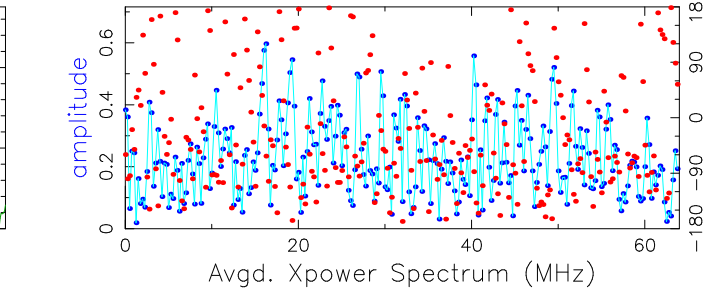
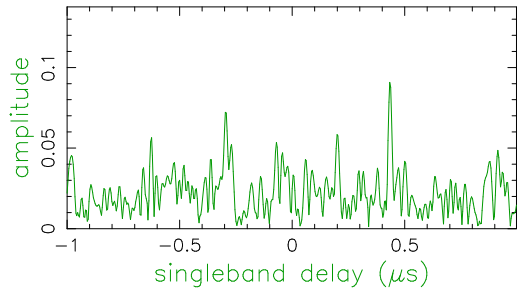


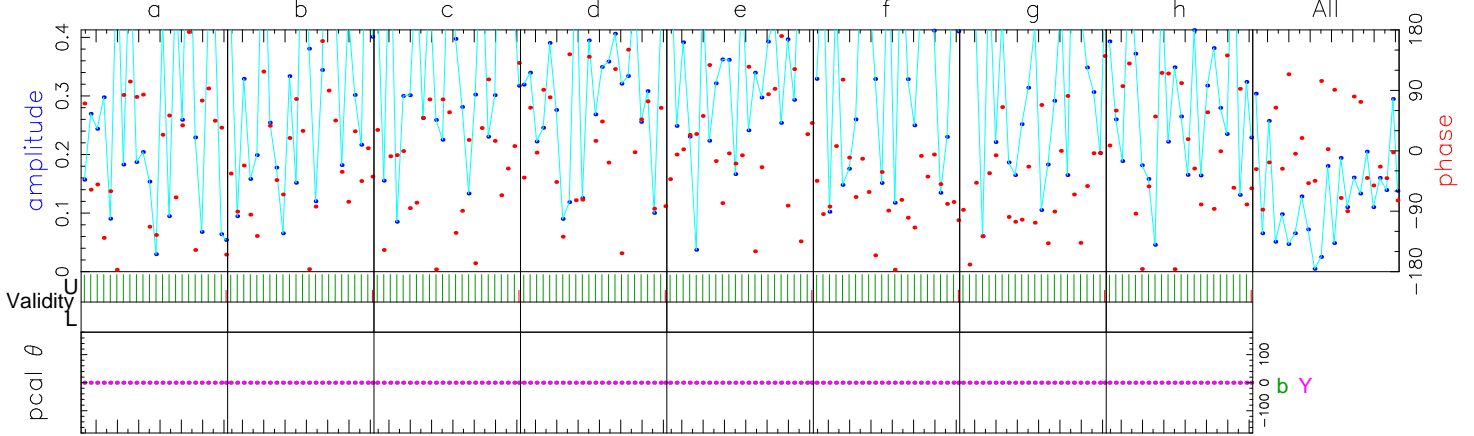
Fringe quality 0

SNR 5.0
Int time 400.941
Amp 0.138
Phase -17.8
PFD 1.0e+00
Delays (us)
SBD 0.434772
MBD -0.008301
Fringe rate (Hz)
-0.933508
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
2020:086:165612
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



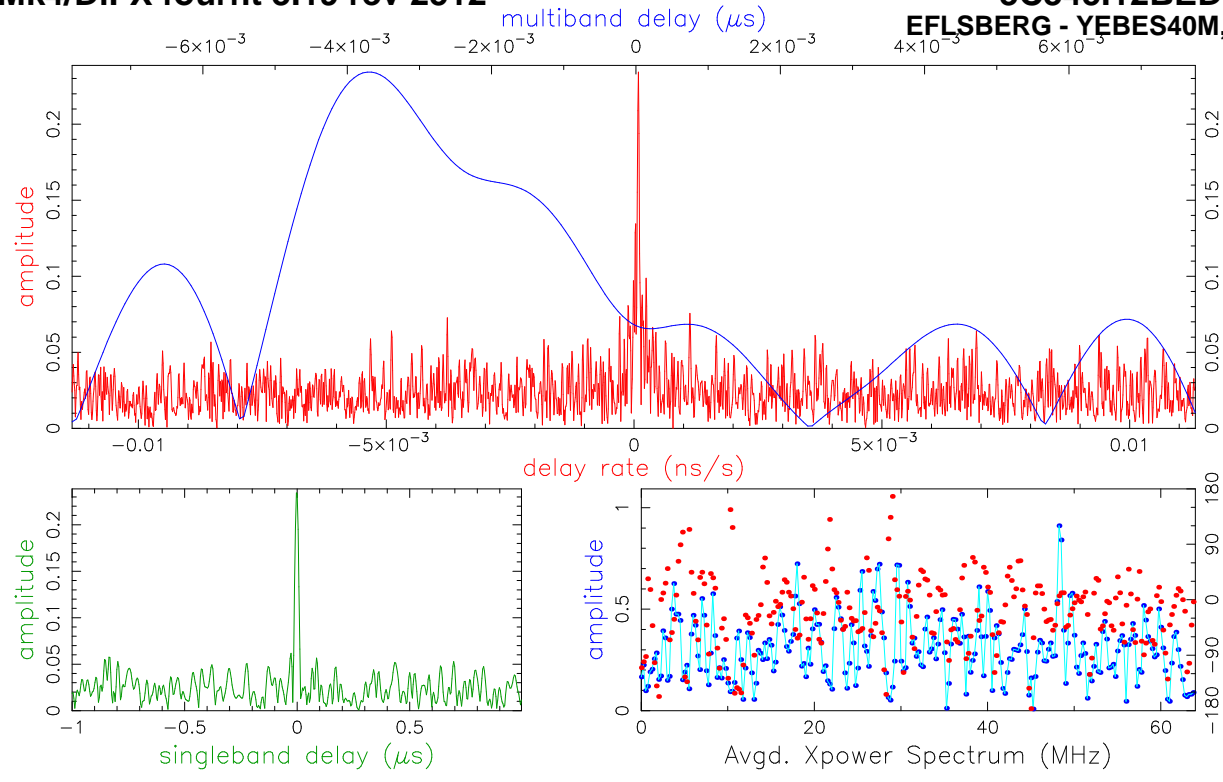
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.83006684594E+03	Apriori delay (usec)	-6.83049604516E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	2.2E-04
Sband delay (usec)	-6.83006127341E+03	Apriori clock (usec)	-1.0264677E+01	Resid sbdelay (usec)	4.34772E-01	+/-	1.7E-03
Phase delay (usec)	-6.83049604573E+03	Apriori clockrate (us/s)	-4.6239510E-07	Resid phdelay (usec)	-5.75474E-07	+/-	7.4E-07
Delay rate (us/s)	1.32585292745E+00	Apriori rate (us/s)	1.32586376455E+00	Resid rate (us/s)	-1.08371E-05	+/-	3.2E-09
Total phase (deg)	-136.6	Apriori accel (us/s/s)	4.31182720075E-05	Resid phase (deg)	-17.8	+/-	22.9

ph/seg (deg)	63.1	Theor.	54.9	Amplitude	0.138 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	98.0	Search (2048X32)	0.107	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	62.7	Inc. seg. avg.	0.134	Inc. frq. avg.	0.160	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	81.5	Inc. frq. avg.	0.160			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						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 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9803.997 3585.603 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.114.12BED8

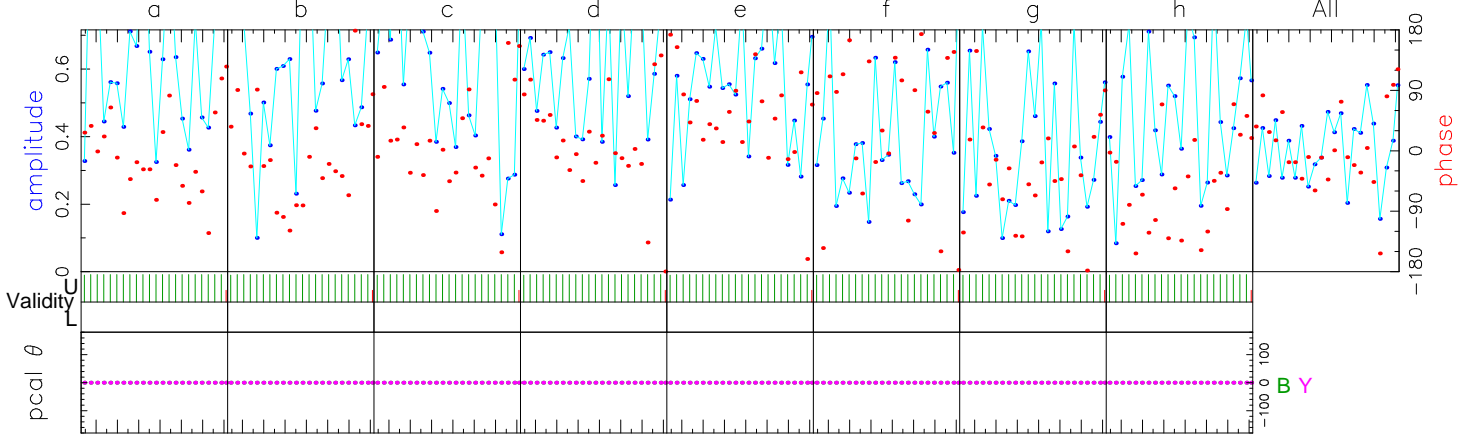


Fringe quality 9

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

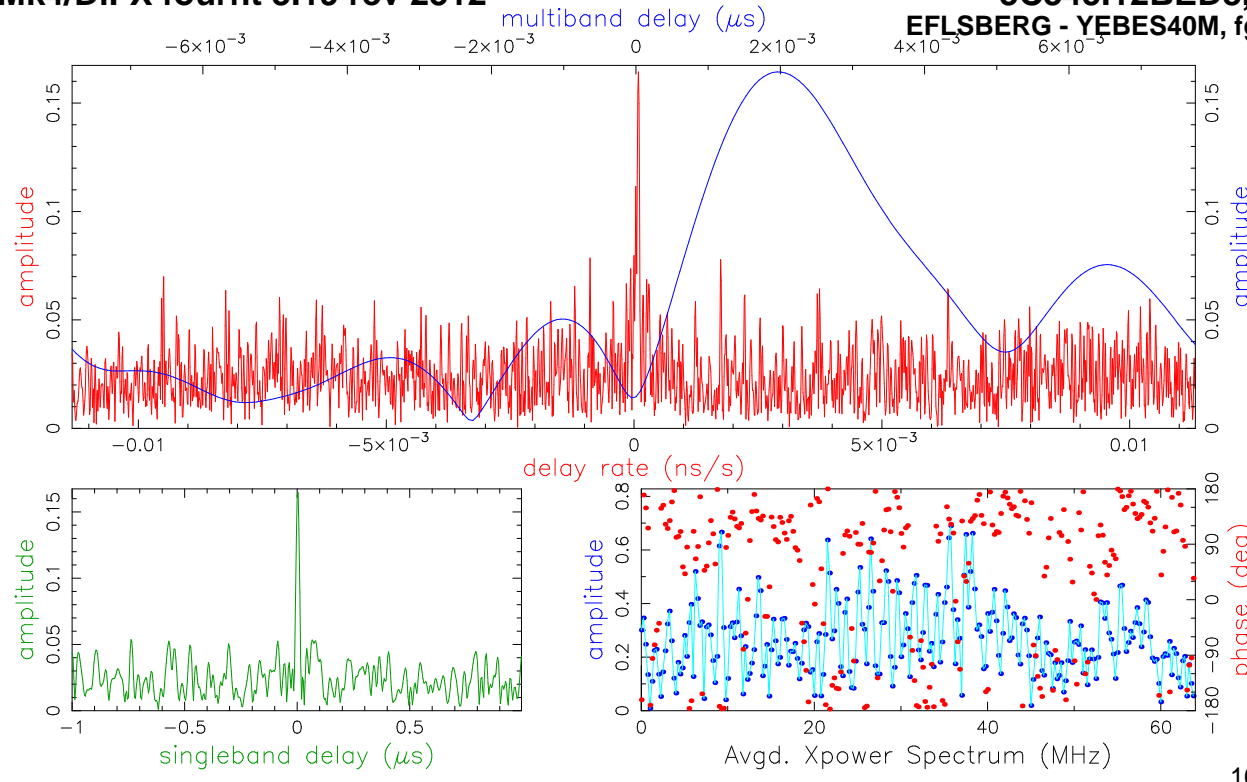


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	2.0	-20.9	-0.6	23.3	53.6	109.4	-19.3	-53.4	Phase	5.2
B	0.4	0.3	0.4	0.3	0.3	0.1	0.2	0.2	Ampl.	0.3
Y	256.7	255.3	256.7	256.7	256.5	40.9	256.5	368.4	Sbd box	256.5
B	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
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		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.16629996861E+03		Apriori delay (usec)		-1.16629630439E+03		Resid mbdelay (usec)		-3.66423E-03	+/- 8.3E-05
Sband delay (usec)	-1.16629837389E+03		Apriori clock (usec)		7.1870832E+00		Resid sbdelay (usec)		-2.06950E-03	+/- 6.6E-04
Phase delay (usec)	-1.16629630422E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		1.66307E-07	+/- 2.8E-07
Delay rate (us/s)	-1.05711730211E-02		Apriori rate (us/s)		-1.05712671409E-02		Resid rate (us/s)		9.41198E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.50620676164E-05		Resid phase (deg)		5.2	+/- 8.8

	RMS	Theor.	Amplitude	0.239 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	57.8	21.0	Search (2048X32)	0.225	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	67.3	36.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	55.2	12.4	Inc. seg. avg.	0.342	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	42.2	21.6	Inc. frq. avg.	0.284	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

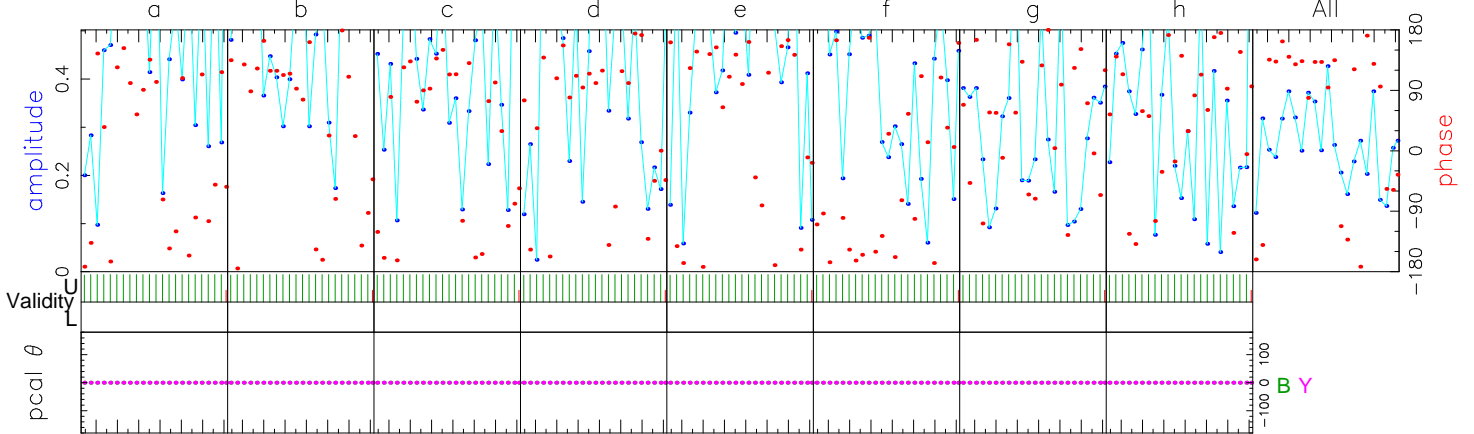
B: az 269.2 el 56.7 pa 55.8 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 106.525 1816.010 simultaneous interpolator

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.119.12BED8



Fringe quality 9
 SNR 9.2
 Int time 401.317
 Amp 0.167
 Phase 142.9
 PFD 1.8×10^{-11}
 Delays (us)
 SBD 0.002199
 MBD 0.001953
 Fringe rate (Hz) 0.007523
 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
 2020:086:165618
 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

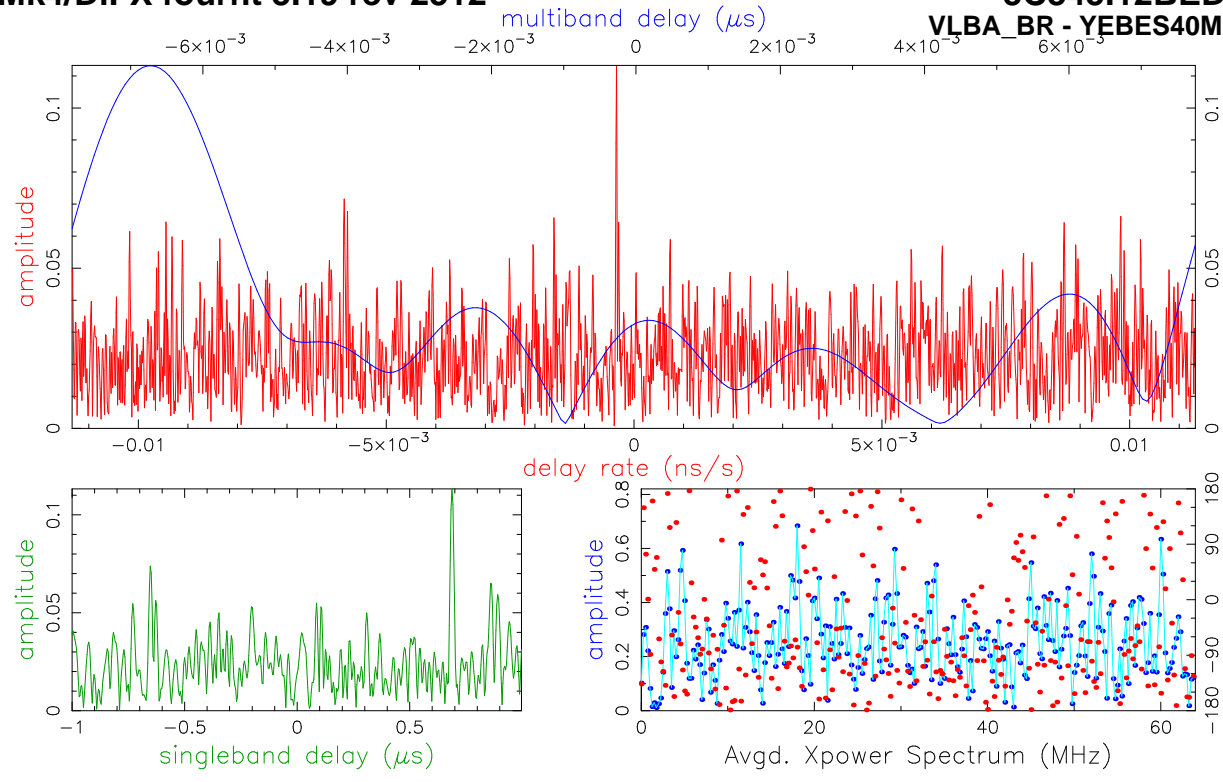


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	139.2	135.4	136.3	135.3	153.5	-148.8	82.3	106.9	Phase	142.9
	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	Ampl.	0.2
	199.9	256.8	256.9	257.7	257.9	257.3	212.6	390.0	Sbd box	257.6
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	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

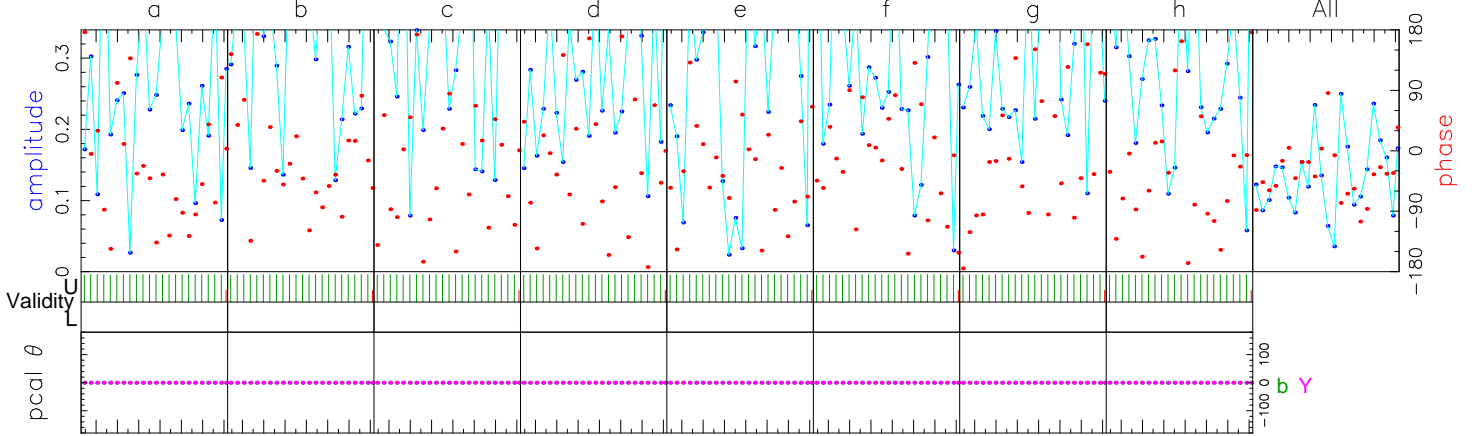
ph/seg (deg)	68.5	RMS	30.0	Theor.	30.0	Amplitude	0.167 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	76.5	Search (2048X32)	0.164	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	40.7	Inc. seg. avg.	0.234	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	37.1	Inc. frq. avg.	0.182										

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



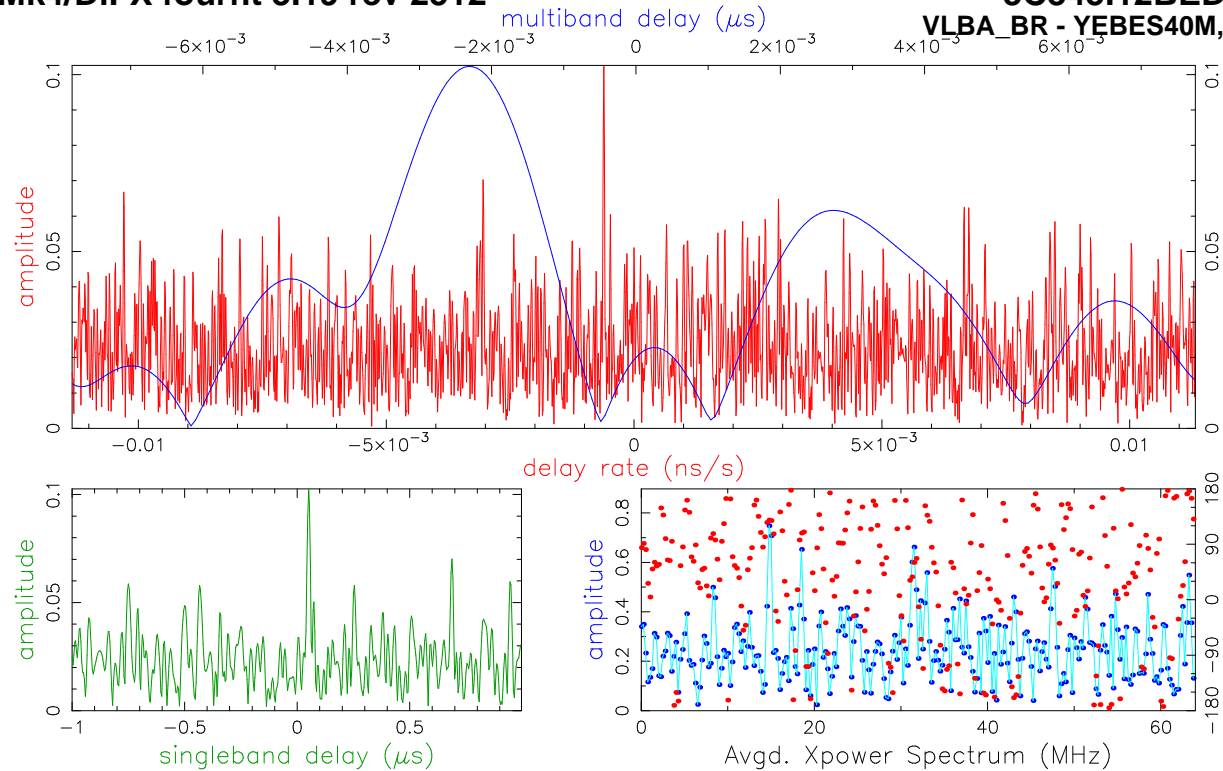
Fringe quality 0
SNR 6.2
Int time 400.941
Amp 0.113
Phase -40.8
PFD 1.4e-01
Delays (us)
SBD 0.687777
MBD -0.006720
Fringe rate (Hz)
-0.030841
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Exp# 2020:072:124544
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
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, 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
	-66.1	-22.4	-53.0	-23.7	-28.0	-17.5	-44.6	-72.1	Phase	-40.8
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	431.4	56.1	165.7	117.1	278.8	45.9	52.0	293.2	Sbd box	433.1
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	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.82981526509E+03		Apriori delay (usec)		-6.83049604516E+03		Resid mbdelay (usec)		-6.71993E-03	+/- 1.8E-04
Sband delay (usec)	-6.82980826866E+03		Apriori clock (usec)		-1.0264677E+01		Resid sbdelay (usec)		6.87777E-01	+/- 1.4E-03
Phase delay (usec)	-6.83049604647E+03		Apriori clockrate (us/s)		-4.6239510E-07		Resid phdelay (usec)		-1.31490E-06	+/- 6.0E-07
Delay rate (us/s)	1.32586340651E+00		Apriori rate (us/s)		1.32586376455E+00		Resid rate (us/s)		-3.58038E-07	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		4.31182720075E-05		Resid phase (deg)		-40.8	+/- 18.5

ph/seg (deg) 40.6 44.3 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 52.4 77.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 22.8 26.1 Inc. seg. avg. 0.104 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 29.2 45.6 Inc. frq. avg. 0.109 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 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9803.997 3585.603 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.64.12BED8

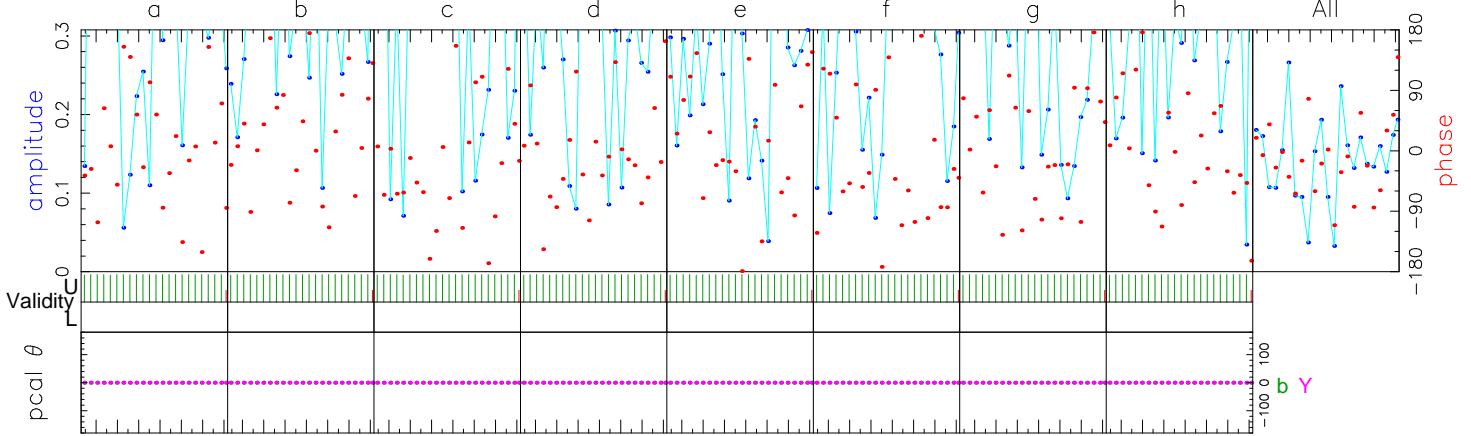


Fringe quality 0

SNR 5.6
Int time 400.941
Amp 0.103
Phase -15.4
PFD 9.9e-01
Delays (us)
SBD 0.051309
MBD -0.002272
Fringe rate (Hz)
-0.052118
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
2020:086:165602
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

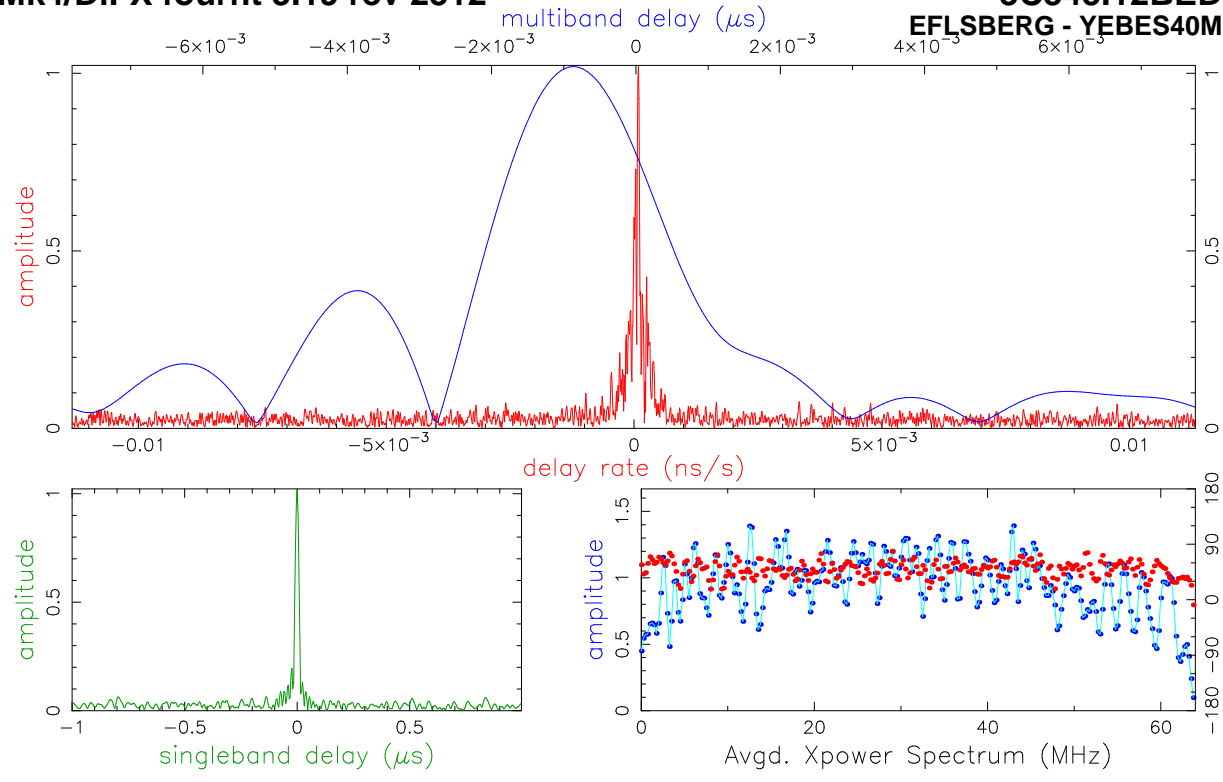


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.83045144234E+03				-6.83049604516E+03					
Sband delay (usec)	-6.83044473591E+03				-1.0264677E+01					
Phase delay (usec)	-6.83049604566E+03				-4.6239510E-07					
Delay rate (us/s)	1.32586315951E+00				1.32586376455E+00					
Total phase (deg)			-134.2		4.31182720075E-05					
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)										

	RMS	Theor.	Amplitude	0.103 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	52.3	49.0	Search (2048X32)	0.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	65.9	85.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.4	28.9	Inc. seg. avg.	0.105	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	40.6	50.4	Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 66.1 el 33.9 pa -52.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9803.997 3585.603 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.82.12BED8

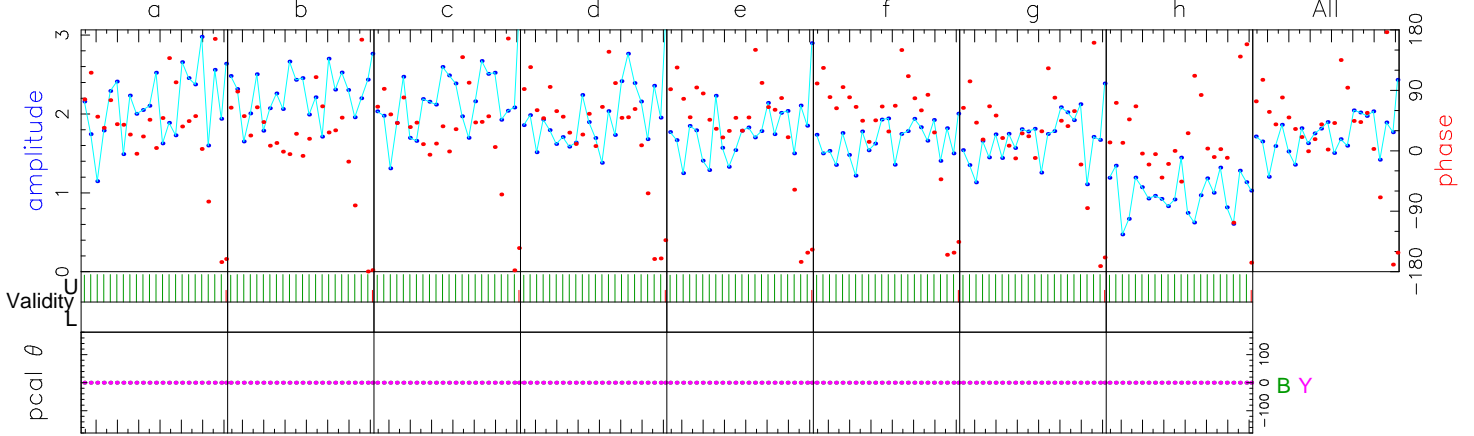


Fringe quality 3

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



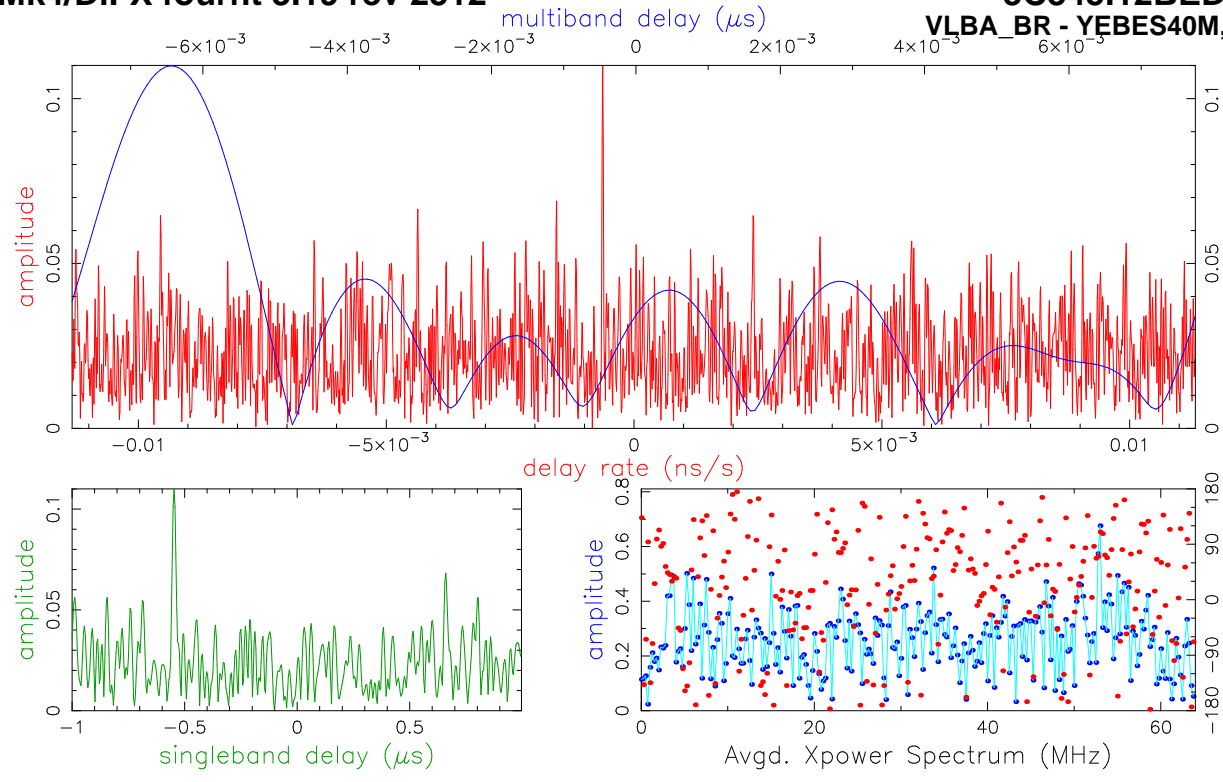
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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

ph/seg (deg)	61.3	RMS	Theor.	Amplitude	1.022 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	73.1	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			
ph/frq (deg)	21.2	73.1	8.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	23.7	21.2	2.9	Inc. seg. avg.	1.724	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011			
		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

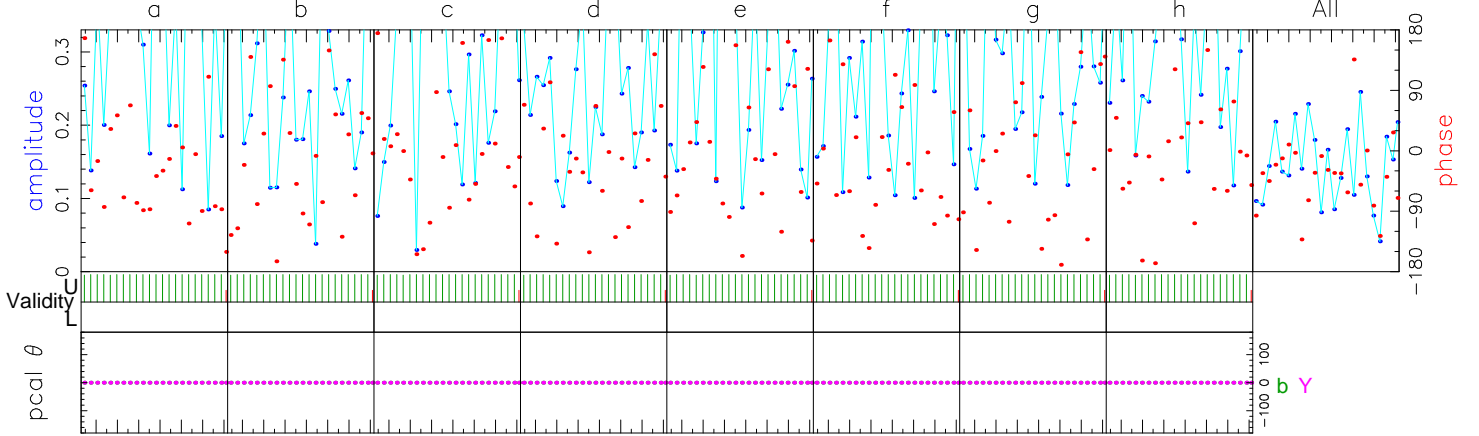


Fringe quality 0

SNR 6.0
 Int time 400.941
 Amp 0.110
 Phase -37.1
 PFD 3.7e-01
 Delays (us)
 SBD -0.546894
 MBD -0.006438
 Fringe rate (Hz)
 -0.054539
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

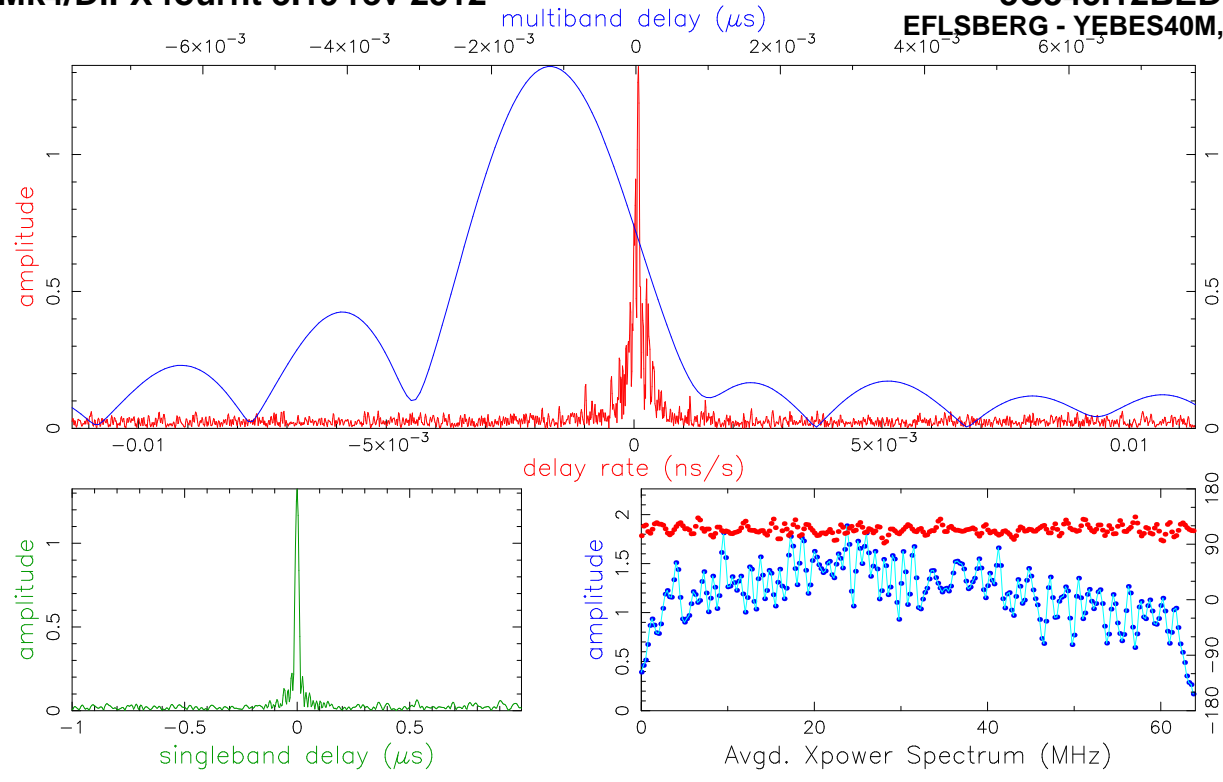
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165607
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

