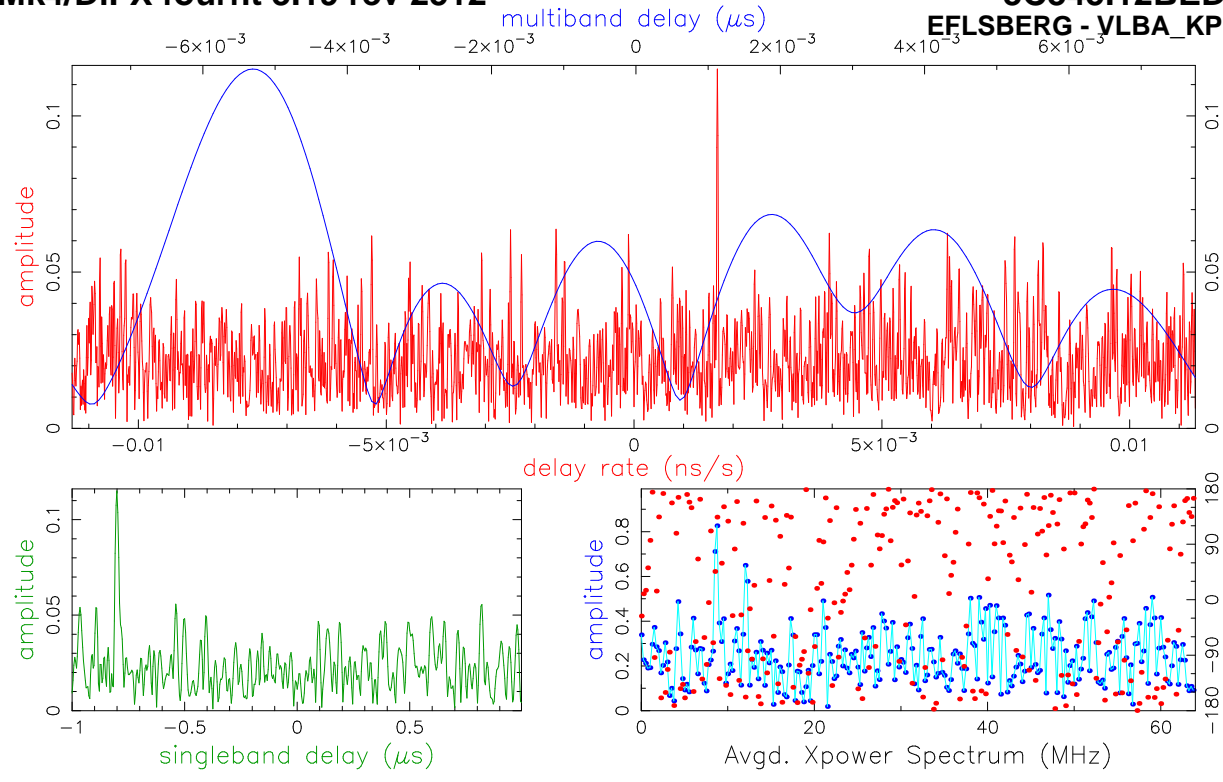


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-23.7	-105.0	-8.2	-47.7	4.9	-26.8	-35.5	-28.5	Phase	-30.8
	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1
	350.7	297.6	41.2	452.2	375.7	451.3	318.0	173.3	Sbd box	451.5
U/L	801/0	801/0	801/0	801/0	801/0	801/0	802/0	802/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	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	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.17952769380E+03		Apriori delay (usec)		6.17876996376E+03		Resid mbdelay (usec)		7.73003E-03	+/- 1.8E-04
Sband delay (usec)	6.17952967326E+03		Apriori clock (usec)		1.7240984E+01		Resid sbdelay (usec)		7.59709E-01	+/- 1.4E-03
Phase delay (usec)	6.17876996277E+03		Apriori clockrate (us/s)		-5.4210100E-09		Resid phdelay (usec)		-9.93285E-07	+/- 6.0E-07
Delay rate (us/s)	-1.51428628786E+00		Apriori rate (us/s)		-1.51428937870E+00		Resid rate (us/s)		3.09084E-06	+/- 2.5E-09
Total phase (deg)	213.5		Apriori accel (us/s/s)		-1.52513005341E-05		Resid phase (deg)		-30.8	+/- 18.6

	RMS	Theor.	Amplitude	0.115 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	60.2	44.5	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	75.2	77.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	35.7	26.3	Inc. seg. avg.	0.119	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	34.2	45.8	Inc. frq. avg.	0.112	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

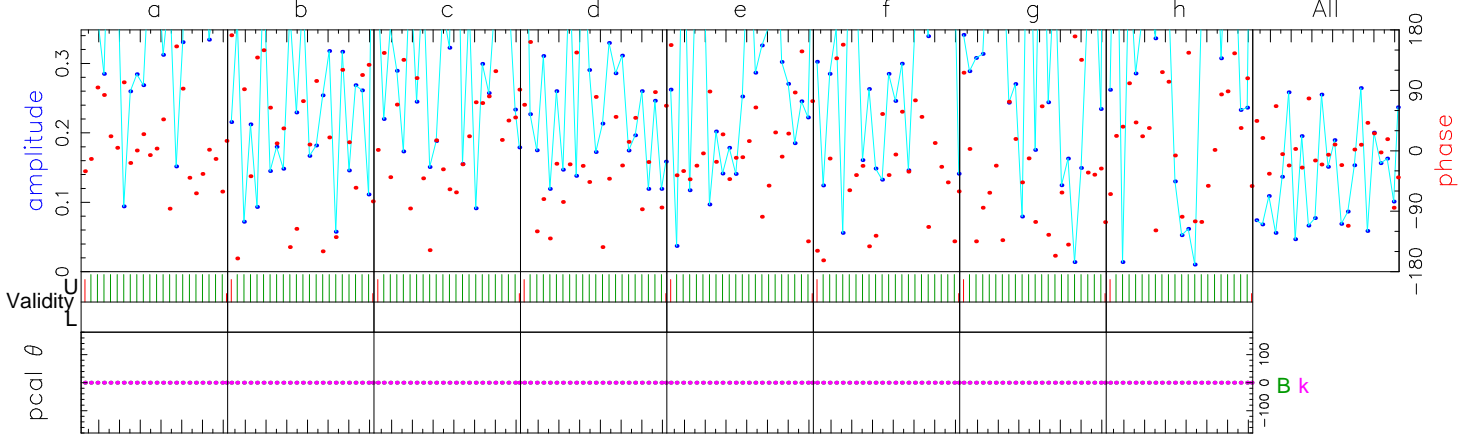
B: az 269.2 el 56.7 pa 55.8 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 11261.152 517.591 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bk..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bk.W.28.12BED8



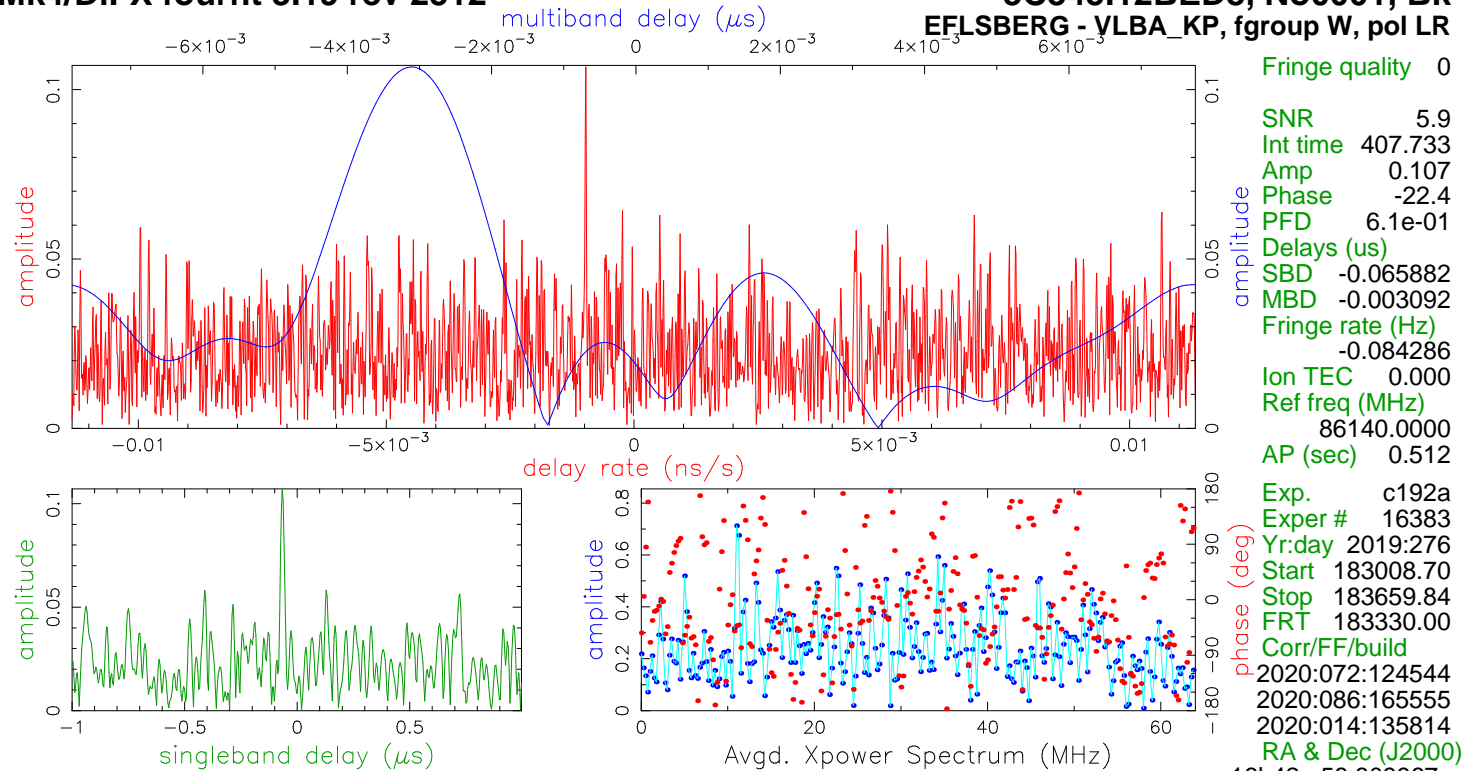
Fringe quality 0
 SNR 6.4
 Int time 407.733
 Amp 0.116
 Phase -4.5
 PFD 5.5e-02
 Delays (us)
 SBD -0.801248
 MBD -0.005331
 Fringe rate (Hz)
 0.144806
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165546
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

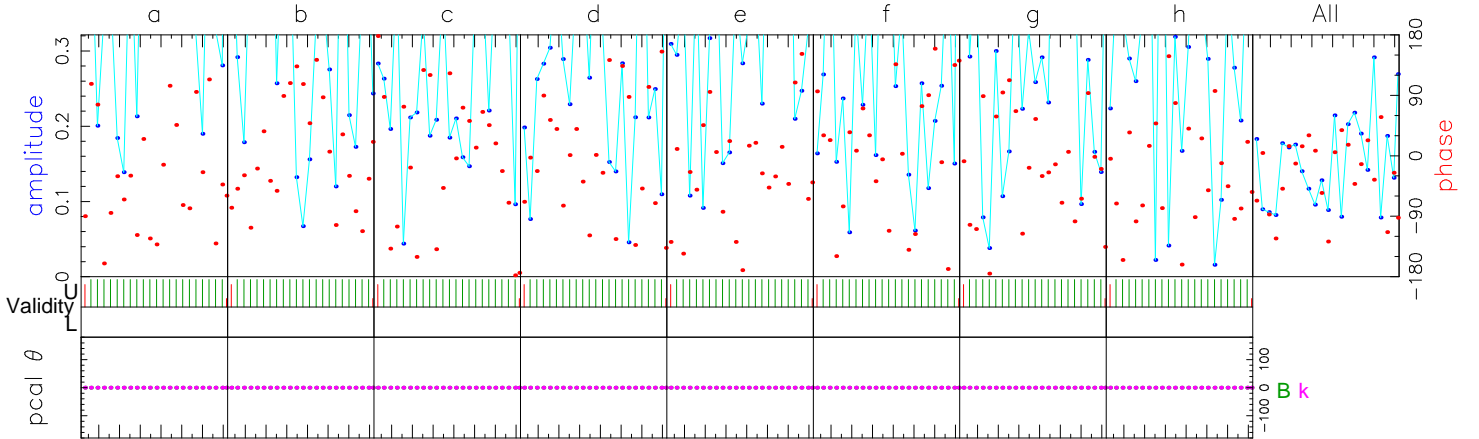


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.0	127.9	7.7	-16.2	-2.9	-25.9	-50.0	51.4	Phase	-4.5
	0.3	0.0	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	52.9	374.3	186.6	114.2	428.9	93.7	184.1	121.0	Sbd box	51.9
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	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	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.17796775730E+03		Apriori delay (usec)		6.17876996376E+03		Resid mbdelay (usec)		-5.33147E-03	+/- 1.7E-04
Sband delay (usec)	6.17796871601E+03		Apriori clock (usec)		1.7240984E+01		Resid sbdelay (usec)		-8.01248E-01	+/- 1.4E-03
Phase delay (usec)	6.17876996362E+03		Apriori clockrate (us/s)		-5.4210100E-09		Resid phdelay (usec)		-1.46182E-07	+/- 5.8E-07
Delay rate (us/s)	-1.51428769765E+00		Apriori rate (us/s)		-1.51428937870E+00		Resid rate (us/s)		1.68106E-06	+/- 2.5E-09
Total phase (deg)	239.8		Apriori accel (us/s/s)		-1.52513005341E-05		Resid phase (deg)		-4.5	+/- 18.0

ph/seg (deg) 41.9 43.2 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.7 75.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 62.6 25.5 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 59.4 44.5 Inc. frq. avg. 0.125 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 11261.152 517.591 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bk..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bk.W.4.12BED8



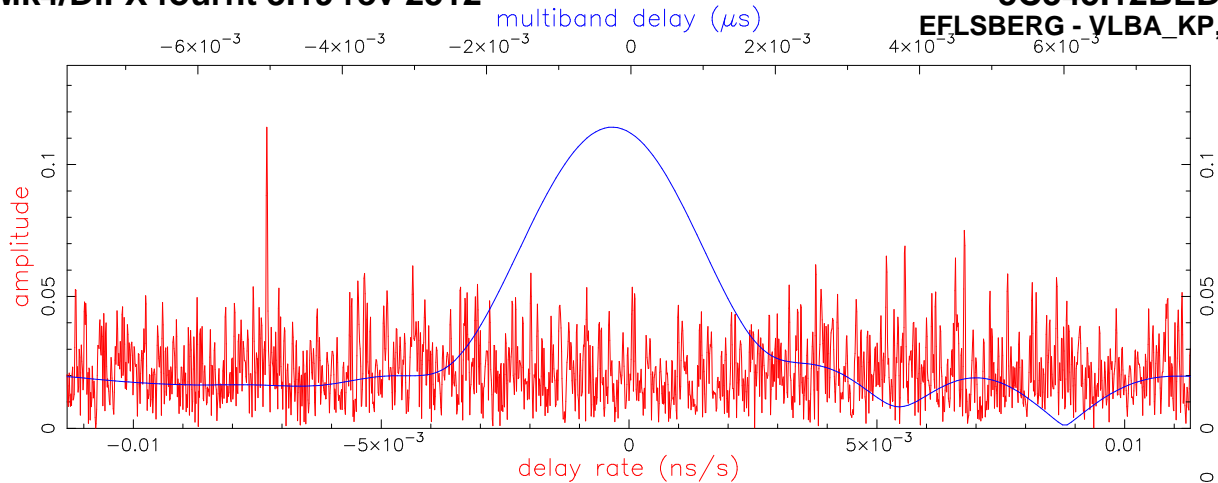
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-55.7	-9.2	12.3	-16.5	-30.5	24.6	-17.5	-42.2	Phase	-22.4
	0.1	0.1	0.0	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
	12.4	273.8	287.1	153.5	337.4	94.1	308.0	32.9	Sbd box	240.1
U/L	801/0	801/0	801/0	801/0	801/0	801/0	802/0	802/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	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	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.17870437205E+03		Apriori delay (usec)		6.17876996376E+03		Resid mbdelay (usec)		-3.09171E-03	+/- 1.8E-04
Sband delay (usec)	6.17870408126E+03		Apriori clock (usec)		1.7240984E+01		Resid sbdelay (usec)		-6.58825E-02	+/- 1.5E-03
Phase delay (usec)	6.17876996304E+03		Apriori clockrate (us/s)		-5.4210100E-09		Resid phdelay (usec)		-7.21310E-07	+/- 6.3E-07
Delay rate (us/s)	-1.51429035718E+00		Apriori rate (us/s)		-1.51428937870E+00		Resid rate (us/s)		-9.78481E-07	+/- 2.6E-09
Total phase (deg)	221.9		Apriori accel (us/s/s)		-1.52513005341E-05		Resid phase (deg)		-22.4	+/- 19.4

	RMS	Theor.	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.5	46.5	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	67.3	81.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	29.4	27.5	Inc. seg. avg.	0.113	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	38.4	47.9	Inc. frq. avg.	0.103	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

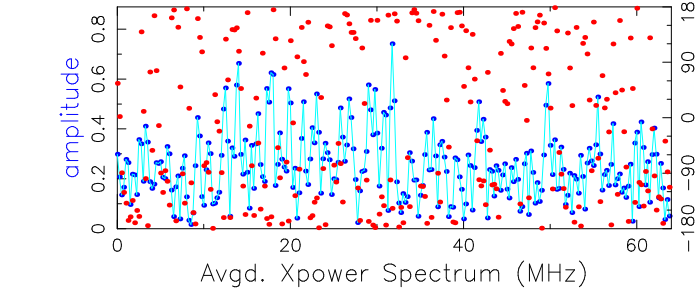
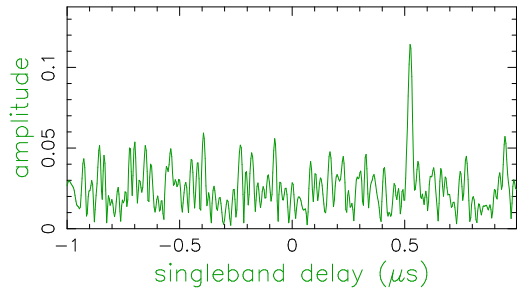
B: az 269.2 el 56.7 pa 55.8 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 11261.152 517.591 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bk..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bk.W.48.12BED8



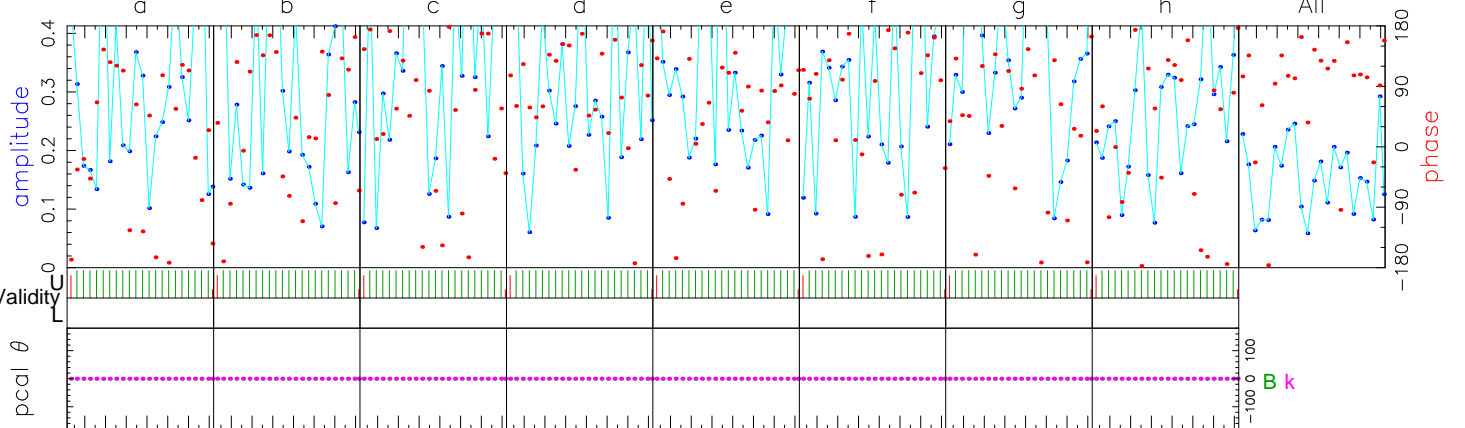
Fringe quality 0

SNR 6.4
Int time 407.733
Amp 0.138
Phase 116.7
PFD 5.3e-02
Delays (us)
SBD 0.524857
MBD -0.000240
Fringe rate (Hz)
-0.630333
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165559
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

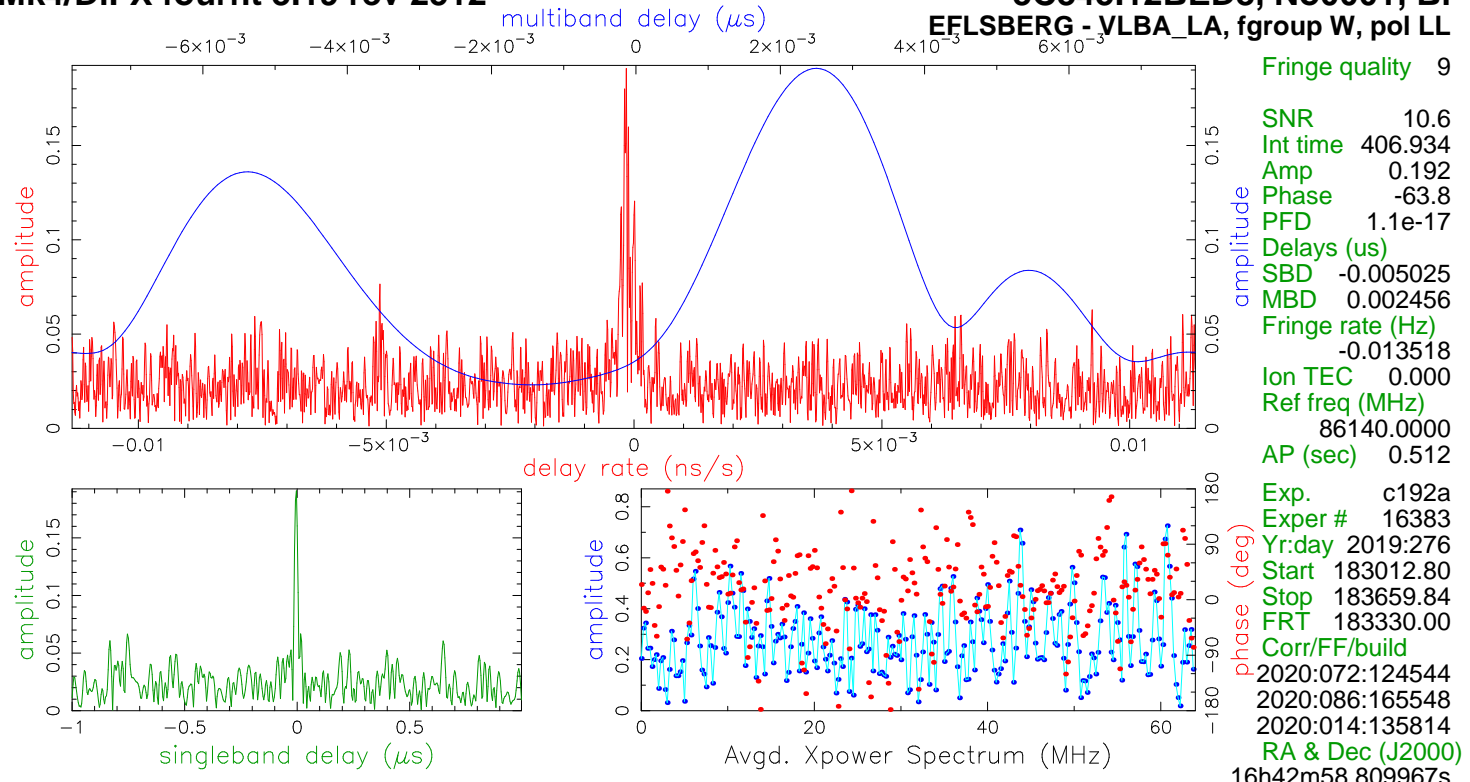


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	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		
B:k	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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
Group delay (usec)(sbd)	6.17930097329E+03		Apriori delay (usec)		6.17876996376E+03		Resid mbdelay (usec)		-2.40475E-04	+/- 1.7E-04
Sband delay (usec)	6.17929482101E+03		Apriori clock (usec)		1.7240984E-01		Resid sbdelay (usec)		5.24857E-01	+/- 1.4E-03
Phase delay (usec)	6.17876996753E+03		Apriori clockrate (us/s)		-5.4210100E-09		Resid phdelay (usec)		3.76417E-06	+/- 5.8E-07
Delay rate (us/s)	-1.51429669624E+00		Apriori rate (us/s)		-1.51428937870E+00		Resid rate (us/s)		-7.31754E-06	+/- 2.5E-09
Total phase (deg)	1.0		Apriori accel (us/s/s)		-1.52513005341E-05		Resid phase (deg)		116.7	+/- 18.0

ph/seg (deg) 61.5 43.2 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.2 75.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.8 25.5 Inc. seg. avg. 0.144 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.1 44.5 Inc. frq. avg. 0.130 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 11261.152 517.591 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bk..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bk.W.67.12BED8

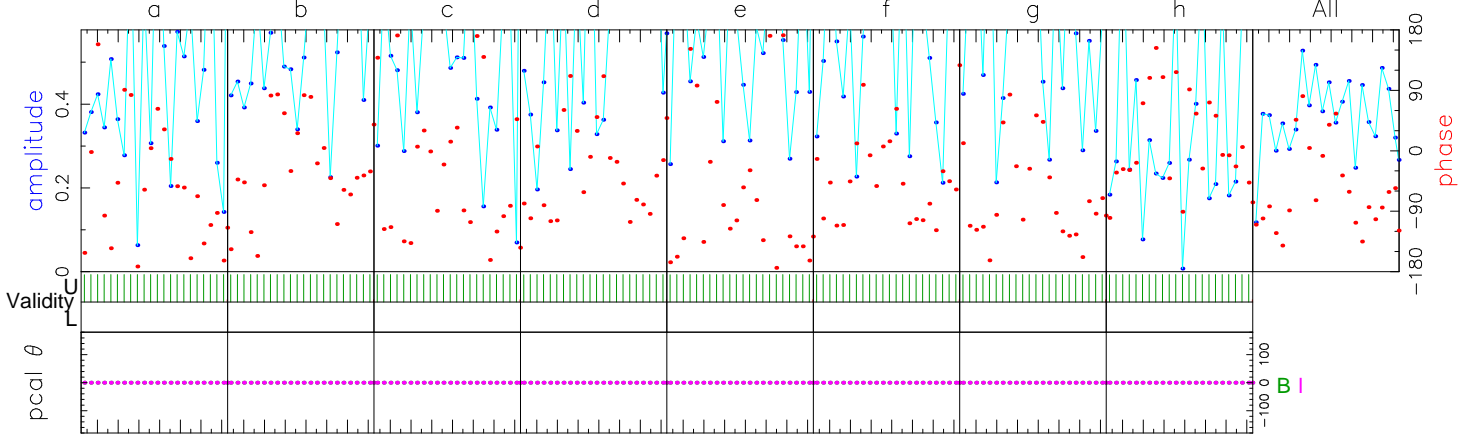


Fringe quality 9

SNR 10.6
Int time 406.934
Amp 0.192
Phase -63.8
PFD 1.1e-17
Delays (us)
SBD -0.005025
MBD 0.002456
Fringe rate (Hz)
-0.013518
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

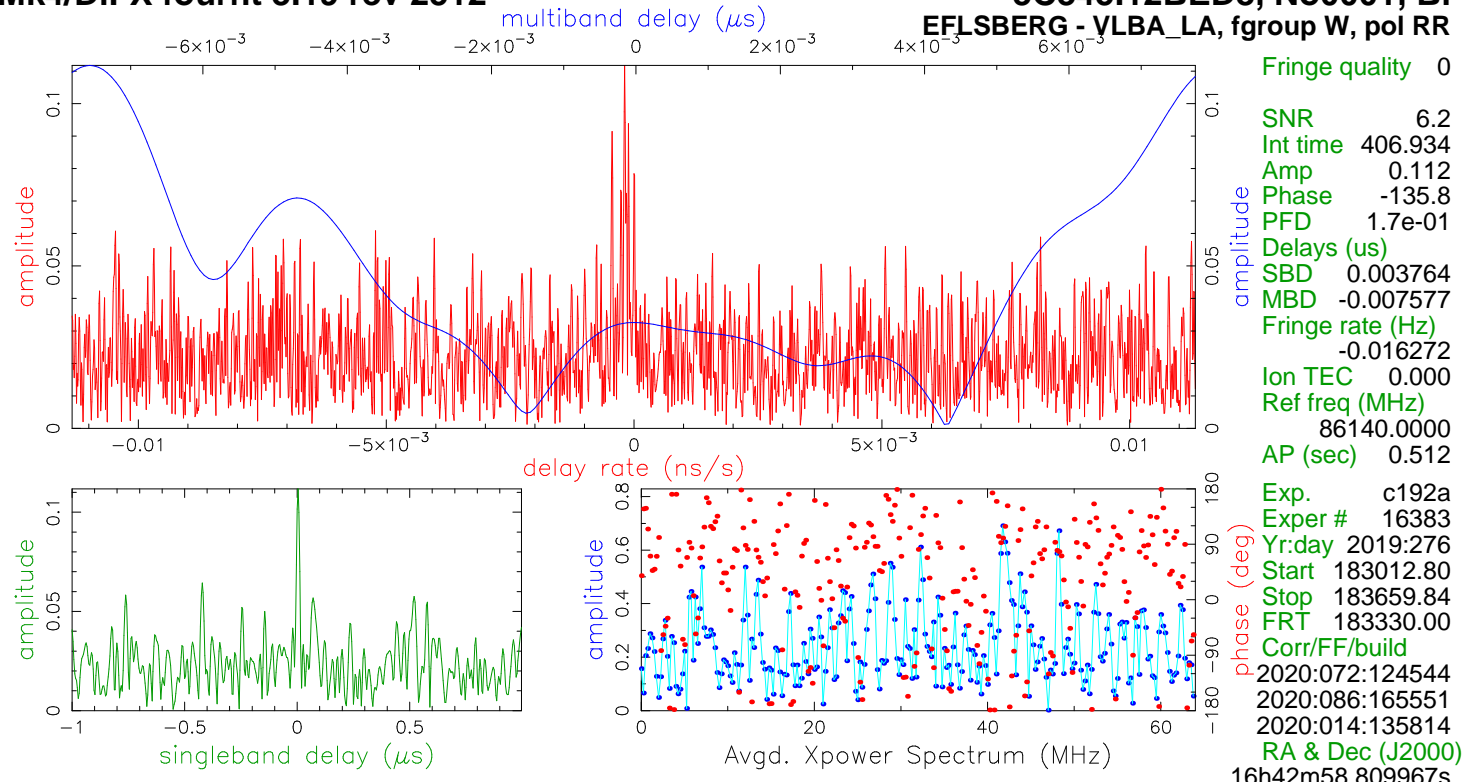
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165548
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

