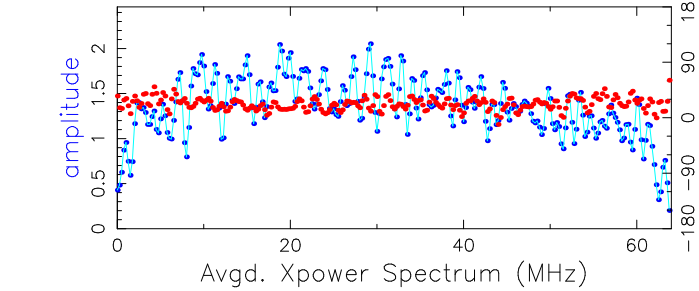
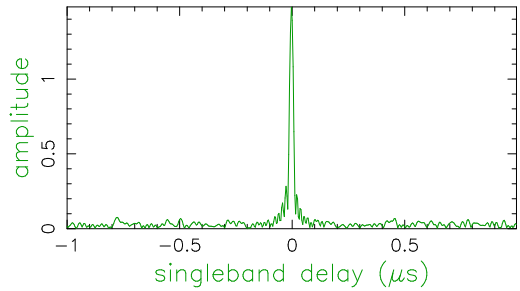


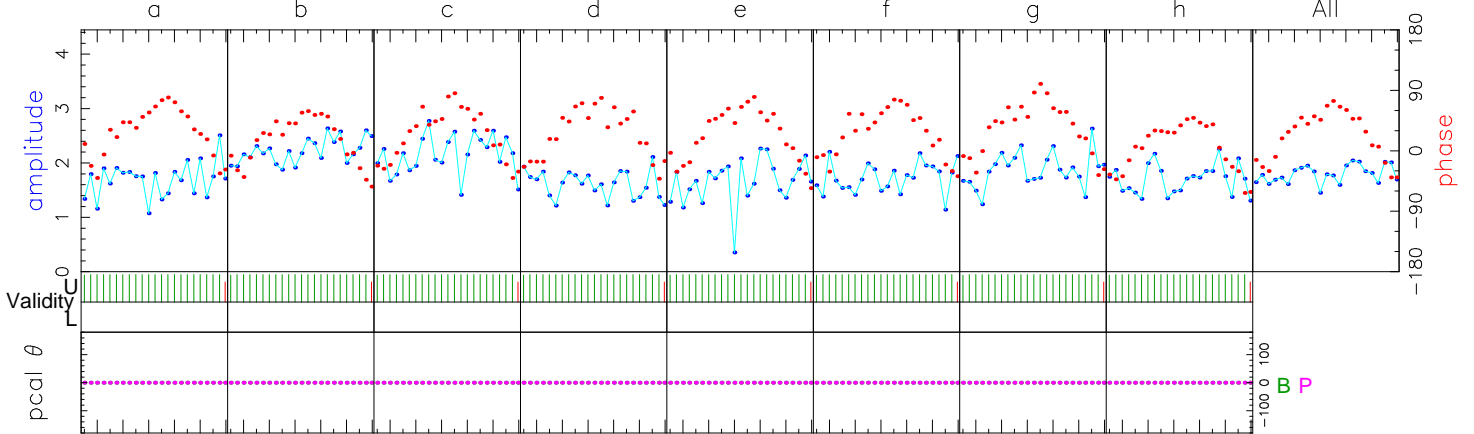
Fringe quality 6

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



Exp. c192a
Yr:day 16383
Xr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165548
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



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

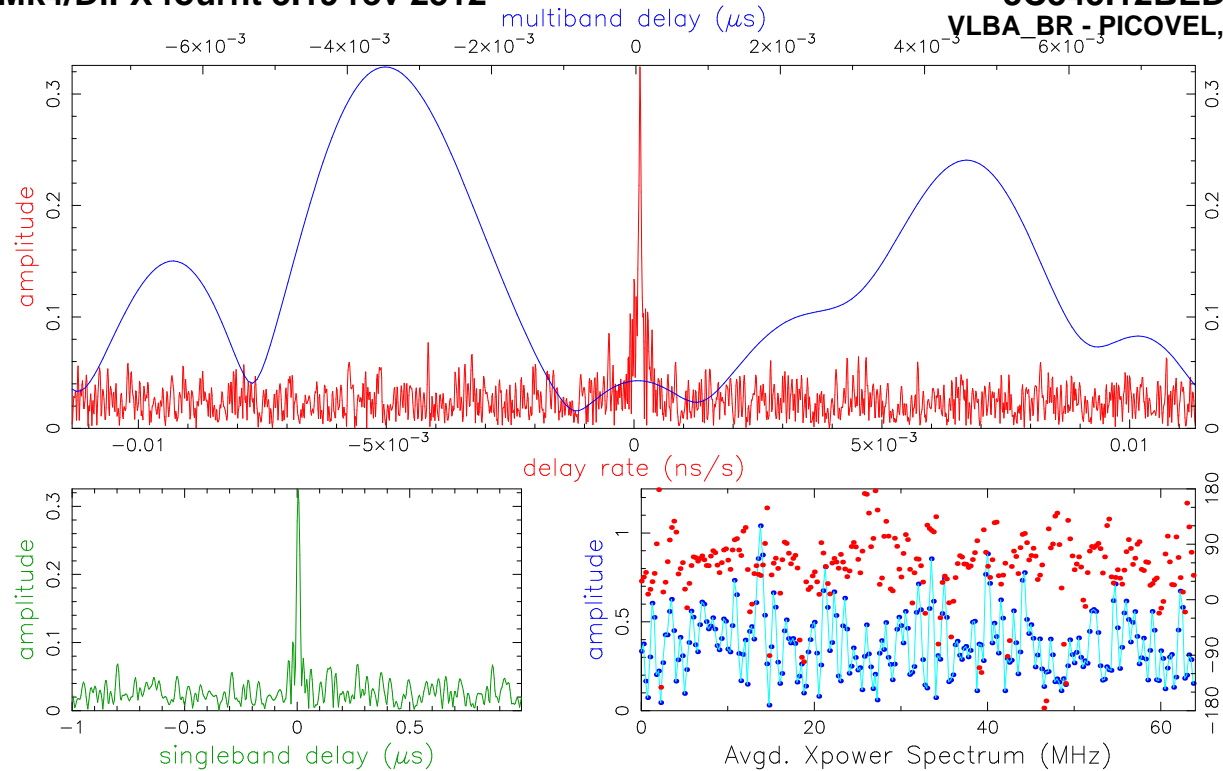
Group delay (usec)(sbd)	-1.06030337555E+03	Apriori delay (usec)	-1.06029990636E+03	Resid mbdelay (usec)	-3.46919E-03	+/-	1.5E-05
Sband delay (usec)	-1.06030318836E+03	Apriori clock (usec)	1.6929031E+01	Resid sbdelay (usec)	-3.28200E-03	+/-	1.2E-04
Phase delay (usec)	-1.06029990559E+03	Apriori clockrate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

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

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

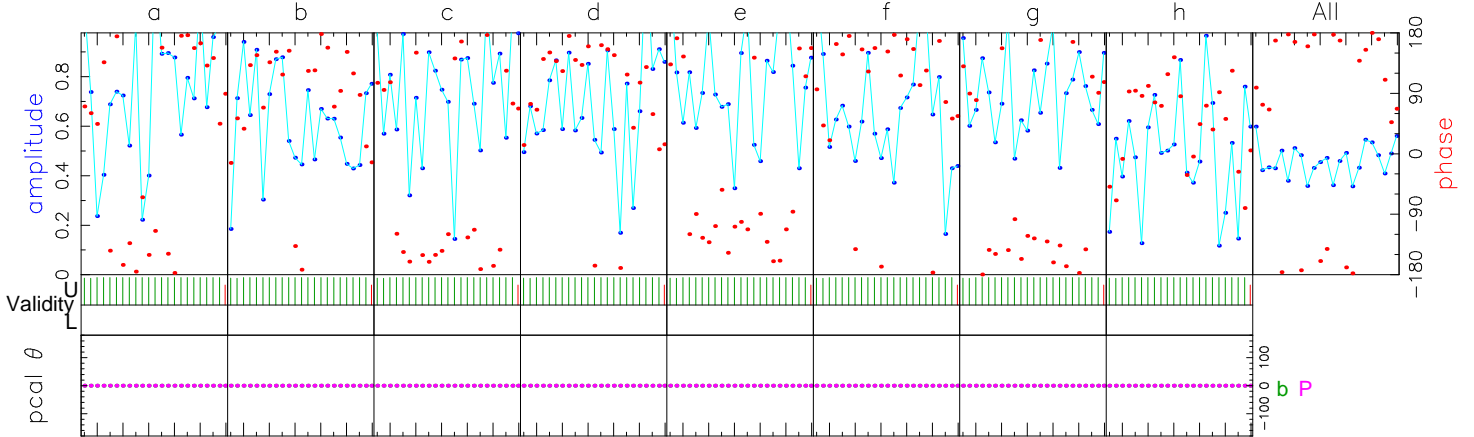
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, bP
VLBA_BR - PICOVEL, fgroup W, pol RR



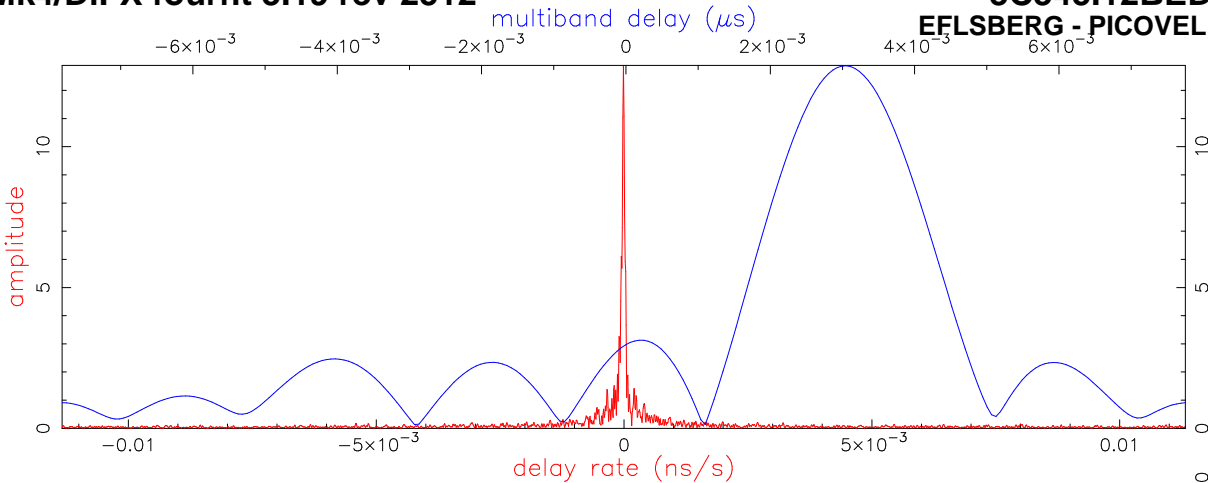
Fringe quality 8
SNR 16.3
Int time 336.362
Amp 0.326
Phase 156.7
PFD 0.0e+00
Delays (us)
SBD 0.004708
MBD -0.003450
Fringe rate (Hz) 0.010324
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165550
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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

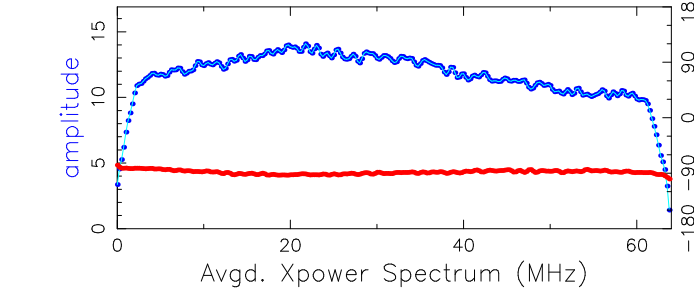
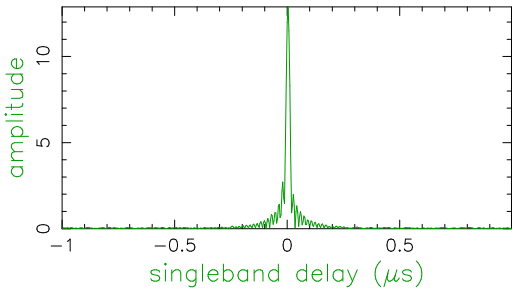


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.72448747228E+03				-6.72449964713E+03					
Sband delay (usec)	-6.72449493888E+03				-5.2272862E-01					
Phase delay (usec)	-6.72449964208E+03				1.1060491E-07					
Delay rate (us/s)	1.34872449070E+00				1.34872437085E+00					
Total phase (deg)			-60.7		4.59892593383E-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)										
Pcal mode:	MANUAL	MANUAL			MANUAL					
Pcal rate:	0.000E+00	0.000E+00			0.000E+00					
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

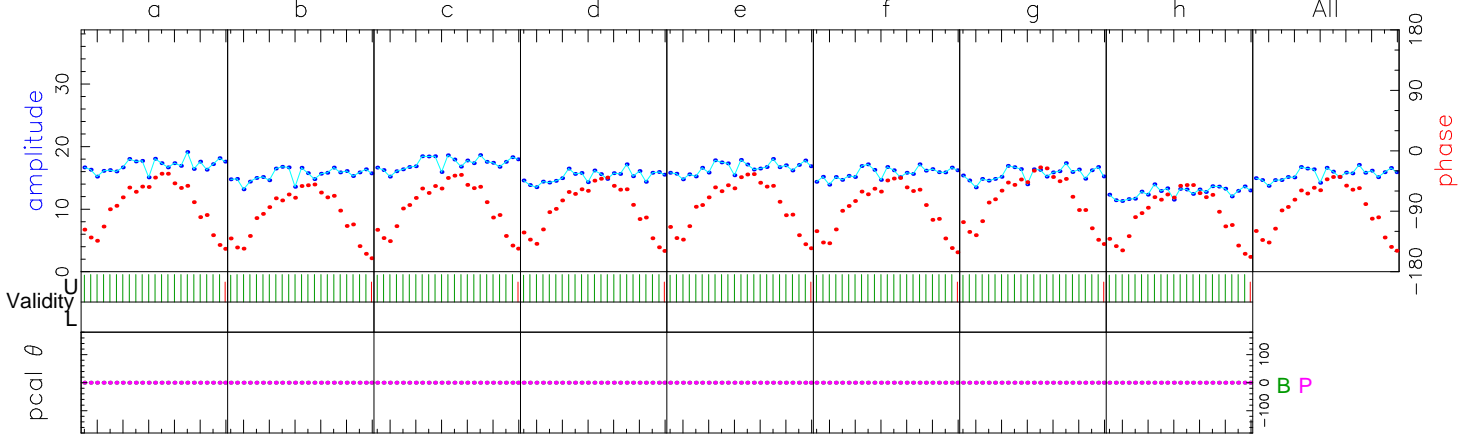
b: az 66.1 el 33.9 pa -52.6 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bP.W.27.12BED8



Fringe quality 6
SNR 646.7
Int time 336.738
Amp 12.887
Phase -83.2
PFD 0.0e+00
Delays (us)
SBD 0.003458
MBD 0.003025
Fringe rate (Hz)
-0.000594
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Exp# 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165553
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



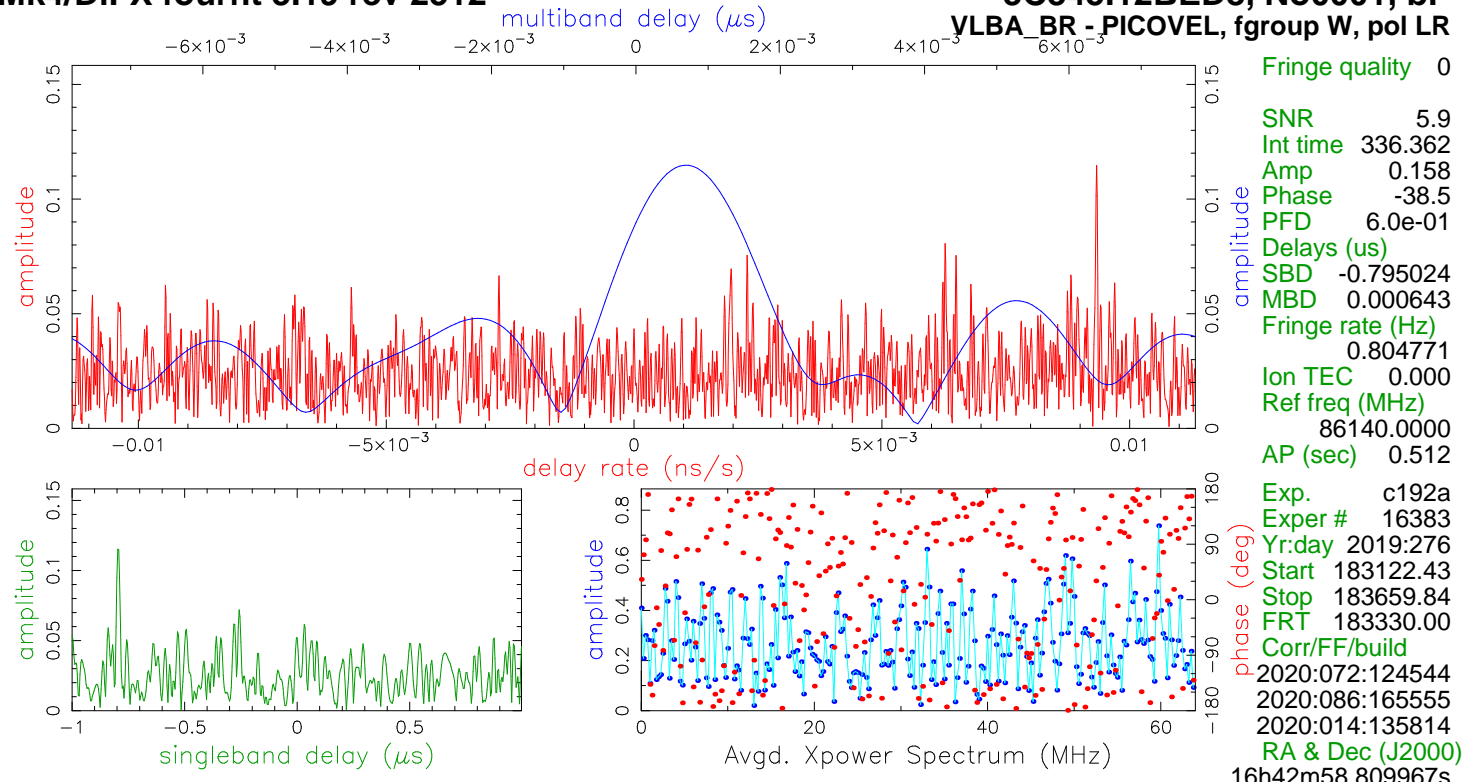
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



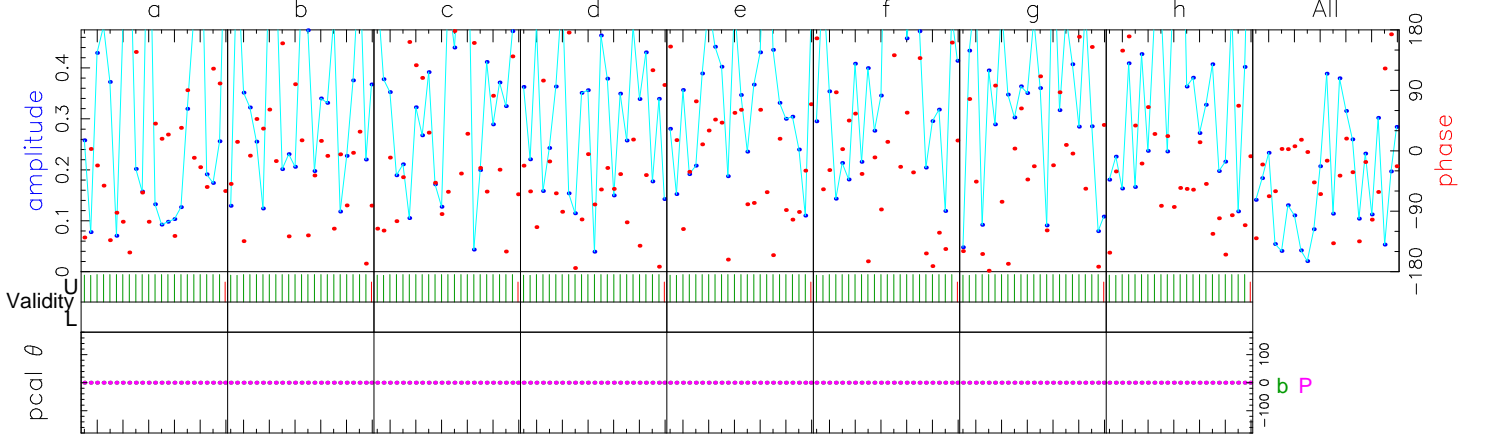
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-80.3	-94.1	-80.8	-84.4	-79.3	-84.8	-70.8	-93.9	Phase	-83.2
	13.9	12.8	14.3	12.6	13.7	13.0	12.8	10.5	Ampl.	13.0
	257.6	257.5	258.0	257.4	258.0	257.9	257.9	256.5	Sbd box	257.9
U/L	659/0	659/0	659/0	659/0	659/0	659/0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

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

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



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

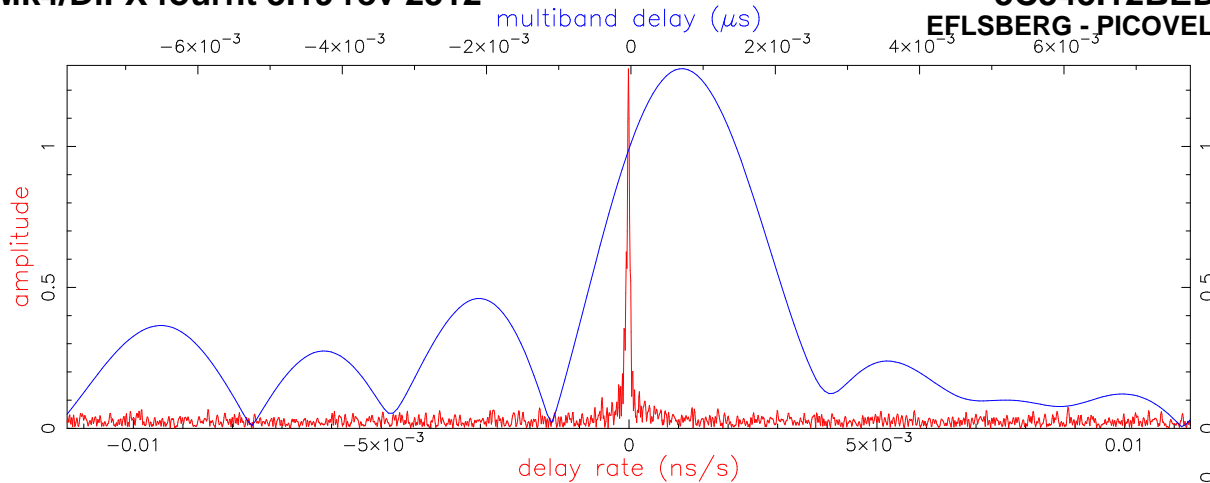


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.8	-9.4	-51.8	-63.4	-0.6	-10.3	-8.4	-58.2	Phase	-38.5
	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.3	Ampl.	0.2
	42.9	410.0	502.6	279.4	306.4	189.6	384.5	185.3	Sbd box	53.5
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.72529587939E+03	Apriori delay (usec)	-6.72449964713E+03	Resid mbdelay (usec)	6.42742E-04	+/-	1.8E-04
Sband delay (usec)	-6.72529467138E+03	Apriori clock (usec)	-5.2272862E-01	Resid sbdelay (usec)	-7.95024E-01	+/-	1.5E-03
Phase delay (usec)	-6.72449964837E+03	Apriori clockrate (us/s)	1.1060491E-07	Resid phdelay (usec)	-1.24141E-06	+/-	6.3E-07
Delay rate (us/s)	1.34873371343E+00	Apriori rate (us/s)	1.34872437085E+00	Resid rate (us/s)	9.34259E-06	+/-	3.2E-09
Total phase (deg)	-255.9	Apriori accel (us/s/s)	4.59892593383E-05	Resid phase (deg)	-38.5	+/-	19.4

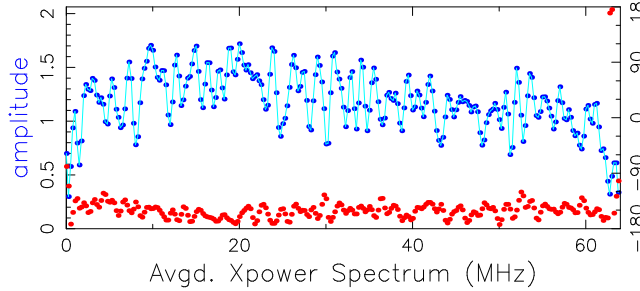
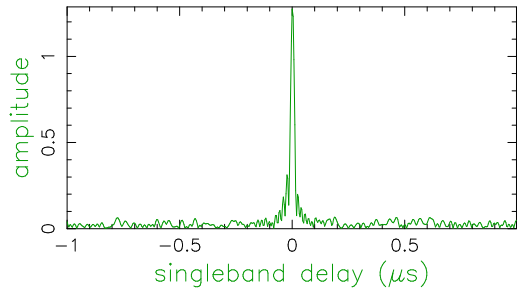
ph/seg (deg)	RMS 65.2	Theor. 46.6	Amplitude Search (2048X32)	0.114	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	102.9	81.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	32.0	27.5	Inc. seg. avg.	0.174	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.9	47.9	Inc. frq. avg.	0.155	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 66.1 el 33.9 pa -52.6 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bP.W.46.12BED8



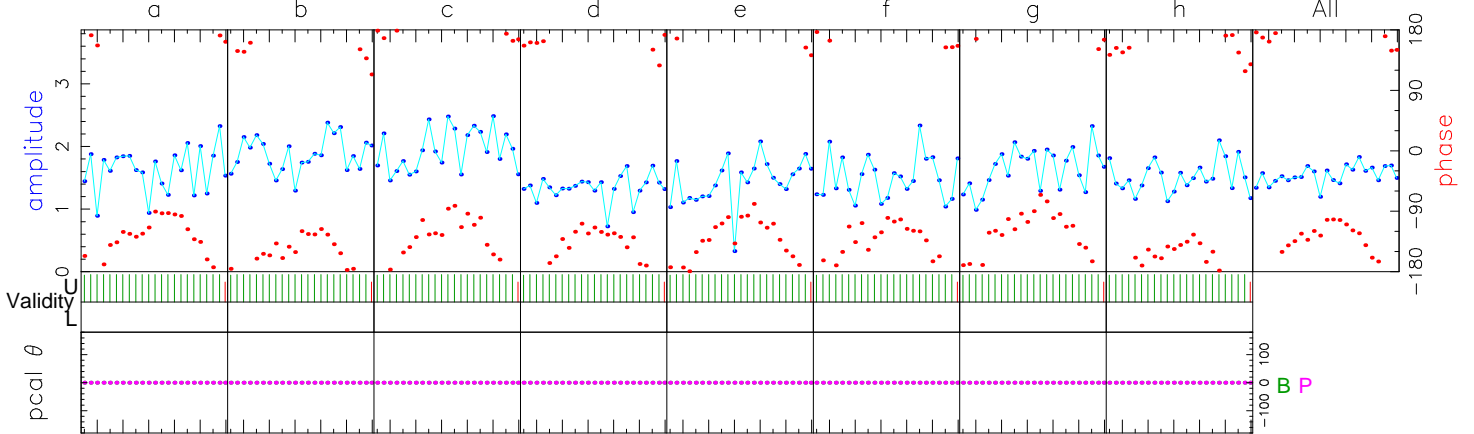
Fringe quality 5

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



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

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

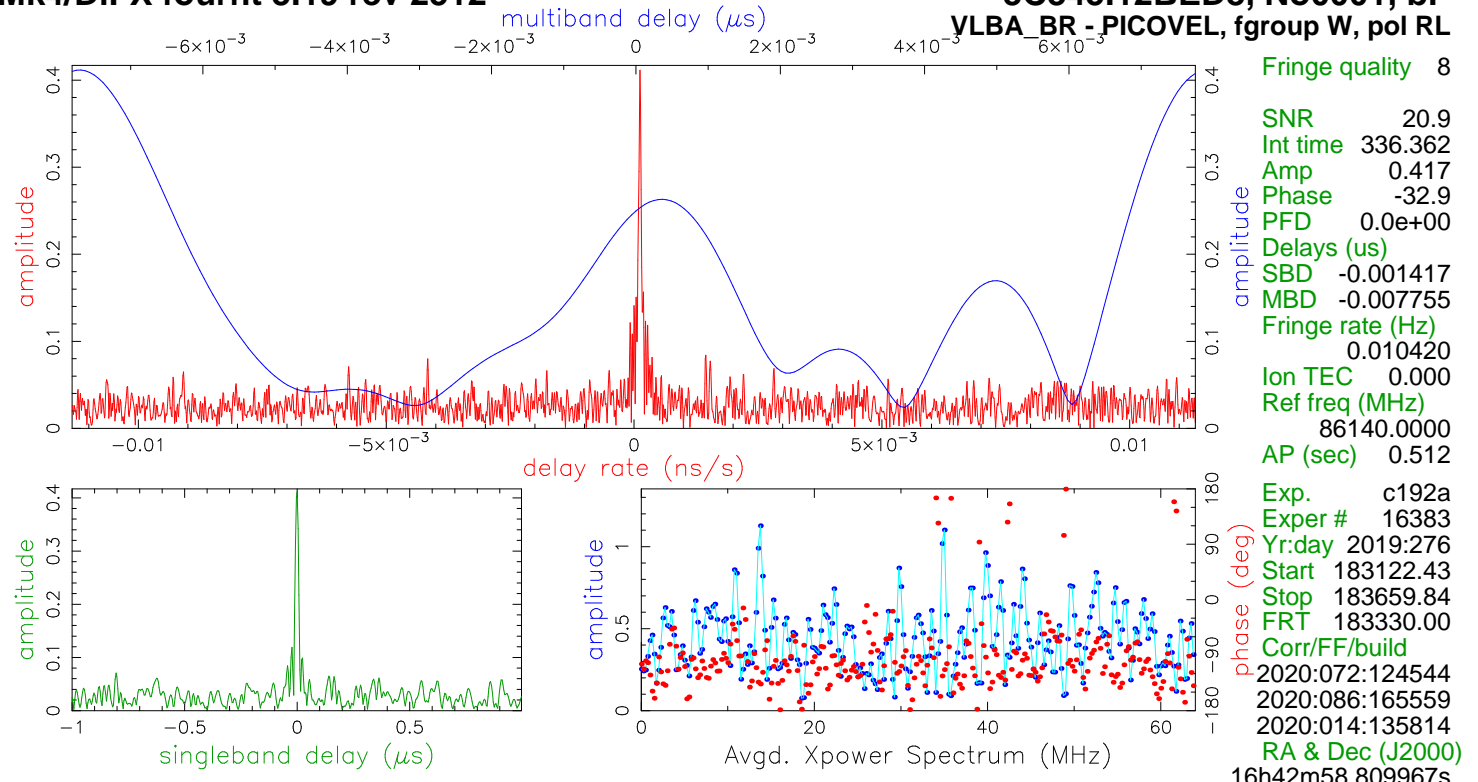


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

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

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

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



Fringe quality 8

SNR 20.9

Int time 336.362

Amp 0.417

Phase -32.9

PFD 0.0e+00

Delays (us)

SBD -0.001417

MBD -0.007755

Fringe rate (Hz) 0.010420

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

2020:086:165559

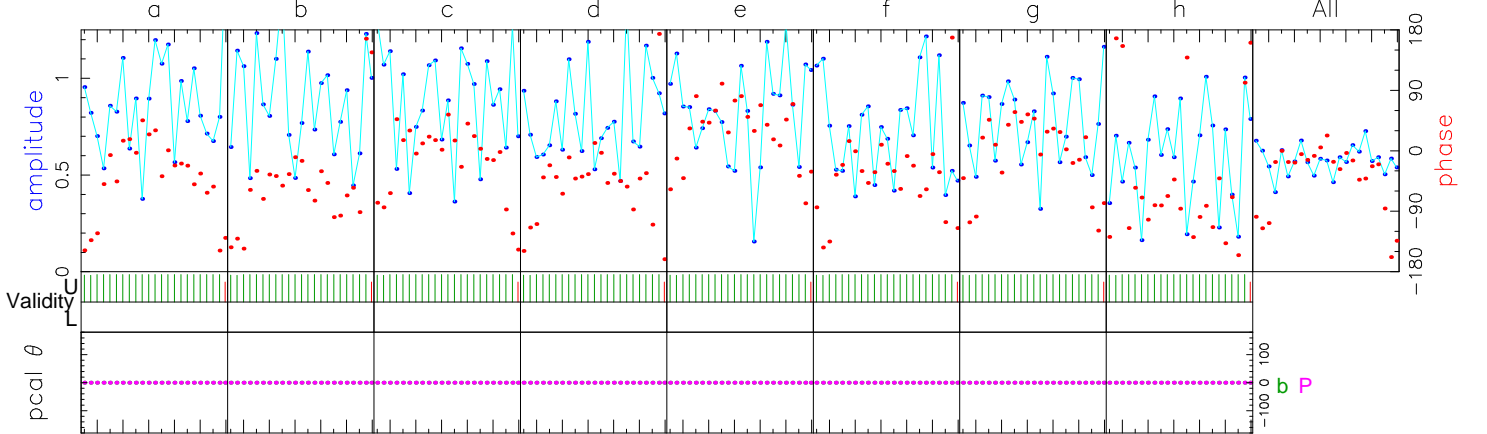
2020:014:135814

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
	-33.0	-68.9	-11.7	-55.4	28.7	-47.0	4.0	-105.6	Phase	-32.9
	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.4	Ampl.	0.5
	256.0	256.4	256.5	256.0	256.3	256.3	255.9	254.6	Sbd box	256.6
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.72450740263E+03		Apriori delay (usec)		-6.72449964713E+03		Resid mbdelay (usec)		-7.75550E-03	+/- 5.2E-05
Sband delay (usec)	-6.72450106438E+03		Apriori clock (usec)		-5.2272862E-01		Resid sbdelay (usec)		-1.41725E-03	+/- 4.1E-04
Phase delay (usec)	-6.72449964819E+03		Apriori clockrate (us/s)		1.1060491E-07		Resid phdelay (usec)		-1.06227E-06	+/- 1.8E-07
Delay rate (us/s)	1.34872449181E+00		Apriori rate (us/s)		1.34872437085E+00		Resid rate (us/s)		1.20968E-07	+/- 9.1E-10
Total phase (deg)			Apriori accel (us/s/s)		4.59892593383E-05		Resid phase (deg)		-32.9	+/- 5.5

ph/seg (deg) 48.0 13.1 Search (2048X32) 0.417 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