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
	-43.8	-28.8	-28.8	-18.1	-30.3	-53.0	-75.3	-14.2		-37.1
	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1		0.1
	115.5	67.7	404.8	242.2	400.5	427.3	120.0	34.4		117.0
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.83104935812E+03		Apriori delay (usec)		-6.83049604516E+03		Resid mbdelay (usec)		-6.43796E-03	+/- 1.8E-04
Sband delay (usec)	-6.83104293941E+03		Apriori clock (usec)		-1.0264677E+01		Resid sbdelay (usec)		-5.46894E-01	+/- 1.4E-03
Phase delay (usec)	-6.83049604636E+03		Apriori clockrate (us/s)		-4.6239510E-07		Resid phdelay (usec)		-1.19797E-06	+/- 6.1E-07
Delay rate (us/s)	1.32586313141E+00		Apriori rate (us/s)		1.32586376455E+00		Resid rate (us/s)		-6.33139E-07	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		4.31182720075E-05		Resid phase (deg)		-37.1	+/- 19.0

ph/seg (deg) 54.2 45.6 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.0 79.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.7 26.9 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.0 47.0 Inc. frq. avg. 0.104 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 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9803.997 3585.603 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.89.12BED8

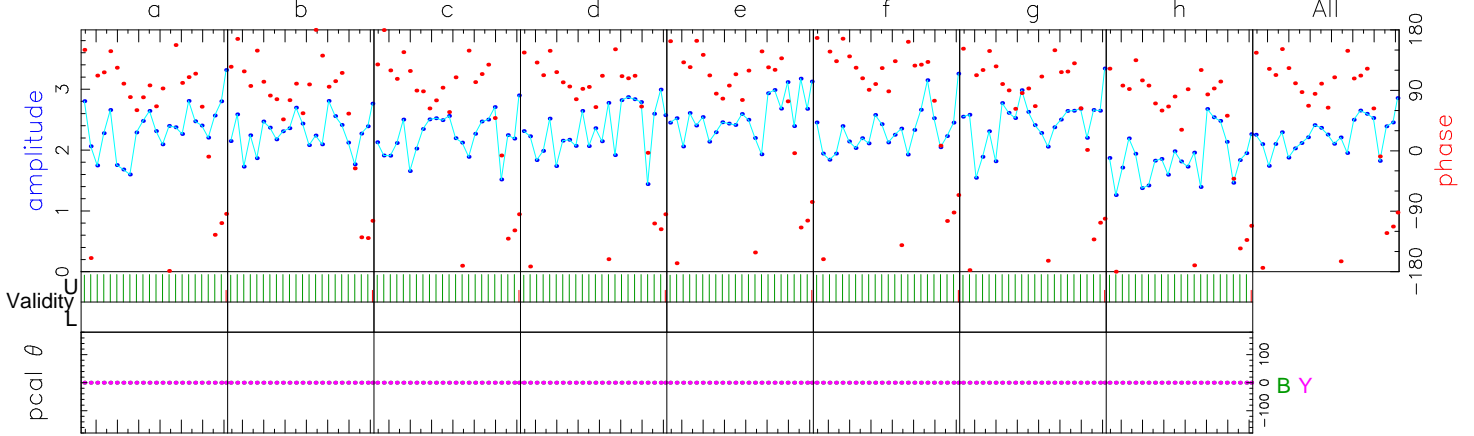


Fringe quality 4

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



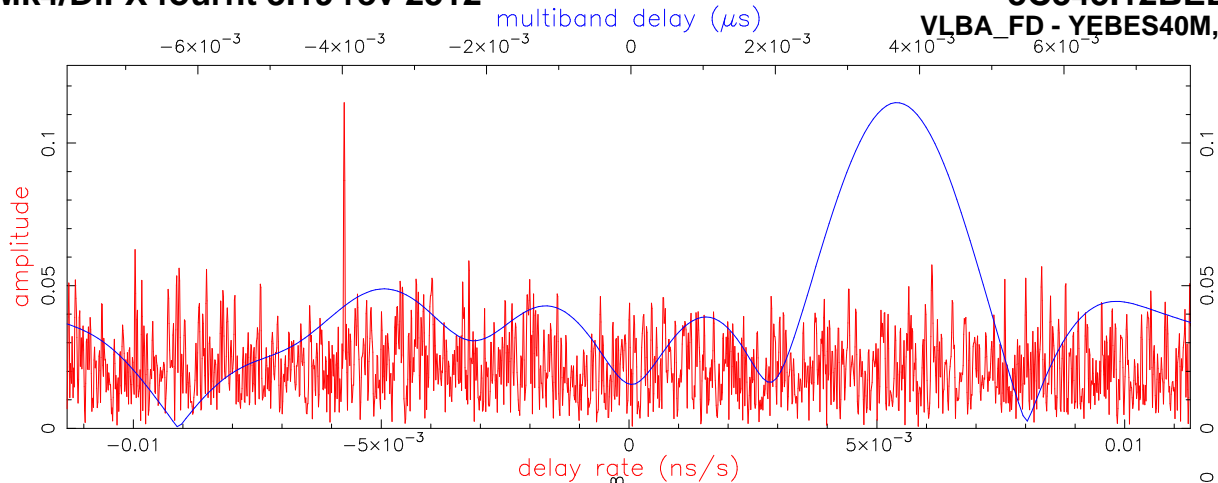
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	117.9	108.0	112.1	121.4	130.1	137.2	119.5	99.6	Phase	118.7
B	1.3	1.4	1.3	1.4	1.5	1.4	1.4	1.1	Ampl.	1.3
Y	256.9	256.3	257.1	256.7	256.9	256.6	256.9	255.3	Sbd box	256.8
B	785/0	785/0	785/0	785/0	785/0	785/0	785/0	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
									PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
									PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
									Bits/sample: 2x2	mb window (us) -0.008 0.008
									SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
									Sample rate(MISamp/s): 128	ion window (TEC) 0.00 0.00
									Data rate(Mb/s): 2048	
									nlags: 256	
									t_cohere infinite	

ph/seg (deg) 60.2 3.8 Search (2048X32) 1.284 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.4 6.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.9 2.2 Inc. seg. avg. 2.232 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.6 3.9 Inc. frq. avg. 1.345 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 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

Mk4/DiFX fourfit 3.19 rev 2512

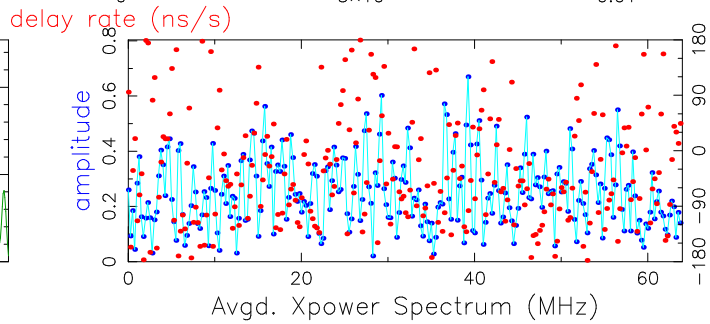
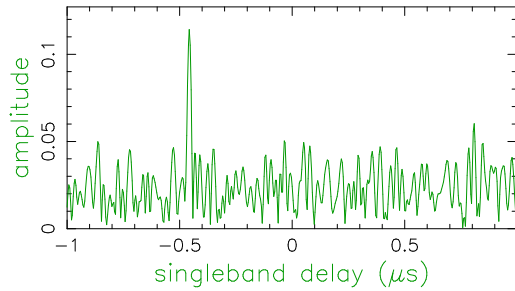
3C345.12BED8, No0001, fY

VLBA_FD - YEYES40M, fgroup W, pol RR



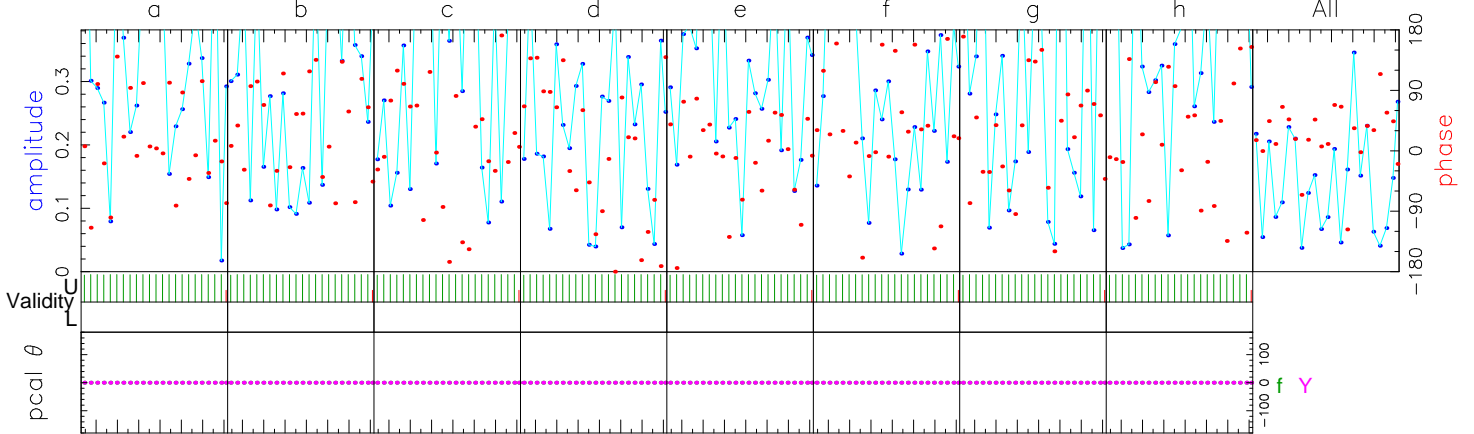
Fringe quality 0

SNR 6.3
 Int time 400.946
 Amp 0.127
 Phase 29.9
 PFD 1.0e-01
 Delays (us)
 SBD -0.456995
 MBD 0.003686
 Fringe rate (Hz)
 -0.495557
 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

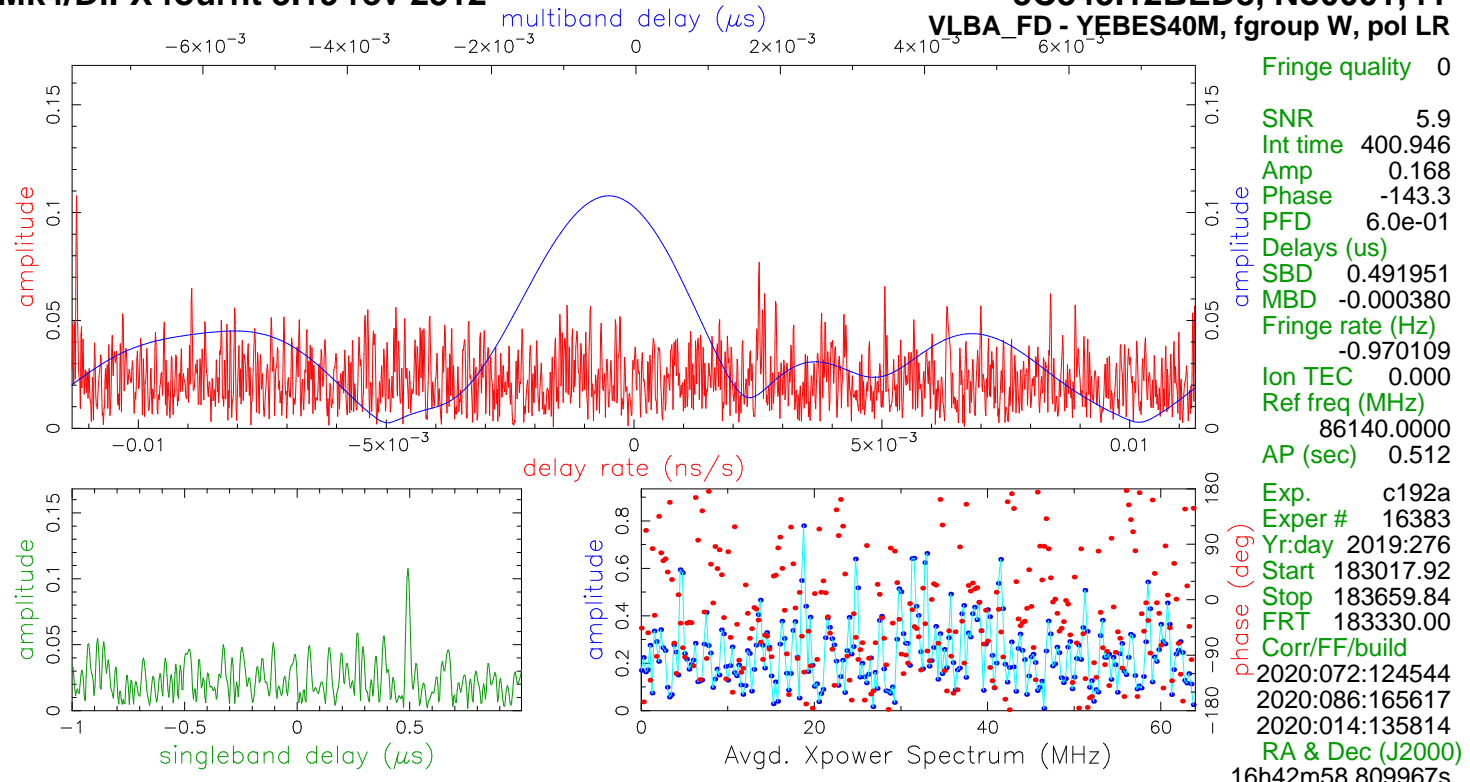


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

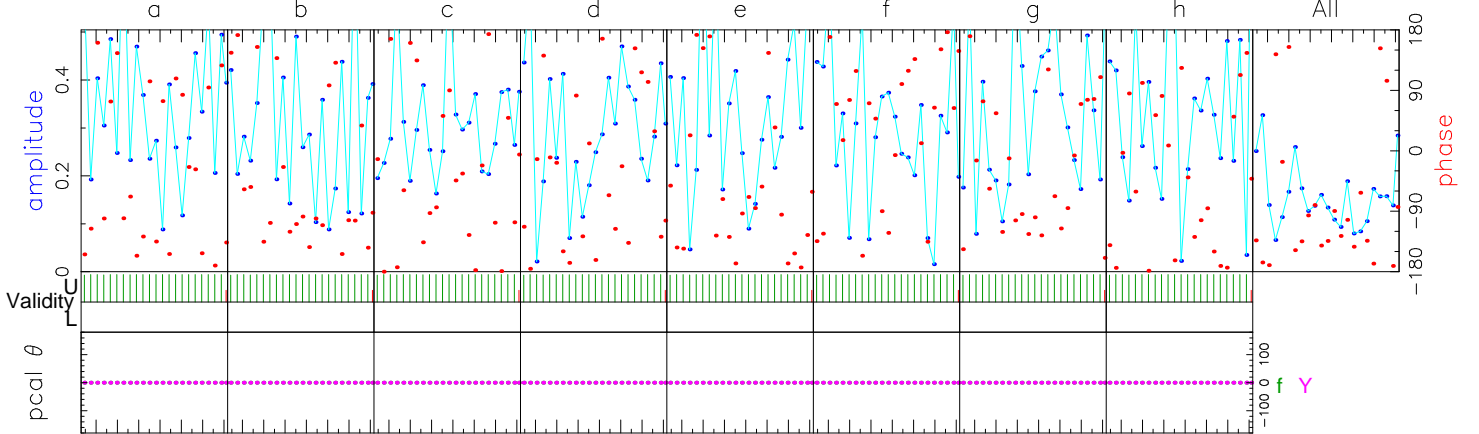
Group delay (usec)(sbd)	-5.80409819249E+03	Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	3.68644E-03	+/-	1.7E-04
Sband delay (usec)	-5.80410574918E+03	Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	-4.56995E-01	+/-	1.4E-03
Phase delay (usec)	-5.80364875297E+03	Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	9.63608E-07	+/-	5.9E-07
Delay rate (us/s)	1.46605683460E+00	Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	-5.75292E-06	+/-	2.5E-09
Total phase (deg)	-209.1	Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	29.9	+/-	18.3

ph/seg (deg)	46.5	Theor.	44.0	Amplitude	0.127 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	73.7		76.7	Search (2048X32)	0.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	36.2		25.9	Inc. seg. avg.	0.121	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	48.9		45.3	Inc. frq. avg.	0.124	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10890.829 532.173 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fY.W.121.12BED8



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
	-164.5	-124.7	-150.4	-135.4	-140.8	151.8	-117.2	-141.8	Phase	-143.3
	0.2	0.3	0.1	0.1	0.3	0.1	0.1	0.1	Ampl.	0.2
	66.9	383.0	452.7	243.9	383.2	170.7	231.6	435.8	Sbd box	382.9
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.80314913423E+03		Apriori delay (usec)		-5.80364875393E+03		Resid mbdelay (usec)		-3.80296E-04	+/- 1.8E-04
Sband delay (usec)	-5.80315680243E+03		Apriori clock (usec)		-9.1971989E+00		Resid sbdelay (usec)		4.91951E-01	+/- 1.5E-03
Phase delay (usec)	-5.80364875855E+03		Apriori clockrate (us/s)		-3.1094951E-07		Resid phdelay (usec)		-4.62142E-06	+/- 6.3E-07
Delay rate (us/s)	1.46605132551E+00		Apriori rate (us/s)		1.46606258752E+00		Resid rate (us/s)		-1.12620E-05	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.06987568677E-05		Resid phase (deg)		-143.3	+/- 19.4

ph/seg (deg) 53.5 46.5 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

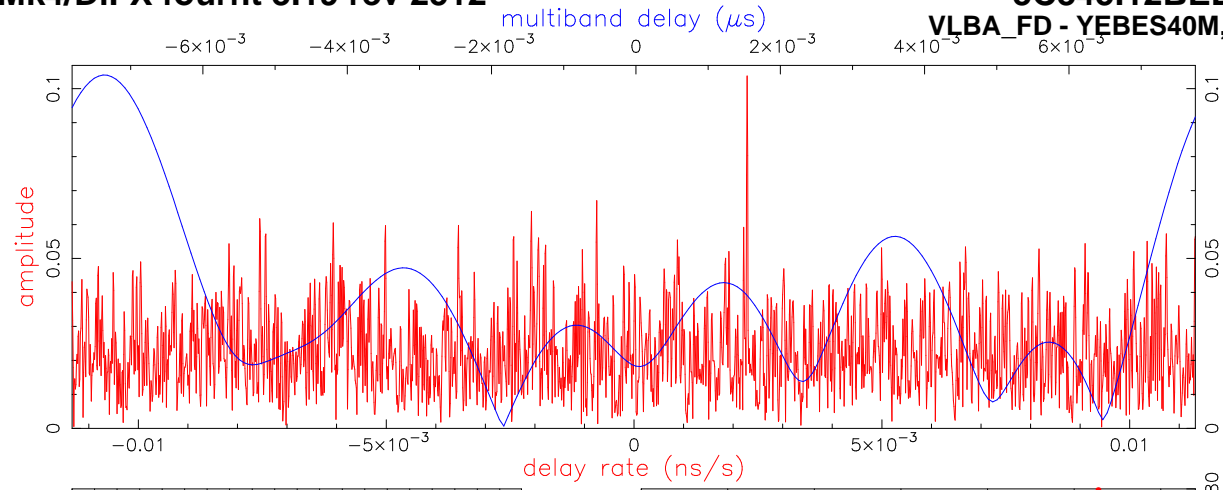
amp/seg (%) 72.9 81.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 31.1 27.5 Inc. seg. avg. 0.181 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 50.7 47.9 Inc. frq. avg. 0.163 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

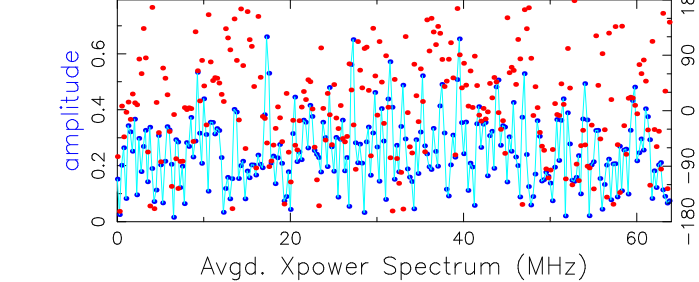
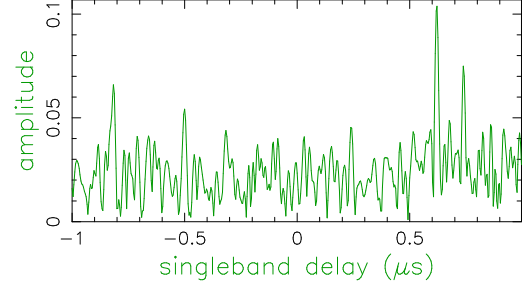
f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10890.829 532.173 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fY.W.138.12BED8



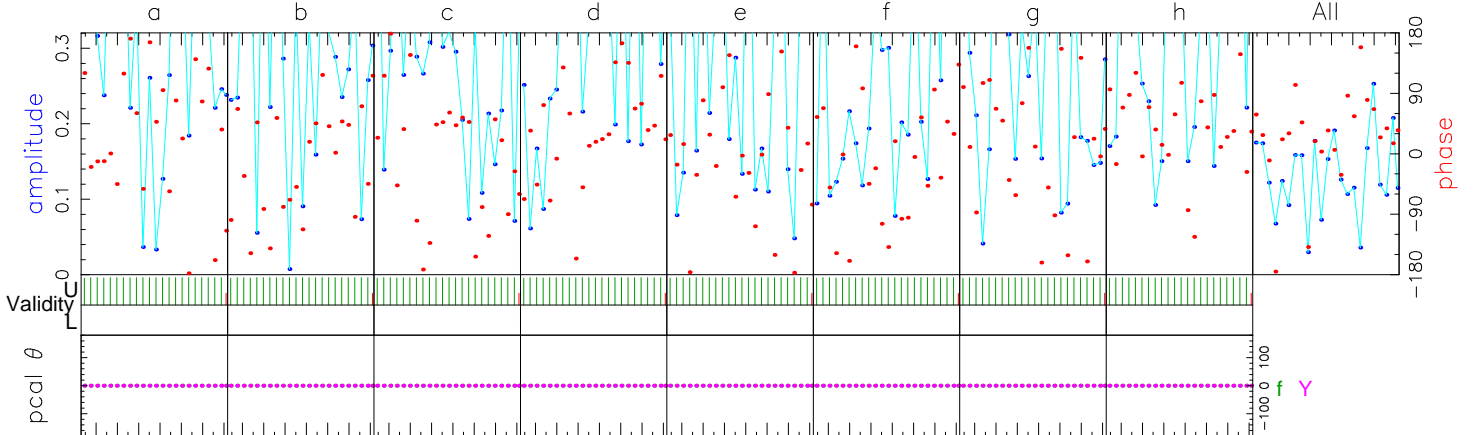
Fringe quality 0

SNR 5.8
 Int time 400.946
 Amp 0.107
 Phase 38.8
 PFD 8.9e-01
 Delays (us)
 SBD 0.619614
 MBD -0.007441
 Fringe rate (Hz)
 0.197052
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c192a
 Yr:day # 16383
 Start 2020:072:124544
 Stop 2020:086:165621
 FRT 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

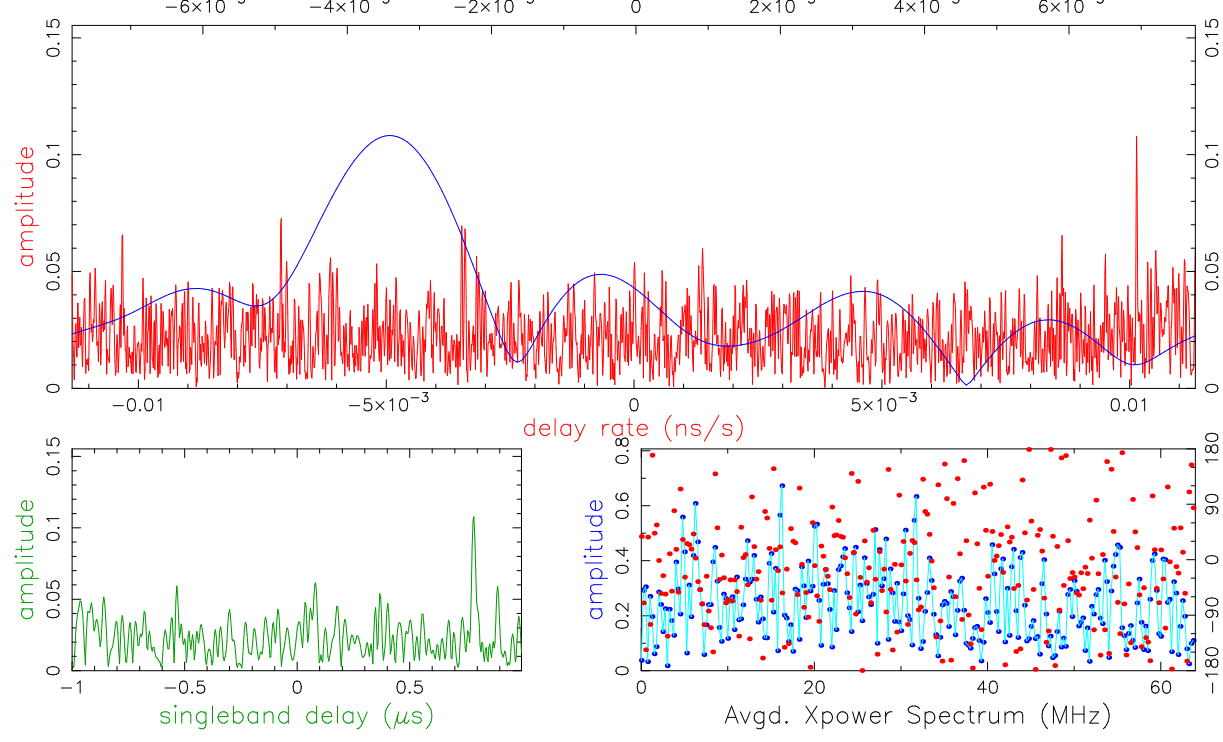


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-5.80303119457E+03	Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	-7.44064E-03	+/-	1.9E-04
Sband delay (usec)	-5.80302913968E+03	Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	6.19614E-01	+/-	1.5E-03
Phase delay (usec)	-5.80364875268E+03	Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	1.25232E-06	+/-	6.4E-07
Delay rate (us/s)	1.46606487510E+00	Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	2.28758E-06	+/-	2.8E-09
Total phase (deg)	-200.1	Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	38.8	+/-	19.9

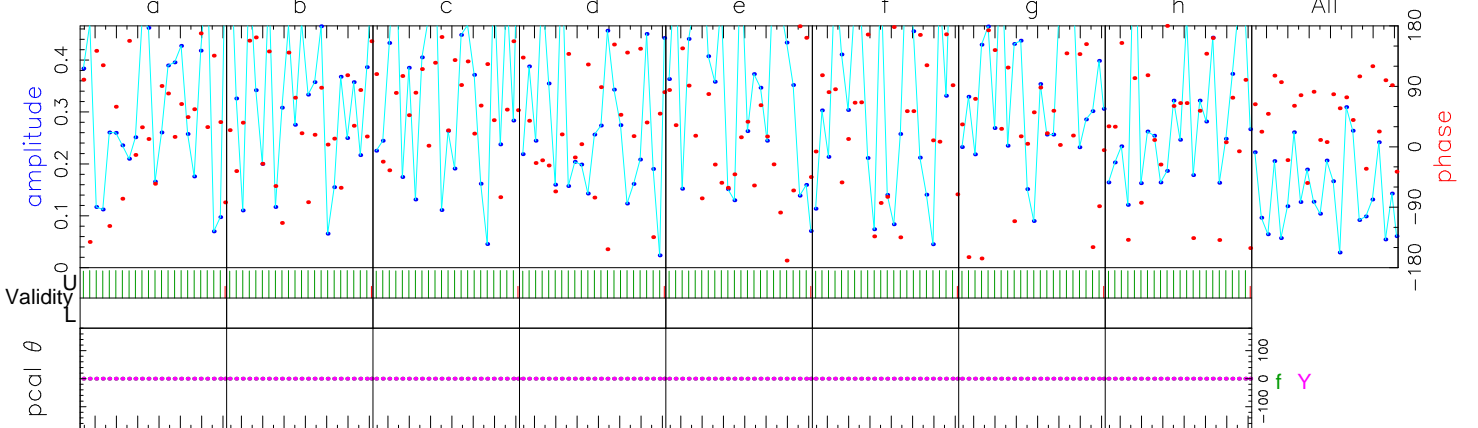
ph/seg (deg)	62.5	Theor.	47.8	Amplitude	0.107 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	57.2	Search (2048X32)	0.100	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	30.7	Inc. seg. avg.	0.100	Inc. frq. avg.	0.103	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	51.5	Inc. frq. avg.	0.103			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10890.829 532.173 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fY.W.157.12BED8



Fringe quality 0
 SNR 6.0
 Int time 400.946
 Amp 0.155
 Phase 53.4
 PFD 4.7e-01
 Delays (us)
 SBD 0.783705
 MBD -0.003512
 Fringe rate (Hz) 0.874538
 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

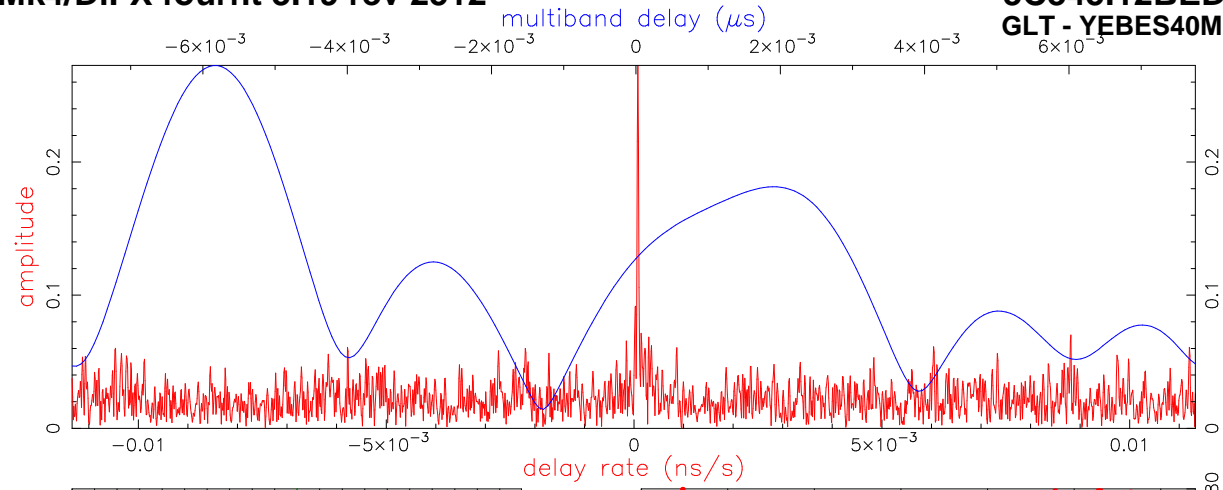


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-5.80287101635E+03	Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	-3.51242E-03	+/-	1.8E-04
Sband delay (usec)	-5.80286504868E+03	Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	7.83705E-01	+/-	1.4E-03
Phase delay (usec)	-5.80364875221E+03	Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	1.72192E-06	+/-	6.2E-07
Delay rate (us/s)	1.46607274004E+00	Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	1.01525E-05	+/-	2.7E-09
Total phase (deg)	-185.6	Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	53.4	+/-	19.2

ph/seg (deg)	48.0	Theor.	46.1	Amplitude	0.155 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	78.6		80.4	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	32.0		27.2	Inc. seg. avg.	0.160	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	38.0		47.4	Inc. frq. avg.	0.157	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

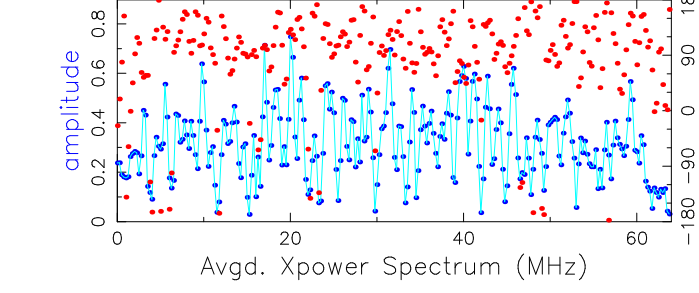
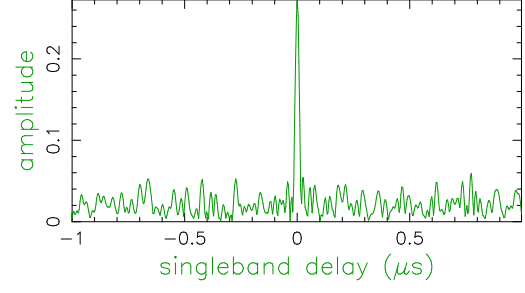
f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10890.829 532.173 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fY.W.97.12BED8



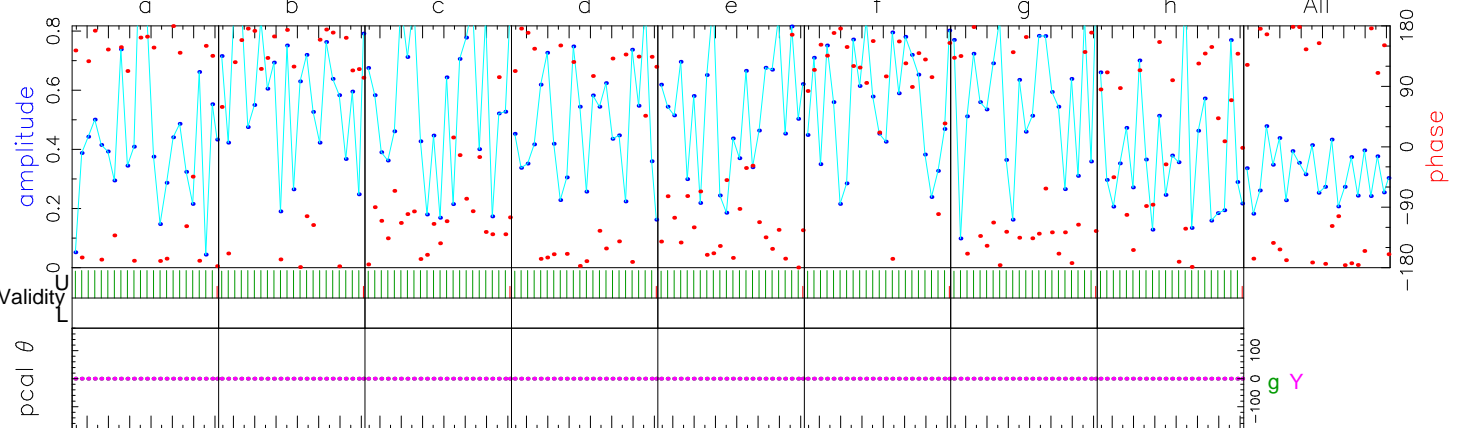
Fringe quality 7

SNR 14.9
Int time 401.178
Amp 0.273
Phase -177.7
PFD 1.3e-41
Delays (us)
SBD 0.000245
MBD -0.005826
Fringe rate (Hz) 0.006701
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
2020:086:165624
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

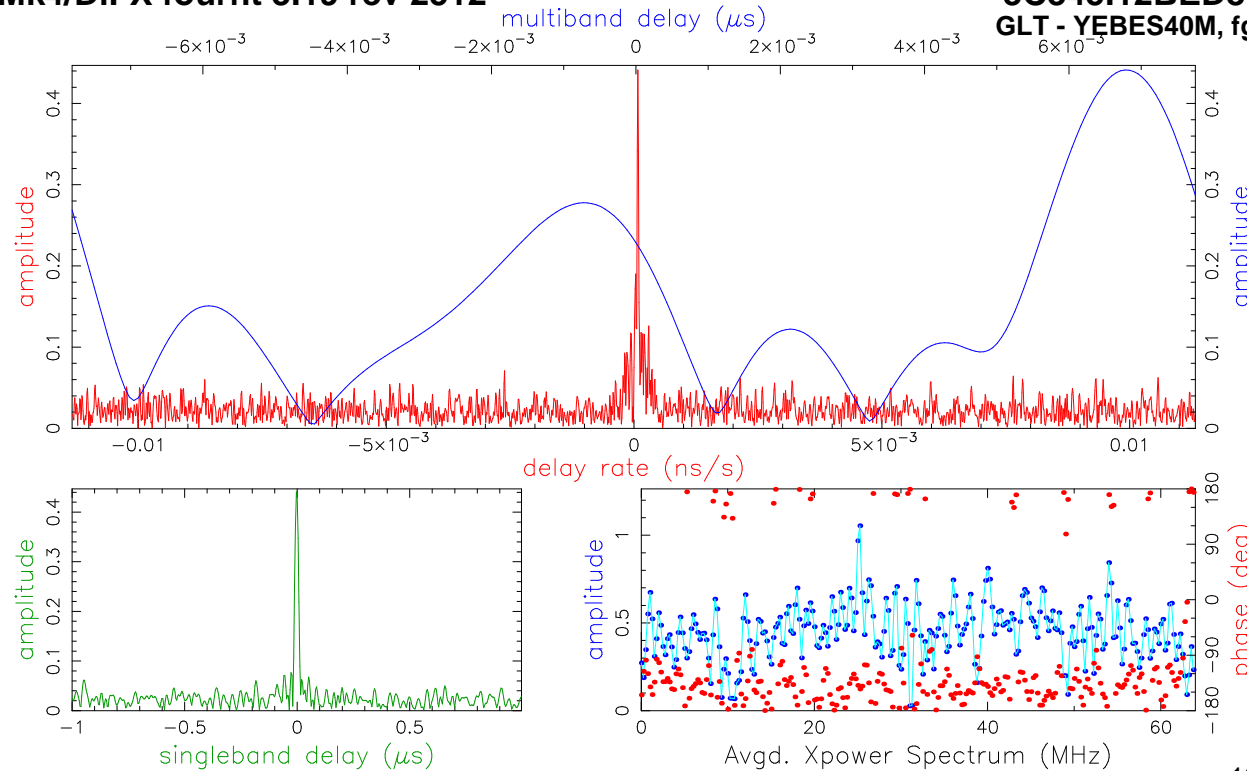


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



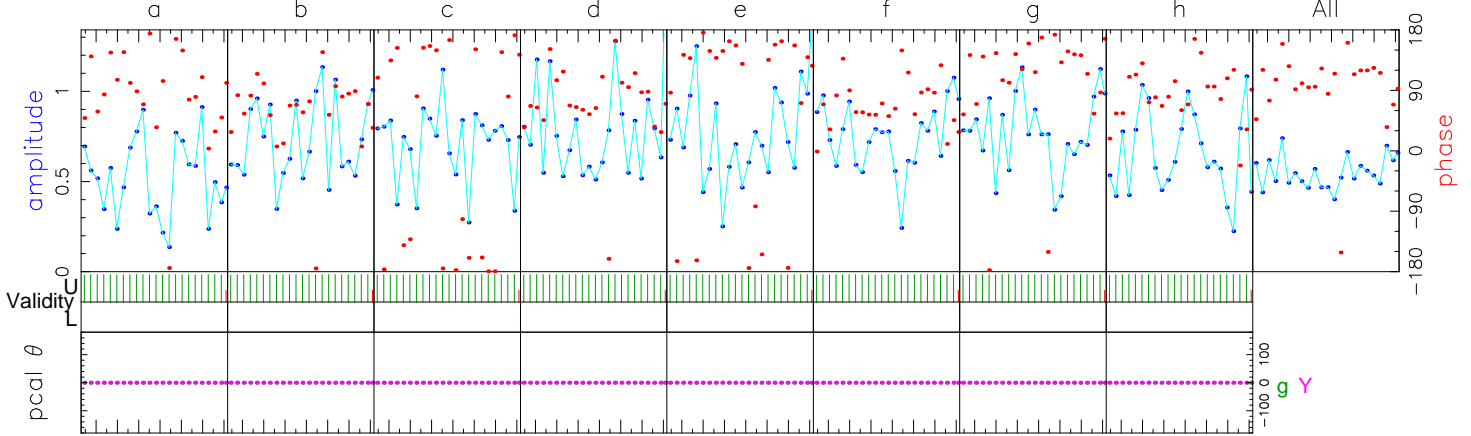
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	167.6	158.2	-106.1	164.2	-131.0	127.2	-154.6	134.0	Phase	-177.7
g	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.1	Ampl.	0.4
Y	258.7	257.1	256.4	255.5	256.3	256.9	257.1	330.5	Sbd box	257.1
g	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
Y	0	0	0	0	0	0	0	0	PC freqs	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.27657262473E+03		Apriori delay (usec)		-2.27656679922E+03		Resid mbdelay (usec)		-5.82551E-03	+/- 7.3E-05
Sband delay (usec)	-2.27656655447E+03		Apriori clock (usec)		-8.3558588E-07		Resid sbdelay (usec)		2.44750E-04	+/- 5.8E-04
Phase delay (usec)	-2.27656680495E+03		Apriori clockrate (us/s)		-1.4500001E-07		Resid phdelay (usec)		-5.72906E-06	+/- 2.5E-07
Delay rate (us/s)	6.75820060661E-01		Apriori rate (us/s)		6.75819982870E-01		Resid rate (us/s)		7.77911E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		3.54163203504E-05		Resid phase (deg)		-177.7	+/- 7.7

ph/seg (deg) 32.9 18.4 Search (2048X32) 0.272 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 34.9 32.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.9 10.9 Inc. seg. avg. 0.306 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.3 18.9 Inc. frq. avg. 0.355 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 142.5 el 51.0 pa -10.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -4969.863 4579.881 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gY.W.167.12BED8