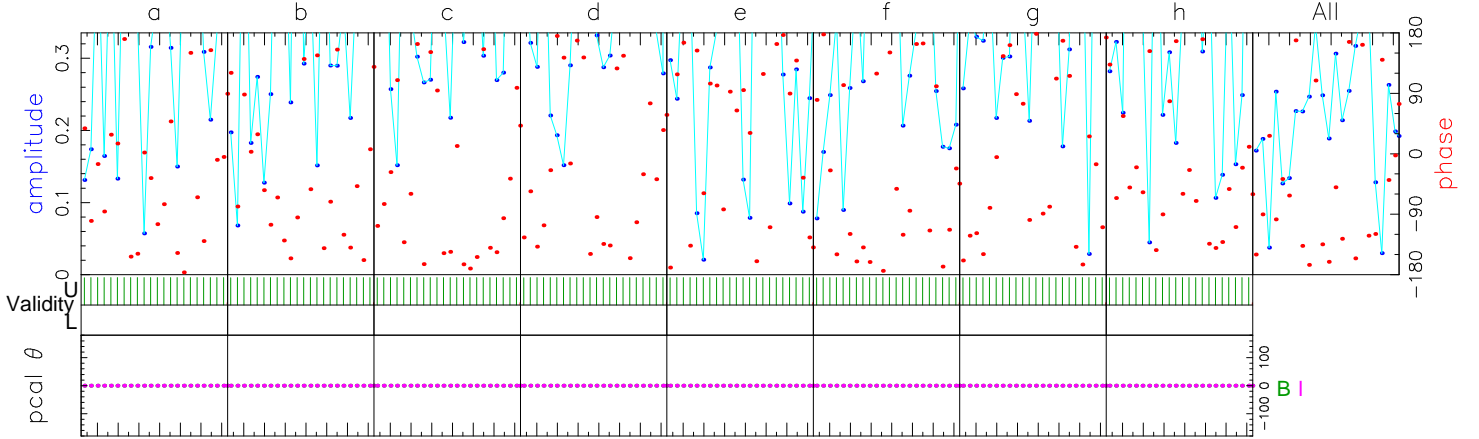


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-75.8	-25.3	-90.1	-44.1	-143.0	-52.0	-87.6	1.2	Phase	-63.8
	0.1	0.2	0.2	0.3	0.3	0.4	0.3	0.2	Ampl.	0.2
	464.8	255.1	256.9	256.5	257.0	255.9	256.4	257.3	Sbd box	255.7
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	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	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.45203461647E+03		Apriori delay (usec)		4.45203216074E+03		Resid mbdelay (usec)		2.45572E-03	+/- 1.0E-04
Sband delay (usec)	4.45202713624E+03		Apriori clock (usec)		1.7579317E+01		Resid sbdelay (usec)		-5.02450E-03	+/- 8.1E-04
Phase delay (usec)	4.45203215869E+03		Apriori clockrate (us/s)		1.5147200E-07		Resid phdelay (usec)		-2.05803E-06	+/- 3.5E-07
Delay rate (us/s)	-1.44025642883E+00		Apriori rate (us/s)		-1.44025627191E+00		Resid rate (us/s)		-1.56929E-07	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.00601945607E-05		Resid phase (deg)		-63.8	+/- 10.8

ph/seg (deg) 63.8 25.9 Search (2048X32) 0.188 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 105.1 45.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.1 15.3 Inc. seg. avg. 0.339 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.9 26.6 Inc. frq. avg. 0.242 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 I: az 63.9 el 37.8 pa -72.0 u,v (fr/asec) 10717.516 487.096 simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

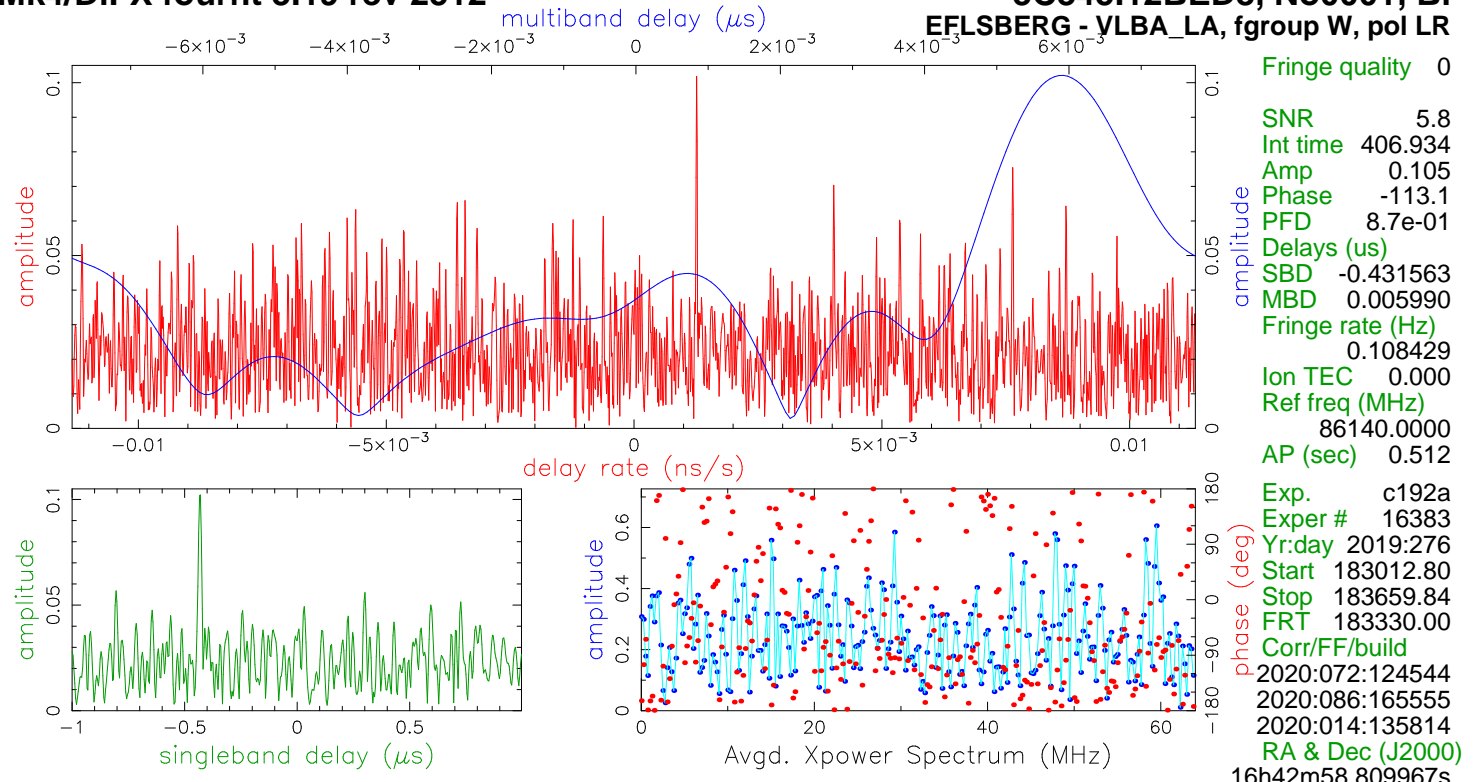


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-102.4	-106.8	-133.8	-148.0	162.3	-165.0	-150.3	-59.9	Phase	-135.8
	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	Ampl.	0.1
	383.6	259.1	258.2	16.4	258.7	407.8	502.5	259.3	Sbd box	258.0
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	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	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		4.45204020855E+03		Apriori delay (usec)	4.45203216074E+03		Resid mbdelay (usec)	-7.57719E-03	+/-	1.8E-04
Sband delay (usec)		4.45203592499E+03		Apriori clock (usec)	1.7579317E+01		Resid sbdelay (usec)	3.76425E-03	+/-	1.4E-03
Phase delay (usec)		4.45203215636E+03		Apriori clockrate (us/s)	1.5147200E-07		Resid phdelay (usec)	-4.37842E-06	+/-	6.0E-07
Delay rate (us/s)		-1.44025646080E+00		Apriori rate (us/s)	-1.44025627191E+00		Resid rate (us/s)	-1.88897E-07	+/-	2.6E-09
Total phase (deg)			-18.3	Apriori accel (us/s/s)	-1.00601945607E-05		Resid phase (deg)	-135.8	+/-	18.6

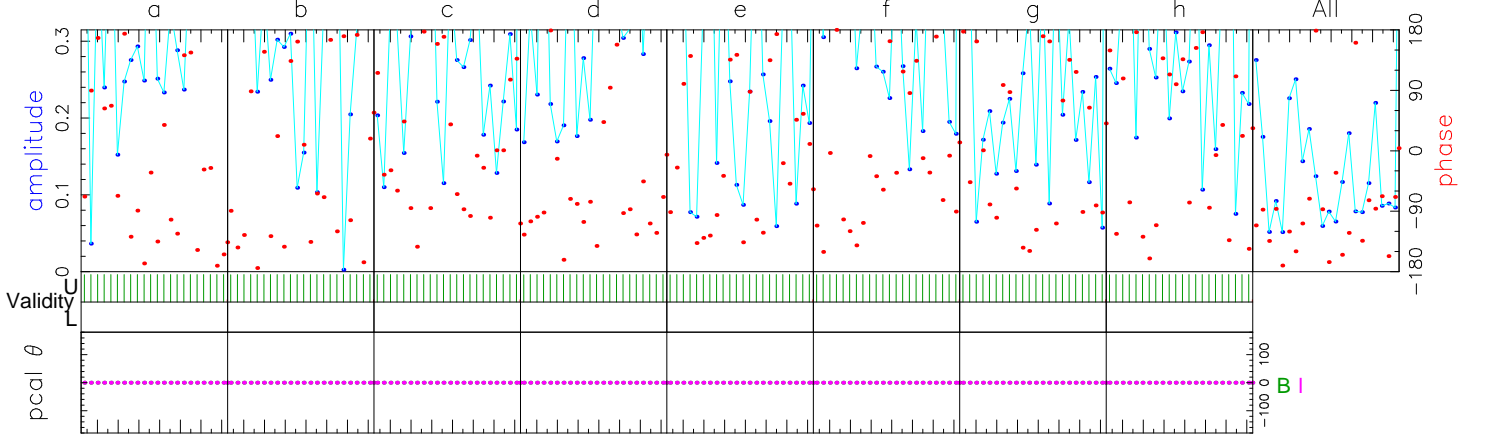
	RMS	Theor.	Amplitude	0.112 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	72.1	44.6	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	126.5	77.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	46.1	26.3	Inc. seg. avg.	0.169	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	43.7	45.9	Inc. frq. avg.	0.134	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 269.2 el 56.7 pa 55.8 I: az 63.9 el 37.8 pa -72.0 u,v (fr/asec) 10717.516 487.096 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BI.12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BI.W.31.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

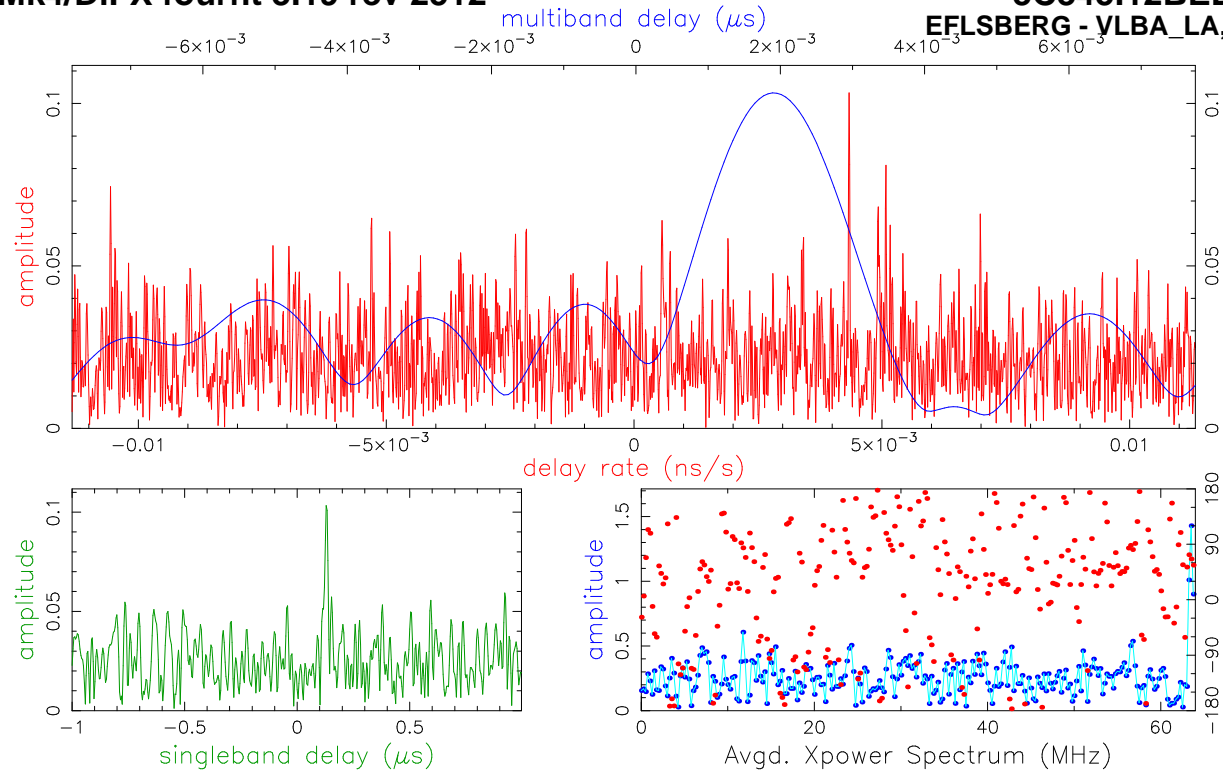


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-122.9	-144.0	-72.4	-99.9	-80.5	-81.7	-146.2	-165.2	Phase	-113.1
	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	284.9	82.5	443.9	146.3	403.3	165.3	450.1	462.7	Sbd box	146.5
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	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	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.45160065053E+03		Apriori delay (usec)		4.45203216074E+03		Resid mbdelay (usec)		5.98979E-03	+/- 1.9E-04
Sband delay (usec)	4.45160059824E+03		Apriori clock (usec)		1.7579317E+01		Resid sbdelay (usec)		-4.31563E-01	+/- 1.5E-03
Phase delay (usec)	4.45203215710E+03		Apriori clockrate (us/s)		1.5147200E-07		Resid phdelay (usec)		-3.64655E-06	+/- 6.4E-07
Delay rate (us/s)	-1.44025501315E+00		Apriori rate (us/s)		-1.44025627191E+00		Resid rate (us/s)		1.25875E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.00601945607E-05		Resid phase (deg)		-113.1	+/- 19.9

	RMS	Theor.	Amplitude	0.105 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	43.5	47.7	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	73.6	83.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	38.2	28.1	Inc. seg. avg.	0.097	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	42.8	49.1	Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

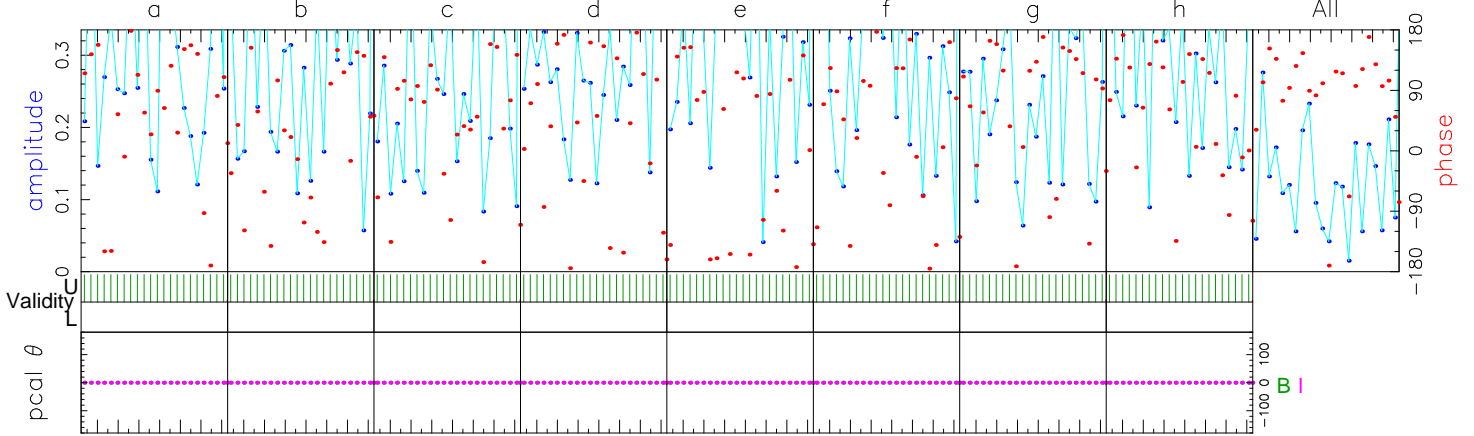
B: az 269.2 el 56.7 pa 55.8 I: az 63.9 el 37.8 pa -72.0 u,v (fr/asec) 10717.516 487.096 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BI.12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BI.W.47.12BED8



Fringe quality 0
SNR 5.8
Int time 406.934
Amp 0.112
Phase 113.0
PFD 8.2e-01
Delays (us)
SBD 0.130481
MBD 0.001904
Fringe rate (Hz)
0.374573
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165600
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

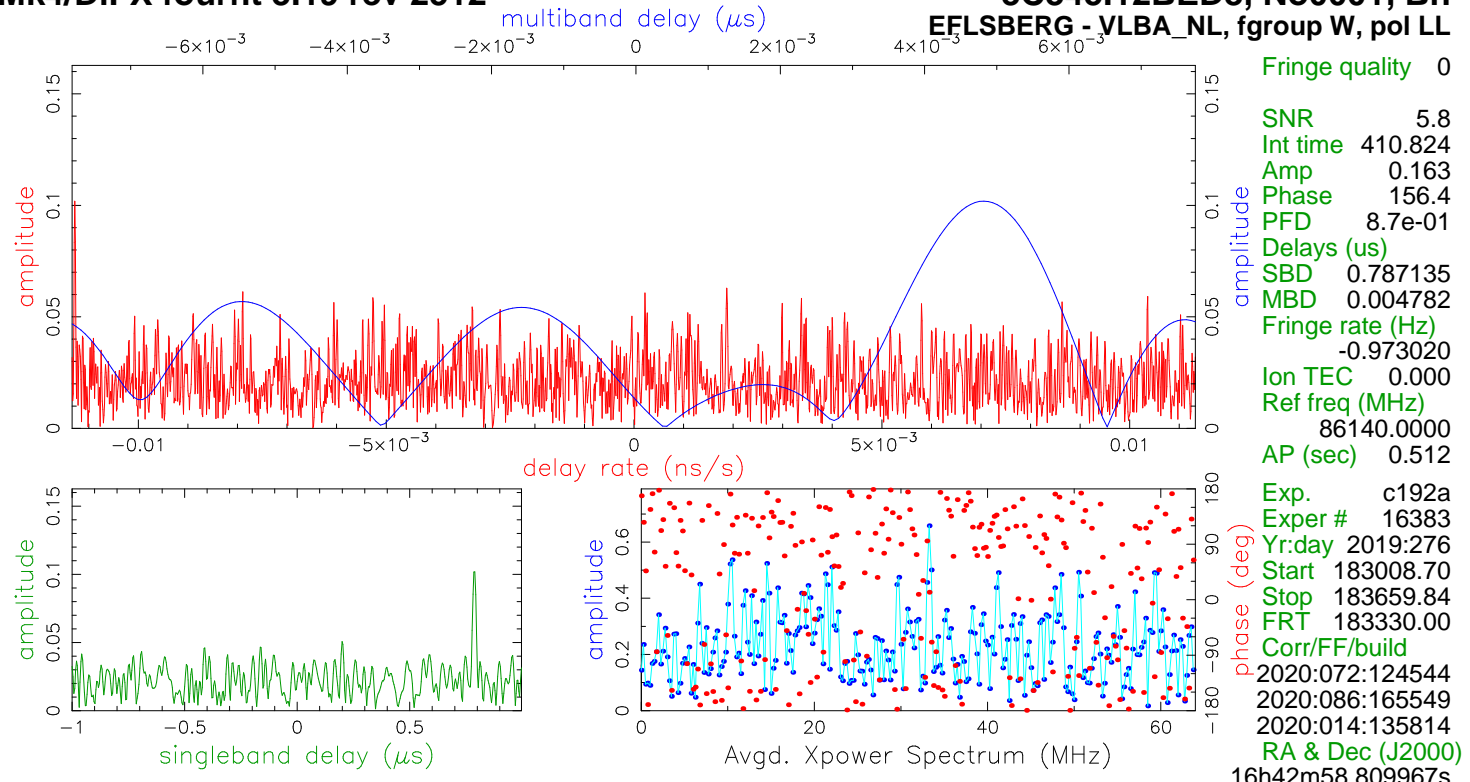


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	112.1	89.0	86.3	134.5	128.8	125.3	120.2	91.2	Phase	113.0
B	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
I	108.4	144.8	299.0	451.9	290.6	390.5	275.0	61.9	Sbd box	290.4
B	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
I	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	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

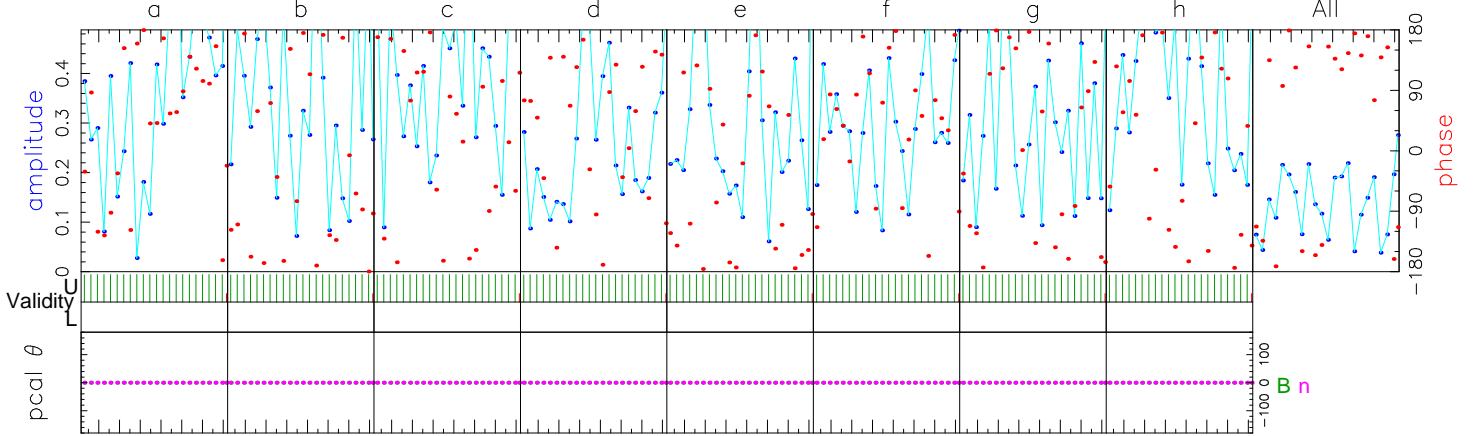
Group delay (usec)(sbd) 4.45215906436E+03 Apriori delay (usec) 4.45203216074E+03 Resid mbdelay (usec) 1.90362E-03 +/- 1.9E-04
Sband delay (usec) 4.45216264174E+03 Apriori clock (usec) 0.101 Resid sbdelay (usec) 1.30481E-01 +/- 1.5E-03
Phase delay (usec) 4.45203216439E+03 Apriori clockrate (us/s) 1.5147200E-07 Resid phdelay (usec) 3.64371E-06 +/- 6.4E-07
Delay rate (us/s) -1.44025192348E+00 Apriori rate (us/s) -1.44025627191E+00 Resid rate (us/s) 4.34843E-06 +/- 2.7E-09
Total phase (deg) 230.5 Apriori accel (us/s/s) -1.00601945607E-05 Resid phase (deg) 113.0 +/- 19.8

RMS Theor. Amplitude 0.112 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 53.0 47.4 Search (2048X32) 0.101 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 68.3 82.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 21.1 28.0 Inc. seg. avg. 0.098 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 42.3 48.8 Inc. frq. avg. 0.103 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 I: az 63.9 el 37.8 pa -72.0 u,v (fr/asec) 10717.516 487.096 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BI.12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BI.W.69.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

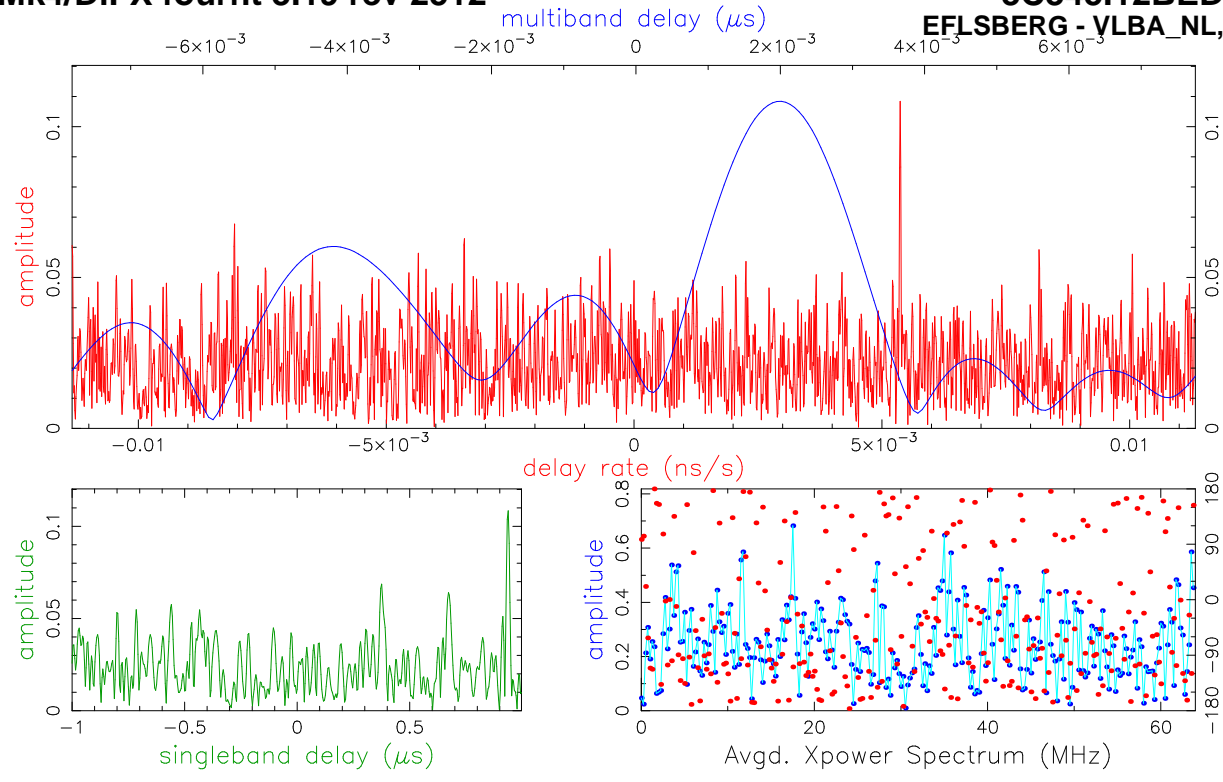


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
109.7	-162.7	152.7	120.1	174.1	92.9	167.8	165.1	156.4	Phase	156.4
0.2	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
116.3	459.0	402.9	507.2	448.1	255.5	458.8	341.3	458.5	Sbd box	458.5
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	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	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06543671490E+03		Apriori delay (usec)	1.06465068296E+03	Resid mbdelay (usec)	4.78195E-03	+/-	1.9E-04		
Sband delay (usec)	1.06543781771E+03		Apriori clock (usec)	-9.6362743E-07	Resid sbdelay (usec)	7.87135E-01	+/-	1.5E-03		
Phase delay (usec)	1.06465068800E+03		Apriori clockrate (us/s)	-3.3422351E-07	Resid phdelay (usec)	5.04447E-06	+/-	6.4E-07		
Delay rate (us/s)	-1.25232483473E+00		Apriori rate (us/s)	-1.25231353893E+00	Resid rate (us/s)	-1.12958E-05	+/-	2.7E-09		
Total phase (deg)		95.2	Apriori accel (us/s/s)	1.93173982764E-06	Resid phase (deg)	156.4	+/-	19.9		

	RMS	Theor.	Amplitude	0.163 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.7	47.7	Search (2048X32)	0.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.1	83.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	40.3	28.1	Inc. seg. avg.	0.159	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	40.2	49.1	Inc. frq. avg.	0.170	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bn.W.23.12BED8