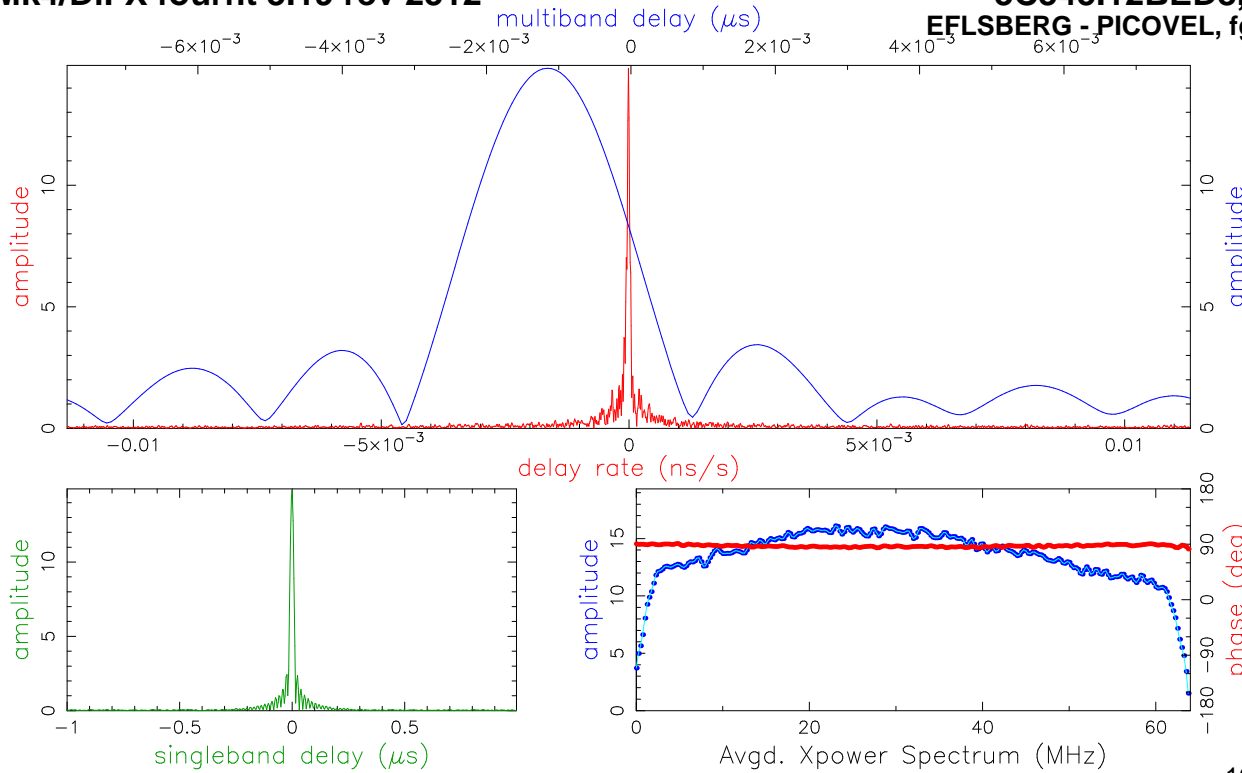
amp/seg (%) 42.2 22.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 46.3 7.8 Inc. seg. avg. 0.563 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 29.2 13.5 Inc. frq. avg. 0.514 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bP.W.66.12BED8

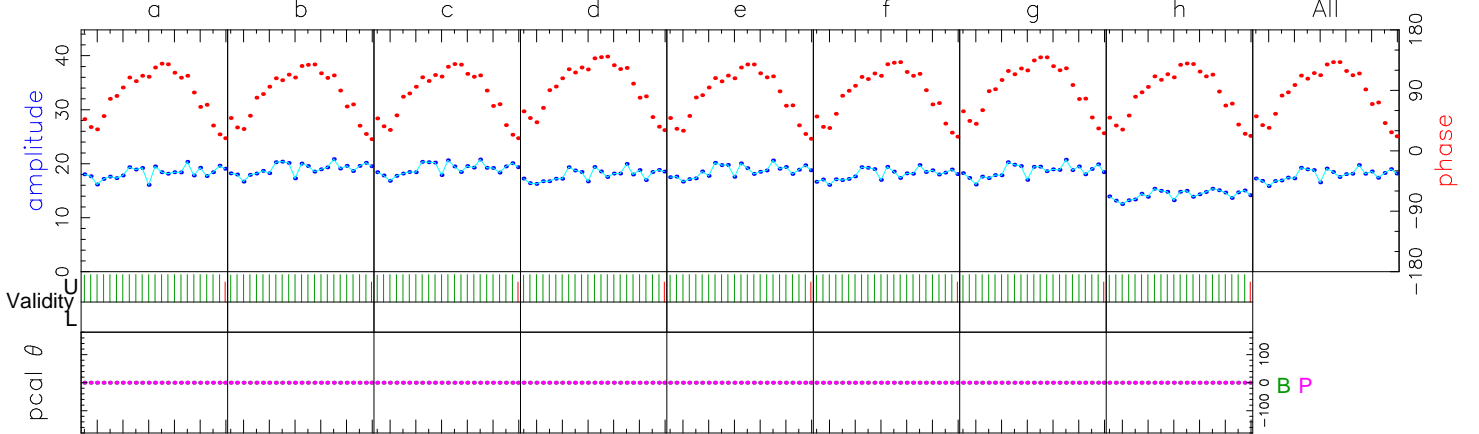


Fringe quality 6

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

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

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

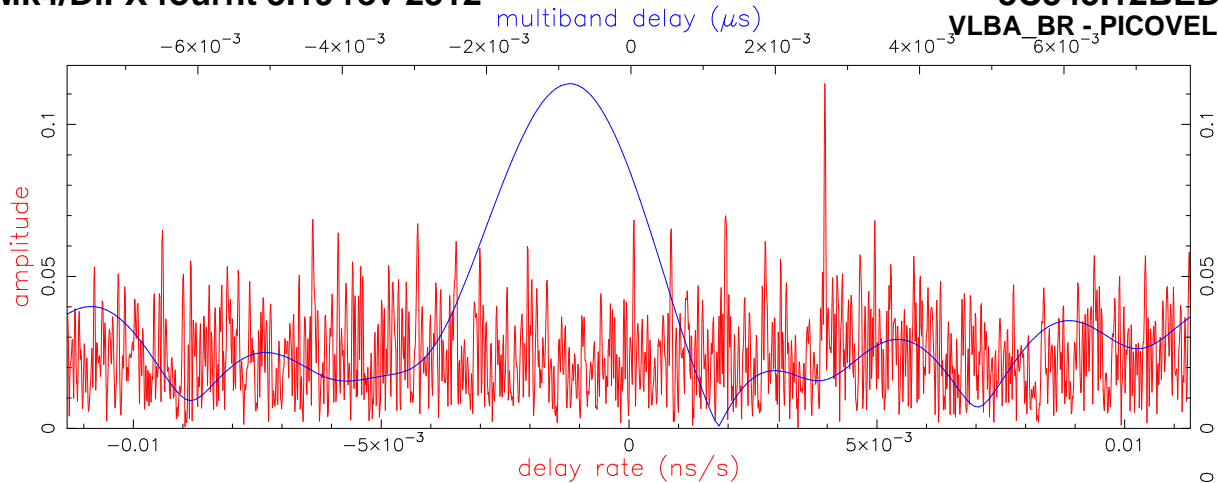


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	83.6	84.4	84.9	96.3	84.0	87.0	94.3	85.7	Phase	87.5
	15.1	15.7	15.8	14.8	15.4	14.9	15.3	11.8	Ampl.	14.9
	256.3	256.6	256.9	256.4	256.8	256.8	257.0	255.6	Sbd box	256.7
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.06030109321E+03		Apriori delay (usec)		-1.06029990636E+03		Resid mbdelay (usec)		-1.18685E-03	+/- 1.4E-06
Sband delay (usec)	-1.06030110036E+03		Apriori clock (usec)		1.6929031E+01		Resid sbdelay (usec)		-1.19400E-03	+/- 1.1E-05
Phase delay (usec)	-1.06029990354E+03		Apriori clockrate (us/s)		1.5299999E-07		Resid phdelay (usec)		2.82178E-06	+/- 4.9E-09
Delay rate (us/s)	1.22893323077E-02		Apriori rate (us/s)		1.22893391516E-02		Resid rate (us/s)		-6.84396E-09	+/- 2.5E-11
Total phase (deg)			Apriori accel (us/s/s)		1.79330549472E-05		Resid phase (deg)		87.5	+/- 0.2

	RMS	Theor.	Amplitude	14.929 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	34.8	0.4	Search (2048X32)	14.304	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	21.2	0.6	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	5.3	0.2	Inc. seg. avg.	17.937	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	8.0	0.4	Inc. frq. avg.	14.856	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

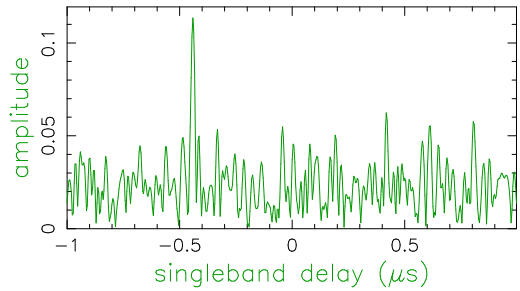
B: az 269.2 el 56.7 pa 55.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator

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

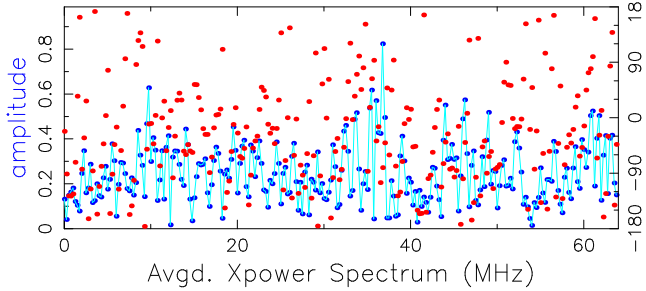


Fringe quality 0

SNR 5.7
Int time 336.362
Amp 0.119
Phase -67.9
PFD 9.5e-01
Delays (us)
SBD -0.440870
MBD -0.000826
Fringe rate (Hz)
0.340681
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

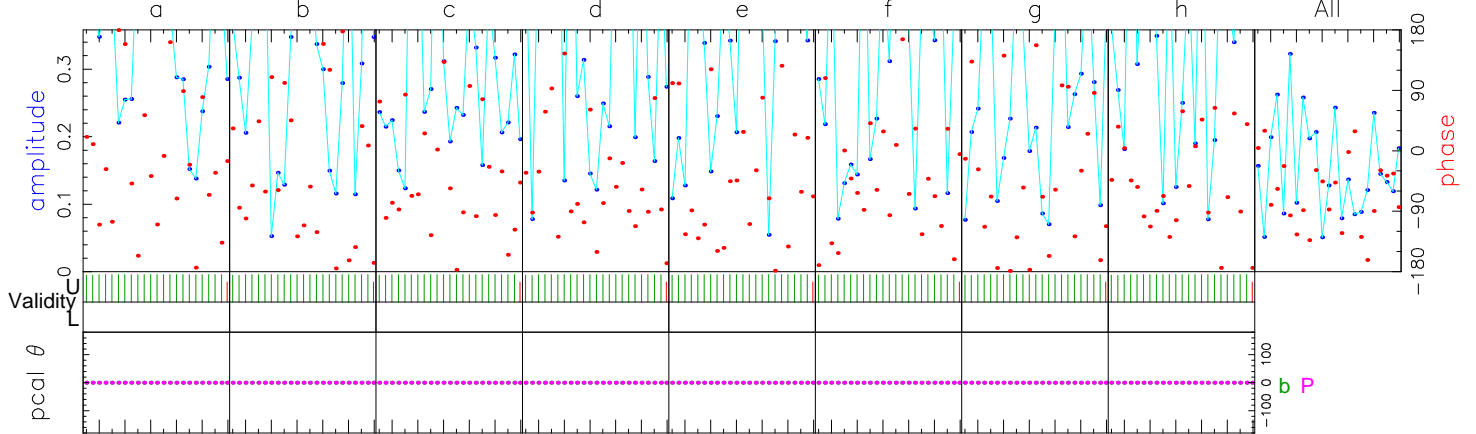


delay rate (ns/s)



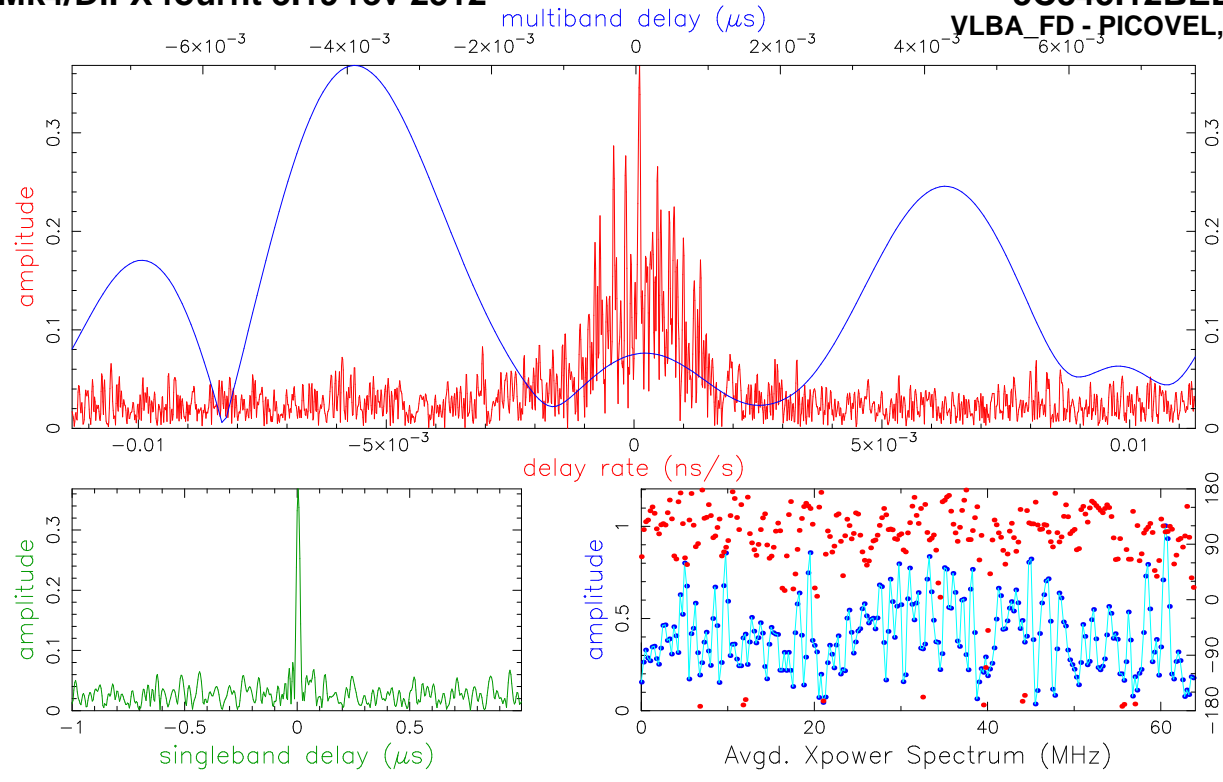
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165547
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 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
	-62.7	-62.6	-62.2	-66.9	-85.3	-76.2	-106.8	-50.5	Phase	-67.9
	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	Ampl.	0.1
	441.1	402.7	221.7	144.6	276.8	141.9	462.3	360.5	Sbd box	144.1
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.72493797354E+03		Apriori delay (usec)		-6.724499647135E+03		Resid mbdelay (usec)		-8.26403E-04	+/- 1.9E-04
Sband delay (usec)	-6.72494051738E+03		Apriori clock (usec)		-5.2272862E-01		Resid sbdelay (usec)		-4.40870E-01	+/- 1.5E-03
Phase delay (usec)	-6.72449964932E+03		Apriori clockrate (us/s)		1.1060491E-07		Resid phdelay (usec)		-2.18862E-06	+/- 6.5E-07
Delay rate (us/s)	1.34872832582E+00		Apriori rate (us/s)		1.34872437085E+00		Resid rate (us/s)		3.95497E-06	+/- 3.3E-09
Total phase (deg)			Apriori accel (us/s/s)		4.59892593383E-05		Resid phase (deg)		-67.9	+/- 20.1

ph/seg (deg) 52.2 48.3 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.0 84.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.5 28.5 Inc. seg. avg. 0.121 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.4 49.7 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bP.W.7.12BED8

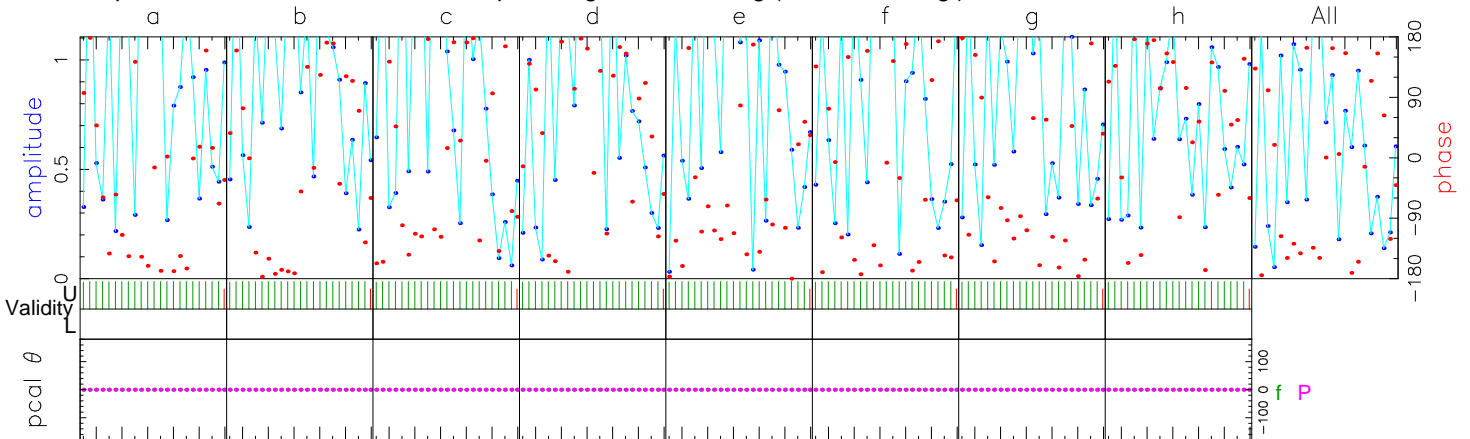


Fringe quality 8

SNR 18.5
Int time 336.640
Amp 0.368
Phase -153.2
PFD 0.0e+00
Delays (us)
SBD 0.004051
MBD -0.003895
Fringe rate (Hz) 0.009506
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
2020:086:165612
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

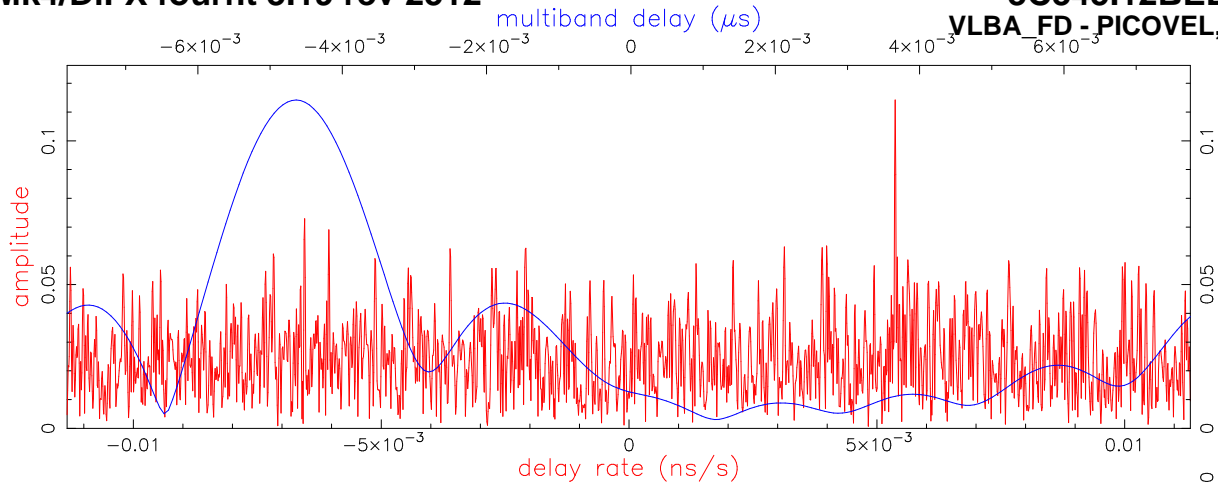
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.69764062591E+03									
Sband delay (usec)	-5.69764830466E+03									
Phase delay (usec)	-5.69765236085E+03									
Delay rate (us/s)	1.48892330417E+00									
Total phase (deg)			-130.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

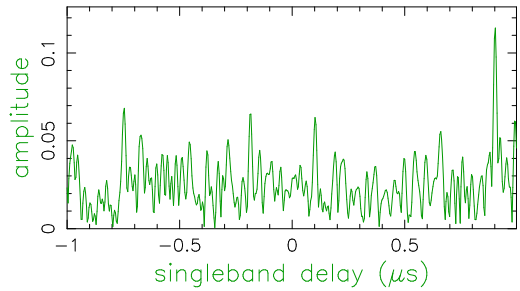
f: az 61.0 el 37.1 pa -78.2 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fP.W.117.12BED8

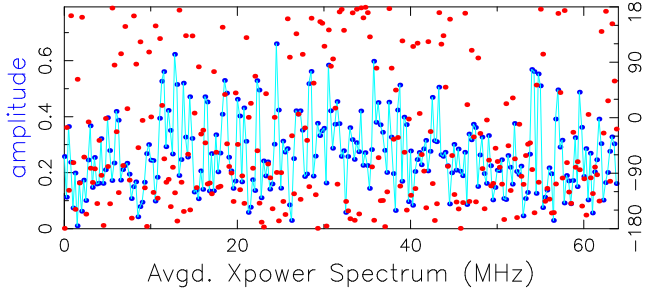


Fringe quality 0

SNR 5.8
Int time 336.640
Amp 0.126
Phase -130.0
PFD 8.7e-01
Delays (us)
SBD 0.901400
MBD -0.004626
Fringe rate (Hz)
0.463304
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

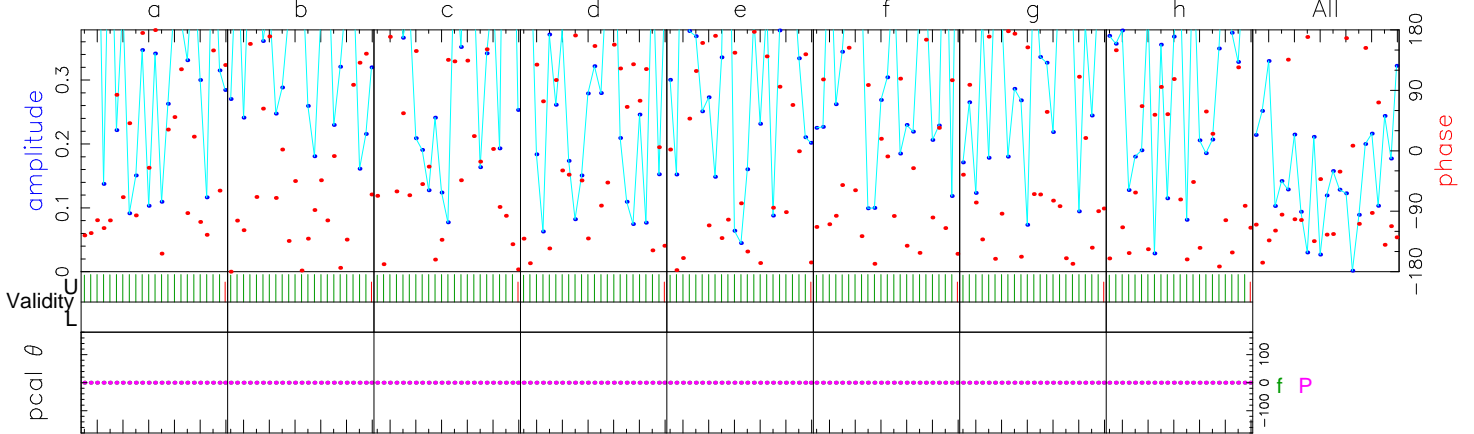


delay rate (ns/s)



Exp. c192a
Yr:day 16383
Start 2020:072:124544
Stop 2020:086:165616
FRT 183330.00
RA & Dec (J2000)
2020:014:135814
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



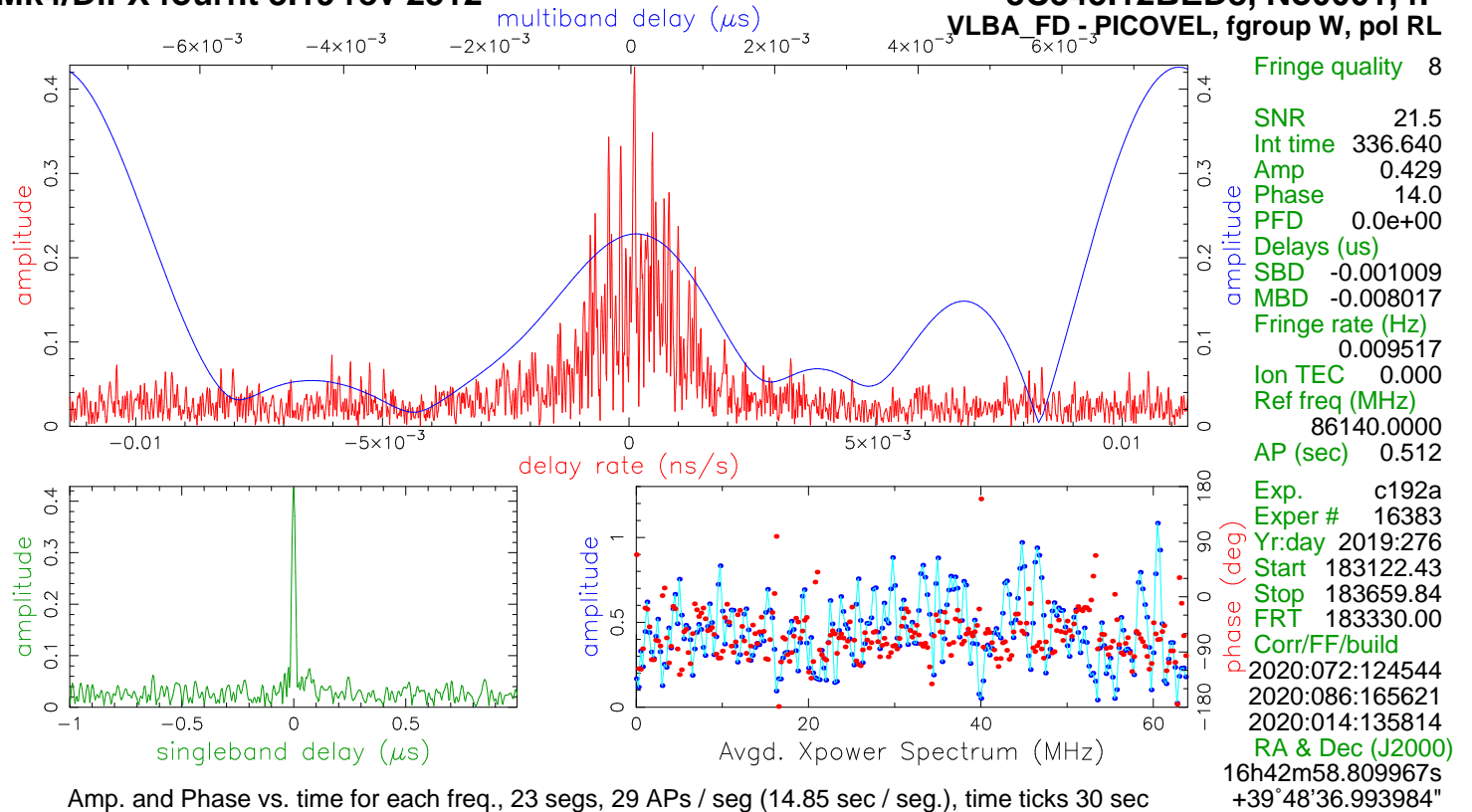
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.7	-125.0	-116.3	-156.7	-167.0	-120.3	-116.9	-133.8	Phase	-130.0
	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	502.0	312.6	155.1	303.8	471.4	401.2	390.5	510.0	Sbd box	487.8
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.69675073183E+03		Apriori delay (usec)		-5.69765235591E+03		Resid mbdelay (usec)		-4.62592E-03	+/- 1.9E-04
Sband delay (usec)	-5.69675095591E+03		Apriori clock (usec)		5.4474944E-01		Resid sbdelay (usec)		9.01400E-01	+/- 1.5E-03
Phase delay (usec)	-5.69765236010E+03		Apriori clockrate (us/s)		2.6205050E-07		Resid phdelay (usec)		-4.19217E-06	+/- 6.4E-07
Delay rate (us/s)	1.48892857232E+00		Apriori rate (us/s)		1.48892319381E+00		Resid rate (us/s)		5.37850E-06	+/- 3.3E-09
Total phase (deg)			Apriori accel (us/s/s)		2.35697441985E-05		Resid phase (deg)		-130.0	+/- 19.9

	RMS	Theor.	Amplitude	0.126 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	63.3	47.7	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	80.7	83.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	21.1	28.1	Inc. seg. avg.	0.127	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	19.9	49.1	Inc. frq. avg.	0.117	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

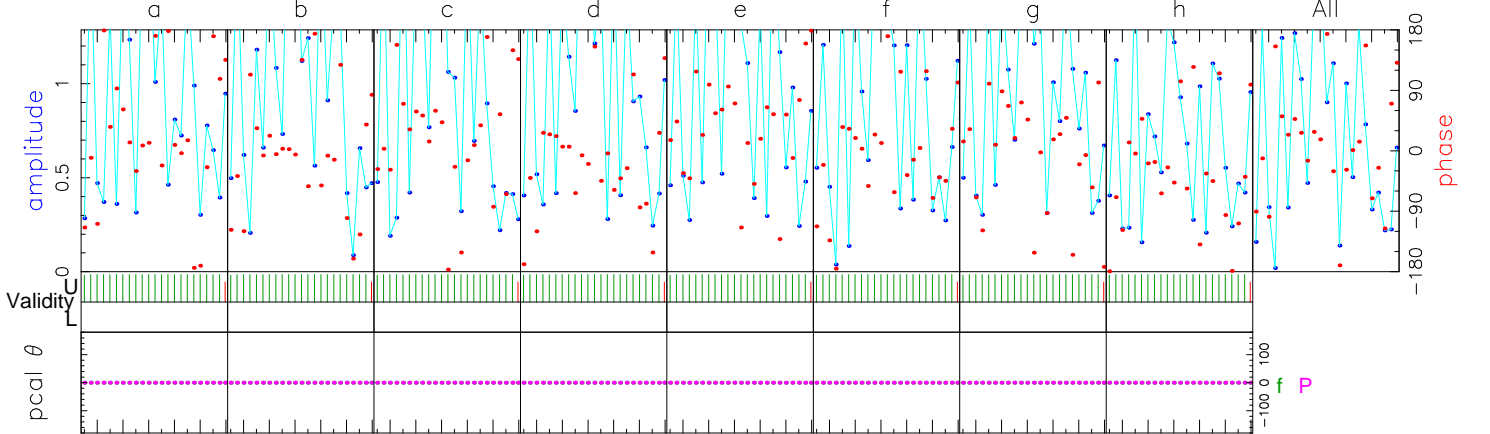
f: az 61.0 el 37.1 pa -78.2 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fP.W.135.12BED8

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, fP
VLBA_FD - PICOVEL, fgroup W, pol RL



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
	17.9	-9.7	37.0	-23.1	59.7	5.2	42.5	-39.6	Phase	14.0
	0.4	0.5	0.6	0.6	0.5	0.5	0.5	0.3	Ampl.	0.5
	256.5	256.1	256.0	256.4	256.2	256.7	256.0	253.6	Sbd box	256.7
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.69766037306E+03		Apriori delay (usec)		-5.69765235591E+03		Resid mbdelay (usec)		-8.01716E-03	+/- 5.0E-05
Sband delay (usec)	-5.69765336491E+03		Apriori clock (usec)		5.4474944E-01		Resid sbdelay (usec)		-1.00900E-03	+/- 4.0E-04
Phase delay (usec)	-5.69765235546E+03		Apriori clockrate (us/s)		2.6205050E-07		Resid phdelay (usec)		4.51230E-07	+/- 1.7E-07
Delay rate (us/s)	1.48892330429E+00		Apriori rate (us/s)		1.48892319381E+00		Resid rate (us/s)		1.10482E-07	+/- 8.8E-10
Total phase (deg)	-323.6		Apriori accel (us/s/s)		2.35697441985E-05		Resid phase (deg)		14.0	+/- 5.3

ph/seg (deg) 85.7 12.8 Theor. Amplitude 0.429 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

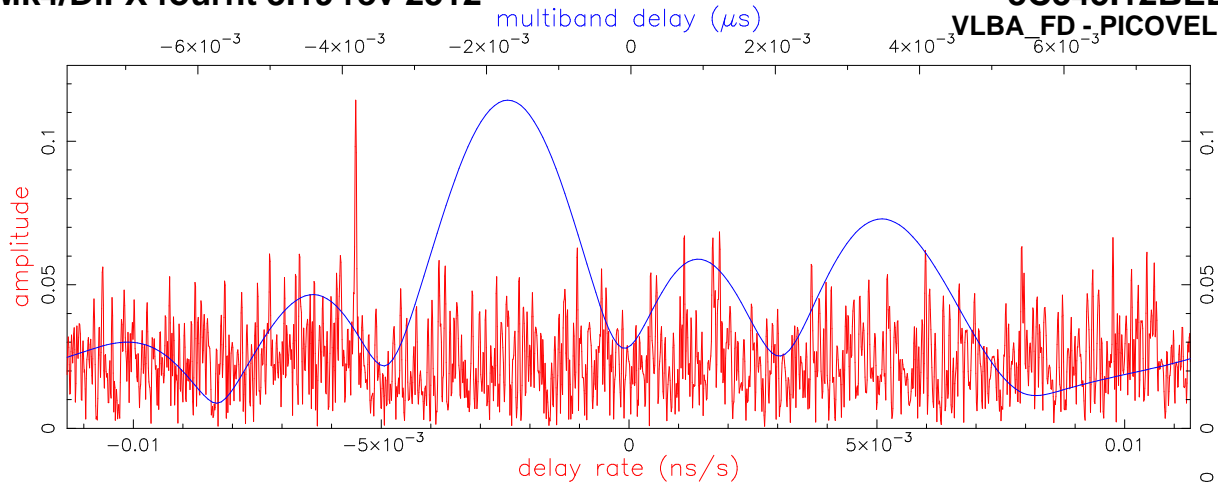
amp/seg (%) 132.9 22.3 Search (2048X32) 0.420 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 37.3 7.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