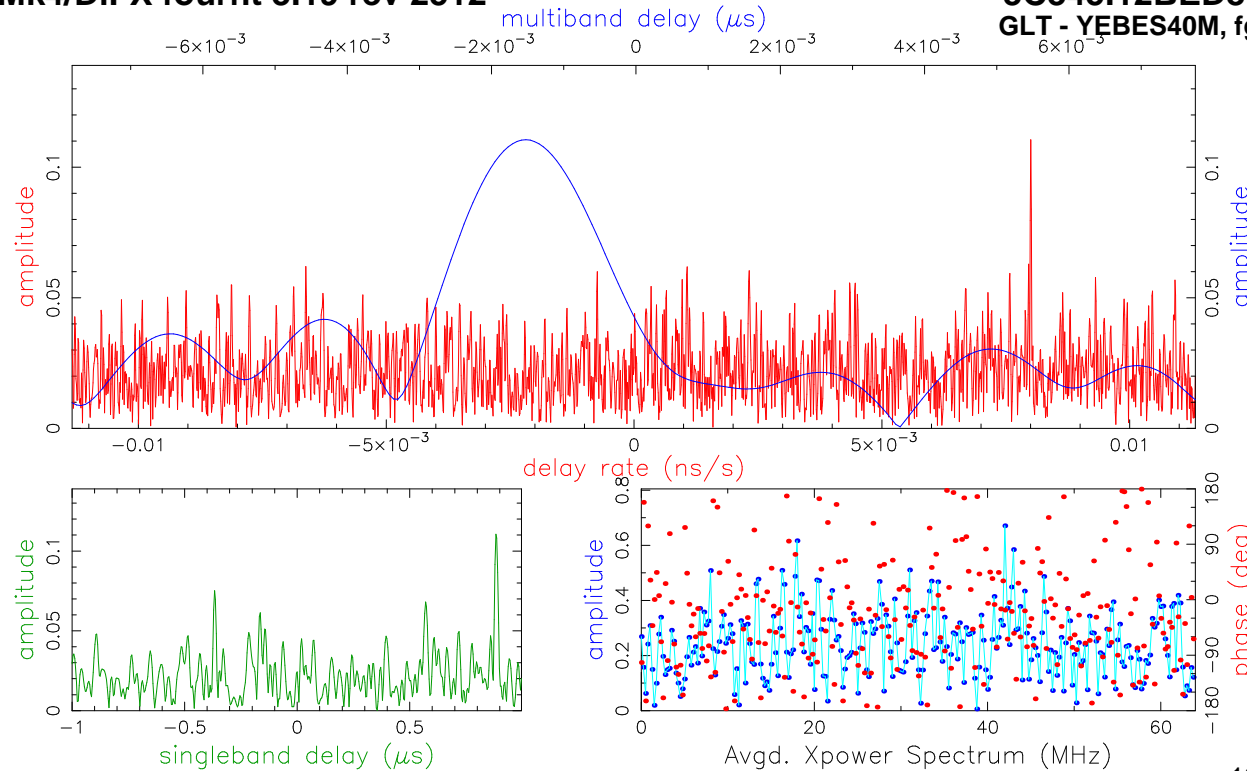
Fringe quality 7
SNR 24.5
Int time 401.218
Amp 0.447
Phase 107.3
PFD 0.0e+00
Delays (us)
SBD -0.002445
MBD 0.006829
Fringe rate (Hz) 0.006583
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165629
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



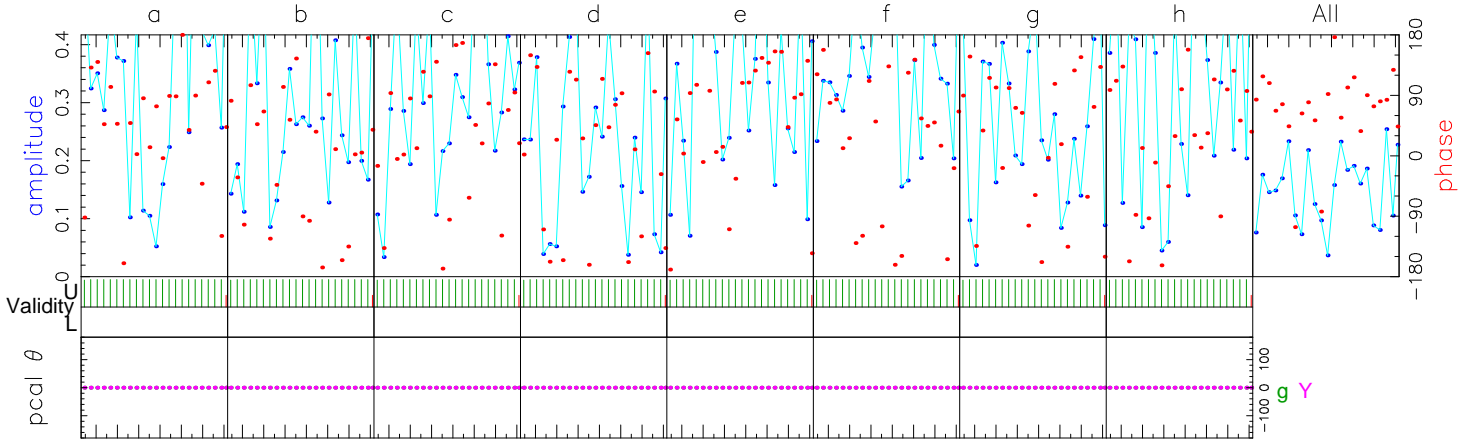
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0			
g	0	0	0	0	0	0	0	0			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
g	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-2.27657559508E+03				-2.27656679922E+03				6.82915E-03	+/- 4.4E-05	
Sband delay (usec)	-2.27656924397E+03				-8.3558588E+00				-2.44475E-03	+/- 3.5E-04	
Phase delay (usec)	-2.27656679577E+03				-1.4500001E-07				3.45887E-06	+/- 1.5E-07	
Delay rate (us/s)	6.75820059293E-01				6.75819982870E-01				7.64229E-08	+/- 6.5E-10	
Total phase (deg)			76.6		3.54163203504E-05				107.3	+/- 4.7	
	RMS	Theor.	Amplitude	0.447 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5		
ph/seg (deg)	36.4	11.2	Search (2048X32)	0.438	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000	
amp/seg (%)	29.4	19.6	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	41.1	6.6	Inc. seg. avg.	0.538	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011	
amp/frq (%)	26.9	11.6	Inc. frq. avg.	0.541	Data rate(Mb/s): 2048				nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

g: az 142.5 el 51.0 pa -10.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -4969.863 4579.881 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gY.W.187.12BED8



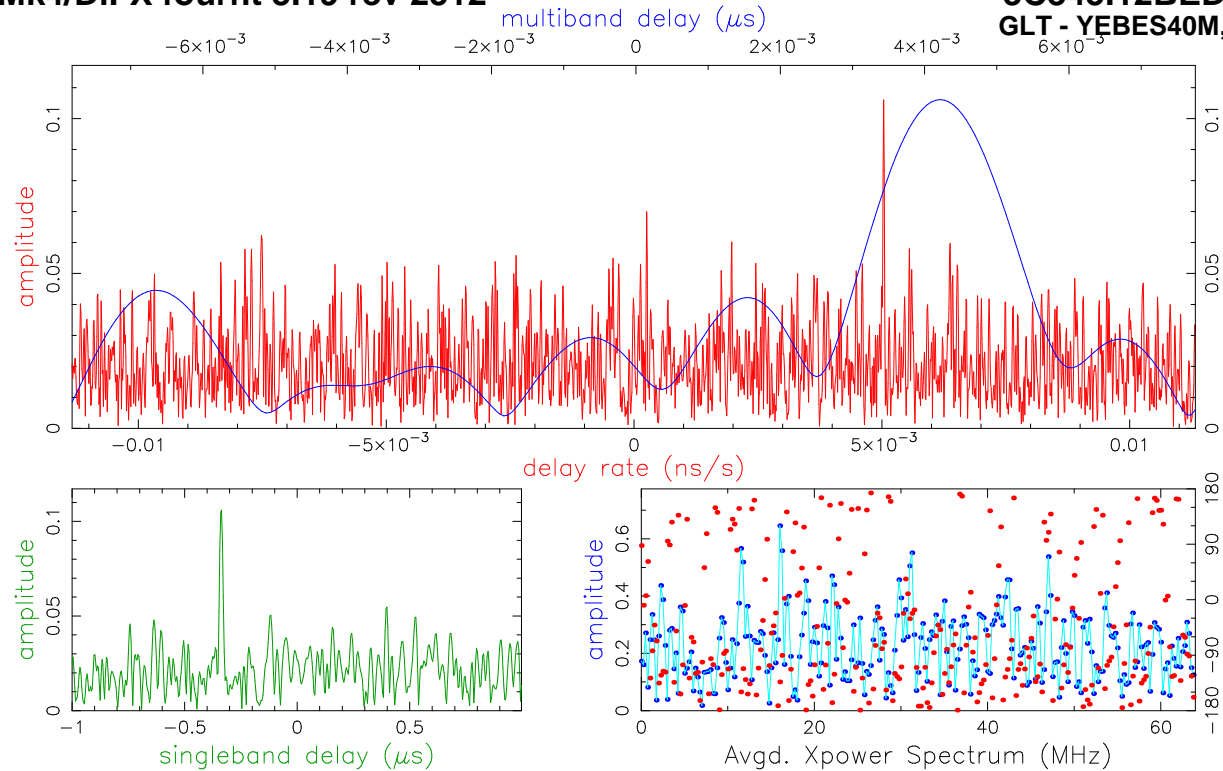
Fringe quality 0
SNR 6.1
Int time 401.178
Amp 0.139
Phase 82.5
PFD 2.0e-01
Delays (us)
SBD 0.884321
MBD -0.001504
Fringe rate (Hz) 0.690327
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165634
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



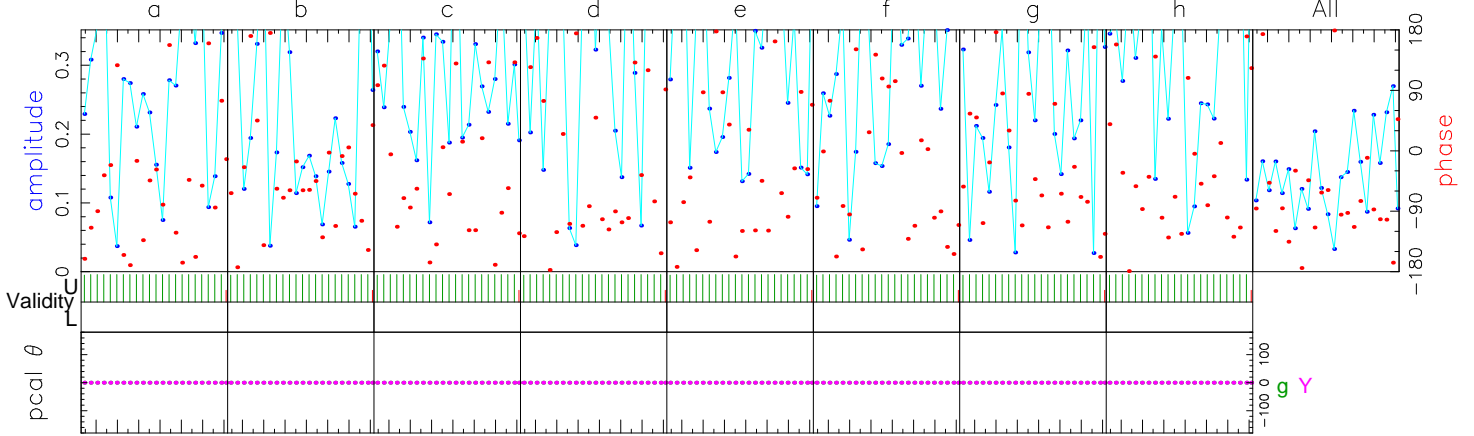
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	96.7	48.1	60.2	110.6	96.3	101.6	85.3	55.2	Phase	82.5
	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	274.4	395.9	162.2	215.2	482.7	446.0	144.4	148.7	Sbd box	483.4
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.27567767796E+03			Apriori delay (usec)	-2.27656679922E+03			Resid mbdelay (usec)	-1.50374E-03	+/- 1.8E-04
Sband delay (usec)	-2.27568247847E+03			Apriori clock (usec)	-8.3558588E+00			Resid sbdelay (usec)	8.84321E-01	+/- 1.4E-03
Phase delay (usec)	-2.27656679656E+03			Apriori clockrate (us/s)	-1.4500001E-07			Resid phdelay (usec)	2.65958E-06	+/- 6.0E-07
Delay rate (us/s)	6.75827996882E-01			Apriori rate (us/s)	6.75819982870E-01			Resid rate (us/s)	8.01401E-06	+/- 2.6E-09
Total phase (deg)		51.8		Apriori accel (us/s/s)	3.54163203504E-05			Resid phase (deg)	82.5	+/- 18.7

ph/seg (deg) 58.9 44.7 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 62.0 78.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.7 26.4 Inc. seg. avg. 0.142 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 23.9 46.1 Inc. frq. avg. 0.133 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
g: az 142.5 el 51.0 pa -10.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -4969.863 4579.881 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gY.W.212.12BED8



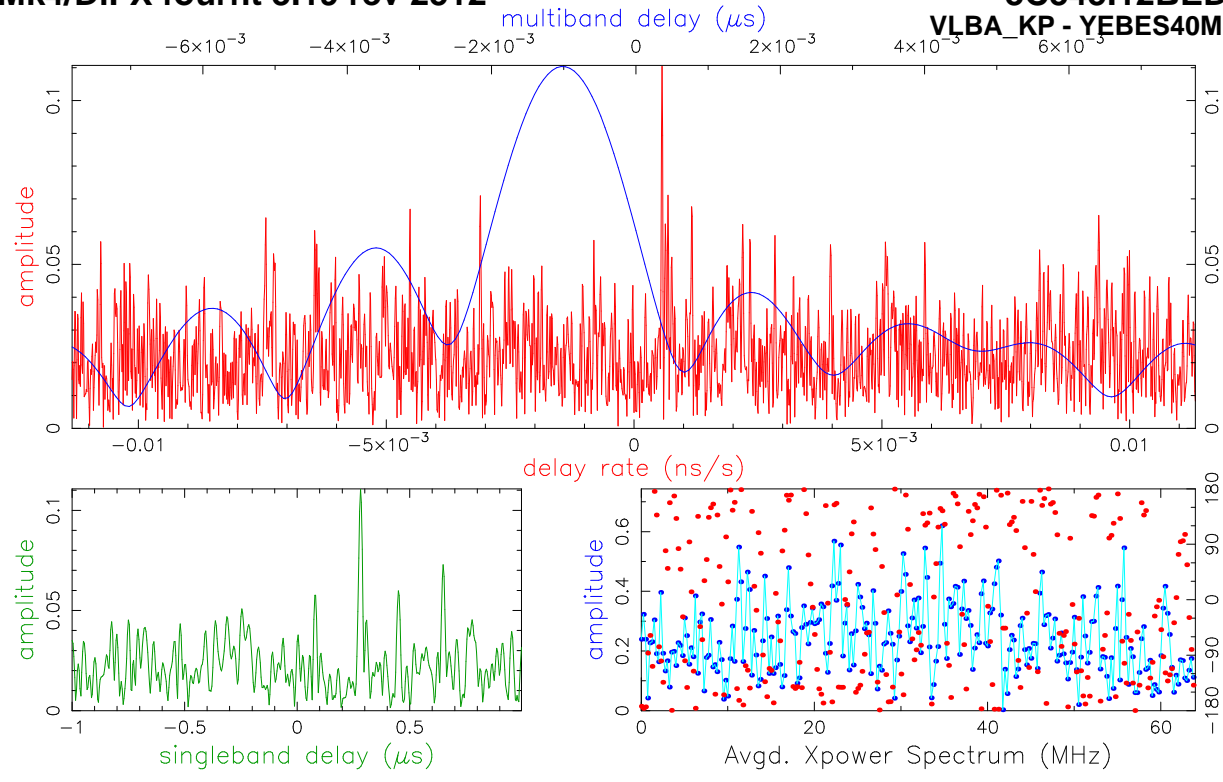
Fringe quality 0
SNR 5.9
Int time 401.218
Amp 0.117
Phase -103.5
PFD 5.8e-01
Delays (us)
SBD -0.337637
MBD 0.004174
Fringe rate (Hz) 0.434228
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165639
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



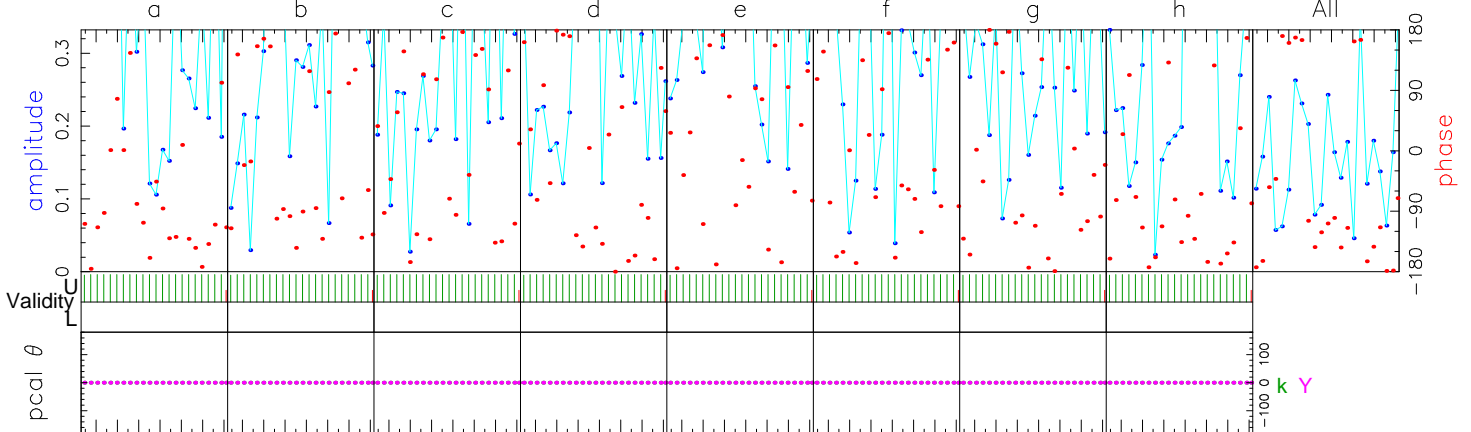
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.8	-88.2	-130.0	-129.8	-110.2	-111.5	-89.0	-91.4	Phase	-103.5
	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	Ampl.	0.1
	271.0	467.1	347.1	442.7	393.0	432.3	498.0	170.5	Sbd box	170.6
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.27690637546E+03		Apriori delay (usec)		-2.27656679922E+03		Resid mbdelay (usec)		4.17376E-03	+/- 1.8E-04
Sband delay (usec)	-2.27690443597E+03		Apriori clock (usec)		-8.3558588E+00		Resid sbdelay (usec)		-3.37637E-01	+/- 1.5E-03
Phase delay (usec)	-2.27656680256E+03		Apriori clockrate (us/s)		-1.4500001E-07		Resid phdelay (usec)		-3.33618E-06	+/- 6.3E-07
Delay rate (us/s)	6.75825023830E-01		Apriori rate (us/s)		6.75819982870E-01		Resid rate (us/s)		5.04096E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		3.54163203504E-05		Resid phase (deg)		-103.5	+/- 19.4

ph/seg (deg) 51.5 46.5 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 63.5 81.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 19.2 27.4 Inc. seg. avg. 0.117 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 32.8 47.9 Inc. frq. avg. 0.108 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
g: az 142.5 el 51.0 pa -10.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -4969.863 4579.881 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gY.W.230.12BED8



Fringe quality 0
SNR 6.1
Int time 401.317
Amp 0.111
Phase -145.9
PFD 3.0e-01
Delays (us)
SBD 0.281845
MBD -0.001015
Fringe rate (Hz)
0.048607
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
2020:086:165628
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



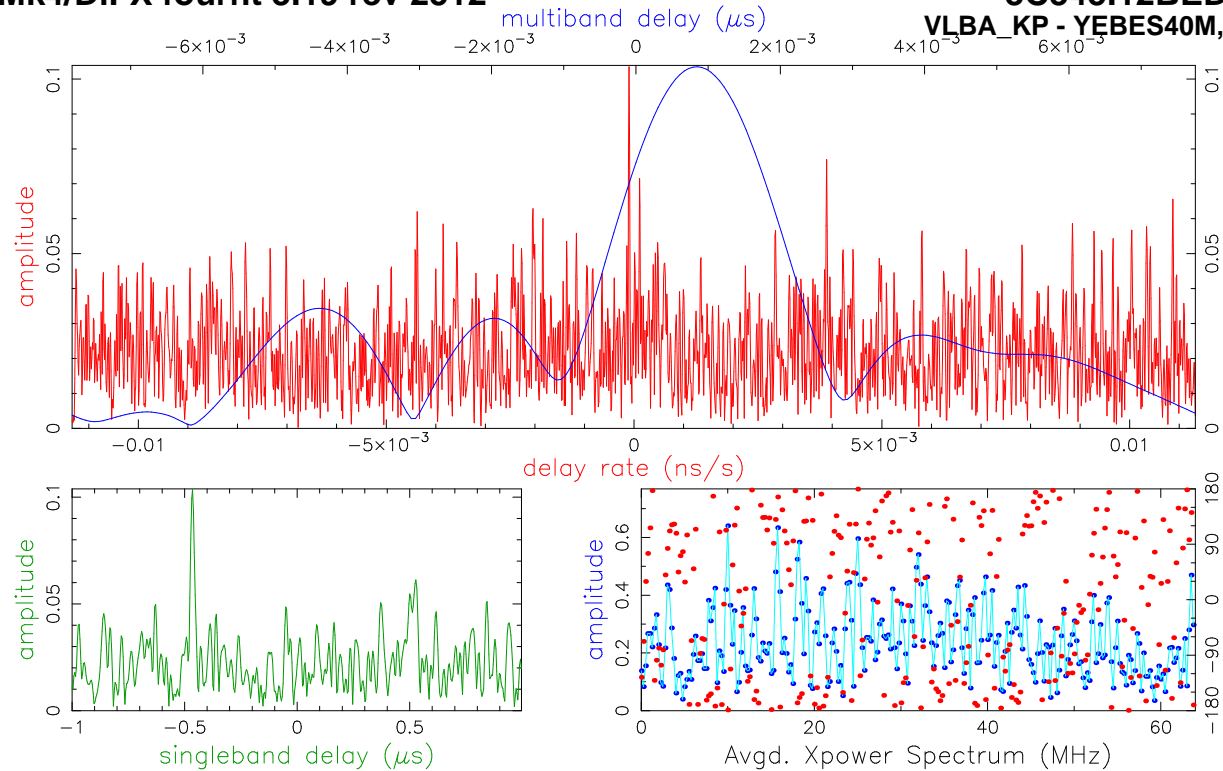
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-119.9	-150.8	-179.0	-146.8	163.5	-167.6	-127.6	-131.5	Phase	-145.9
	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	Ampl.	0.1
	330.8	82.6	157.0	12.6	289.2	7.0	185.8	373.0	Sbd box	329.2
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.34478603340E+03	Apriori delay (usec)	-7.34506626815E+03	Resid mbdelay (usec)	-1.01525E-03	+/-	1.8E-04
Sband delay (usec)	-7.34478442290E+03	Apriori clock (usec)	-1.0053901E+01	Resid sbdelay (usec)	2.81845E-01	+/-	1.4E-03
Phase delay (usec)	-7.34506627286E+03	Apriori clockrate (us/s)	-4.1457899E-07	Resid phdelay (usec)	-4.70565E-06	+/-	6.1E-07
Delay rate (us/s)	1.50371867584E+00	Apriori rate (us/s)	1.50371811156E+00	Resid rate (us/s)	5.64278E-07	+/-	2.6E-09
Total phase (deg)	-267.7	Apriori accel (us/s/s)	3.03133681505E-05	Resid phase (deg)	-145.9	+/-	18.9

ph/seg (deg)	46.0	Theor.	45.3	Amplitude	0.111 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	83.6		79.2	Search (2048X32)	0.108	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	29.9		26.7	Inc. seg. avg.	0.120	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	32.2		46.7	Inc. frq. avg.	0.108	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

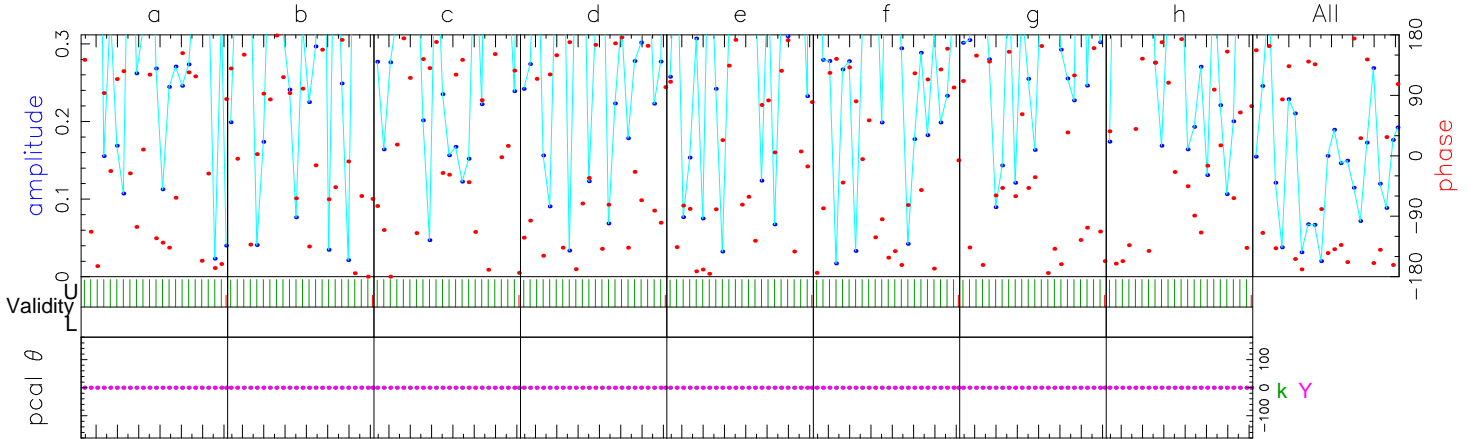
k: az 60.1 el 32.1 pa -73.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -11154.627 1298.420 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kY.W.182.12BED8



Fringe quality 0
SNR 5.7
Int time 401.317
Amp 0.104
Phase -172.5
PFD 9.6e-01
Delays (us)
SBD -0.465728
MBD 0.000858
Fringe rate (Hz)
-0.008735
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
2020:086:165632
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



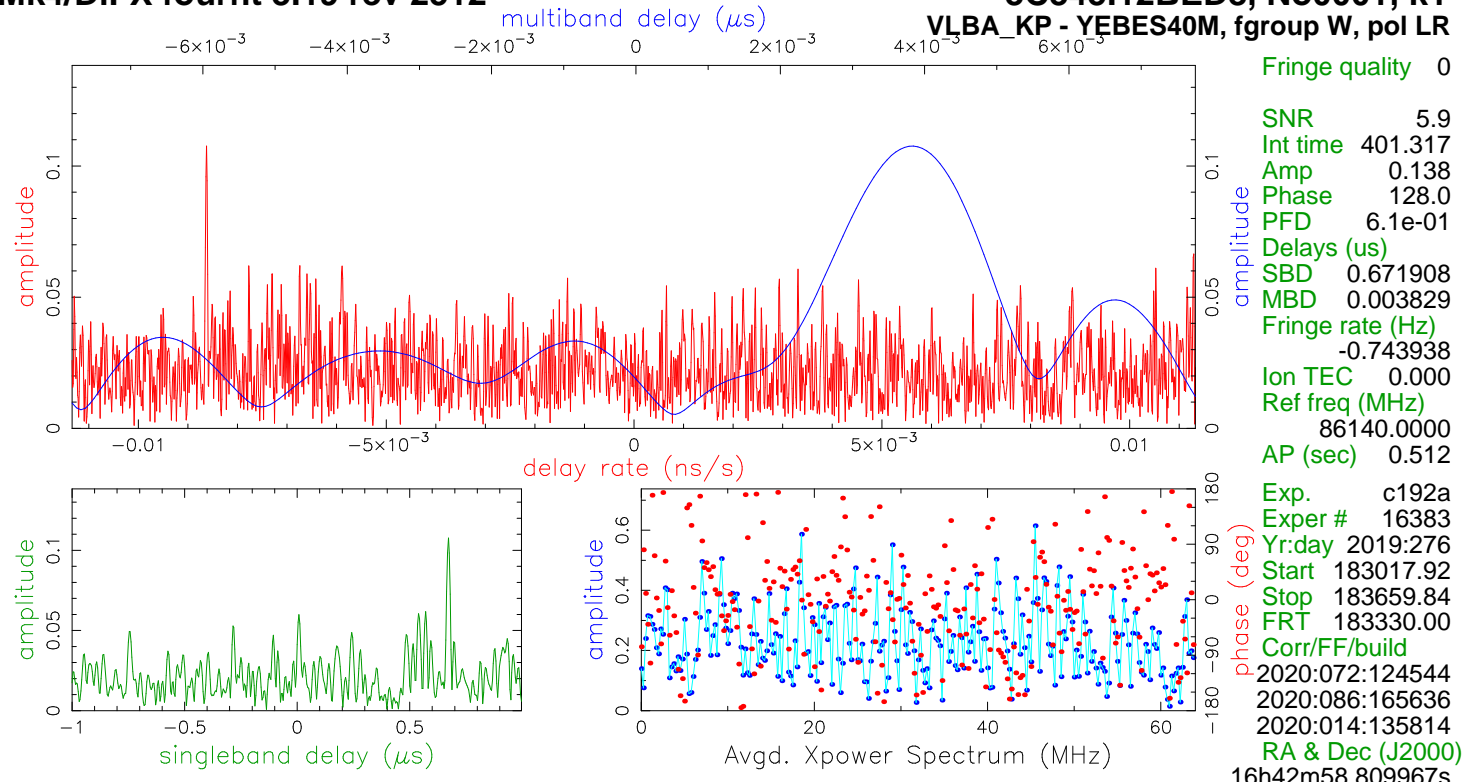
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-165.0	164.6	178.0	-149.9	-165.9	-172.3	-170.9	167.1	Phase	-172.5
	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	Ampl.	0.1
	49.4	57.4	166.4	490.2	366.6	509.0	194.7	294.6	Sbd box	137.8
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	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)	-7.34553416042E+03					-7.34506626815E+03			Resid mbdelay (usec)	8.57730E-04 +/- 1.9E-04
Sband delay (usec)	-7.34553199615E+03					-1.0053901E+01			Resid sbdelay (usec)	-4.65728E-01 +/- 1.5E-03
Phase delay (usec)	-7.34506627371E+03					-4.1457899E-07			Resid phdelay (usec)	-5.56209E-06 +/- 6.5E-07
Delay rate (us/s)	1.50371801016E+00					1.50371811156E+00			Resid rate (us/s)	-1.01400E-07 +/- 2.8E-09
Total phase (deg)			-294.3			3.03133681505E-05			Resid phase (deg)	-172.5 +/- 20.1

ph/seg (deg) 65.1 48.3 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 89.0 84.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.6 28.5 Inc. seg. avg. 0.108 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.3 49.7 Inc. frq. avg. 0.095 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 60.1 el 32.1 pa -73.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -11154.627 1298.420 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kY.W.200.12BED8

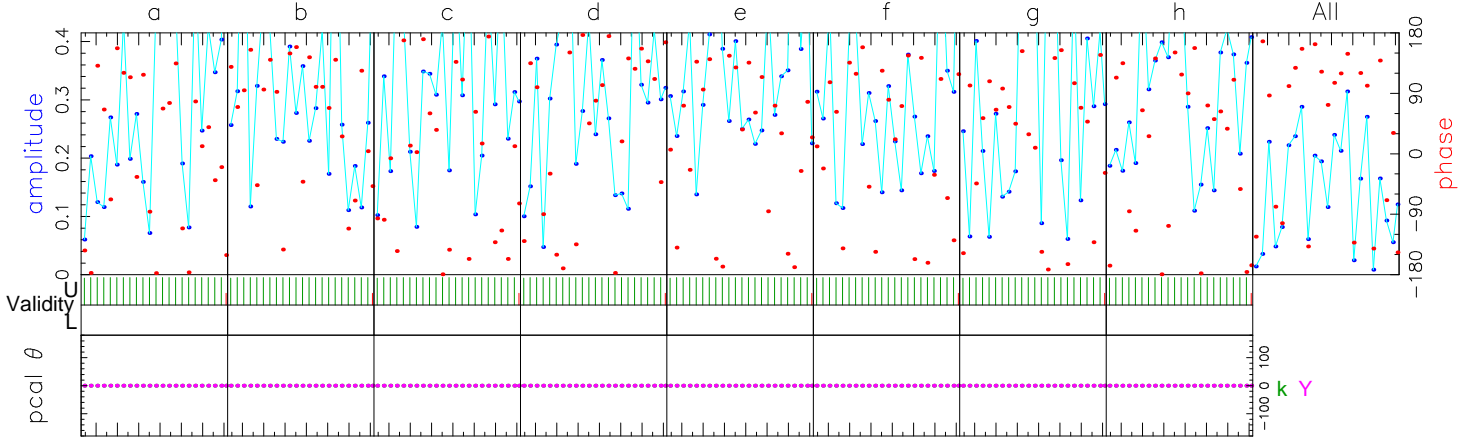
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, kY

VLBA_KP - YEBES40M, fgroup W, pol LR



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
91.6	109.4	-169.6	141.1	135.3	126.0	109.0	122.8	122.8	Phase	128.0
0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
328.3	429.2	283.2	464.4	337.9	15.7	258.8	21.9	21.9	Sbd box	429.0
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-7.34439056412E+03		Apriori delay (usec)	-7.34506626815E+03	Resid mbdelay (usec)	3.82903E-03	+/-	1.8E-04		
Sband delay (usec)	-7.34439436015E+03		Apriori clock (usec)	-1.0053901E+01	Resid sbdelay (usec)	6.71908E-01	+/-	1.5E-03		
Phase delay (usec)	-7.34506626402E+03		Apriori clockrate (us/s)	-4.1457899E-07	Resid phdelay (usec)	4.12774E-06	+/-	6.3E-07		
Delay rate (us/s)	1.50370947517E+00		Apriori rate (us/s)	1.50371811156E+00	Resid rate (us/s)	-8.63639E-06	+/-	2.7E-09		
Total phase (deg)		6.2	Apriori accel (us/s/s)	3.03133681505E-05	Resid phase (deg)	128.0	+/-	19.4		

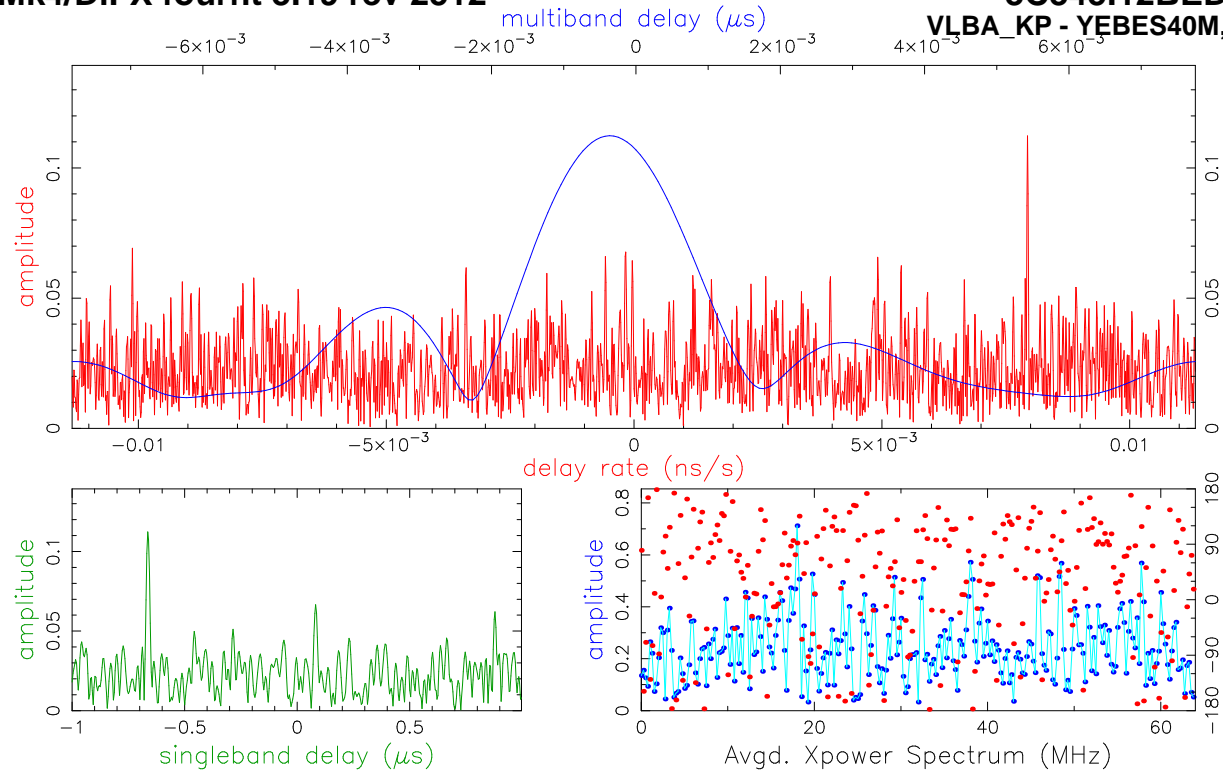
	RMS	Theor.	Amplitude	0.138 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	75.8	46.6	Search (2048X32)	0.106	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	95.9	81.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	32.1	27.5	Inc. seg. avg.	0.144	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	26.5	48.0	Inc. frq. avg.	0.139	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 60.1 el 32.1 pa -73.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -11154.627 1298.420 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kY.W.218.12BED8

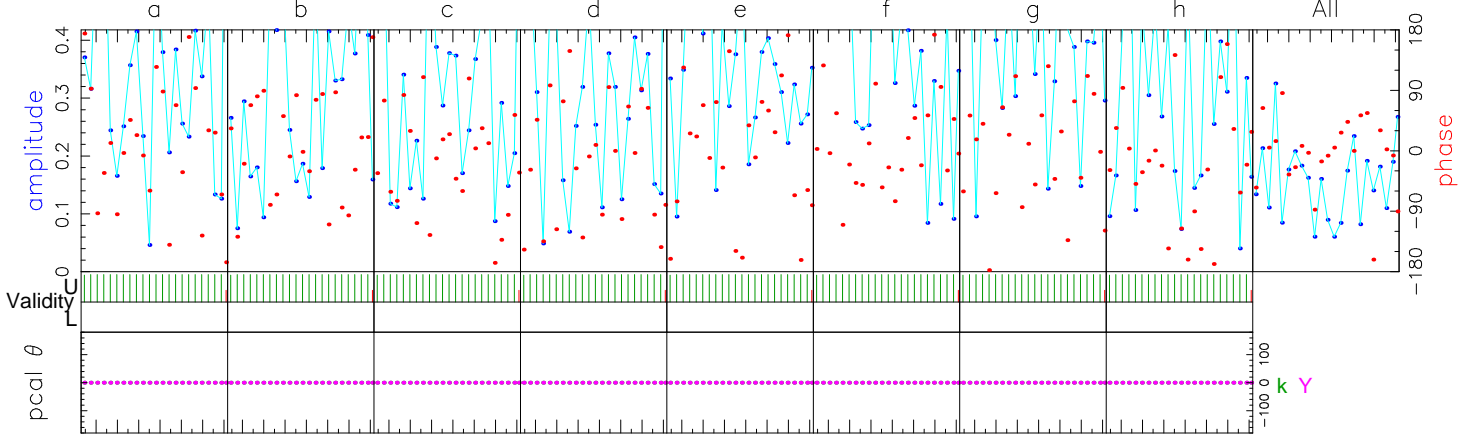
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, kY
VLBA_KP - YEBES40M, fgroup W, pol RL