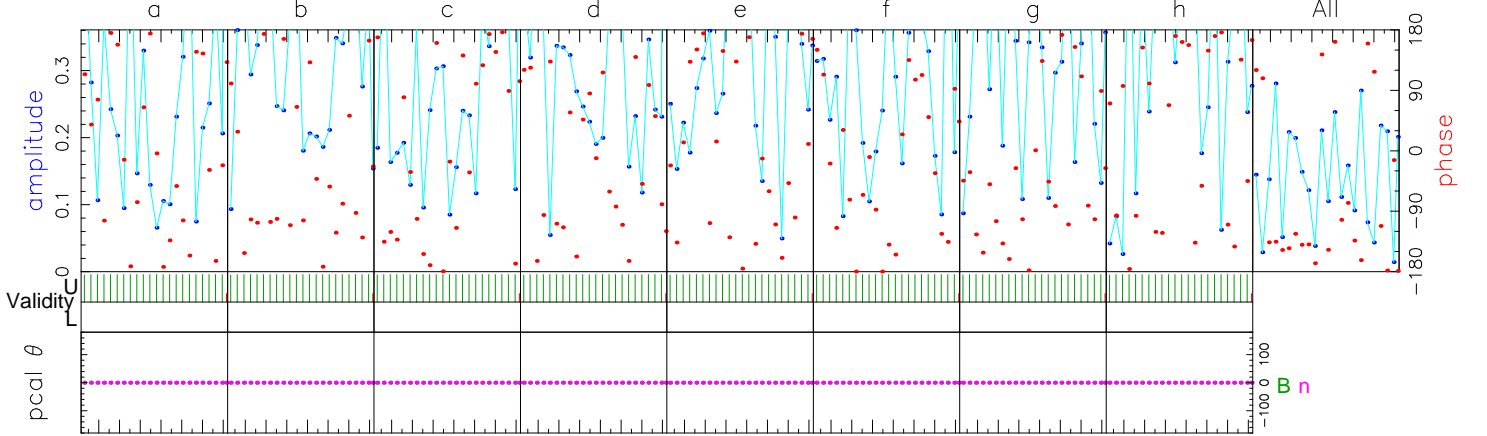


Fringe quality 0

SNR 6.1
Int time 410.824
Amp 0.120
Phase -154.0
PFD 2.8e-01
Delays (us)
SBD 0.936297
MBD 0.001993
Fringe rate (Hz)
0.462756
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

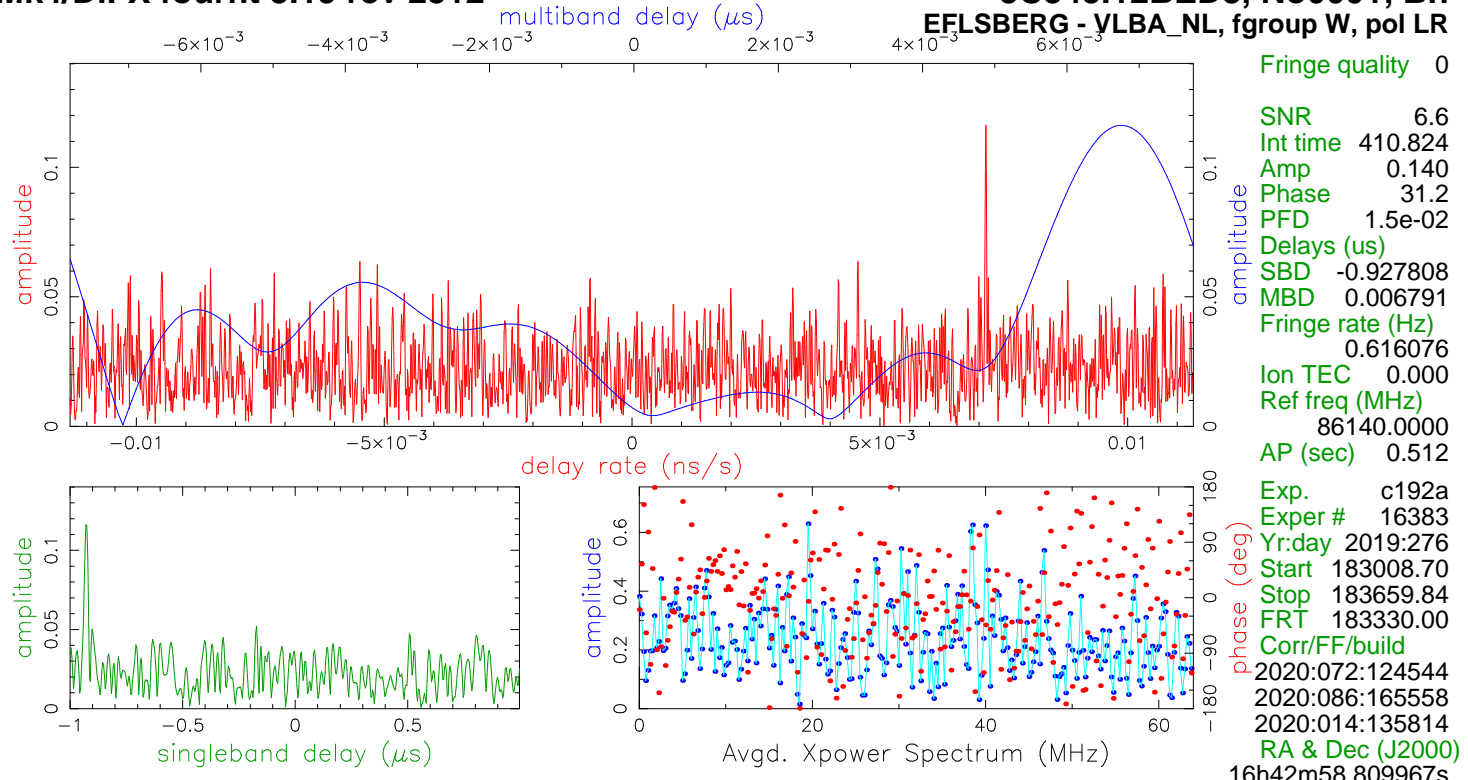
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165553
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

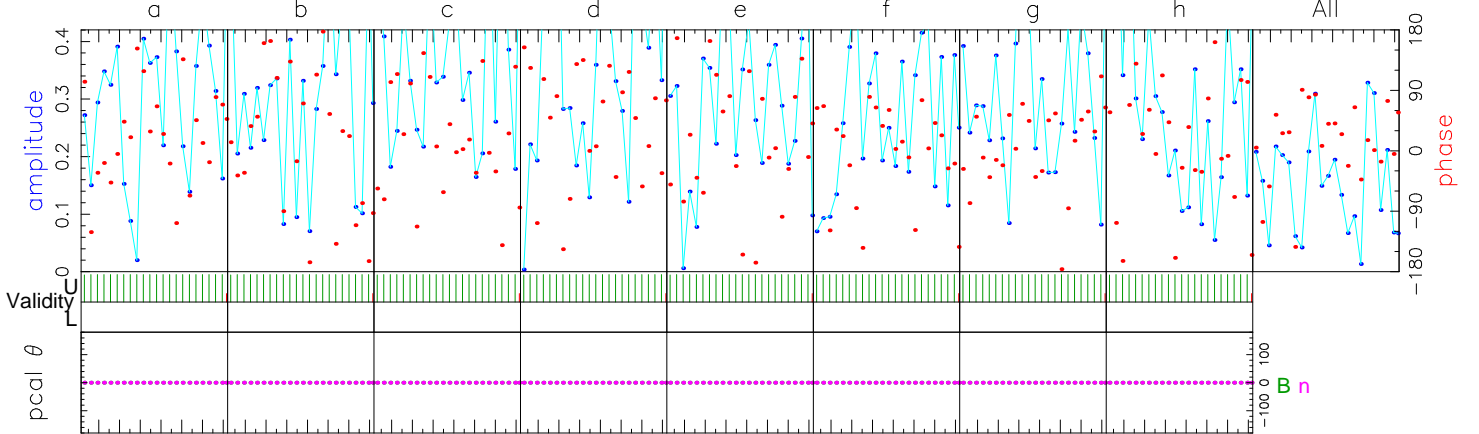


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.6	-124.5	174.0	-133.0	-139.7	-178.3	-114.9	-176.6	Phase	-154.0
	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	59.7	190.7	268.2	427.8	464.4	146.2	53.4	381.8	Sbd box	496.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	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	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.06559017582E+03		Apriori delay (usec)		1.06465068296E+03		Resid mbdelay (usec)		1.99287E-03	+/- 1.8E-04
Sband delay (usec)	1.06558697996E+03		Apriori clock (usec)		-9.6362743E+00		Resid sbdelay (usec)		9.36297E-01	+/- 1.4E-03
Phase delay (usec)	1.06465067799E+03		Apriori clockrate (us/s)		-3.3422351E-07		Resid phdelay (usec)		-4.96579E-06	+/- 6.1E-07
Delay rate (us/s)	-1.25230816679E+00		Apriori rate (us/s)		-1.25231353893E+00		Resid rate (us/s)		5.37214E-06	+/- 2.6E-09
Total phase (deg)	144.8		Apriori accel (us/s/s)		1.93173982764E-06		Resid phase (deg)		-154.0	+/- 18.9

ph/seg (deg) 54.5 45.3 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.5 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.7 26.7 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.2 46.6 Inc. frq. avg. 0.121 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bn.W.44.12BED8

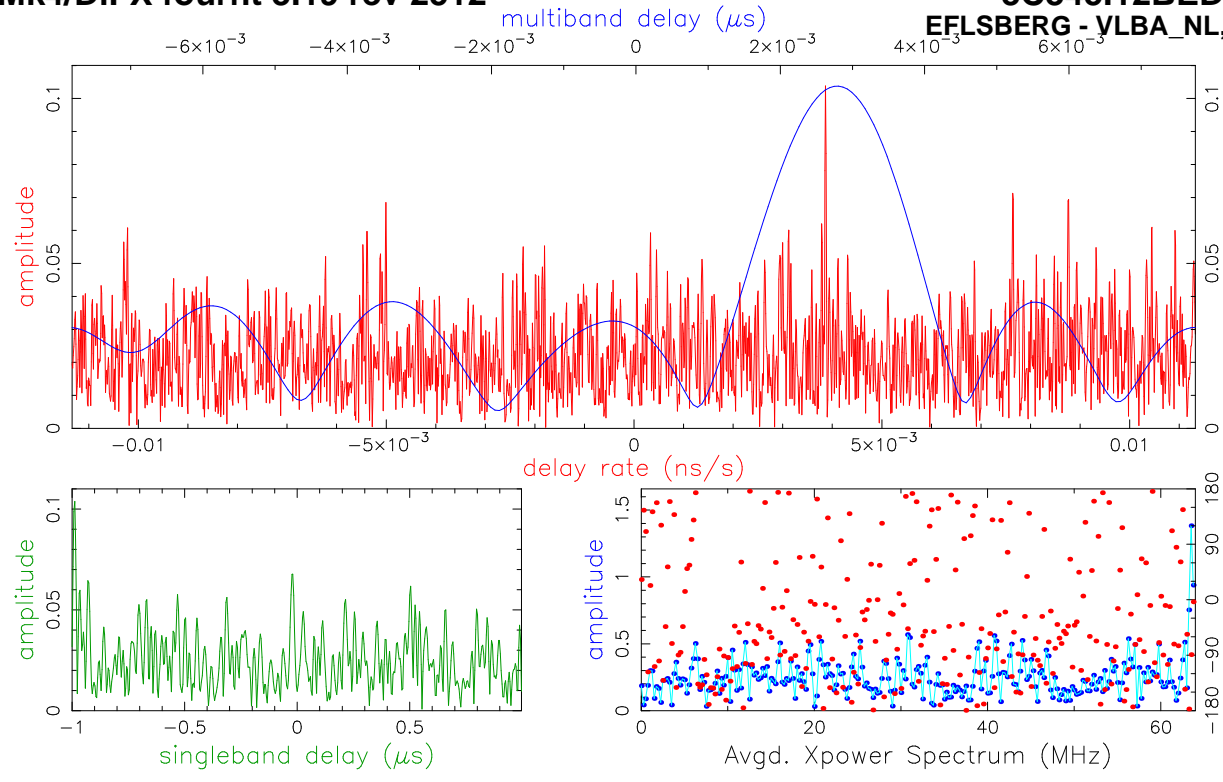


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



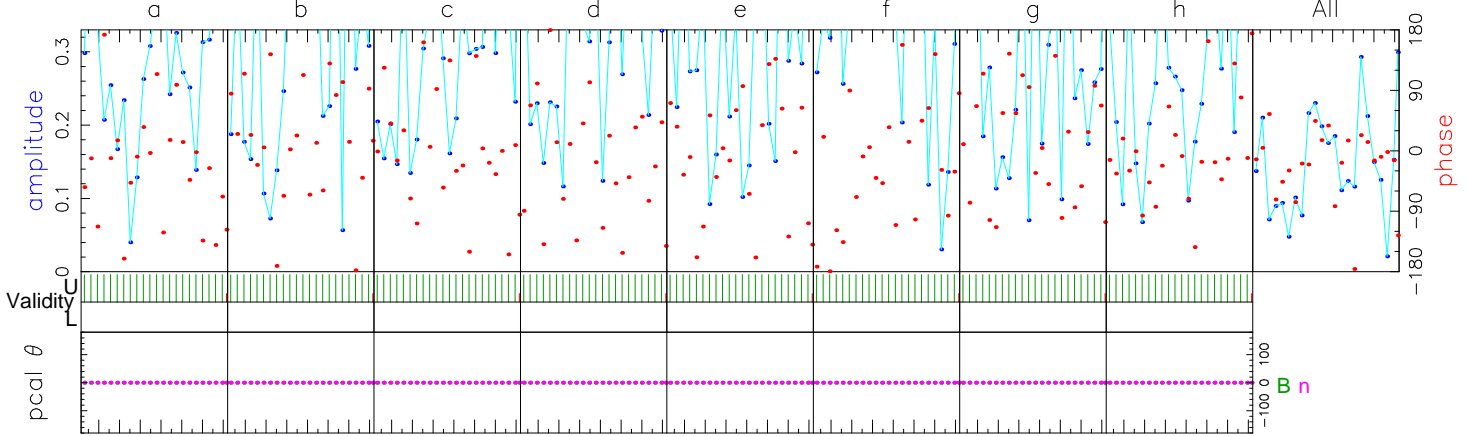
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
16.6	74.4	4.2	62.6	52.7	12.4	15.1	45.0	45.0	Phase	31.2
0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
466.7	201.1	54.2	19.9	6.8	486.8	18.9	378.0	378.0	Sbd box	19.5
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	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	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.06371997389E+03		Apriori delay (usec)	1.06465068296E+03	Resid mbdelay (usec)	6.79093E-03	+/-	1.7E-04		
Sband delay (usec)	1.06372287471E+03		Apriori clock (usec)	-9.6362743E+00	Resid sbdelay (usec)	-9.27808E-01	+/-	1.3E-03		
Phase delay (usec)	1.06465068396E+03		Apriori clockrate (us/s)	-3.3422351E-07	Resid phdelay (usec)	1.00513E-06	+/-	5.6E-07		
Delay rate (us/s)	-1.25230638689E+00		Apriori rate (us/s)	-1.25231353893E+00	Resid rate (us/s)	7.15203E-06	+/-	2.4E-09		
Total phase (deg)		329.9	Apriori accel (us/s/s)	1.93173982764E-06	Resid phase (deg)	31.2	+/-	17.5		

	RMS	Theor.	Amplitude	0.140 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	61.0	41.9	Search (2048X32)	0.115	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	81.6	73.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	29.0	24.7	Inc. seg. avg.	0.147	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	39.1	43.1	Inc. frq. avg.	0.138	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		



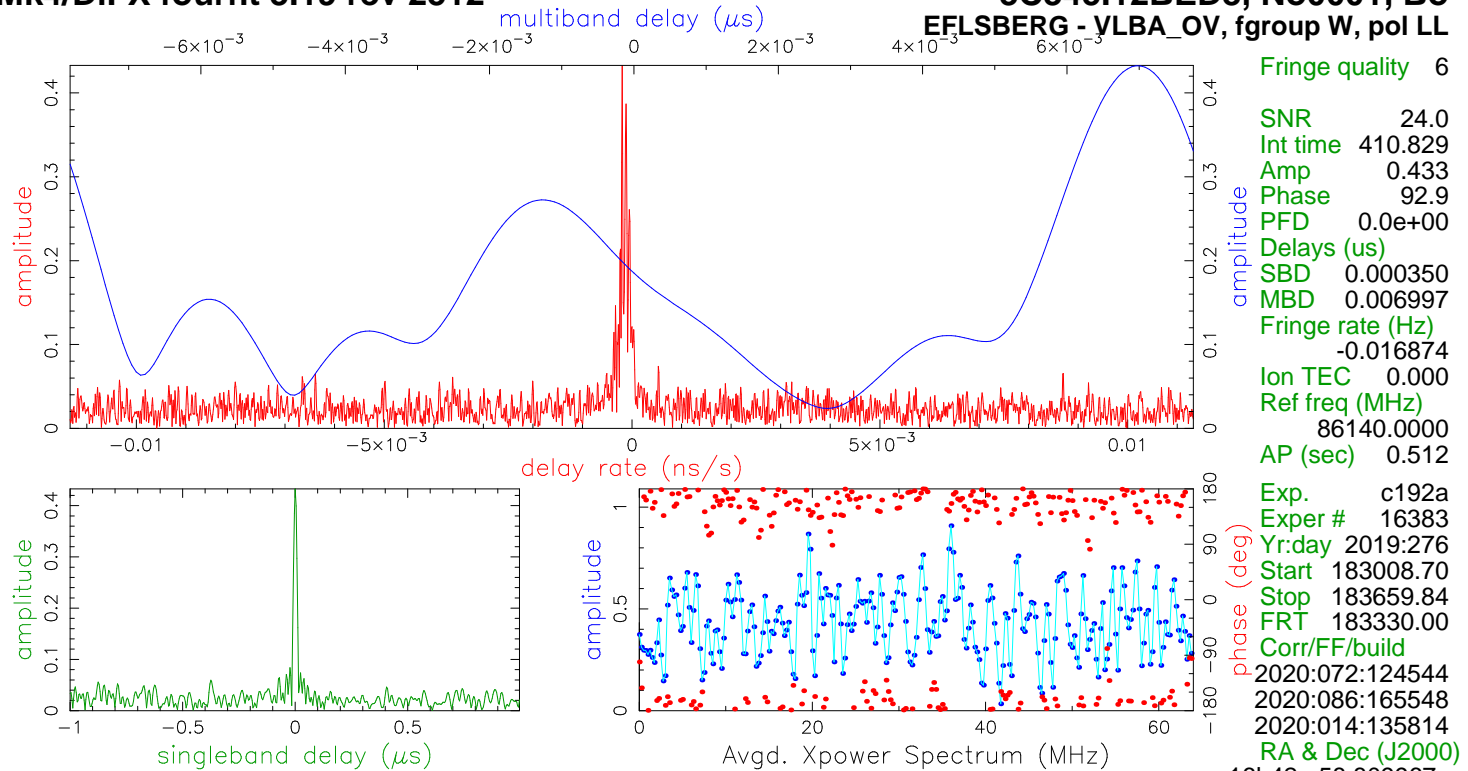
Fringe quality 0
SNR 5.8
Int time 410.824
Amp 0.110
Phase -5.1
PFD 7.9e-01
Delays (us)
SBD -0.989424
MBD 0.002780
Fringe rate (Hz) 0.333075
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165602
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

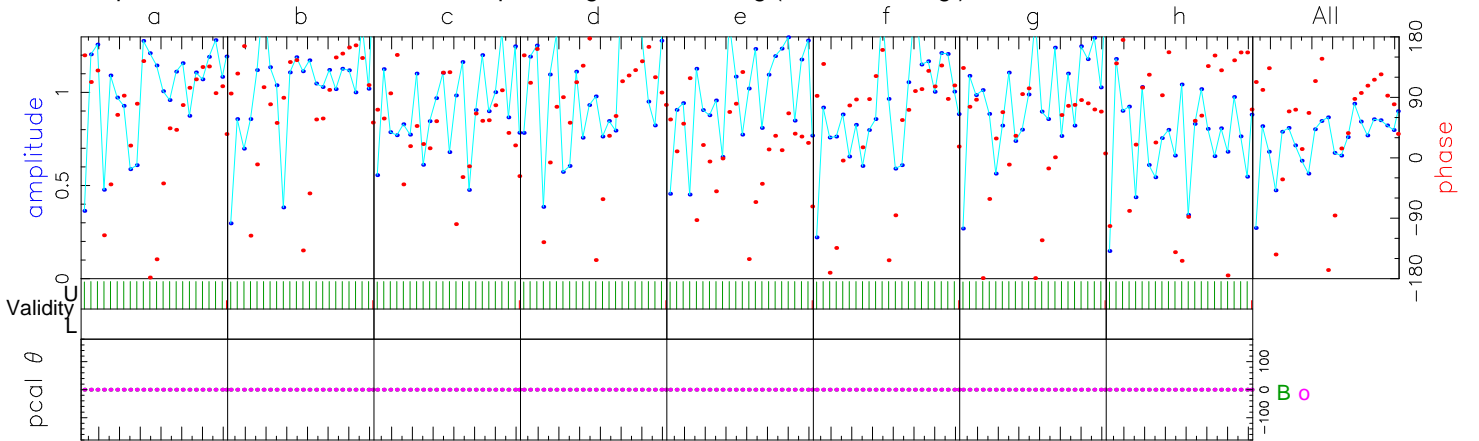


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.4	27.6	-6.2	-16.5	11.0	-31.8	22.6	-12.1	Phase	-5.1
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	462.2	3.2	225.9	97.7	97.3	107.0	308.1	385.0	Sbd box	3.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	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	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06365346321E+03		Apriori delay (usec)		1.06465068296E+03		Resid mbdelay (usec)		2.78026E-03	+/- 1.9E-04
Sband delay (usec)	1.06366125946E+03		Apriori clock (usec)		-9.6362743E-07		Resid sbdelay (usec)		-9.89424E-01	+/- 1.5E-03
Phase delay (usec)	1.06465068279E+03		Apriori clockrate (us/s)		-3.3422351E-07		Resid phdelay (usec)		-1.64620E-07	+/- 6.4E-07
Delay rate (us/s)	-1.25230967225E+00		Apriori rate (us/s)		-1.25231353893E+00		Resid rate (us/s)		3.86667E-06	+/- 2.7E-09
Total phase (deg)	293.6		Apriori accel (us/s/s)		1.93173982764E-06		Resid phase (deg)		-5.1	+/- 19.7

ph/seg (deg) 52.9 47.3 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.8 82.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 27.9 Inc. seg. avg. 0.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.7 48.7 Inc. frq. avg. 0.107 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 ion window (TEC) 0.00 0.00
 simultaneous interpolator

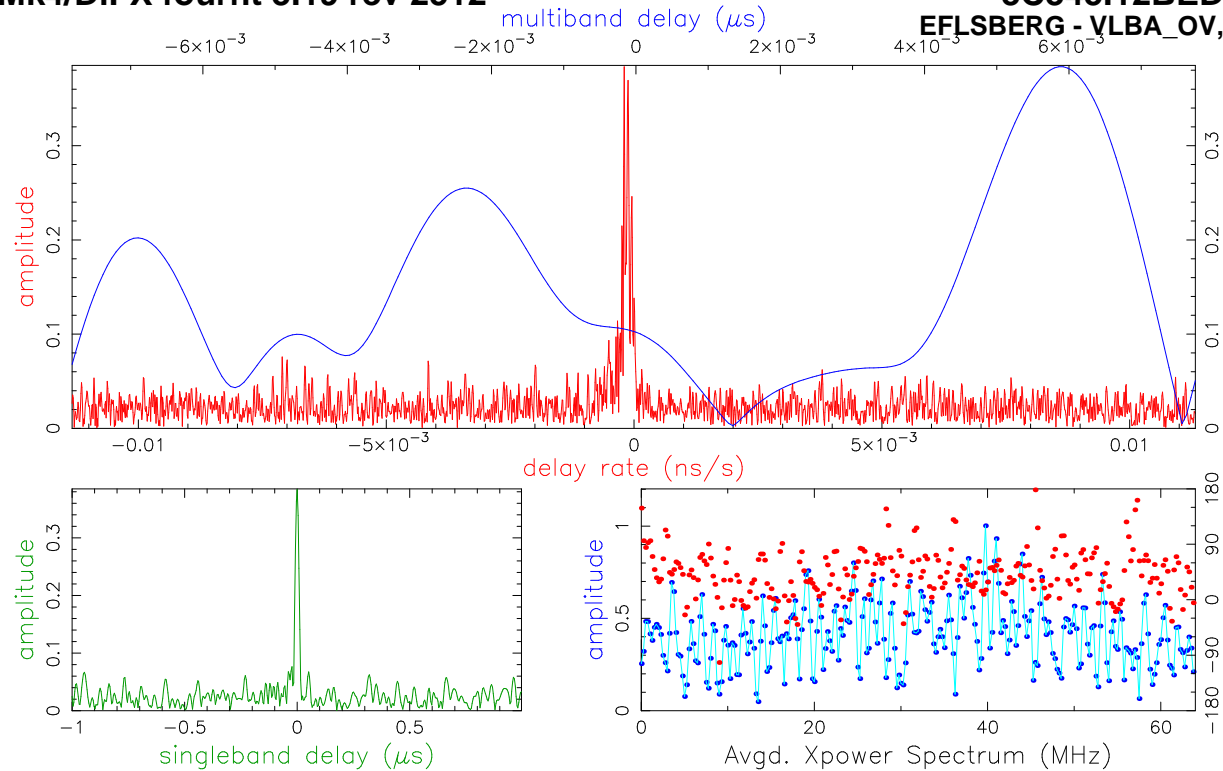


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	104.7	121.8	50.8	118.2	21.1	111.7	68.5	139.9	Phase	92.9
	0.5	0.5	0.6	0.7	0.6	0.6	0.5	0.4	Ampl.	0.5
	257.1	257.2	257.7	257.5	257.1	257.5	257.5	258.5	Sbd box	257.1
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	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	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.86453483103E+03		Apriori delay (usec)		6.86452783394E+03		Resid mbdelay (usec)		6.99709E-03	+/- 4.5E-05
Sband delay (usec)	6.86452818344E+03		Apriori clock (usec)		2.0928383E-01		Resid sbdelay (usec)		3.49500E-04	+/- 3.6E-04
Phase delay (usec)	6.86452783693E+03		Apriori clockrate (us/s)		-2.0098100E-07		Resid phdelay (usec)		2.99433E-06	+/- 1.5E-07
Delay rate (us/s)	-1.48316848256E+00		Apriori rate (us/s)		-1.48316828666E+00		Resid rate (us/s)		-1.95896E-07	+/- 6.5E-10
Total phase (deg)	314.3		Apriori accel (us/s/s)		-2.44504455346E-05		Resid phase (deg)		92.9	+/- 4.8

ph/seg (deg) 66.6 11.5 Search (2048X32) 0.411 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.9 20.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.1 6.8 Inc. seg. avg. 0.727 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.3 11.8 Inc. frq. avg. 0.538 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 11012.287 -596.290 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bo..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bo.W.20.12BED8

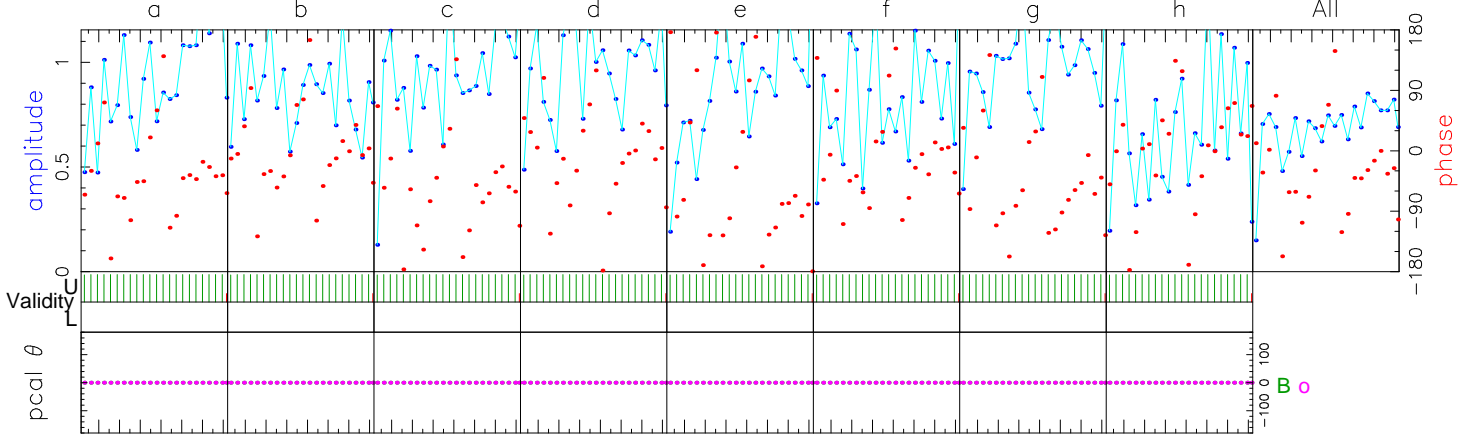


Fringe quality 8

SNR 21.3
Int time 410.829
Amp 0.385
Phase -35.2
PFD 0.0e+00
Delays (us)
SBD -0.000782
MBD 0.005871
Fringe rate (Hz)
-0.016987
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