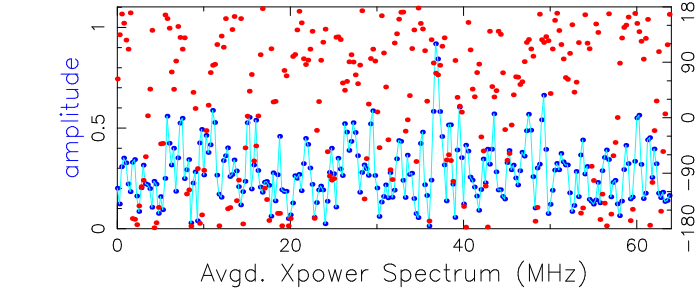
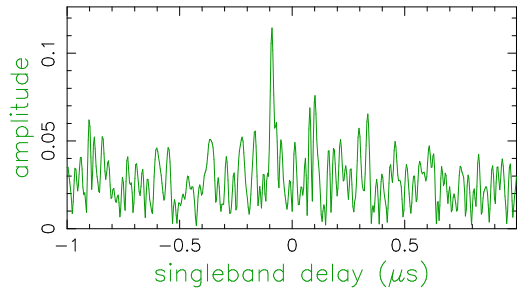
amp/frq (%) 26.6 13.2 Inc. seg. avg. 0.716 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

f: az 61.0 el 37.1 pa -78.2 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

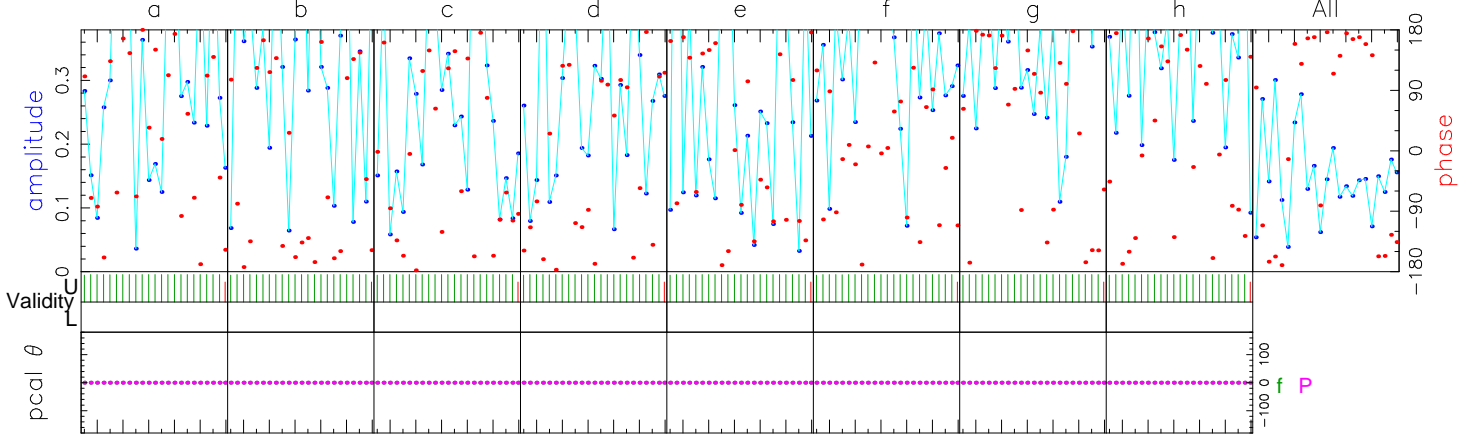
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fP.W.154.12BED8 simultaneous interpolator



Fringe quality 0
SNR 5.7
Int time 336.640
Amp 0.126
Phase 179.7
PFD 9.0e-01
Delays (us)
SBD -0.090240
MBD -0.001701
Fringe rate (Hz)
-0.475895
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
2020:086:165608
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



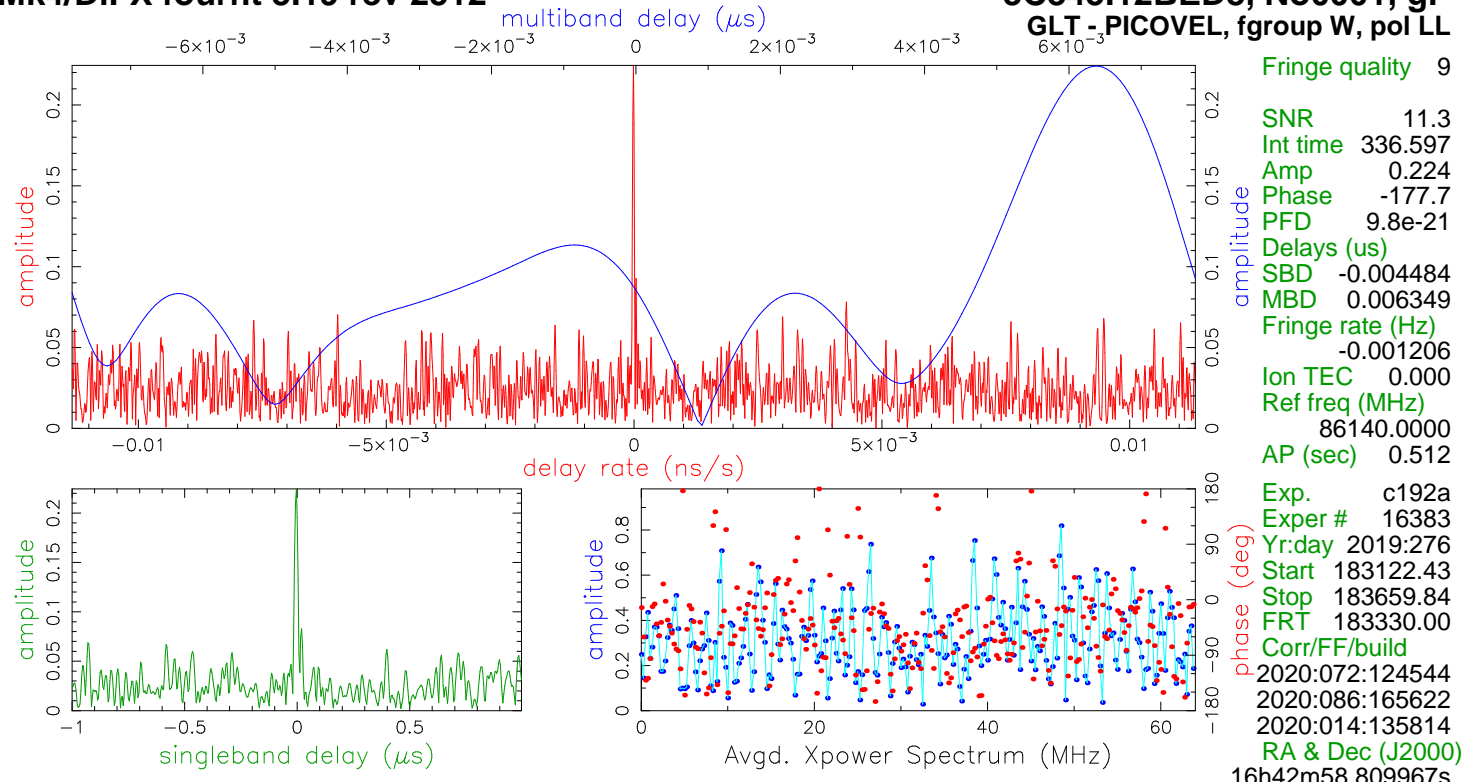
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.69774780684E+03	Apriori delay (usec)	-5.69765235591E+03	Resid mbdelay (usec)	-1.70093E-03	+/-	1.9E-04
Sband delay (usec)	-5.69774259566E+03	Apriori clock (usec)	5.4474944E-01	Resid sbdelay (usec)	-9.02397E-02	+/-	1.5E-03
Phase delay (usec)	-5.69765235011E+03	Apriori clockrate (us/s)	2.6205050E-07	Resid phdelay (usec)	5.79583E-06	+/-	6.4E-07
Delay rate (us/s)	1.48891766915E+00	Apriori rate (us/s)	1.48892319381E+00	Resid rate (us/s)	-5.52466E-06	+/-	3.3E-09
Total phase (deg)	-157.9	Apriori accel (us/s/s)	2.35697441985E-05	Resid phase (deg)	179.7	+/-	20.0

ph/seg (deg)	54.6	RMS	47.9	Theor.	54.6	Amplitude	0.126 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.0		68.6		68.6	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	68.6		28.2		28.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.4		49.3		49.3	Inc. seg. avg.	0.123	Sample rate(MISamp/s): 128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.136	Data rate(Mb/s): 2048					

f: az 61.0 el 37.1 pa -78.2 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fP.W.99.12BED8



Fringe quality 9

SNR 11.3

Int time 336.597

Amp 0.224

Phase -177.7

PFD 9.8e-21

Delays (us)

SBD -0.004484

MBD 0.006349

Fringe rate (Hz)

-0.001206

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

2020:086:165622

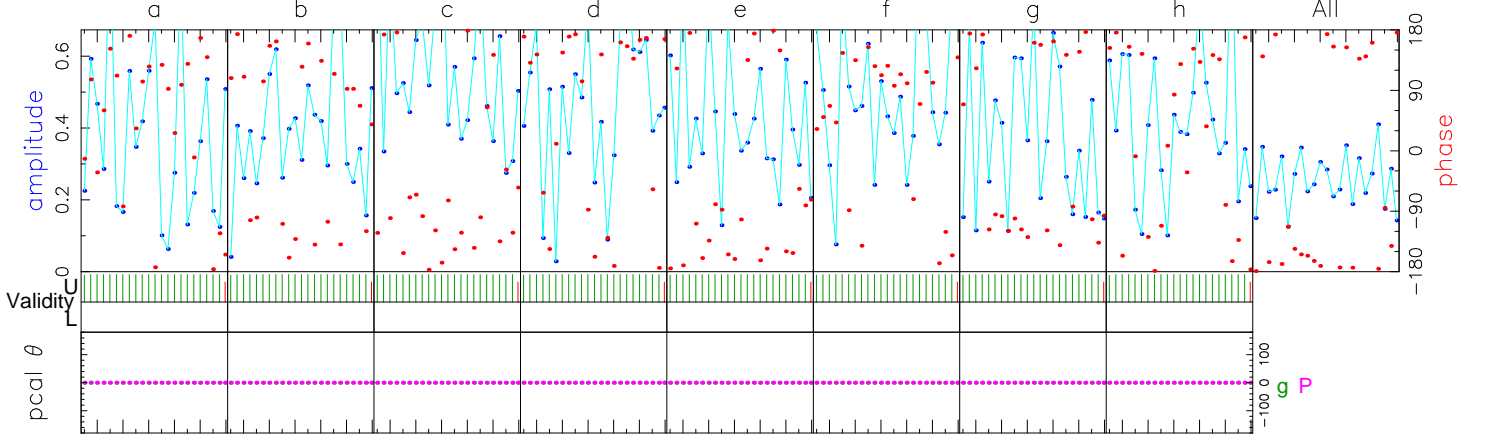
2020:014:135814

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
	130.0	166.6	-127.0	167.4	-149.7	126.0	-150.9	167.1	Phase	-177.7
	0.2	0.2	0.4	0.3	0.3	0.3	0.3	0.2	Ampl.	0.3
	258.9	255.1	255.2	256.2	255.7	255.5	255.8	256.1	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/g	0	0	0	0	0	0	0	0	PC freqs	
g:P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.17057967714E+03		Apriori delay (usec)		-2.17057040120E+03		Resid mbdelay (usec)		6.34906E-03	+/- 9.6E-05
Sband delay (usec)	-2.17057488545E+03		Apriori clock (usec)		1.3860899E+00		Resid sbdelay (usec)		-4.48425E-03	+/- 7.7E-04
Phase delay (usec)	-2.17057040693E+03		Apriori clockrate (us/s)		4.2799997E-07		Resid phdelay (usec)		-5.73165E-06	+/- 3.3E-07
Delay rate (us/s)	6.98680575167E-01		Apriori rate (us/s)		6.98680589162E-01		Resid rate (us/s)		-1.39954E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		3.82873076812E-05		Resid phase (deg)		-177.7	+/- 10.2

ph/seg (deg) 32.8 24.4 Search (2048X32) 0.221 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

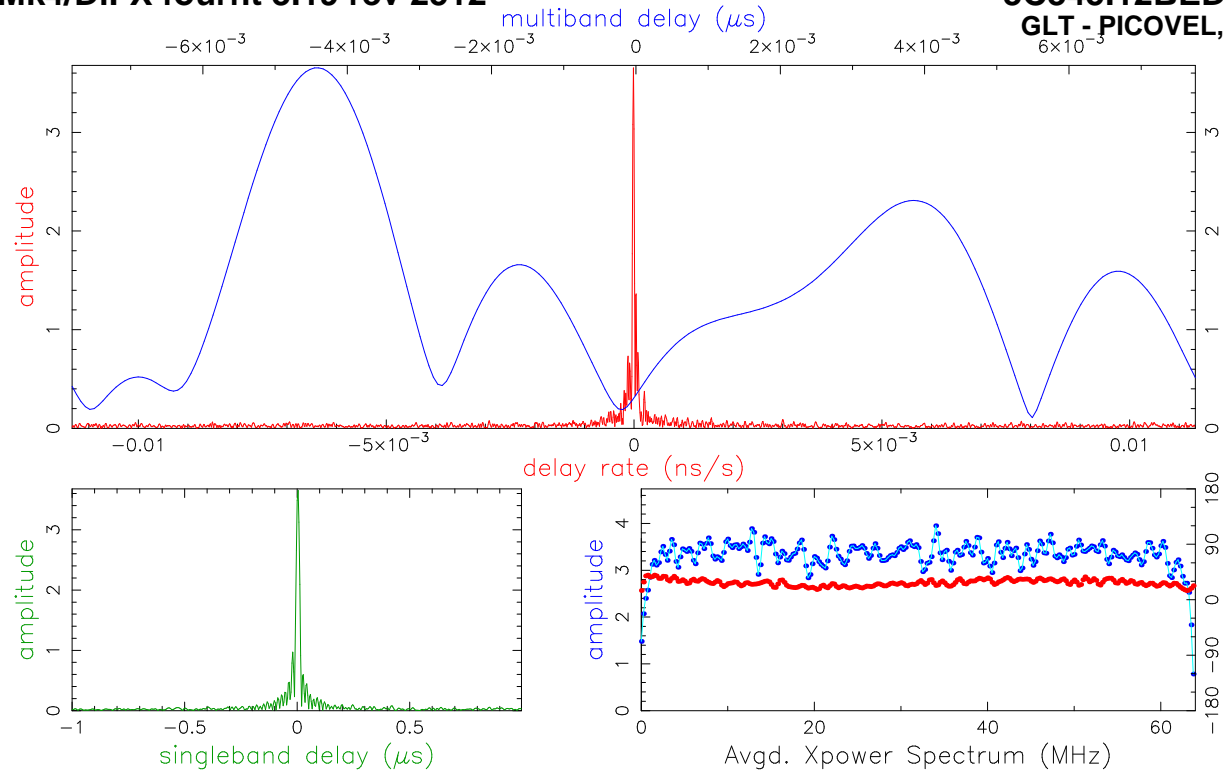
amp/seg (%) 35.2 42.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 42.2 14.4 Inc. seg. avg. 0.235 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 37.7 25.1 Inc. frq. avg. 0.269 Sample rate(MSamp/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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gP.W.158.12BED8

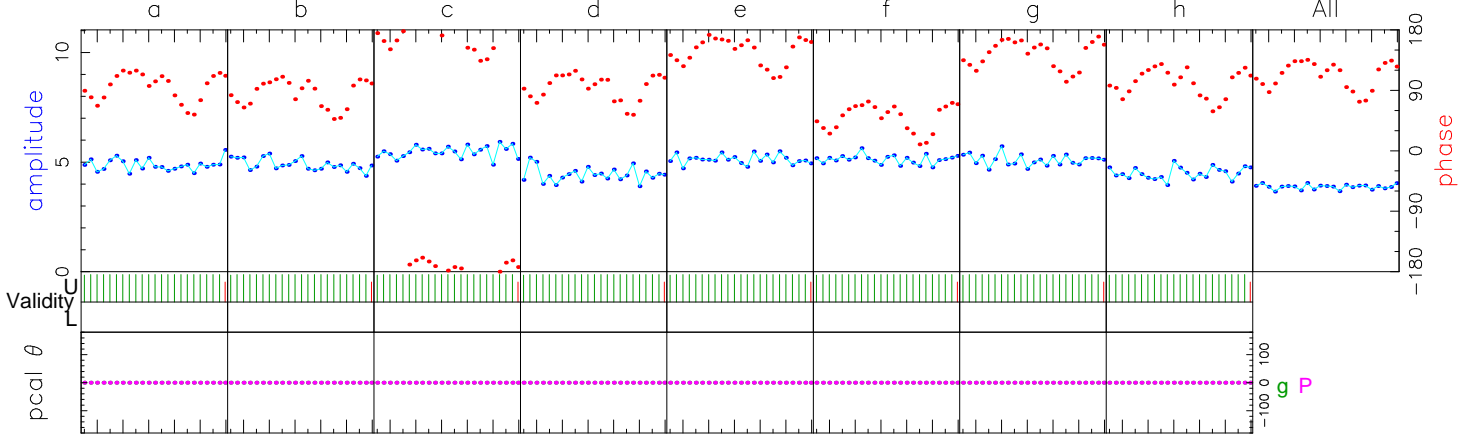


Fringe quality 5

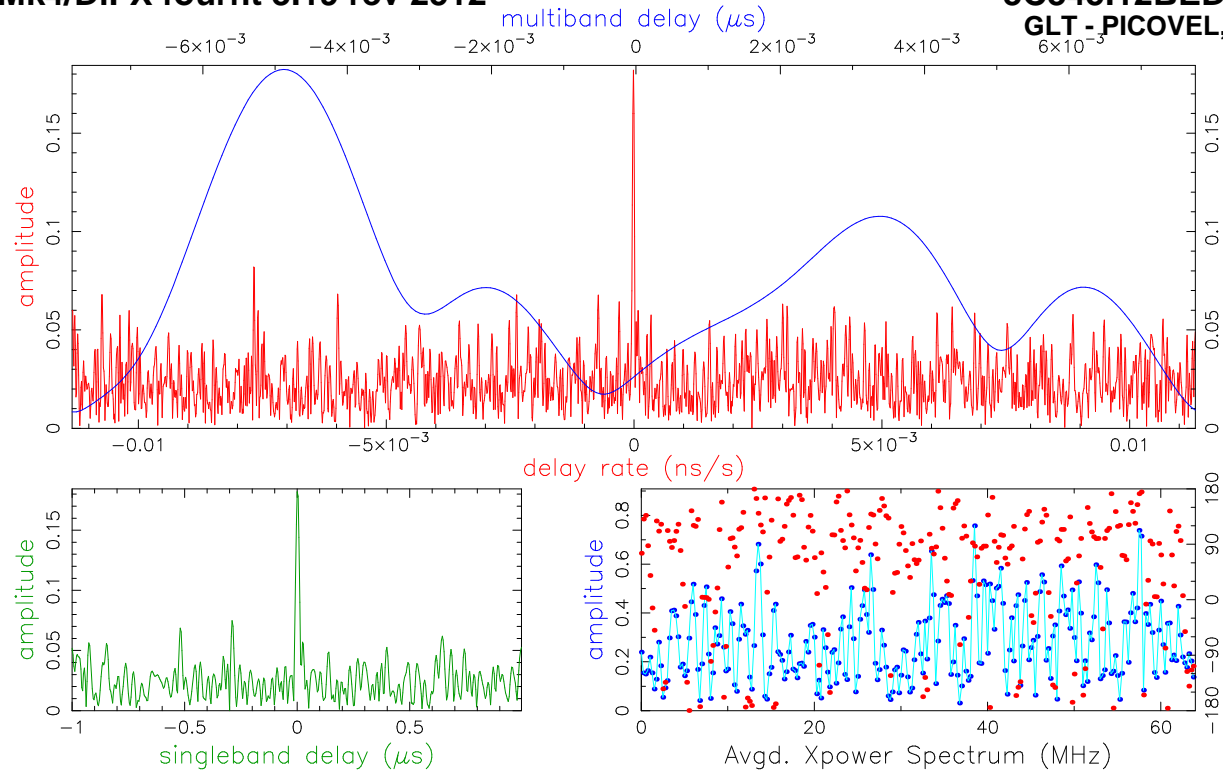
SNR 184.6
Int time 336.640
Amp 3.679
Phase 112.0
PFD 0.0e+00
Delays (us)
SBD 0.002881
MBD -0.004446
Fringe rate (Hz)
-0.000771
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165625
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	0	0	0	0	0	0	0	0		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.17057484758E+03				-2.17057040120E+03				-4.44638E-03	+/- 5.9E-06
Sband delay (usec)	-2.17056752045E+03				1.3860899E+00				2.88075E-03	+/- 4.7E-05
Phase delay (usec)	-2.17057039759E+03				4.2799997E-07				3.61318E-03	+/- 2.0E-08
Delay rate (us/s)	6.98680580206E-01				6.98680589162E-01				-8.95617E-09	+/- 1.0E-10
Total phase (deg)			-17.3		3.82873076812E-05				112.0	+/- 0.6
	RMS	Theor.	Amplitude	3.679 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	19.5	1.5	Search (2048X32)	3.631	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	6.1	2.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	44.0	0.9	Inc. seg. avg.	3.873	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	27.8	1.5	Inc. frq. avg.	4.655	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			P: az 286.6 el 62.3 pa 84.7		u,v (fr/asec) -5134.530 5088.763					simultaneous interpolator

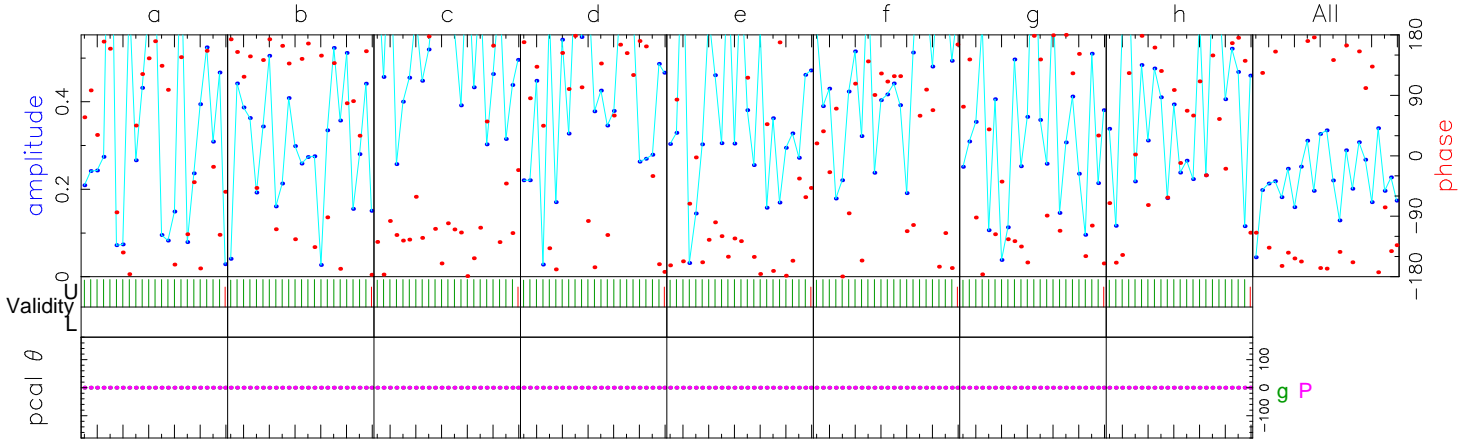


Fringe quality 9

SNR 9.3
Int time 336.597
Amp 0.184
Phase -176.4
PFD 8.7e-12
Delays (us)
SBD 0.001528
MBD -0.004801
Fringe rate (Hz)
-0.001391
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
2020:086:165629
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

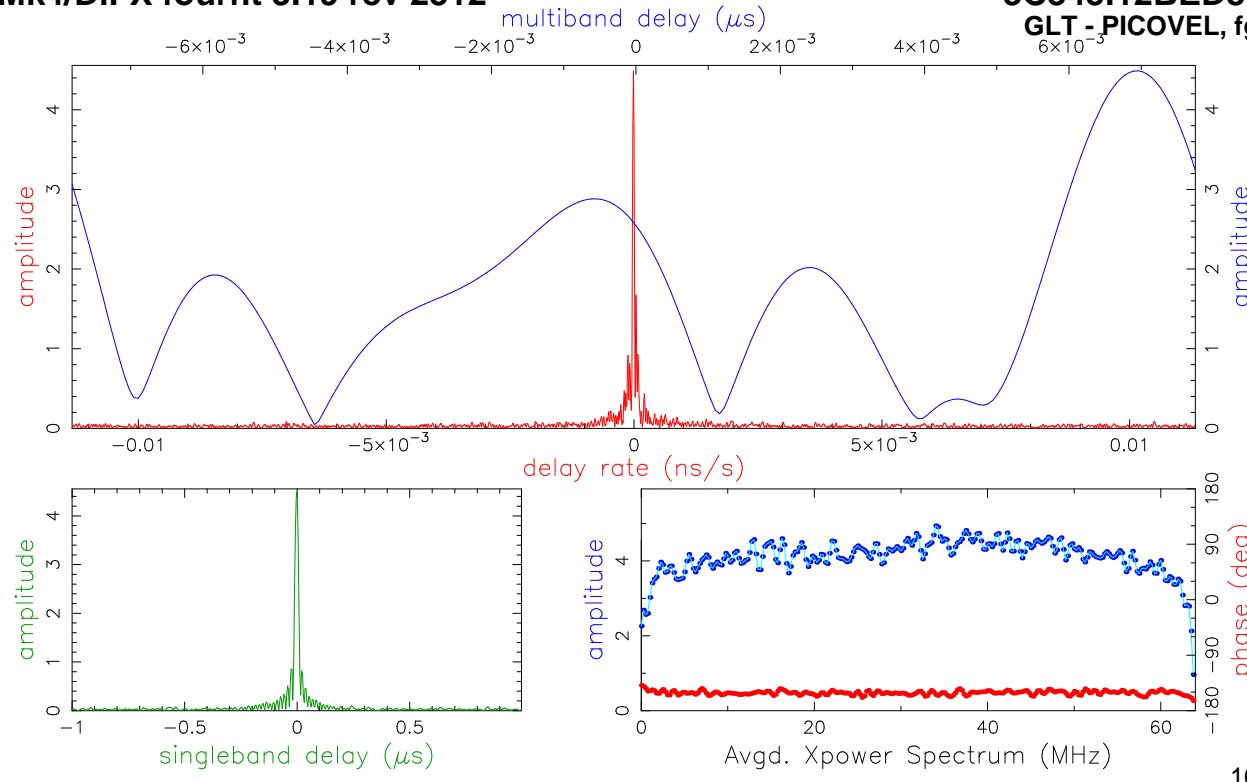
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	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		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.17057520223E+03				-2.17057040120E+03					
Sband delay (usec)	-2.17056887345E+03				1.3860899E+00					
Phase delay (usec)	-2.17057040689E+03				4.2799997E-07					
Delay rate (us/s)	6.98680573012E-01				6.98680589162E-01					
Total phase (deg)			-305.8		3.82873076812E-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)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MSamp/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)										
pcal θ										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

g: az 142.5 el 51.0 pa -10.6 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gP.W.188.12BED8

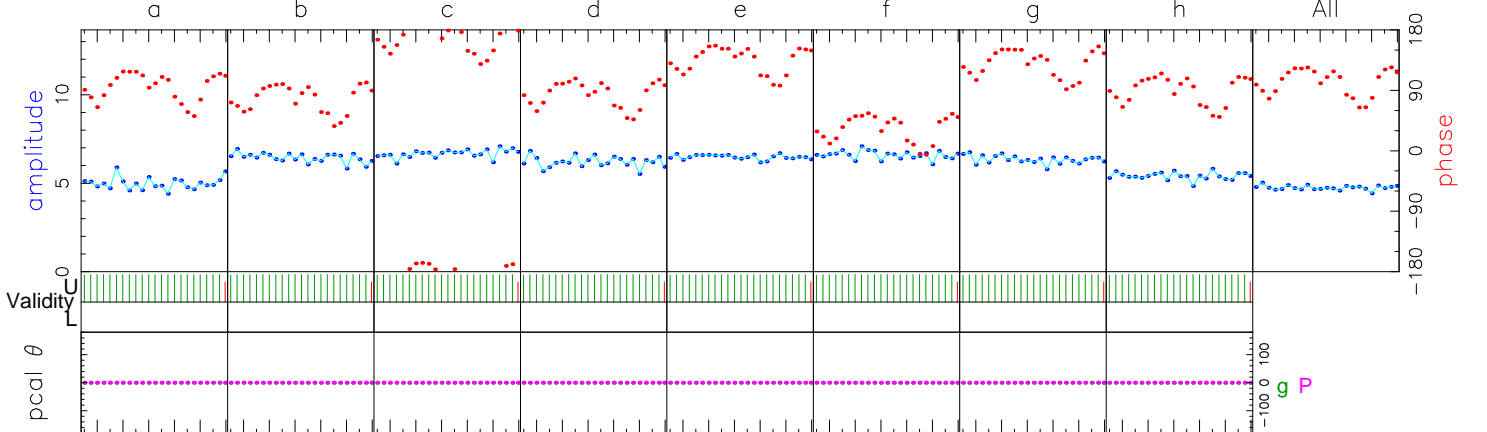


Fringe quality 5

SNR 228.6
Int time 336.640
Amp 4.557
Phase 102.0
PFD 0.0e+00
Delays (us)
SBD -0.002311
MBD 0.006981
Fringe rate (Hz)
-0.000768
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
2020:086:165635
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

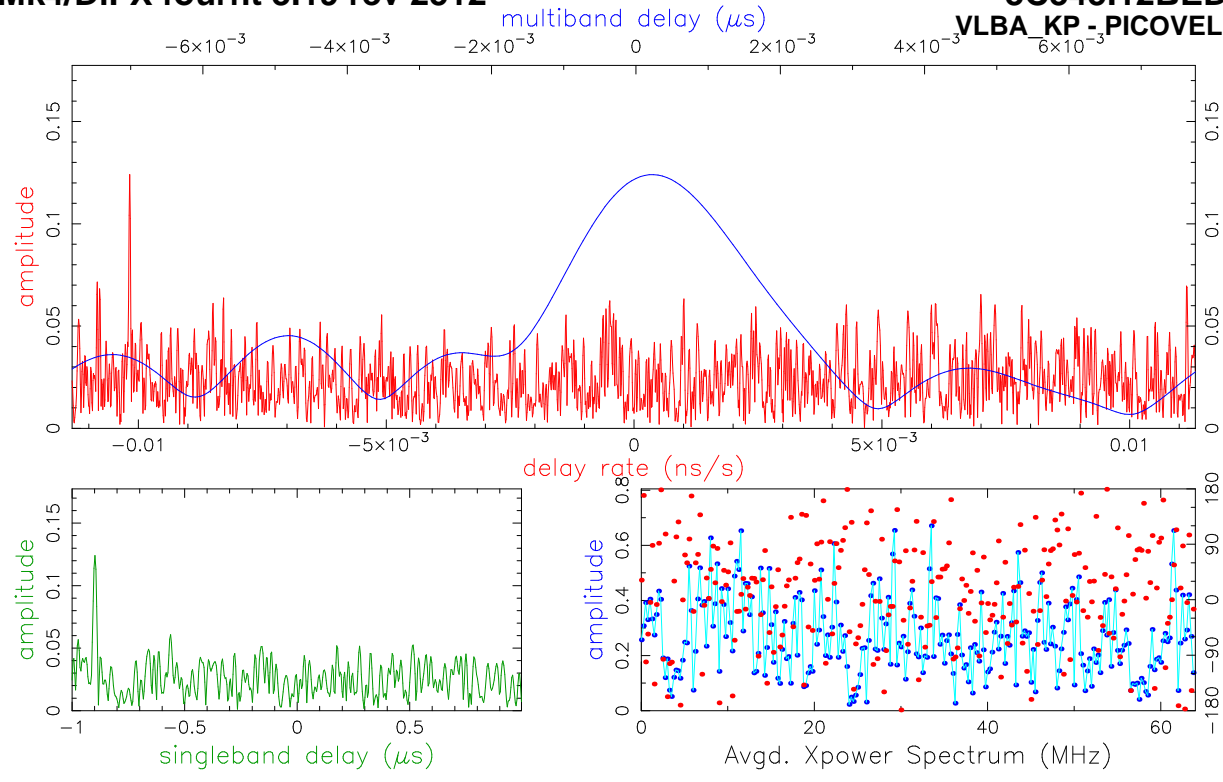
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	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		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.17057904517E+03									
Sband delay (usec)	-2.17057271195E+03									
Phase delay (usec)	-2.17057039791E+03									
Delay rate (us/s)	6.98680580241E-01									
Total phase (deg)			-27.4							
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)										
pcal θ										
Chan ids										
Tracks										
Chan ids										
Tracks										
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								
simultaneous interpolator										

g: az 142.5 el 51.0 pa -10.6 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gP.W.214.12BED8

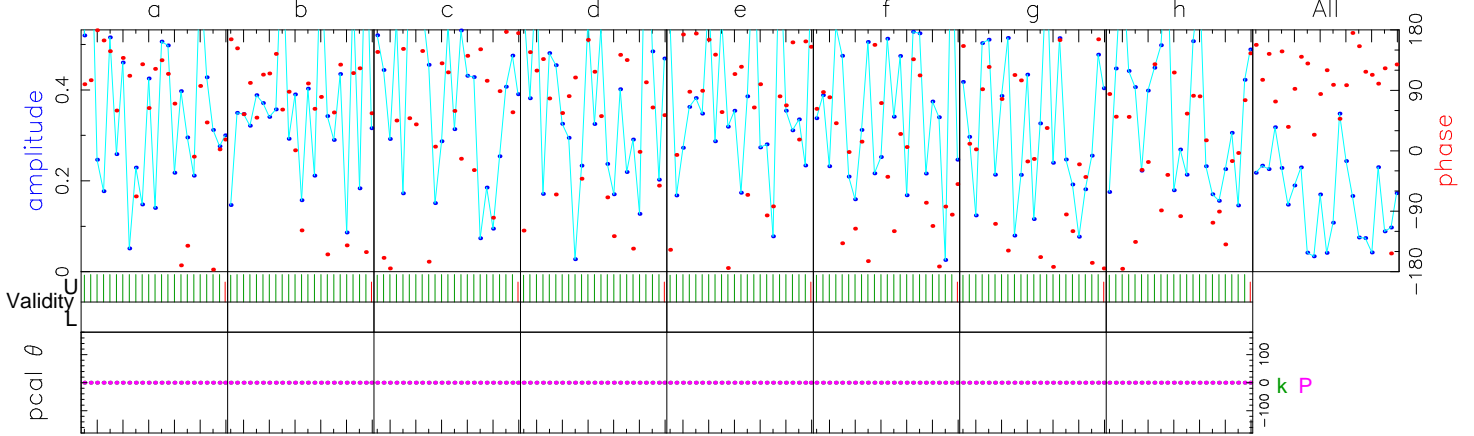


Fringe quality 0

SNR 6.2
Int time 336.738
Amp 0.177
Phase 109.9
PFD 1.2e-01
Delays (us)
SBD -0.898471
MBD 0.000224
Fringe rate (Hz)
-0.878020
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