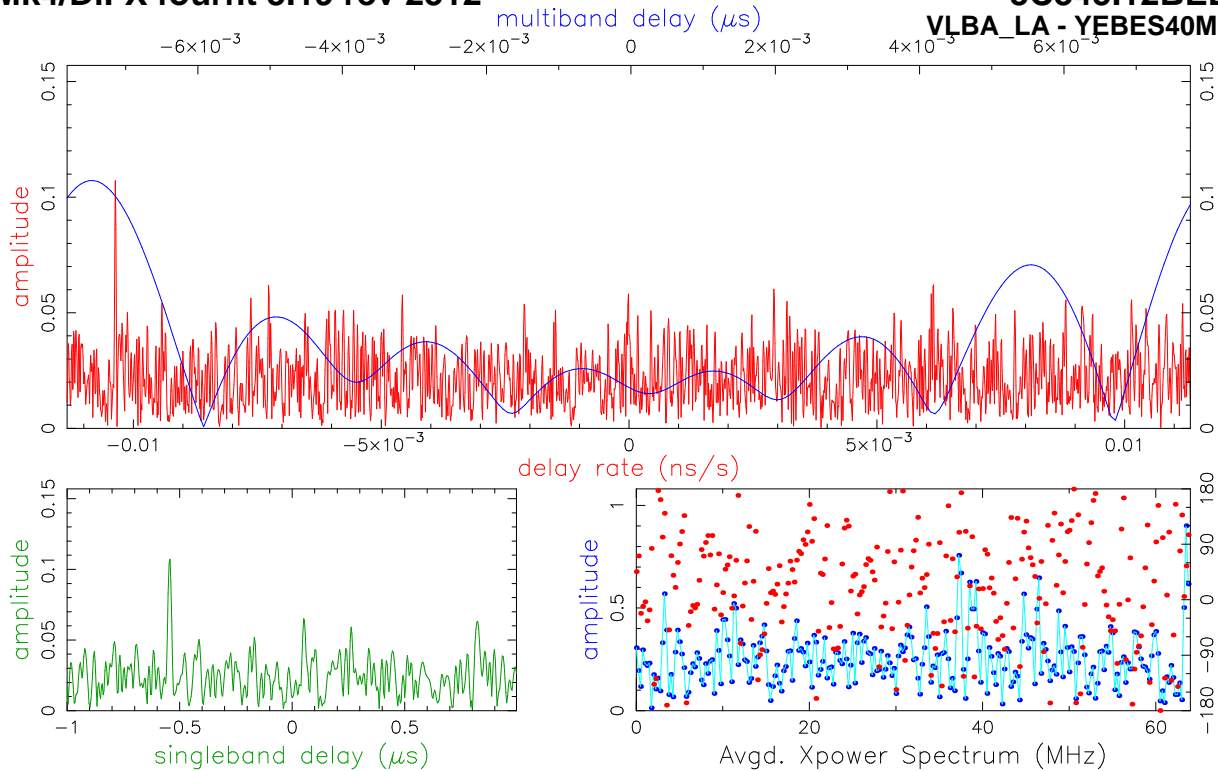
Fringe quality 0
SNR 6.2
Int time 401.317
Amp 0.139
Phase 6.2
PFD 1.6e-01
Delays (us)
SBD -0.663172
MBD -0.000336
Fringe rate (Hz) 0.685122
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165640
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
	35.9	0.4	-2.5	-4.7	35.1	-5.8	20.2	-4.9	Phase	6.2
	0.1	0.2	0.2	0.1	0.1	0.3	0.2	0.1	Ampl.	0.1
	187.8	279.8	302.1	231.0	95.0	86.6	87.7	411.1	Sbd box	87.2
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.34572285394E+03		Apriori delay (usec)		-7.34506626815E+03		Resid mbdelay (usec)		-3.35791E-04	+/- 1.8E-04
Sband delay (usec)	-7.34572944015E+03		Apriori clock (usec)		-1.0053901E+01		Resid sbdelay (usec)		-6.63172E-01	+/- 1.4E-03
Phase delay (usec)	-7.34506626795E+03		Apriori clockrate (us/s)		-4.1457899E-07		Resid phdelay (usec)		2.01277E-07	+/- 6.0E-07
Delay rate (us/s)	1.50372606514E+00		Apriori rate (us/s)		1.50371811156E+00		Resid rate (us/s)		7.95358E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.03133681505E-05		Resid phase (deg)		6.2	+/- 18.5

ph/seg (deg) 53.9 44.5 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.5 77.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 20.0 26.2 Inc. seg. avg. 0.147 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 42.0 45.8 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
k: az 60.1 el 32.1 pa -73.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -11154.627 1298.420 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kY.W.234.12BED8

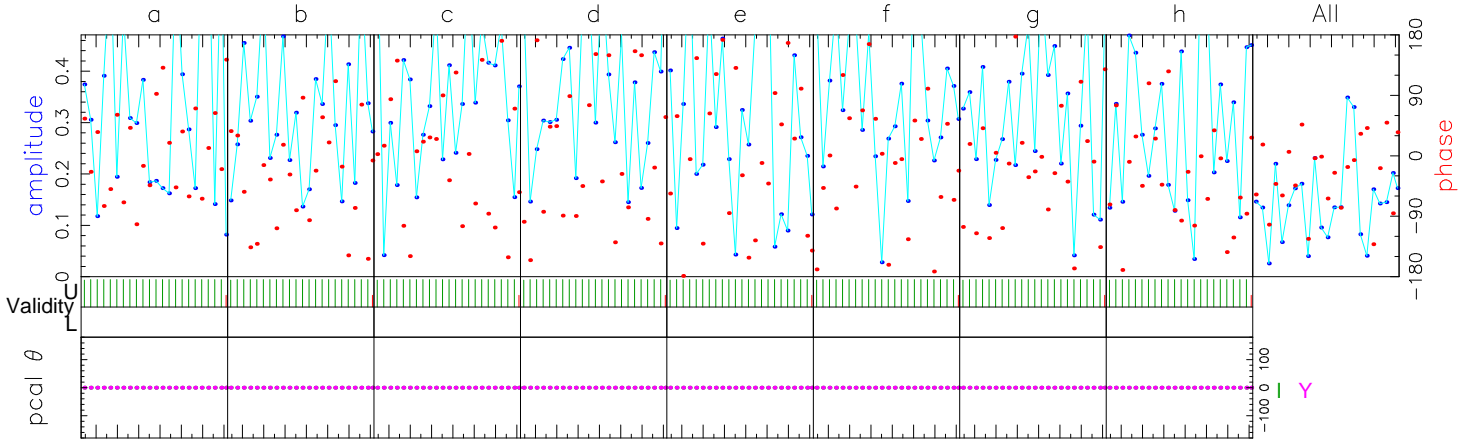


Fringe quality 0

SNR 5.9
 Int time 401.317
 Amp 0.157
 Phase -21.5
 PFD 5.4e-01
 Delays (us)
 SBD -0.544267
 MBD -0.007496
 Fringe rate (Hz)
 -0.893818
 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
 2020:086:165638
 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



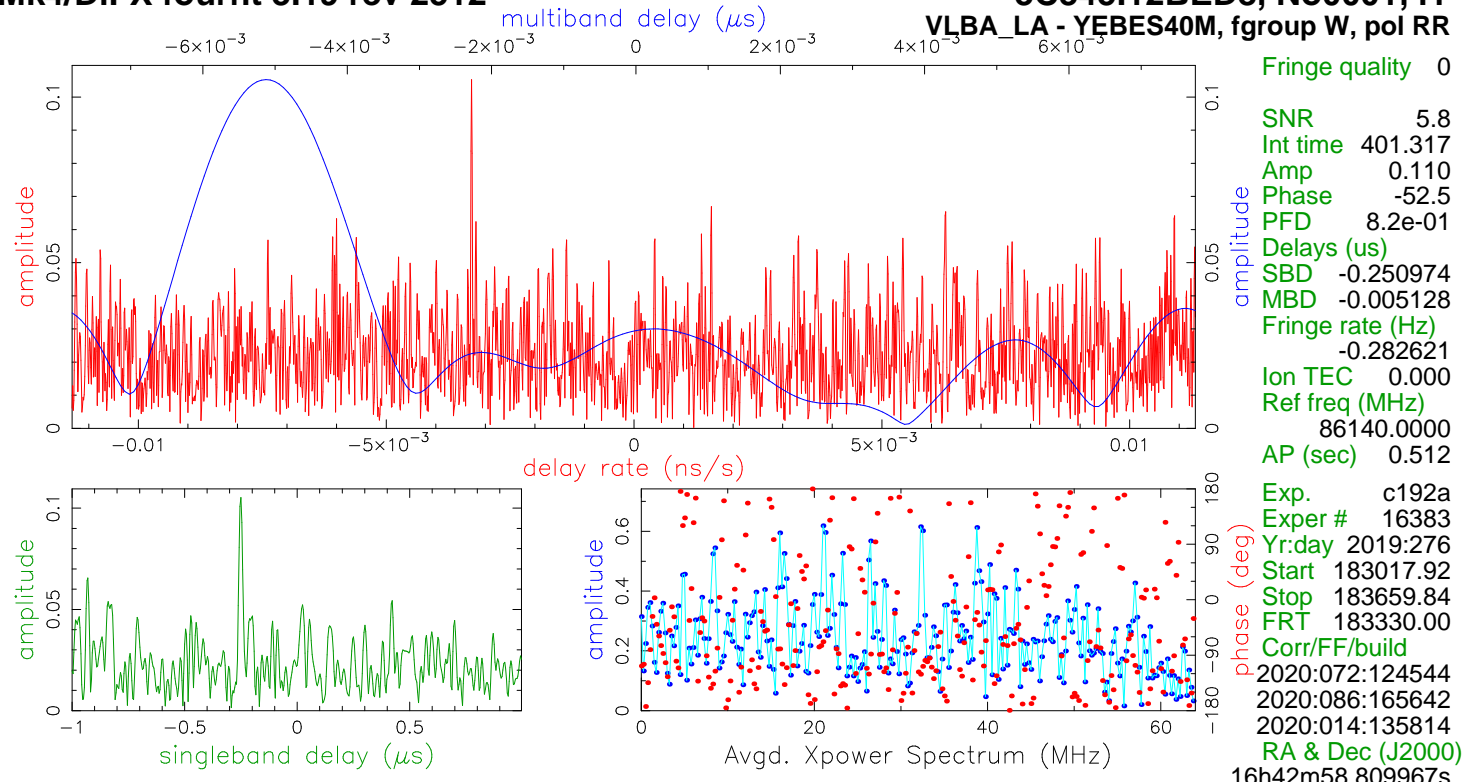
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.3	-21.3	-30.0	-65.5	-31.0	14.6	-14.4	-30.0	Phase	-21.5
	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	117.7	22.0	297.5	144.3	137.3	4.8	497.5	64.5	Sbd box	117.7
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.61886721125E+03	Apriori delay (usec)	-5.61832846513E+03	Resid mbdelay (usec)	-7.49612E-03	+/-	1.8E-04
Sband delay (usec)	-5.61887273213E+03	Apriori clock (usec)	-1.0392235E+01	Resid sbdelay (usec)	-5.44267E-01	+/-	1.5E-03
Phase delay (usec)	-5.61832846582E+03	Apriori clockrate (us/s)	-5.7147201E-07	Resid phdelay (usec)	-6.94704E-07	+/-	6.2E-07
Delay rate (us/s)	1.42967462842E+00	Apriori rate (us/s)	1.42968500476E+00	Resid rate (us/s)	-1.03763E-05	+/-	2.7E-09
Total phase (deg)	-16.6	Apriori accel (us/s/s)	2.51222621771E-05	Resid phase (deg)	-21.5	+/-	19.3

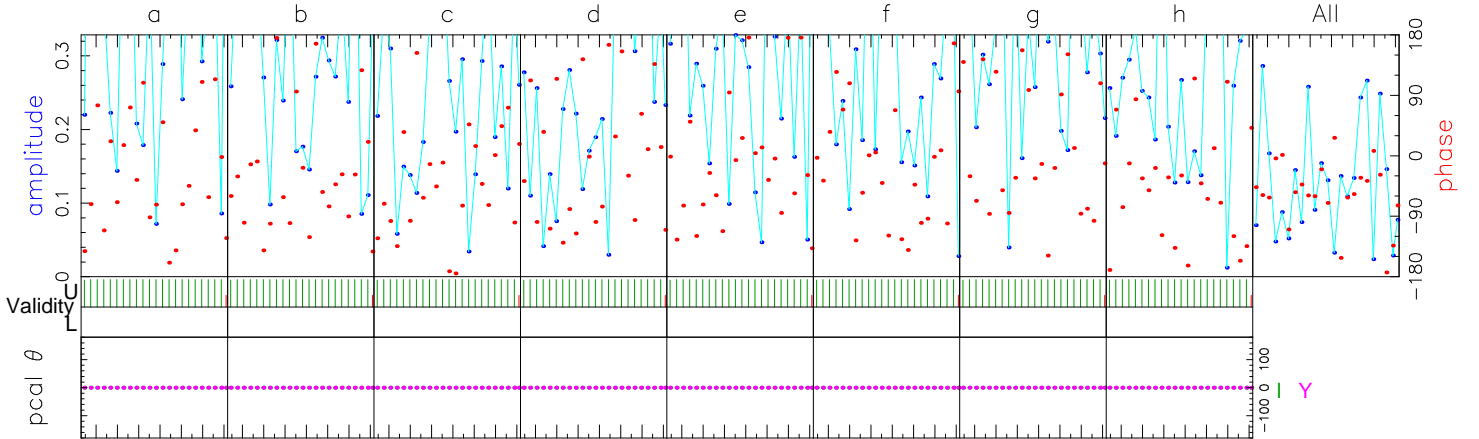
ph/seg (deg)	52.9	Theor.	46.3	Amplitude	0.157 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	84.0		80.9	Search (2048X32)	0.104	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000			
ph/frq (deg)	24.3		27.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
amp/frq (%)	51.9		47.7	Inc. seg. avg.	0.163	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011			
				Inc. frq. avg.	0.146	Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 63.9 el 37.8 pa -72.0 Y: az 280.2 el 62.9 pa 76.6 u, v (fr/asec) -10610.991 1328.915 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IY.W.226.12BED8



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



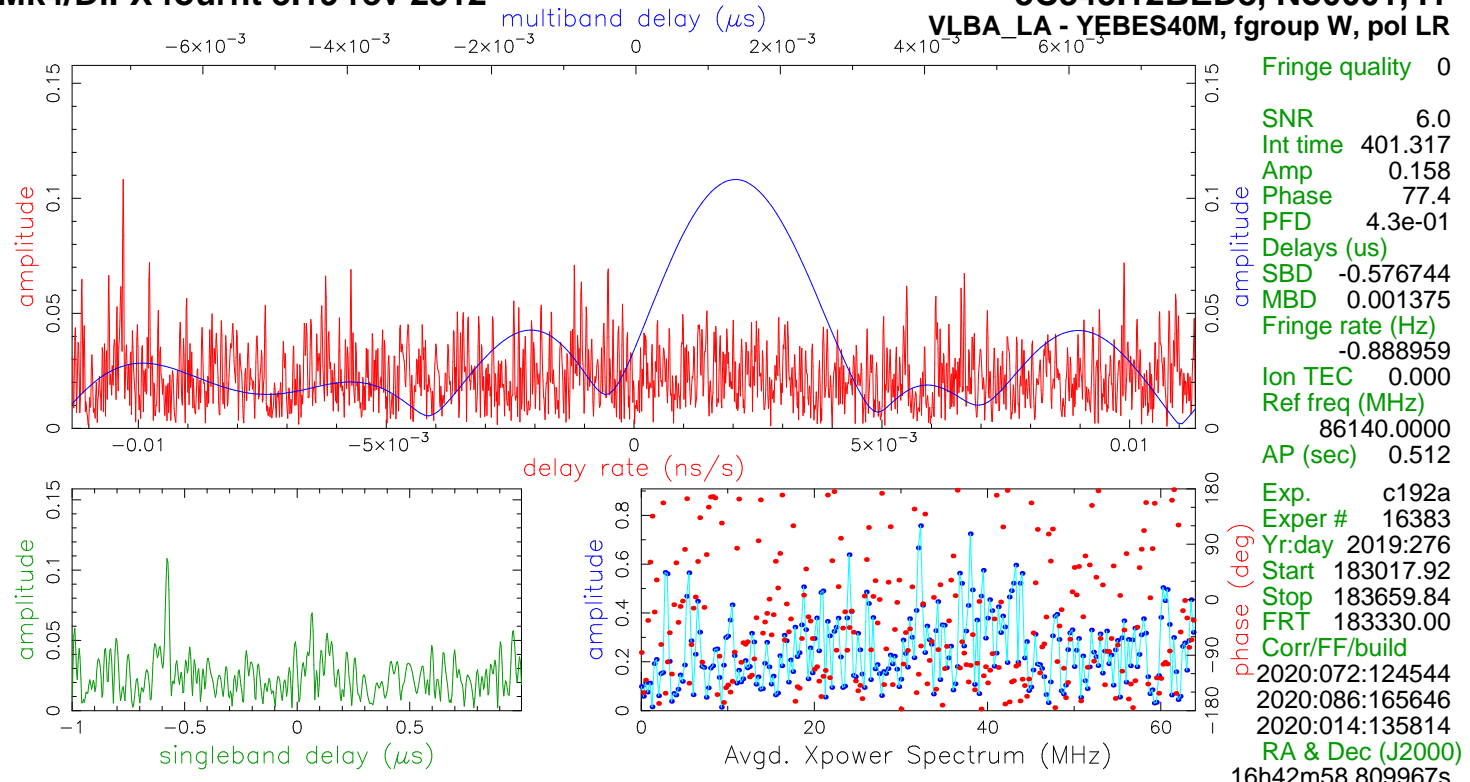
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.8	-60.8	-54.4	-36.8	-70.0	-34.1	-37.0	-64.1	Phase	-52.5
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	429.0	192.6	310.1	329.5	365.4	44.0	315.6	229.0	Sbd box	192.8
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-5.61858359363E+03	Apriori delay (usec)	-5.61832846513E+03	Resid mbdelay (usec)	-5.12850E-03	+/-	1.9E-04
Sband delay (usec)	-5.61857943888E+03	Apriori clock (usec)	-1.0392235E+01	Resid sbdelay (usec)	-2.50974E-01	+/-	1.5E-03
Phase delay (usec)	-5.61832846682E+03	Apriori clockrate (us/s)	-5.7147201E-07	Resid phdelay (usec)	-1.69233E-06	+/-	6.4E-07
Delay rate (us/s)	1.42968172381E+00	Apriori rate (us/s)	1.42968500476E+00	Resid rate (us/s)	-3.28095E-06	+/-	2.7E-09
Total phase (deg)		Apriori accel (us/s/s)	2.51222621771E-05	Resid phase (deg)	-52.5	+/-	19.8

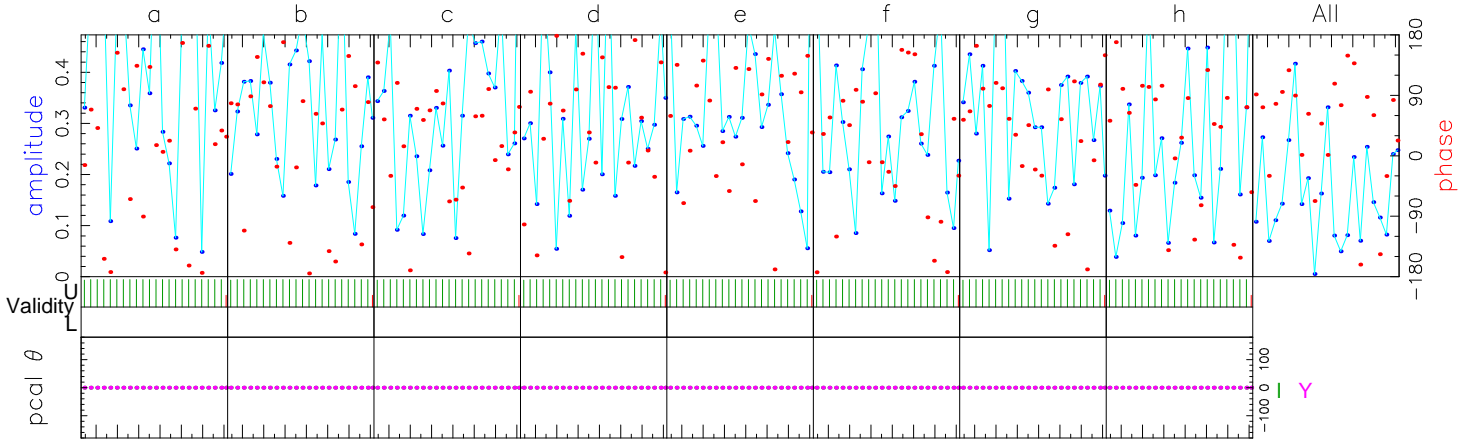
ph/seg (deg)	48.5	Theor.	47.4	Amplitude	0.110 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	79.9	Search (2048X32)	0.101	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.3	Inc. seg. avg.	0.102	Inc. frq. avg.	0.100	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.9	Inc. frq. avg.	0.100			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

I: az 63.9 el 37.8 pa -72.0 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10610.991 1328.915 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IY.W.243.12BED8



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

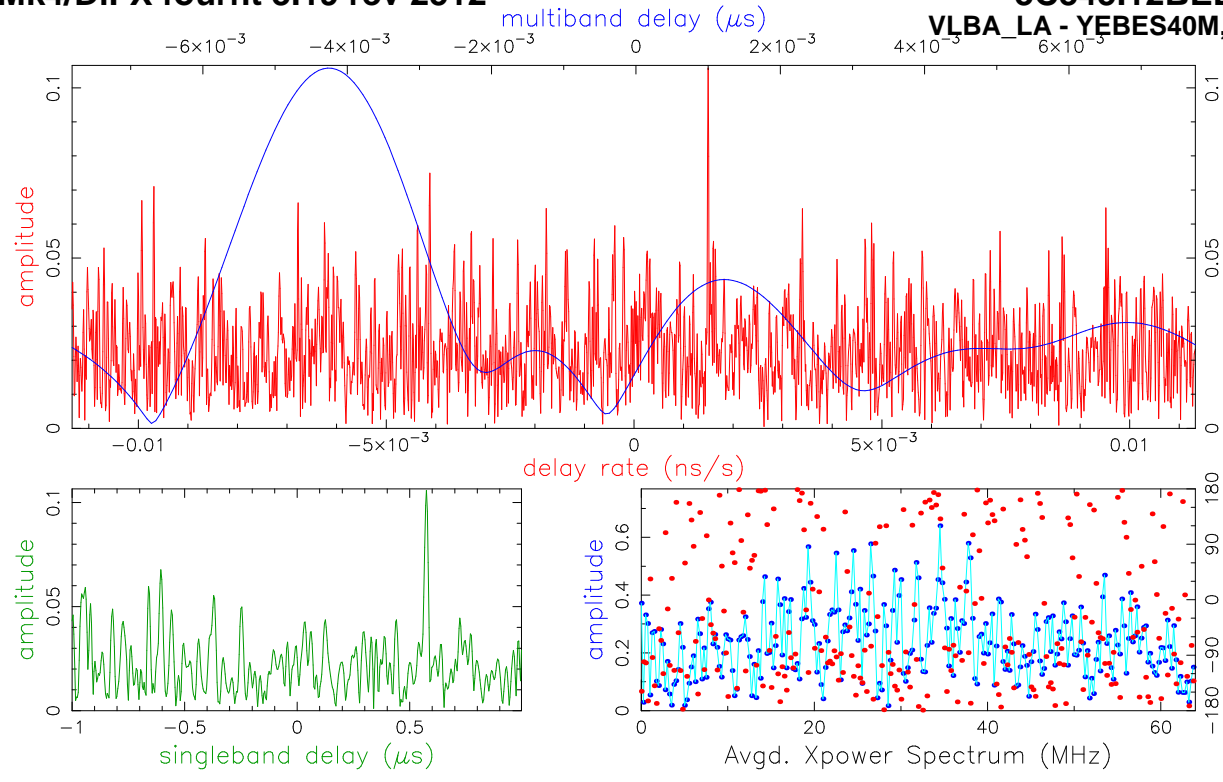


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
88.6	99.4	43.7	72.1	70.5	121.2	70.2	89.6	89.6	Phase	77.4
0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
505.8	242.3	38.3	436.1	448.1	404.7	395.6	511.0	511.0	Sbd box	109.4
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.61890521497E+03		Apriori delay (usec)	-5.61832846513E+03	Resid mbdelay (usec)	1.37516E-03	+/-	1.8E-04		
Sband delay (usec)	-5.61890520913E+03		Apriori clock (usec)	-1.0392235E+01	Resid sbdelay (usec)	-5.76744E-01	+/-	1.4E-03		
Phase delay (usec)	-5.61832846263E+03		Apriori clockrate (us/s)	-5.7147201E-07	Resid phdelay (usec)	2.49469E-06	+/-	6.2E-07		
Delay rate (us/s)	1.42967468483E+00		Apriori rate (us/s)	1.42968500476E+00	Resid rate (us/s)	-1.03199E-05	+/-	2.7E-09		
Total phase (deg)		-277.7	Apriori accel (us/s/s)	2.51222621771E-05	Resid phase (deg)	77.4	+/-	19.1		

	RMS	Theor.	Amplitude	0.158 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	68.2	45.9	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	104.3	80.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.6	27.1	Inc. seg. avg.	0.180	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.6	47.3	Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

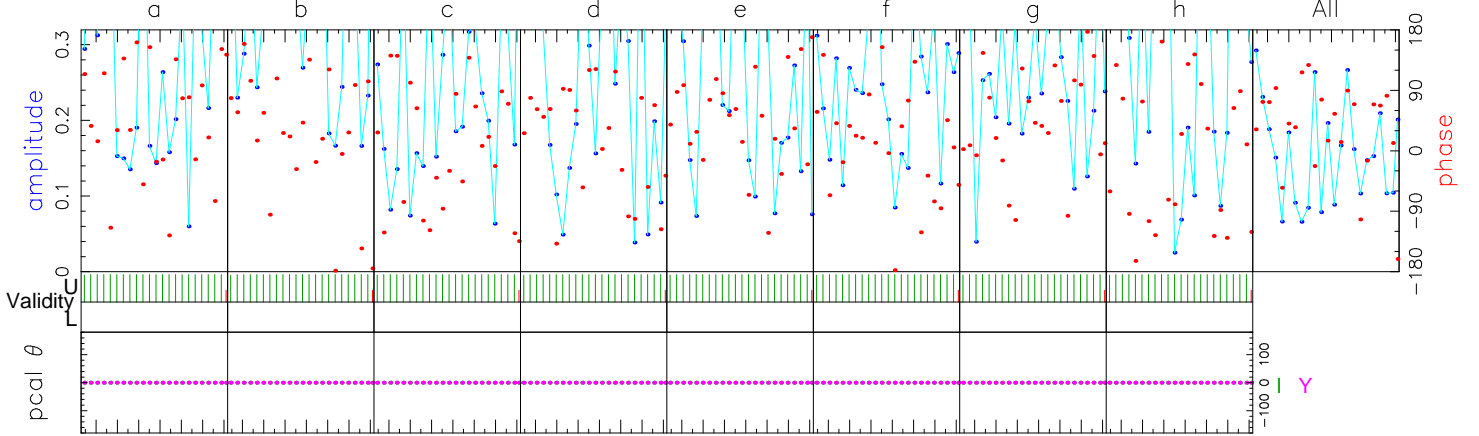
I: az 63.9 el 37.8 pa -72.0 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10610.991 1328.915 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IY.W.264.12BED8



Fringe quality 0
 SNR 5.8
 Int time 401.317
 Amp 0.107
 Phase 49.1
 PFD 8.2e-01
 Delays (us)
 SBD 0.573946
 MBD -0.004264
 Fringe rate (Hz)
 0.128687
 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
 2020:086:165650
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

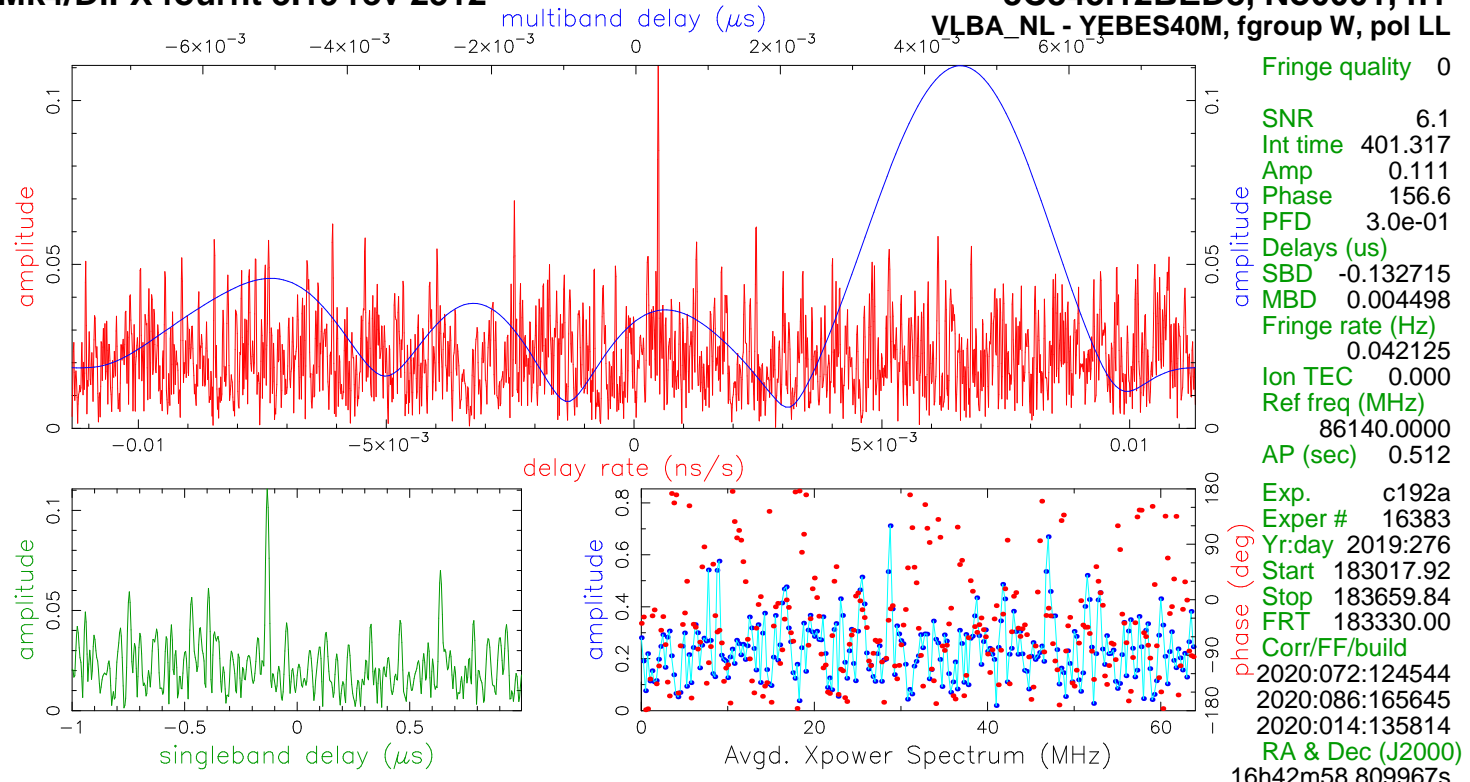
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



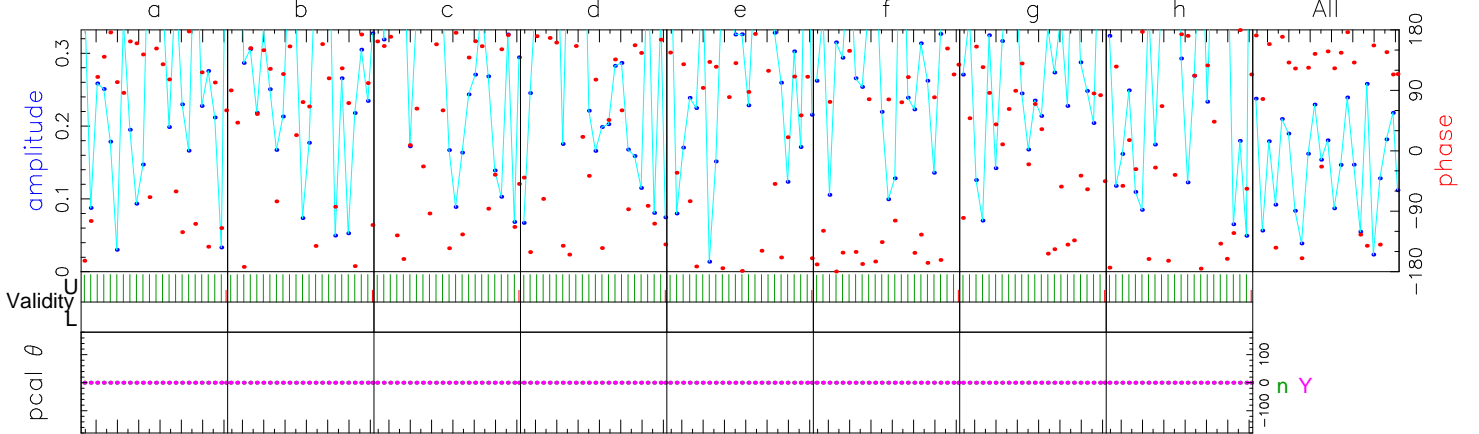
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	65.9	55.7	-16.8	45.0	53.2	28.2	40.4	99.1		49.1
	0.1	0.2	0.0	0.2	0.2	0.1	0.1	0.1		0.1
	372.4	8.3	106.6	206.9	454.6	433.6	401.7	300.0		403.9
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
I	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	-5.61775460418E+03		Apriori delay (usec)		-5.61832846513E+03		Resid mbdelay (usec)		-4.26405E-03	+/- 1.9E-04
Sband delay (usec)	-5.61775451913E+03		Apriori clock (usec)		-1.0392235E+01		Resid sbdelay (usec)		5.73946E-01	+/- 1.5E-03
Phase delay (usec)	-5.61832846354E+03		Apriori clockrate (us/s)		-5.7147201E-07		Resid phdelay (usec)		1.58474E-06	+/- 6.4E-07
Delay rate (us/s)	1.42968649869E+00		Apriori rate (us/s)		1.42968500476E+00		Resid rate (us/s)		1.49392E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.51222621771E-05		Resid phase (deg)		49.1	+/- 19.8

	RMS	Theor.	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.0	47.4	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	78.4	82.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	35.9	28.0	Inc. seg. avg.	0.117	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	48.0	48.8	Inc. frq. avg.	0.102	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 63.9 el 37.8 pa -72.0 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10610.991 1328.915 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IY.W.287.12BED8



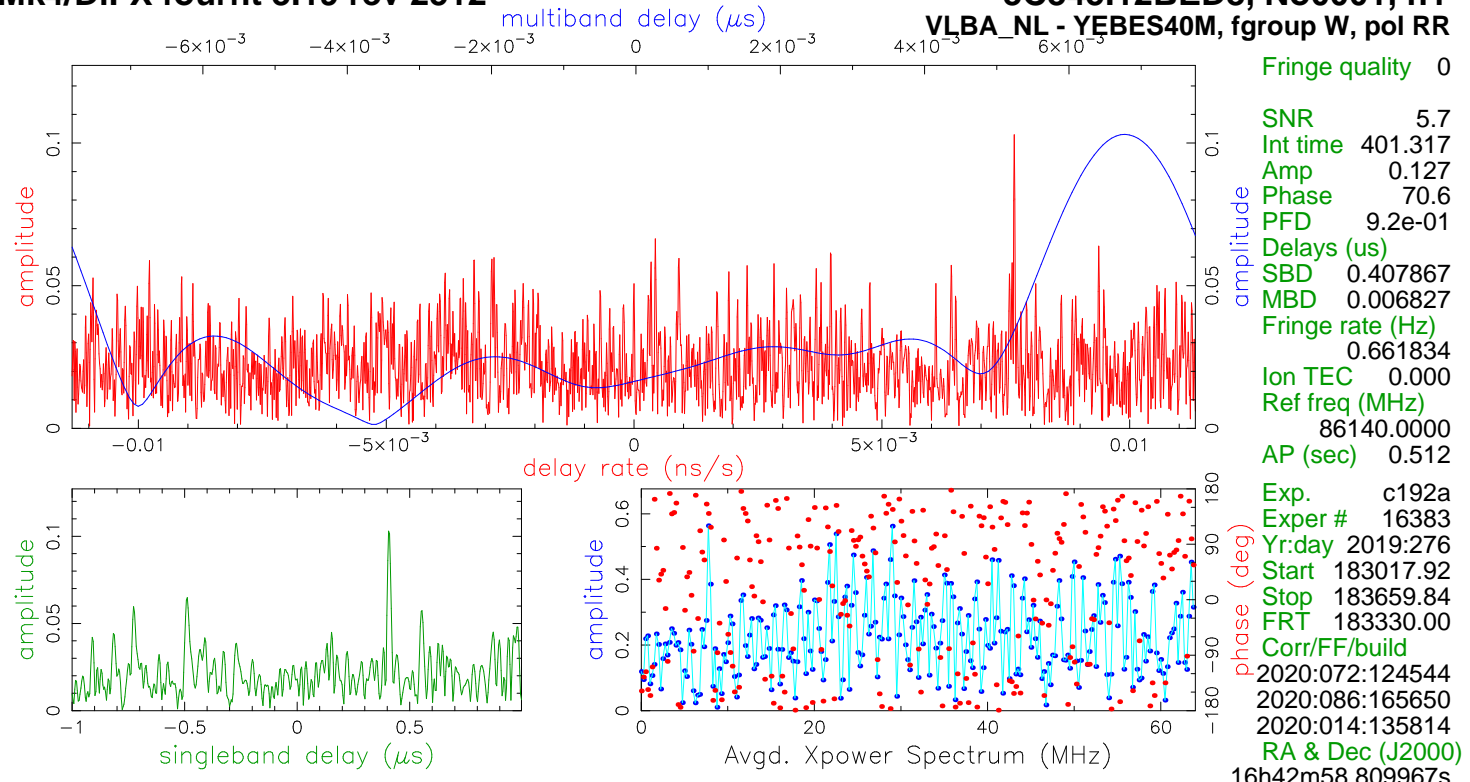
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



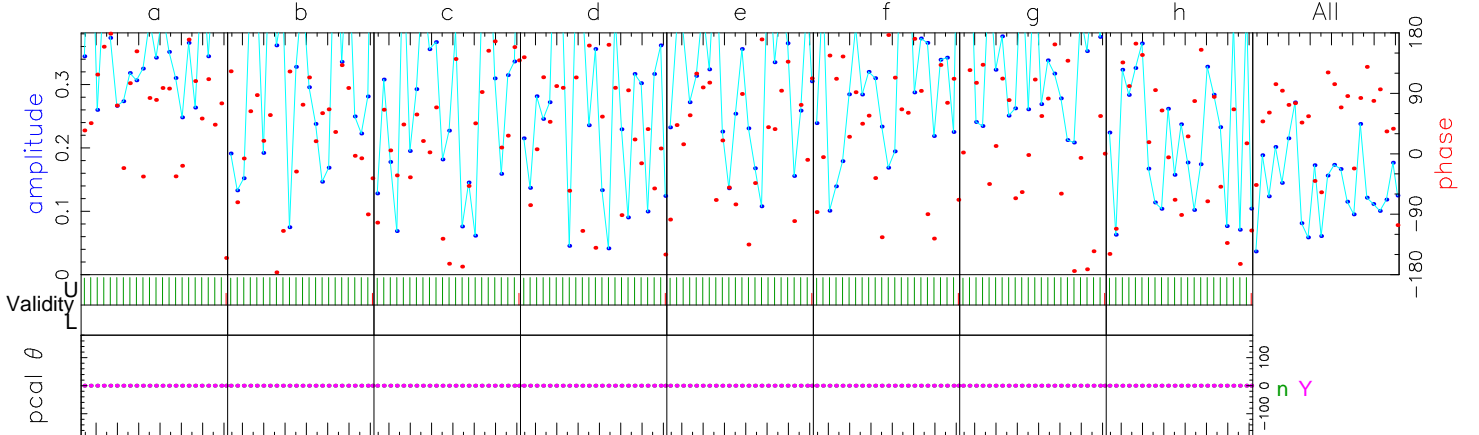
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	169.7	127.1	178.7	-178.9	138.3	166.6	53.8	172.5	Phase	156.6
	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	471.1	6.2	113.3	244.5	223.8	223.5	205.8	194.9	Sbd box	223.0
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.23108311484E+03	Apriori delay (usec)	-2.23094698734E+03	Resid mbdelay (usec)	4.49751E-03	+/-	1.8E-04
Sband delay (usec)	-2.23107970259E+03	Apriori clock (usec)	1.6823357E+01	Resid sbdelay (usec)	-1.32715E-01	+/-	1.4E-03
Phase delay (usec)	-2.23094698229E+03	Apriori clockrate (us/s)	-8.5776492E-08	Resid phdelay (usec)	5.04937E-06	+/-	6.1E-07
Delay rate (us/s)	1.24174276081E+00	Apriori rate (us/s)	1.24174227179E+00	Resid rate (us/s)	4.89029E-07	+/-	2.6E-09
Total phase (deg)	-19.7	Apriori accel (us/s/s)	1.31303277888E-05	Resid phase (deg)	156.6	+/-	18.9

ph/seg (deg)	54.6	Theor.	45.3	Amplitude	0.111 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	71.0		79.1	Search (2048X32)	0.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	47.2		26.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	39.8		46.7	Inc. seg. avg.	0.114	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.113	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



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

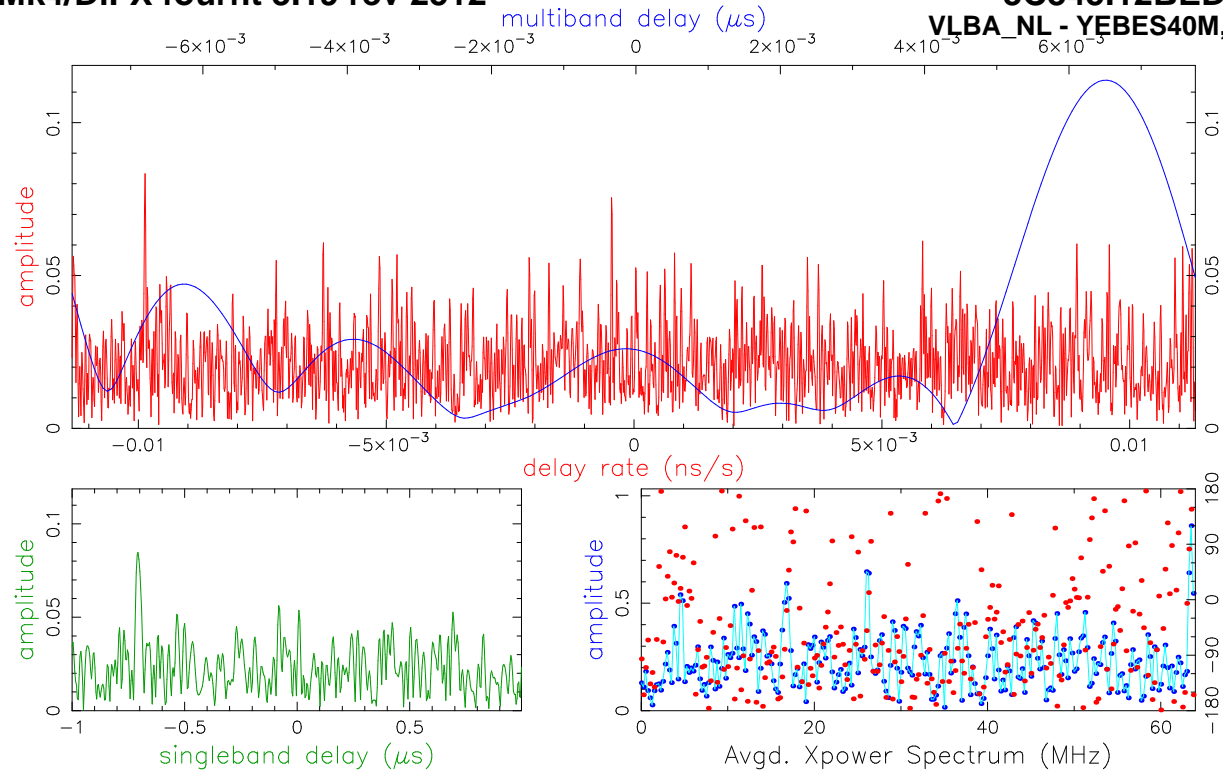


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
84.6	54.6	78.1	77.2	50.7	74.4	67.9	80.8	80.8	Phase	70.6
0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	Ampl.	0.1
361.9	420.8	174.4	503.1	418.7	144.6	262.9	118.3	118.3	Sbd box	361.4
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.23053391076E+03		Apriori delay (usec)	-2.23094698734E+03	Resid mbdelay (usec)	6.82658E-03	+/-	1.9E-04		
Sband delay (usec)	-2.23053911984E+03		Apriori clock (usec)	1.6823357E+01	Resid sbdelay (usec)	4.07867E-01	+/-	1.5E-03		
Phase delay (usec)	-2.23094698506E+03		Apriori clockrate (us/s)	-8.5776492E-08	Resid phdelay (usec)	2.27779E-06	+/-	6.5E-07		
Delay rate (us/s)	1.24174995502E+00		Apriori rate (us/s)	1.24174227179E+00	Resid rate (us/s)	7.68323E-06	+/-	2.8E-09		
Total phase (deg)		-105.6	Apriori accel (us/s/s)	1.31303277888E-05	Resid phase (deg)	70.6	+/-	20.0		