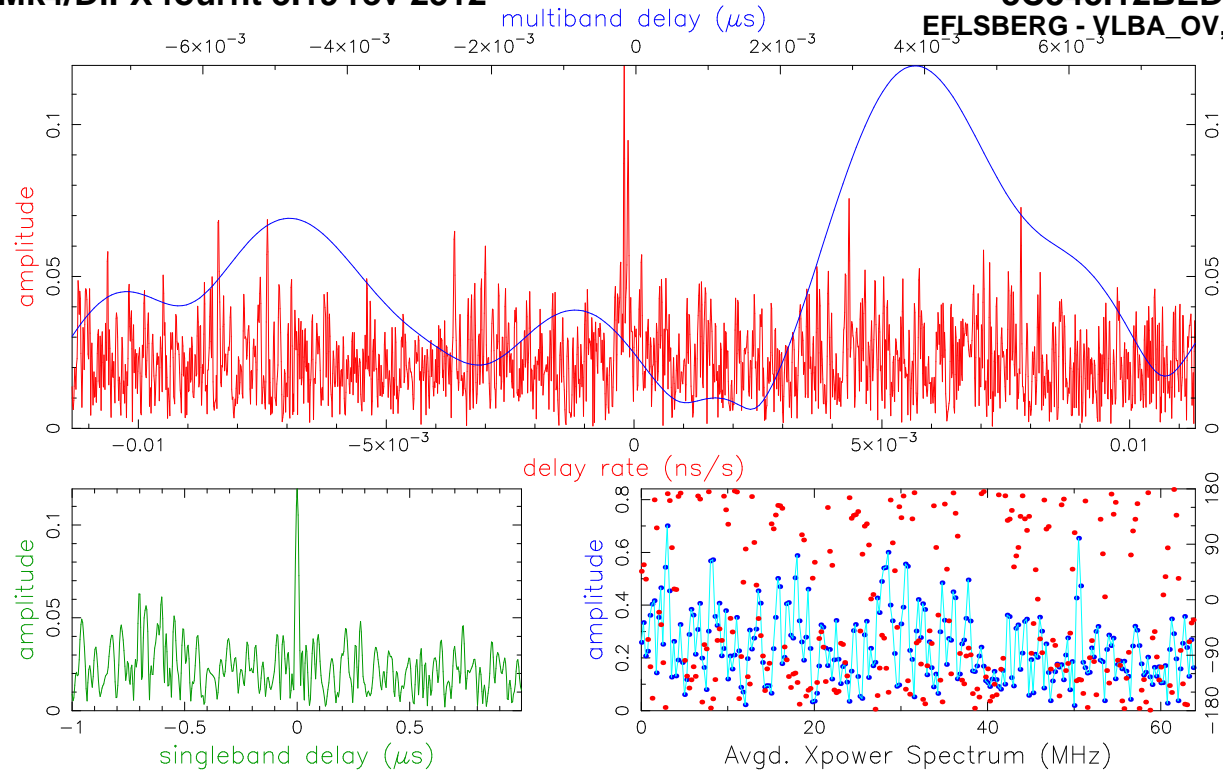
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165553
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



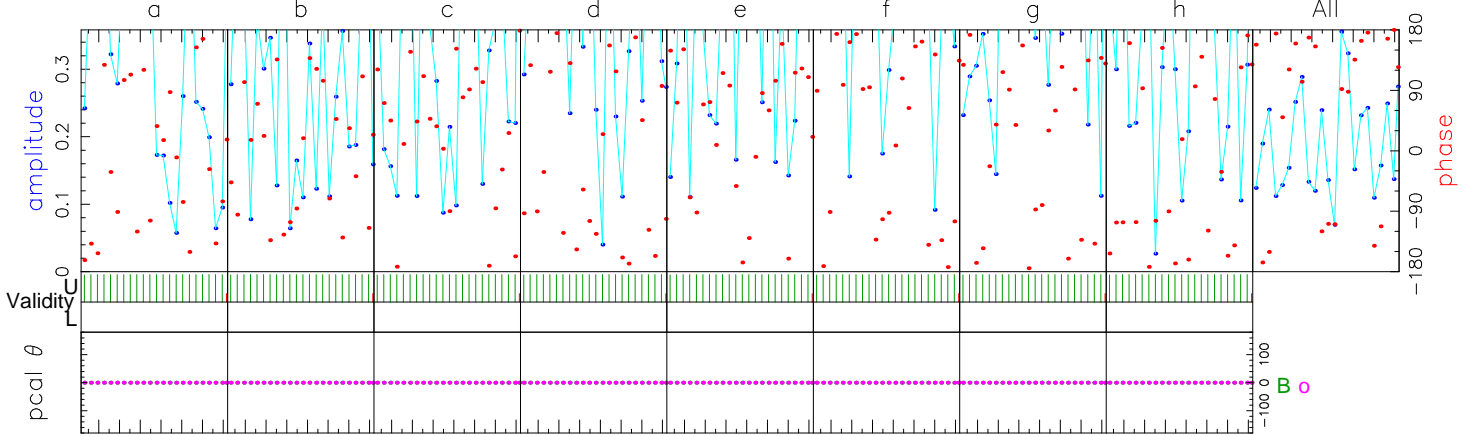
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-40.1	-8.0	-57.4	0.0	-111.3	-22.5	-68.7	25.9	Phase	-35.2
	0.6	0.5	0.5	0.5	0.4	0.5	0.5	0.4	Ampl.	0.5
	257.1	256.4	257.0	257.4	257.8	257.5	258.1	257.1	Sbd box	256.8
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	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	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.86453370515E+03		Apriori delay (usec)		6.86452783394E+03		Resid mbdelay (usec)		5.87122E-03	+/- 5.1E-05
Sband delay (usec)	6.86452705219E+03		Apriori clock (usec)		2.0928383E-01		Resid sbdelay (usec)		-7.81750E-04	+/- 4.0E-04
Phase delay (usec)	6.86452783280E+03		Apriori clockrate (us/s)		-2.0098100E-07		Resid phdelay (usec)		-1.13567E-06	+/- 1.7E-07
Delay rate (us/s)	-1.48316848386E+00		Apriori rate (us/s)		-1.48316828666E+00		Resid rate (us/s)		-1.97199E-07	+/- 7.3E-10
Total phase (deg)	186.2		Apriori accel (us/s/s)		-2.44504455346E-05		Resid phase (deg)		-35.2	+/- 5.4

ph/seg (deg) 67.2 12.9 Search (2048X32) 0.377 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.8 22.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.1 7.6 Inc. seg. avg. 0.666 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.0 13.2 Inc. frq. avg. 0.481 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 11012.287 -596.290 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bo..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bo.W.43.12BED8



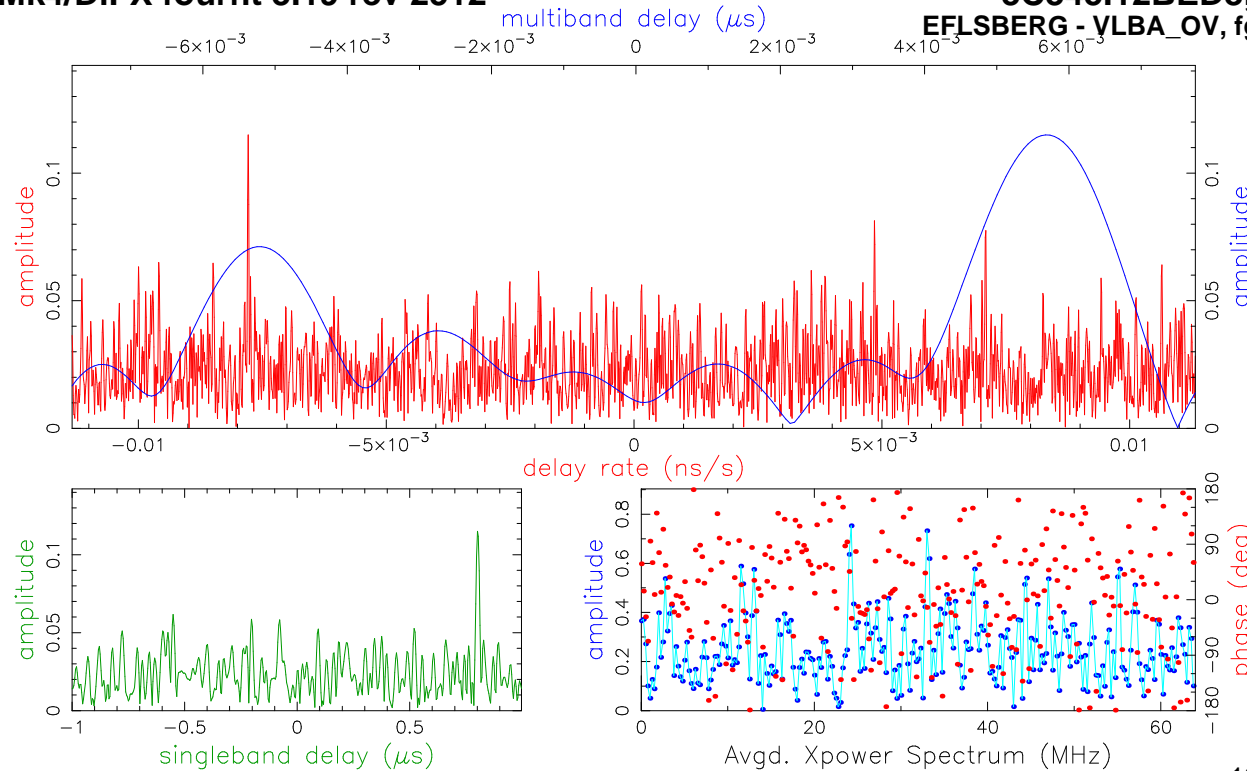
Fringe quality 0
SNR 6.6
Int time 410.829
Amp 0.119
Phase 159.1
PFD 1.0e-02
Delays (us)
SBD -0.000422
MBD 0.003854
Fringe rate (Hz)
-0.017165
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165558
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



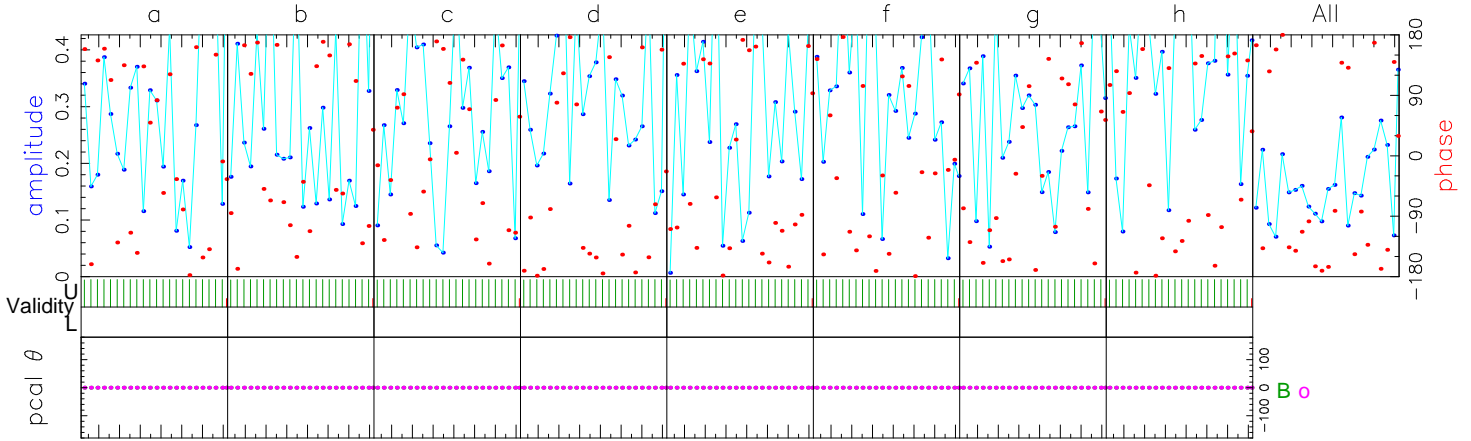
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-168.7	-151.9	92.1	-163.7	109.9	154.7	155.1	-170.9	Phase	159.1
	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.1
	502.2	491.9	446.2	256.4	257.8	257.3	255.5	507.1	Sbd box	256.9
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	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	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.86453168765E+03		Apriori delay (usec)		6.86452783394E+03		Resid mbdelay (usec)		3.85372E-03	+/- 1.6E-04
Sband delay (usec)	6.86452741219E+03		Apriori clock (usec)		2.0928383E-01		Resid sbdelay (usec)		-4.21750E-04	+/- 1.3E-03
Phase delay (usec)	6.86452783907E+03		Apriori clockrate (us/s)		-2.0098100E-07		Resid phdelay (usec)		5.13166E-06	+/- 5.6E-07
Delay rate (us/s)	-1.48316848593E+00		Apriori rate (us/s)		-1.48316828666E+00		Resid rate (us/s)		-1.99272E-07	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.44504455346E-05		Resid phase (deg)		159.1	+/- 17.3

ph/seg (deg) 54.7 41.5 Search (2048X32) 0.118 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 86.3 72.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 45.9 24.5 Inc. seg. avg. 0.150 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 51.9 42.7 Inc. frq. avg. 0.136 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 269.2 el 56.7 pa 55.8 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 11012.287 -596.290 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bo..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bo.W.63.12BED8



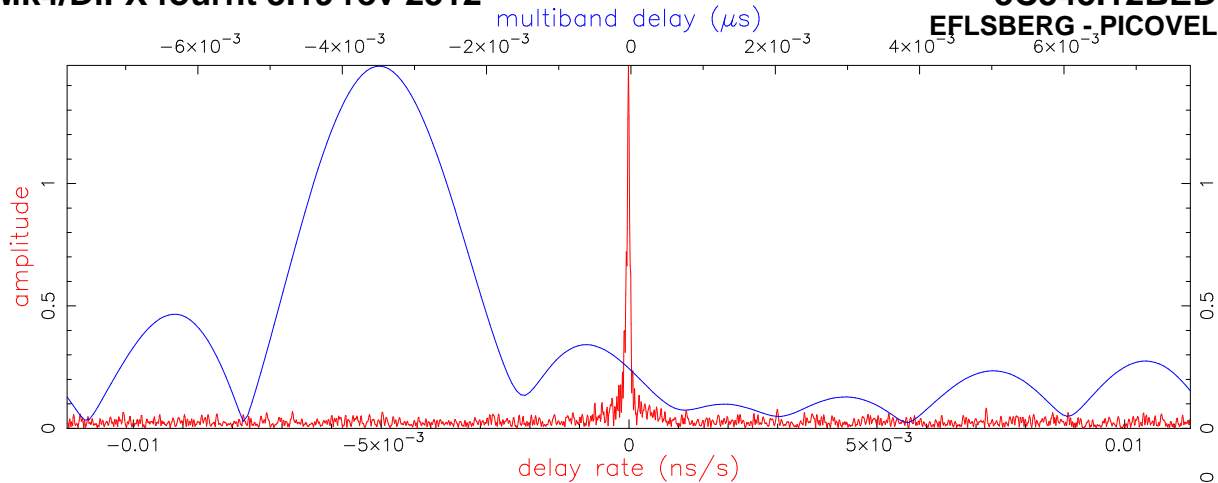
Fringe quality 0
SNR 6.4
Int time 410.829
Amp 0.142
Phase -159.1
PFD 3.3e-02
Delays (us)
SBD 0.802105
MBD 0.005717
Fringe rate (Hz)
-0.671366
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165603
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



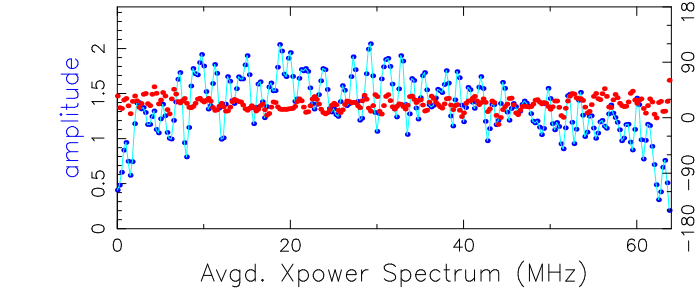
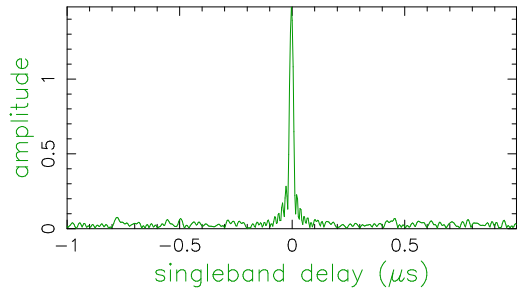
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	177.0	-131.2	-69.6	-173.7	-142.3	-148.4	-172.6	-168.2	Phase	-159.1
	0.2	0.2	0.0	0.2	0.2	0.1	0.1	0.2	Ampl.	0.1
	239.6	219.0	139.6	49.6	463.0	278.6	104.3	115.9	Sbd box	462.3
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	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	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.86533042553E+03		Apriori delay (usec)		6.86452783394E+03		Resid mbdelay (usec)		5.71660E-03	+/- 1.7E-04
Sband delay (usec)	6.86532993944E+03		Apriori clock (usec)		2.0928383E-01		Resid sbdelay (usec)		8.02105E-01	+/- 1.3E-03
Phase delay (usec)	6.86452782880E+03		Apriori clockrate (us/s)		-2.0098100E-07		Resid phdelay (usec)		-5.13105E-06	+/- 5.7E-07
Delay rate (us/s)	-1.48317608056E+00		Apriori rate (us/s)		-1.48316828666E+00		Resid rate (us/s)		-7.79390E-06	+/- 2.4E-09
Total phase (deg)	62.3		Apriori accel (us/s/s)		-2.44504455346E-05		Resid phase (deg)		-159.1	+/- 17.8

ph/seg (deg) 48.5 42.7 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.9 74.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.3 25.2 Inc. seg. avg. 0.156 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.4 43.9 Inc. frq. avg. 0.136 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 11012.287 -596.290 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bo..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bo.W.83.12BED8



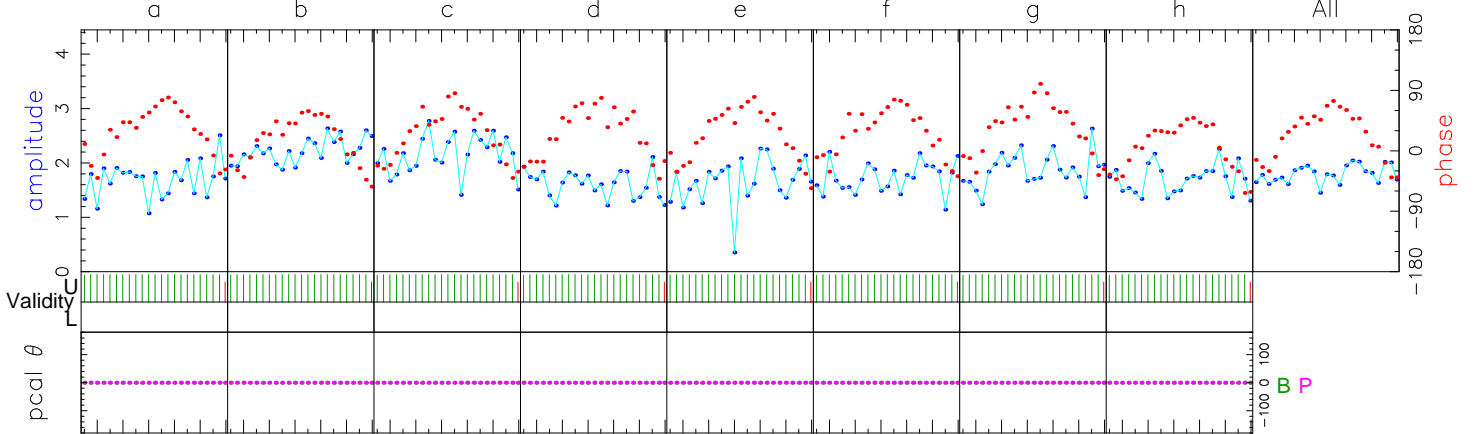
Fringe quality 6

SNR 74.4
Int time 336.738
Amp 1.483
Phase 23.8
PFD 0.0e+00
Delays (us)
SBD -0.003282
MBD -0.003469
Fringe rate (Hz)
-0.000523
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Yr:day 16383
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165548
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



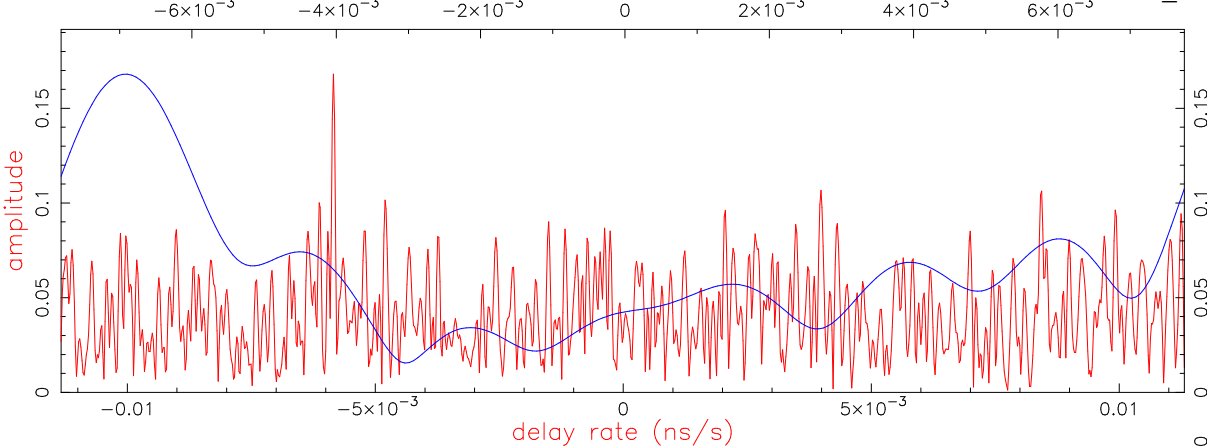
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.06030337555E+03	Apriori delay (usec)	-1.06029990636E+03	Resid mbdelay (usec)	-3.46919E-03	+/-	1.5E-05
Sband delay (usec)	-1.06030318836E+03	Apriori clock (usec)	1.6929031E+01	Resid sbdelay (usec)	-3.28200E-03	+/-	1.2E-04
Phase delay (usec)	-1.06029990559E+03	Apriori clockrate (us/s)	1.5299999E-07	Resid phdelay (usec)	7.68991E-07	+/-	5.0E-08
Delay rate (us/s)	1.22893330793E-02	Apriori rate (us/s)	1.22893391516E-02	Resid rate (us/s)	-6.07234E-09	+/-	2.5E-10
Total phase (deg)	-312.3	Apriori accel (us/s/s)	1.79330549472E-05	Resid phase (deg)	23.8	+/-	1.5

ph/seg (deg)	35.1	Theor.	3.7	Amplitude	1.483 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	23.8		6.4	Search (2048X32)	1.430	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	9.7		2.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	12.4		3.8	Inc. seg. avg.	1.793	Sample rate(MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	1.494	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

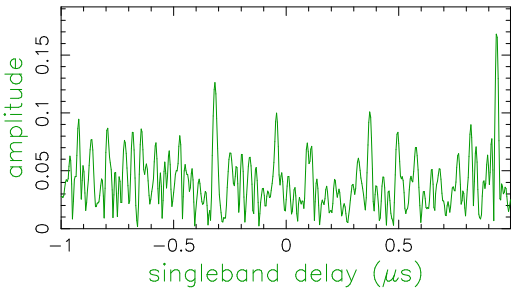
B: az 269.2 el 56.7 pa 55.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BP.W.19.12BED8

multiband delay (μs)

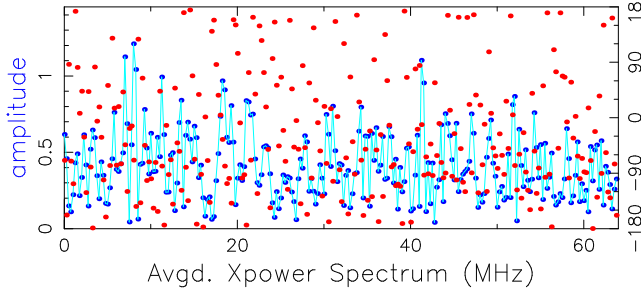


Fringe quality 0

SNR 5.5
Int time 138.827
Amp 0.192
Phase -24.2
PFD 9.8e-01
Delays (us)
SBD 0.935234
MBD -0.006925
Fringe rate (Hz)
-0.504000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

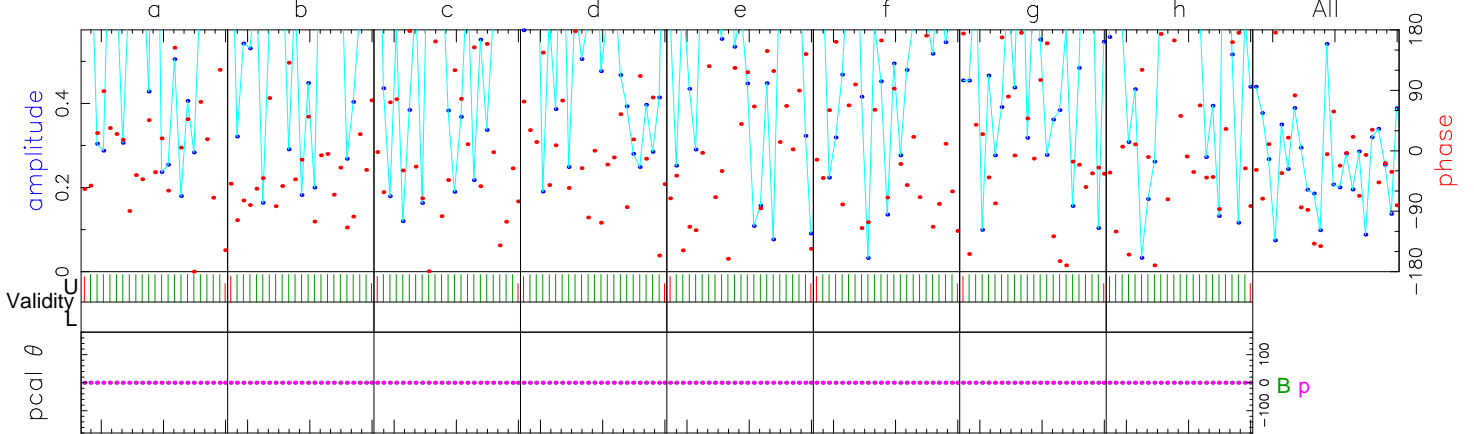


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183440.58
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165545
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



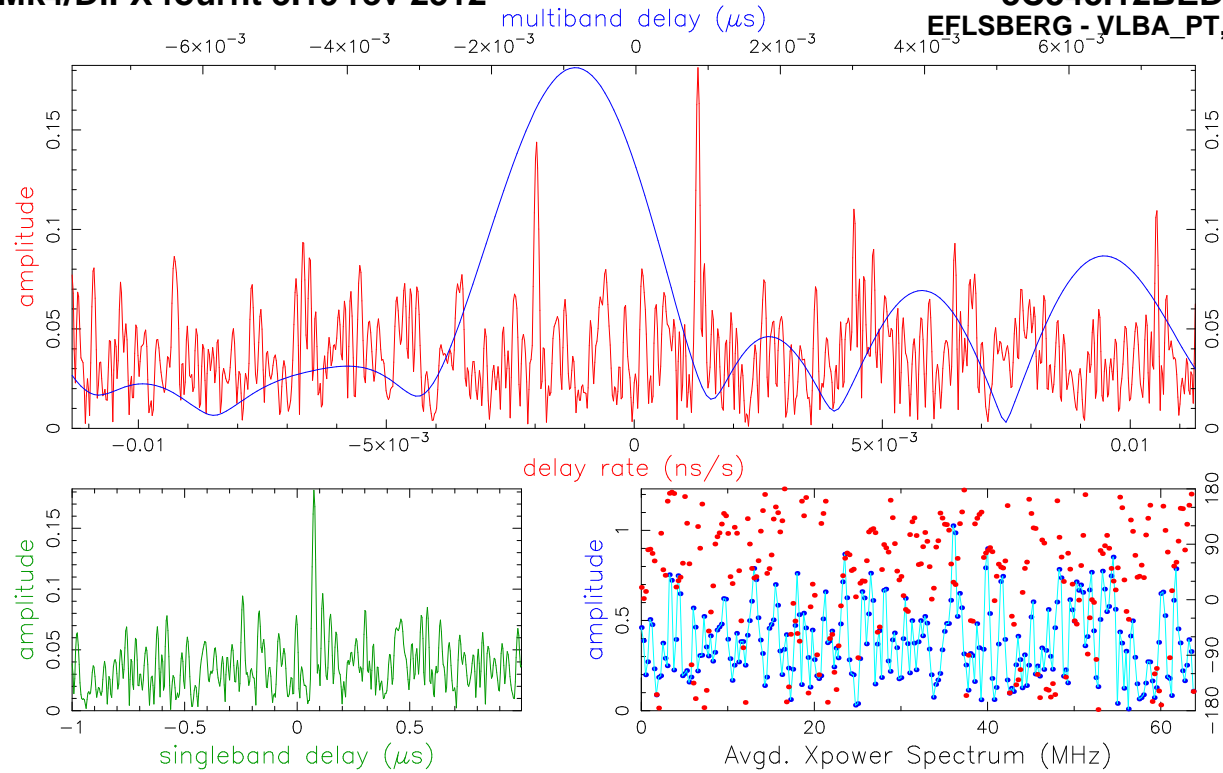
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-12.8	-37.3	-55.3	-3.1	45.3	-32.7	-43.2	-27.1	Phase	-24.2
	0.3	0.4	0.2	0.3	0.1	0.1	0.1	0.2	Ampl.	0.2
	316.0	496.5	453.2	351.3	341.1	53.7	320.3	104.9	Sbd box	496.4
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.03850404885E+03	Apriori delay (usec)	5.03757347355E+03	Resid mbdelay (usec)	-6.92469E-03	+/-	2.0E-04
Sband delay (usec)	5.03850870780E+03	Apriori clock (usec)	4.9331589E+00	Resid sbdelay (usec)	9.35234E-01	+/-	1.6E-03
Phase delay (usec)	5.03757347277E+03	Apriori clockrate (us/s)	-4.0388659E-07	Resid phdelay (usec)	-7.79335E-07	+/-	6.7E-07
Delay rate (us/s)	-1.46875315899E+00	Apriori rate (us/s)	-1.46874730806E+00	Resid rate (us/s)	-5.85094E-06	+/-	8.3E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.17235405842E-05	Resid phase (deg)	-24.2	+/-	20.8

ph/seg (deg)	RMS 64.7	Theor. 49.8	Amplitude Search (1024X32)	0.192 +/- 0.035	0.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.4	86.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	34.1	29.4	Inc. seg. avg.	0.216	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011
amp/frq (%)	62.0	51.2	Inc. frq. avg.	0.178	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