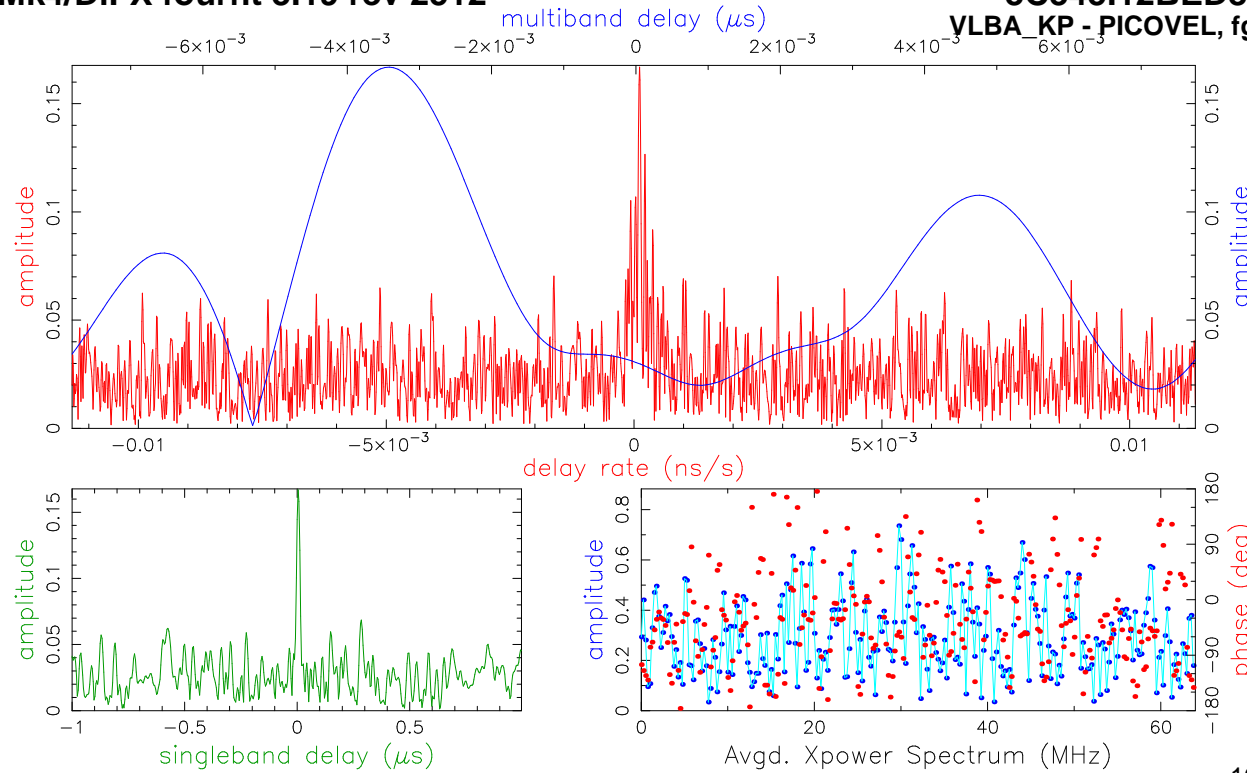
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165627
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-7.23997589633E+03								2.23790E-04	+/- 1.7E-04
Sband delay (usec)	-7.23996834162E+03								-8.98471E-01	+/- 1.4E-03
Phase delay (usec)	-7.23906986658E+03								3.54411E-06	+/- 5.9E-07
Delay rate (us/s)	1.52656852491E+00								-1.01929E-05	+/- 3.0E-09
Total phase (deg)			-110.6						109.9	+/- 18.4
Apriori delay (usec)					-7.23906987012E+03					
Apriori clock (usec)					-3.1195241E-01					
Apriori clockrate (us/s)					1.5842101E-07					
Apriori rate (us/s)					1.52657871785E+00					
Apriori accel (us/s/s)					3.31843554813E-05					
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)									-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
PC period (AP's) 5, 5										
SampCntNorm: enabled										

ph/seg (deg) 43.1 44.1 Search (2048X32) 0.121 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.9 77.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 65.3 26.0 Inc. seg. avg. 0.178 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 57.5 45.4 Inc. frq. avg. 0.171 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11319.294 1807.302 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/kP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kP.W.176.12BED8 simultaneous interpolator

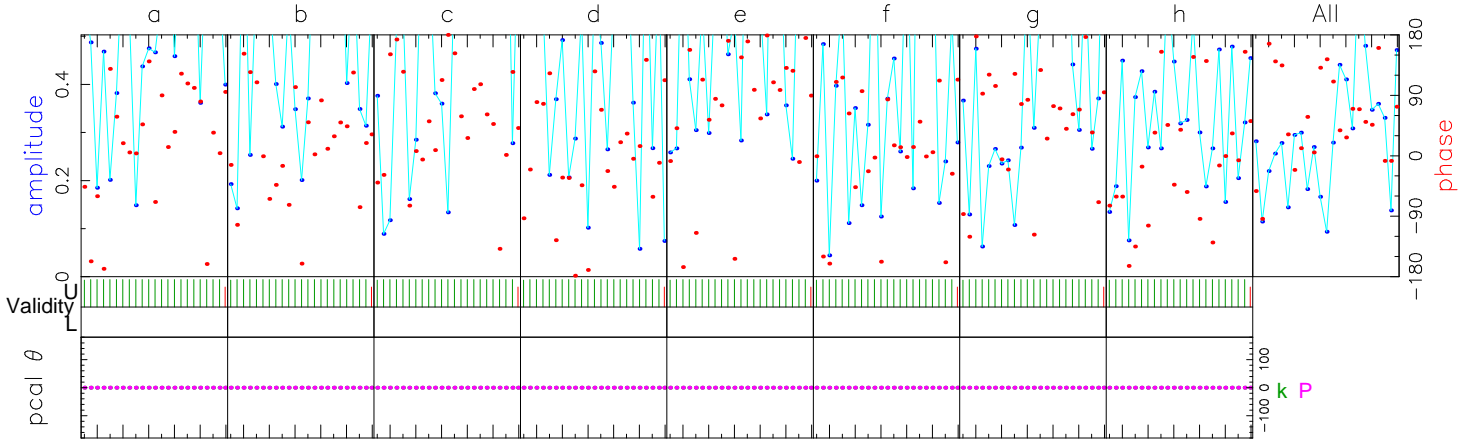


Fringe quality 9

SNR 8.4
Int time 336.738
Amp 0.168
Phase 55.2
PFD 1.4e-08
Delays (us)
SBD 0.004777
MBD -0.003400
Fringe rate (Hz) 0.009729
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

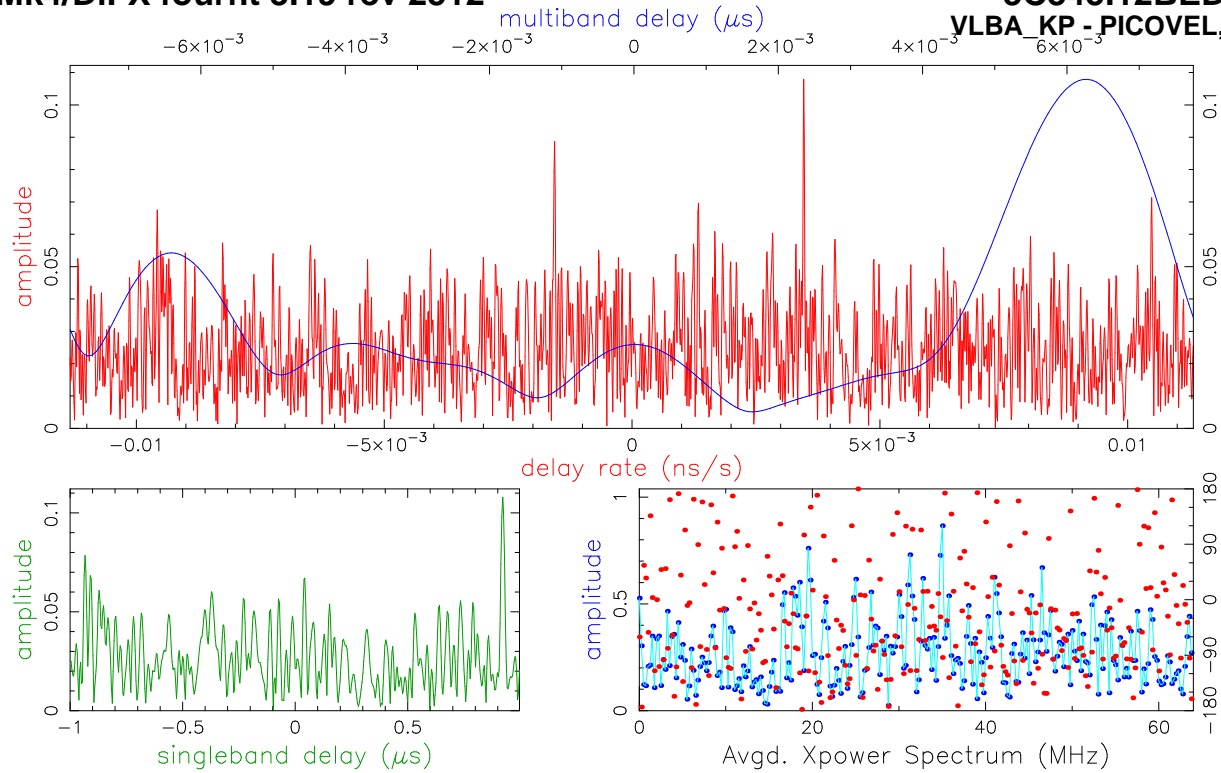
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:072:124544
2020:086:165632
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.23905764515E+03									
Sband delay (usec)	-7.23906509362E+03									
Phase delay (usec)	-7.23906986834E+03									
Delay rate (us/s)	1.52657883079E+00									
Total phase (deg)			-165.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									55.2	+/- 13.6
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 68.9 32.7 Search (2048X32) 0.166 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.8 57.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.4 19.3 Inc. seg. avg. 0.254 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.1 33.6 Inc. frq. avg. 0.199 Sample rate (MSamp/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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11319.294 1807.302 Data rate (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kP.W.201.12BED8

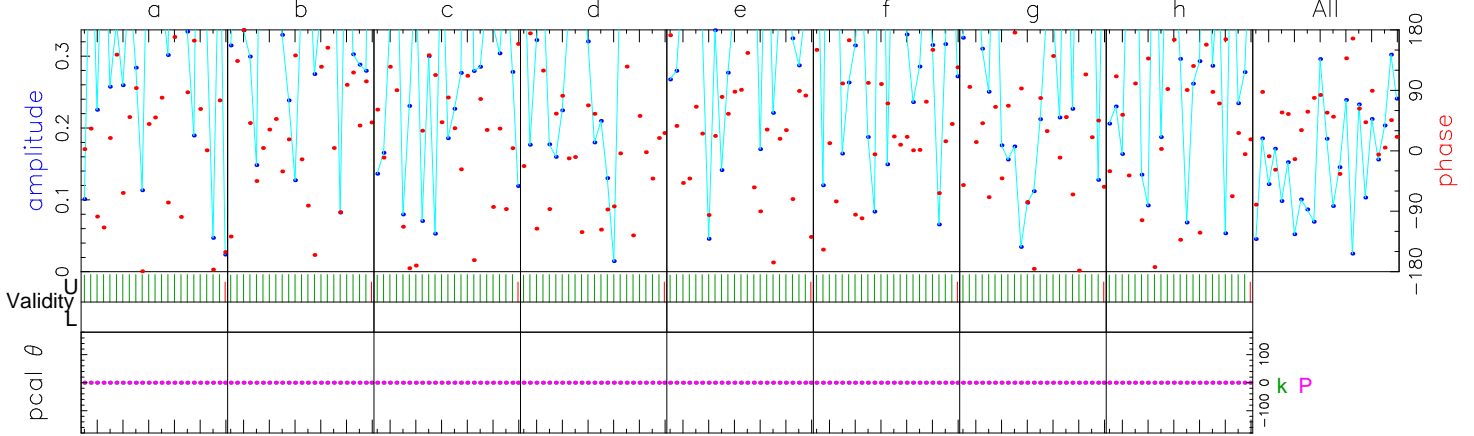


Fringe quality 0

SNR 5.4
Int time 336.738
Amp 0.112
Phase 47.5
PFD 1.0e+00
Delays (us)
SBD 0.922039
MBD 0.006263
Fringe rate (Hz)
0.299408
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

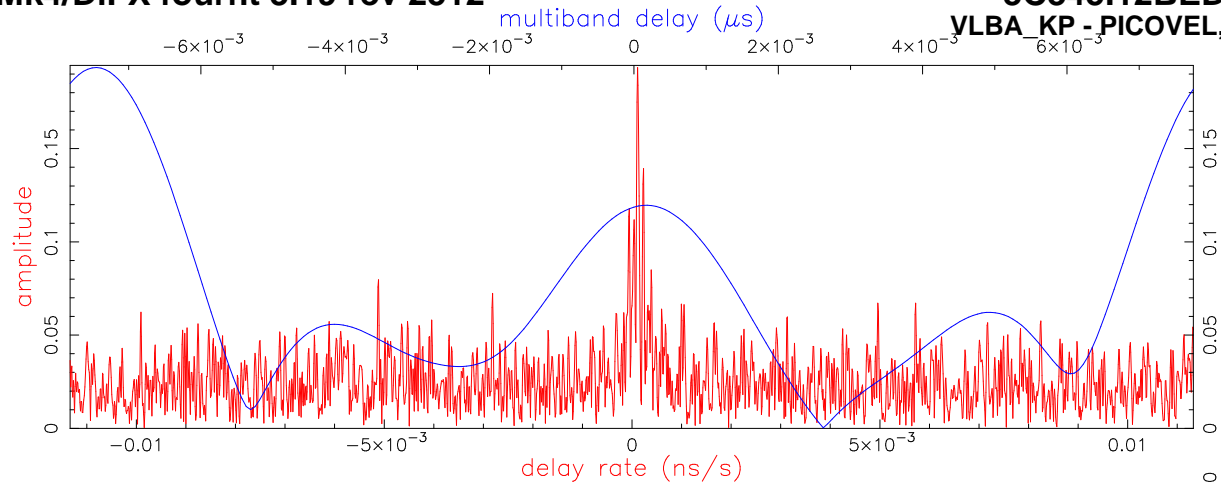
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165636
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



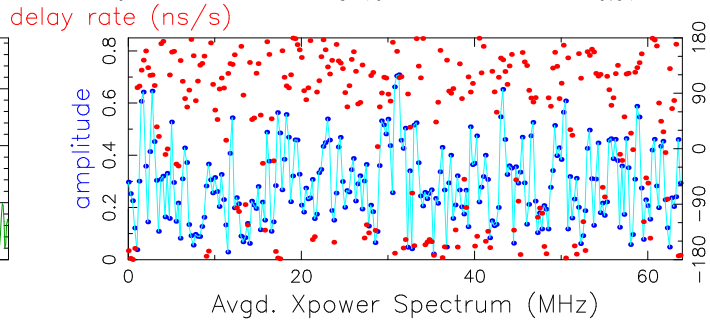
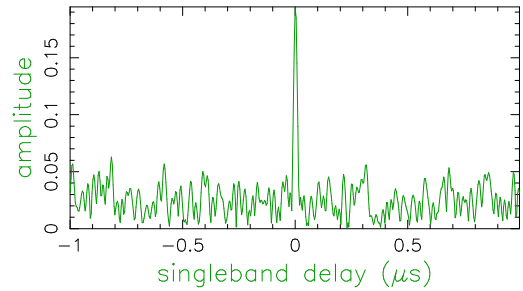
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.23814173195E+03								6.26318E-03	+/- 2.0E-04
Sband delay (usec)	-7.23814783087E+03								9.22039E-01	+/- 1.6E-03
Phase delay (usec)	-7.23906986859E+03								1.53028E-06	+/- 6.8E-07
Delay rate (us/s)	1.52658219369E+00								3.47583E-06	+/- 3.5E-09
Total phase (deg)			-173.0						47.5	+/- 21.2
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 55.2 50.7 Search (2048X32) 0.112 +/- 0.021 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 81.7 88.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.0 29.9 Inc. seg. avg. 0.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.2 52.2 Inc. frq. avg. 0.111 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11319.294 1807.302 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/kP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kP.W.216.12BED8 simultaneous interpolator



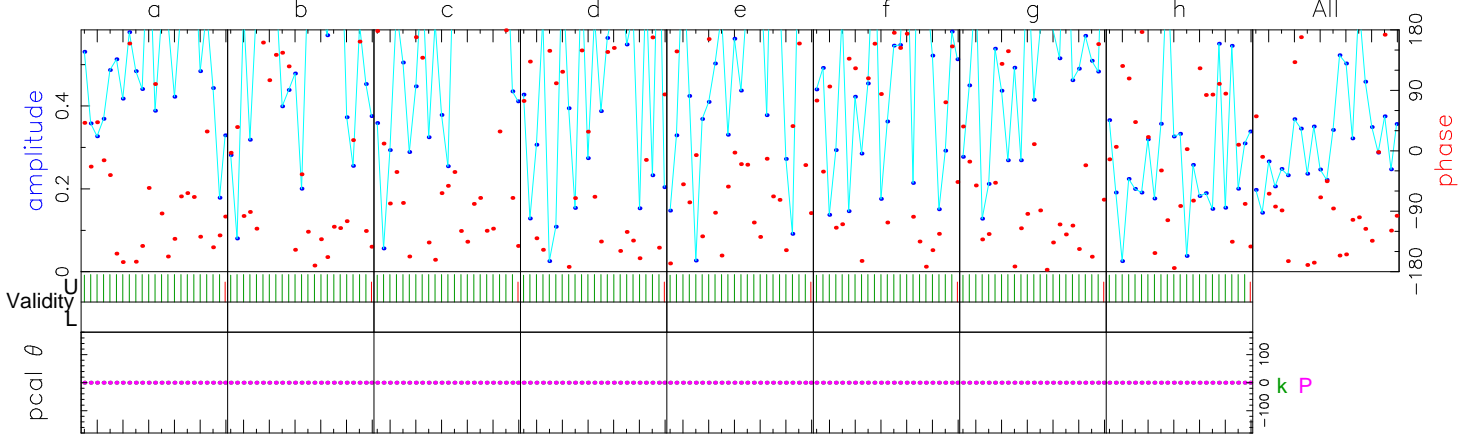
Fringe quality 9

SNR 9.8
Int time 336.738
Amp 0.195
Phase -124.5
PFD 6.5e-14
Delays (us)
SBD 0.001003
MBD -0.007431
Fringe rate (Hz)
0.009146
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



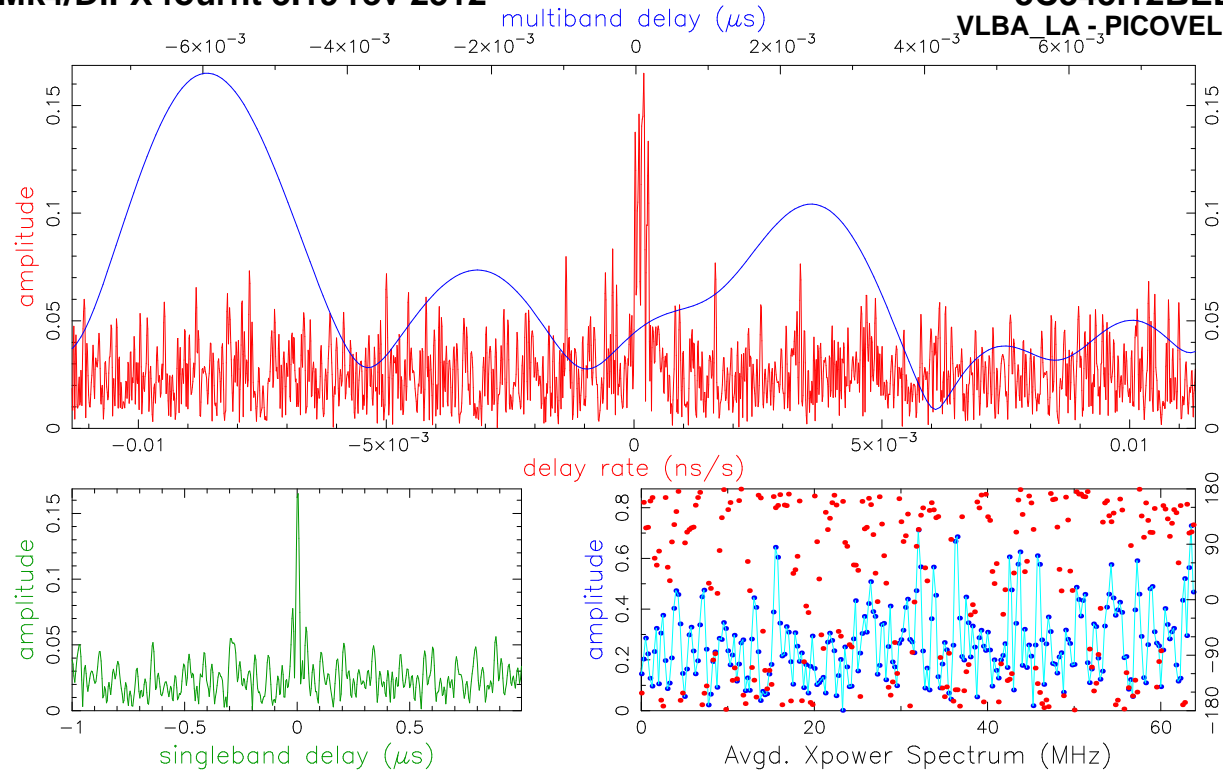
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165640
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
	-93.5	-150.2	-107.5	-167.0	-81.1	-175.2	-111.2	-85.7	Phase	-124.5
	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.0	Ampl.	0.2
	257.4	256.4	256.4	255.7	258.0	256.7	256.3	114.7	Sbd box	257.3
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.23906167587E+03		Apriori delay (usec)		-7.23906987012E+03		Resid mbdelay (usec)		-7.43075E-03	+/- 1.1E-04
Sband delay (usec)	-7.23906886662E+03		Apriori clock (usec)		-3.1195241E-01		Resid sbdelay (usec)		1.00350E-03	+/- 8.8E-04
Phase delay (usec)	-7.23906987414E+03		Apriori clockrate (us/s)		1.5842101E-07		Resid phdelay (usec)		-4.01324E-06	+/- 3.8E-07
Delay rate (us/s)	1.52657882403E+00		Apriori rate (us/s)		1.52657871785E+00		Resid rate (us/s)		1.06175E-07	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		3.31843554813E-05		Resid phase (deg)		-124.5	+/- 11.7

ph/seg (deg) 67.8 28.1 Search (2048X32) 0.190 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 89.9 49.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.5 16.6 Inc. seg. avg. 0.290 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.6 29.0 Inc. frq. avg. 0.223 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11319.294 1807.302 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kP.W.233.12BED8

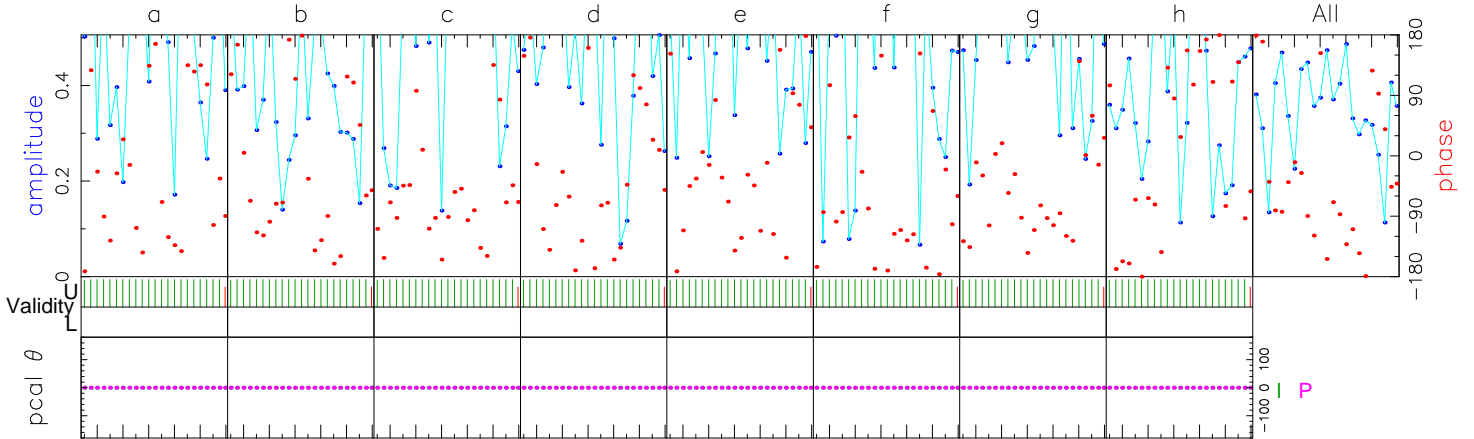


Fringe quality 9

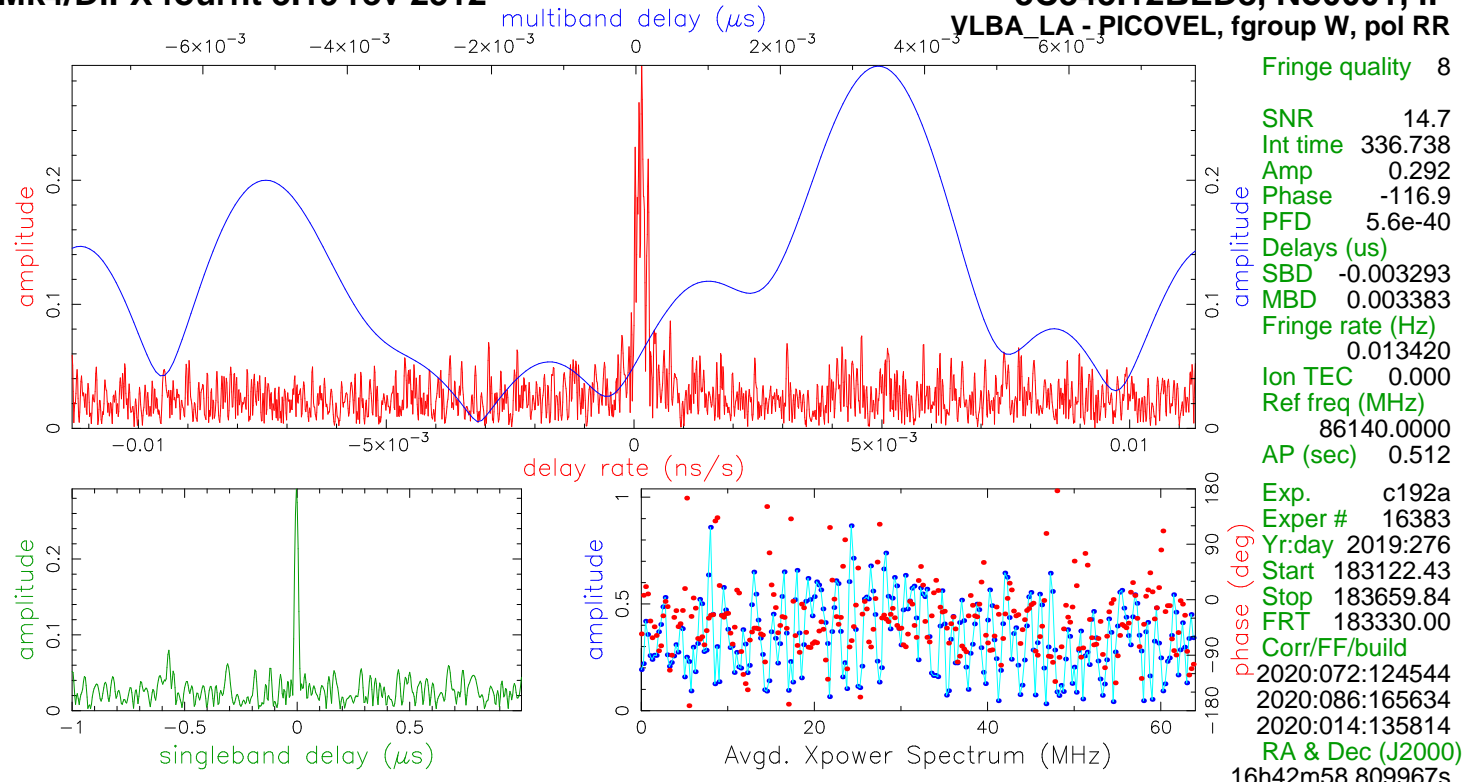
SNR 8.5
Int time 336.738
Amp 0.169
Phase -105.4
PFD 9.4e-09
Delays (us)
SBD 0.002232
MBD -0.005968
Fringe rate (Hz)
0.017013
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165630
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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.51232241017E+03	-5.51232983560E+03	-5.51233207050E+03	-5.51233206710E+03	-5.51233206710E+03	-5.51233206710E+03	-5.51233206710E+03	-5.51233206710E+03		
Sband delay (usec)	-5.51232983560E+03	-5.51232983560E+03	-5.51232983560E+03	-5.51232983560E+03	-5.51232983560E+03	-5.51232983560E+03	-5.51232983560E+03	-5.51232983560E+03		
Phase delay (usec)	-5.51233207050E+03	-5.51233207050E+03	-5.51233207050E+03	-5.51233207050E+03	-5.51233207050E+03	-5.51233207050E+03	-5.51233207050E+03	-5.51233207050E+03		
Delay rate (us/s)	1.45254580856E+00	1.45254580856E+00	1.45254580856E+00	1.45254580856E+00	1.45254580856E+00	1.45254580856E+00	1.45254580856E+00	1.45254580856E+00		
Total phase (deg)			-199.1							
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
I P										
Chan ids										
Tracks										
Chan ids										
Tracks										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										



Fringe quality 8

SNR 14.7

Int time 336.738

Amp 0.292

Phase -116.9

PFD 5.6e-40

Delays (us)

SBD -0.003293

MBD 0.003383

Fringe rate (Hz)

0.013420

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

2020:086:165634

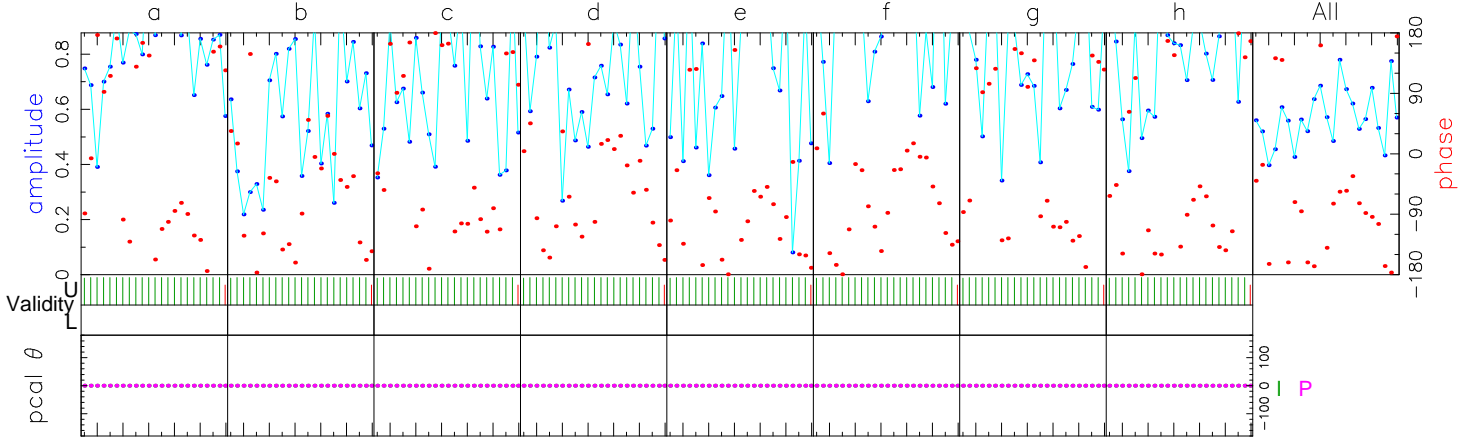
2020:014:135814

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

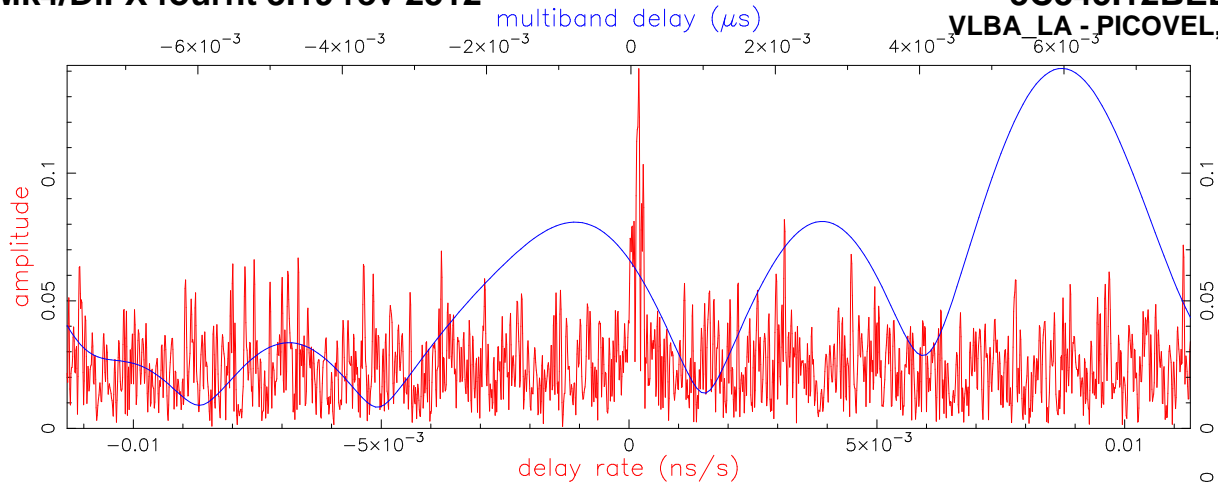


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-149.9	-61.9	-141.0	-70.3	-114.9	-62.9	-163.6	-135.8	Phase	-116.9
	0.4	0.2	0.3	0.3	0.4	0.4	0.4	0.5	Ampl.	0.4
	256.6	256.9	257.4	257.6	257.0	257.0	257.0	255.4	Sbd box	256.2
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.51232868449E+03		Apriori delay (usec)		-5.51233206710E+03		Resid mbdelay (usec)		3.38261E-03	+/- 7.4E-05
Sband delay (usec)	-5.51233535960E+03		Apriori clock (usec)		-6.5028608E-01		Resid sbdelay (usec)		-3.29250E-03	+/- 5.9E-04
Phase delay (usec)	-5.51233207087E+03		Apriori clockrate (us/s)		1.5279932E-09		Resid phdelay (usec)		-3.76904E-06	+/- 2.5E-07
Delay rate (us/s)	1.45254576685E+00		Apriori rate (us/s)		1.45254561106E+00		Resid rate (us/s)		1.55792E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		2.79932495079E-05		Resid phase (deg)		-116.9	+/- 7.8