	RMS	Theor.	Amplitude	0.127 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.9	48.0	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.3	83.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	13.4	28.3	Inc. seg. avg.	0.128	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
amp/frq (%)	42.0	49.4	Inc. frq. avg.	0.114	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
					nlags: 256	t_cohere infinite
						ion window (TEC) 0.00 0.00

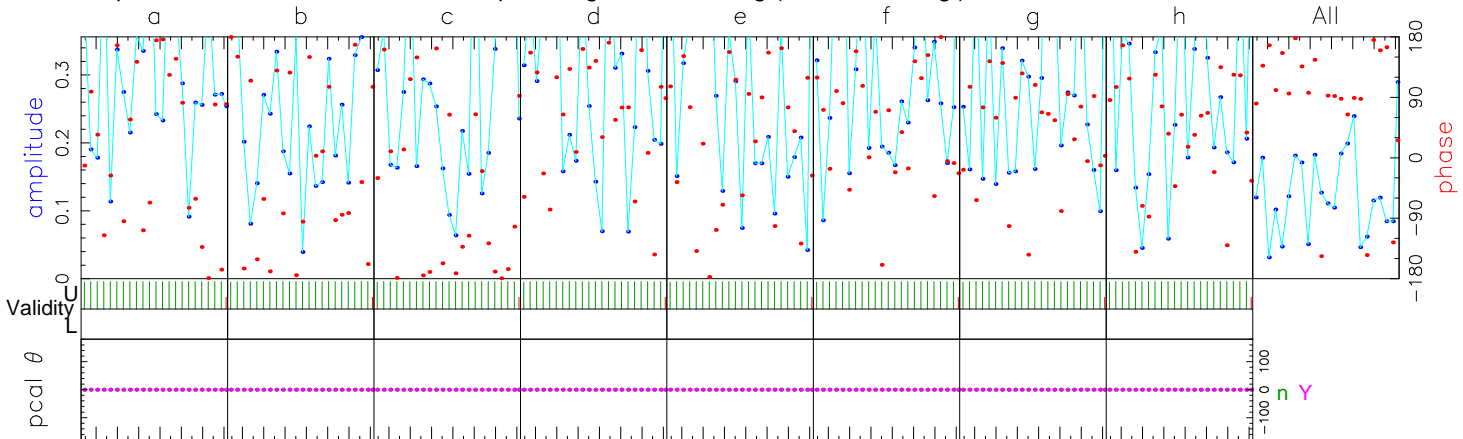
n: az 74.7 el 50.6 pa -69.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9229.806 1082.076 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nY.W.281.12BED8



Fringe quality 0
SNR 4.7
Int time 401.317
Amp 0.119
Phase 122.0
PFD 1.0e+00
Delays (us)
SBD -0.708251
MBD -0.008301
Fringe rate (Hz)
-0.851194
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
2020:086:165654
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

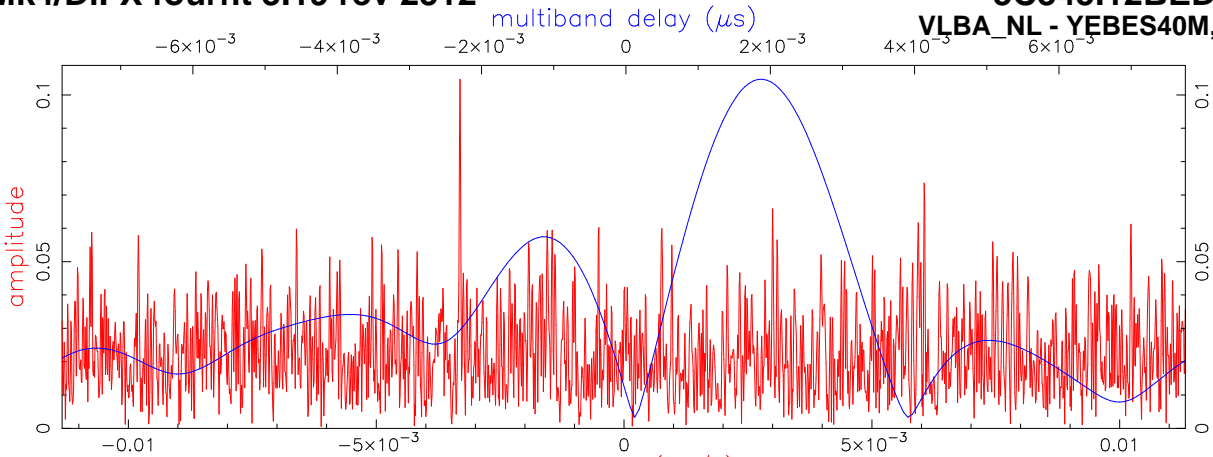


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-174.7	-177.5	179.9	127.8	129.5	80.4	70.8	82.1	Phase	122.0
	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	78.6	259.7	198.9	270.9	386.7	419.3	54.8	94.2	Sbd box	75.7
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -2.23165841312E+03 Apriori delay (usec) -2.23094698734E+03 Resid mbdelay (usec) -8.30078E-03 +/- 2.3E-04
 Sband delay (usec) -2.23165523784E+03 Apriori clock (usec) 1.6823357E+01 Resid sbdelay (usec) -7.08251E-01 +/- 1.9E-03
 Phase delay (usec) -2.23094698341E+03 Apriori clockrate (us/s) -8.5776492E-08 Resid phdelay (usec) 3.93521E-06 +/- 7.9E-07
 Delay rate (us/s) 1.24173239027E+00 Apriori rate (us/s) 1.24174227179E+00 Resid rate (us/s) -9.88151E-06 +/- 3.4E-09
 Total phase (deg) -54.2 Apriori accel (us/s/s) 1.31303277888E-05 Resid phase (deg) 122.0 +/- 24.6

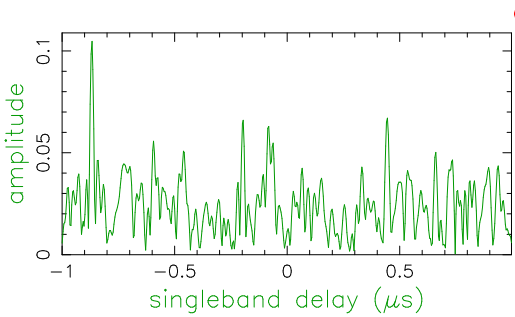
RMS Theor. Amplitude 0.119 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 51.3 59.0 Search (2048X32) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 84.2 103.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 53.3 34.8 Inc. seg. avg. 0.113 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 48.1 60.8 Inc. frq. avg. 0.139 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

n: az 74.7 el 50.6 pa -69.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9229.806 1082.076 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nY.W.302.12BED8

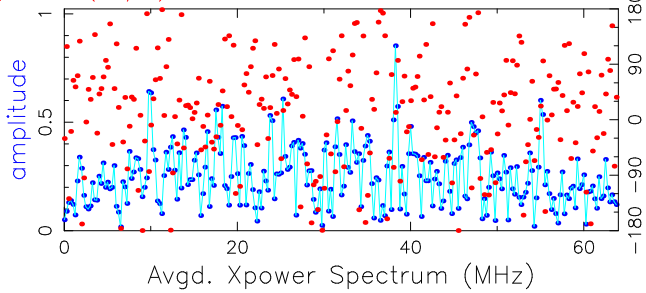


Fringe quality 0

SNR 5.8
 Int time 401.317
 Amp 0.109
 Phase 89.0
 PFD 8.8e-01
 Delays (us)
 SBD -0.867948
 MBD 0.001848
 Fringe rate (Hz)
 -0.285281
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

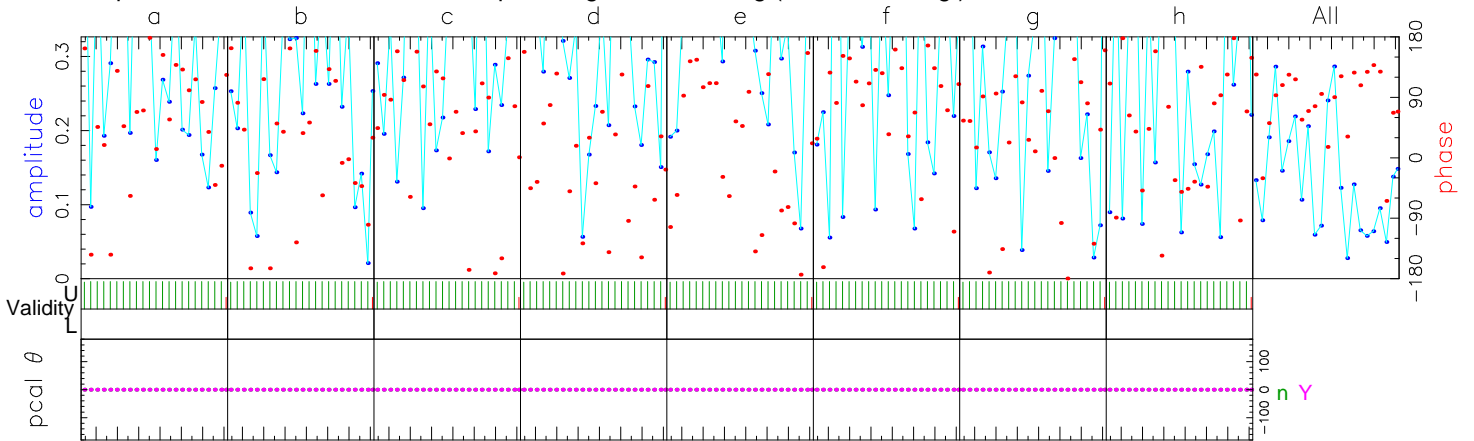


delay rate (ns/s)



Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165658
 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

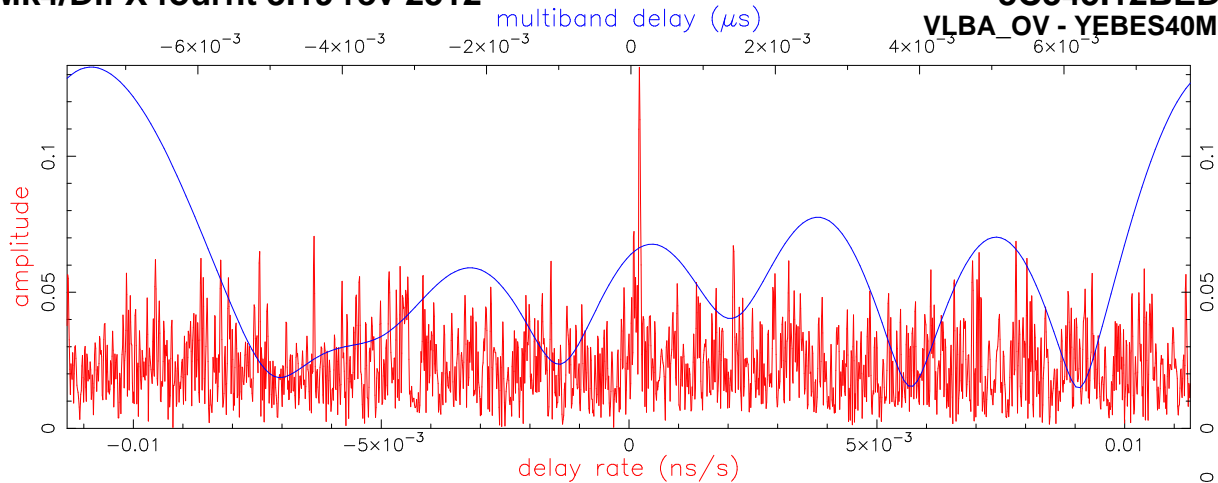


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

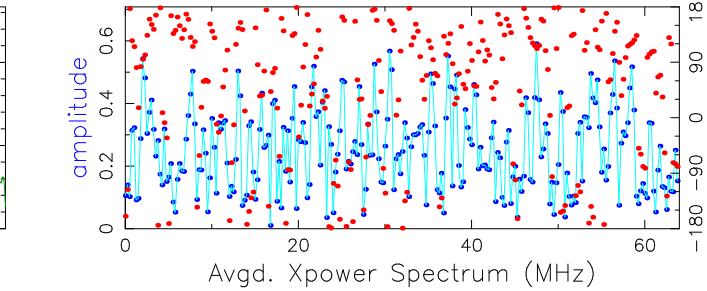
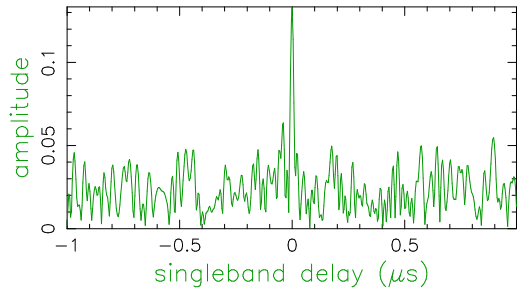
Group delay (usec)(sbd)	-2.23182013915E+03	Apriori delay (usec)	-2.23094698734E+03	Resid mbdelay (usec)	1.84819E-03	+/-	1.9E-04
Sband delay (usec)	-2.23181493534E+03	Apriori clock (usec)	1.6823357E+01	Resid sbdelay (usec)	-8.67948E-01	+/-	1.5E-03
Phase delay (usec)	-2.23094698447E+03	Apriori clockrate (us/s)	-8.5776492E-08	Resid phdelay (usec)	2.87040E-06	+/-	6.4E-07
Delay rate (us/s)	1.24173895996E+00	Apriori rate (us/s)	1.24174227179E+00	Resid rate (us/s)	-3.31183E-06	+/-	2.8E-09
Total phase (deg)	-87.2	Apriori accel (us/s/s)	1.31303277888E-05	Resid phase (deg)	89.0	+/-	19.9

ph/seg (deg)	52.6	Theor.	47.7	Amplitude	0.109 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.5		83.3	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	29.0		28.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	46.1		49.1	Inc. seg. avg.	0.104	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.104	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

n: az 74.7 el 50.6 pa -69.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9229.806 1082.076 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nY.W.321.12BED8

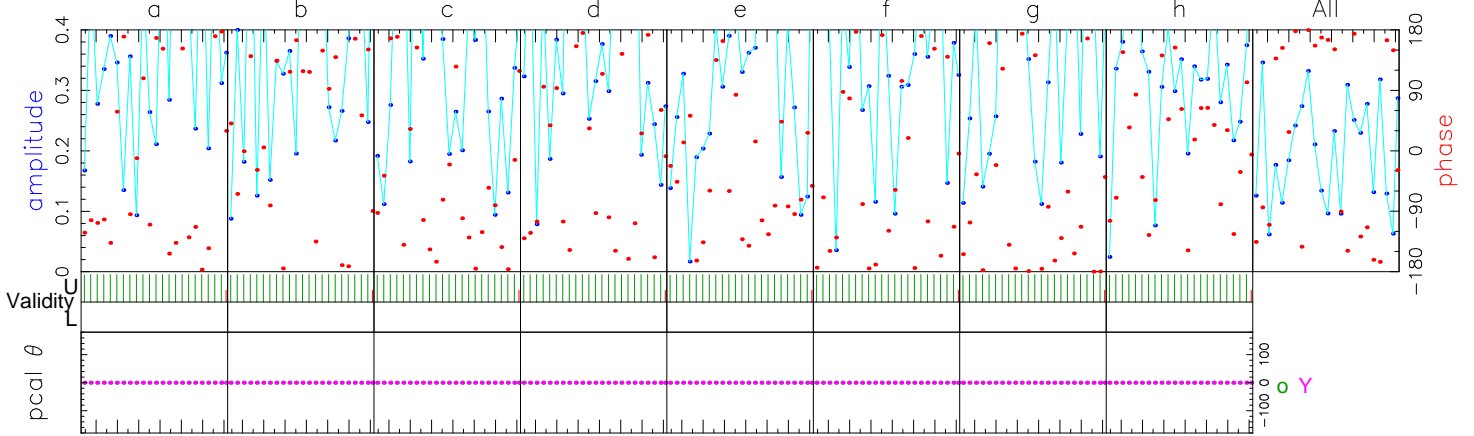


Fringe quality 9
SNR 7.3
Int time 401.317
Amp 0.133
Phase -162.0
PFD 8.7e-05
Delays (us)
SBD -0.000860
MBD -0.007521
Fringe rate (Hz)
0.017830
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165646
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
	-157.4	142.5	-145.7	-162.4	-91.9	-167.9	-159.5	47.7	Phase	-162.0
	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	Ampl.	0.2
	285.3	255.5	256.4	257.1	372.5	256.1	255.8	333.6	Sbd box	256.8
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

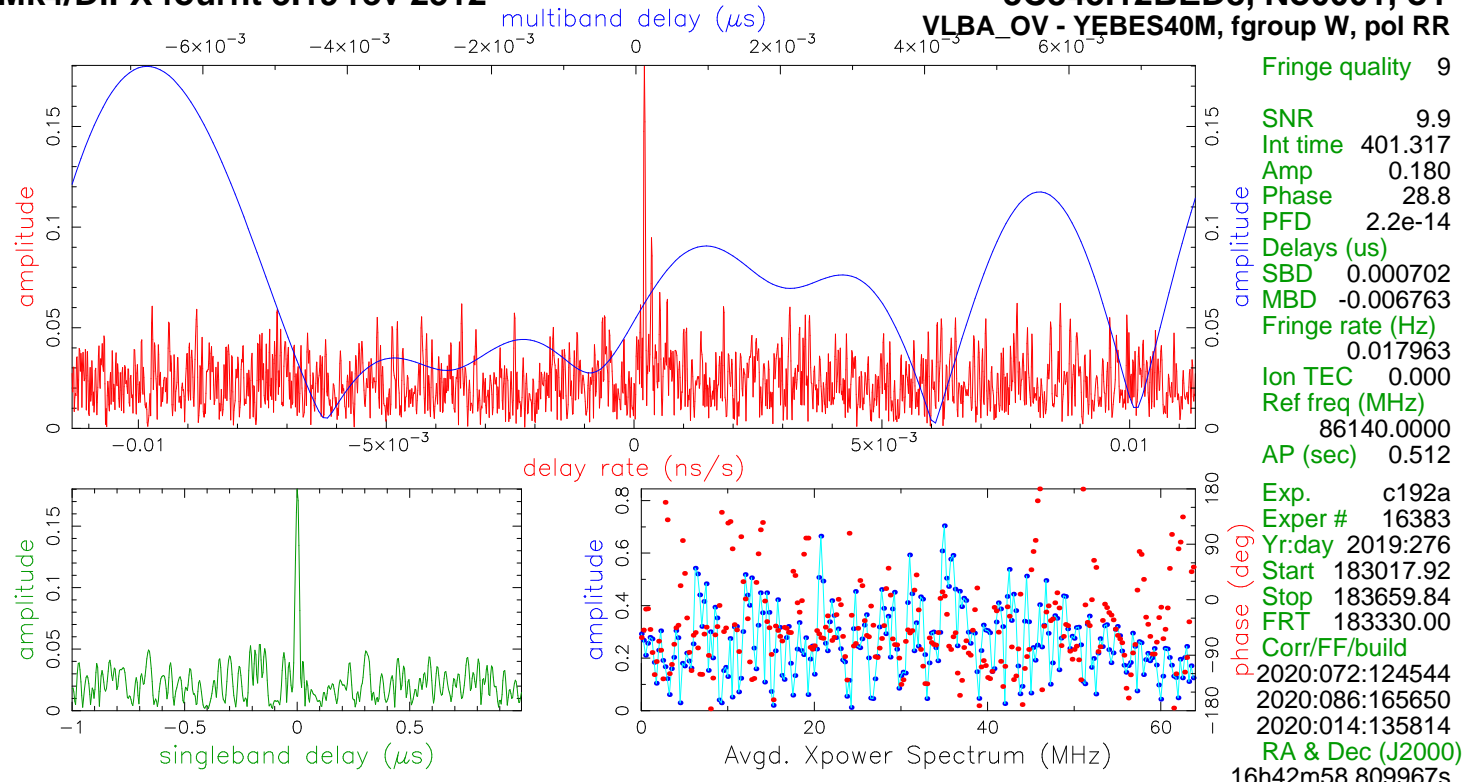
Group delay (usec)(sbd)	-8.03083165925E+03	Apriori delay (usec)	-8.03082413832E+03	Resid mbdelay (usec)	-7.52093E-03	+/-	1.5E-04
Sband delay (usec)	-8.03082499832E+03	Apriori clock (usec)	6.9777994E+00	Resid sbdelay (usec)	-8.60000E-04	+/-	1.2E-03
Phase delay (usec)	-8.03082414355E+03	Apriori clockrate (us/s)	-2.1901900E-07	Resid phdelay (usec)	-5.22535E-06	+/-	5.1E-07
Delay rate (us/s)	1.47259722651E+00	Apriori rate (us/s)	1.47259701952E+00	Resid rate (us/s)	2.06987E-07	+/-	2.2E-09
Total phase (deg)	-261.0	Apriori accel (us/s/s)	3.95125131510E-05	Resid phase (deg)	-162.0	+/-	15.7

ph/seg (deg)	56.5	Theor.	37.6	Amplitude	0.133 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	82.1		65.6	Search (2048X32)	0.129	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	71.8		22.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	45.7		38.7	Inc. seg. avg.	0.164	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.168	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

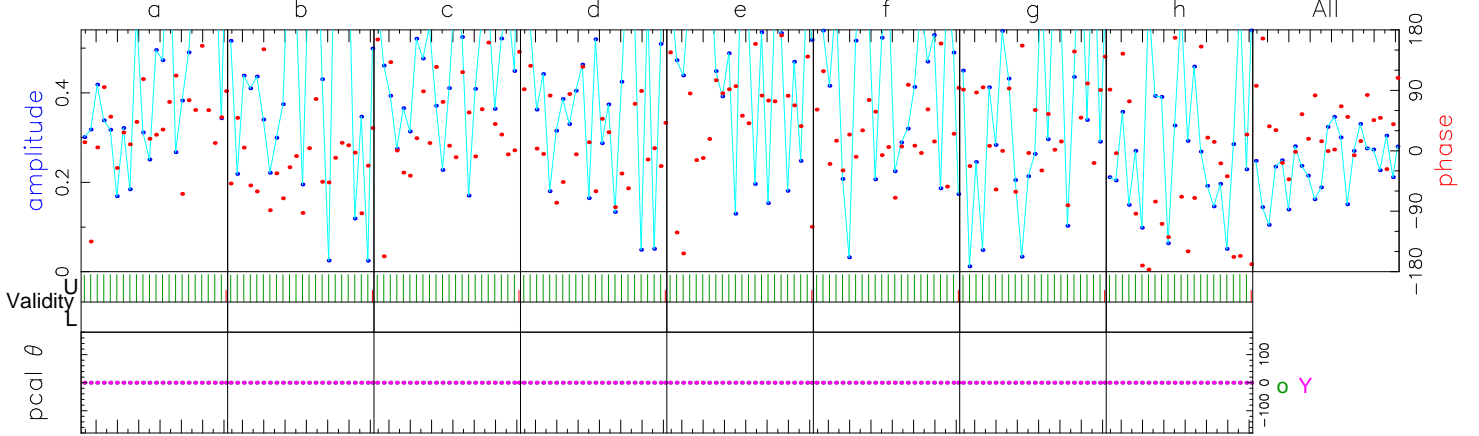
o: az 60.7 el 29.9 pa -64.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10905.762 2412.301 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/oY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/oY.W.258.12BED8

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, oY
VLBA_OV - YEYES40M, fgroup W, pol RR



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

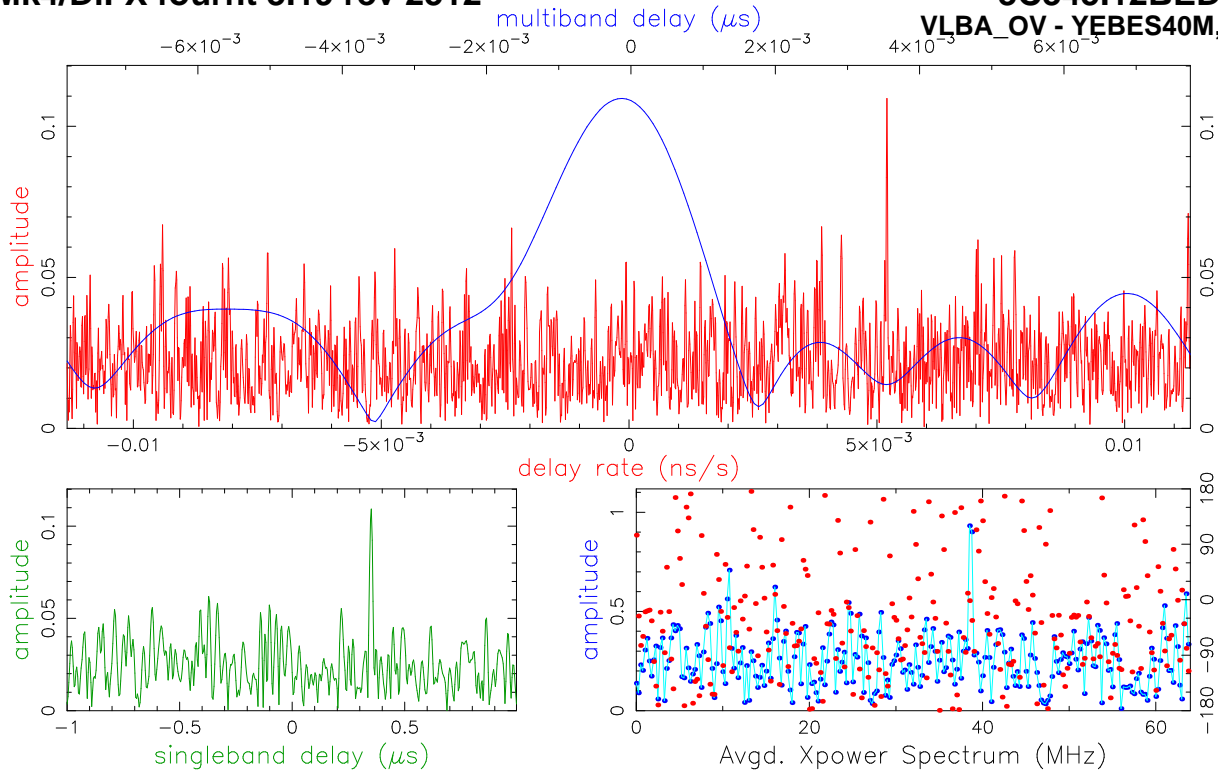


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	51.1	-13.3	44.7	10.3	79.6	21.0	29.7	-130.6	Phase	28.8
	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.1	Ampl.	0.2
	257.0	257.0	258.3	257.1	256.2	257.1	255.0	255.0	Sbd box	257.2
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.03083090134E+03		Apriori delay (usec)		-8.03082413832E+03		Resid mbdelay (usec)		-6.76302E-03	+/- 1.1E-04
Sband delay (usec)	-8.03082343657E+03		Apriori clock (usec)		6.9777994E+00		Resid sbdelay (usec)		7.01750E-04	+/- 8.7E-04
Phase delay (usec)	-8.03082413739E+03		Apriori clockrate (us/s)		-2.1901900E-07		Resid phdelay (usec)		9.29491E-07	+/- 3.7E-07
Delay rate (us/s)	1.47259722806E+00		Apriori rate (us/s)		1.47259701952E+00		Resid rate (us/s)		2.08534E-07	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.95125131510E-05		Resid phase (deg)		28.8	+/- 11.6

	RMS	Theor.	Amplitude	0.180 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	47.4	27.8	Search (2048X32)	0.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	48.4	48.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	71.8	16.4	Inc. seg. avg.	0.213	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	46.5	28.6	Inc. frq. avg.	0.223	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

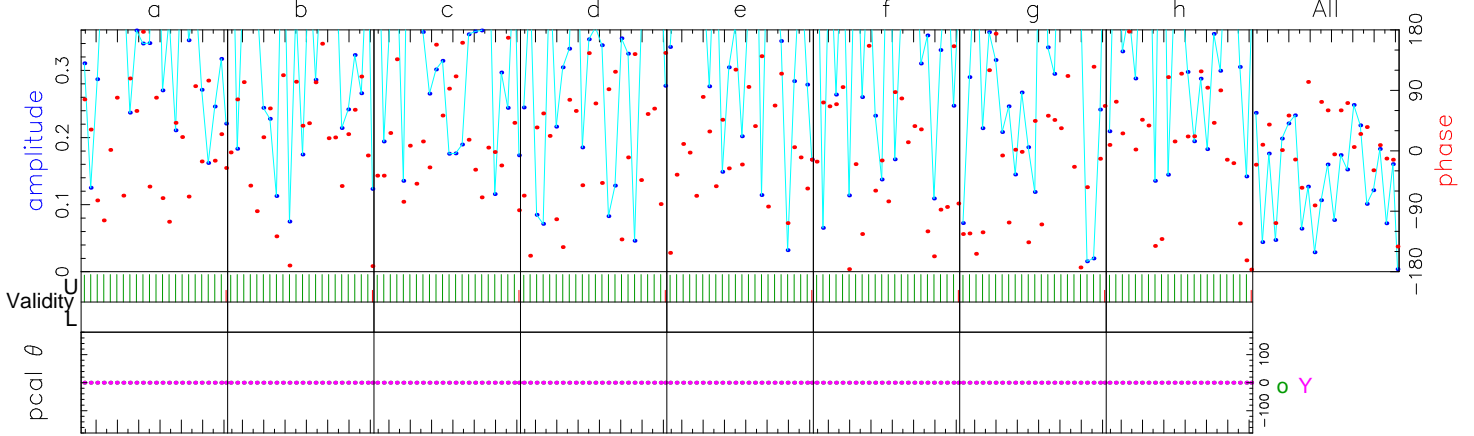
o: az 60.7 el 29.9 pa -64.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10905.762 2412.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/oY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/oY.W.283.12BED8



Fringe quality 0
SNR 6.0
Int time 401.317
Amp 0.120
Phase 18.5
PFD 3.5e-01
Delays (us)
SBD 0.350568
MBD -0.000152
Fringe rate (Hz)
0.449115
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Xr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165654
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



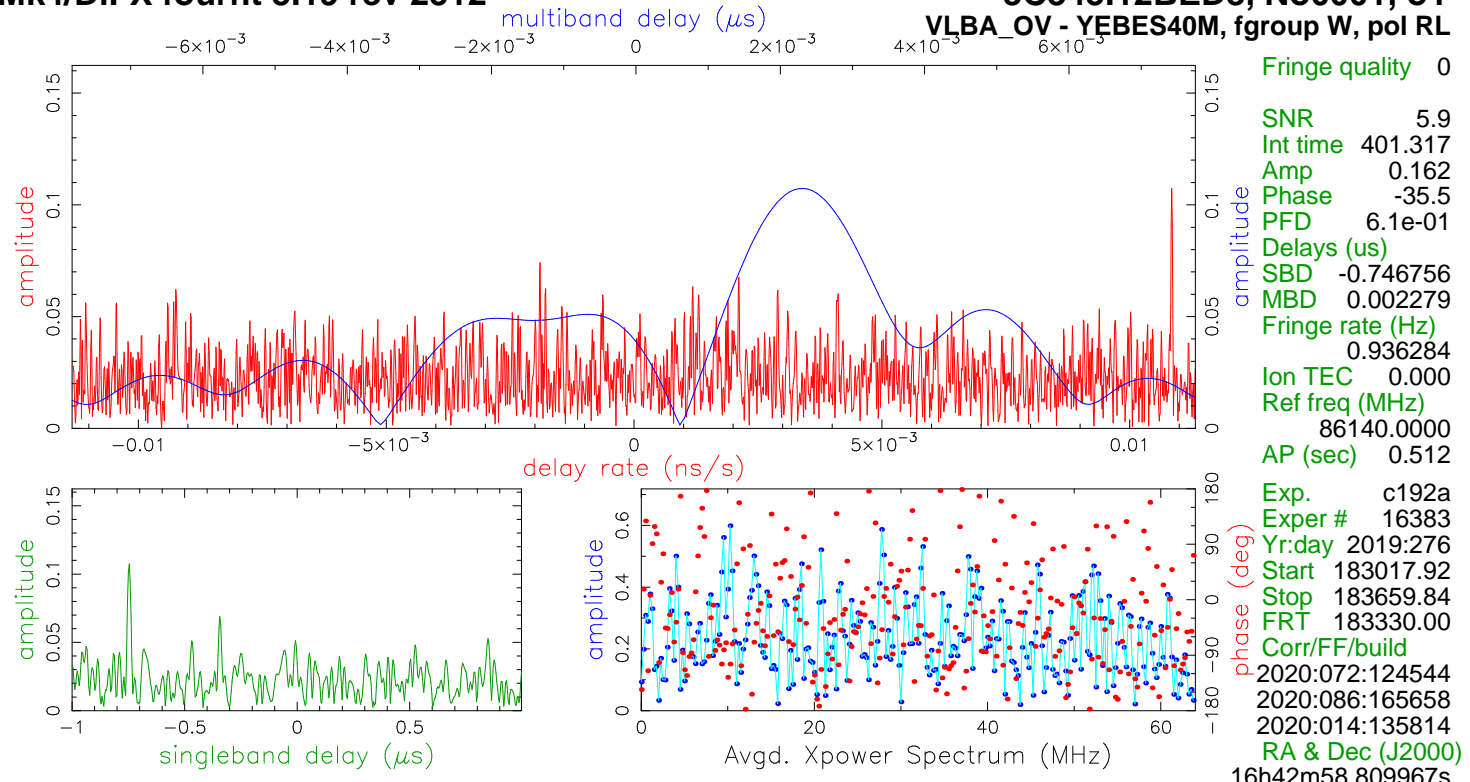
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-8.03048054067E+03									
Sband delay (usec)	-8.03047357057E+03									
Phase delay (usec)	-8.03082413772E+03									
Delay rate (us/s)	1.47260223330E+00									
Total phase (deg)			-80.4							
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										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 55.2 45.6
amp/seg (%) 68.5 79.6
ph/frq (deg) 47.3 26.9
amp/frq (%) 51.2 46.9
o: az 60.7 el 29.9 pa -64.6
Control file: cf_1234_gmva

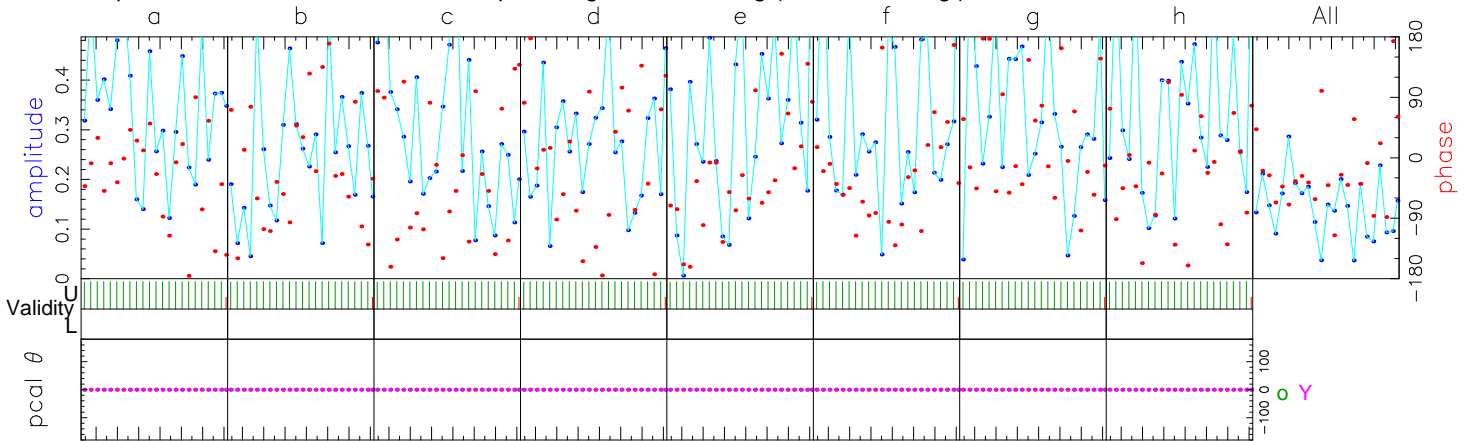
Y: az 280.2 el 62.9 pa 76.6
Input file: /Exps/c192a/v1_PV/1234/No0001/oY..12BED8

u,v (fr/asec) -10905.762 2412.301
Output file: /Exps/c192a/v1_PV/1234/No0001/oY.W.303.12BED8

simultaneous interpolator



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

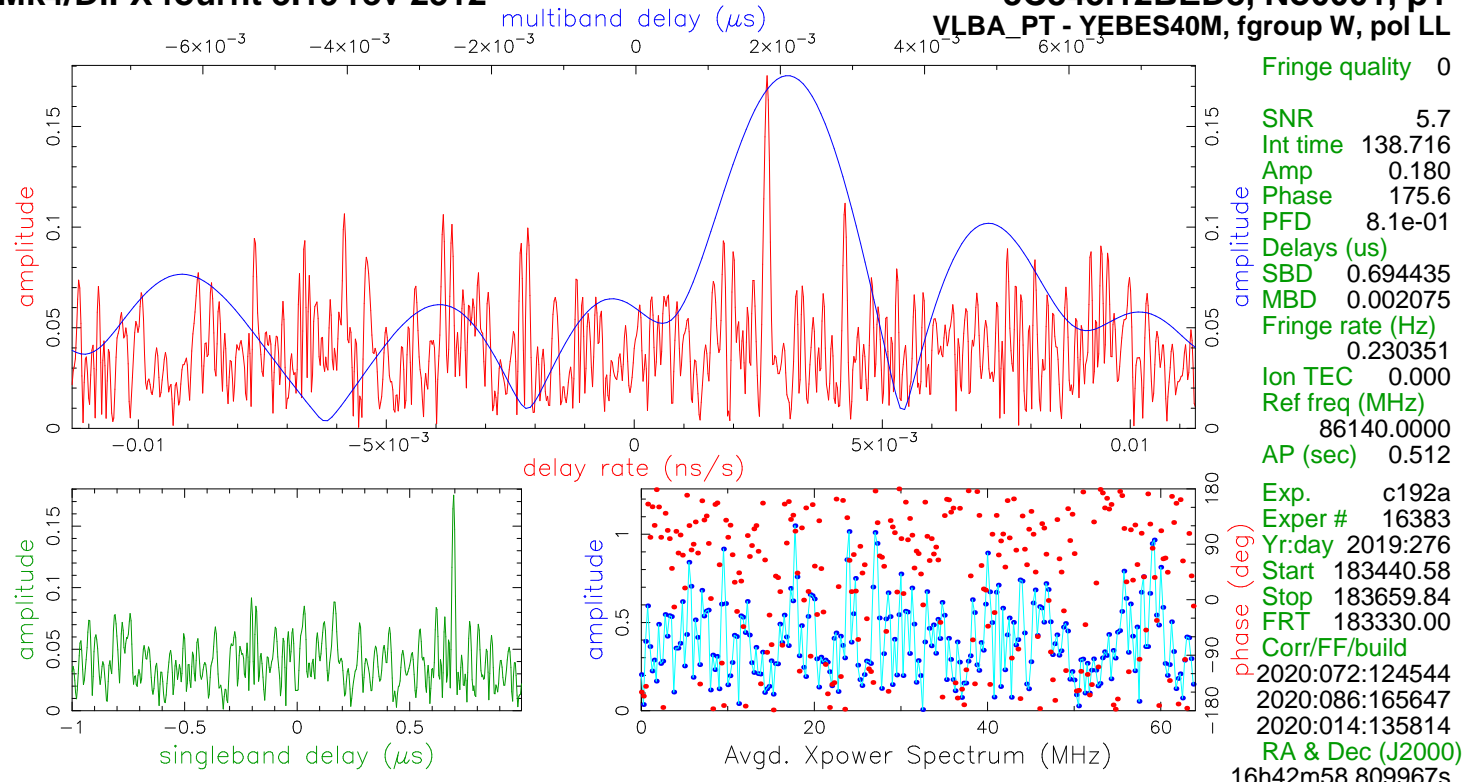


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-14.4	-59.1	-100.8	-64.1	-33.4	-48.2	-28.0	-12.7	Phase	-35.5
	0.3	0.1	0.1	0.0	0.2	0.3	0.2	0.2	Ampl.	0.2
	66.2	496.3	457.3	82.3	67.5	64.9	298.8	14.1	Sbd box	65.8
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.03157185948E+03		Apriori delay (usec)		-8.03082413832E+03		Resid mbdelay (usec)		2.27884E-03	+/- 1.8E-04
Sband delay (usec)	-8.03157089482E+03		Apriori clock (usec)		6.9777994E+00		Resid sbdelay (usec)		-7.46756E-01	+/- 1.5E-03
Phase delay (usec)	-8.03082413947E+03		Apriori clockrate (us/s)		-2.1901900E-07		Resid phdelay (usec)		-1.14511E-06	+/- 6.3E-07
Delay rate (us/s)	1.47260788885E+00		Apriori rate (us/s)		1.47259701952E+00		Resid rate (us/s)		1.08693E-05	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		3.95125131510E-05		Resid phase (deg)		-35.5	+/- 19.4