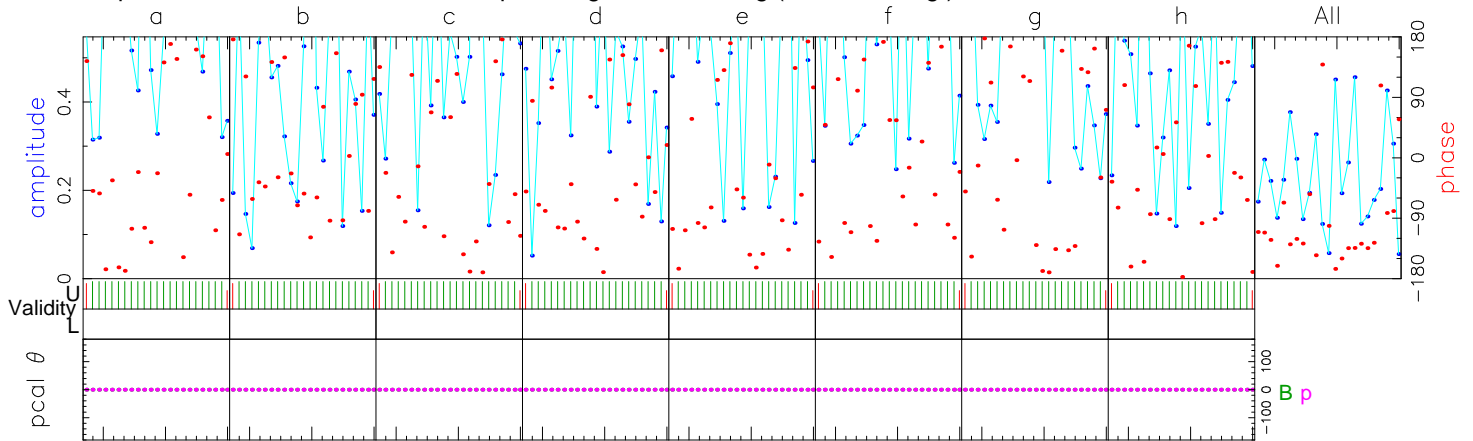
B: az 269.2 el 56.7 pa 55.8 p: az 62.4 el 35.8 pa -72.8 u,v (fr/asec) 10927.295 518.905 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bp..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bp.W.2.12BED8



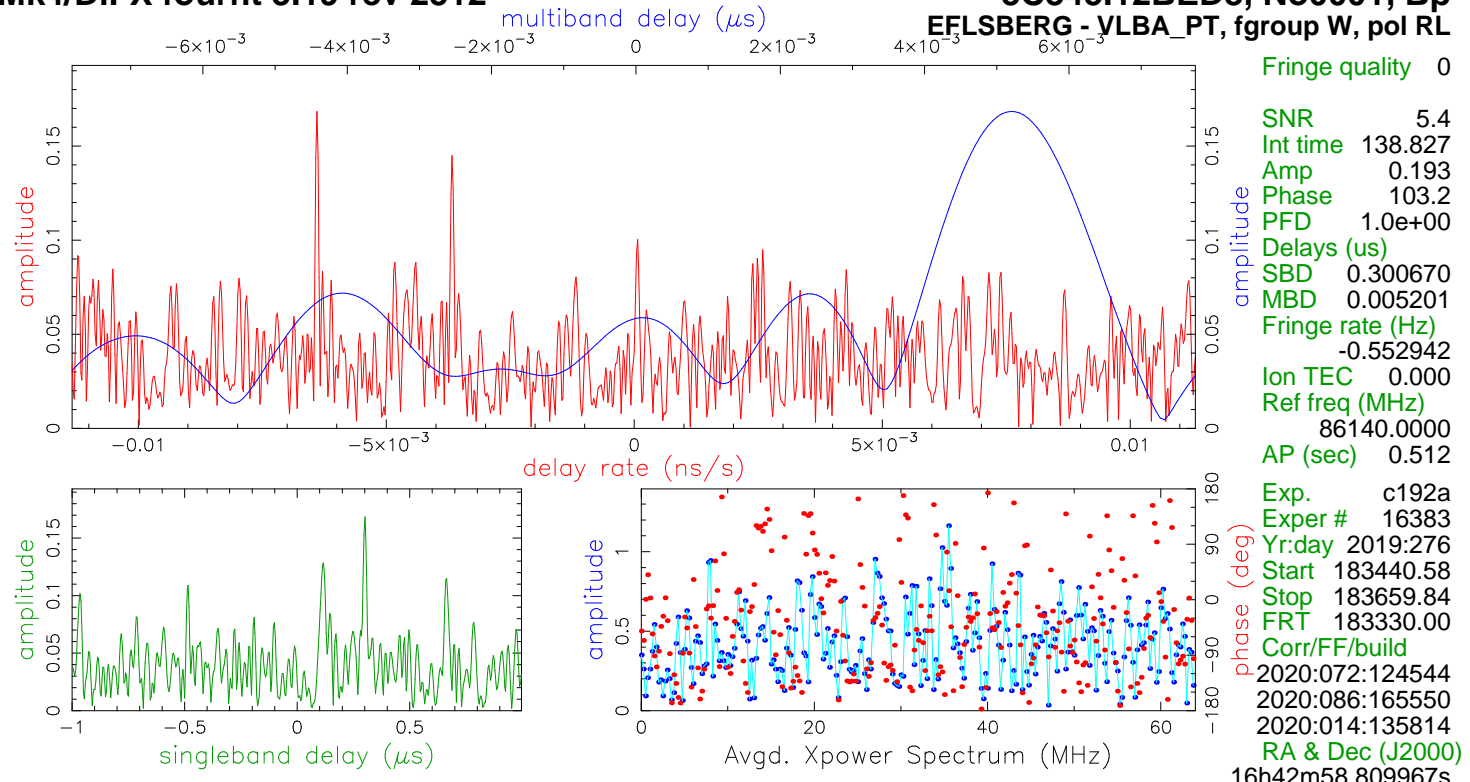
Fringe quality 0
 SNR 5.8
 Int time 138.827
 Amp 0.182
 Phase -124.9
 PFD 4.6e-01
 Delays (us)
 SBD 0.074616
 MBD -0.000826
 Fringe rate (Hz)
 0.110199
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183440.58
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165549
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec

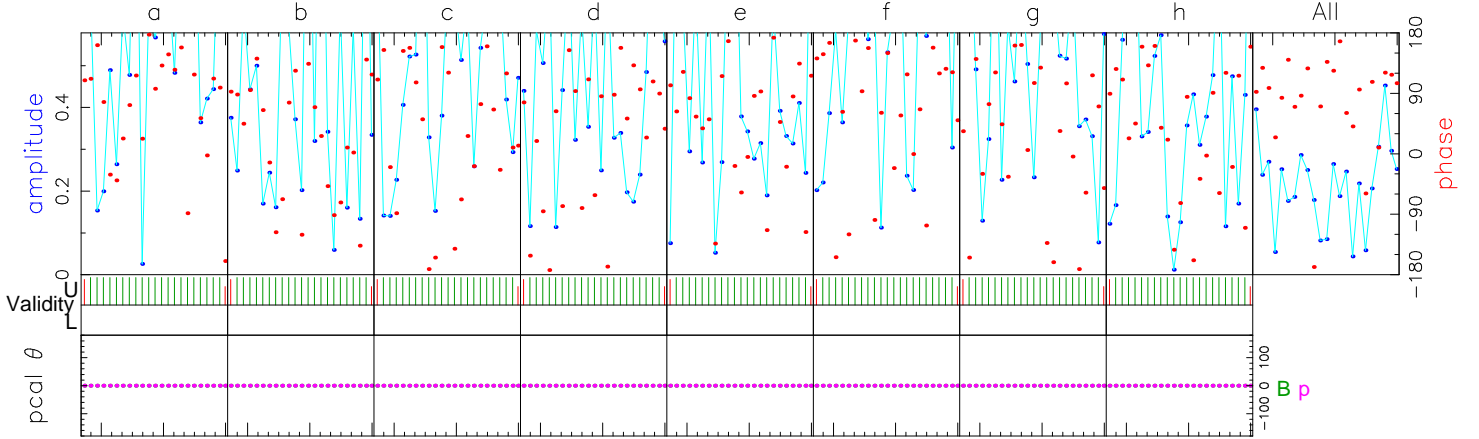


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-139.8	-89.3	-140.8	-98.2	-122.0	-116.3	-168.9	-100.1	Phase	-124.9
	0.3	0.2	0.2	0.2	0.3	0.1	0.2	0.2	Ampl.	0.2
	326.5	233.9	484.1	94.7	160.1	4.7	509.2	187.2	Sbd box	276.1
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.03765077214E+03		Apriori delay (usec)		5.03757347355E+03		Resid mbdelay (usec)		-8.26404E-04	+/- 1.9E-04
Sband delay (usec)	5.03764808955E+03		Apriori clock (usec)		4.9331589E+07		Resid sbdelay (usec)		7.46160E-02	+/- 1.5E-03
Phase delay (usec)	5.03757346952E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		-4.02730E-06	+/- 6.3E-07
Delay rate (us/s)	-1.46874602876E+00		Apriori rate (us/s)		-1.46874730806E+00		Resid rate (us/s)		1.27930E-06	+/- 7.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.17235405842E-05		Resid phase (deg)		-124.9	+/- 19.6

RMS Theor. Amplitude 0.182 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 53.3 47.0 Search (1024X32) 0.176 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 68.3 82.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 29.1 27.7 Inc. seg. avg. 0.176 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.5 48.4 Inc. frq. avg. 0.179 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 269.2 el 56.7 pa 55.8 p: az 62.4 el 35.8 pa -72.8 u, v (fr/asec) 10927.295 518.905 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bp..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bp.W.22.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec

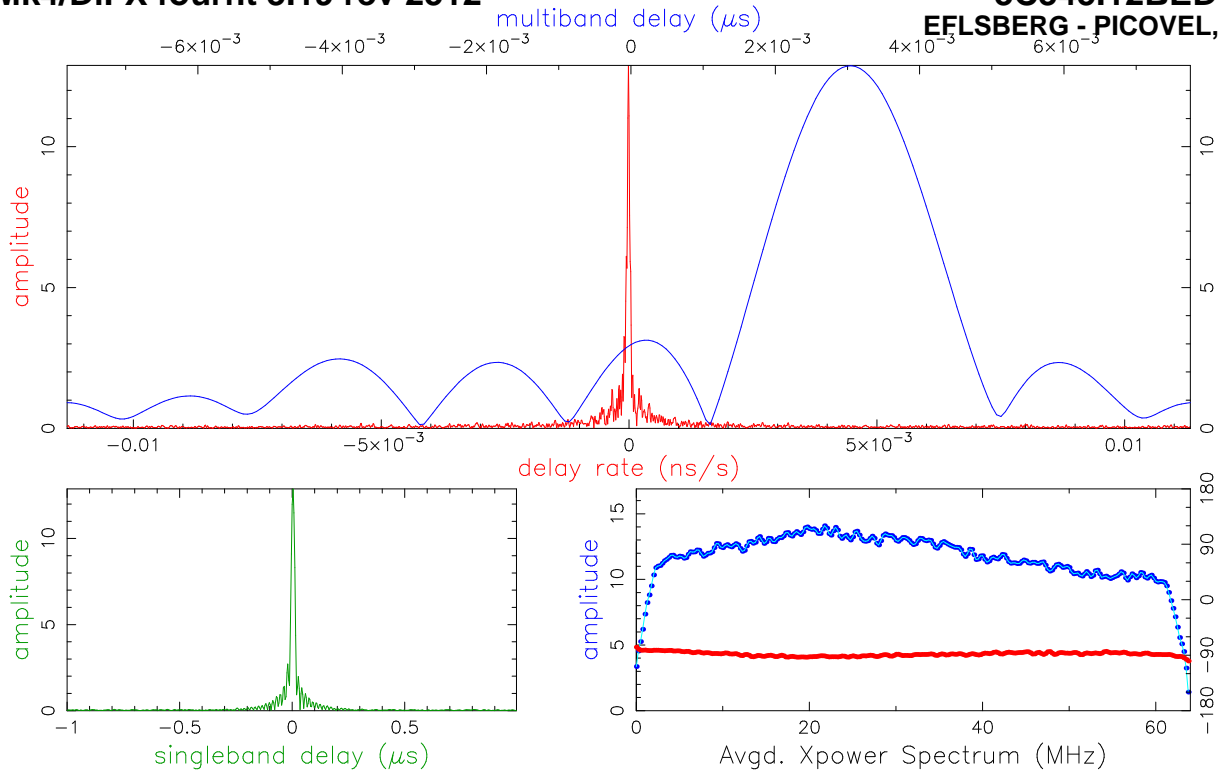


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Amplitude	115.6	75.3	93.4	111.6	78.0	130.4	128.7	69.2	Amplitude	103.2
Phase	0.4	0.2	0.2	0.1	0.2	0.3	0.1	0.1	Phase	103.2
Ampl.	333.5	385.8	384.2	284.3	476.0	222.1	288.7	352.0	Ampl.	0.2
Sbd box	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	Sbd box	334.0
APs used	B 1000	1000	1000	1000	1000	1000	1000	1000	APs used	
PC freqs	p 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
PC phase	B:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Mani PC	B:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
PC amp	B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	p 1000	1000	1000	1000	1000	1000	1000	1000		
Chan ids	B W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Tracks	p W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)		5.03787554972E+03		Apriori delay (usec)	5.03757347355E+03		Resid mbdelay (usec)	5.20118E-03	+/-	2.0E-04
Sband delay (usec)		5.03787414355E+03		Apriori clock (usec)	4.9331589E+00		Resid sbdelay (usec)	3.00670E-01	+/-	1.6E-03
Phase delay (usec)		5.03757347687E+03		Apriori clockrate (us/s)	-4.0388659E-07		Resid phdelay (usec)	3.32844E-06	+/-	6.8E-07
Delay rate (us/s)		-1.46875372717E+00		Apriori rate (us/s)	-1.46874730806E+00		Resid rate (us/s)	-6.41911E-06	+/-	8.5E-09
Total phase (deg)		107.2		Apriori accel (us/s/s)	-1.17235405842E-05		Resid phase (deg)	103.2	+/-	21.1

	RMS	Theor.	Amplitude	0.193 +/- 0.036	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	54.3	50.6	Search (1024X32)	0.166	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	66.9	88.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	26.7	29.9	Inc. seg. avg.	0.178	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	44.2	52.1	Inc. frq. avg.	0.183	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 269.2 el 56.7 pa 55.8 p: az 62.4 el 35.8 pa -72.8 u,v (fr/asec) 10927.295 518.905 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bp..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bp.W.26.12BED8

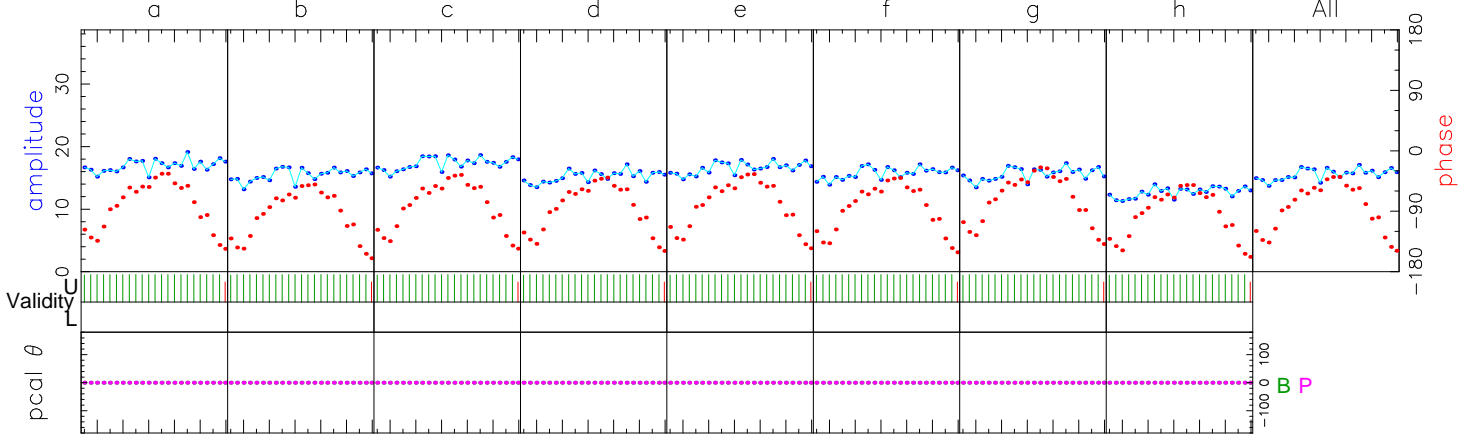


Fringe quality 6

SNR 646.7
Int time 336.738
Amp 12.887
Phase -83.2
PFD 0.0e+00
Delays (us)
SBD 0.003458
MBD 0.003025
Fringe rate (Hz)
-0.000594
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
Exp# 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165553
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

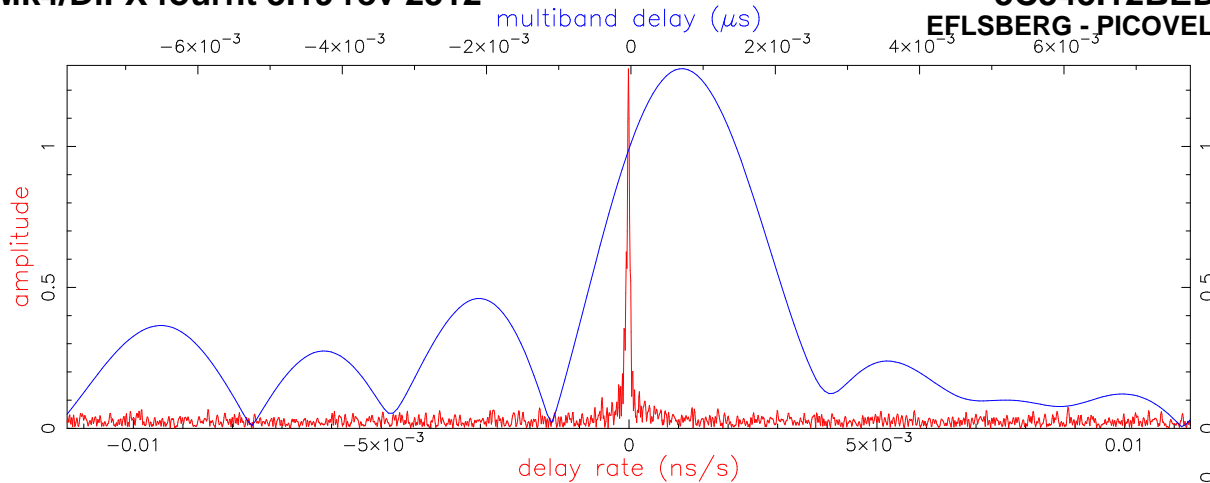
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-80.3	-94.1	-80.8	-84.4	-79.3	-84.8	-70.8	-93.9	Phase	-83.2
	13.9	12.8	14.3	12.6	13.7	13.0	12.8	10.5	Ampl.	13.0
	257.6	257.5	258.0	257.4	258.0	257.9	257.9	256.5	Sbd box	257.9
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.06029688136E+03		Apriori delay (usec)		-1.06029990636E+03		Resid mbdelay (usec)		3.02500E-03	+/- 1.7E-06
Sband delay (usec)	-1.06029644861E+03		Apriori clock (usec)		1.6929031E+01		Resid sbdelay (usec)		3.45775E-03	+/- 1.3E-05
Phase delay (usec)	-1.06029990904E+03		Apriori clockrate (us/s)		1.5299999E-07		Resid phdelay (usec)		-2.68374E-06	+/- 5.7E-09
Delay rate (us/s)	1.22893322588E-02		Apriori rate (us/s)		1.22893391516E-02		Resid rate (us/s)		-6.89285E-09	+/- 2.9E-11
Total phase (deg)			Apriori accel (us/s/s)		1.79330549472E-05		Resid phase (deg)		-83.2	+/- 0.2

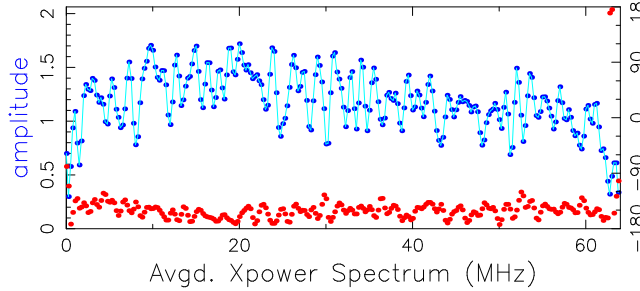
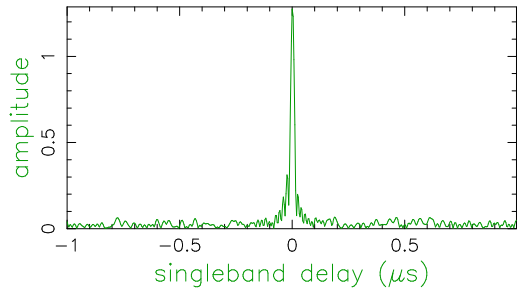
RMS Theor. Amplitude 12.887 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 34.8 0.4 Search (2048X32) 12.526 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 22.0 0.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 8.4 0.3 Inc. seg. avg. 15.588 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 8.5 0.4 Inc. frq. avg. 12.969 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BP.W.41.12BED8



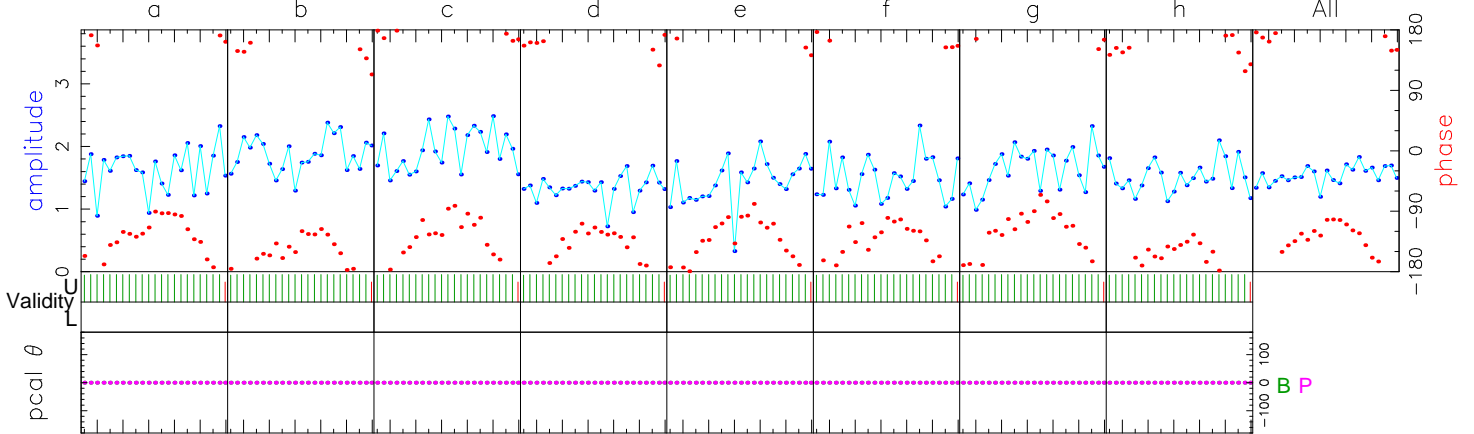
Fringe quality 5

SNR 64.6
Int time 336.738
Amp 1.288
Phase -146.5
PFD 0.0e+00
Delays (us)
SBD 0.001242
MBD 0.000739
Fringe rate (Hz)
-0.000569
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165557
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec

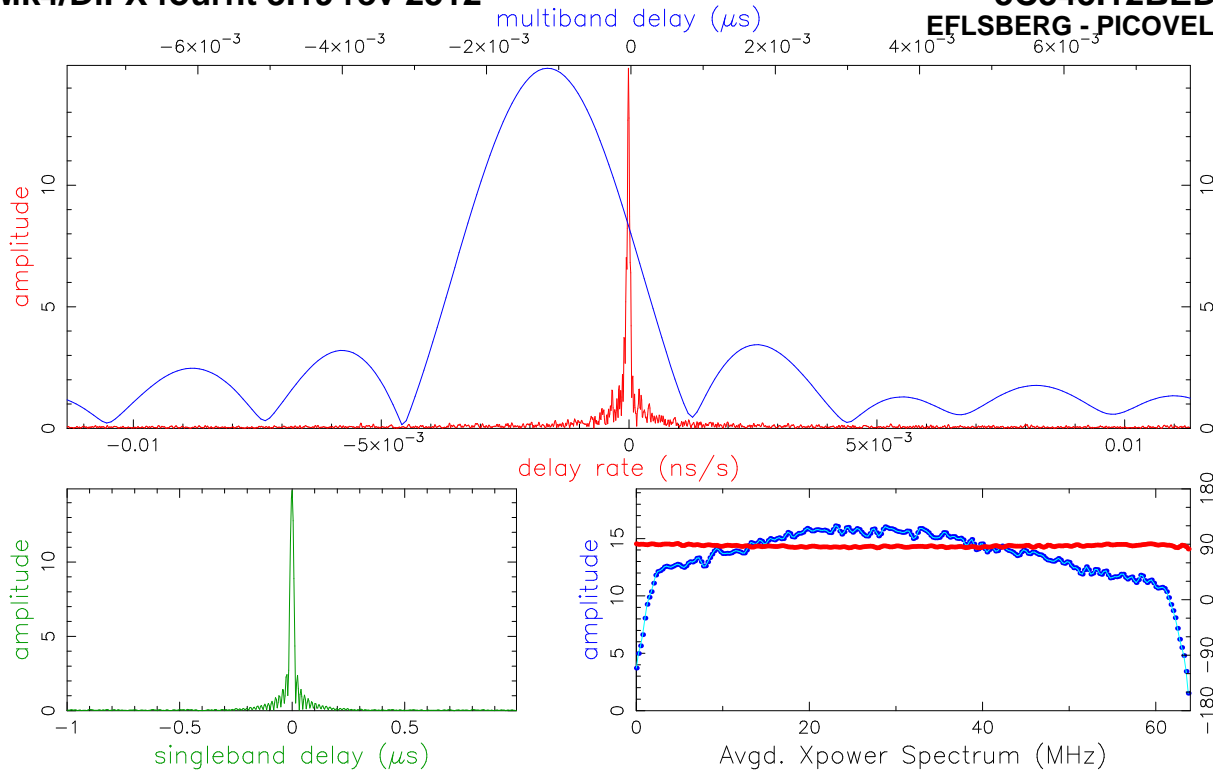


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.06029916739E+03	Apriori delay (usec)	-1.06029990636E+03	Resid mbdelay (usec)	7.38966E-04	+/-	1.7E-05
Sband delay (usec)	-1.06029866461E+03	Apriori clock (usec)	1.6929031E+01	Resid sbdelay (usec)	1.24175E-03	+/-	1.3E-04
Phase delay (usec)	-1.06029991108E+03	Apriori clockrate (us/s)	1.5299999E-07	Resid phdelay (usec)	-4.72376E-06	+/-	5.7E-08
Delay rate (us/s)	1.22893325443E-02	Apriori rate (us/s)	1.22893391516E-02	Resid rate (us/s)	-6.60730E-09	+/-	2.9E-10
Total phase (deg)	-122.6	Apriori accel (us/s/s)	1.79330549472E-05	Resid phase (deg)	-146.5	+/-	1.8

ph/seg (deg)	34.8	Theor.	4.3	Amplitude	1.288 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	22.8		7.4	Search (2048X32)	1.216	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	17.4		2.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	12.8		4.4	Inc. seg. avg.	1.540	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	1.320	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 269.2 el 56.7 pa 55.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BP.W.54.12BED8

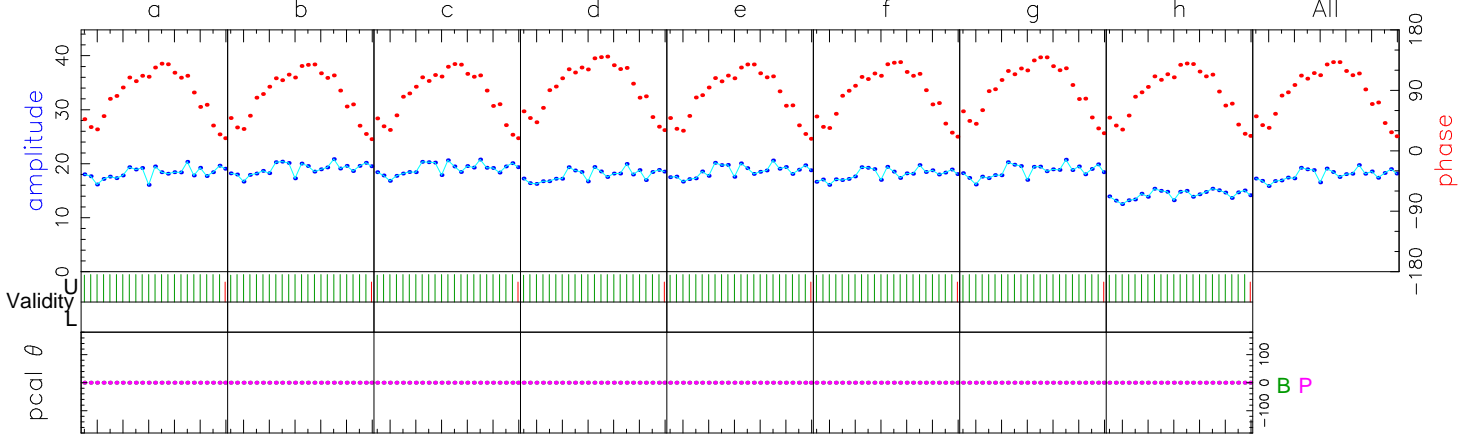


Fringe quality 6

SNR 749.2
Int time 336.738
Amp 14.929
Phase 87.5
PFD 0.0e+00
Delays (us)
SBD -0.001194
MBD -0.001187
Fringe rate (Hz)
-0.000590
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165600
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