	RMS	Theor.	Amplitude	0.292 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	61.1	18.7	Search (2048X32)	0.290	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	101.3	32.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	45.3	11.0	Inc. seg. avg.	0.543	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	37.4	19.3	Inc. frq. avg.	0.361	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

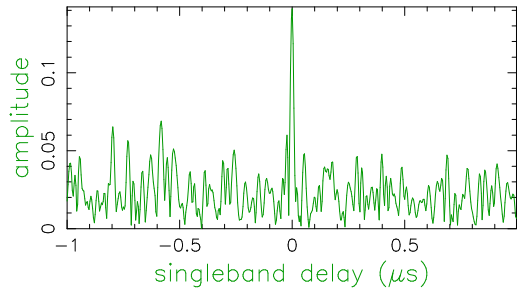
I: az 63.9 el 37.8 pa -72.0 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10775.658 1837.797 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IP.W.209.12BED8

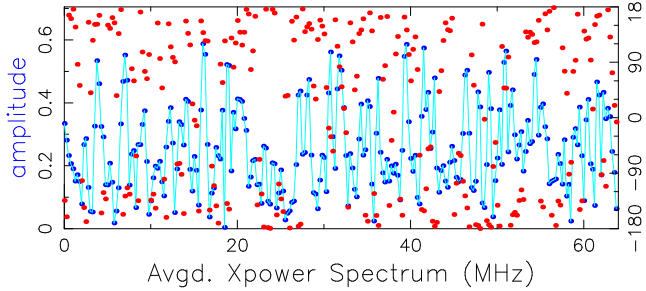


Fringe quality 0

SNR 7.1
Int time 336.738
Amp 0.142
Phase 84.0
PFD 2.9e-04
Delays (us)
SBD -0.001141
MBD 0.005916
Fringe rate (Hz)
0.017268
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

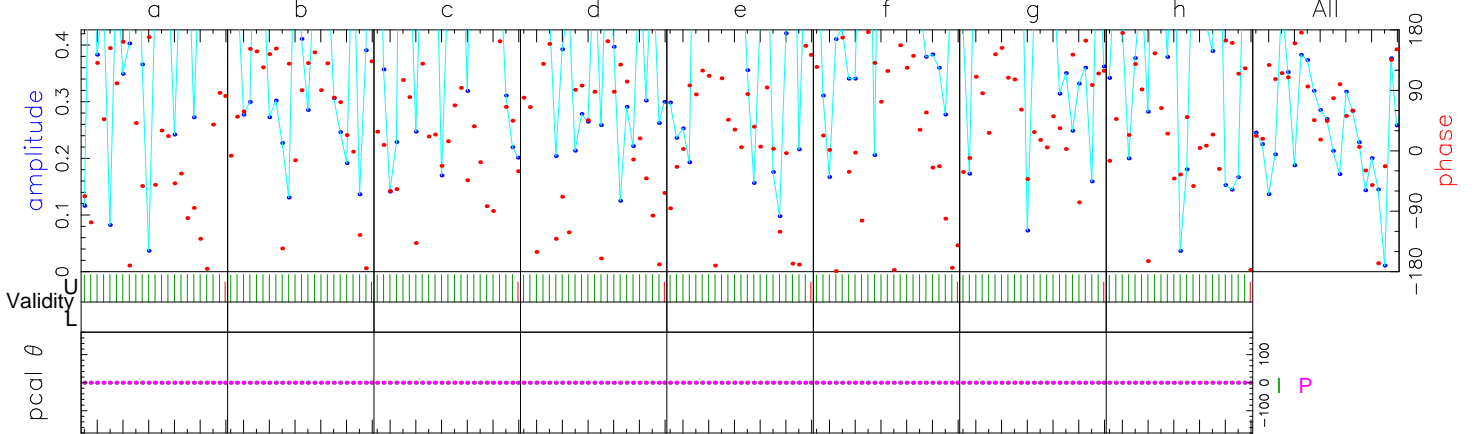


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
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, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



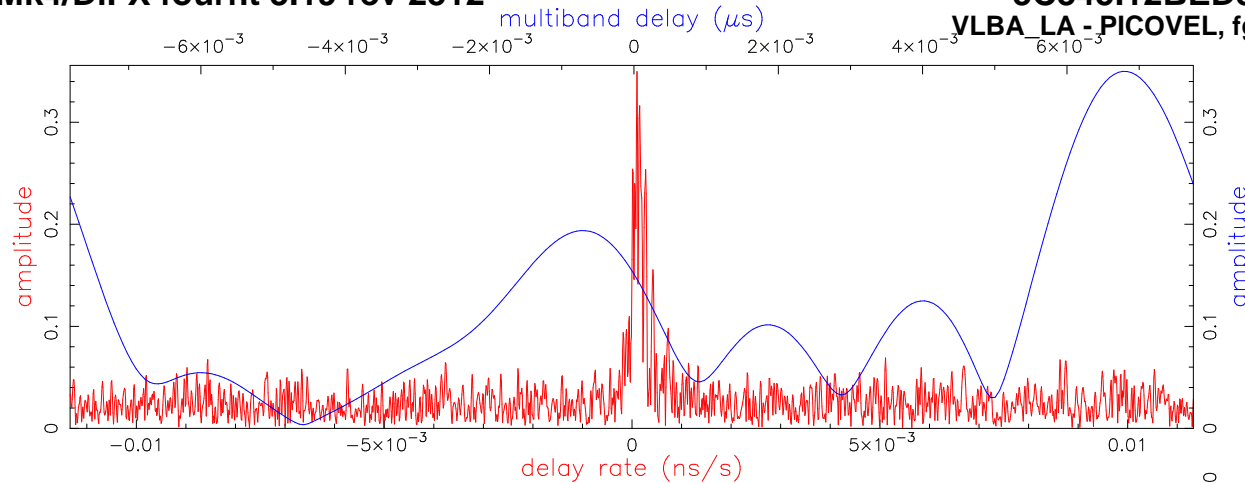
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	13.4	105.8	42.3	126.4	93.1	143.2	75.1	49.0	Phase	84.0
	0.1	0.2	0.3	0.1	0.2	0.2	0.1	0.1	Ampl.	0.2
	118.1	257.3	258.0	162.1	257.2	258.0	256.7	431.0	Sbd box	256.7
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.51232615073E+03		Apriori delay (usec)		-5.51233206710E+03		Resid mbdelay (usec)		5.91637E-03	+/- 1.5E-04
Sband delay (usec)	-5.51233320785E+03		Apriori clock (usec)		-6.5028608E-01		Resid sbdelay (usec)		-1.14075E-03	+/- 1.2E-03
Phase delay (usec)	-5.51233206440E+03		Apriori clockrate (us/s)		1.5279932E-09		Resid phdelay (usec)		2.70748E-06	+/- 5.2E-07
Delay rate (us/s)	1.45254581152E+00		Apriori rate (us/s)		1.45254561106E+00		Resid rate (us/s)		2.00463E-07	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.79932495079E-05		Resid phase (deg)		84.0	+/- 16.1

	RMS	Theor.	Amplitude	0.142 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	67.1	38.5	Search (2048X32)	0.140	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	105.3	67.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	48.1	22.7	Inc. seg. avg.	0.206	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	51.6	39.6	Inc. frq. avg.	0.161	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 63.9 el 37.8 pa -72.0 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10775.658 1837.797 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IP.W.224.12BED8

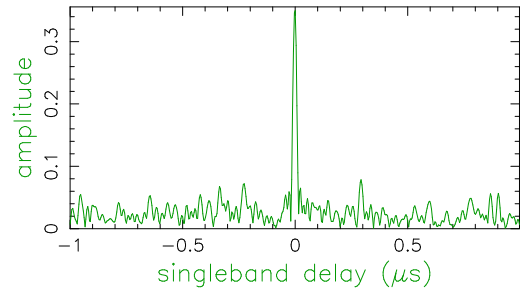
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, IP
VLBA_LA - PICOVEL, fgroup W, pol RL

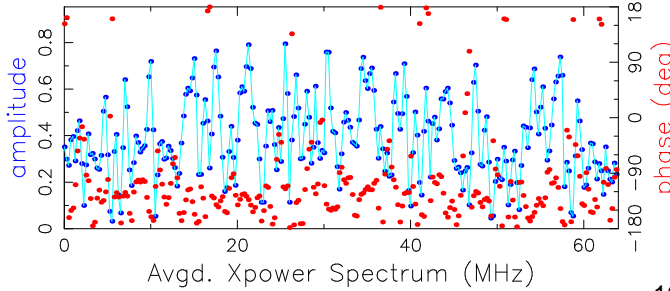


Fringe quality 8

SNR 17.9
Int time 336.738
Amp 0.356
Phase 134.1
PFD 0.0e+00
Delays (us)
SBD -0.001725
MBD 0.006749
Fringe rate (Hz)
0.009003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

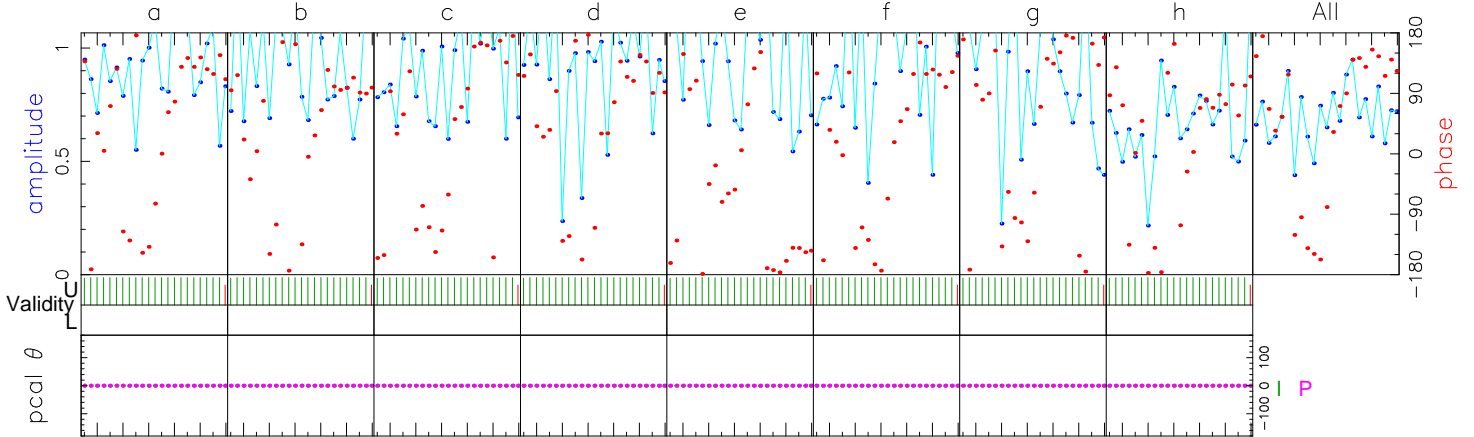


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165642
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
	134.3	100.4	163.3	111.5	-171.4	120.2	165.2	94.9	Phase	134.1
	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.3	Ampl.	0.4
	255.6	256.3	256.7	255.8	256.0	256.0	255.5	254.1	Sbd box	256.6
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.51234094285E+03	Apriori delay (usec)	-5.51233206710E+03	Resid mbdelay (usec)	6.74925E-03	+/-	6.1E-05
Sband delay (usec)	-5.51233379235E+03	Apriori clock (usec)	-6.5028608E-01	Resid sbdelay (usec)	-1.72525E-03	+/-	4.8E-04
Phase delay (usec)	-5.51233206278E+03	Apriori clockrate (us/s)	1.5279932E-09	Resid phdelay (usec)	4.32352E-06	+/-	2.1E-07
Delay rate (us/s)	1.45254571558E+00	Apriori rate (us/s)	1.45254561106E+00	Resid rate (us/s)	1.04521E-07	+/-	1.1E-09
Total phase (deg)	40.4	Apriori accel (us/s/s)	2.79932495079E-05	Resid phase (deg)	134.1	+/-	6.4

ph/seg (deg)	68.9	RMS	15.4	Theor.	15.4	Amplitude	0.356 +/- 0.020	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	103.8	Search (2048X32)	0.335	Search (2048X32)	0.335	Apriori clock (usec)	0.335	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	36.9	Interp.	0.000	Interp.	0.000	Apriori clockrate (us/s)	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	21.3	Inc. seg. avg.	0.679	Inc. seg. avg.	0.679	Apriori rate (us/s)	1.45254561106E+00	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.403	Inc. frq. avg.	0.403	Apriori accel (us/s/s)	2.79932495079E-05	Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	

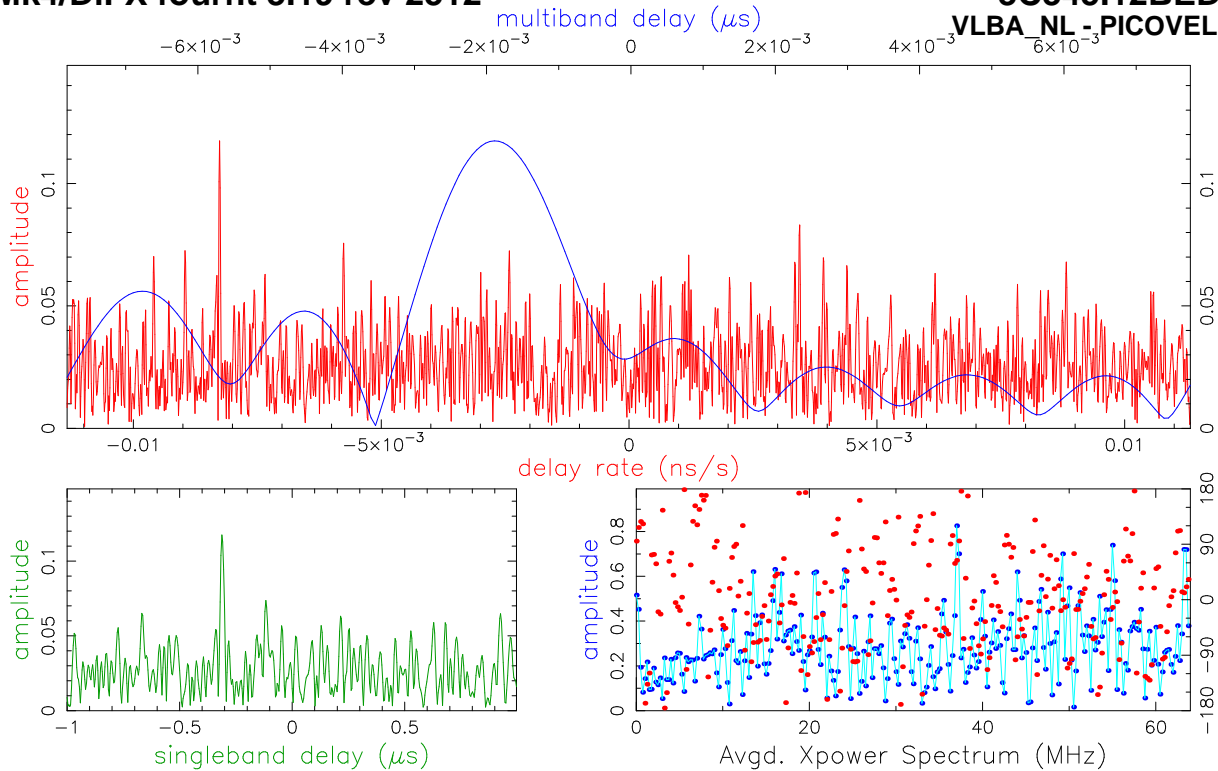
I: az 63.9 el 37.8 pa -72.0

P: az 286.6 el 62.3 pa 84.7

u, v (fr/asec) -10775.658 1837.797

simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/IP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/IP.W.242.12BED8

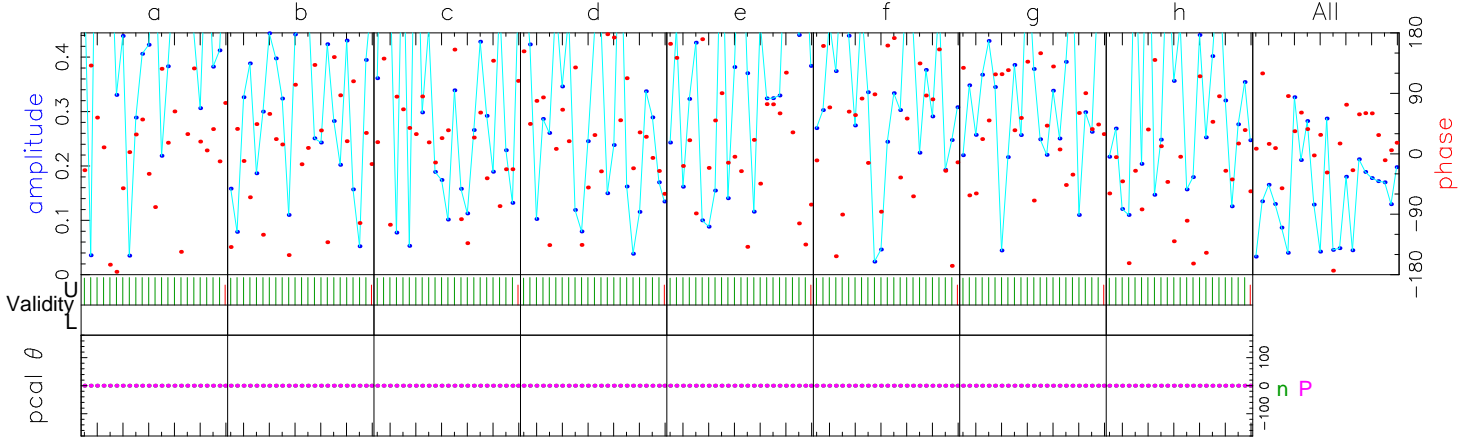


Fringe quality 0

SNR 5.9
Int time 336.738
Amp 0.148
Phase 30.1
PFD 5.7e-01
Delays (us)
SBD -0.311597
MBD -0.001881
Fringe rate (Hz)
-0.712090
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
2020:086:165643
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



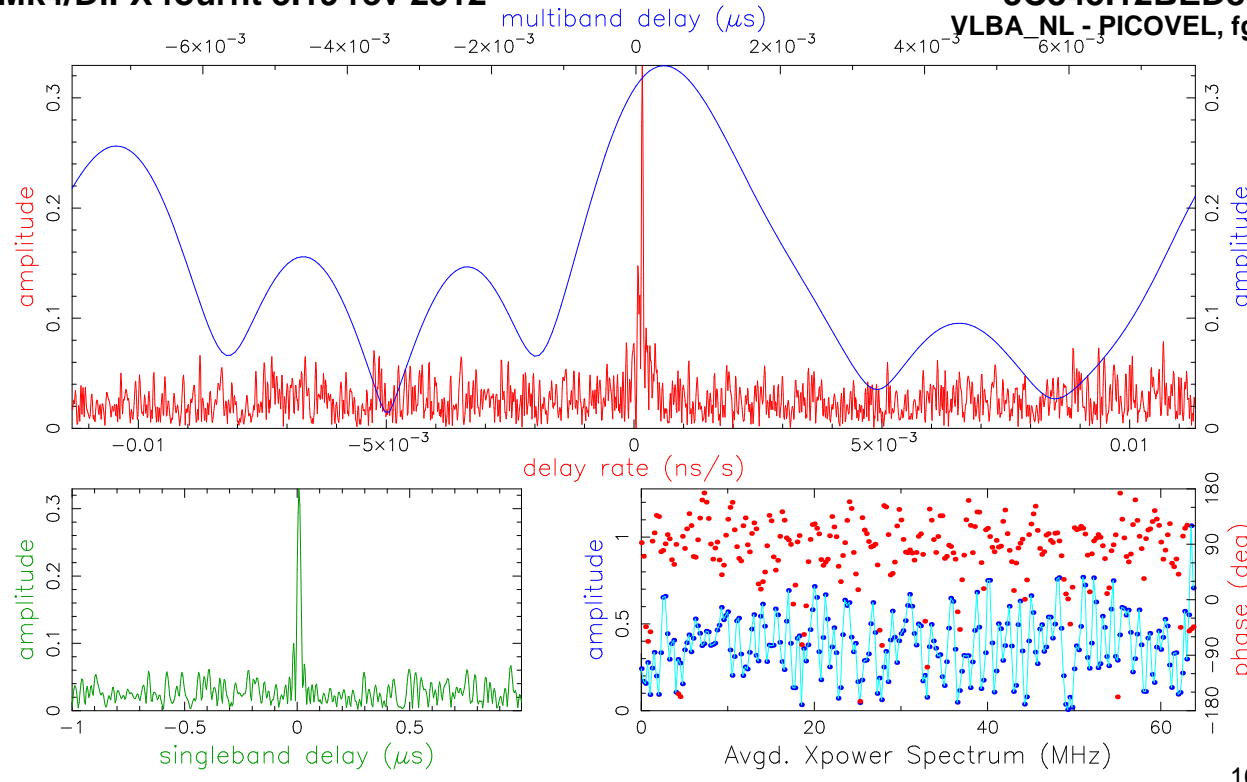
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.12526497037E+03	Apriori delay (usec)	-2.12495058932E+03	Resid mbdelay (usec)	-1.88105E-03	+/-	1.8E-04
Sband delay (usec)	-2.12526218632E+03	Apriori clock (usec)	2.6565306E+01	Resid sbdelay (usec)	-3.11597E-01	+/-	1.5E-03
Phase delay (usec)	-2.12495058834E+03	Apriori clockrate (us/s)	4.8722349E-07	Resid phdelay (usec)	9.72060E-07	+/-	6.2E-07
Delay rate (us/s)	1.26459461142E+00	Apriori rate (us/s)	1.26460287808E+00	Resid rate (us/s)	-8.26666E-06	+/-	3.2E-09
Total phase (deg)	-244.8	Apriori accel (us/s/s)	1.60013151196E-05	Resid phase (deg)	30.1	+/-	19.4

ph/seg (deg)	50.9	Theor.	46.4	Search (2048X32)	0.114	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	75.0		81.1	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)	24.6		27.4	Inc. seg. avg.	0.141	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	32.5		47.8	Inc. frq. avg.	0.140	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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.247.12BED8

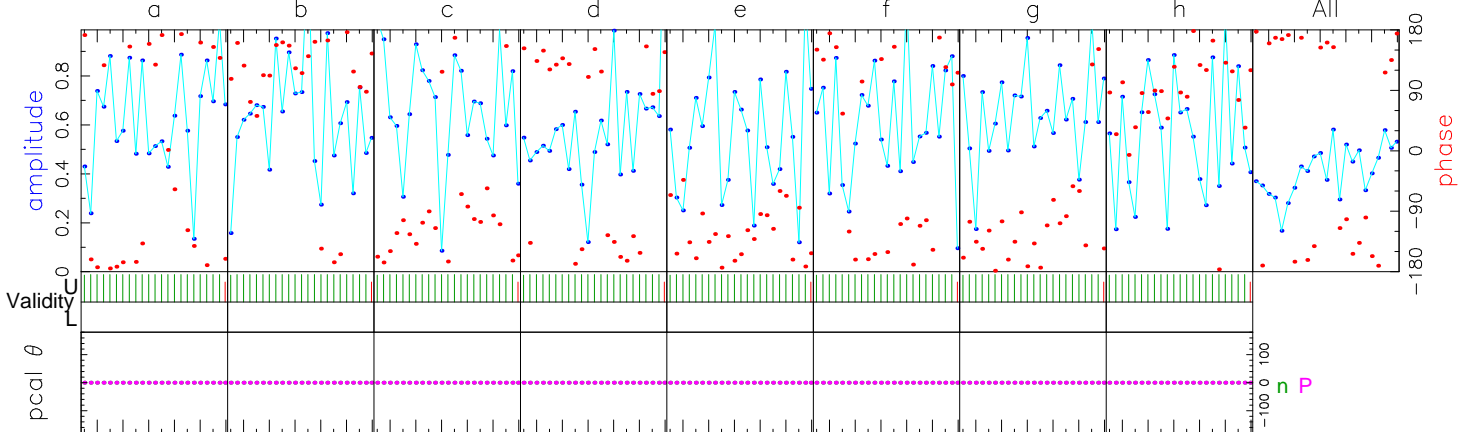


Fringe quality 7

SNR 16.5
Int time 336.738
Amp 0.329
Phase -175.6
PFD 0.0e+00
Delays (us)
SBD 0.008159
MBD 0.000397
Fringe rate (Hz) 0.014426
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

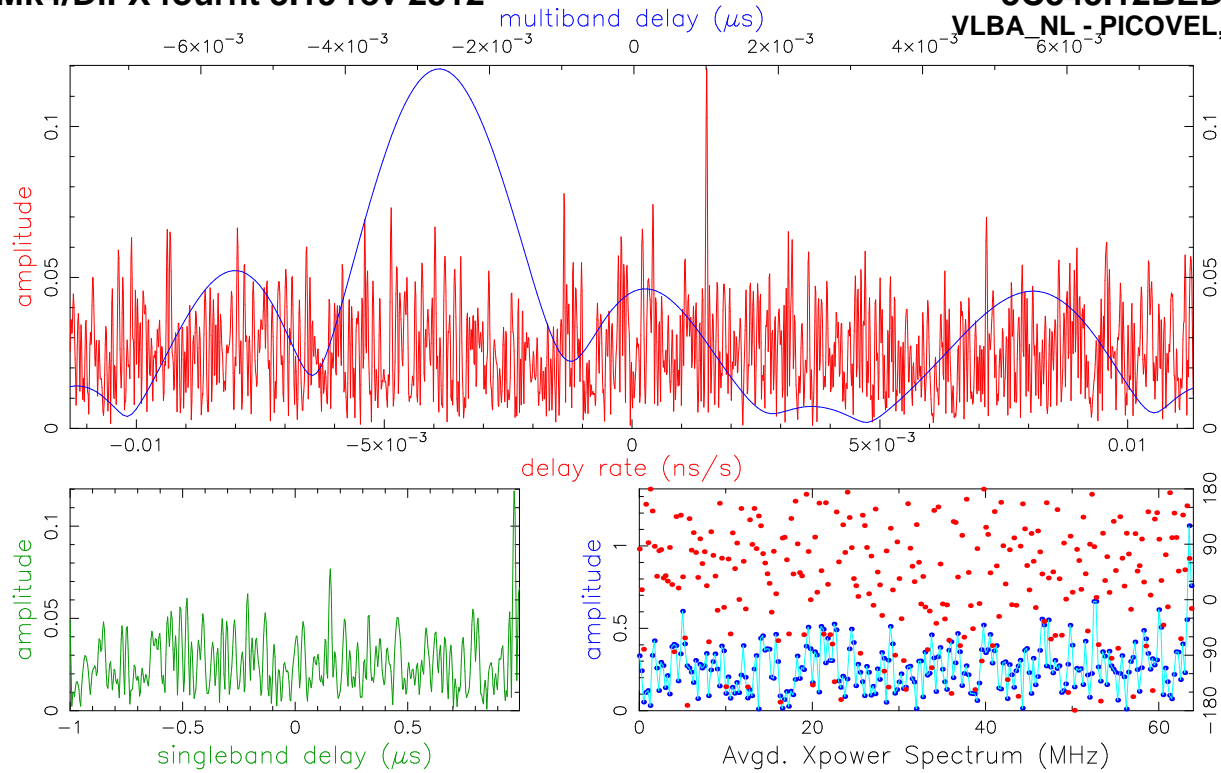
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165647
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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	178.1	138.2	-127.4	162.9	-126.2	177.5	-135.0	99.8	Phase	-175.6
n	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.4	Ampl.	0.5
P	258.3	258.7	258.9	258.2	258.3	258.1	258.1	257.9	Sbd box	259.1
n:P	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-2.12495019227E+03		Apriori delay (usec)		-2.12495058932E+03		Resid mbdelay (usec)		3.97049E-04	+/- 6.6E-05
Sband delay (usec)	-2.12494242982E+03		Apriori clock (usec)		2.6565306E+01		Resid sbdelay (usec)		8.15950E-03	+/- 5.2E-04
Phase delay (usec)	-2.12495059498E+03		Apriori clockrate (us/s)		4.8722349E-07		Resid phdelay (usec)		-5.66196E-06	+/- 2.2E-07
Delay rate (us/s)	1.26460304555E+00		Apriori rate (us/s)		1.26460287808E+00		Resid rate (us/s)		1.67472E-07	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.60013151196E-05		Resid phase (deg)		-175.6	+/- 6.9

ph/seg (deg) 36.3 16.6 Search (2048X32) 0.326 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 39.5 29.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 52.1 9.8 Inc. seg. avg. 0.394 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 41.3 17.1 Inc. frq. avg. 0.451 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.267.12BED8

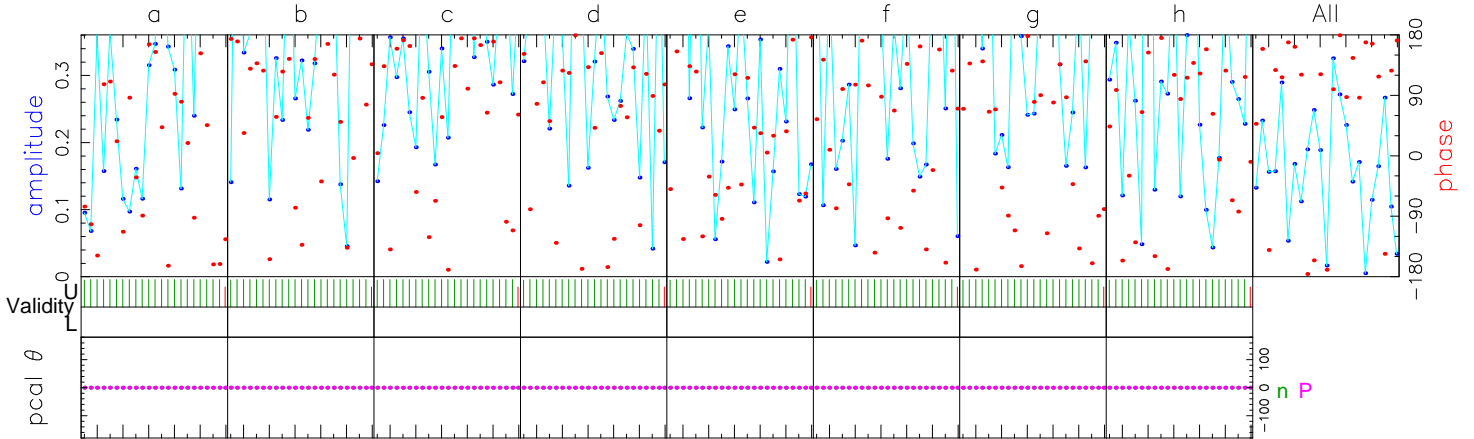


Fringe quality 0

SNR 6.0
Int time 336.738
Amp 0.120
Phase 144.3
PFD 4.2e-01
Delays (us)
SBD 0.973178
MBD -0.002709
Fringe rate (Hz) 0.129905
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
2020:086:165651
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

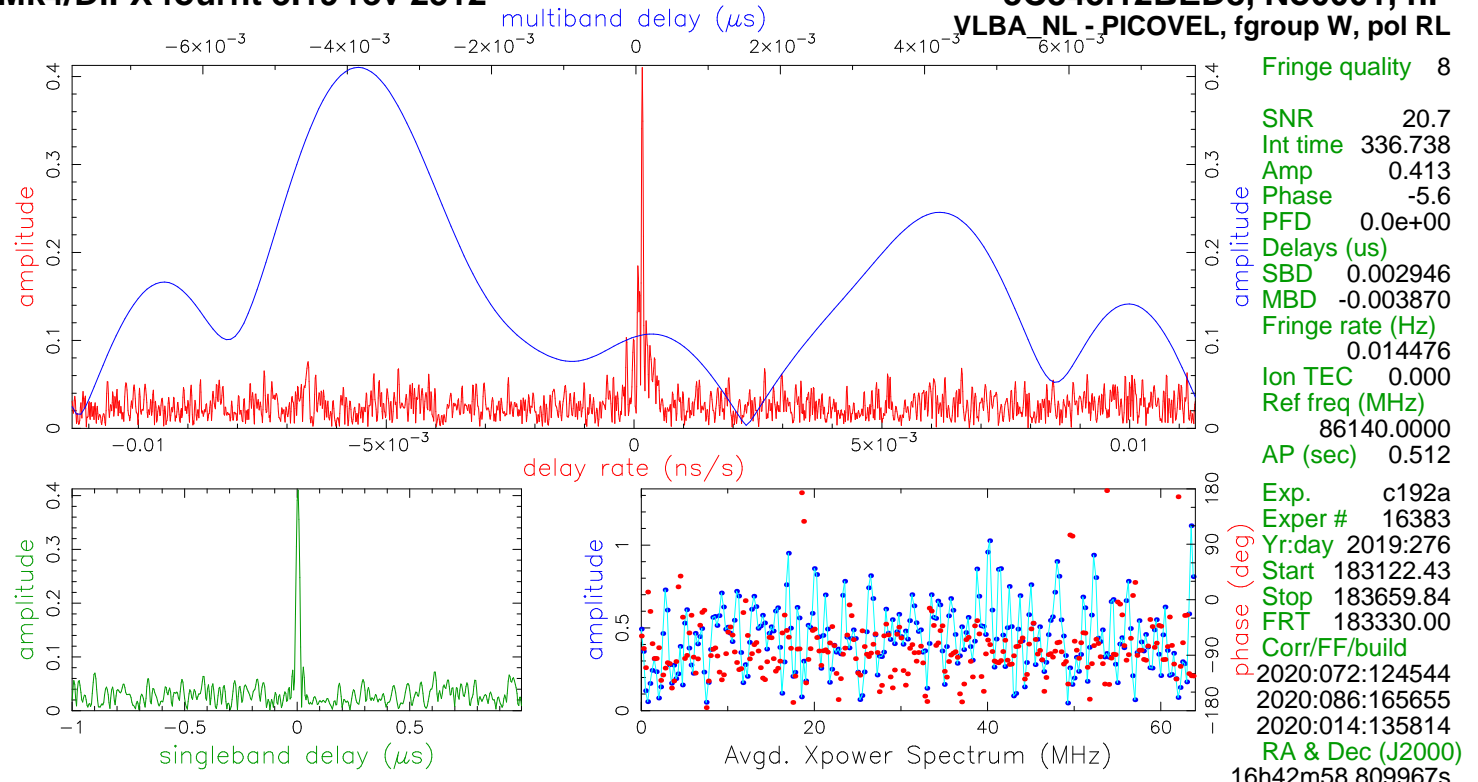
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