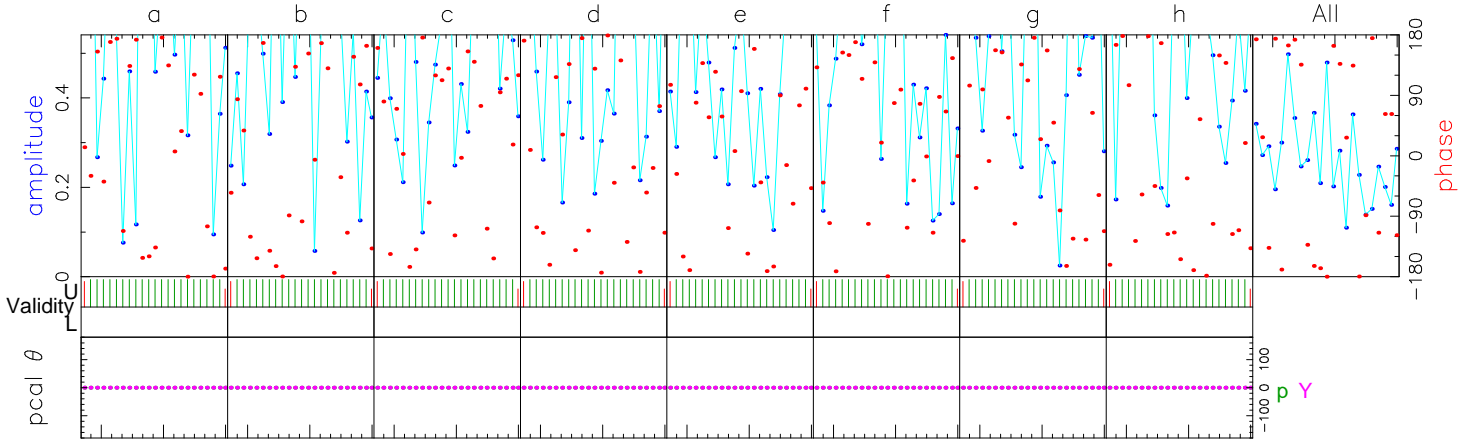
	RMS	Theor.	Amplitude	0.162 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.3	46.6	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.4	81.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	33.7	27.5	Inc. seg. avg.	0.164	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.7	48.0	Inc. frq. avg.	0.157	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

o: az 60.7 el 29.9 pa -64.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10905.762 2412.301 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/oY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/oY.W.319.12BED8



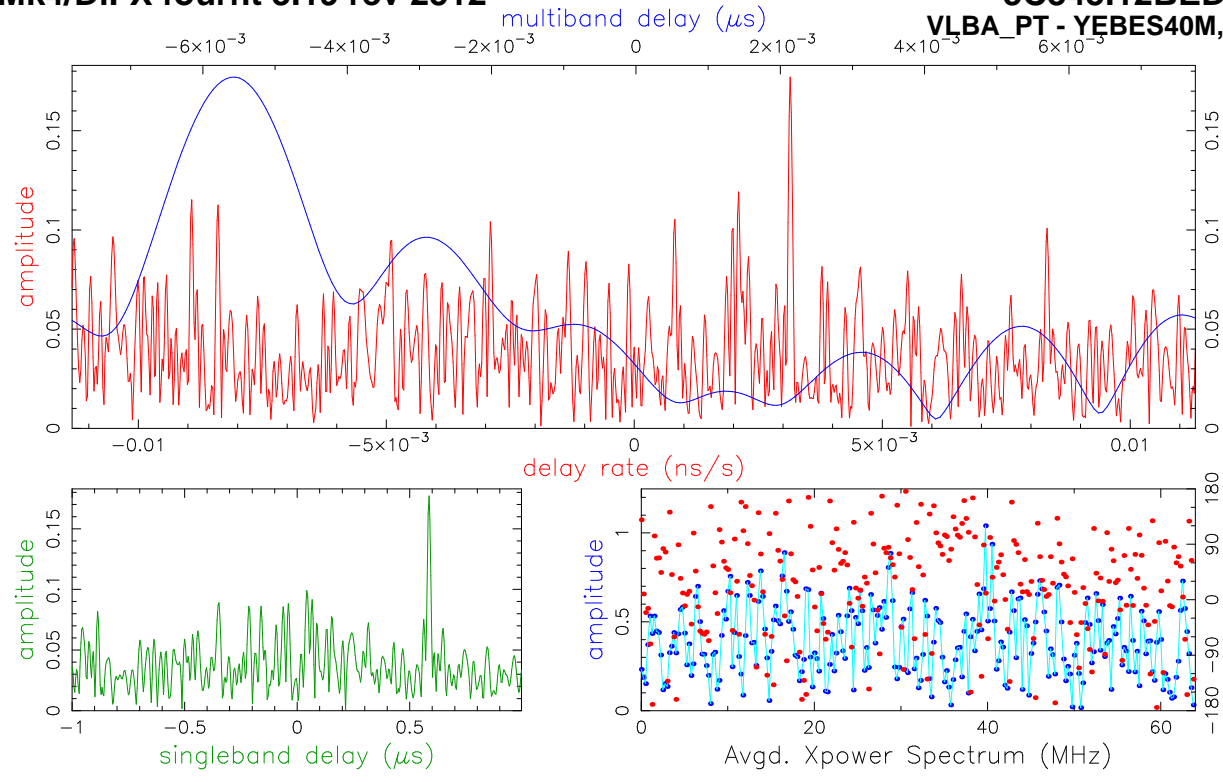
Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-179.7	-167.1	140.8	-152.1	101.6	135.4	168.6	-152.4	Phase	175.6
	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.3	Ampl.	0.2
	113.7	434.8	423.4	467.1	302.8	234.0	264.6	164.9	Sbd box	434.8
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.20318020336E+03	Apriori delay (usec)	-6.20386977793E+03	Resid mbdelay (usec)	2.07457E-03	+/-	1.9E-04
Sband delay (usec)	-6.20317534243E+03	Apriori clock (usec)	2.2539244E+00	Resid sbdelay (usec)	6.94435E-01	+/-	1.5E-03
Phase delay (usec)	-6.20386977227E+03	Apriori clockrate (us/s)	-1.6113413E-08	Resid phdelay (usec)	5.66129E-06	+/-	6.5E-07
Delay rate (us/s)	1.45817871507E+00	Apriori rate (us/s)	1.45817604092E+00	Resid rate (us/s)	2.67415E-06	+/-	8.1E-09
Total phase (deg)	-66.0	Apriori accel (us/s/s)	2.67856082006E-05	Resid phase (deg)	175.6	+/-	20.2

ph/seg (deg)	65.8	Theor.	48.4	Amplitude	0.180 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	76.4	Search (1024X32)	0.173	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	42.3	Interp.	0.203	Inc. seg. avg.	0.203	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	38.6	Inc. frq. avg.	0.187	Inc. frq. avg.	0.187	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	
						nlags: 256	t_cohere infinite		
p: az 62.4 el 35.8 pa -72.8		Y: az 280.2 el 62.9 pa 76.6		u, v (fr/asec)	-10820.770 1297.105			simultaneous interpolator	

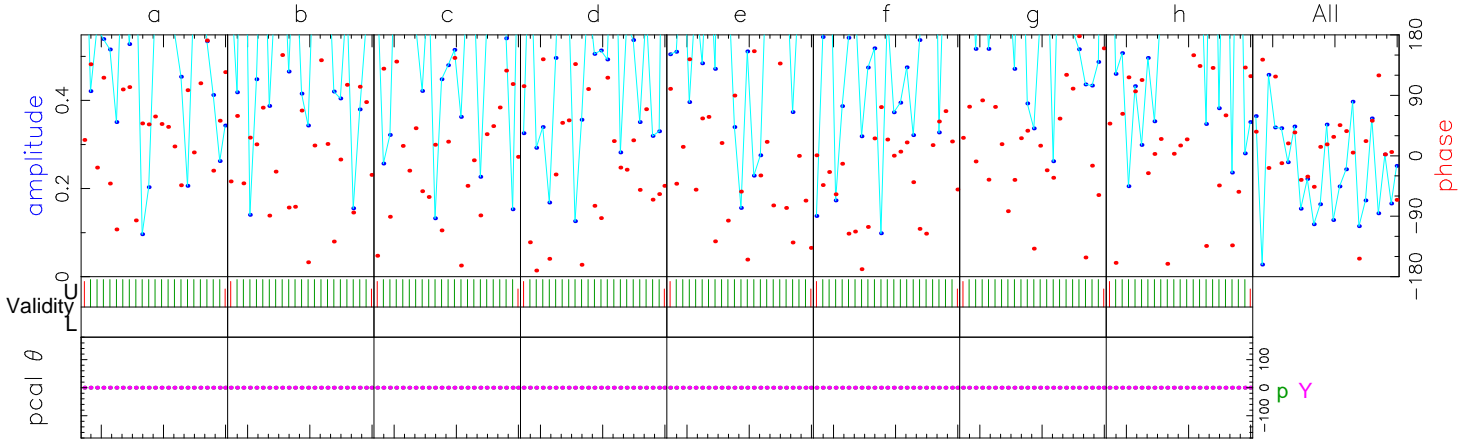


Fringe quality 0

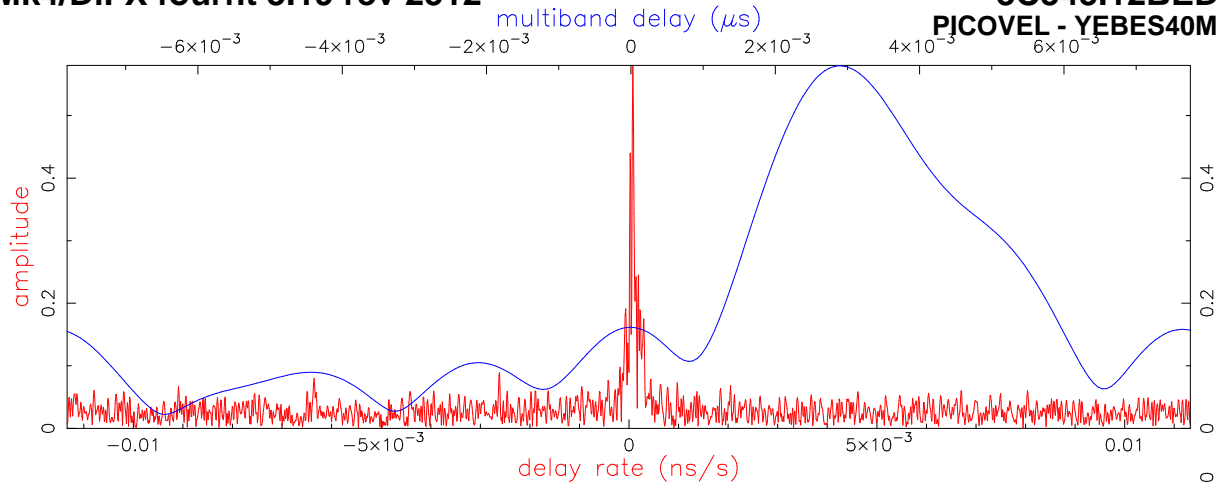
SNR 5.7
Int time 138.716
Amp 0.183
Phase 16.2
PFD 7.6e-01
Delays (us)
SBD 0.585632
MBD -0.005592
Fringe rate (Hz) 0.272174
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183440.58
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165649
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

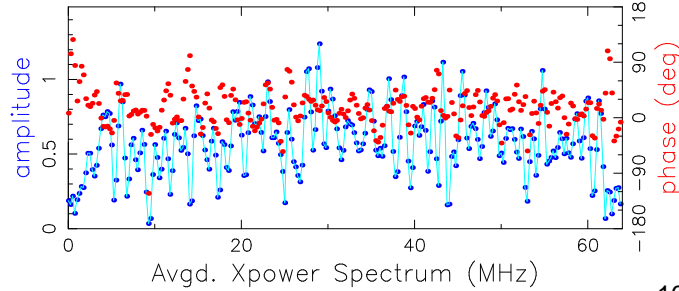
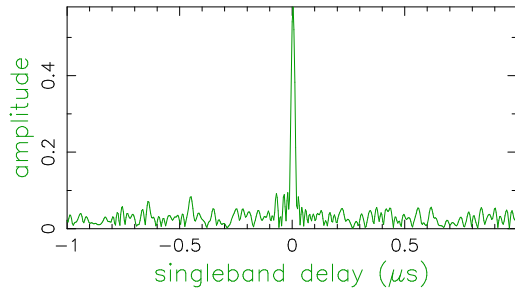


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.20328161984E+03				-6.20386977793E+03				-5.59191E-03	+/- 1.9E-04
Sband delay (usec)	-6.20328414593E+03				2.2539244E+00				5.85632E-01	+/- 1.5E-03
Phase delay (usec)	-6.20386977741E+03				-1.6113413E-08				5.23040E-07	+/- 6.5E-07
Delay rate (us/s)	1.45817920059E+00				1.45817604092E+00				3.15967E-06	+/- 8.1E-09
Total phase (deg)			-225.3		2.67856082006E-05				16.2	+/- 20.1
	RMS	Theor.	Amplitude	0.183 +/- 0.032	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	61.3	48.2	Search (1024X32)	0.175	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	71.4	84.1	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	32.9	28.4	Inc. seg. avg.	0.185	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	28.1	49.6	Inc. frq. avg.	0.186	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
p: az 62.4 el 35.8 pa -72.8			Y: az 280.2 el 62.9 pa 76.6		u,v (fr/asec) -10820.770 1297.105					simultaneous interpolator



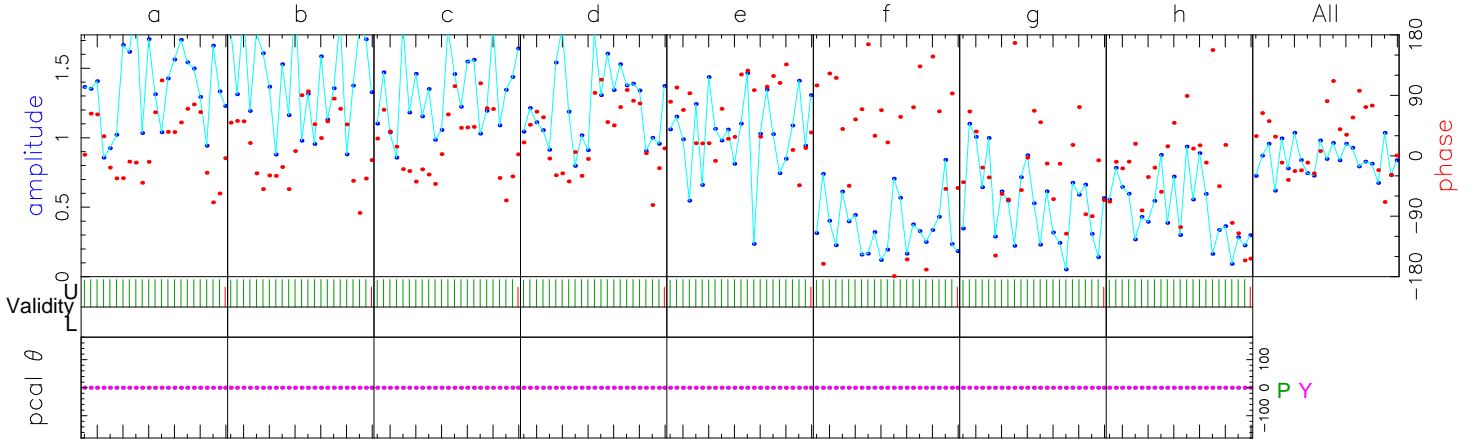
Fringe quality 3

SNR 29.1
 Int time 336.533
 Amp 0.580
 Phase 21.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.003475
 MBD 0.002885
 Fringe rate (Hz)
 0.007016
 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
 2020:086:165649
 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

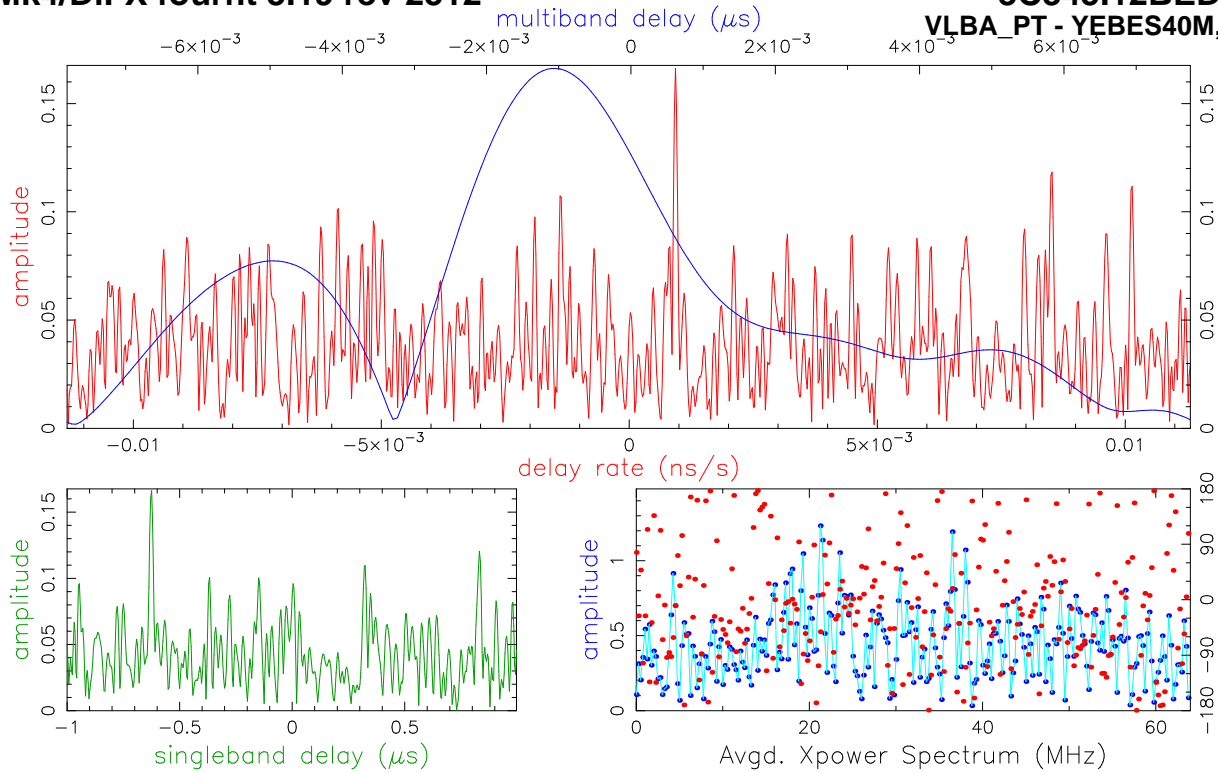


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-1.05993512847E+02	Apriori delay (usec)	-1.05996398026E+02	Resid mbdelay (usec)	2.88518E-03	+/-	3.7E-05
Sband delay (usec)	-1.05992922776E+02	Apriori clock (usec)	-9.7419491E+00	Resid sbdelay (usec)	3.47525E-03	+/-	3.0E-04
Phase delay (usec)	-1.05996397327E+02	Apriori clockrate (us/s)	-5.7299998E-07	Resid phdelay (usec)	6.98732E-07	+/-	1.3E-07
Delay rate (us/s)	-2.28605248488E-02	Apriori rate (us/s)	-2.28606062926E-02	Resid rate (us/s)	8.14437E-08	+/-	6.5E-10
Total phase (deg)	-239.7	Apriori accel (us/s/s)	-2.87098733080E-06	Resid phase (deg)	21.7	+/-	3.9

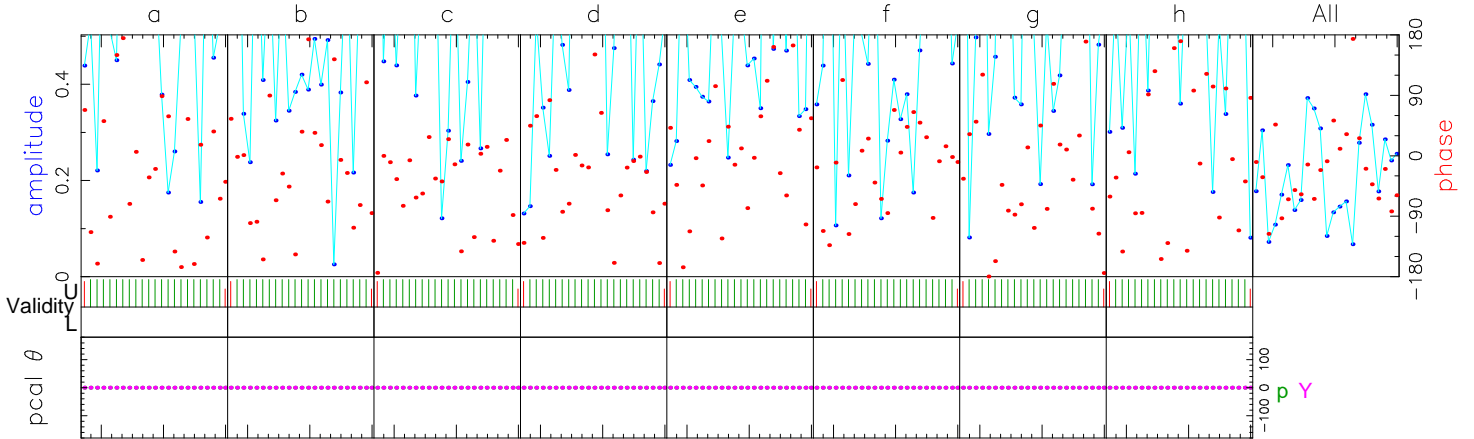
ph/seg (deg)	47.6	RMS	47.6	Theor.	9.4	Amplitude	0.580 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	50.4	Search (2048X32)	0.566	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	38.1	Inc. seg. avg.	0.838	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	54.2	Inc. frq. avg.	0.619	u,v (fr/asec)	164.667 -508.882								

P: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 164.667 -508.882 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PY.W.278.12BED8



Fringe quality 0
 SNR 5.4
 Int time 138.716
 Amp 0.168
 Phase -31.3
 PFD 1.0e+00
 Delays (us)
 SBD -0.626071
 MBD -0.001051
 Fringe rate (Hz)
 0.080039
 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
 2020:086:165651
 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

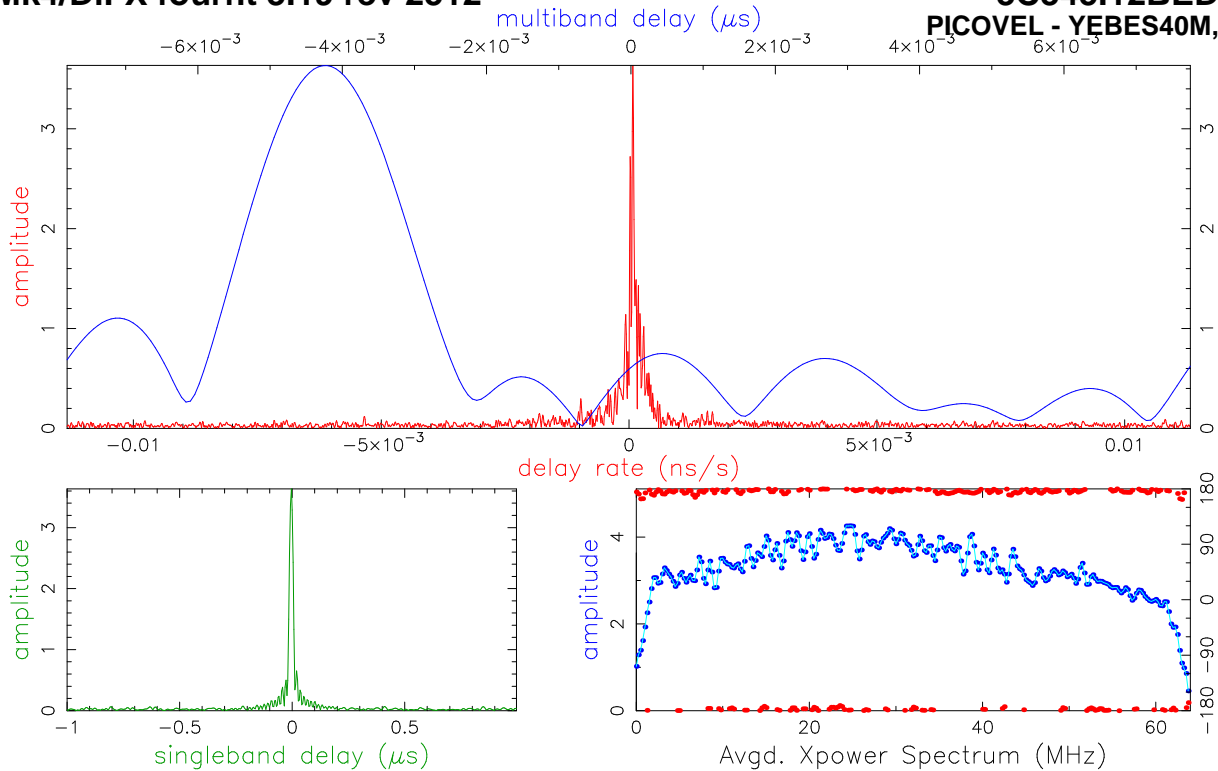


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.3	-27.5	-35.4	-23.9	32.6	-16.2	-40.3	-127.8	Phase	-31.3
	0.1	0.2	0.4	0.2	0.1	0.3	0.2	0.1	Ampl.	0.2
	471.1	47.4	96.4	293.4	254.4	119.5	435.5	421.2	Sbd box	96.7
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.20449582849E+03	Apriori delay (usec)	-6.20386977793E+03	Resid mbdelay (usec)	-1.05056E-03	+/-	2.0E-04
Sband delay (usec)	-6.20449584868E+03	Apriori clock (usec)	2.2539244E+08	Resid sbdelay (usec)	-6.26071E-01	+/-	1.6E-03
Phase delay (usec)	-6.20386977894E+03	Apriori clockrate (us/s)	-1.6113413E-08	Resid phdelay (usec)	-1.00871E-06	+/-	6.9E-07
Delay rate (us/s)	1.45817697009E+00	Apriori rate (us/s)	1.45817604092E+00	Resid rate (us/s)	9.29171E-07	+/-	8.5E-09
Total phase (deg)	-272.8	Apriori accel (us/s/s)	2.67856082006E-05	Resid phase (deg)	-31.3	+/-	21.3

ph/seg (deg)	54.2	Theor.	51.0	Search (1024X32)	0.165	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	63.4		89.1	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	49.8		30.1	Inc. seg. avg.	0.153	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	56.4		52.5	Inc. frq. avg.	0.165	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

p: az 62.4 el 35.8 pa -72.8 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10820.770 1297.105 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/pY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/pY.W.291.12BED8

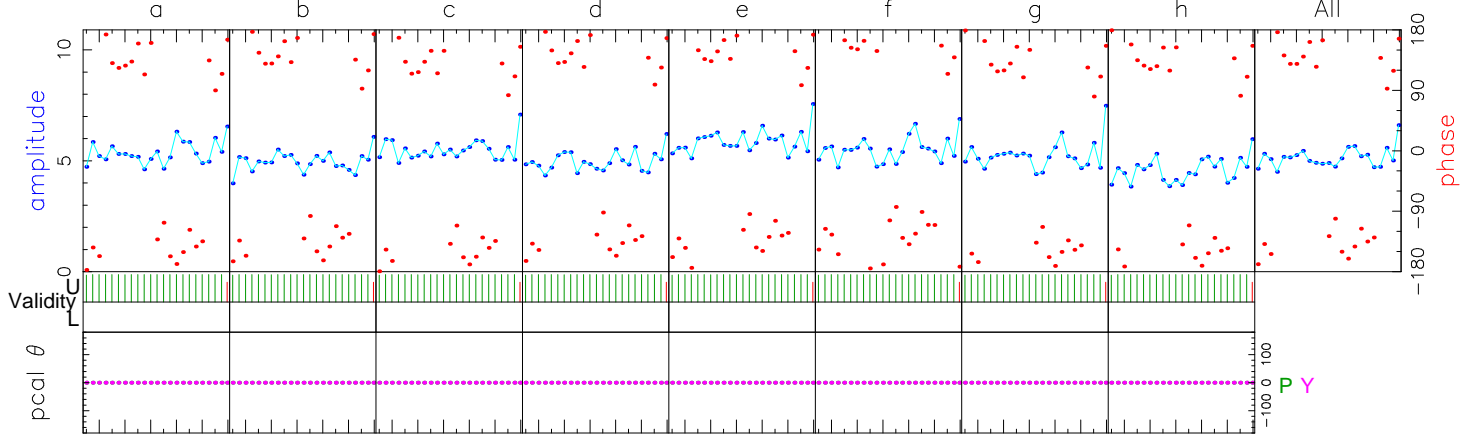


Fringe quality 4

SNR 182.4
 Int time 336.533
 Amp 3.635
 Phase 179.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.004138
 MBD -0.004242
 Fringe rate (Hz) 0.007112
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

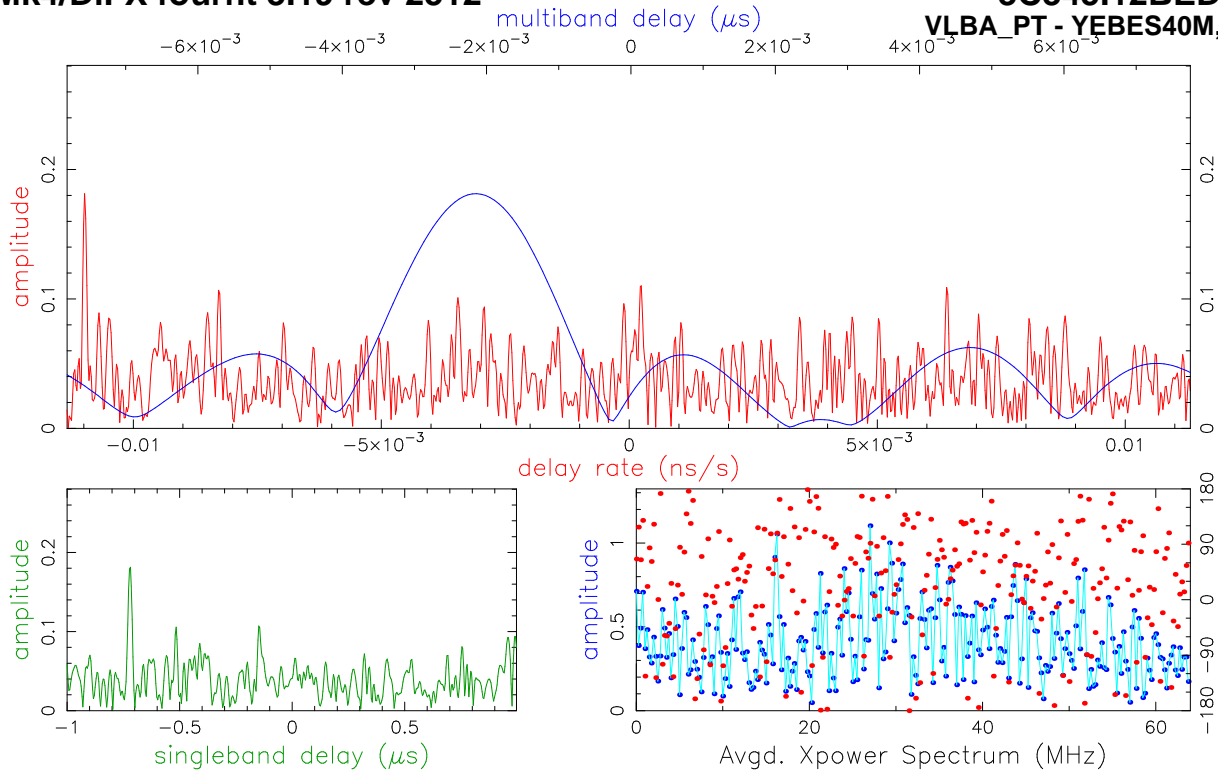
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183122.43
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165653
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

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



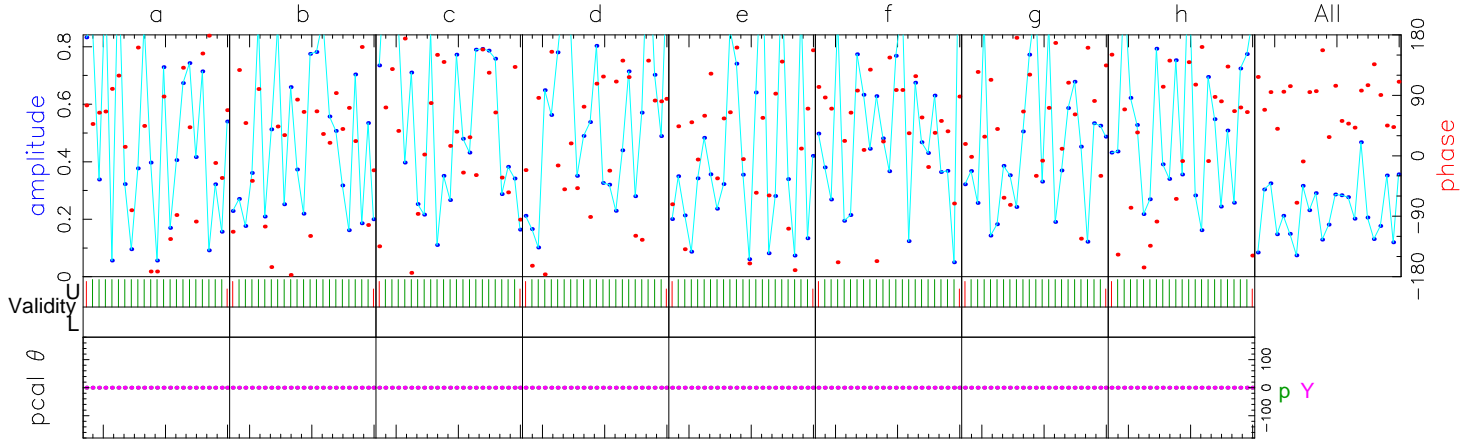
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	174.3	-179.5	170.0	-177.8	-172.6	-156.9	167.2	168.5	Phase	179.4
	3.8	3.5	3.9	3.5	4.1	3.9	3.7	3.3	Ampl.	3.7
	256.2	255.9	256.1	256.2	256.0	255.8	255.8	256.0	Sbd box	255.9
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.06000639972E+02		Apriori delay (usec)	-1.05996398026E+02	Resid mbdelay (usec)	-4.24195E-03	+/-	6.0E-06		
Sband delay (usec)	-1.06000536526E+02		Apriori clock (usec)	-9.7419491E+00	Resid sbdelay (usec)	-4.13850E-03	+/-	4.7E-05		
Phase delay (usec)	-1.05996392241E+02		Apriori clockrate (us/s)	-5.7299998E-07	Resid phdelay (usec)	5.78483E-06	+/-	2.0E-08		
Delay rate (us/s)	-2.28605237279E-02		Apriori rate (us/s)	-2.28606062926E-02	Resid rate (us/s)	8.25647E-08	+/-	1.0E-10		
Total phase (deg)		-82.0	Apriori accel (us/s/s)	-2.87098733080E-06	Resid phase (deg)	179.4	+/-	0.6		

ph/seg (deg) 46.0 1.5 Theor. Amplitude 3.635 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.8 2.6 Search (2048X32) 3.458 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.0 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.9 1.6 Inc. seg. avg. 5.136 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 0
SNR 5.9
Int time 138.716
Amp 0.280
Phase 76.9
PFD 3.4e-01
Delays (us)
SBD -0.720393
MBD -0.002137
Fringe rate (Hz)
-0.948128
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
2020:086:165653
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

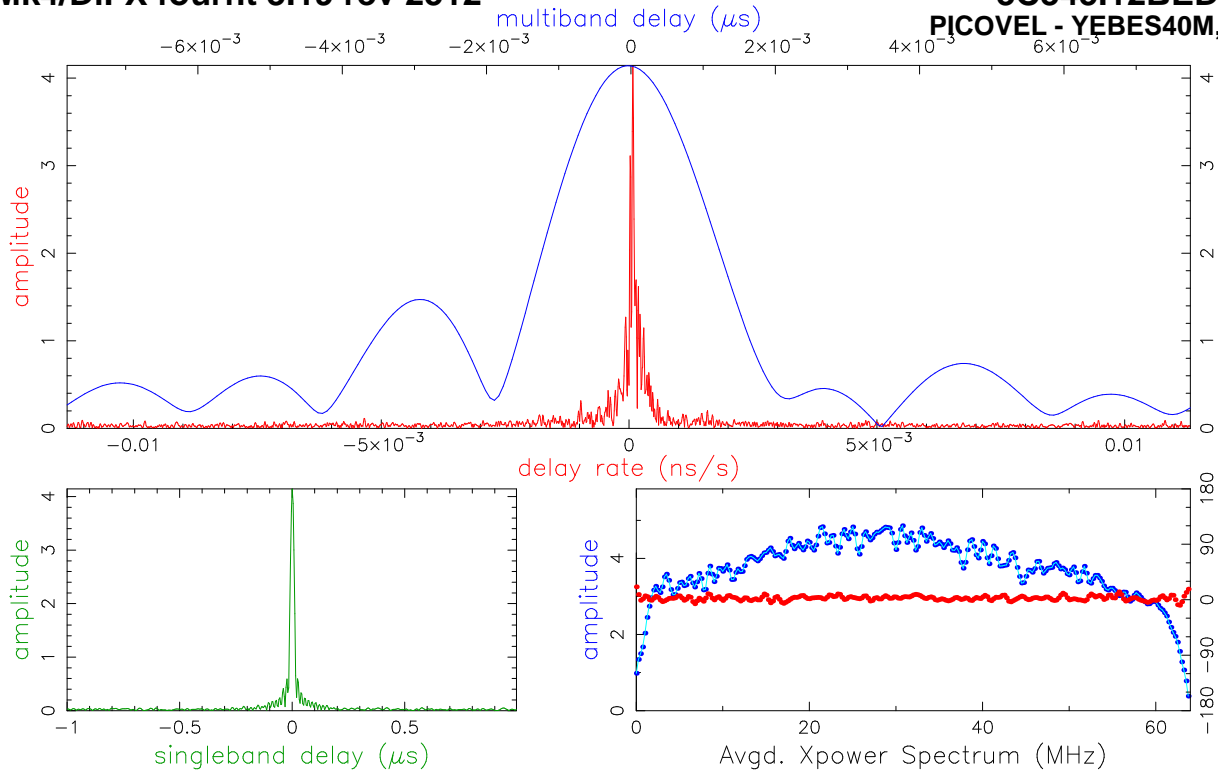


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.20459066531E+03	Apriori delay (usec)	-6.20386977793E+03	Resid mbdelay (usec)	-2.13738E-03	+/-	1.8E-04
Sband delay (usec)	-6.20459017093E+03	Apriori clock (usec)	2.2539244E+00	Resid sbdelay (usec)	-7.20393E-01	+/-	1.5E-03
Phase delay (usec)	-6.20386977545E+03	Apriori clockrate (us/s)	-1.6113413E-08	Resid phdelay (usec)	2.48032E-06	+/-	6.2E-07
Delay rate (us/s)	1.45816503409E+00	Apriori rate (us/s)	1.45817604092E+00	Resid rate (us/s)	-1.10068E-05	+/-	7.8E-09
Total phase (deg)	-164.6	Apriori accel (us/s/s)	2.67856082006E-05	Resid phase (deg)	76.9	+/-	19.4

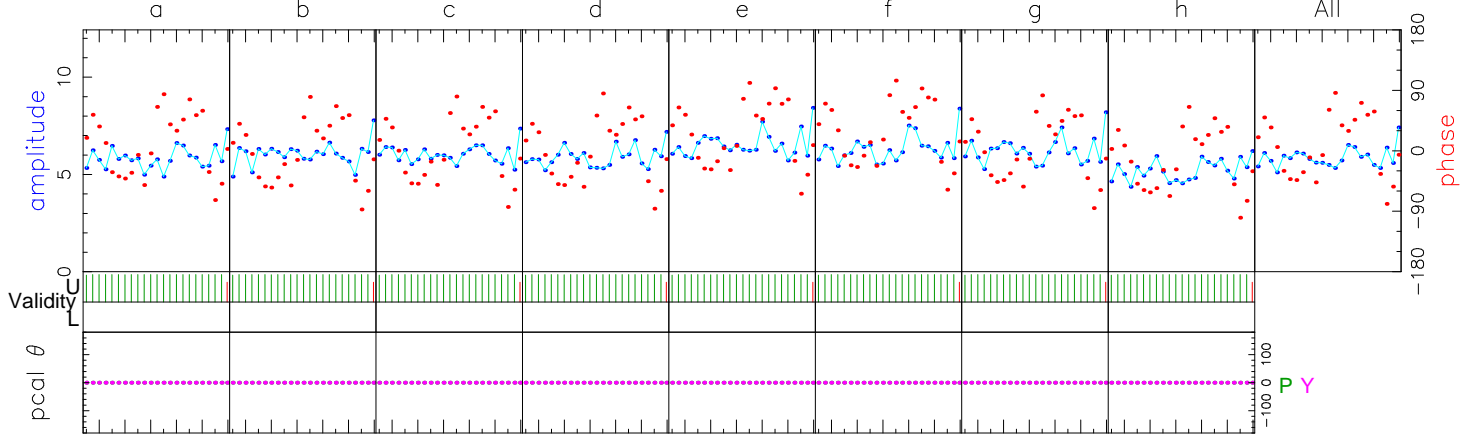
ph/seg (deg)	48.8	Theor.	46.4	Amplitude	0.280 +/- 0.047	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	58.2		81.0	Search (1024X32)	0.180	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	20.5		27.4	Inc. seg. avg.	0.263	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	29.7		47.8	Inc. frq. avg.	0.259	Data rate (Mb/s):	2048							

p: az 62.4 el 35.8 pa -72.8 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -10820.770 1297.105 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/pY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/pY.W.298.12BED8