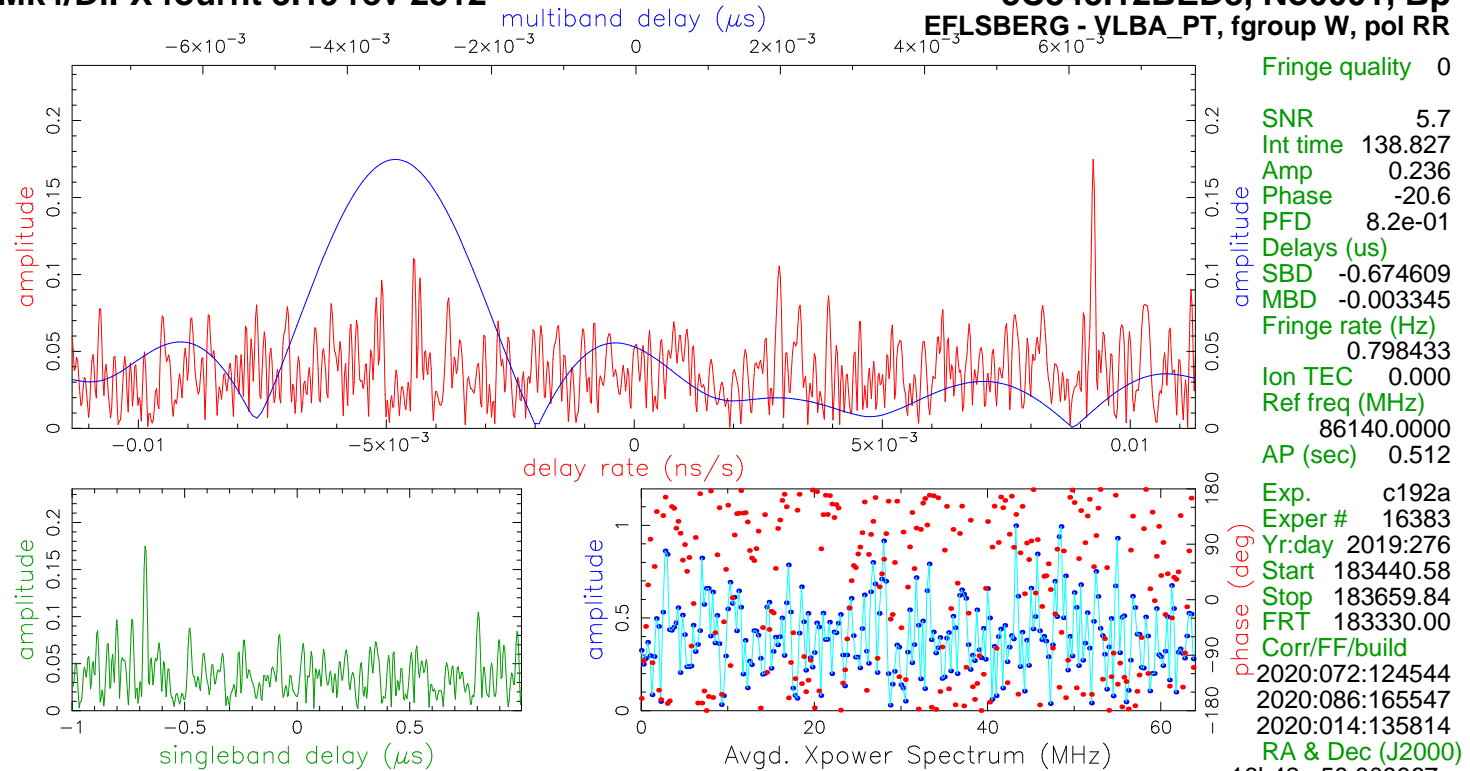
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-1.06030109321E+03								Resid mbdelay (usec)	-1.18685E-03 +/- 1.4E-06
Sband delay (usec)	-1.06030110036E+03								Resid sbdelay (usec)	-1.19400E-03 +/- 1.1E-05
Phase delay (usec)	-1.06029990354E+03								Resid phdelay (usec)	2.82178E-06 +/- 4.9E-09
Delay rate (us/s)	1.22893323077E-02								Resid rate (us/s)	-6.84396E-09 +/- 2.5E-11
Total phase (deg)			-248.7						Resid phase (deg)	87.5 +/- 0.2
	RMS	Theor.	Amplitude	14.929 +/- 0.020					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	34.8	0.4	Search (2048X32)	14.304					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	21.2	0.6	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	5.3	0.2	Inc. seg. avg.	17.937					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	8.0	0.4	Inc. frq. avg.	14.856					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BP.W.70.12BED8

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, Bp
EFLSBERG - VLBA_PT, fgroup W, pol RR



Fringe quality 0

SNR 5.7

Int time 138.827

Amp 0.236

Phase -20.6

PFD 8.2e-01

Delays (us)

SBD -0.674609

MBD -0.003345

Fringe rate (Hz)

0.798433

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183440.58

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:072:124544

2020:086:165547

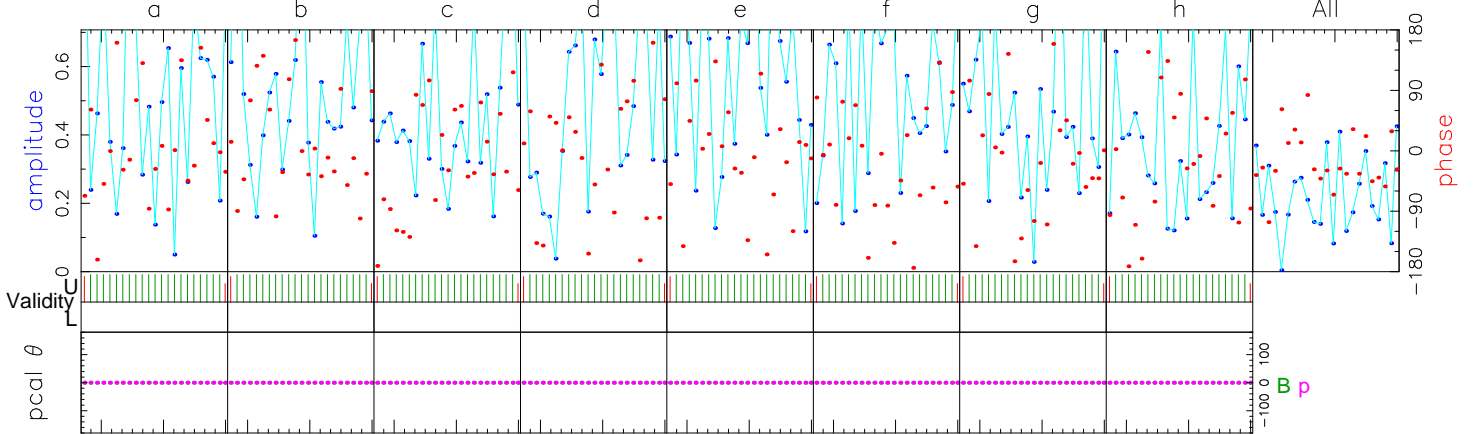
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec

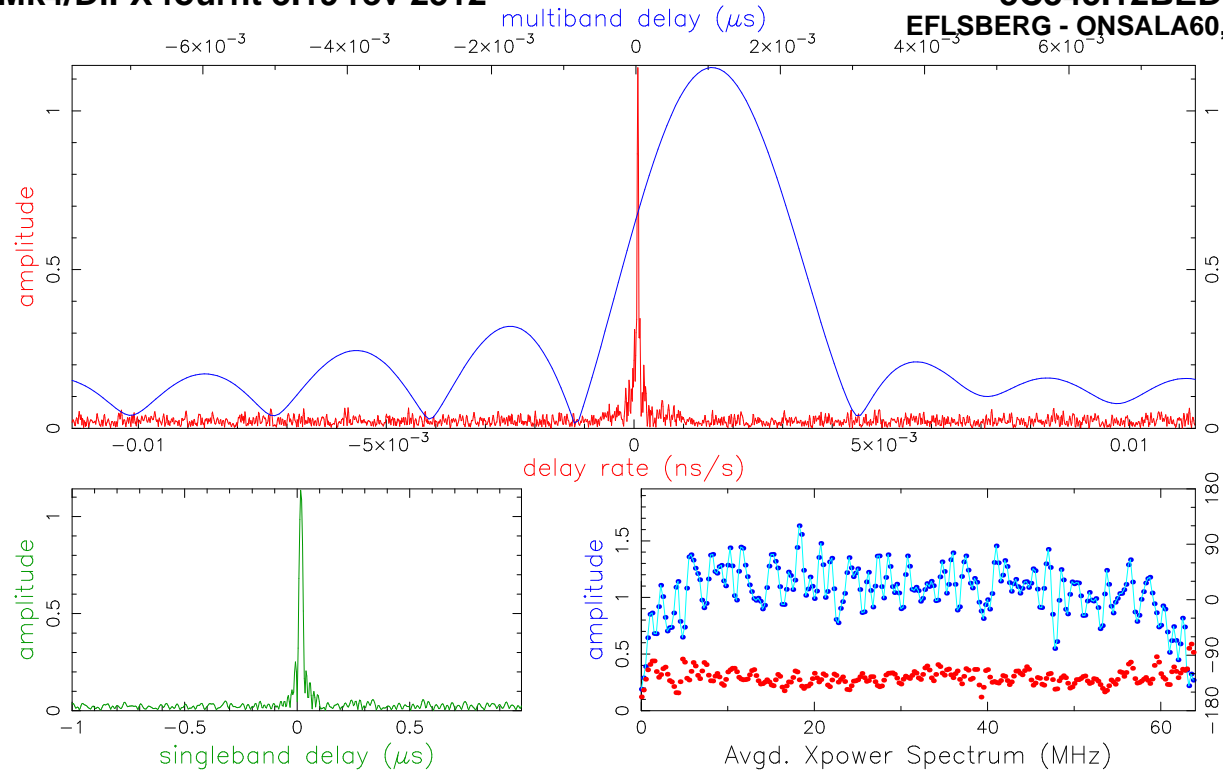


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.0	-29.2	-9.8	-20.6	-15.1	-29.4	-11.2	-31.9	Phase	-20.6
	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.1	Ampl.	0.2
	51.8	216.8	314.8	29.2	135.3	90.6	464.8	150.4	Sbd box	84.3
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.03689825339E+03		Apriori delay (usec)		5.03757347355E+03		Resid mbdelay (usec)		-3.34516E-03	+/- 1.9E-04
Sband delay (usec)	5.03689886480E+03		Apriori clock (usec)		4.9331589E+00		Resid sbdelay (usec)		-6.74609E-01	+/- 1.5E-03
Phase delay (usec)	5.03757347288E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		-6.63111E-07	+/- 6.5E-07
Delay rate (us/s)	-1.46873803904E+00		Apriori rate (us/s)		-1.46874730806E+00		Resid rate (us/s)		9.26902E-06	+/- 8.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.17235405842E-05		Resid phase (deg)		-20.6	+/- 20.2

	RMS	Theor.	Amplitude	0.236 +/- 0.042	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	43.1	48.4	Search (1024X32)	0.168	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	67.5	84.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	9.3	28.5	Inc. seg. avg.	0.219	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	32.0	49.8	Inc. frq. avg.	0.210	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 p: az 62.4 el 35.8 pa -72.8 u,v (fr/asec) 10927.295 518.905 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bp..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bp.W.9.12BED8

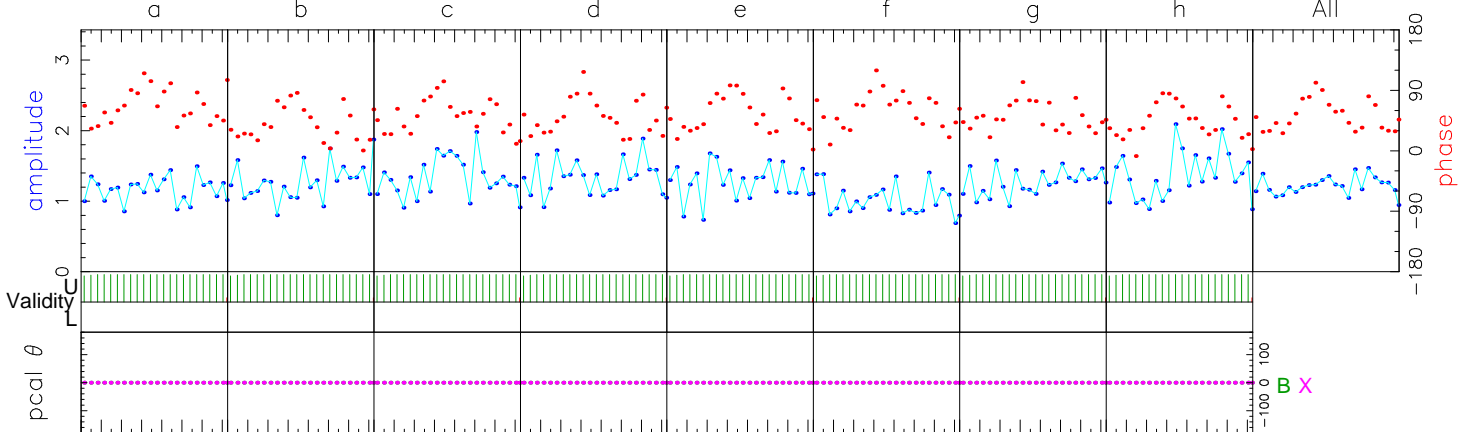


Fringe quality 8

SNR 63.9
Int time 418.306
Amp 1.143
Phase 52.6
PFD 0.0e+00
Delays (us)
SBD 0.016646
MBD 0.001083
Fringe rate (Hz) 0.006716
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165609
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

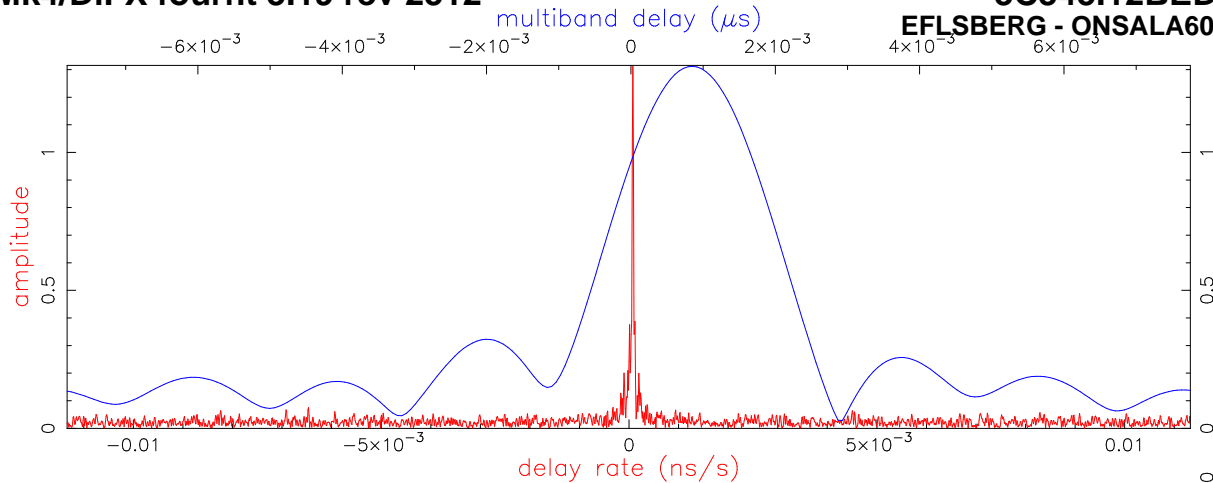


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	67.0	37.5	53.8	52.0	55.7	61.7	50.2	46.4	Phase	52.6
	1.1	1.1	1.2	1.2	1.1	0.9	1.2	1.3	Ampl.	1.1
	260.9	261.0	261.3	261.5	261.1	261.3	261.5	260.9	Sbd box	261.3
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	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	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 7.0270145554E+02 Apriori delay (usec) 7.02684747362E+02 Resid mbdelay (usec) 1.08319E-03 +/- 1.7E-05
 Sband delay (usec) 7.02701393362E+02 Apriori clock (usec) -1.5486191E+01 Resid sbdelay (usec) 1.66460E-02 +/- 1.3E-04
 Phase delay (usec) 7.02684749059E+02 Apriori clockrate (us/s) -7.2800002E-07 Resid phdelay (usec) 1.69740E-06 +/- 5.8E-08
 Delay rate (us/s) -4.67303081421E-02 Apriori rate (us/s) -4.67303861104E-02 Resid rate (us/s) 7.79683E-08 +/- 2.4E-10
 Total phase (deg) 102.2 Apriori accel (us/s/s) -8.91911020584E-06 Resid phase (deg) 52.6 +/- 1.8

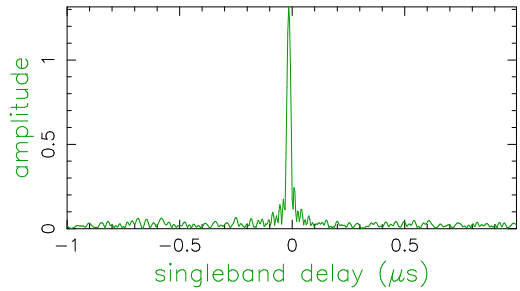
RMS Theor. Amplitude 1.143 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 22.4 4.3 Search (2048X32) 1.131 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 12.7 7.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 9.8 2.5 Inc. seg. avg. 1.227 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 8.8 4.4 Inc. frq. avg. 1.147 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) 331.785 -1068.483 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BX..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BX.W.100.12BED8

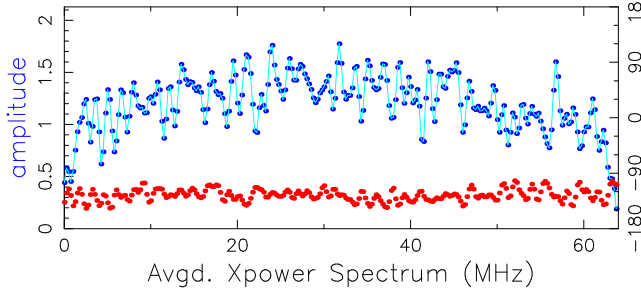


Fringe quality 8

SNR 73.6
Int time 418.306
Amp 1.315
Phase 51.6
PFD 0.0e+00
Delays (us)
SBD -0.014948
MBD 0.000862
Fringe rate (Hz)
0.006722
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

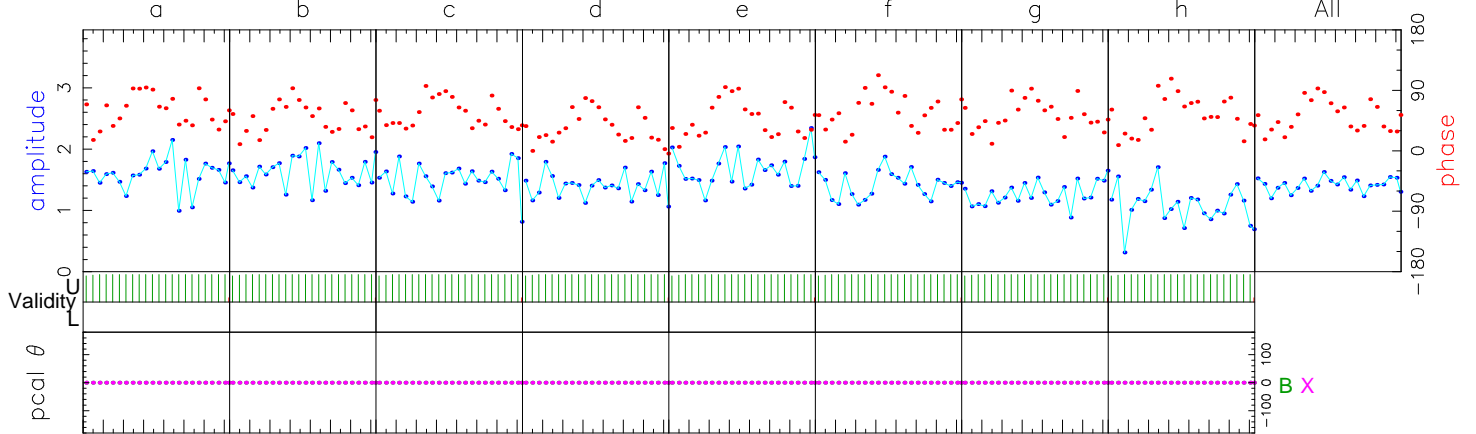


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165613
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

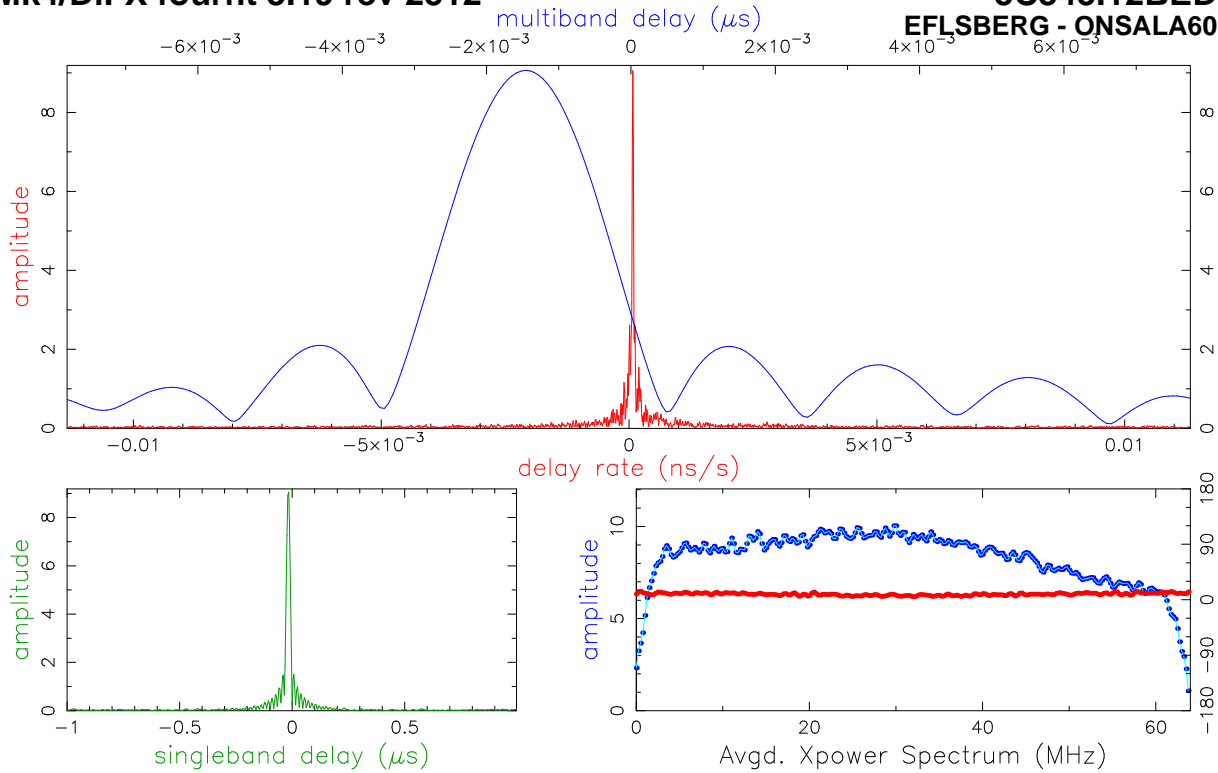


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	61.5	49.4	55.6	34.4	47.4	57.0	53.3	54.9	Phase	51.6
	1.5	1.5	1.4	1.3	1.5	1.3	1.2	1.0	Ampl.	1.3
	253.2	252.9	253.1	253.0	253.5	253.2	253.4	252.8	Sbd box	253.2
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	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	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 7.02669984023E+02 Apriori delay (usec) 7.02684747362E+02 Resid mbdelay (usec) 8.61661E-04 +/- 1.5E-05
 Sband delay (usec) 7.02669799862E+02 Apriori clock (usec) -1.5486191E+01 Resid sbdelay (usec) -1.49475E-02 +/- 1.2E-04
 Phase delay (usec) 7.02684749027E+02 Apriori clockrate (us/s) -7.2800002E-07 Resid phdelay (usec) 1.66528E-06 +/- 5.0E-08
 Delay rate (us/s) -4.67303080783E-02 Apriori rate (us/s) -4.67303861104E-02 Resid rate (us/s) 7.80320E-08 +/- 2.1E-10
 Total phase (deg) 101.2 Apriori accel (us/s/s) -8.91911020584E-06 Resid phase (deg) 51.6 +/- 1.6

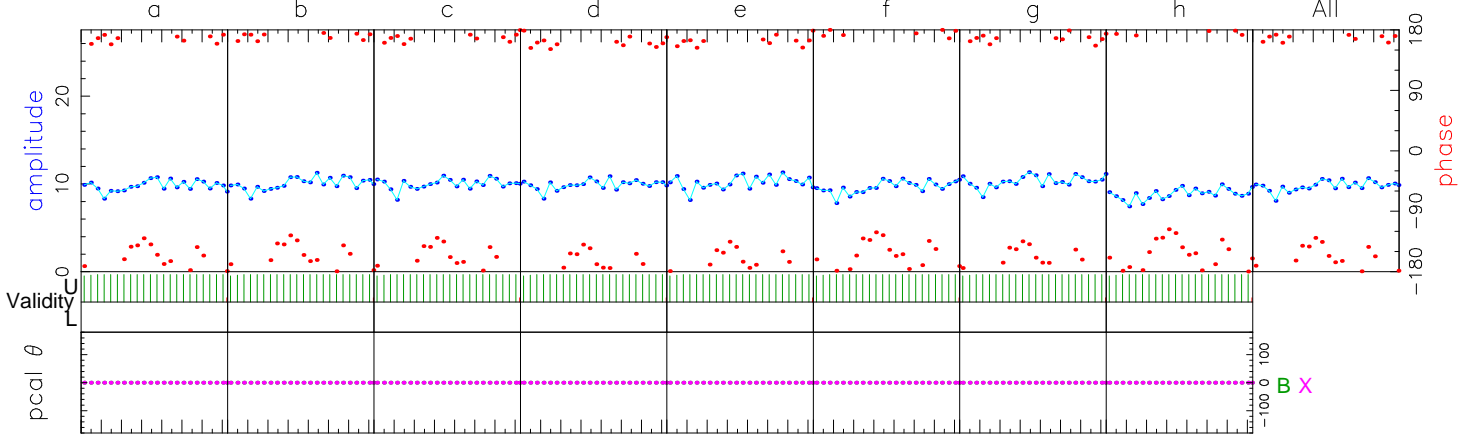
RMS Theor. Amplitude 1.315 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 22.5 3.7 Search (2048X32) 1.297 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 11.5 6.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 8.9 2.2 Inc. seg. avg. 1.418 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 13.5 3.8 Inc. frq. avg. 1.323 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) 331.785 -1068.483 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BX..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BX.W.122.12BED8



Fringe quality 8
 SNR 514.0
 Int time 418.306
 Amp 9.190
 Phase -171.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.017213
 MBD -0.001501
 Fringe rate (Hz) 0.006713
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183000.00
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165559
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-171.8	-168.9	-171.8	178.6	-178.6	-161.8	-173.8	-159.6	Phase	-171.2
	9.1	9.3	9.3	9.2	9.4	8.9	9.6	8.2	Ampl.	9.1
	252.7	252.3	252.7	252.5	252.8	252.6	252.8	252.0	Sbd box	252.6
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	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	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.02667620898E+02		Apriori delay (usec)		7.02684747362E+02		Resid mbdelay (usec)		-1.50146E-03	+/- 2.1E-06
Sband delay (usec)	7.02667534112E+02		Apriori clock (usec)		-1.5486191E+01		Resid sbdelay (usec)		-1.72132E-02	+/- 1.7E-05
Phase delay (usec)	7.02684741840E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-5.52106E-06	+/- 7.2E-09
Delay rate (us/s)	-4.67303081747E-02		Apriori rate (us/s)		-4.67303861104E-02		Resid rate (us/s)		7.79357E-08	+/- 3.0E-11
Total phase (deg)			Apriori accel (us/s/s)		-8.91911020584E-06		Resid phase (deg)		-171.2	+/- 0.2

ph/seg (deg) 22.1 0.5
 amp/seg (%) 8.9 0.9
 ph/frq (deg) 8.1 0.3
 amp/frq (%) 4.5 0.6

RMS Theor. Amplitude 9.190 +/- 0.018
 Search (2048X32) 9.032
 Interp. 0.000
 Inc. seg. avg. 9.776
 Inc. frq. avg. 9.121

Group delay (usec)(sbd) 7.02667620898E+02
 Sband delay (usec) 7.02667534112E+02
 Phase delay (usec) 7.02684741840E+02
 Delay rate (us/s) -4.67303081747E-02
 Total phase (deg) -121.6