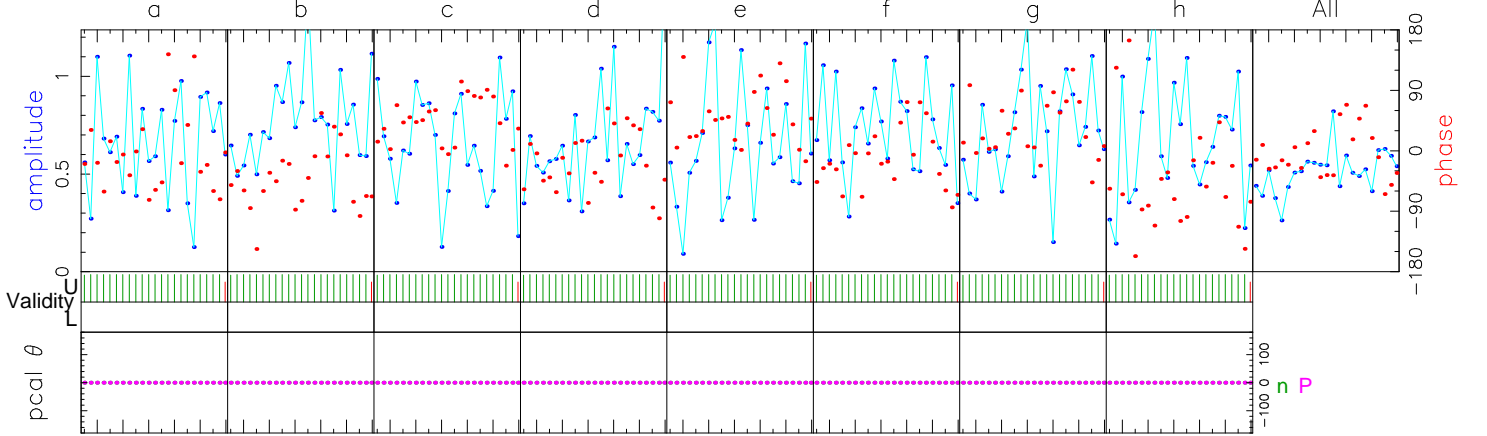
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.12398454862E+03									
Sband delay (usec)	-2.12397741107E+03									
Phase delay (usec)	-2.12495058466E+03									
Delay rate (us/s)	1.26460438614E+00									
Total phase (deg)			-130.6							
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)									144.3	+/- 19.1
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)									-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

n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.292.12BED8



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

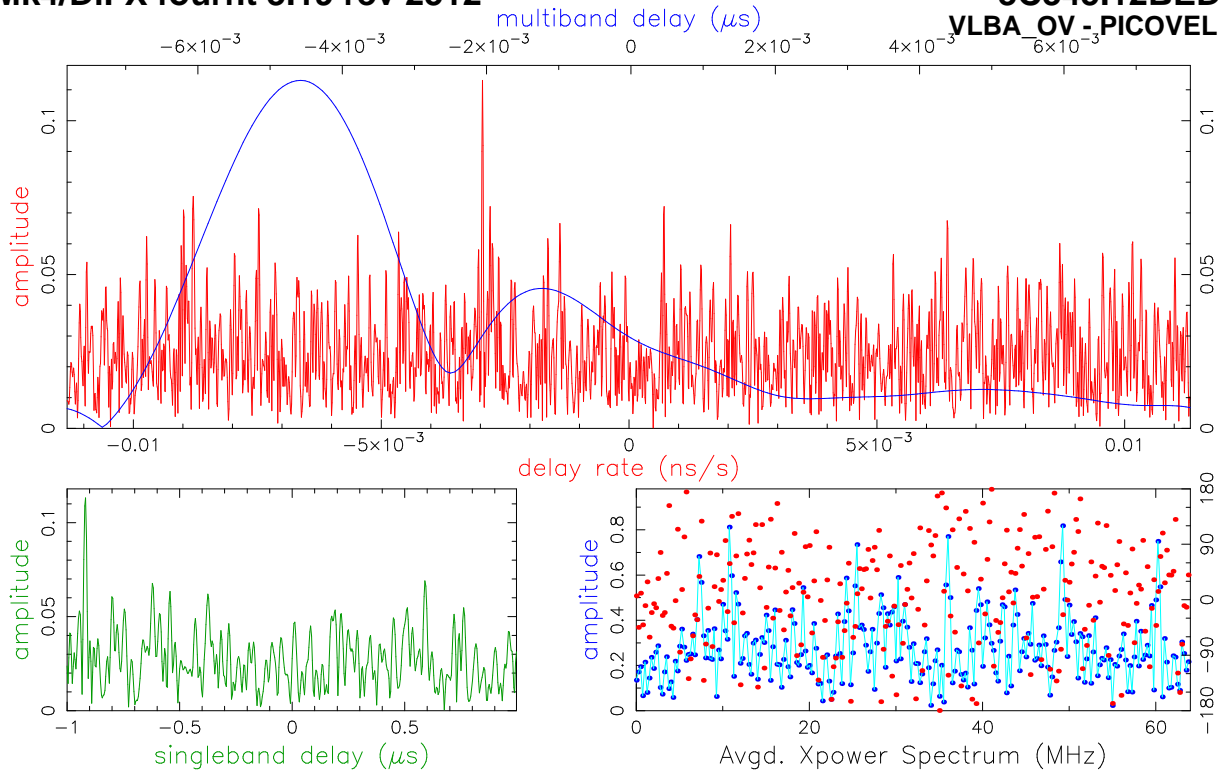


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-22.3	-40.6	42.2	-19.0	42.8	-13.5	30.1	-72.4	Phase	-5.6
	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	Ampl.	0.5
	257.3	257.6	257.7	257.0	257.1	257.4	257.1	257.2	Sbd box	257.8
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.12495445936E+03		Apriori delay (usec)		-2.12495058932E+03		Resid mbdelay (usec)		-3.87005E-03	+/- 5.2E-05
Sband delay (usec)	-2.12494764332E+03		Apriori clock (usec)		2.6565306E+01		Resid sbdelay (usec)		2.94600E-03	+/- 4.2E-04
Phase delay (usec)	-2.12495058950E+03		Apriori clockrate (us/s)		4.8722349E-07		Resid phdelay (usec)		-1.79398E-07	+/- 1.8E-07
Delay rate (us/s)	1.26460304613E+00		Apriori rate (us/s)		1.26460287808E+00		Resid rate (us/s)		1.68052E-07	+/- 9.2E-10
Total phase (deg)			Apriori accel (us/s/s)		1.60013151196E-05		Resid phase (deg)		-5.6	+/- 5.5

	RMS	Theor.	Amplitude	0.413 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	36.8	13.3	Search (2048X32)	0.406	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	35.9	23.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.9	7.8	Inc. seg. avg.	0.501	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	27.6	13.7	Inc. frq. avg.	0.516	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.307.12BED8

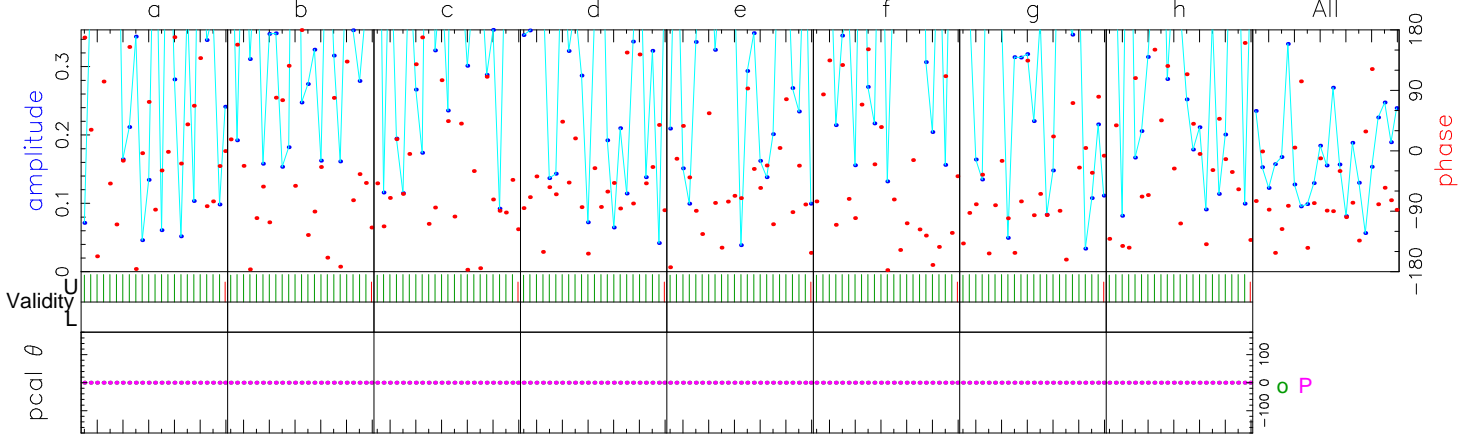


Fringe quality 0

SNR 5.8
Int time 336.738
Amp 0.118
Phase -77.0
PFD 8.8e-01
Delays (us)
SBD -0.919308
MBD -0.004566
Fringe rate (Hz)
-0.254681
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
2020:086:165646
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



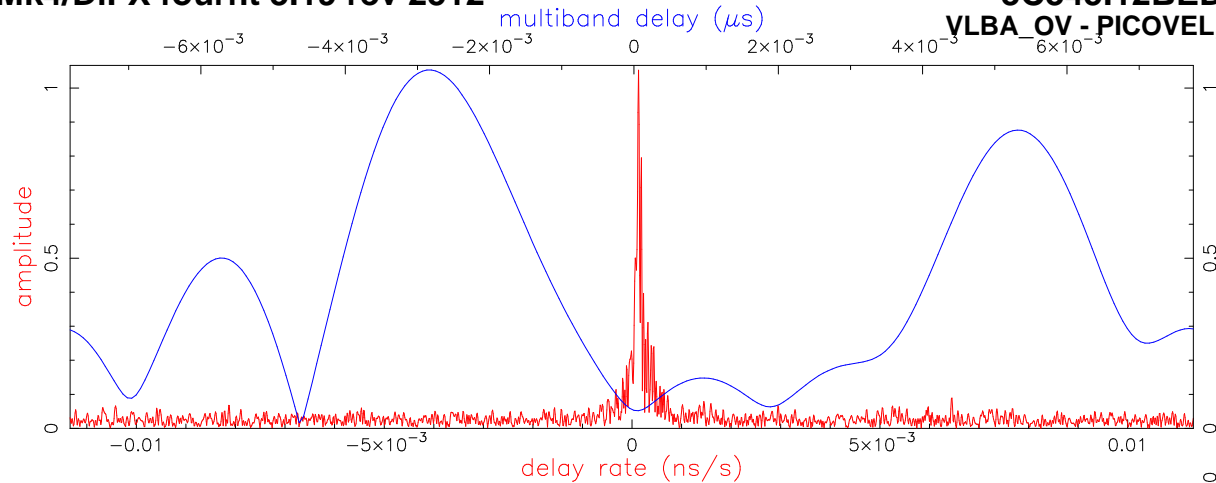
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.8	-80.5	-77.5	-61.7	-52.5	-116.7	-90.5	-53.5	Phase	-77.0
	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	447.3	112.0	57.2	142.8	188.1	198.0	389.4	501.5	Sbd box	21.7
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.92575418126E+03	Apriori delay (usec)	-7.92482774029E+03	Resid mbdelay (usec)	-4.56596E-03	+/-	1.9E-04
Sband delay (usec)	-7.92574704804E+03	Apriori clock (usec)	1.6719748E+01	Resid sbdelay (usec)	-9.19308E-01	+/-	1.5E-03
Phase delay (usec)	-7.92482774278E+03	Apriori clockrate (us/s)	3.5398100E-07	Resid phdelay (usec)	-2.48223E-06	+/-	6.4E-07
Delay rate (us/s)	1.49545466922E+00	Apriori rate (us/s)	1.49545762581E+00	Resid rate (us/s)	-2.95660E-06	+/-	3.3E-09
Total phase (deg)	-274.6	Apriori accel (us/s/s)	4.23835004818E-05	Resid phase (deg)	-77.0	+/-	19.9

ph/seg (deg)	68.0	Theor.	47.7	Amplitude	0.118 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	73.2		83.3	Search (2048X32)	0.111	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	23.8		28.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	37.5		49.1	Inc. seg. avg.	0.129	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.110	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

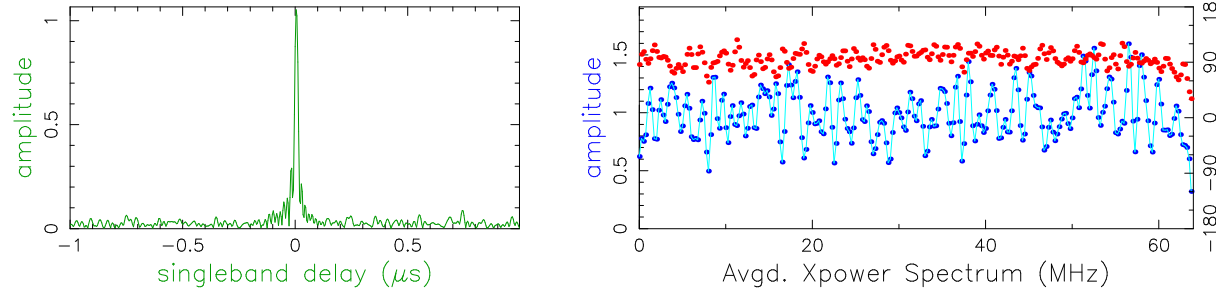
o: az 60.7 el 29.9 pa -64.6 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11070.428 2921.183 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/oP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/oP.W.260.12BED8



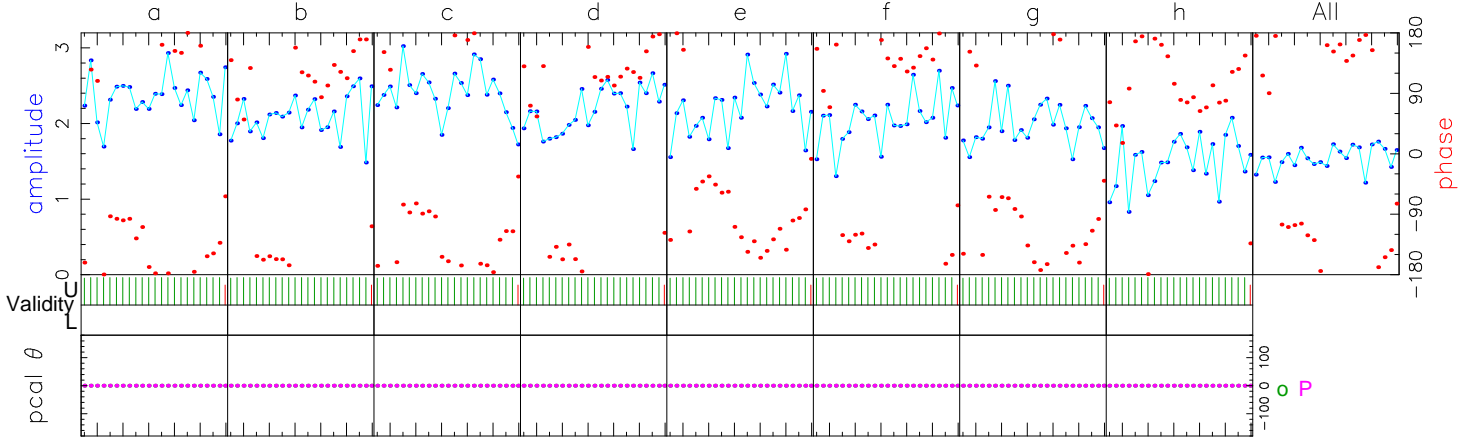
Fringe quality 2

SNR 53.5
Int time 336.738
Amp 1.066
Phase -171.2
PFD 0.0e+00
Delays (us)
SBD 0.005314
MBD -0.002791
Fringe rate (Hz)
0.011305
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

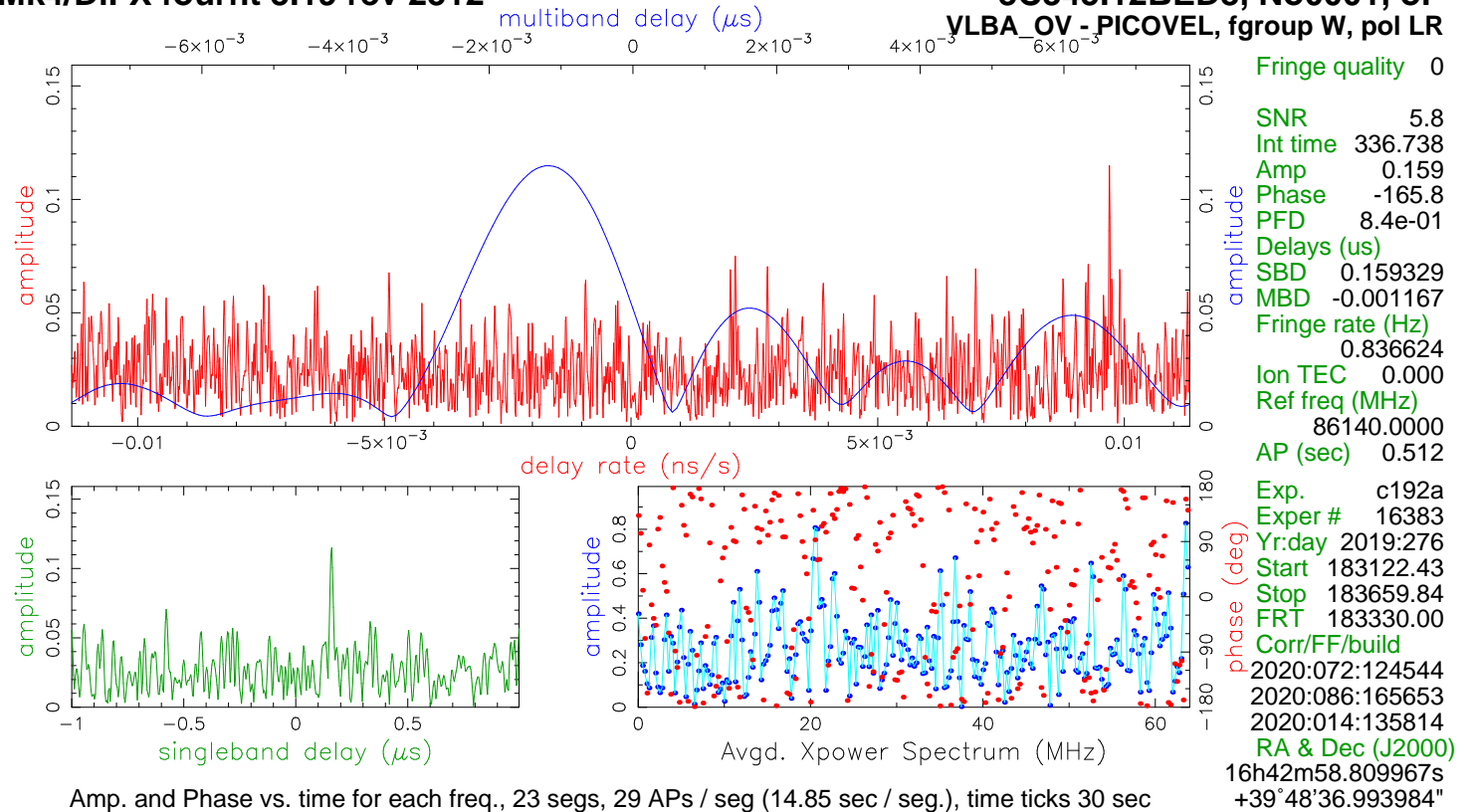


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.92481490582E+03				-7.92482774029E+03					
Sband delay (usec)	-7.92482242629E+03				1.6719748E+01					
Phase delay (usec)	-7.92482774582E+03				3.5398100E-07					
Delay rate (us/s)	1.49545775706E+00				1.49545762581E+00					
Total phase (deg)			-8.8		4.23835004818E-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)										
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										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
ph/seg (deg)	48.5	5.1			1.045					
amp/seg (%)	47.0	9.0			0.000					
ph/frq (deg)	52.6	3.0			1.538					
amp/frq (%)	38.3	5.3			1.426					
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
o: az 60.7 el 29.9 pa -64.6										
P: az 286.6 el 62.3 pa 84.7										
u,v (fr/asec) -11070.428 2921.183										
Control file: cf_1234_gmva										
Input file: /Exps/c192a/v1_PV/1234/No0001/oP..12BED8										
Output file: /Exps/c192a/v1_PV/1234/No0001/oP.W.279.12BED8										

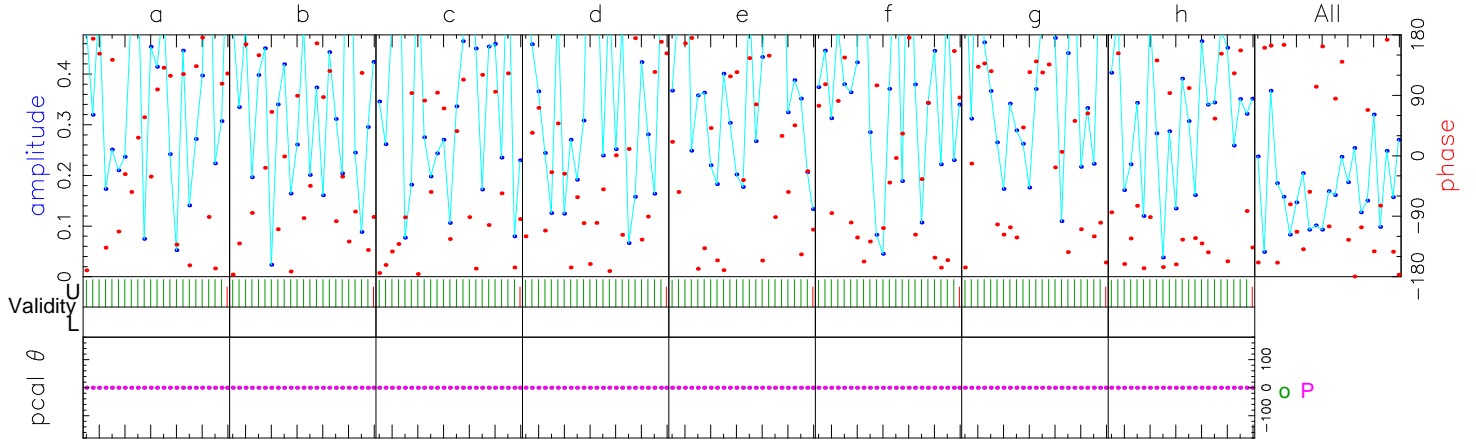
simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, oP
VLBA_OV - PICOVEL, fgroup W, pol LR

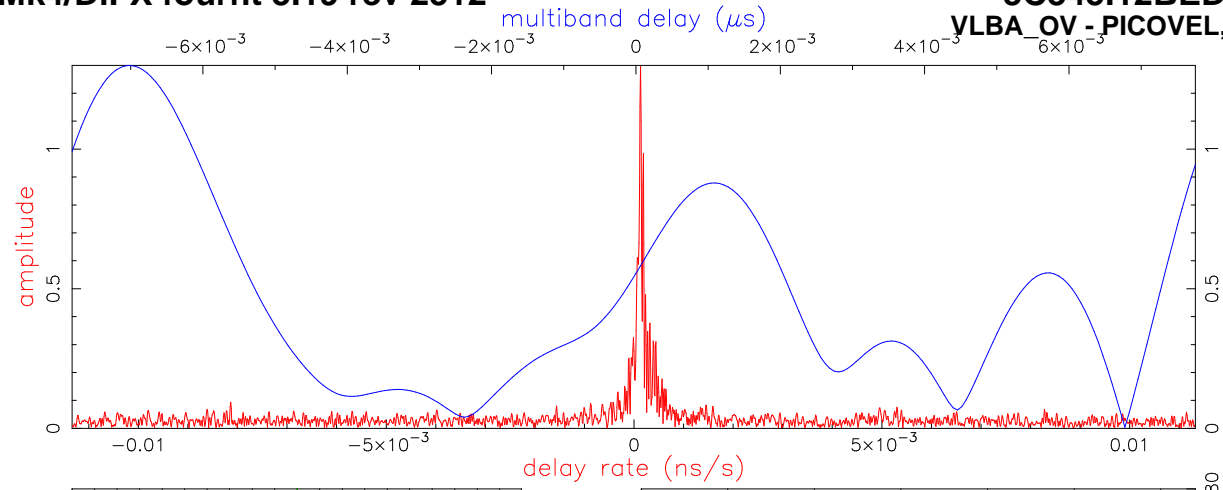


Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
155.1	-133.4	-173.9	-136.5	-178.6	-171.5	171.0	-157.6		Phase	-165.8
0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2		Ampl.	0.2
398.3	83.7	18.7	493.4	393.5	94.7	235.7	275.1		Sbd box	297.8
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0		APs used	
o	1000	1000	1000	1000	1000	1000	1000		PC freqs	
P	1000	1000	1000	1000	1000	1000	1000		PC freqs	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
o	1000	1000	1000	1000	1000	1000	1000		PC amp	
P	1000	1000	1000	1000	1000	1000	1000			
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.92467265763E+03		Apriori delay (usec)	-7.92482774029E+03	Resid mbdelay (usec)	-1.16734E-03	+/-	1.9E-04		
Sband delay (usec)	-7.92466841129E+03		Apriori clock (usec)	1.6719748E-07	Resid sbdelay (usec)	1.59329E-01	+/-	1.5E-03		
Phase delay (usec)	-7.92482774564E+03		Apriori clockrate (us/s)	3.5398100E-07	Resid phdelay (usec)	-5.34796E-06	+/-	6.4E-07		
Delay rate (us/s)	1.49546733819E+00		Apriori rate (us/s)	1.49545762581E+00	Resid rate (us/s)	9.71238E-06	+/-	3.3E-09		
Total phase (deg)		-3.5	Apriori accel (us/s/s)	4.23835004818E-05	Resid phase (deg)	-165.8	+/-	19.8		

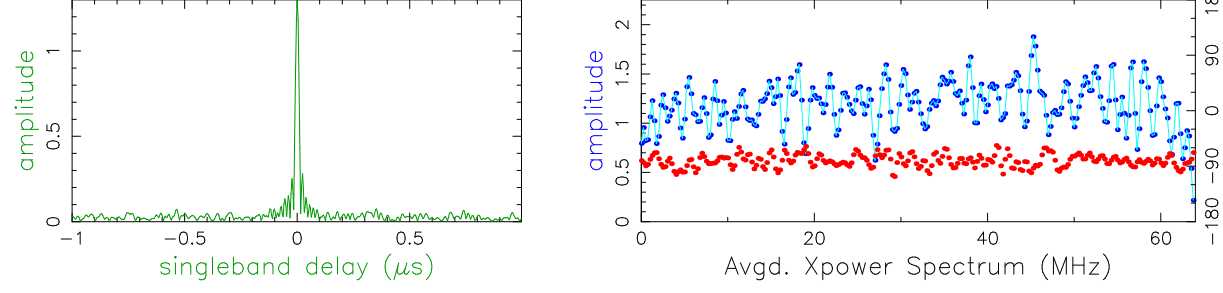
	RMS	Theor.	Amplitude	0.159 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	61.9	47.5	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	86.3	82.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	26.8	28.0	Inc. seg. avg.	0.182	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	20.3	48.9	Inc. frq. avg.	0.154	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
o: az 60.7 el 29.9 pa -64.6			P: az 286.6 el 62.3 pa 84.7		u,v (fr/asec)	-11070.428 2921.183				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c192a/v1_PV/1234/No0001/oP..12BED8		Output file: /Exps/c192a/v1_PV/1234/No0001/oP.W.300.12BED8					



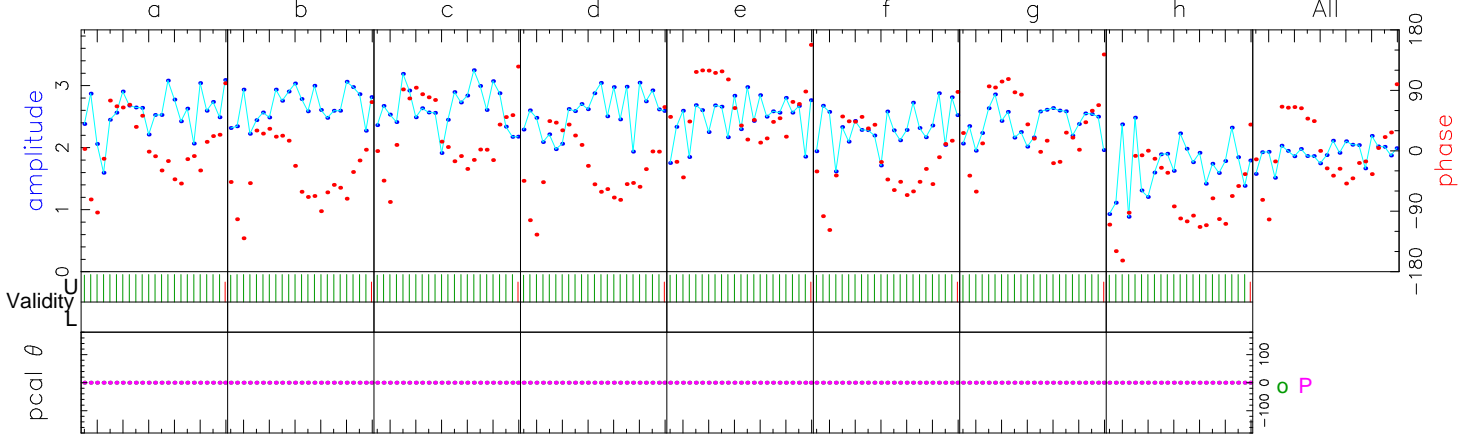
Fringe quality 2

SNR 65.2
Int time 336.738
Amp 1.300
Phase 0.3
PFD 0.0e+00
Delays (us)
SBD 0.000068
MBD -0.007015
Fringe rate (Hz)
0.011286
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"



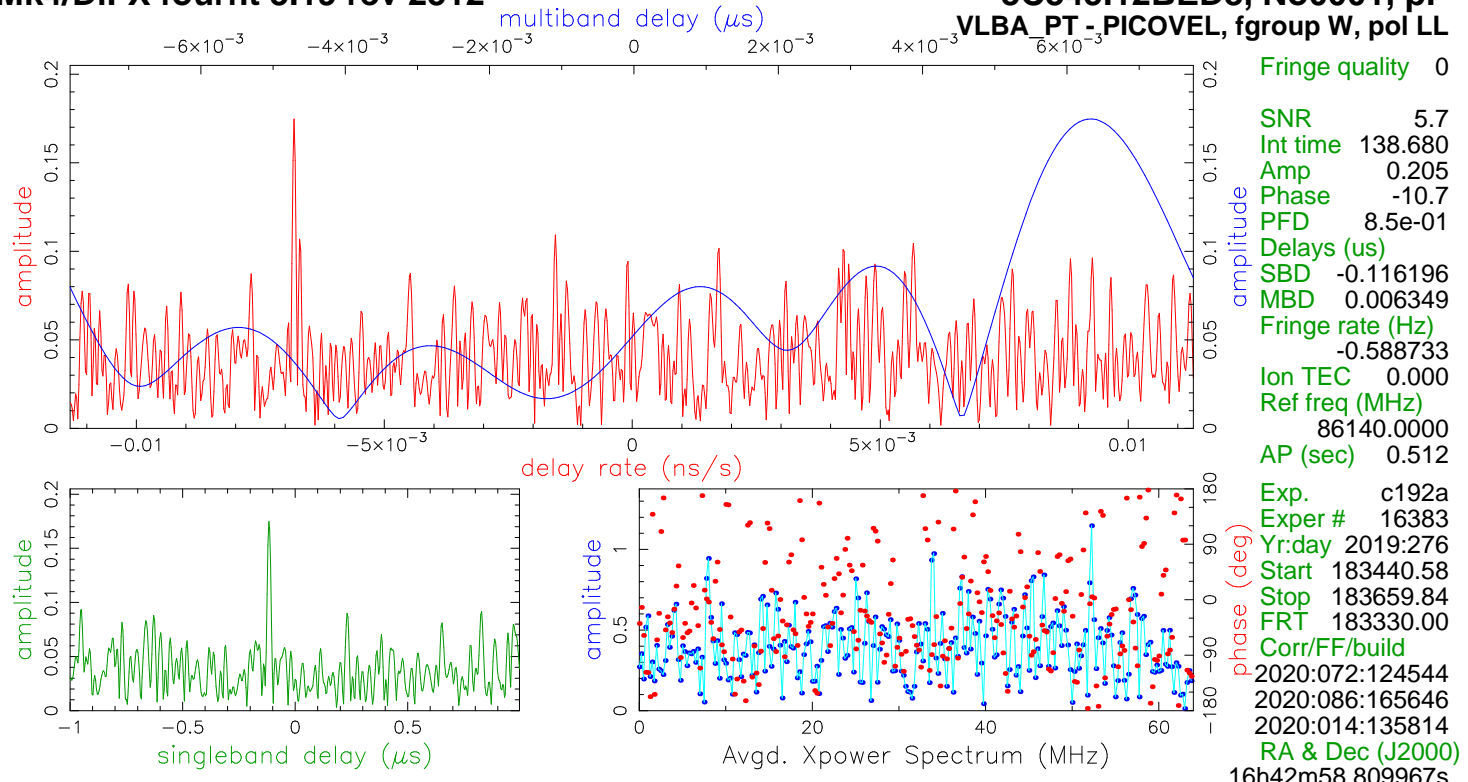
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