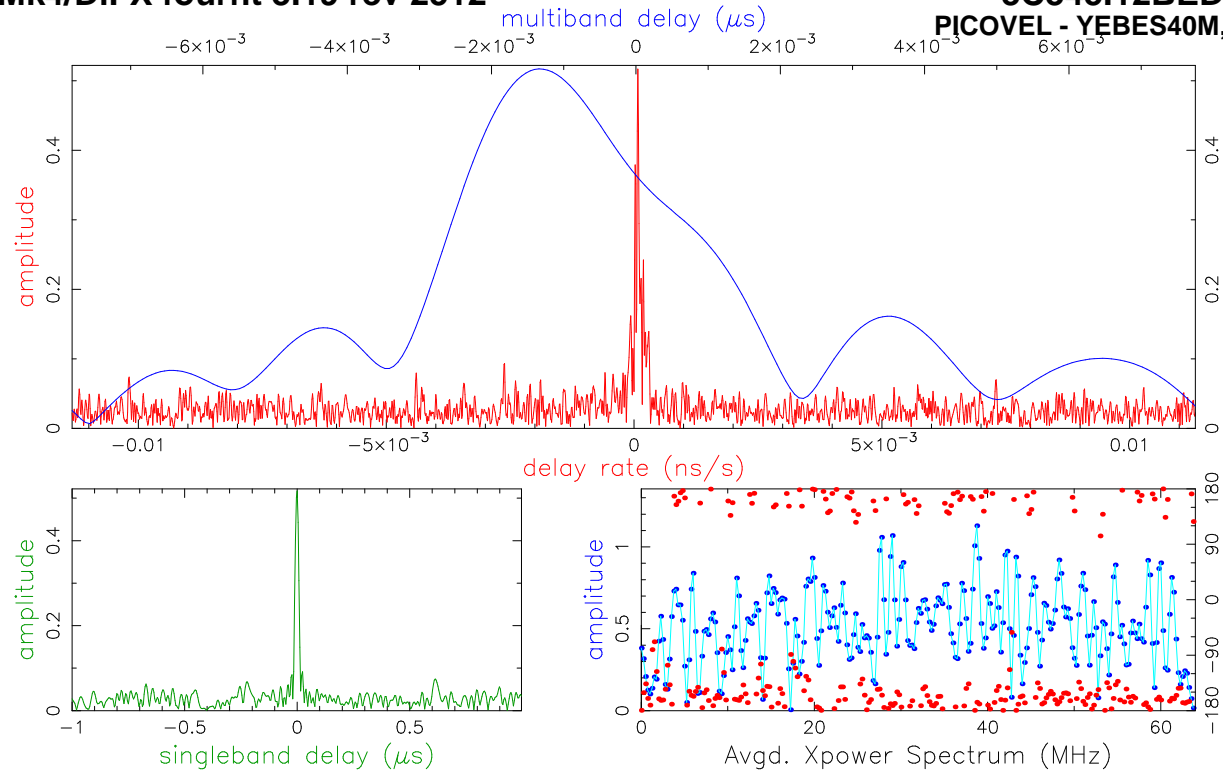
Fringe quality 4
 SNR 208.0
 Int time 336.533
 Amp 4.146
 Phase 7.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.000422
 MBD -0.000027
 Fringe rate (Hz) 0.007111
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183122.43
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165657
 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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.05996424878E+02				-1.05996398026E+02					
Sband delay (usec)	-1.05995975776E+02				-9.7419491E+00					
Phase delay (usec)	-1.05996397779E+02				-5.7299998E-07					
Delay rate (us/s)	-2.28605237413E-02				-2.28606062926E-02					
Total phase (deg)			-253.7		-2.87098733080E-06					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										

ph/seg (deg) 46.0 1.3
 amp/seg (%) 42.6 2.3
 ph/frq (deg) 15.2 0.8
 amp/frq (%) 6.4 1.4
 P: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 164.667 -508.882
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PY.W.314.12BED8
 simultaneous interpolator

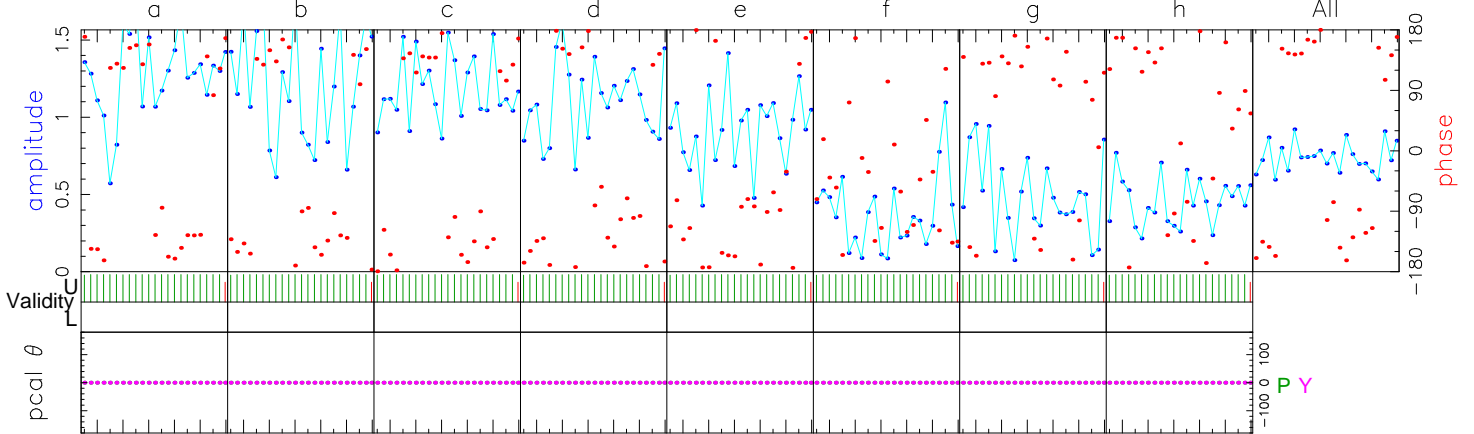


Fringe quality 5

SNR 26.2
 Int time 336.533
 Amp 0.522
 Phase -169.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.001296
 MBD -0.001350
 Fringe rate (Hz)
 0.007018
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

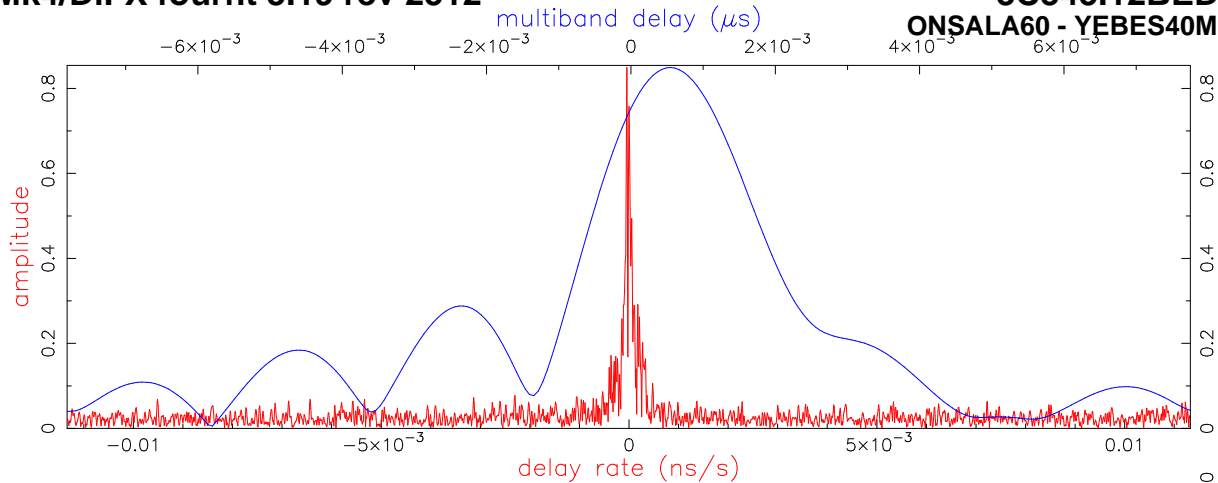
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183122.43
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165700
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

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



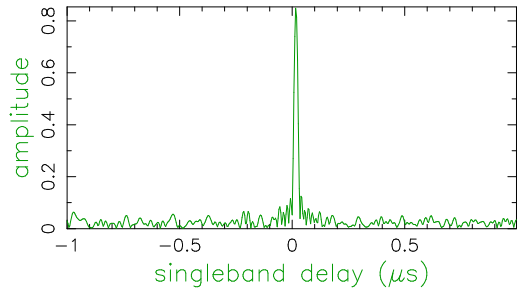
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.9	-170.8	-179.0	-151.3	-137.0	-86.6	154.2	153.3	Phase	-169.3
	0.9	0.8	0.8	0.7	0.6	0.1	0.3	0.2	Ampl.	0.6
	257.0	256.9	256.6	257.1	256.7	17.9	257.0	255.5	Sbd box	256.7
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.05997748003E+02		Apriori delay (usec)		-1.05996398026E+02		Resid mbdelay (usec)		-1.34998E-03	+/- 4.1E-05
Sband delay (usec)	-1.05997694026E+02		Apriori clock (usec)		-9.7419491E+00		Resid sbdelay (usec)		-1.29600E-03	+/- 3.3E-04
Phase delay (usec)	-1.05996403486E+02		Apriori clockrate (us/s)		-5.7299998E-07		Resid phdelay (usec)		-5.45969E-06	+/- 1.4E-07
Delay rate (us/s)	-2.28605248162E-02		Apriori rate (us/s)		-2.28606062926E-02		Resid rate (us/s)		8.14763E-08	+/- 7.2E-10
Total phase (deg)	-70.6		Apriori accel (us/s/s)		-2.87098733080E-06		Resid phase (deg)		-169.3	+/- 4.4

ph/seg (deg) 47.0 10.5 Search (2048X32) 0.505 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.8 18.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.1 6.2 Inc. seg. avg. 0.730 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.1 10.8 Inc. frq. avg. 0.559 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 P: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 164.667 -508.882 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PY.W.330.12BED8

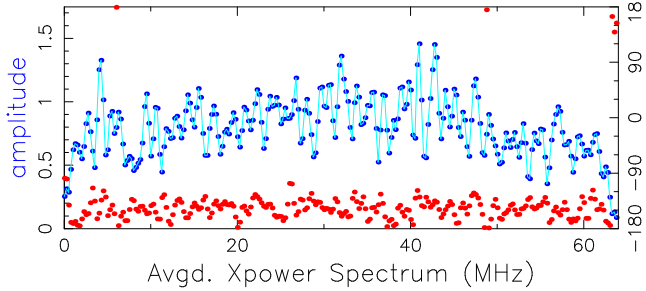


Fringe quality 5

SNR 46.7
Int time 400.155
Amp 0.854
Phase 37.4
PFD 0.0e+00
Delays (us)
SBD 0.016662
MBD 0.000567
Fringe rate (Hz)
-0.003742
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

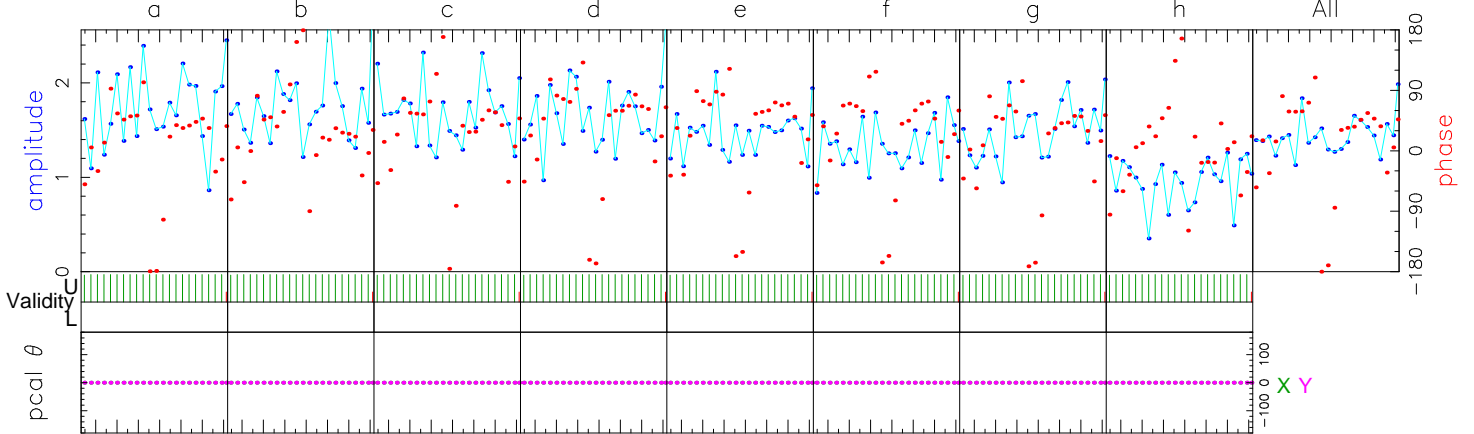


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183018.95
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165657
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

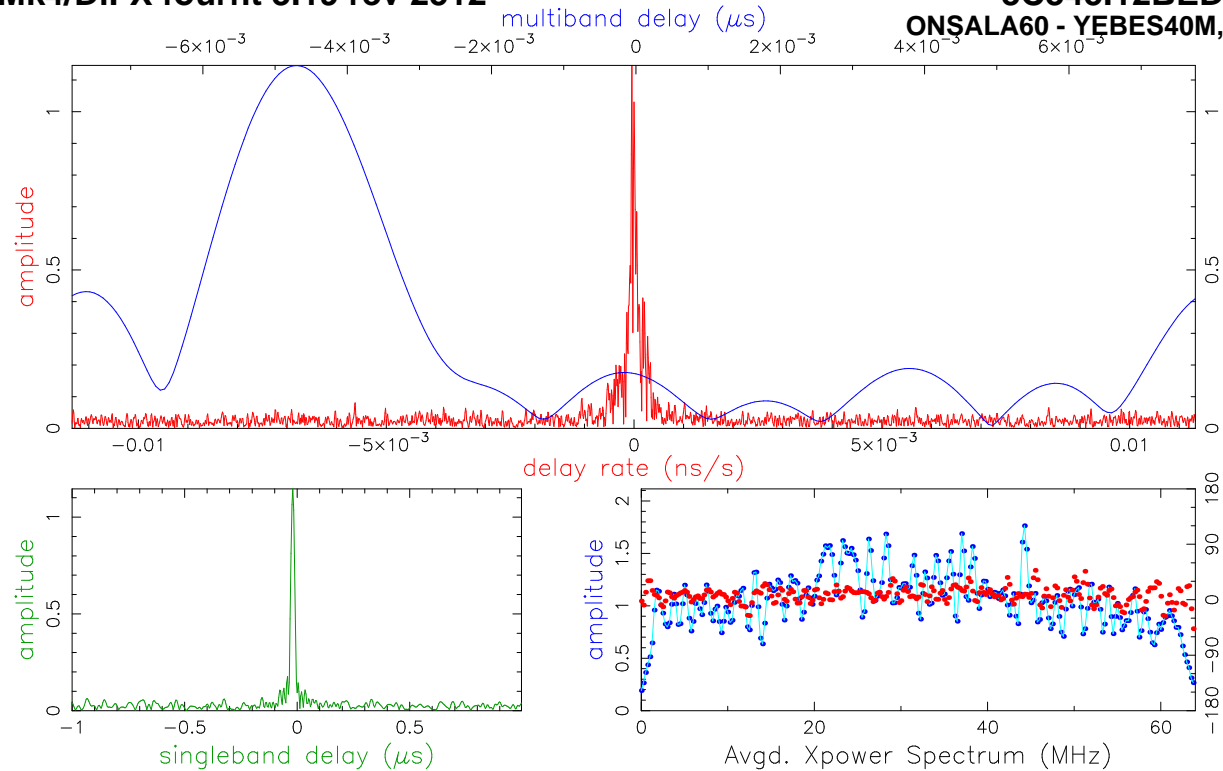


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	32.2	21.6	37.5	61.7	54.7	47.7	35.9	-8.9	Phase	37.4
	1.0	1.1	1.0	1.0	0.9	0.8	0.8	0.6	Ampl.	0.9
	261.0	261.5	261.2	261.6	260.9	261.2	261.0	260.7	Sbd box	261.3
U/L	783/0	783/0	783/0	783/0	783/0	783/0	783/0	783/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.86896485938E+03	Apriori delay (usec)	-1.86898105175E+03	Resid mbdelay (usec)	5.67363E-04	+/-	2.3E-05
Sband delay (usec)	-1.86896439000E+03	Apriori clock (usec)	2.2673275E+01	Resid sbdelay (usec)	1.66618E-02	+/-	1.8E-04
Phase delay (usec)	-1.86898105054E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	1.20611E-06	+/-	7.9E-08
Delay rate (us/s)	3.61590755292E-02	Apriori rate (us/s)	3.61591189695E-02	Resid rate (us/s)	-4.34403E-08	+/-	3.4E-10
Total phase (deg)	-249.7	Apriori accel (us/s/s)	2.39811778223E-05	Resid phase (deg)	37.4	+/-	2.5

ph/seg (deg)	63.0	RMS	Theor.	Amplitude	0.854 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	70.3	63.0	5.9	Search (2048X32)	0.845	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	23.9	70.3	10.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	18.4	23.9	3.5	Inc. seg. avg.	1.422	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011			
		18.4	6.1	Inc. frq. avg.	0.892	Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 263.7 el 53.3 pa 44.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -225.260 2884.494 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XY.W.317.12BED8

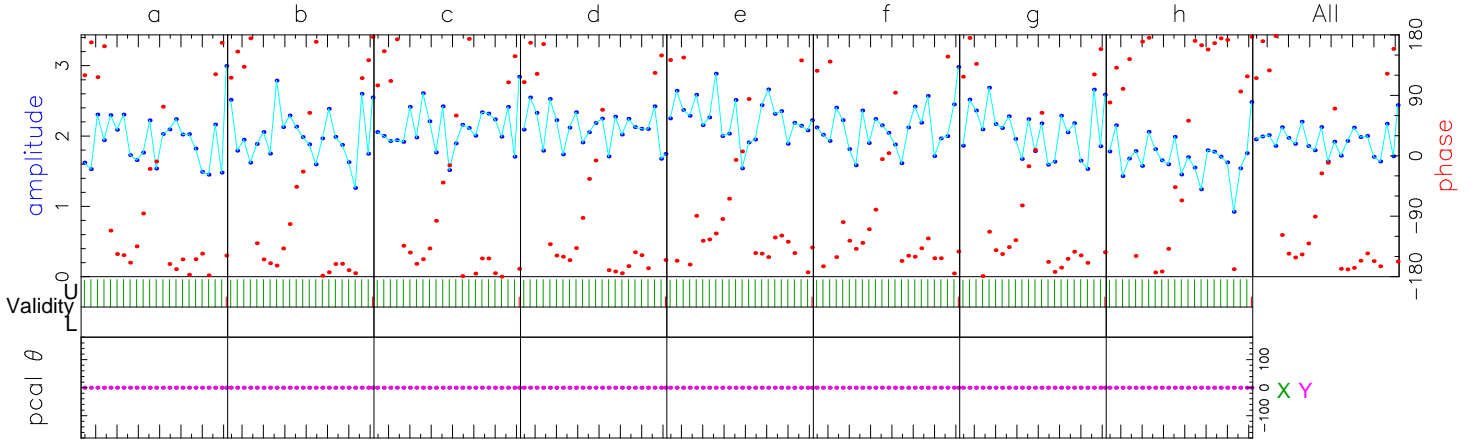


Fringe quality 4

SNR 62.7
Int time 400.155
Amp 1.146
Phase -166.0
PFD 0.0e+00
Delays (us)
SBD -0.019822
MBD -0.004712
Fringe rate (Hz)
-0.003713
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

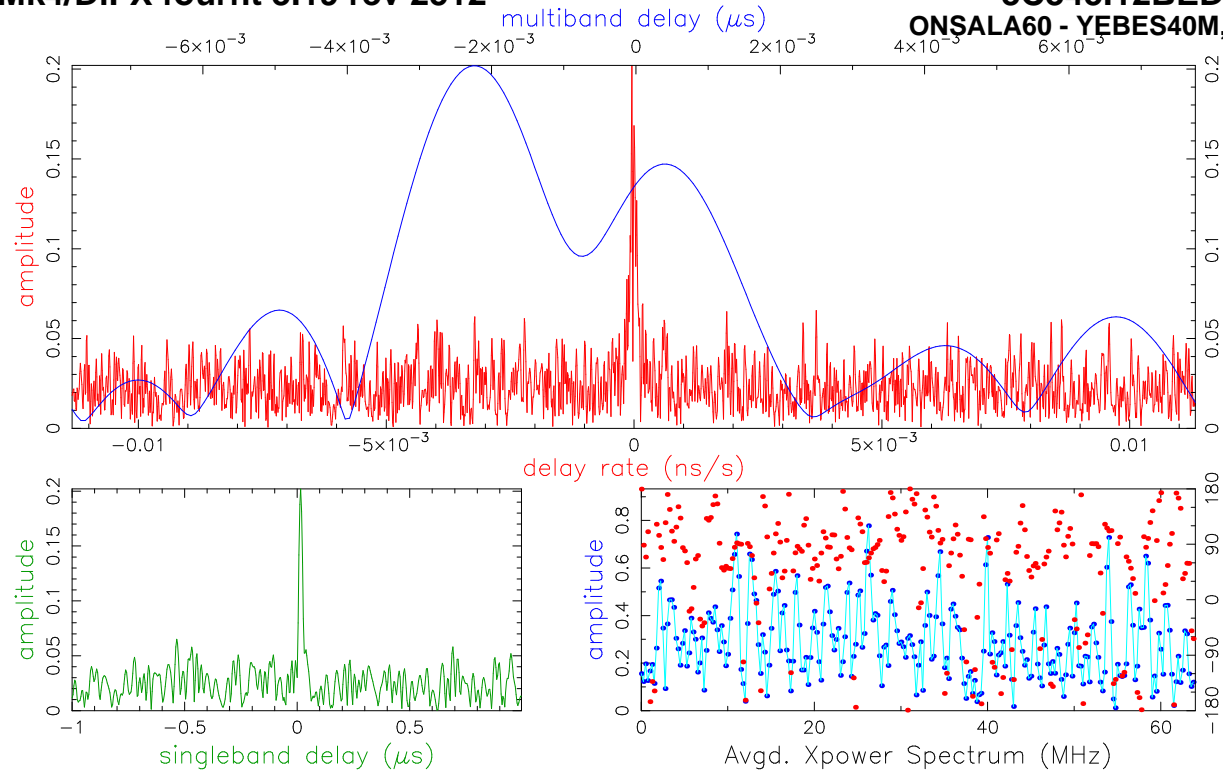
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183018.95
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165701
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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	783/0	783/0	783/0	783/0	783/0	783/0	783/0	783/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.86900138866E+03	-1.86900087375E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03		
Sband delay (usec)	-1.86900087375E+03	-1.86900087375E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03		
Phase delay (usec)	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03	-1.86898105710E+03		
Delay rate (us/s)	3.61590758672E-02	3.61590758672E-02	3.61590758672E-02	3.61590758672E-02	3.61590758672E-02	3.61590758672E-02	3.61590758672E-02	3.61590758672E-02		
Total phase (deg)			-93.1							
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										
nlags: 256										
t_cohere infinite										
ion window (TEC)										
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								

ph/seg (deg) 62.7 4.4 Search (2048X32) 1.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.3 7.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.0 2.6 Inc. seg. avg. 1.927 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 9.7 4.5 Inc. frq. avg. 1.198 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 263.7 el 53.3 pa 44.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -225.260 2884.494 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XY.W.334.12BED8

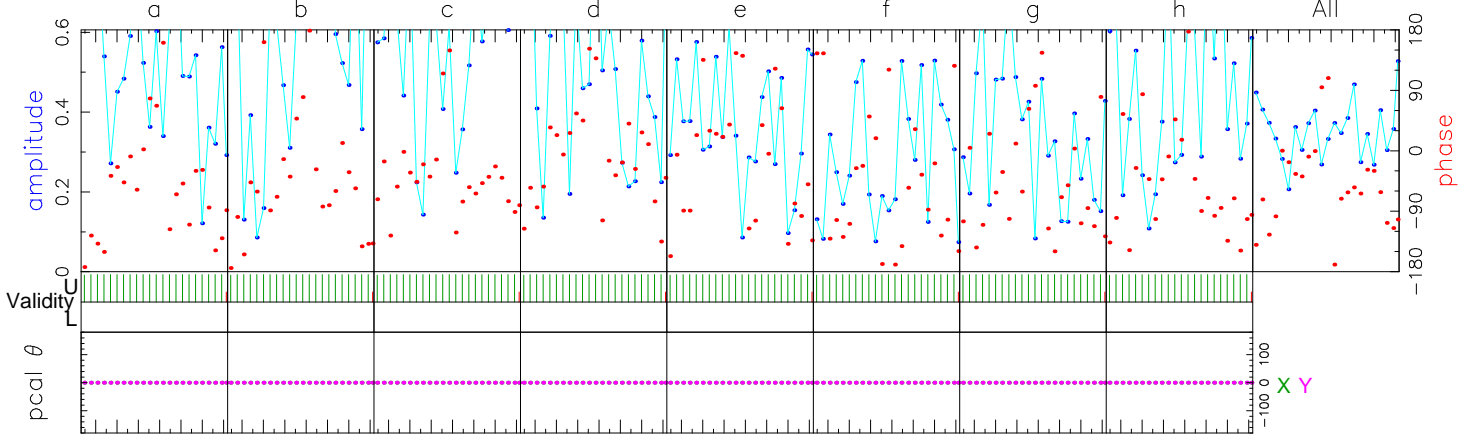


Fringe quality 9

SNR 11.1
Int time 400.155
Amp 0.202
Phase -64.1
PFD 9.8e-20
Delays (us)
SBD 0.015228
MBD -0.002246
Fringe rate (Hz)
-0.003759
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183018.95
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165704
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



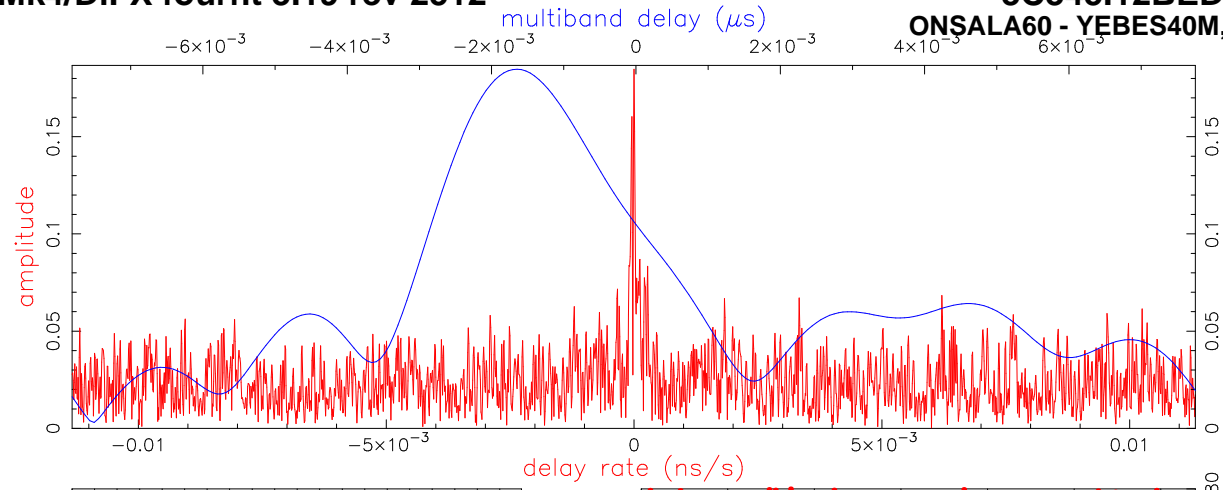
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.4	-85.0	-54.2	-12.9	-1.1	-79.3	-81.2	-79.7	Phase	-64.1
	0.3	0.3	0.4	0.2	0.1	0.1	0.2	0.3	Ampl.	0.2
	260.9	260.7	260.8	261.0	367.6	311.3	394.2	261.7	Sbd box	260.9
U/L	783/0	783/0	783/0	783/0	783/0	783/0	783/0	783/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.86896767229E+03	Apriori delay (usec)	-1.86898105175E+03	Resid mbdelay (usec)	-2.24554E-03	+/-	9.8E-05
Sband delay (usec)	-1.86896582350E+03	Apriori clock (usec)	2.2673275E+01	Resid sbdelay (usec)	1.52283E-02	+/-	7.8E-04
Phase delay (usec)	-1.86898105381E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-2.06783E-06	+/-	3.3E-07
Delay rate (us/s)	3.61590753273E-02	Apriori rate (us/s)	3.61591189695E-02	Resid rate (us/s)	-4.36422E-08	+/-	1.4E-09
Total phase (deg)	-351.2	Apriori accel (us/s/s)	2.39811778223E-05	Resid phase (deg)	-64.1	+/-	10.4

ph/seg (deg)	66.5	Theor.	24.9	Amplitude	0.202 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	79.9		43.4	Search (2048X32)	0.197	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	37.3		14.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	49.5		25.6	Inc. seg. avg.	0.319	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.220	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 263.7 el 53.3 pa 44.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -225.260 2884.494 simultaneous interpolator

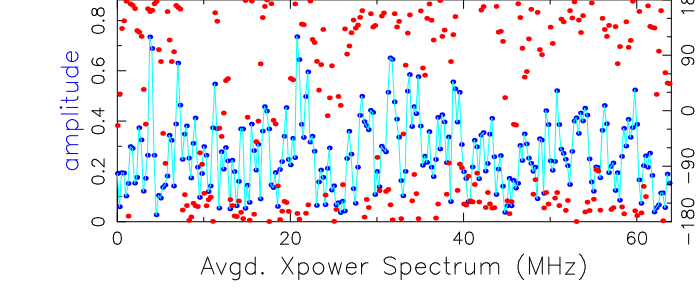
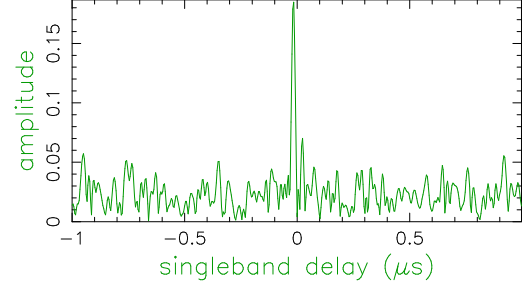
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XY.W.346.12BED8



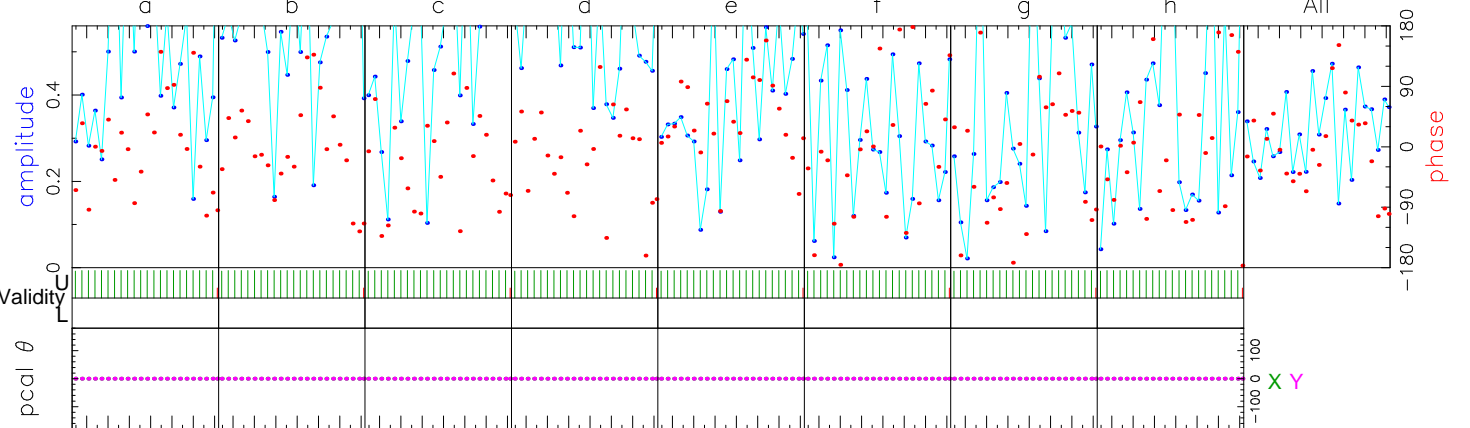
Fringe quality 9

SNR 10.2
Int time 400.155
Amp 0.187
Phase -2.6
PFD 7.6e-16
Delays (us)
SBD -0.016935
MBD -0.001685
Fringe rate (Hz) 0.000029
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183018.95
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:072:124544
2020:086:165708
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

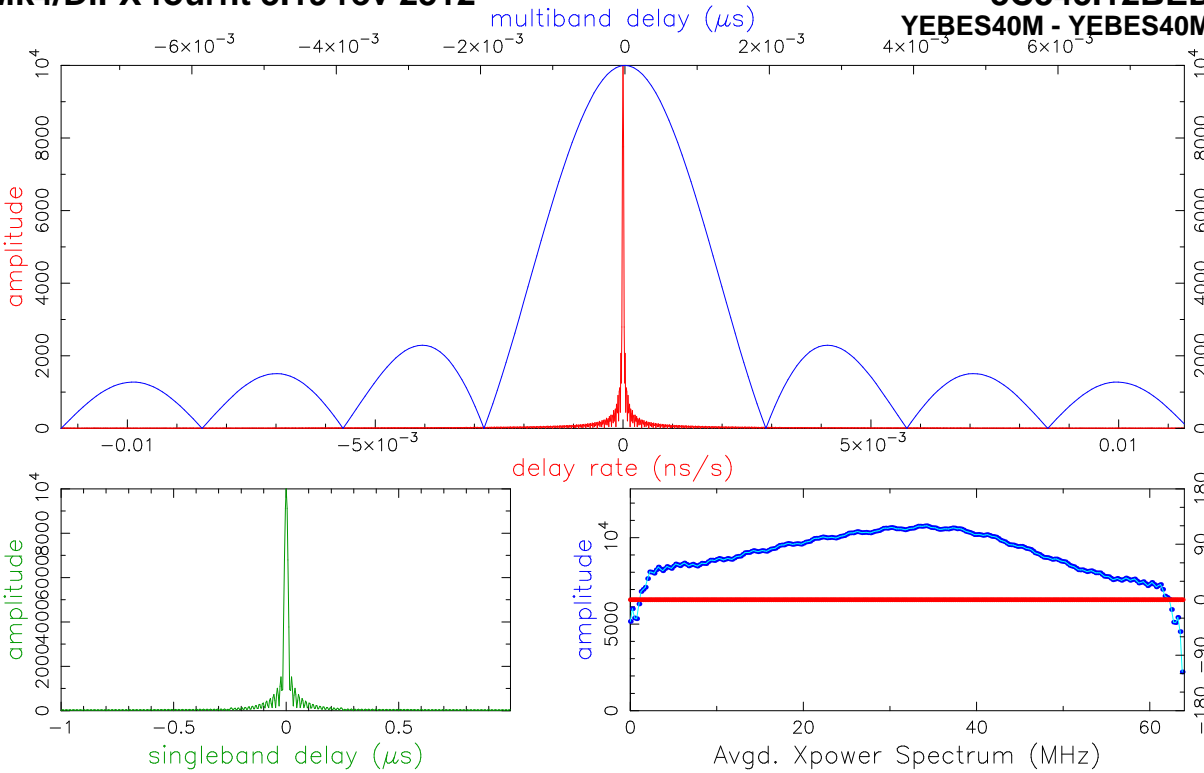


Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.3	-2.5	-24.3	-5.3	52.6	-10.2	42.0	-47.9		Phase -2.6
	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1		Ampl. 0.2
	252.8	252.1	252.7	252.1	253.1	137.0	143.2	100.7		Sbd box 252.7
U/L	783/0	783/0	783/0	783/0	783/0	783/0	783/0	783/0		APs used
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	-1.86899836200E+03		Apriori delay (usec)		-1.86898105175E+03		Resid mbdelay (usec)		-1.68525E-03	+/- 1.1E-04
Sband delay (usec)	-1.86899798725E+03		Apriori clock (usec)		2.2673275E+01		Resid sbdelay (usec)		-1.69355E-02	+/- 8.4E-04
Phase delay (usec)	-1.86898105183E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		-8.23238E-08	+/- 3.6E-07
Delay rate (us/s)	3.61591193081E-02		Apriori rate (us/s)		3.61591189695E-02		Resid rate (us/s)		3.38691E-10	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.39811778223E-05		Resid phase (deg)		-2.6	+/- 11.2

ph/seg (deg) 62.5 26.9 Search (2048X32) 0.183 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.7 47.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.7 15.9 Inc. seg. avg. 0.288 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.6 27.7 Inc. frq. avg. 0.199 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 263.7 el 53.3 pa 44.2 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -225.260 2884.494 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XY.W.356.12BED8

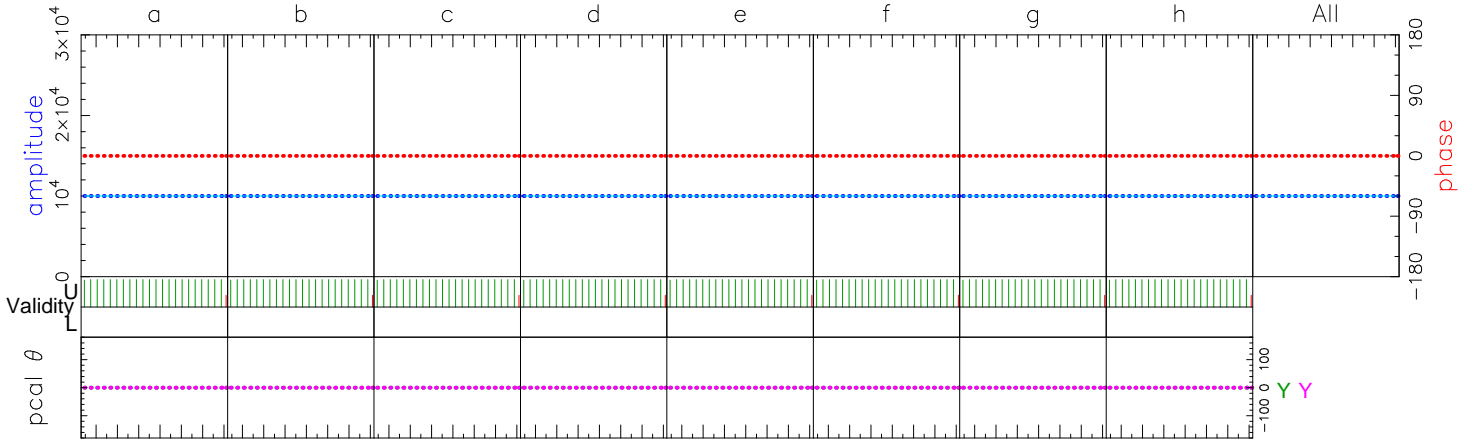


Fringe quality 9

SNR 547824.7
 Int time 401.317
 Amp 10000.000
 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
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165656
 2020:014:135814
 RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

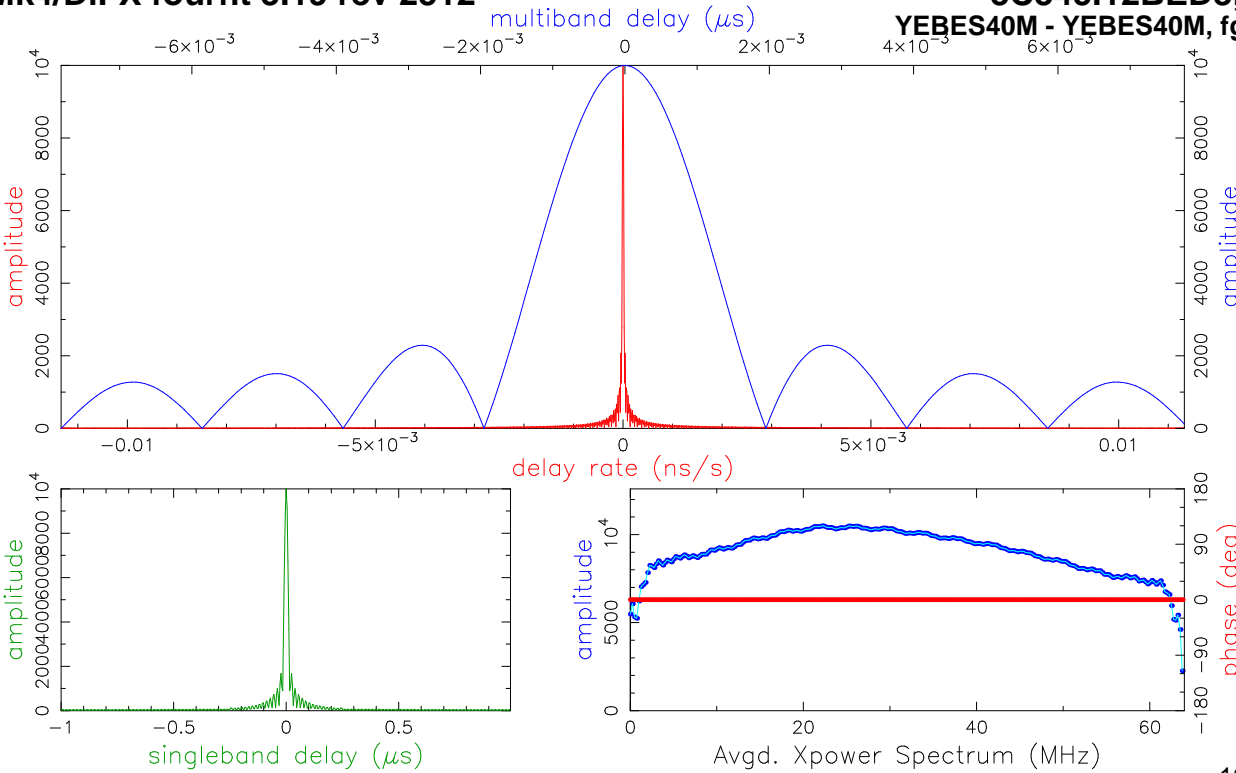
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	-0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.6E-08
Phase delay (usec)	-1.48310823385E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.48311E-20	+/-	6.7E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Y: az 280.2 el 62.9 pa 76.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 0.000 0.000 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/YY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/YY.W.310.12BED8 simultaneous interpolator