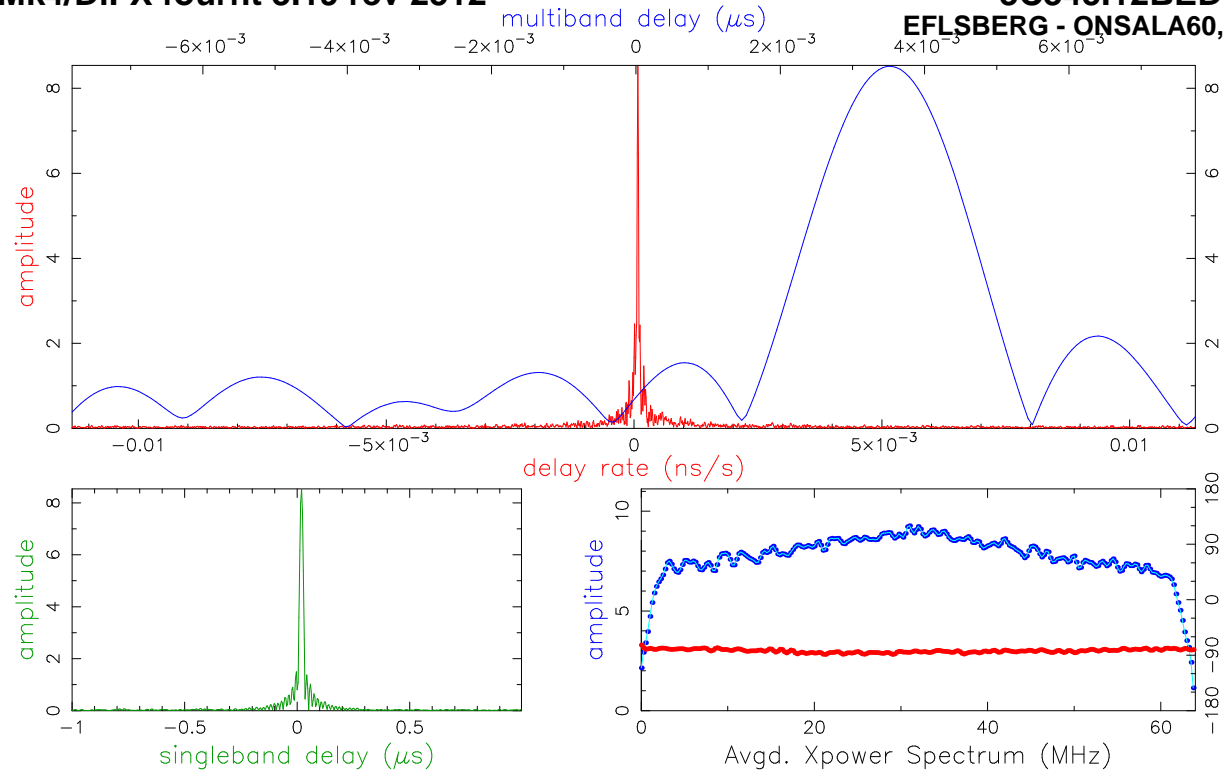
Apriori delay (usec) 7.02684747362E+02
 Apriori clock (usec) -1.5486191E+01
 Apriori clockrate (us/s) -7.2800002E-07
 Apriori rate (us/s) -4.67303861104E-02
 Apriori accel (us/s/s) -8.91911020584E-06

Resid mbdelay (usec) -1.50146E-03
 Resid sbdelay (usec) -1.72132E-02
 Resid phdelay (usec) -5.52106E-06
 Resid rate (us/s) 7.79357E-08
 Resid phase (deg) -171.2

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): 128
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) 331.785 -1068.483 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BX..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BX.W.65.12BED8

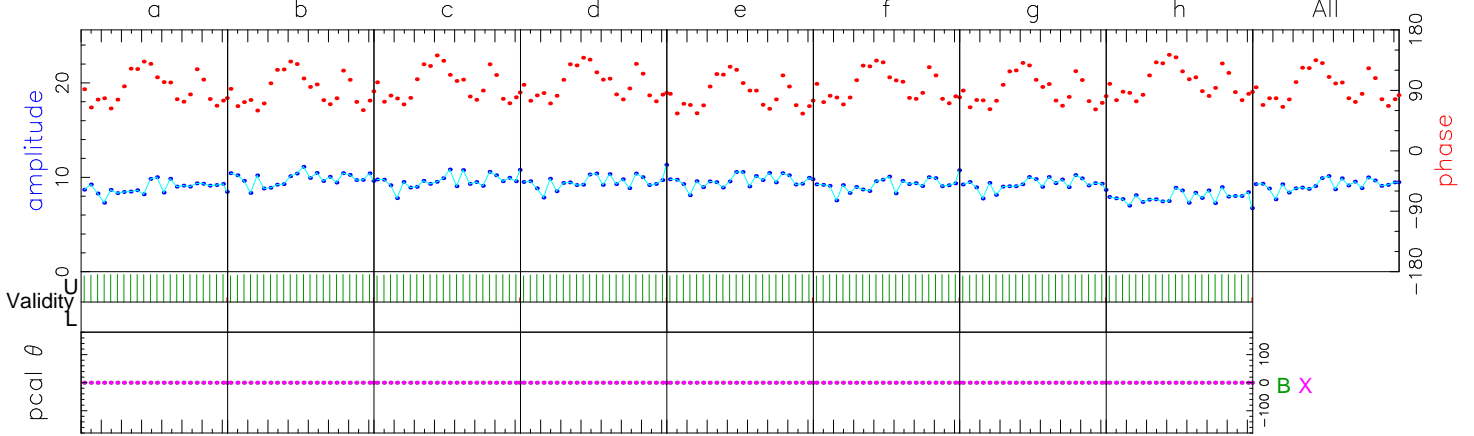


Fringe quality 8

SNR 477.6
Int time 418.306
Amp 8.540
Phase 94.3
PFD 0.0e+00
Delays (us)
SBD 0.018897
MBD 0.003497
Fringe rate (Hz) 0.006714
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
2020:072:124544
2020:086:165603
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	92.8	90.9	98.3	100.0	84.4	96.9	90.6	102.4	Phase	94.3
	8.3	9.1	8.8	8.8	8.9	8.5	8.6	7.4	Ampl.	8.6
	261.5	261.8	262.1	261.7	261.8	262.1	262.2	261.3	Sbd box	261.8
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	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	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.02703869523E+02		Apriori delay (usec)		7.02684747362E+02		Resid mbdelay (usec)		3.49716E-03	+/- 2.3E-06
Sband delay (usec)	7.02703644862E+02		Apriori clock (usec)		-1.5486191E+01		Resid sbdelay (usec)		1.88975E-02	+/- 1.8E-05
Phase delay (usec)	7.02684750404E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		3.04243E-06	+/- 7.7E-09
Delay rate (us/s)	-4.67303081648E-02		Apriori rate (us/s)		-4.67303861104E-02		Resid rate (us/s)		7.79456E-08	+/- 3.2E-11
Total phase (deg)	143.9		Apriori accel (us/s/s)		-8.91911020584E-06		Resid phase (deg)		94.3	+/- 0.2

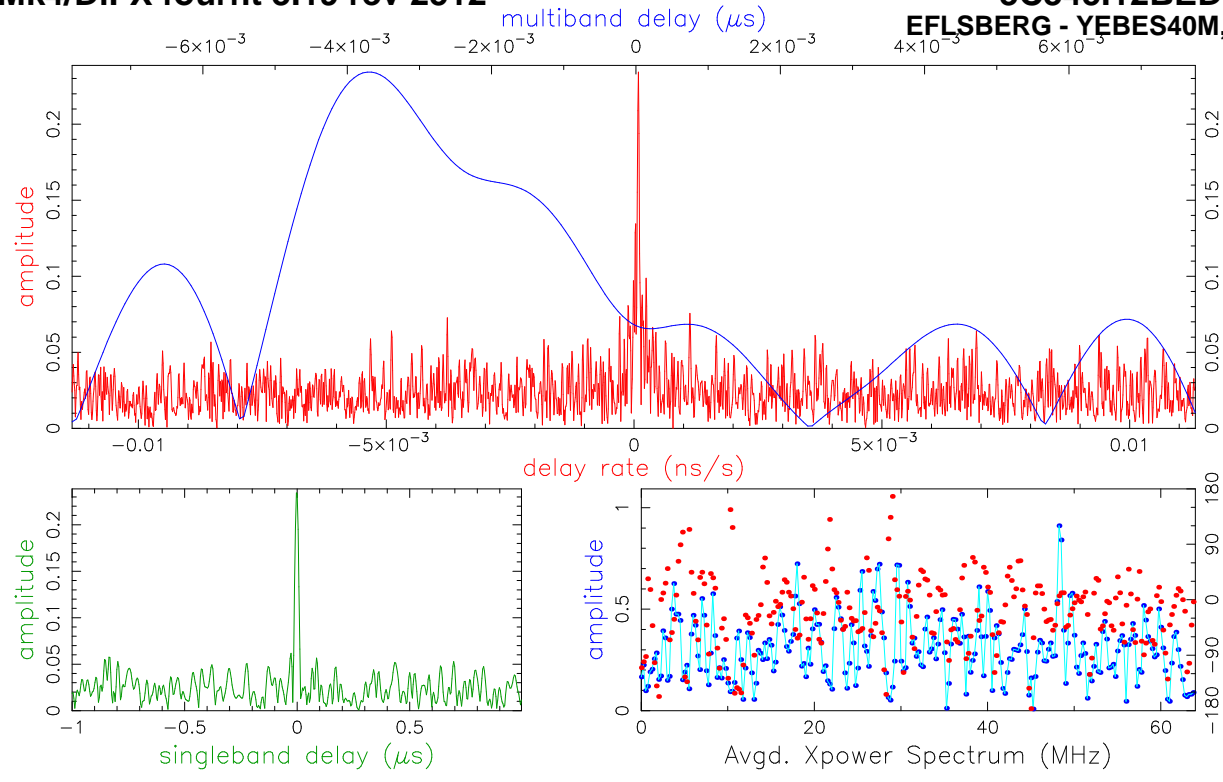
ph/seg (deg) 21.9 0.6
amp/seg (%) 9.9 1.0
ph/frq (deg) 6.4 0.3
amp/frq (%) 6.0 0.6

RMS Theor. Amplitude 8.540 +/- 0.018
Search (2048X32) 8.469
Interp. 0.000
Inc. seg. avg. 9.182
Inc. frq. avg. 8.559

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): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) 331.785 -1068.483 simultaneous interpolator

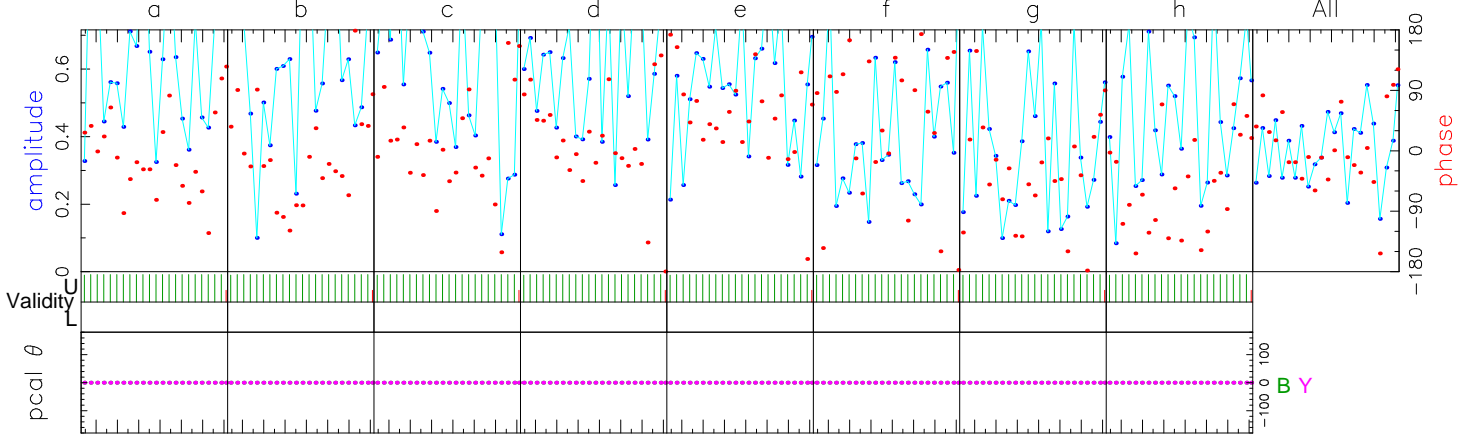


Fringe quality 9

SNR 13.1
Int time 401.317
Amp 0.239
Phase 5.2
PFD 2.6e-30
Delays (us)
SBD -0.002070
MBD -0.003664
Fringe rate (Hz) 0.008107
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165613
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

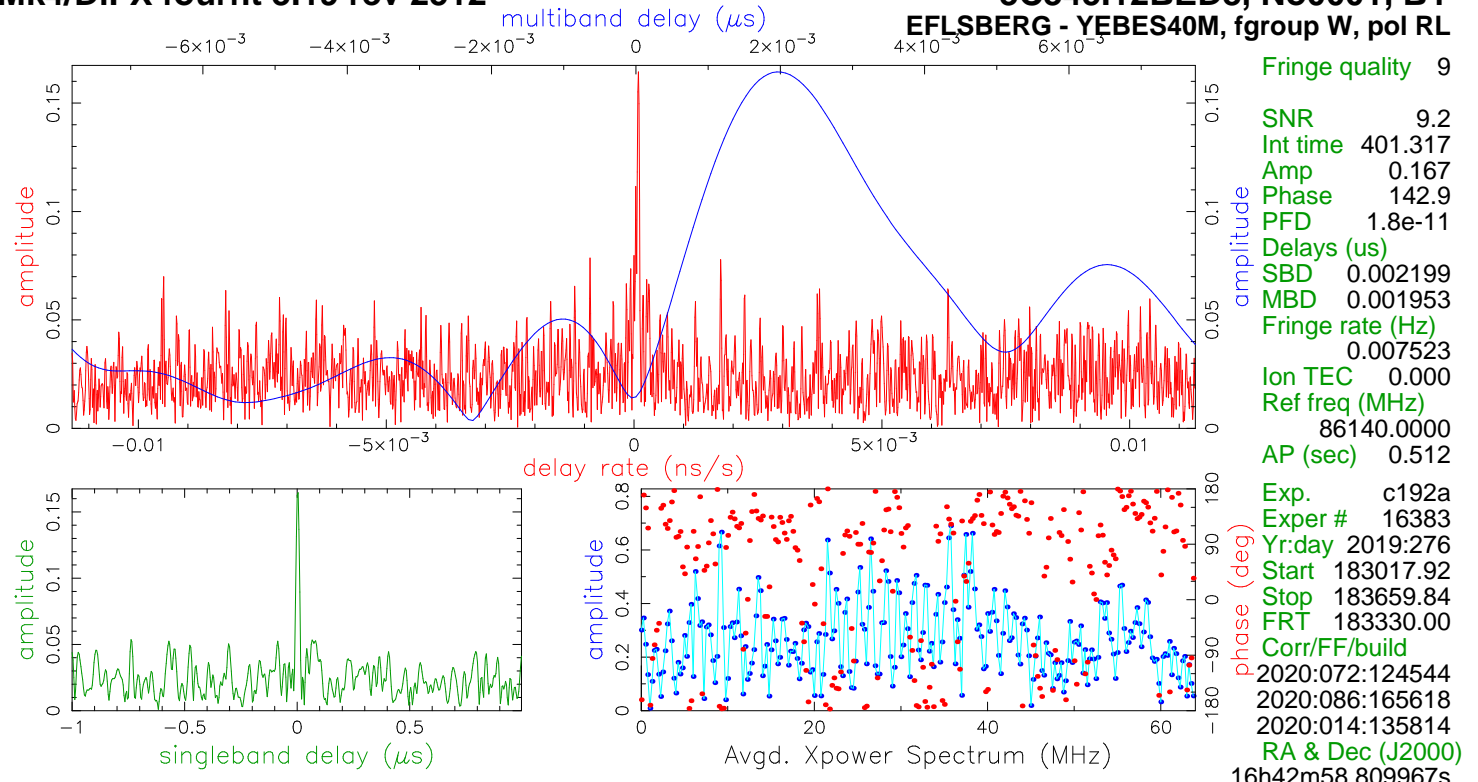
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



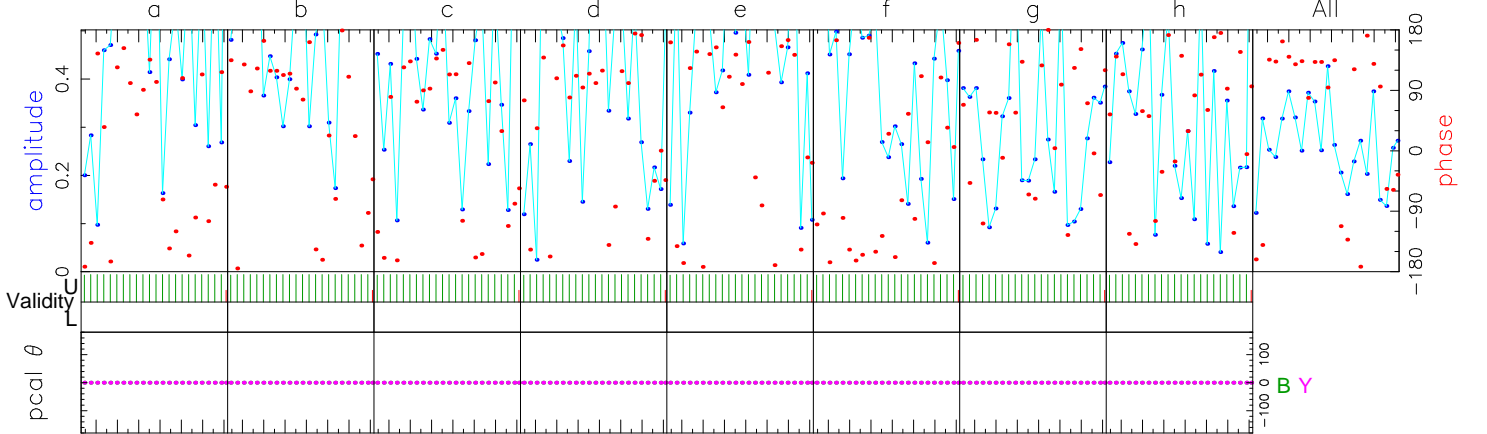
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		256.5
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.16629996861E+03									
Sband delay (usec)	-1.16629837389E+03									
Phase delay (usec)	-1.16629630422E+03									
Delay rate (us/s)	-1.05711730211E-02									
Total phase (deg)			-232.3							
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): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

B: az 269.2 el 56.7 pa 55.8 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 106.525 1816.010 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BY.W.119.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



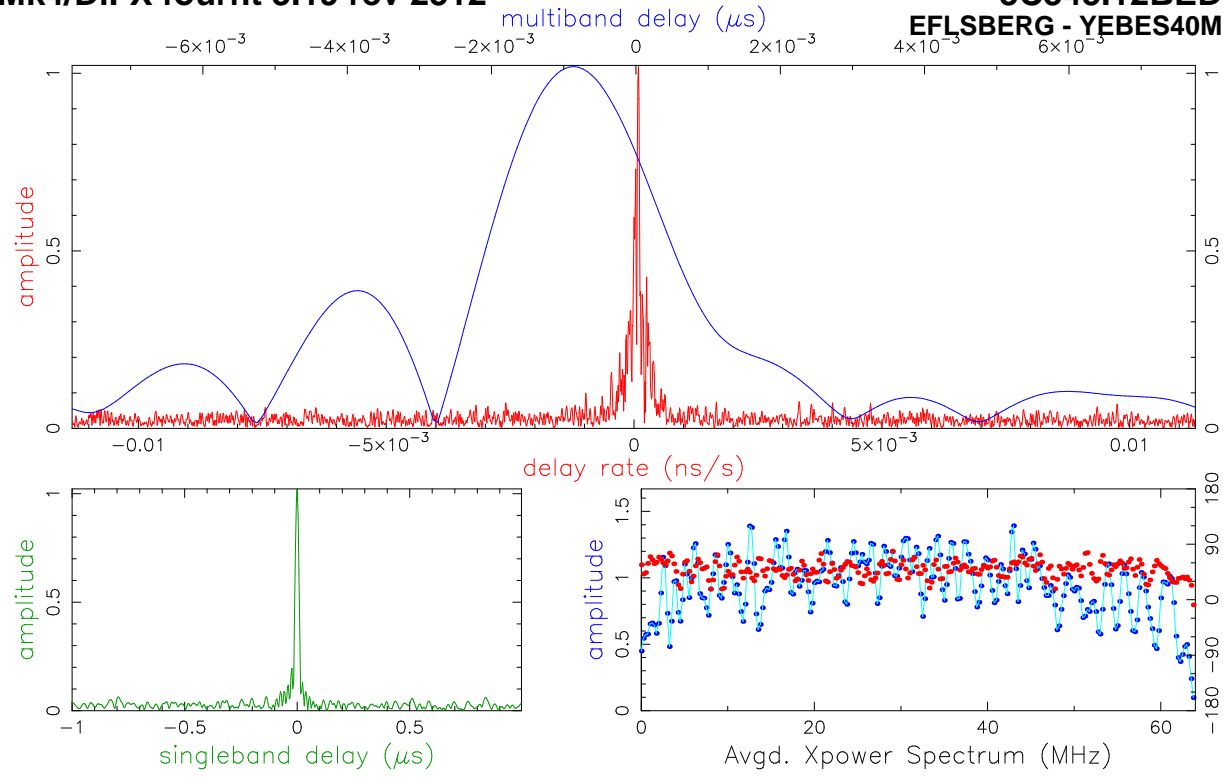
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	139.2	135.4	136.3	135.3	153.5	-148.8	82.3	106.9	Phase	142.9
	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	Ampl.	0.2
	199.9	256.8	256.9	257.7	257.9	257.3	212.6	390.0	Sbd box	257.6
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	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	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.16629435183E+03	Apriori delay (usec)	-1.16629630439E+03	Resid mbdelay (usec)	1.95255E-03	+/-	1.2E-04
Sband delay (usec)	-1.16629410514E+03	Apriori clock (usec)	7.1870832E+00	Resid sbdelay (usec)	2.19925E-03	+/-	9.4E-04
Phase delay (usec)	-1.16629629978E+03	Apriori clockrate (us/s)	-4.2000000E-07	Resid phdelay (usec)	4.60748E-06	+/-	4.0E-07
Delay rate (us/s)	-1.05711798013E-02	Apriori rate (us/s)	-1.05712671409E-02	Resid rate (us/s)	8.73396E-08	+/-	1.7E-09
Total phase (deg)	-94.6	Apriori accel (us/s/s)	1.50620676164E-05	Resid phase (deg)	142.9	+/-	12.5

ph/seg (deg)	68.5	RMS	30.0	Theor.	0.167 +/- 0.018	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	76.5	Search (2048X32)	0.164	Amplitude	0.167 +/- 0.018	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	40.7	Interp.	0.000	Search (2048X32)	0.164	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	37.1	Inc. seg. avg.	0.234	Interp.	0.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.182	Inc. seg. avg.	0.234	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

B: az 269.2 el 56.7 pa 55.8 Y: az 280.2 el 62.9 pa 76.6 u, v (fr/asec) 106.525 1816.010 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BY.W.139.12BED8

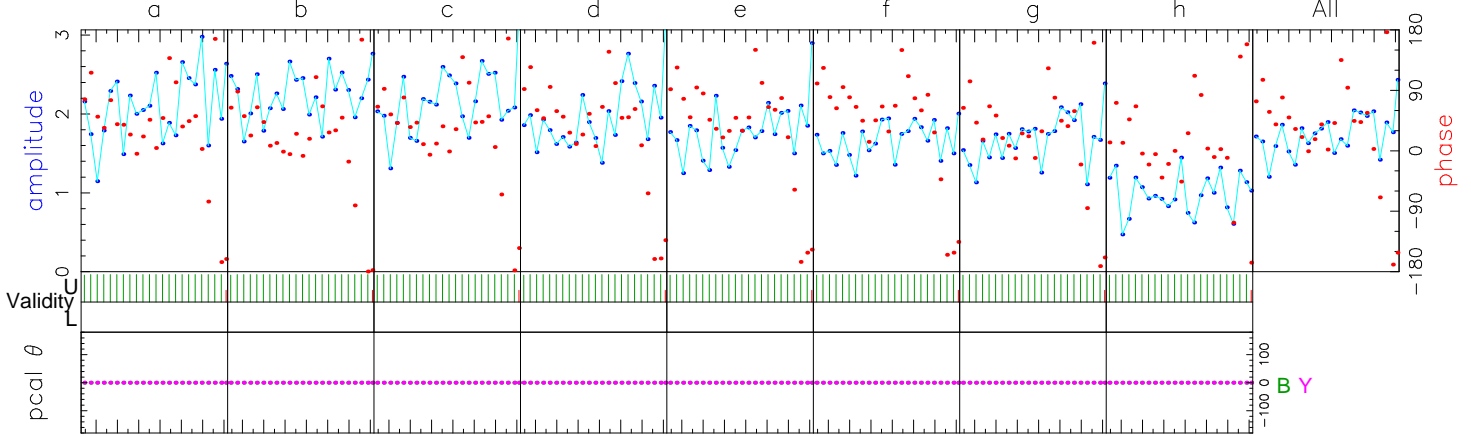


Fringe quality 3

SNR 56.0
Int time 401.317
Amp 1.022
Phase 50.3
PFD 0.0e+00
Delays (us)
SBD -0.000803
MBD -0.000890
Fringe rate (Hz) 0.007855
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165604
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec

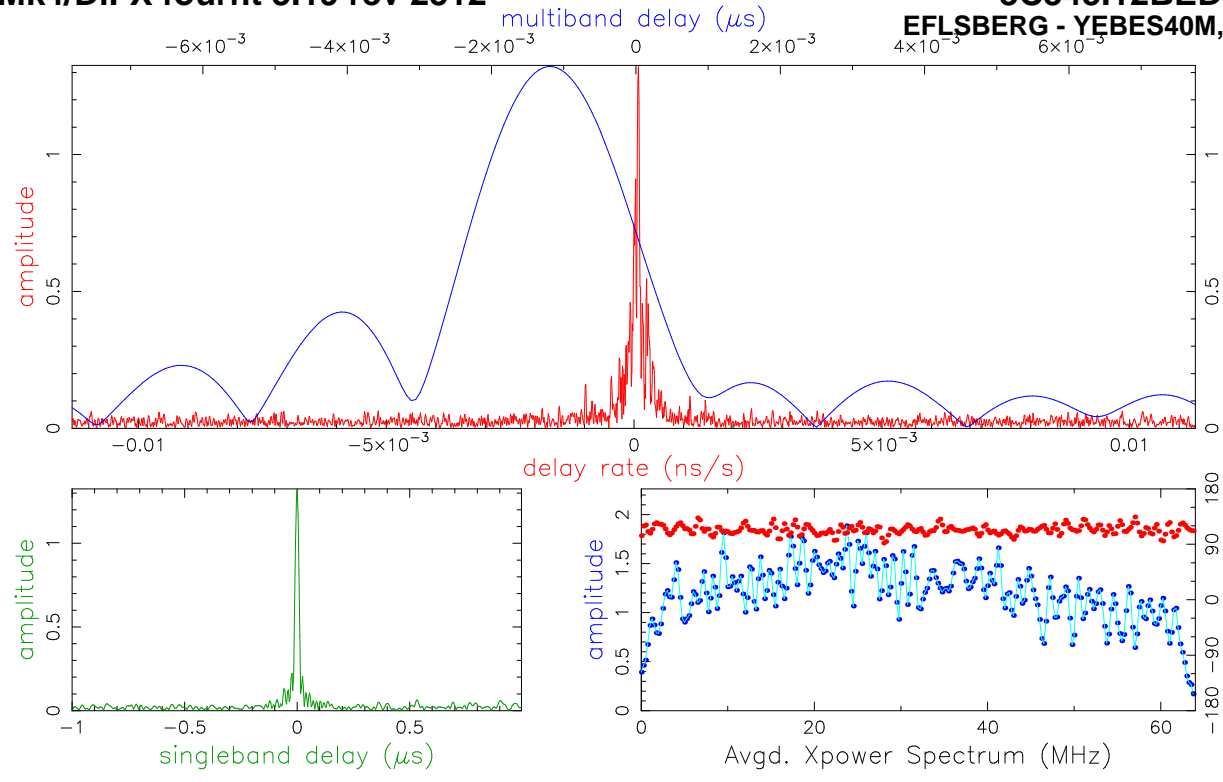


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) -1.16629719461E+03 Apriori delay (usec) -1.16629630439E+03 Resid mbdelay (usec) -8.90229E-04 +/- 1.9E-05
 Sband delay (usec) -1.16629710714E+03 Apriori clock (usec) 7.1870832E+00 Resid sbdelay (usec) -8.02750E-04 +/- 1.5E-04
 Phase delay (usec) -1.16629630276E+03 Apriori clockrate (us/s) -4.2000000E-07 Resid phdelay (usec) 1.62348E-04 +/- 6.6E-08
 Delay rate (us/s) -1.05711759510E-02 Apriori rate (us/s) -1.05712671409E-02 Resid rate (us/s) 9.11899E-08 +/- 2.8E-10
 Total phase (deg) -187.2 Apriori accel (us/s/s) 1.50620676164E-05 Resid phase (deg) 50.3 +/- 2.0

RMS Theor. Amplitude 1.022 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 61.3 4.9 Search (2048X32) 1.012 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.1 8.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 21.2 2.9 Inc. seg. avg. 1.724 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 23.7 5.1 Inc. frq. avg. 1.059 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 106.525 1816.010 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BY.W.85.12BED8

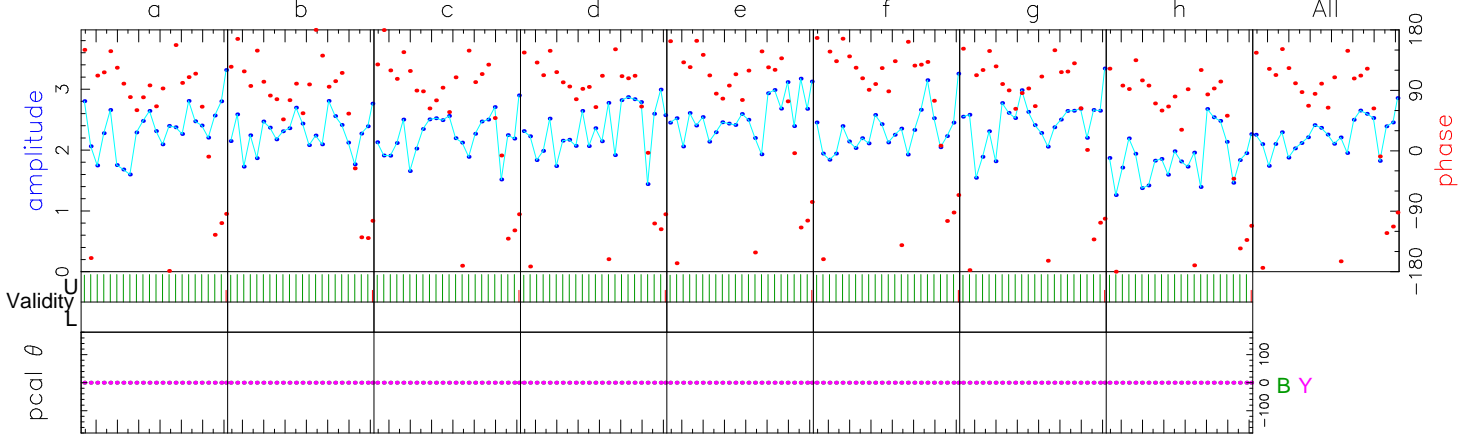


Fringe quality 4

SNR 72.6
Int time 401.317
Amp 1.326
Phase 118.7
PFD 0.0e+00
Delays (us)
SBD -0.000768
MBD -0.001211
Fringe rate (Hz) 0.007983
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165608
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