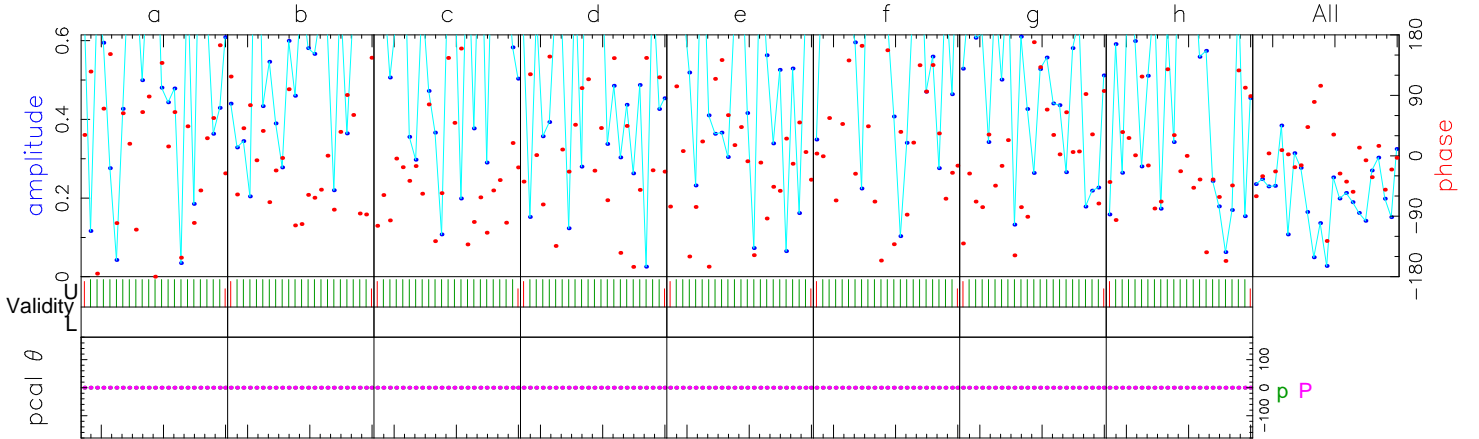
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	6.8	-32.3	22.9	-28.8	60.9	-16.7	38.5	-72.1		0.3
	1.8	1.8	1.8	1.8	1.7	1.5	1.6	1.1	Ampl.	1.6
	256.4	257.0	256.8	256.5	256.2	256.4	256.1	254.9	Sbd box	257.0
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.92483475526E+03	Apriori delay (usec)	-7.92482774029E+03	Resid mbdelay (usec)	-7.01496E-03	+/-	1.7E-05
Sband delay (usec)	-7.92482767254E+03	Apriori clock (usec)	1.6719748E+01	Resid sbdelay (usec)	6.77500E-05	+/-	1.3E-04
Phase delay (usec)	-7.92482774028E+03	Apriori clockrate (us/s)	3.5398100E-07	Resid phdelay (usec)	9.44713E-09	+/-	5.7E-08
Delay rate (us/s)	1.49545775683E+00	Apriori rate (us/s)	1.49545762581E+00	Resid rate (us/s)	1.31016E-07	+/-	2.9E-10
Total phase (deg)	-197.3	Apriori accel (us/s/s)	4.23835004818E-05	Resid phase (deg)	0.3	+/-	1.8

ph/seg (deg)	48.8	RMS	4.2	Theor.	4.2	Amplitude	1.300 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	49.1		7.4	Search (2048X32)	1.272	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	46.8		2.5	Inc. seg. avg.	1.912	Inc. frq. avg.	1.641	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	31.2		4.3	Inc. frq. avg.	1.641			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
o: az 60.7 el 29.9 pa -64.6		P: az 286.6 el 62.3 pa 84.7		u, v (fr/asec)	-11070.428 2921.183			Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



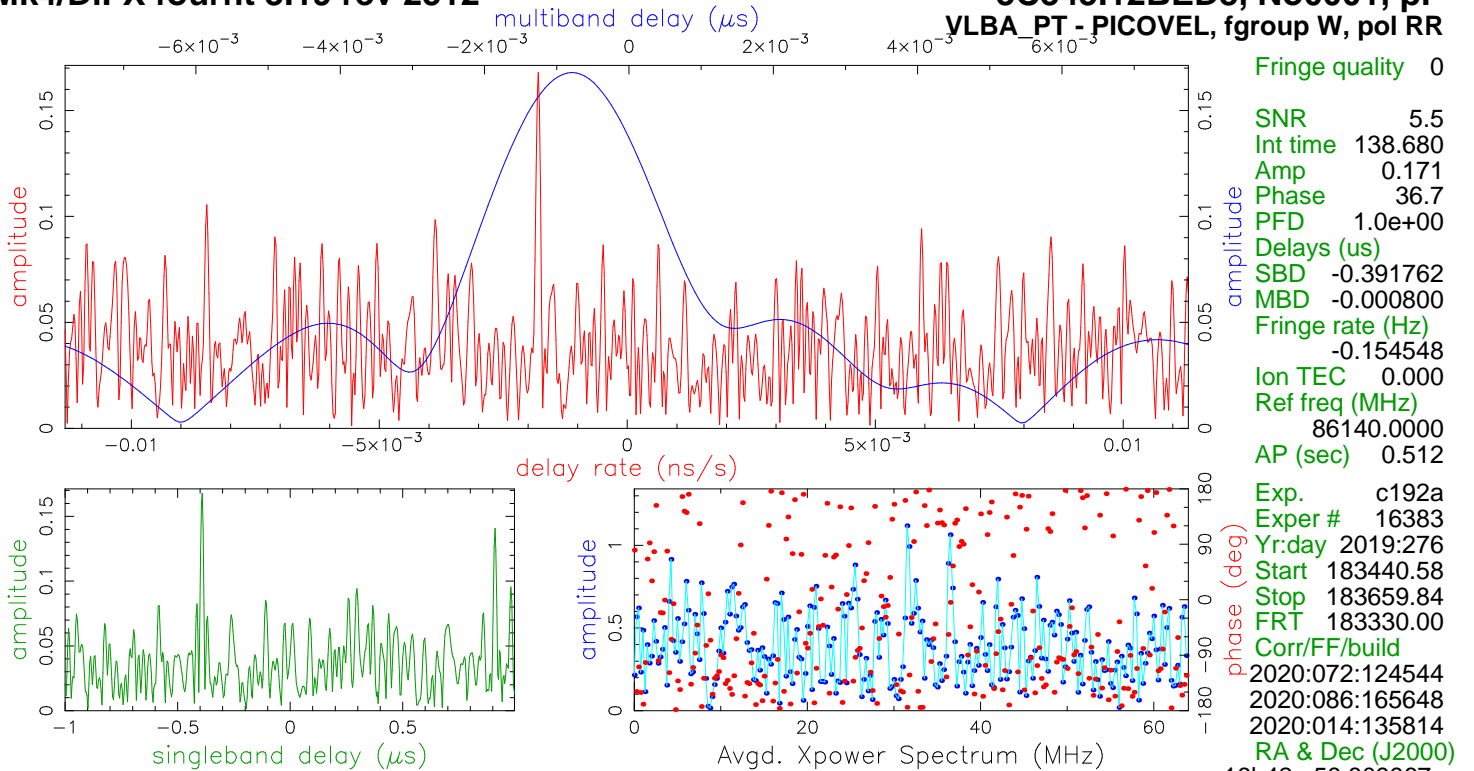
Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
59.0	-25.8	-56.6	17.5	-4.2	21.0	-13.2	-17.4		Phase	-10.7
0.2	0.3	0.4	0.2	0.3	0.2	0.2	0.2		Ampl.	0.2
159.4	54.3	227.7	101.2	391.9	179.0	69.1	104.6		Sbd box	227.3
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0		APs used	
p	1000	1000	1000	1000	1000	1000	1000		PC freqs	
P	1000	1000	1000	1000	1000	1000	1000		PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
p	1000	1000	1000	1000	1000	1000	1000		PC amp	
P	1000	1000	1000	1000	1000	1000	1000			
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	-6.09799203112E+03	Apriori delay (usec)	-6.09787337990E+03	Resid mbdelay (usec)	6.34879E-03	+/-	1.9E-04
Sband delay (usec)	-6.09798957640E+03	Apriori clock (usec)	1.1995872E+01	Resid sbdelay (usec)	-1.16196E-01	+/-	1.5E-03
Phase delay (usec)	-6.09787338025E+03	Apriori clockrate (us/s)	5.5688657E-07	Resid phdelay (usec)	-3.43741E-07	+/-	6.5E-07
Delay rate (us/s)	1.48102981260E+00	Apriori rate (us/s)	1.48103664721E+00	Resid rate (us/s)	-6.83461E-06	+/-	8.1E-09
Total phase (deg)		Apriori accel (us/s/s)	2.96565955314E-05	Resid phase (deg)	-10.7	+/-	20.3

ph/seg (deg)	RMS 46.7	Theor. 48.6	Amplitude Search (1024X32)	0.171	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	51.1	84.8	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)	38.9	28.6	Inc. seg. avg.	0.178	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	36.4	50.0	Inc. frq. avg.	0.214	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		P: az 286.6 el 62.3 pa 84.7		u, v (fr/asec)	-10985.437 1805.987				simultaneous interpolator



Fringe quality 0

SNR 5.5

Int time 138.680

Amp 0.171

Phase 36.7

PFD 1.0e+00

Delays (us)

SBD -0.391762

MBD -0.000800

Fringe rate (Hz)

-0.154548

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

2020:086:165648

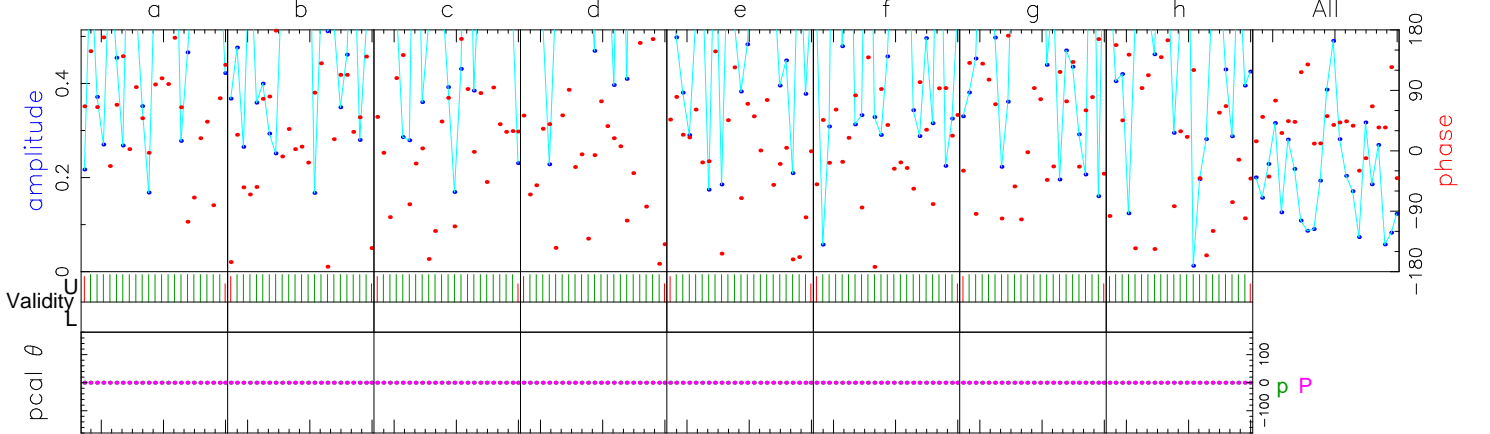
2020:014:135814

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	71.3	27.3	31.3	-2.7	36.4	28.6	59.8	92.6	Phase	36.7
p	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.0	Ampl.	0.2
P	267.8	158.9	154.9	78.1	442.3	157.2	369.4	104.1	Sbd box	156.7
p:P	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
p:P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.09826480480E+03		Apriori delay (usec)		-6.09787337990E+03		Resid mbdelay (usec)		-7.99898E-04	+/- 2.0E-04
Sband delay (usec)	-6.09826514140E+03		Apriori clock (usec)		1.1995872E+01		Resid sbdelay (usec)		-3.91762E-01	+/- 1.6E-03
Phase delay (usec)	-6.09787337872E+03		Apriori clockrate (us/s)		5.5688657E-07		Resid phdelay (usec)		1.18324E-06	+/- 6.8E-07
Delay rate (us/s)	1.48103485305E+00		Apriori rate (us/s)		1.48103664721E+00		Resid rate (us/s)		-1.79415E-06	+/- 8.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.96565955314E-05		Resid phase (deg)		36.7	+/- 21.0

ph/seg (deg) 44.0 50.3 Search (1024X32) 0.167 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

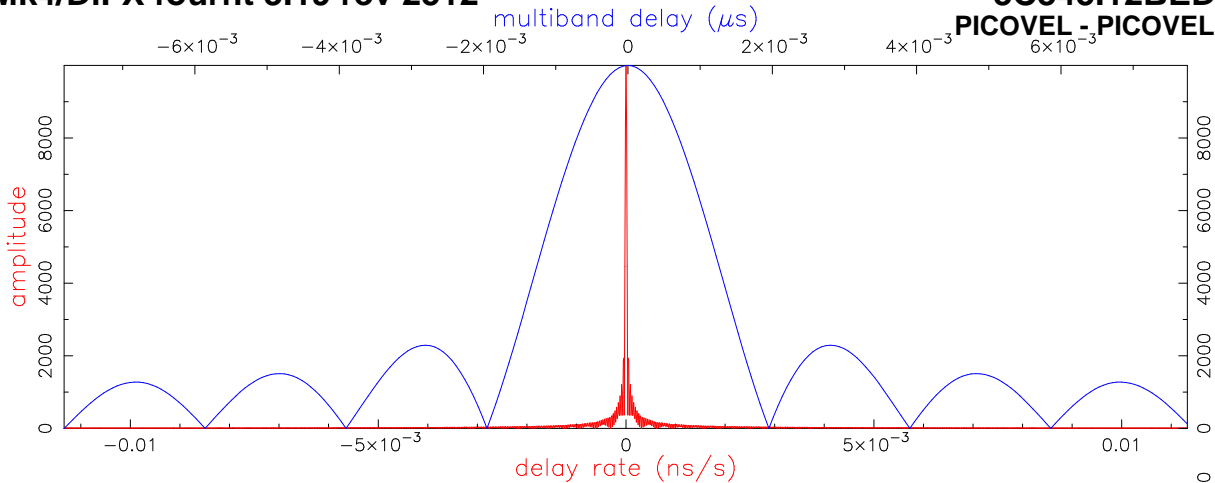
amp/seg (%) 66.4 87.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 33.1 29.7 Inc. seg. avg. 0.148 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 37.9 51.8 Inc. frq. avg. 0.162 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 62.4 el 35.8 pa -72.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10985.437 1805.987 ion window (TEC) 0.00 0.00

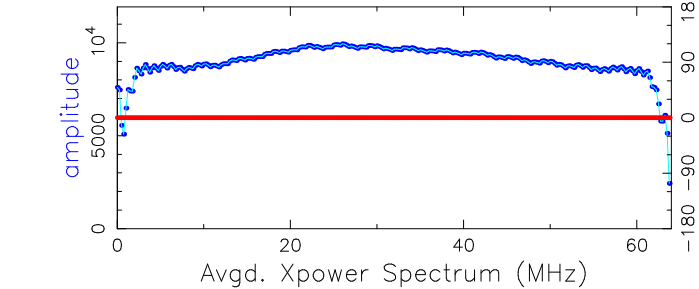
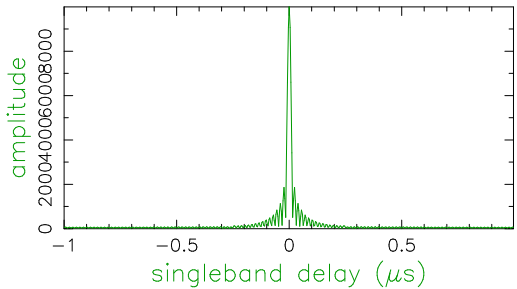
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/pP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/pP.W.272.12BED8 simultaneous interpolator



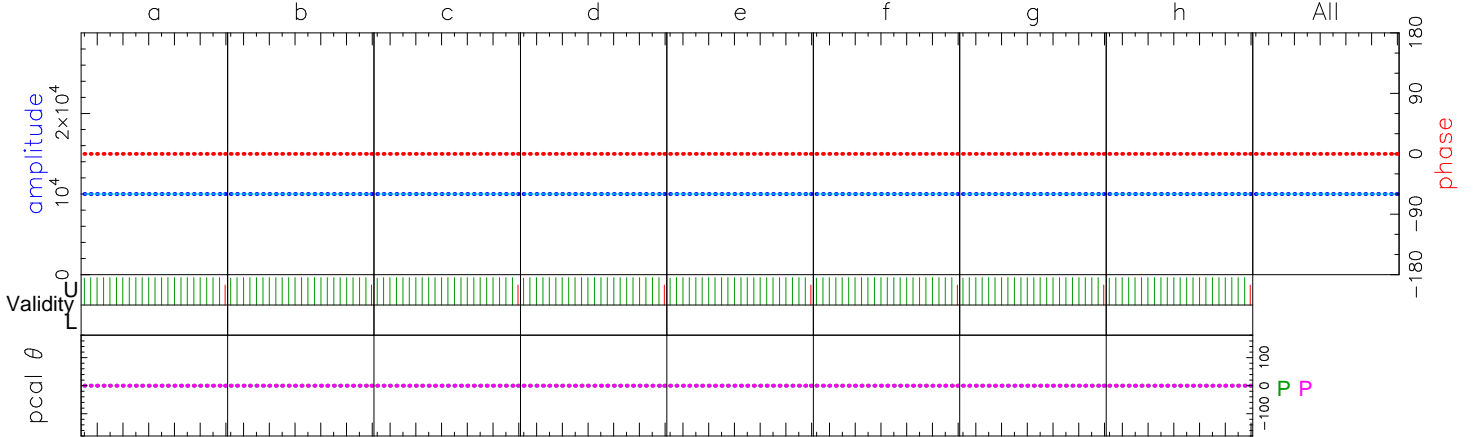
Fringe quality 9

SNR 501804.1
Int time 336.738
Amp 9999.779
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
Start 2019:276
Stop 2019:276
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165648
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

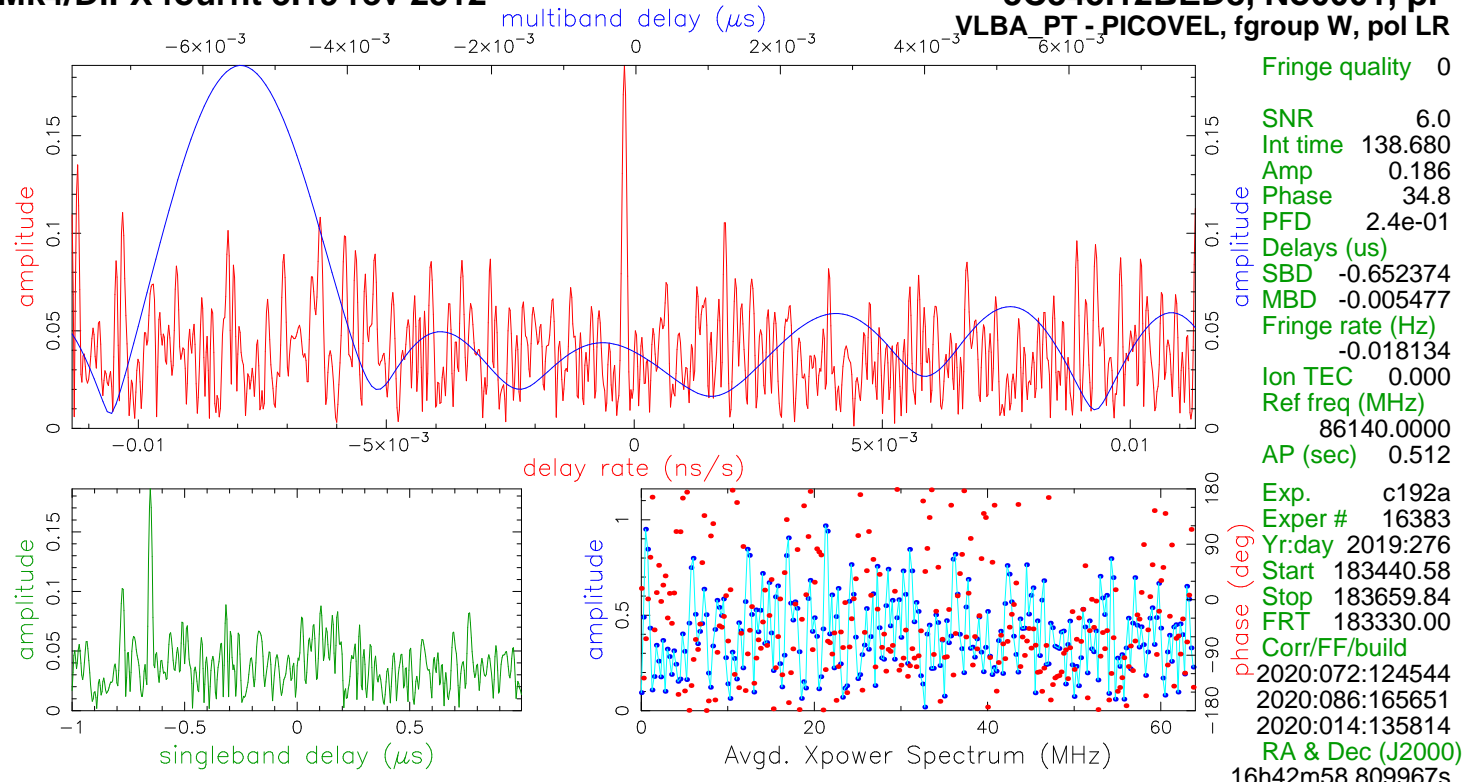


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
P	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	9999.8
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.2E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08
 Phase delay (usec) -6.42375716793E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -6.42376E-20 +/- 7.4E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.8E-14
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 9999.779 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.779 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.779 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

P: az 286.6 el 62.3 pa 84.7 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PP.W.273.12BED8



Fringe quality 0

SNR 6.0

Int time 138.680

Amp 0.186

Phase 34.8

PFD 2.4e-01

Delays (us)

SBD -0.652374

MBD -0.005477

Fringe rate (Hz)

-0.018134

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

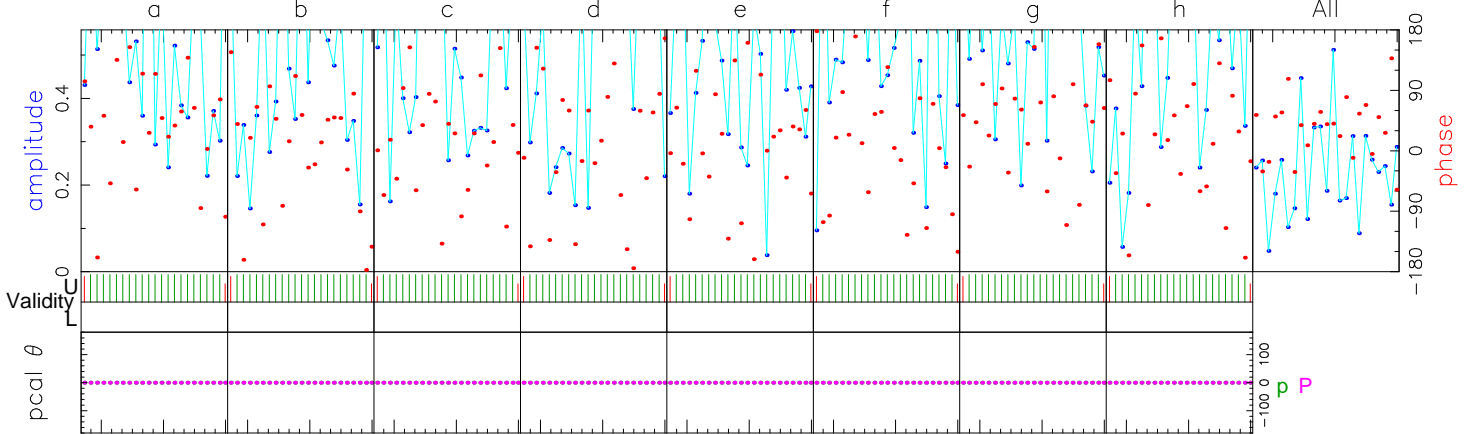
2020:014:135814

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
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	1000	1000	1000	1000	1000	1000	1000	1000		
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.09851948176E+03									
Sband delay (usec)	-6.09852575415E+03									
Phase delay (usec)	-6.09787337878E+03									
Delay rate (us/s)	1.481036643669E+00									
Total phase (deg)			-305.4							
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)									34.8	+/- 19.1
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Search (1024X32)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 43.6 45.9

amp/seg (%) 64.3 80.1

ph/frq (deg) 17.6 27.0

amp/frq (%) 32.8 47.2

p: az 62.4 el 35.8 pa -72.8

P: az 286.6 el 62.3 pa 84.7

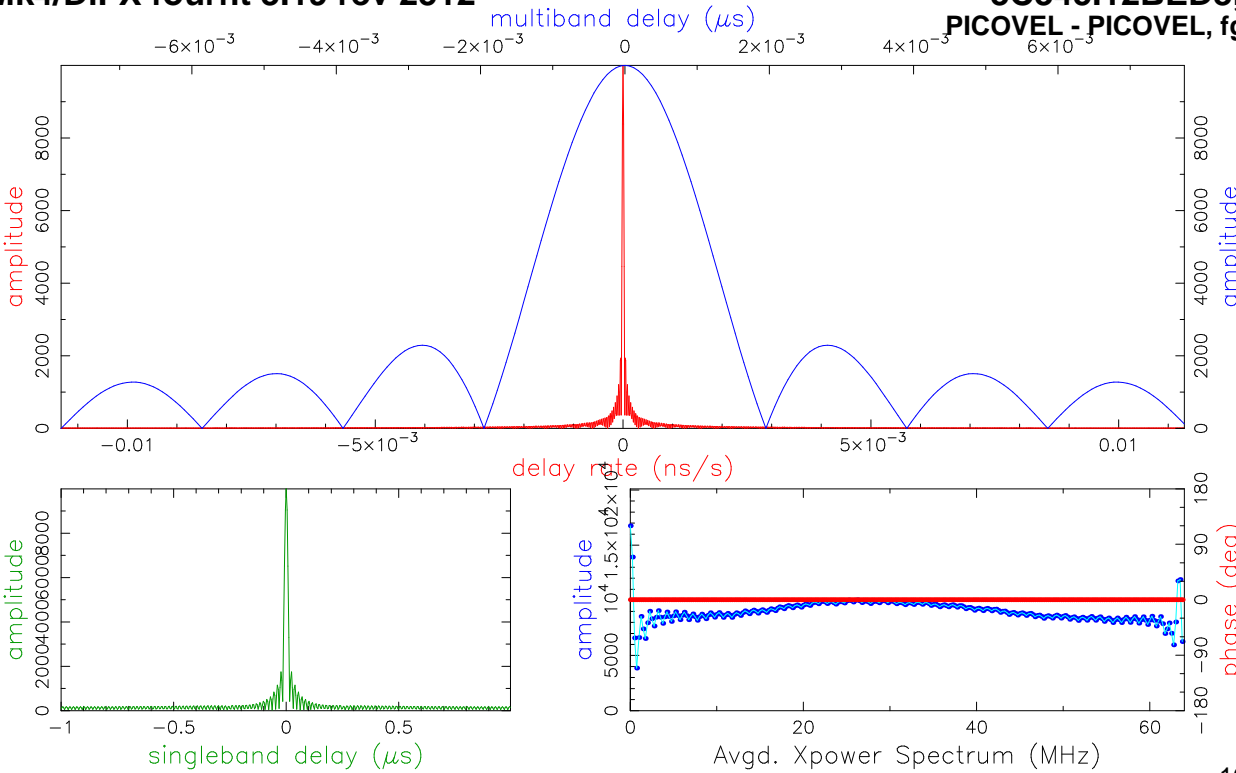
u,v (fr/asec) -10985.437 1805.987

simultaneous interpolator

Control file: cf_1234_gmva

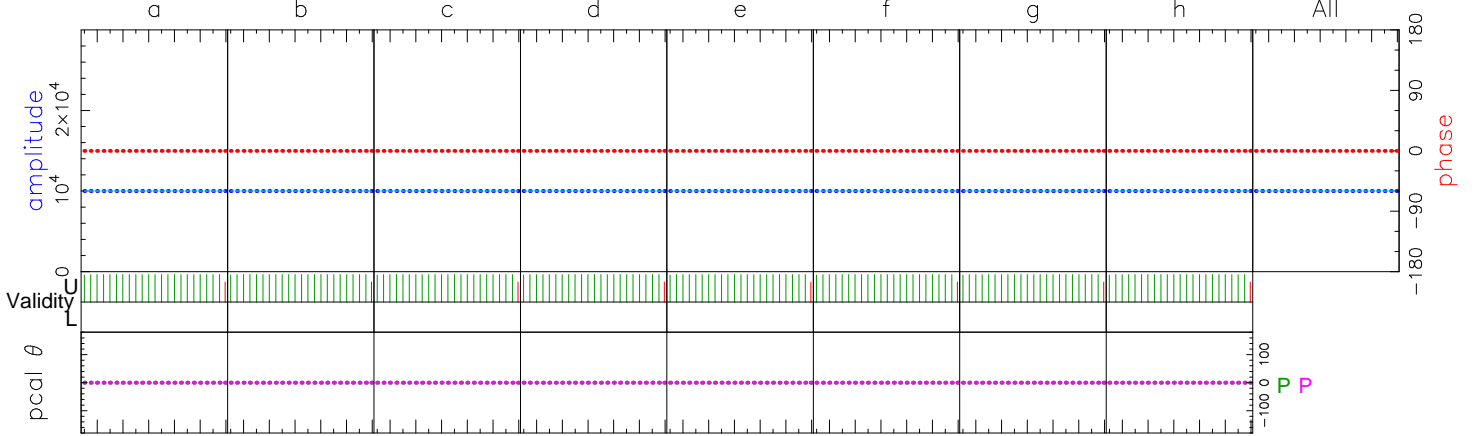
Input file: /Exps/c192a/v1_PV/1234/No0001/pP..12BED8

Output file: /Exps/c192a/v1_PV/1234/No0001/pP.W.288.12BED8



Fringe quality 9
 SNR 501804.1
 Int time 336.738
 Amp 9999.779
 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 183122.43
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165652
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

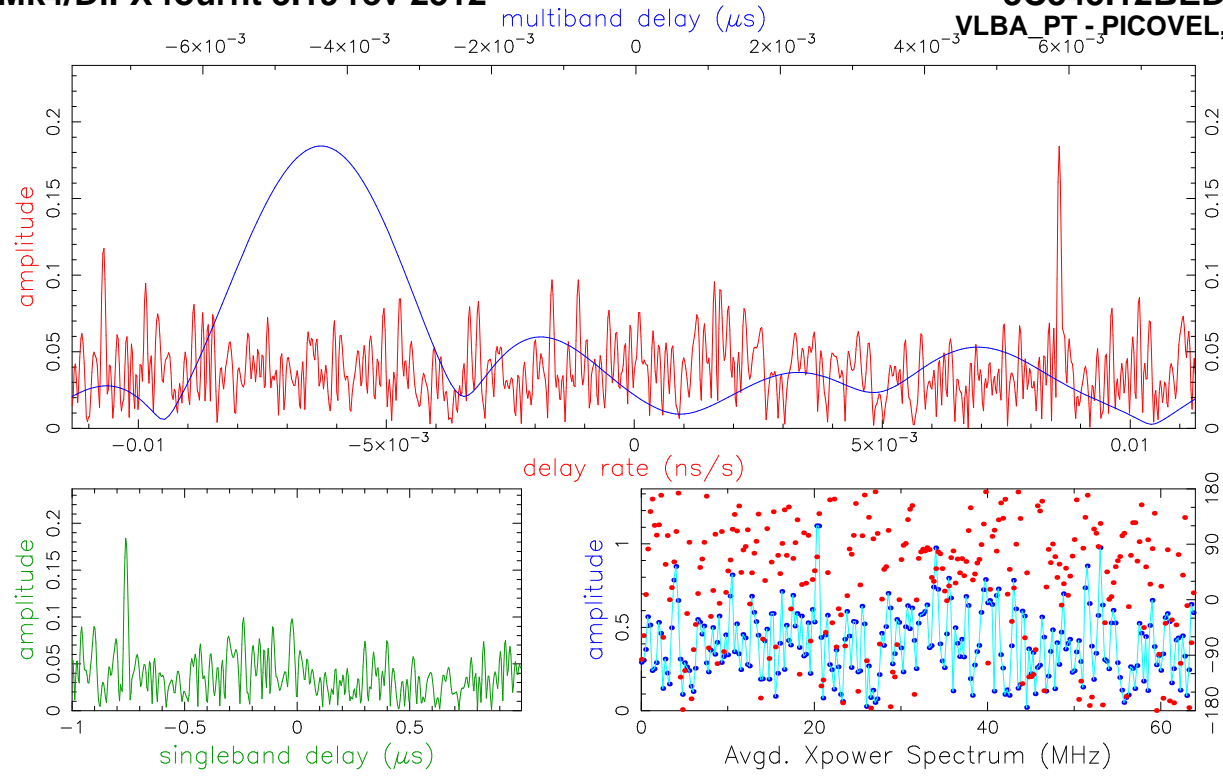
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-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.	9999.8
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
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	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.2E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	1.09195876769E-19	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.09196E-19	+/-	7.4E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.8E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

RMS Theor. Amplitude 9999.779 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.779 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.779 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 P: az 286.6 el 62.3 pa 84.7 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PP.W.294.12BED8

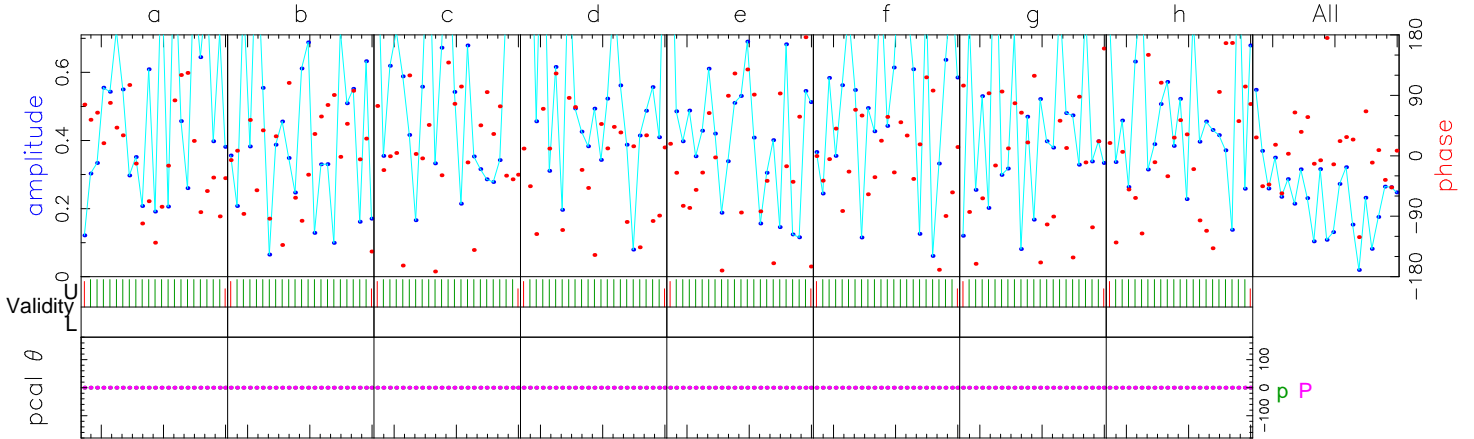


Fringe quality 0

SNR 6.0
Int time 138.680
Amp 0.237
Phase 5.6
PFD 2.9e-01
Delays (us)
SBD -0.760818
MBD -0.004312
Fringe rate (Hz) 0.739598
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
2020:086:165652
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