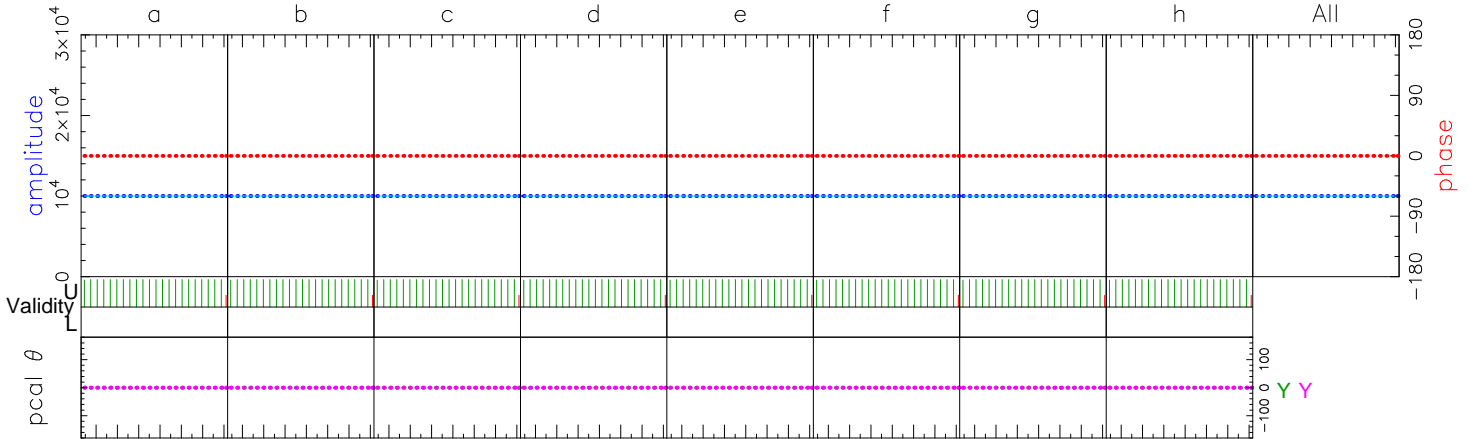


Fringe quality 9

SNR 547824.7
 Int time 401.317
 Amp 10000.000
 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
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165700
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

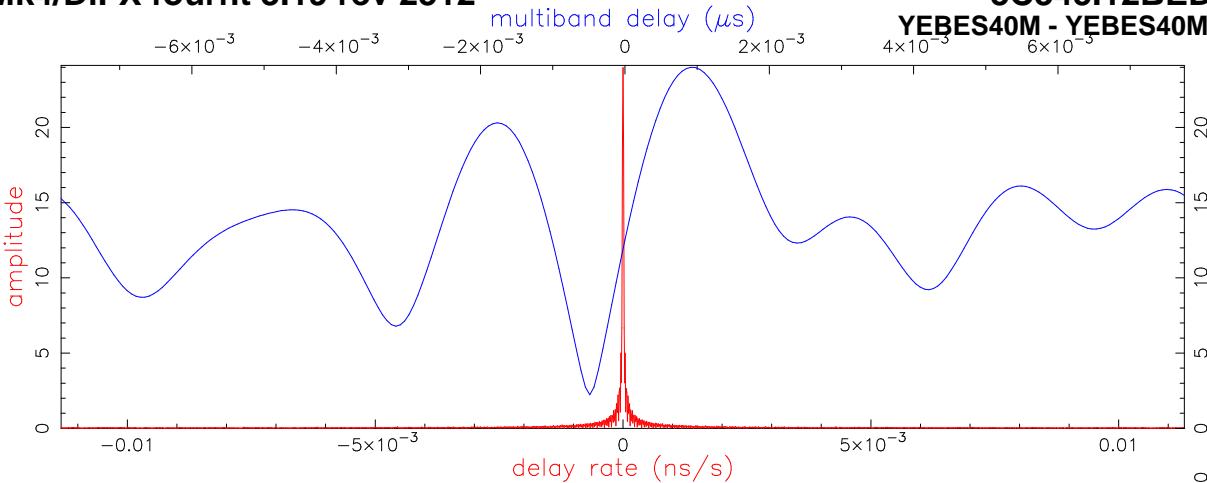
Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

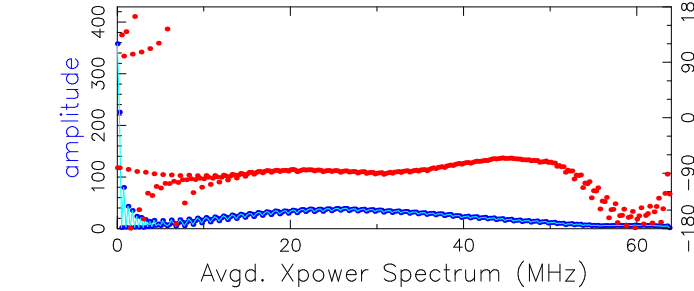
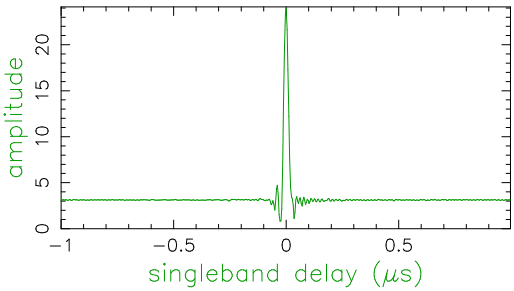
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.6E-08
Phase delay (usec)	2.67899028206E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.67899E-20	+/-	6.7E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Y: az 280.2 el 62.9 pa 76.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/YY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/YY.W.327.12BED8 simultaneous interpolator



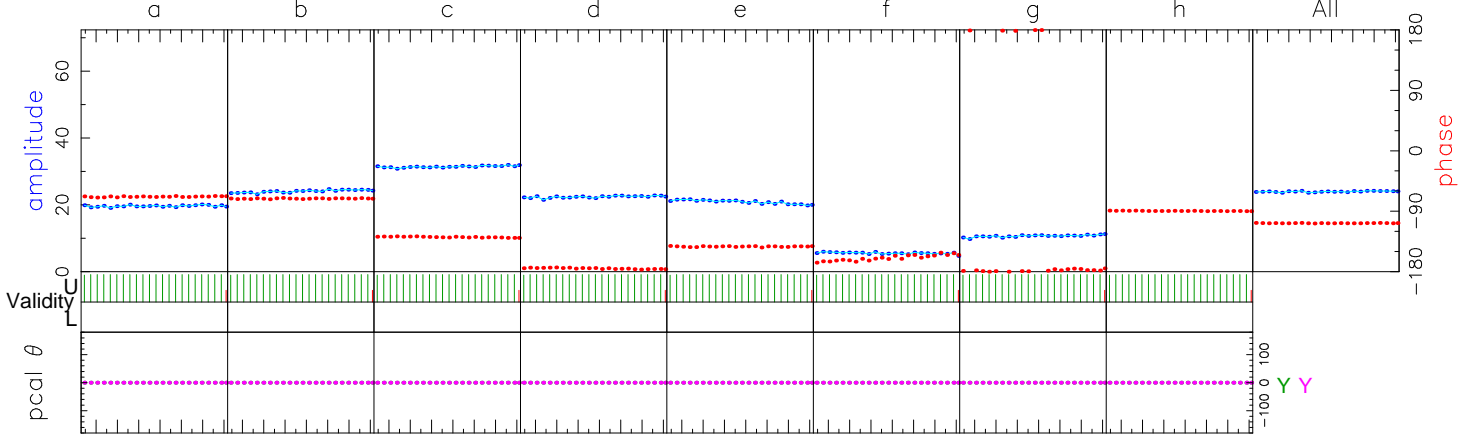
Fringe quality 5

SNR 1321.5
 Int time 401.317
 Amp 24.124
 Phase -107.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.001145
 MBD 0.000896
 Fringe rate (Hz)
 0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



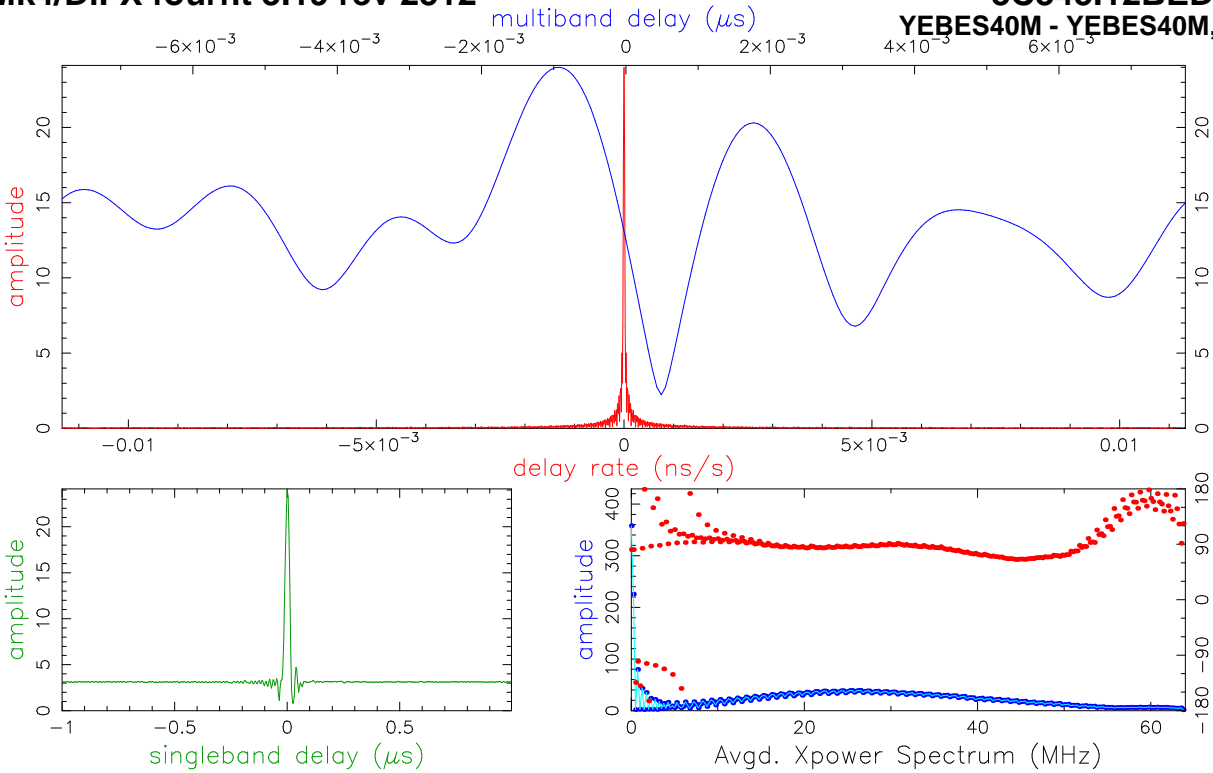
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165703
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

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
	-68.3	-71.1	-128.4	-175.0	-142.5	-159.6	-178.5	-89.5	Phase	-107.7
	19.7	24.1	31.4	22.4	20.9	5.6	10.7	100.2	Ampl.	29.4
	257.5	256.4	256.5	257.2	255.1	250.6	254.7	257.2	Sbd box	256.7
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.95968750000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		8.95969E-04	+/- 8.2E-07
Sband delay (usec)	-1.14475000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.14475E-03	+/- 6.5E-06
Phase delay (usec)	-3.47253757038E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.47254E-06	+/- 2.8E-09
Delay rate (us/s)	9.91980667418E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		9.91981E-12	+/- 1.2E-11
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-107.7	+/- 0.1

RMS Theor. Amplitude 24.124 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.2 Search (2048X32) 23.978 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.9 0.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 53.4 0.1 Inc. seg. avg. 23.987 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 117.3 0.2 Inc. frq. avg. 29.372 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Y: az 280.2 el 62.9 pa 76.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/YY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/YY.W.342.12BED8

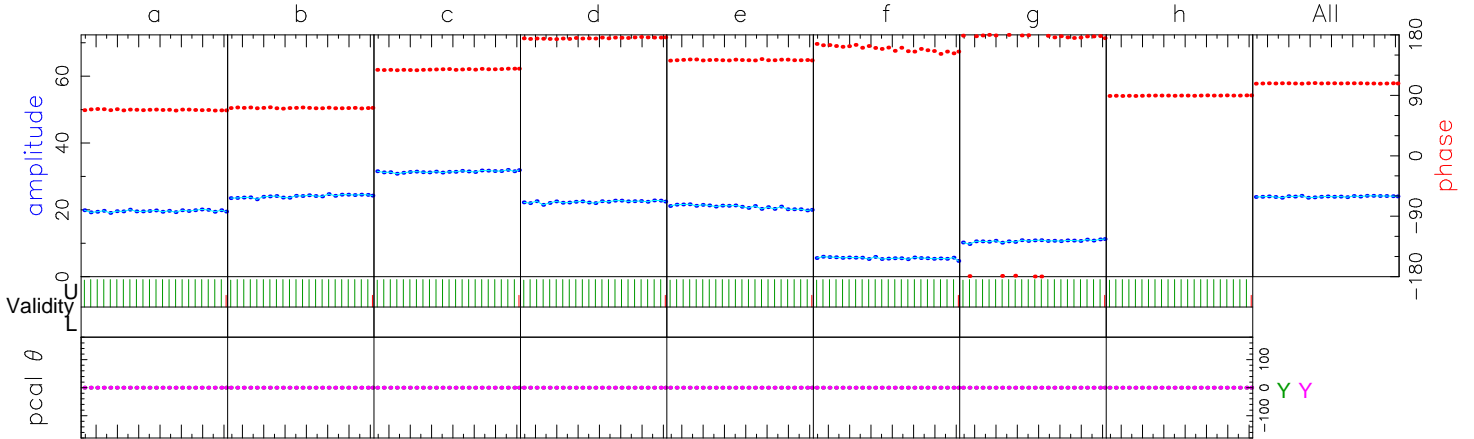


Fringe quality 5

SNR 1321.5
 Int time 401.317
 Amp 24.124
 Phase 107.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.001145
 MBD -0.000896
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

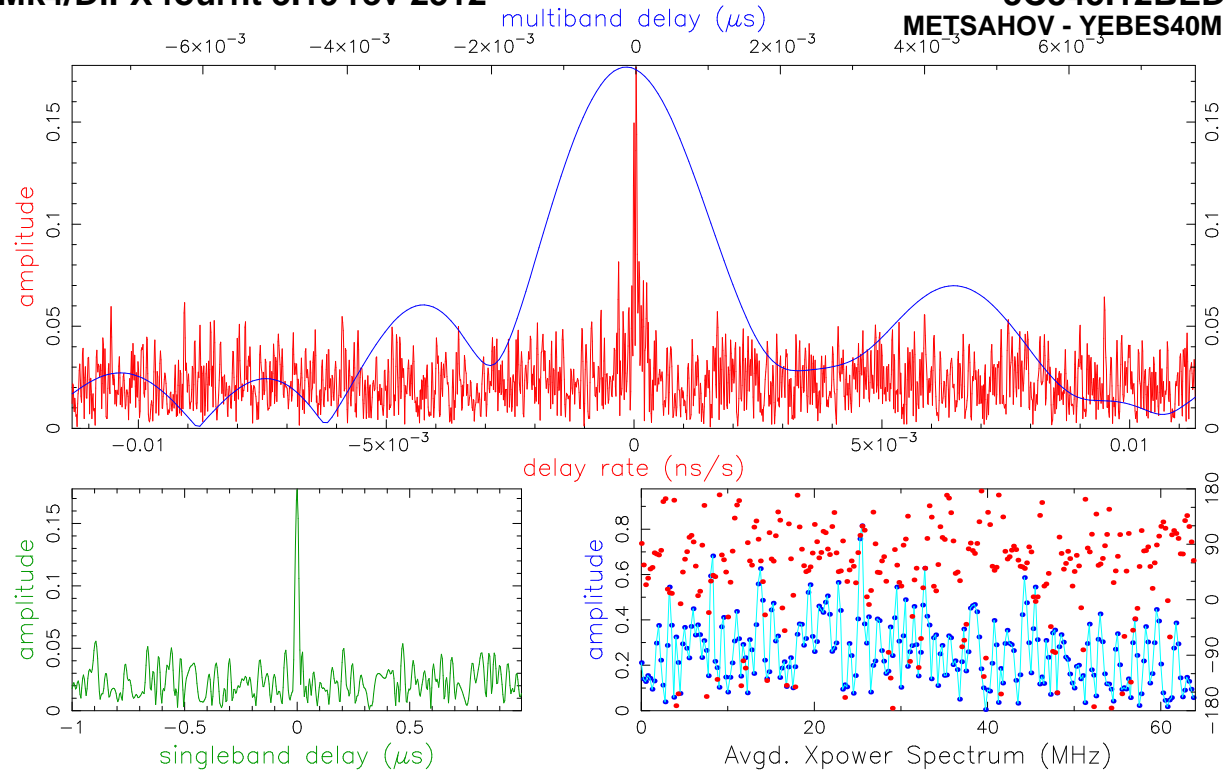
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165706
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

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
	68.3	71.1	128.4	175.0	142.5	159.6	178.5	89.5	Phase	107.7
	19.7	24.1	31.4	22.4	20.9	5.6	10.7	100.2	Ampl.	29.4
	256.5	257.6	257.5	256.8	258.9	263.4	259.3	256.8	Sbd box	257.3
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.95968750000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-8.95969E-04	+/- 8.2E-07
Sband delay (usec)	1.14475000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.14475E-03	+/- 6.5E-06
Phase delay (usec)	3.47253757027E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.47254E-06	+/- 2.8E-09
Delay rate (us/s)	-9.91980667418E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-9.91981E-12	+/- 1.2E-11
Total phase (deg)	107.7		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		107.7	+/- 0.1

ph/seg (deg) 0.2 0.2 Search (2048X32) 23.978 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.9 0.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 53.4 0.1 Inc. seg. avg. 23.987 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 117.3 0.2 Inc. frq. avg. 29.372 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Y: az 280.2 el 62.9 pa 76.6 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/YY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/YY.W.352.12BED8

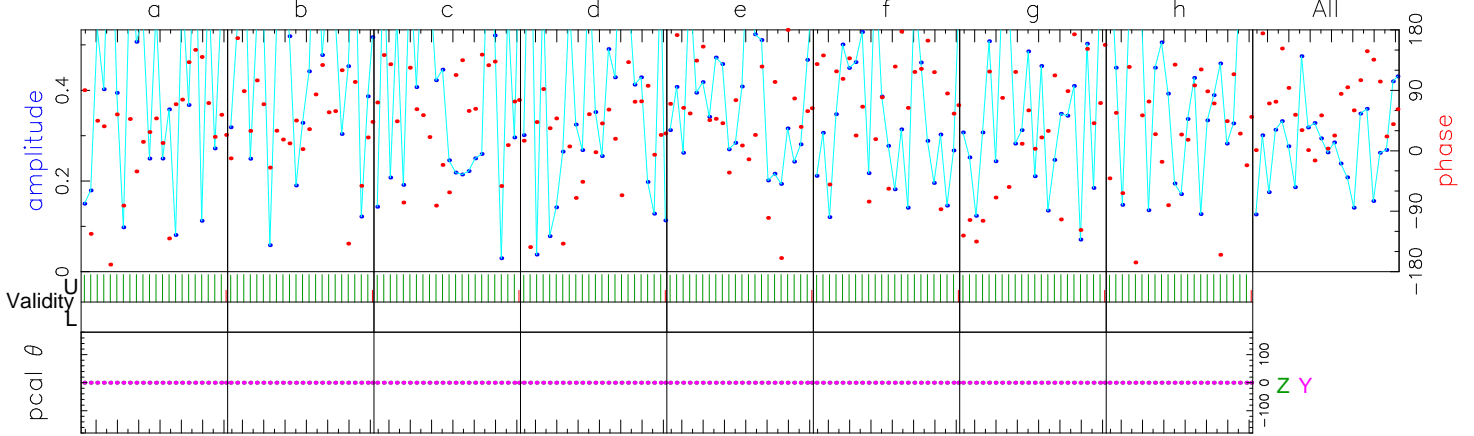


Fringe quality 9

SNR 9.7
 Int time 400.959
 Amp 0.178
 Phase 64.8
 PFD 8.8e-14
 Delays (us)
 SBD -0.000876
 MBD -0.000146
 Fringe rate (Hz) 0.003731
 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
 2020:086:165701
 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



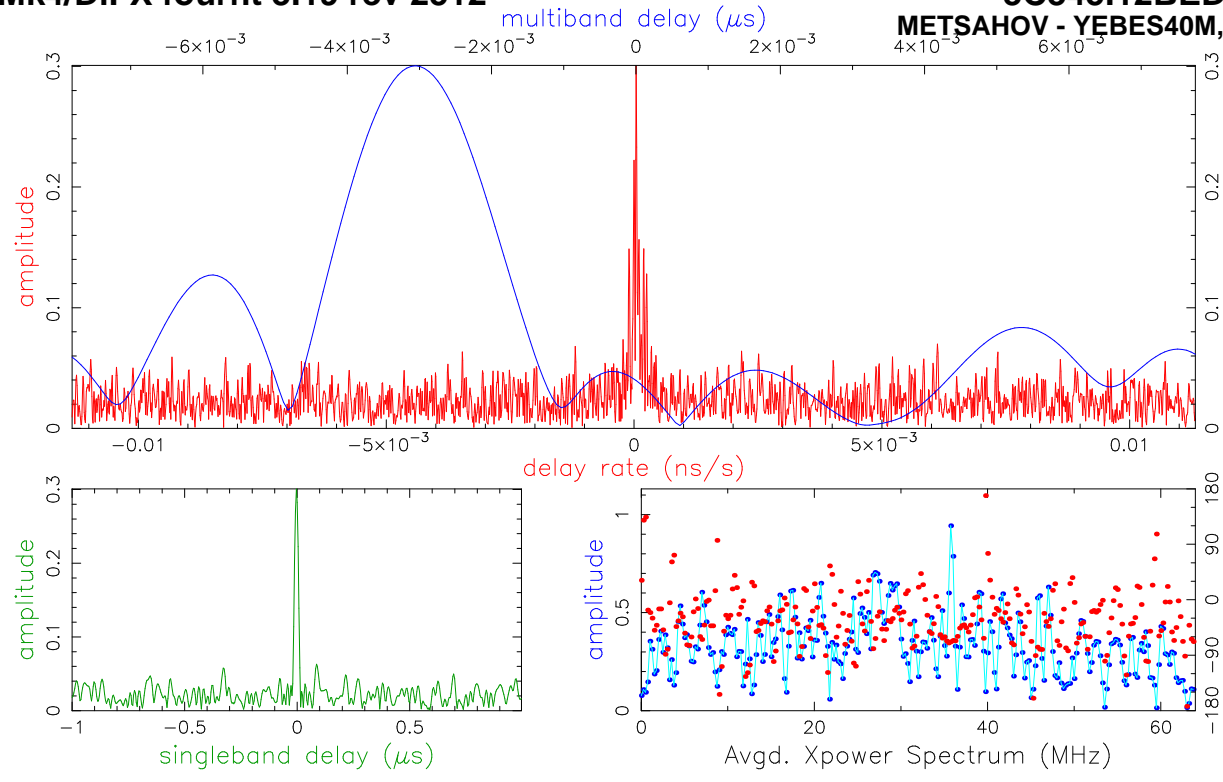
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	Phase	64.8
Z	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.2
Y	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	256.8
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.47819764925E+03	Apriori delay (usec)	-3.47819750350E+03	Resid mbdelay (usec)	-1.45755E-04	+/-	1.1E-04
Sband delay (usec)	-3.47819838000E+03	Apriori clock (usec)	-9.4697704E-07	Resid sbdelay (usec)	-8.76500E-04	+/-	8.8E-04
Phase delay (usec)	-3.47819750141E+03	Apriori clockrate (us/s)	-2.0370720E-07	Resid phdelay (usec)	2.08913E-06	+/-	3.8E-07
Delay rate (us/s)	6.82530482583E-03	Apriori rate (us/s)	6.82526151312E-03	Resid rate (us/s)	4.33127E-08	+/-	1.6E-09
Total phase (deg)	-277.7	Apriori accel (us/s/s)	3.42149709366E-05	Resid phase (deg)	64.8	+/-	11.8

ph/seg (deg)	52.1	RMS	28.2	Theor.	0.178 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	75.3	Search (2048X32)	0.175	Amplitude	0.178 +/- 0.018	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	21.7	Interp.	0.000	Search	0.175	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	35.0	Inc. seg. avg.	0.249	Inc. seg. avg.	0.249	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.178	Inc. frq. avg.	0.178	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

Z: az 271.4 el 46.7 pa 40.3 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 11.248 3725.235 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/ZY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ZY.W.333.12BED8

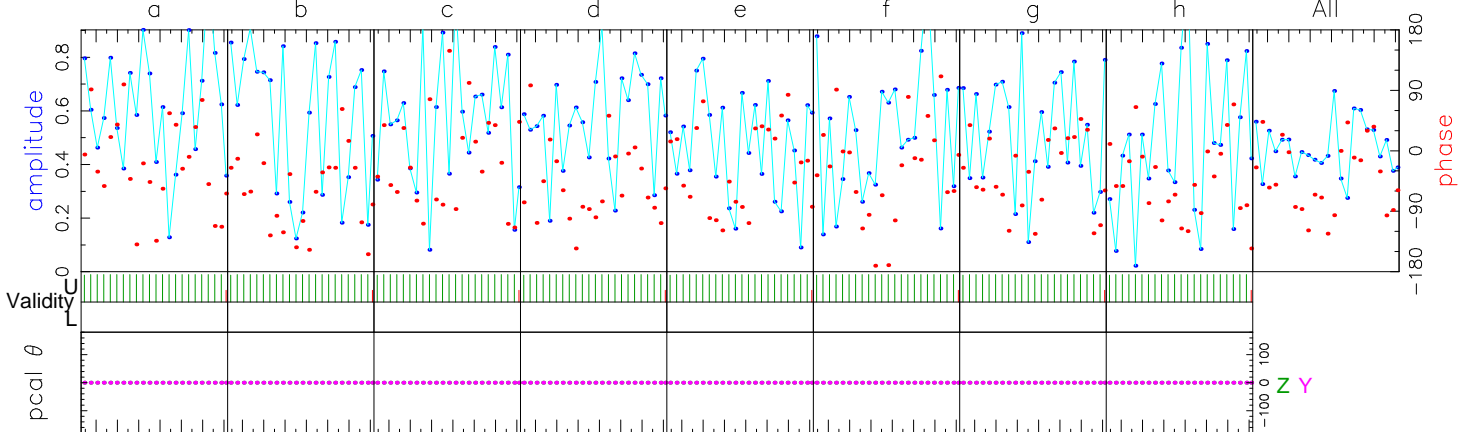


Fringe quality 9

SNR 16.5
 Int time 400.959
 Amp 0.301
 Phase -39.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.003390
 MBD -0.003043
 Fringe rate (Hz) 0.003657
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

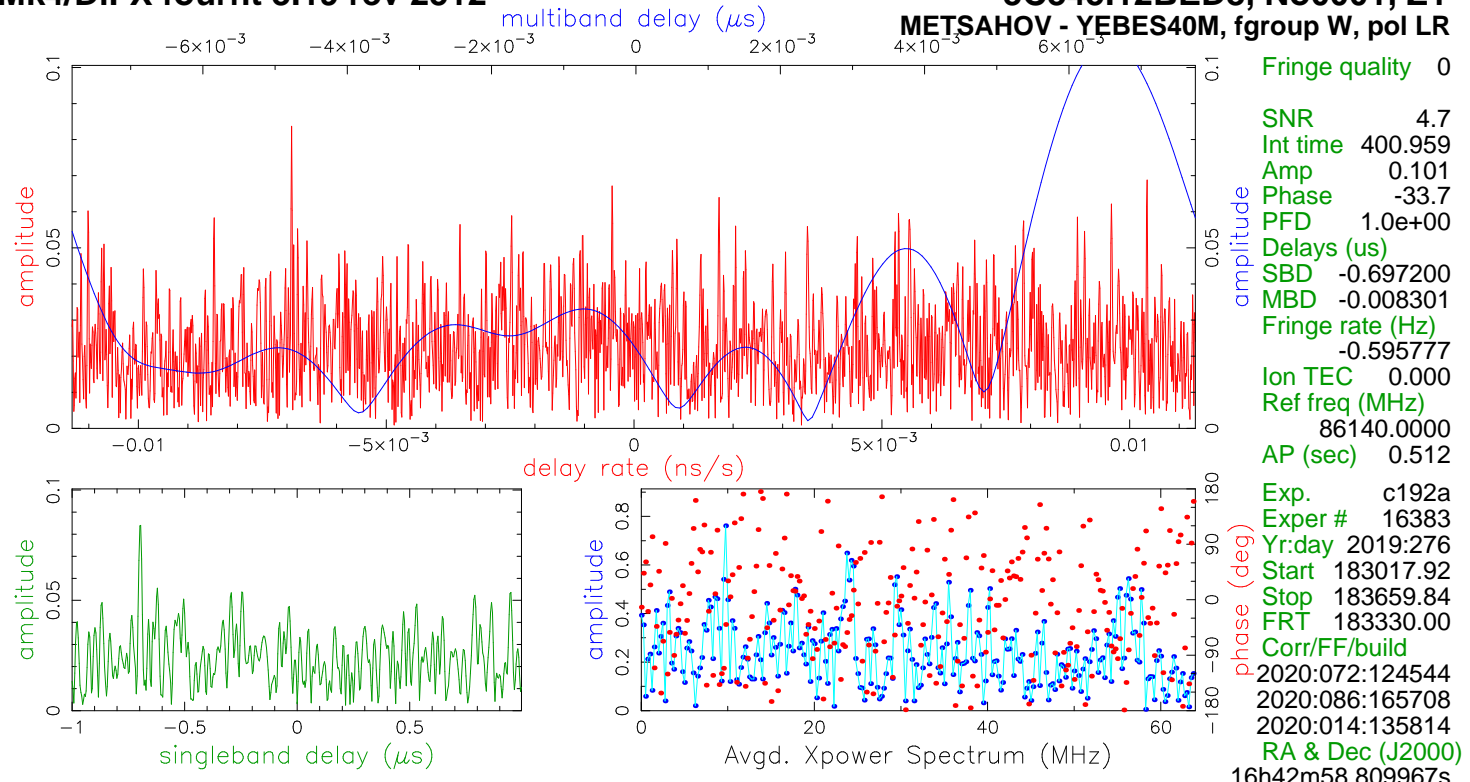
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165704
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

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



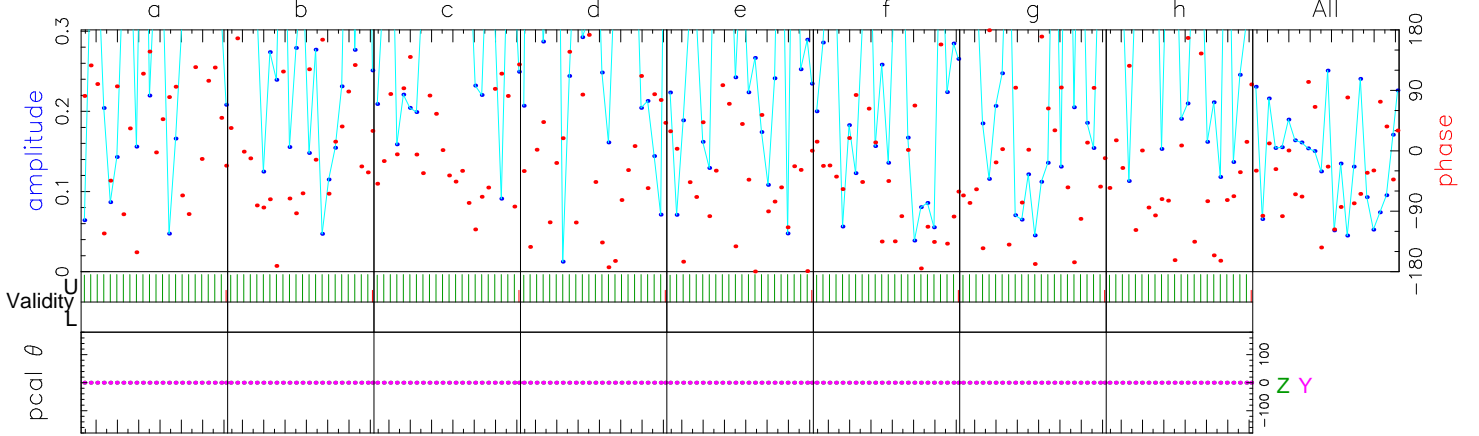
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.9	-53.9	-33.7	-61.3	-14.8	-26.6	-30.4	-55.9	Phase	-39.7
	0.3	0.4	0.3	0.4	0.2	0.3	0.3	0.3	Ampl.	0.3
	256.5	255.8	256.1	255.8	255.6	255.8	256.1	256.0	Sbd box	256.1
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	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)	-3.47820054606E+03		Apriori delay (usec)		-3.47819750350E+03		Resid mbdelay (usec)		-3.04257E-03	+/- 6.6E-05
Sband delay (usec)	-3.47820089375E+03		Apriori clock (usec)		-9.4697704E+00		Resid sbdelay (usec)		-3.39025E-03	+/- 5.2E-04
Phase delay (usec)	-3.47819750478E+03		Apriori clockrate (us/s)		-2.0370720E-07		Resid phdelay (usec)		-1.27915E-06	+/- 2.2E-07
Delay rate (us/s)	6.82530396635E-03		Apriori rate (us/s)		6.82526151312E-03		Resid rate (us/s)		4.24532E-08	+/- 9.7E-10
Total phase (deg)			Apriori accel (us/s/s)		3.42149709366E-05		Resid phase (deg)		-39.7	+/- 7.0

ph/seg (deg) 52.2 16.7 Search (2048X32) 0.295 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.6 29.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.5 9.8 Inc. seg. avg. 0.444 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.1 17.2 Inc. frq. avg. 0.308 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 271.4 el 46.7 pa 40.3 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 11.248 3725.235 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/ZY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ZY.W.345.12BED8 simultaneous interpolator



Fringe quality 0
 SNR 4.7
 Int time 400.959
 Amp 0.101
 Phase -33.7
 PFD 1.0e+00
 Delays (us)
 SBD -0.697200
 MBD -0.008301
 Fringe rate (Hz)
 -0.595777
 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
 2020:086:165708
 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



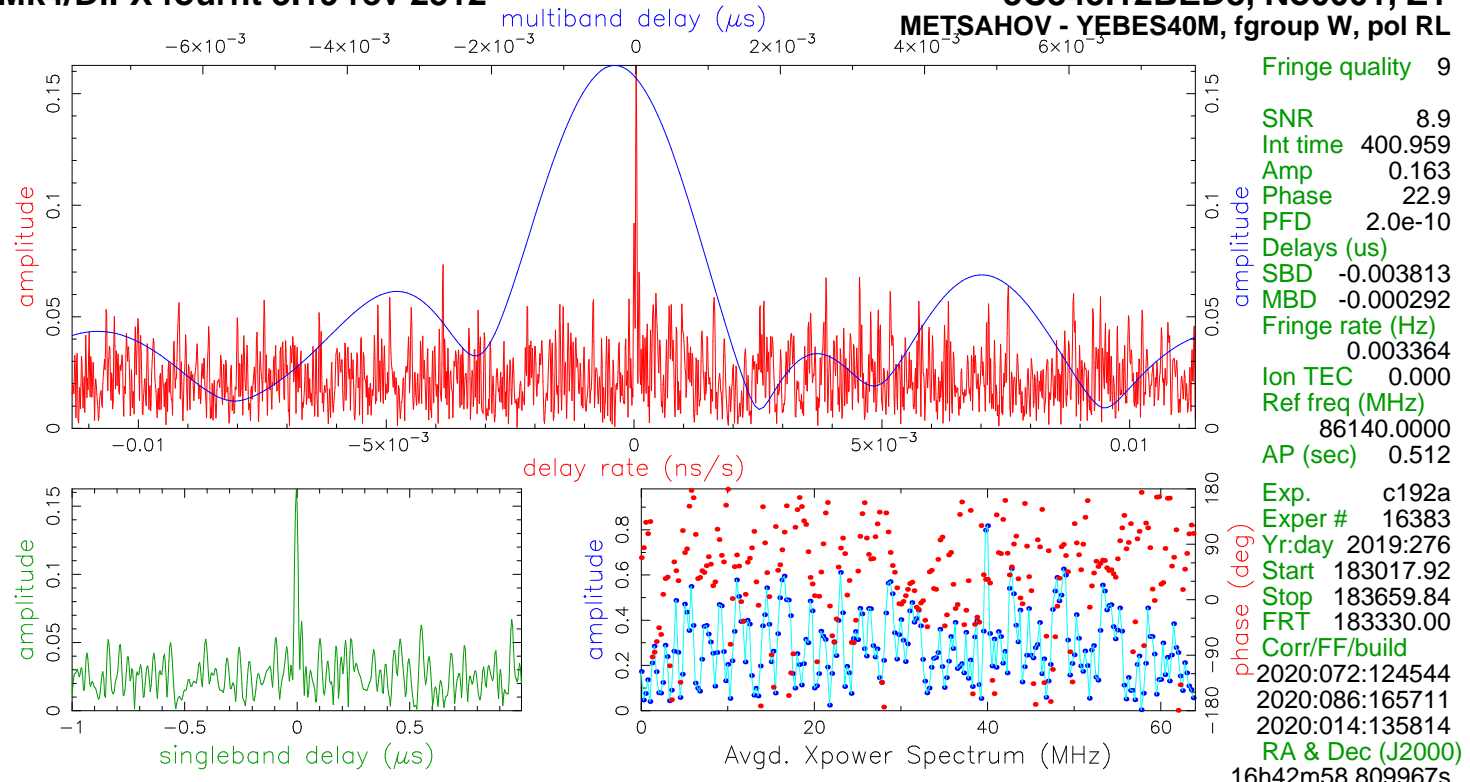
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-3.47889330428E+03	Apriori delay (usec)	-3.47819750350E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	2.3E-04
Sband delay (usec)	-3.47889470325E+03	Apriori clock (usec)	-9.4697704E-07	Resid sbdelay (usec)	-6.97200E-01	+/-	1.8E-03
Phase delay (usec)	-3.47819750459E+03	Apriori clockrate (us/s)	-2.0370720E-07	Resid phdelay (usec)	-1.08820E-06	+/-	7.9E-07
Delay rate (us/s)	6.81834512915E-03	Apriori rate (us/s)	6.82526151312E-03	Resid rate (us/s)	-6.91638E-06	+/-	3.4E-09
Total phase (deg)	-16.2	Apriori accel (us/s/s)	3.42149709366E-05	Resid phase (deg)	-33.7	+/-	24.4

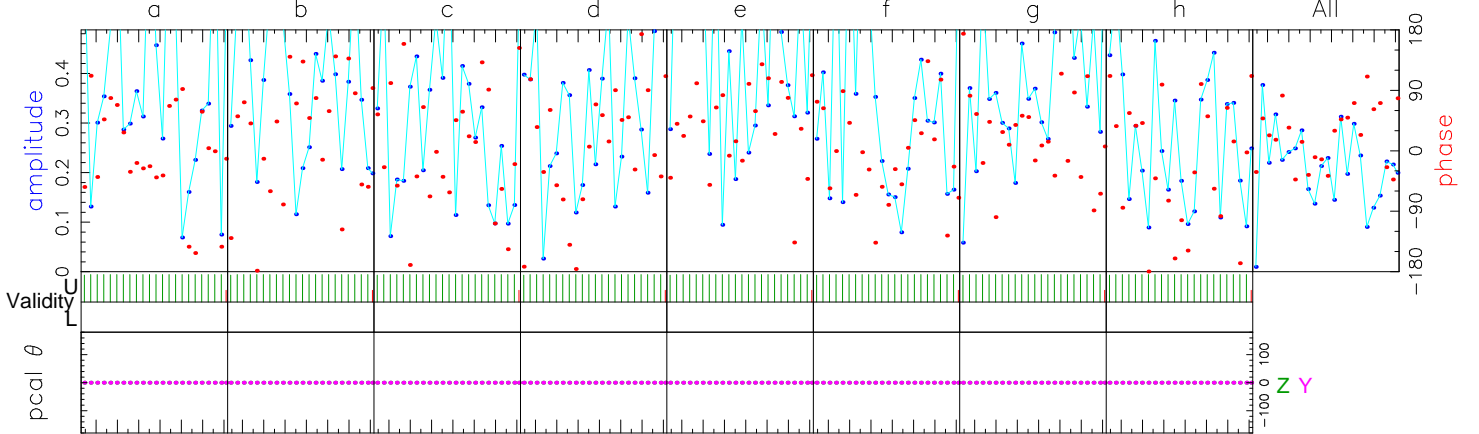
ph/seg (deg)	65.9	Theor.	58.4	Amplitude	0.101 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	97.1		102.0	Search (2048X32)	0.107	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	57.6		34.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	45.4		60.2	Inc. seg. avg.	0.110	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.116	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 271.4 el 46.7 pa 40.3 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 11.248 3725.235 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/ZY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ZY.W.355.12BED8



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
	12.1	53.5	-13.7	24.5	48.3	6.9	12.7	26.5	Phase	22.9
	0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.1	Ampl.	0.2
	255.4	398.9	12.0	244.4	256.6	256.4	218.4	301.6	Sbd box	256.0
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.47819779513E+03		Apriori delay (usec)		-3.47819750350E+03		Resid mbdelay (usec)		-2.91630E-04	+/- 1.2E-04
Sband delay (usec)	-3.47820131600E+03		Apriori clock (usec)		-9.4697704E-07		Resid sbdelay (usec)		-3.81250E-03	+/- 9.7E-04
Phase delay (usec)	-3.47819750276E+03		Apriori clockrate (us/s)		-2.0370720E-07		Resid phdelay (usec)		7.37508E-07	+/- 4.1E-07
Delay rate (us/s)	6.82530057023E-03		Apriori rate (us/s)		6.82526151312E-03		Resid rate (us/s)		3.90571E-08	+/- 1.8E-09
Total phase (deg)	-319.6		Apriori accel (us/s/s)		3.42149709366E-05		Resid phase (deg)		22.9	+/- 12.9

	RMS	Theor.	Amplitude	0.163 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	44.3	30.9	Search (2048X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	57.7	53.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	23.8	18.2	Inc. seg. avg.	0.185	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	41.3	31.8	Inc. frq. avg.	0.165	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

Z: az 271.4 el 46.7 pa 40.3 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 11.248 3725.235 simultaneous interpolator