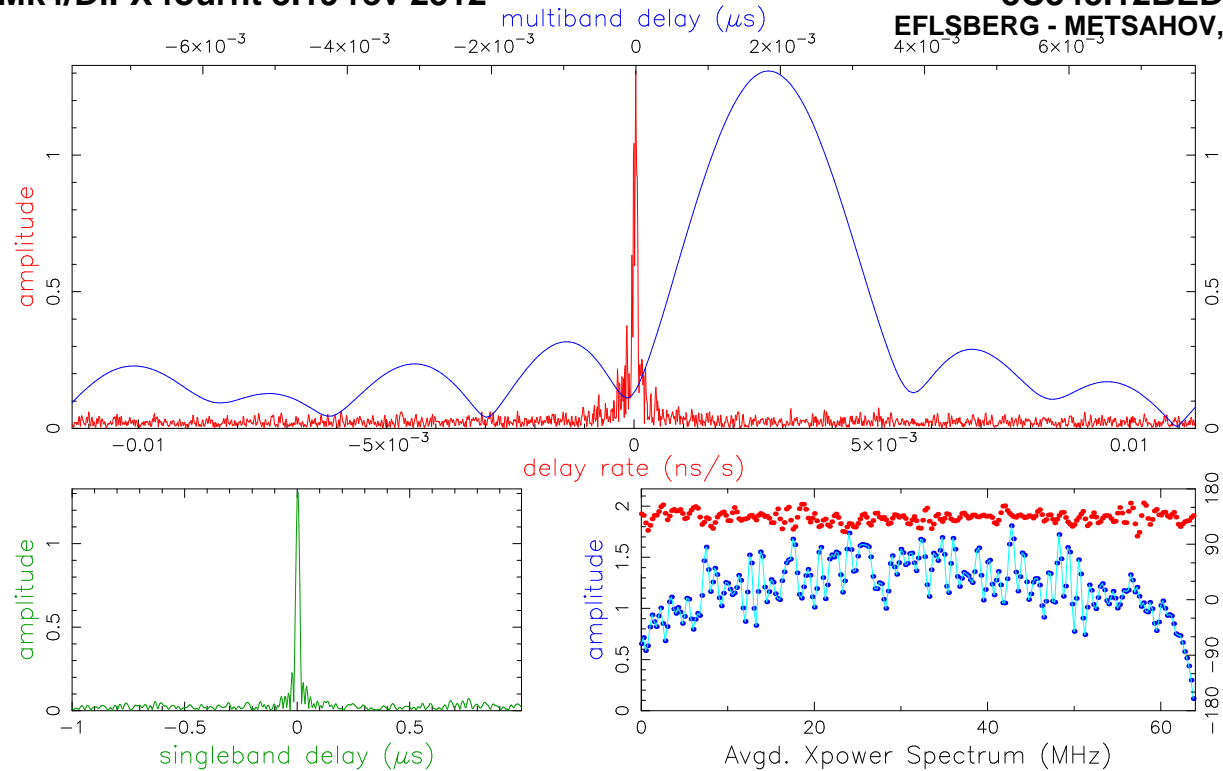
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	117.9	108.0	112.1	121.4	130.1	137.2	119.5	99.6	Phase	118.7
B	1.3	1.4	1.3	1.4	1.5	1.4	1.4	1.1	Ampl.	1.3
Y	256.9	256.3	257.1	256.7	256.9	256.6	256.9	255.3	Sbd box	256.8
B	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	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	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.16629751536E+03								Resid mbdelay (usec)	-1.21098E-03 +/- 1.5E-05
Sband delay (usec)	-1.16629707189E+03								Resid sbdelay (usec)	-7.67500E-04 +/- 1.2E-04
Phase delay (usec)	-1.16629630056E+03								Resid phdelay (usec)	3.82809E-06 +/- 5.1E-08
Delay rate (us/s)	-1.05711744665E-02								Resid rate (us/s)	9.26744E-08 +/- 2.2E-10
Total phase (deg)			-118.8						Resid phase (deg)	118.7 +/- 1.6
	RMS	Theor.	Amplitude	1.326 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	60.2	3.8	Search (2048X32)	1.284					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.4	6.6	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	12.9	2.2	Inc. seg. avg.	2.232					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	7.6	3.9	Inc. frq. avg.	1.345					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

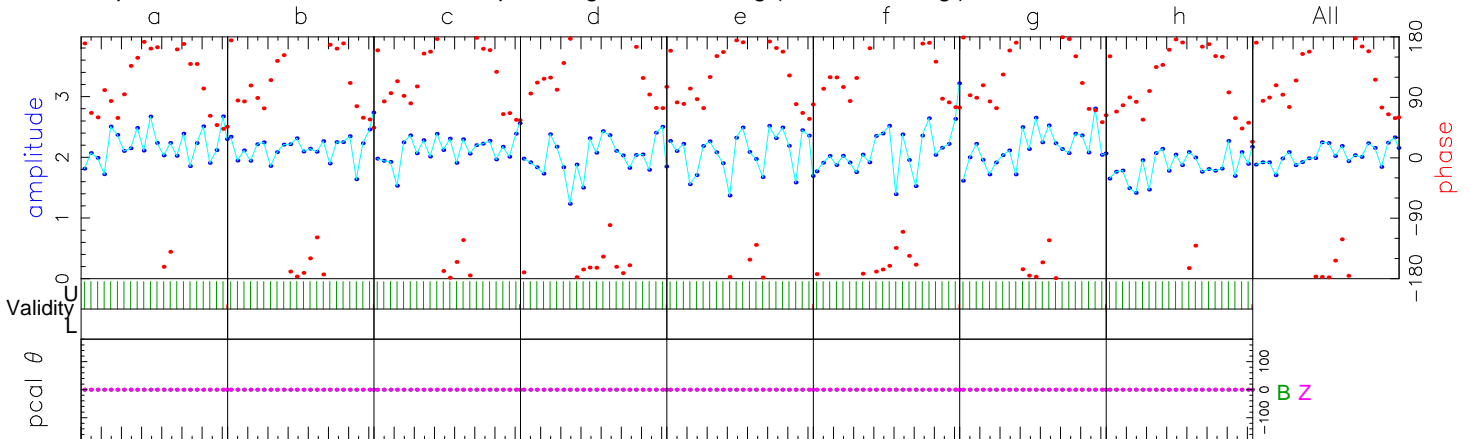
B: az 269.2 el 56.7 pa 55.8 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 106.525 1816.010 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BY.W.98.12BED8



Fringe quality 4
SNR 74.4
Int time 419.362
Amp 1.328
Phase 138.4
PFD 0.0e+00
Delays (us)
SBD 0.002234
MBD 0.001797
Fringe rate (Hz) 0.003025
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165610
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

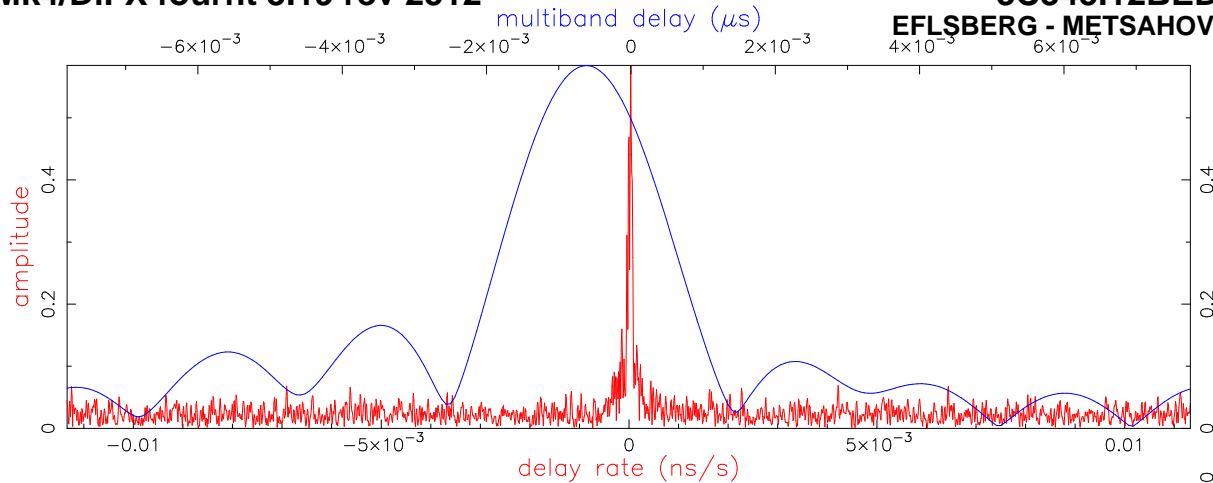


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 2.31190299598E+03 Apriori delay (usec) 2.31190119911E+03 Resid mbdelay (usec) 1.79687E-03 +/- 1.5E-05
 Sband delay (usec) 2.31190343311E+03 Apriori clock (usec) 1.6656853E+01 Resid sbdelay (usec) 2.23400E-03 +/- 1.2E-04
 Phase delay (usec) 2.31190120358E+03 Apriori clockrate (us/s) -2.1629280E-07 Resid phdelay (usec) 4.46437E-06 +/- 5.0E-08
 Delay rate (us/s) -1.73964935323E-02 Apriori rate (us/s) -1.73965286540E-02 Resid rate (us/s) 3.51218E-08 +/- 2.0E-10
 Total phase (deg) 243.4 Apriori accel (us/s/s) -1.91529033202E-05 Resid phase (deg) 138.4 +/- 1.5

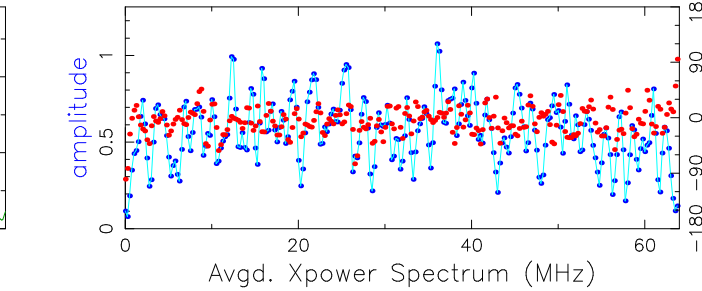
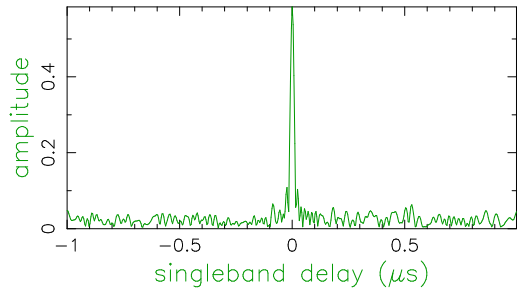
RMS Theor. Amplitude 1.328 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.8 3.7 Search (2048X32) 1.290 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 54.4 6.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 12.5 2.2 Inc. seg. avg. 2.030 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 5.7 3.8 Inc. frq. avg. 1.329 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) 95.277 -1909.224 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BZ..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BZ.W.107.12BED8



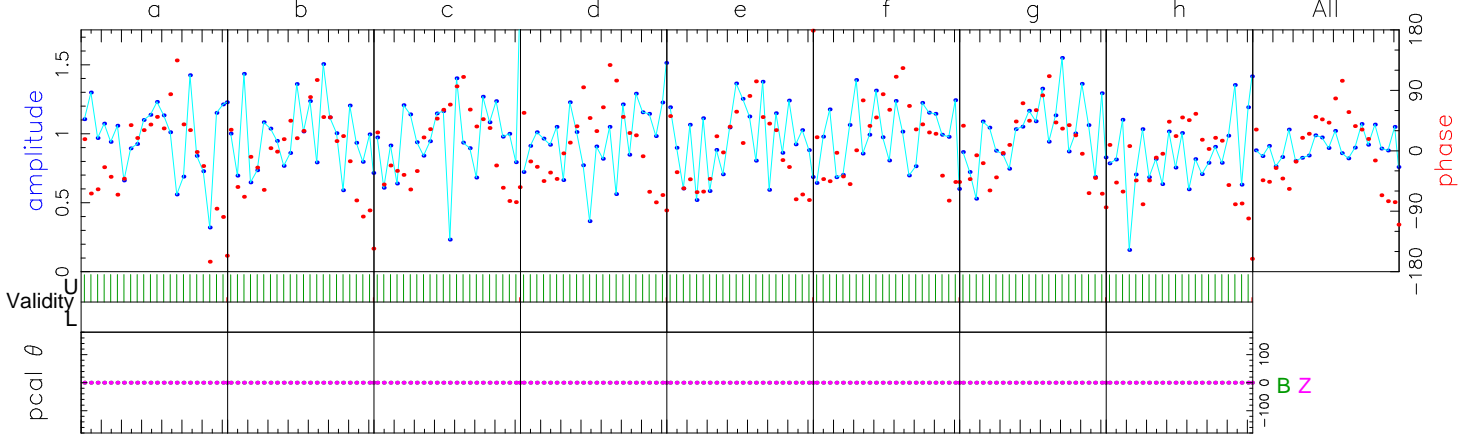
Fringe quality 6

SNR 32.7
Int time 419.362
Amp 0.584
Phase 3.5
PFD 0.0e+00
Delays (us)
SBD 0.000182
MBD -0.000614
Fringe rate (Hz)
0.003051
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165614
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



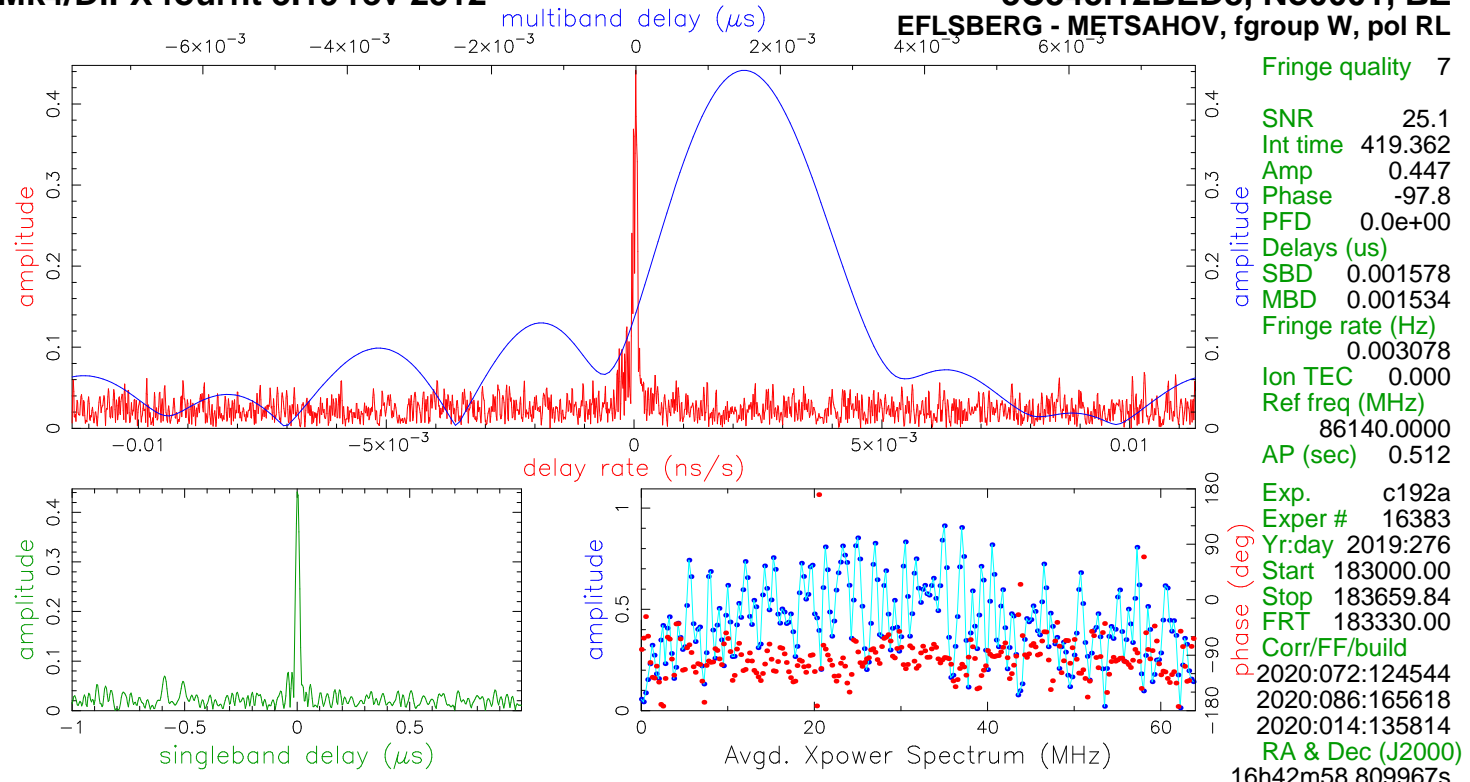
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-2.9	2.0	8.0	3.6	1.3	17.0	14.0	-19.5		Phase 3.5
	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.5		Ampl. 0.6
	257.0	257.1	257.4	256.9	257.0	257.1	256.6	256.5		Sbd box 257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used
B	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	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		PC phase
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
B	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec)(sbd)	2.31190058545E+03	Apriori delay (usec)	2.31190119911E+03	Resid mbdelay (usec)	-6.13659E-04	+/-	3.3E-05
Sband delay (usec)	2.31190138136E+03	Apriori clock (usec)	1.6656853E+01	Resid sbdelay (usec)	1.82250E-04	+/-	2.6E-04
Phase delay (usec)	2.31190119922E+03	Apriori clockrate (us/s)	-2.1629280E-07	Resid phdelay (usec)	1.12648E-07	+/-	1.1E-07
Delay rate (us/s)	-1.73964932340E-02	Apriori rate (us/s)	-1.73965286540E-02	Resid rate (us/s)	3.54201E-08	+/-	4.7E-10
Total phase (deg)	108.4	Apriori accel (us/s/s)	-1.91529033202E-05	Resid phase (deg)	3.5	+/-	3.5

ph/seg (deg)	51.7	RMS	8.4	Theor.	5.74	Amplitude	0.584 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	58.0		14.7		0.574	Search (2048X32)	0.574	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	12.2		5.0		0.901	Interp.	0.901	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	6.9		8.6		0.592	Inc. seg. avg.	0.901	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	0.592	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 269.2 el 56.7 pa 55.8 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) 95.277 -1909.224 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BZ..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BZ.W.124.12BED8



Fringe quality 7

SNR 25.1

Int time 419.362

Amp 0.447

Phase -97.8

PFD 0.0e+00

Delays (us)

SBD 0.001578

MBD 0.001534

Fringe rate (Hz) 0.003078

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183000.00

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:072:124544

2020:086:165618

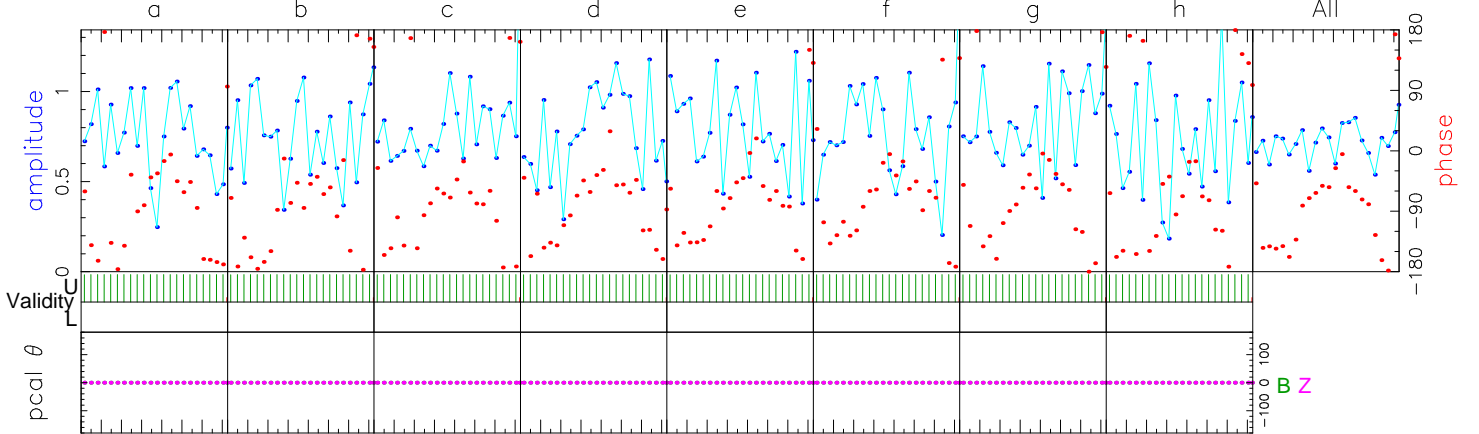
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

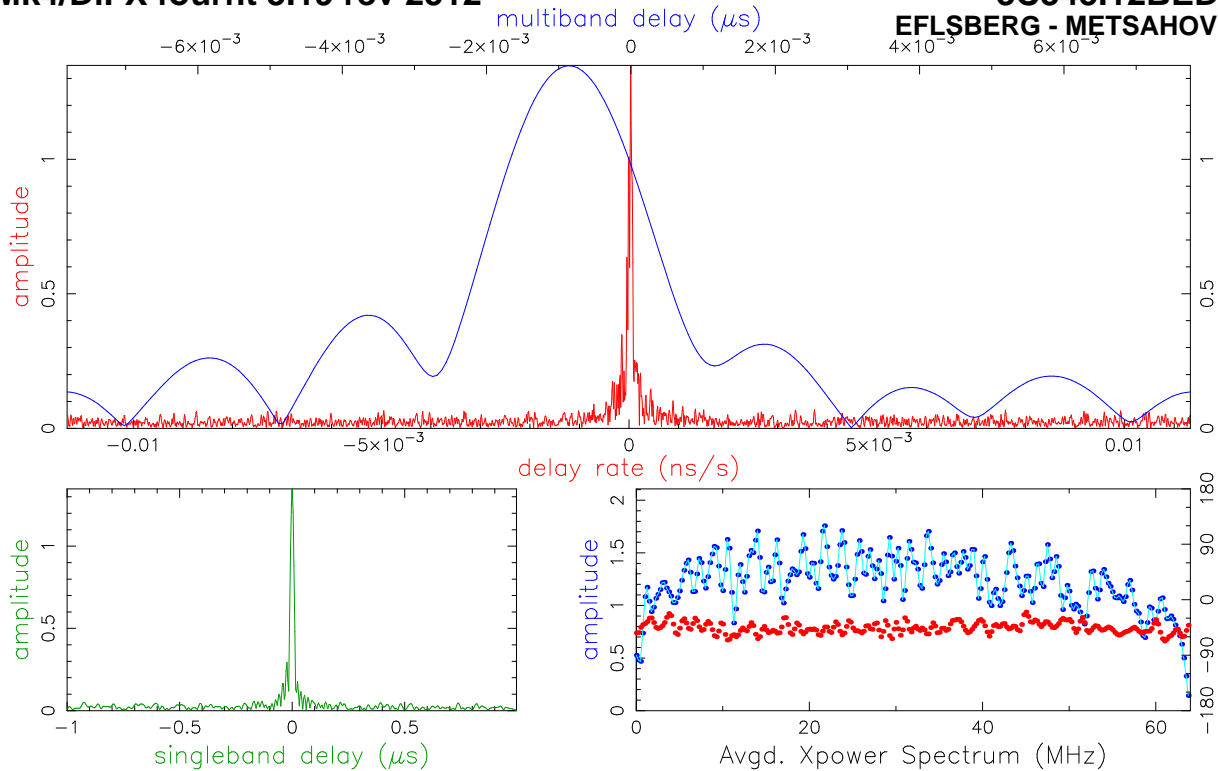


86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
-95.4	-119.0	-99.8	-77.7	-89.6	-84.1	-100.0	-126.5	Phase	-97.8
0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	Ampl.	0.5
257.6	257.8	257.1	257.0	257.3	257.5	257.6	256.5	Sbd box	257.4
U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z 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	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Tracks	
Group delay (usec)(sbd)	2.31190273361E+03		Apriori delay (usec)	2.31190119911E+03	Resid mbdelay (usec)	1.53450E-03	+/-	4.3E-05	
Sband delay (usec)	2.31190277686E+03		Apriori clock (usec)	1.6656853E+01	Resid sbdelay (usec)	1.57775E-03	+/-	3.4E-04	
Phase delay (usec)	2.31190119596E+03		Apriori clockrate (us/s)	-2.1629280E-07	Resid phdelay (usec)	-3.15520E-06	+/-	1.5E-07	
Delay rate (us/s)	-1.73964929186E-02		Apriori rate (us/s)	-1.73965286540E-02	Resid rate (us/s)	3.57354E-08	+/-	6.1E-10	
Total phase (deg)		7.1	Apriori accel (us/s/s)	-1.91529033202E-05	Resid phase (deg)	-97.8	+/-	4.6	

ph/seg (deg)	52.8	11.0	RMS	11.0	Theor.	Amplitude	0.447 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	62.8	19.1	Search (2048X32)	0.436	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	Interp.	0.000	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	18.0	6.5	Inc. seg. avg.	0.702	Sample rate(MISamp/s): 128	Inc. seg. avg.	0.702	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	9.5	11.3	Inc. frq. avg.	0.455		Inc. frq. avg.	0.455						

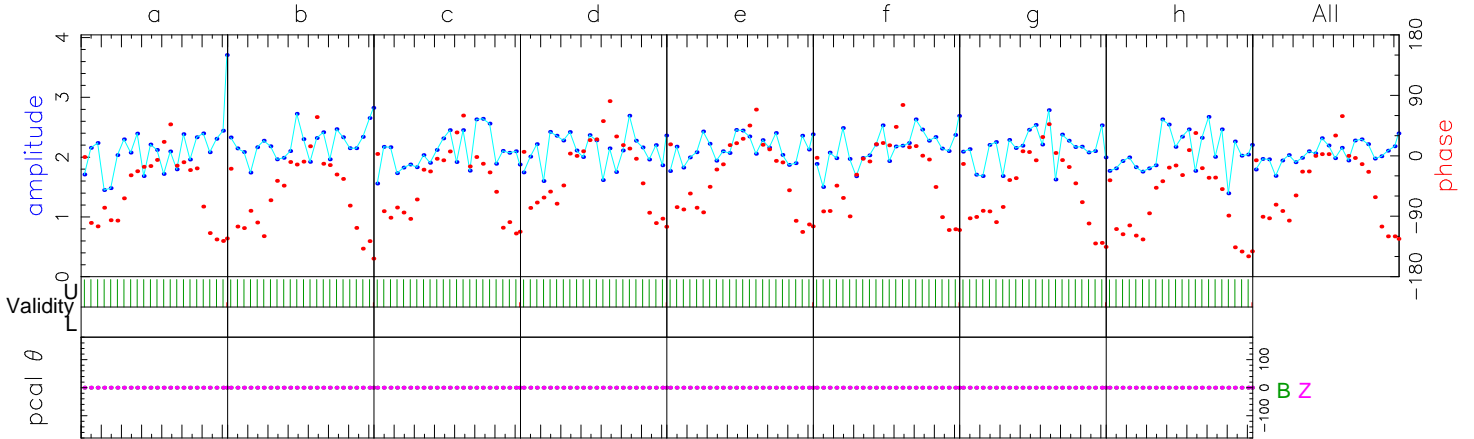
B: az 269.2 el 56.7 pa 55.8 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) 95.277 -1909.224 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BZ..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BZ.W.143.12BED8



Fringe quality 4
SNR 75.5
Int time 419.362
Amp 1.349
Phase -40.0
PFD 0.0e+00
Delays (us)
SBD -0.000390
MBD -0.000869
Fringe rate (Hz) 0.003055
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165605
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-50.2	-54.4	-38.5	-21.3	-27.4	-23.7	-44.0	-61.5	Phase	-40.0
	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	Ampl.	1.4
	257.3	256.9	257.1	256.9	256.6	256.8	256.6	256.1	Sbd box	256.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	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	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.31190033027E+03		Apriori delay (usec)		2.31190119911E+03		Resid mbdelay (usec)		-8.68846E-04	+/- 1.4E-05
Sband delay (usec)	2.31190080936E+03		Apriori clock (usec)		1.6656853E+01		Resid sbdelay (usec)		-3.89750E-04	+/- 1.1E-04
Phase delay (usec)	2.31190119782E+03		Apriori clockrate (us/s)		-2.1629280E-07		Resid phdelay (usec)		-1.29001E-06	+/- 4.9E-08
Delay rate (us/s)	-1.73964931879E-02		Apriori rate (us/s)		-1.73965286540E-02		Resid rate (us/s)		3.54661E-08	+/- 2.0E-10
Total phase (deg)	64.9		Apriori accel (us/s/s)		-1.91529033202E-05		Resid phase (deg)		-40.0	+/- 1.5

ph/seg (deg) 50.2 3.6 Search (2048X32) 1.326 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 53.6 6.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.2 2.1 Inc. seg. avg. 2.050 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 3.7 3.7 Inc. frq. avg. 1.387 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) 95.277 -1909.224 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/BZ..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/BZ.W.86.12BED8