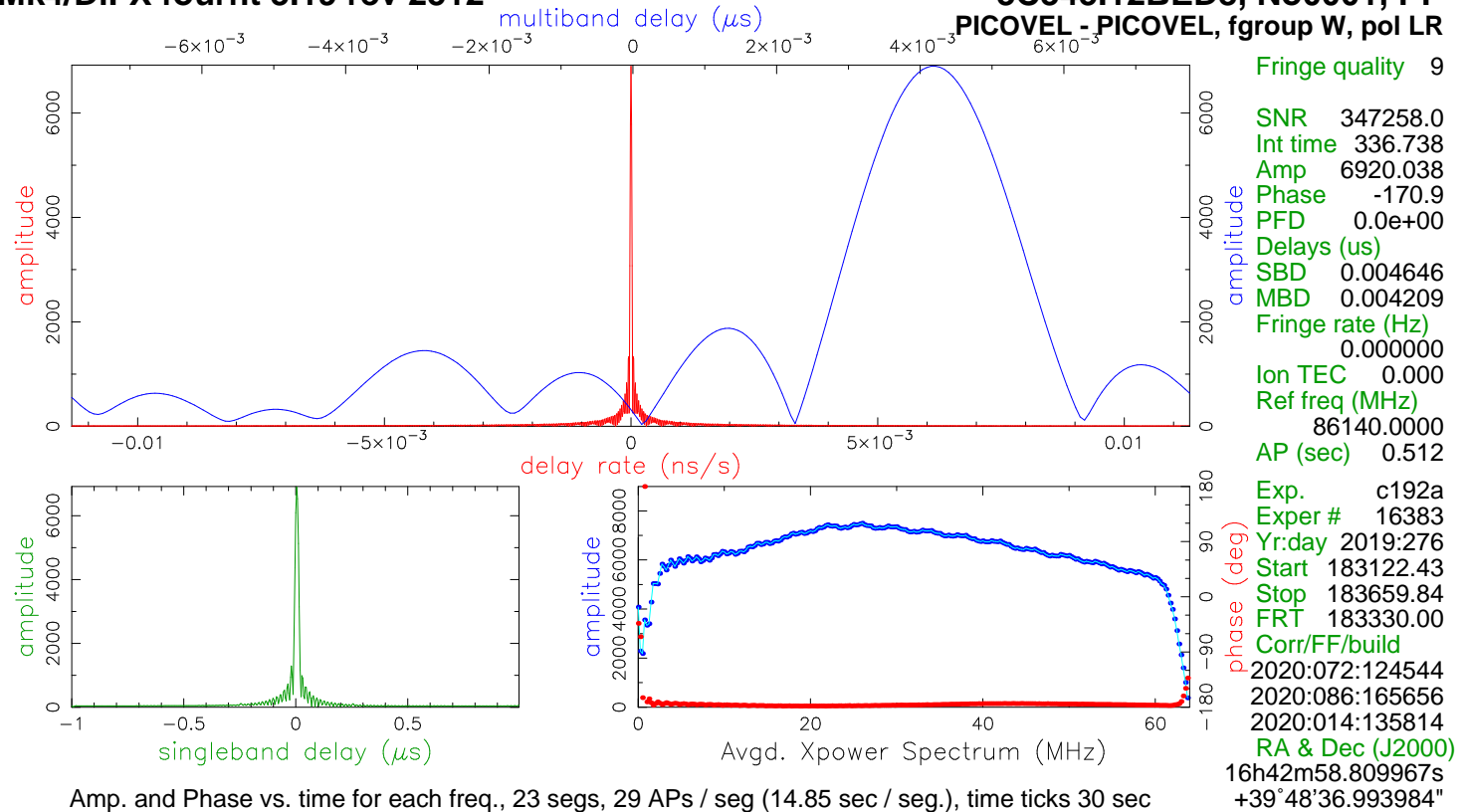
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	489.0	333.1	67.0	234.1	168.8	62.1	26.3	314.9	Sbd box	62.2
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.09862769166E+03	Apriori delay (usec)	-6.09787337990E+03	Resid mbdelay (usec)	-4.31176E-03	+/-	1.8E-04
Sband delay (usec)	-6.09863419765E+03	Apriori clock (usec)	1.1995872E+01	Resid sbdelay (usec)	-7.60818E-01	+/-	1.4E-03
Phase delay (usec)	-6.09787337972E+03	Apriori clockrate (us/s)	5.5688657E-07	Resid phdelay (usec)	1.80495E-07	+/-	6.2E-07
Delay rate (us/s)	1.48104523320E+00	Apriori rate (us/s)	1.48103664721E+00	Resid rate (us/s)	8.58599E-06	+/-	7.7E-09
Total phase (deg)	-334.6	Apriori accel (us/s/s)	2.96565955314E-05	Resid phase (deg)	5.6	+/-	19.3

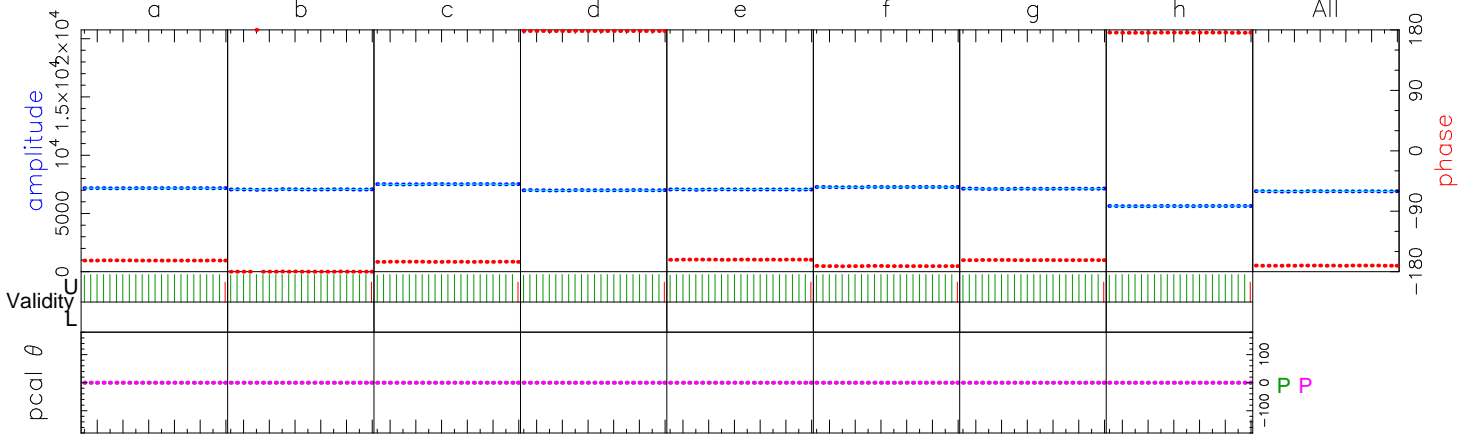
ph/seg (deg)	56.2	Theor.	46.2	Amplitude	0.237 +/- 0.040	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	66.2	Search (1024X32)	0.180	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	11.1	Inc. seg. avg.	0.230	Inc. seg. avg.	0.230	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	36.0	Inc. frq. avg.	0.215	Inc. frq. avg.	0.215	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

p: az 62.4 el 35.8 pa -72.8 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10985.437 1805.987 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/pP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/pP.W.295.12BED8



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



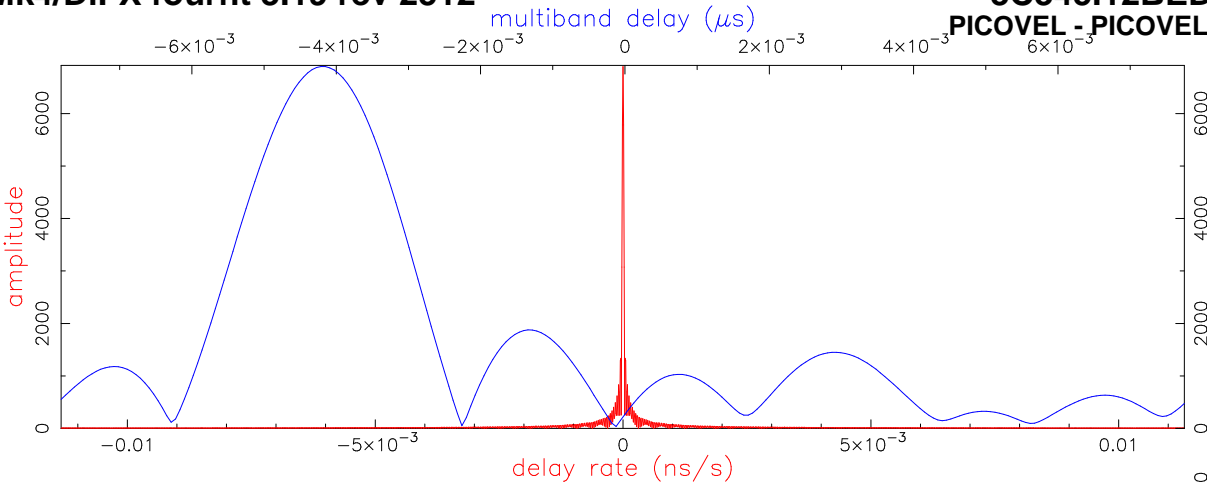
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Phase	-163.2	-179.8	-165.1	178.2	-162.0	-171.5	-162.6	175.7	-170.9	-170.9
Ampl.	7171.1	7061.7	7511.8	6995.4	7056.6	7265.8	7118.6	5635.8	6976.9	6976.9
Sbd box	258.3	257.9	258.1	258.0	258.2	258.0	257.8	257.2	258.2	258.2
APs used	U/L 659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
PC freqs	P 1000	1000	1000	1000	1000	1000	1000	1000		
PC freqs	P 1000	1000	1000	1000	1000	1000	1000	1000		
PC phase	P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Mani PC	P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
PC amp	P 1000	1000	1000	1000	1000	1000	1000	1000		
	P 1000	1000	1000	1000	1000	1000	1000	1000		
Chan ids	P W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Tracks										
Chan ids	P W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Tracks										

Group delay (usec)(sbd)	4.20934375000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	4.20934E-03	+/-	3.1E-09
Sband delay (usec)	4.64625000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	4.64625E-03	+/-	2.5E-08
Phase delay (usec)	-5.51013504509E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.51014E-06	+/-	1.1E-11
Delay rate (us/s)	2.83423047834E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.83423E-12	+/-	5.5E-14
Total phase (deg)	-170.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-170.9	+/-	0.0

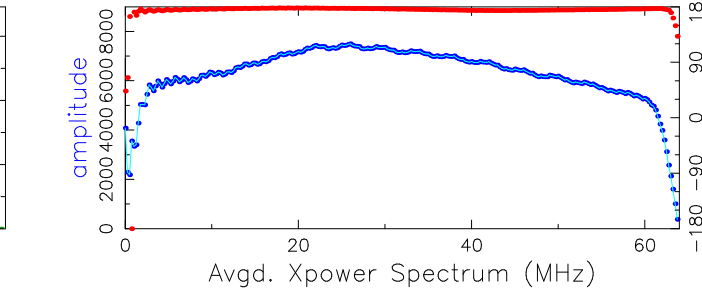
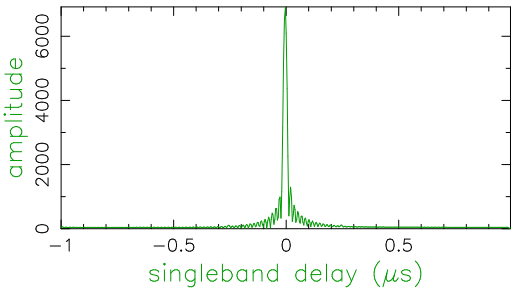
ph/seg (deg)	0.0	0.0	Search (2048X32)	6778.589	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	0.3	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	10.2	0.0	Inc. seg. avg.	6898.691	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	7.7	0.0	Inc. frq. avg.	6976.937	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

P: az 286.6 el 62.3 pa 84.7 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PP.W.309.12BED8

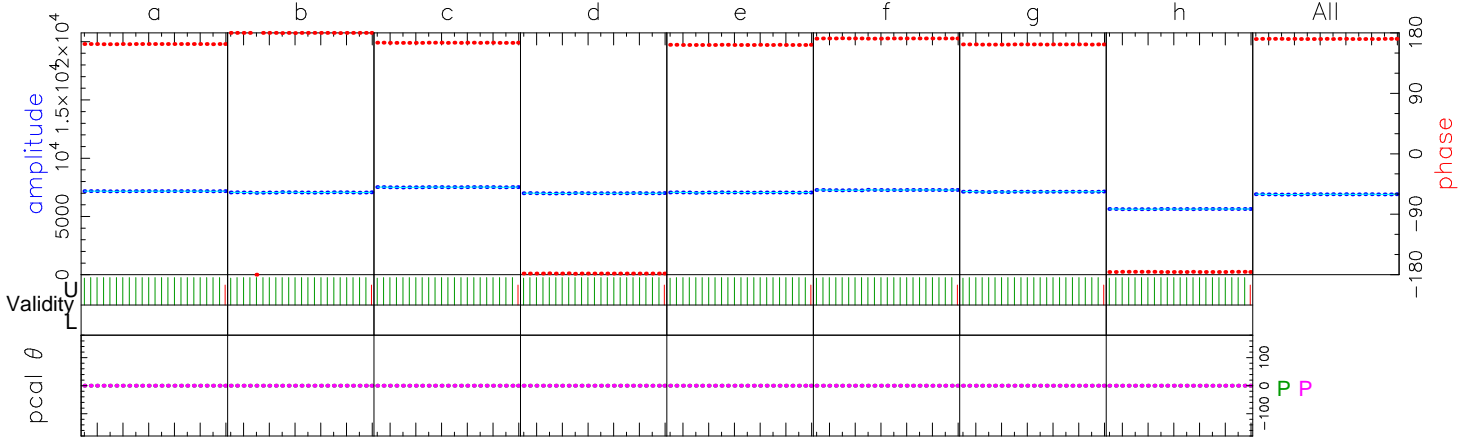


Fringe quality 9
SNR 347258.0
Int time 336.738
Amp 6920.038
Phase 170.9
PFD 0.0e+00
Delays (us)
SBD -0.004646
MBD -0.004209
Fringe rate (Hz)
-0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165700
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



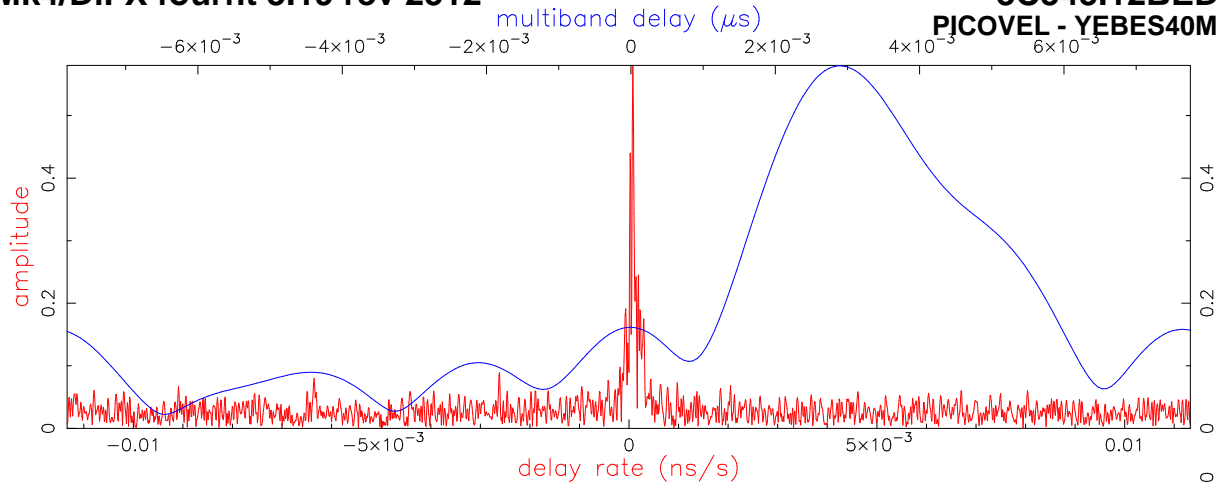
Avgd. Xpower Spectrum (MHz)

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



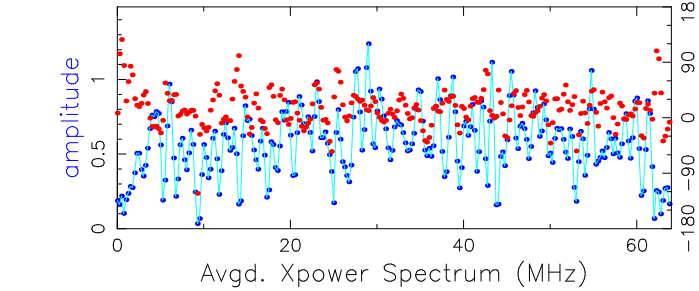
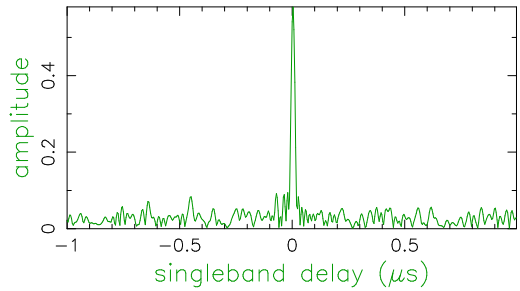
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-4.20934375000E-03			0.00000000000E+00				Resid mbdelay (usec)	-4.20934E-03 +/- 3.1E-09
Sband delay (usec)		-4.64625000000E-03			0.0000000E+00				Resid sbdelay (usec)	-4.64625E-03 +/- 2.5E-08
Phase delay (usec)		5.51013504505E-06			0.0000000E+00				Resid phdelay (usec)	5.51014E-06 +/- 1.1E-11
Delay rate (us/s)		-2.83423047834E-12			0.00000000000E+00				Resid rate (us/s)	-2.83423E-12 +/- 5.5E-14
Total phase (deg)			170.9		0.00000000000E+00				Resid phase (deg)	170.9 +/- 0.0

RMS Theor. Amplitude 6920.039 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 6778.589 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 10.2 0.0 Inc. seg. avg. 6898.691 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 7.7 0.0 Inc. frq. avg. 6976.937 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 P: az 286.6 el 62.3 pa 84.7 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/PP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/PP.W.329.12BED8



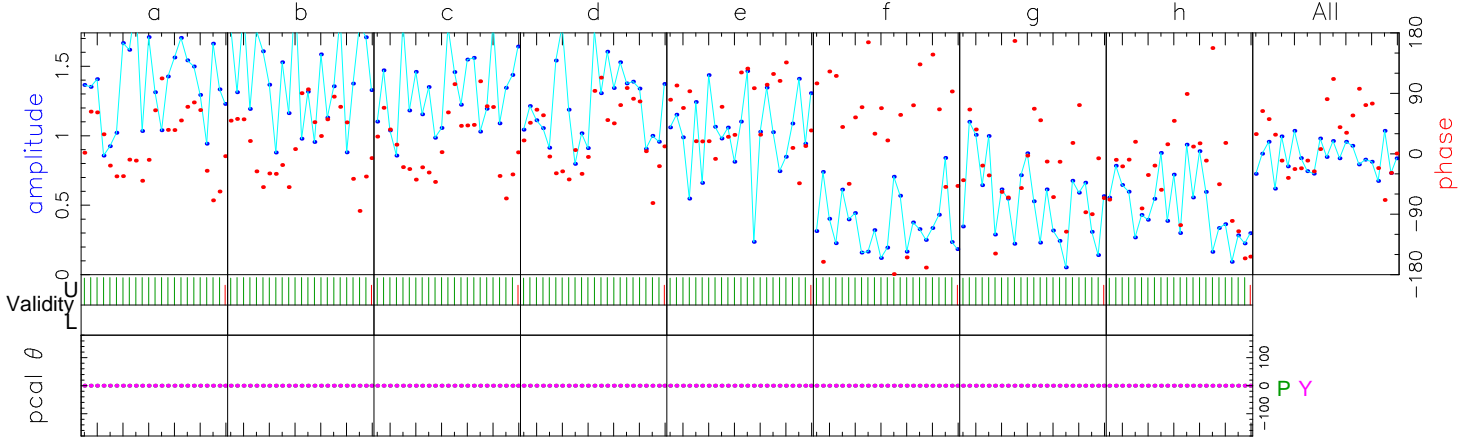
Fringe quality 3

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

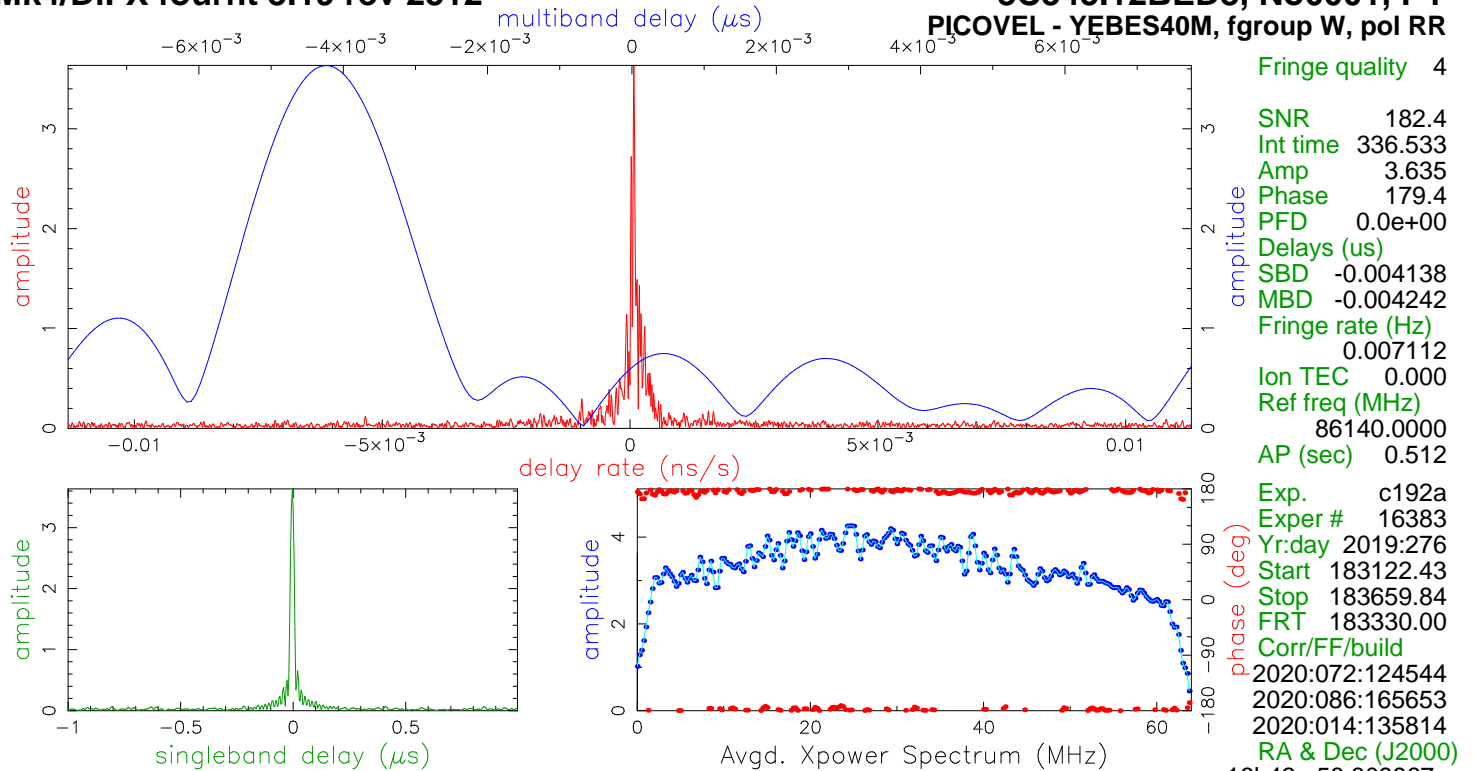


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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		

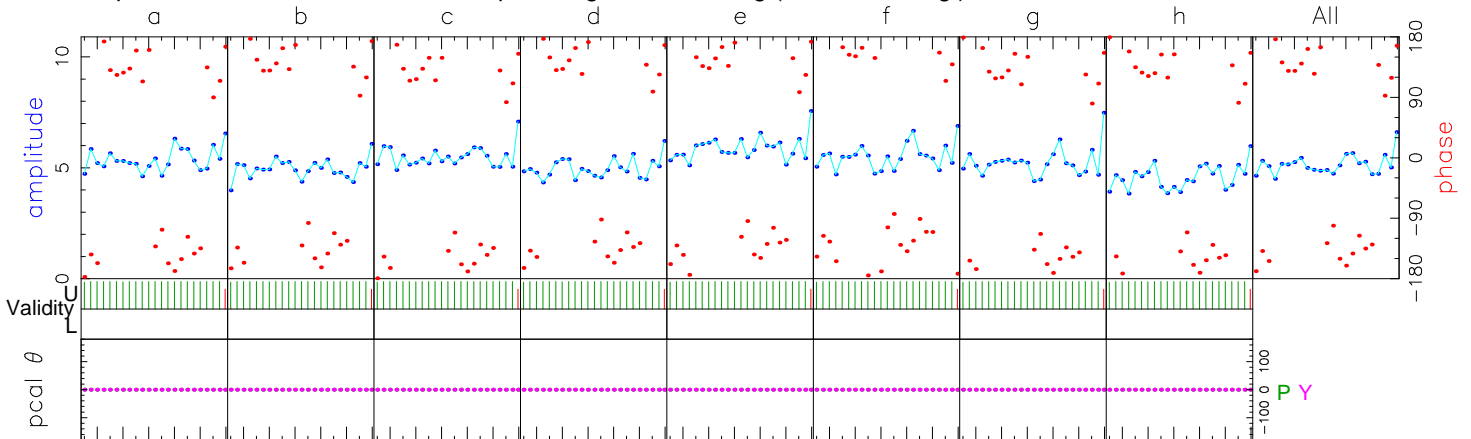
Group delay (usec)(sbd)	-1.05993512847E+02	Apriori delay (usec)	-1.05996398026E+02	Resid mbdelay (usec)	2.88518E-03	+/-	3.7E-05
Sband delay (usec)	-1.05992922776E+02	Apriori clock (usec)	-9.7419491E+00	Resid sbdelay (usec)	3.47525E-03	+/-	3.0E-04
Phase delay (usec)	-1.05996397327E+02	Apriori clockrate (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										

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

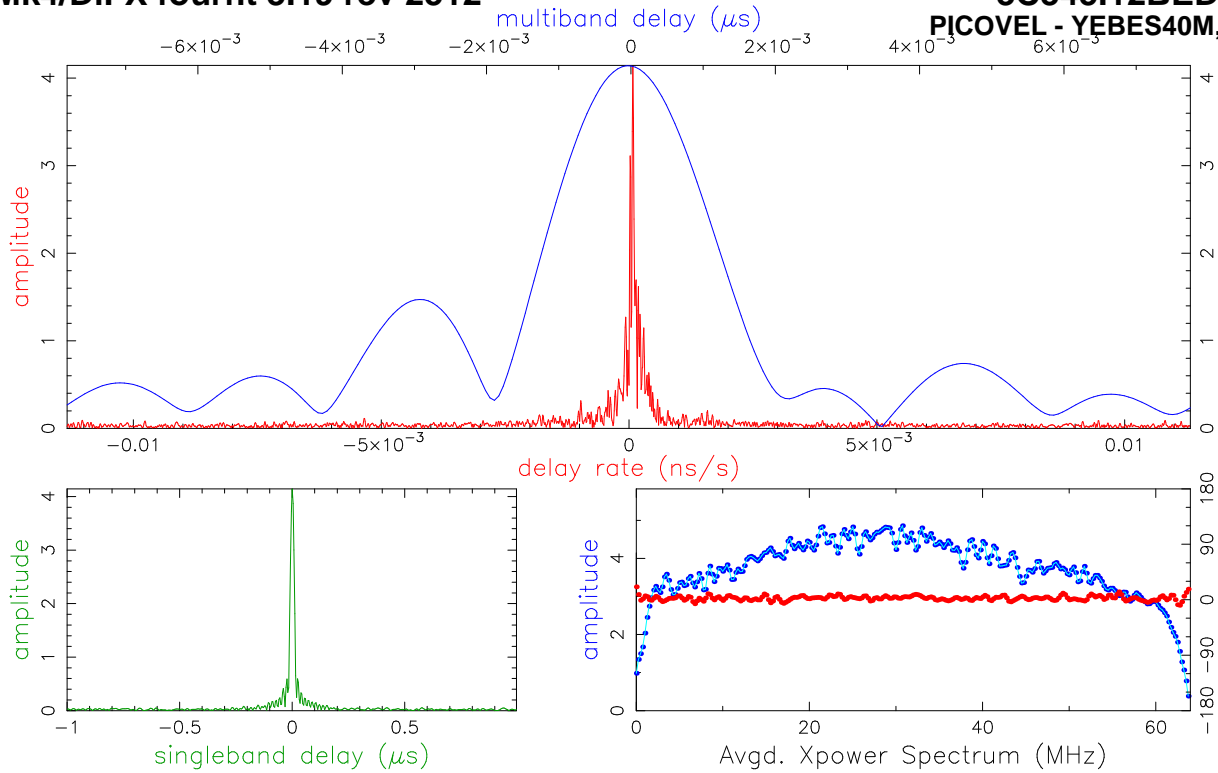


Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



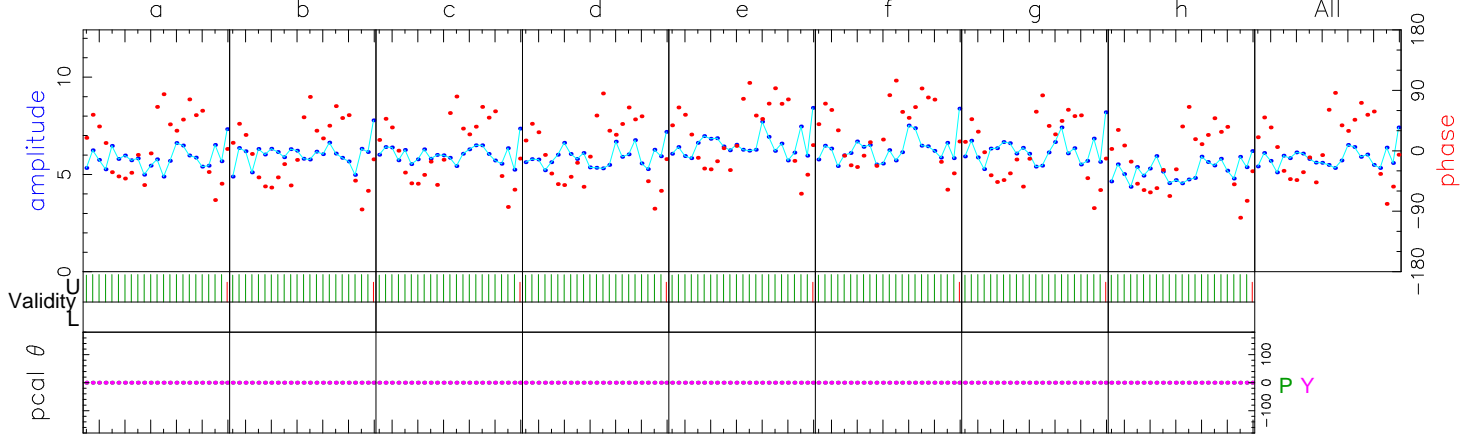
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	174.3	-179.5	170.0	-177.8	-172.6	-156.9	167.2	168.5	Phase	179.4
	3.8	3.5	3.9	3.5	4.1	3.9	3.7	3.3	Ampl.	3.7
	256.2	255.9	256.1	256.2	256.0	255.8	255.8	256.0	Sbd box	255.9
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	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	PC amp	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	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



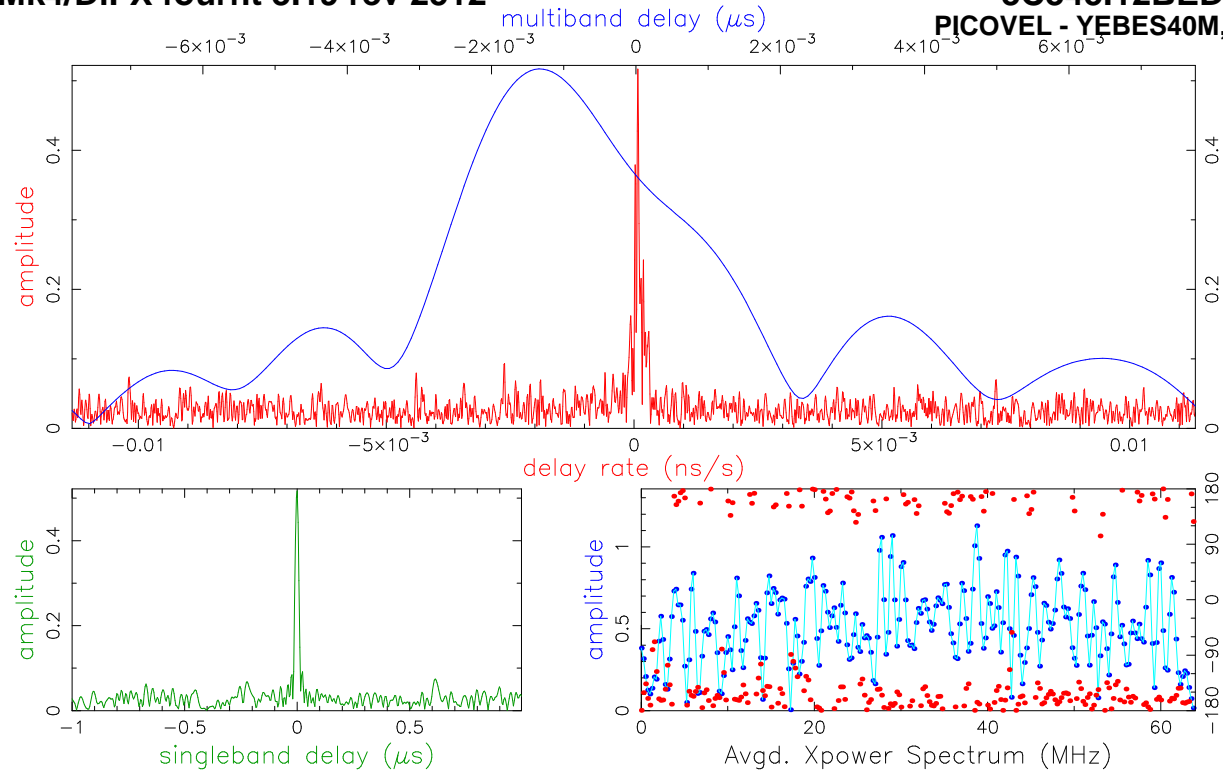
Fringe quality 4
 SNR 208.0
 Int time 336.533
 Amp 4.146
 Phase 7.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.000422
 MBD -0.000027
 Fringe rate (Hz) 0.007111
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183122.43
 Stop 183659.84
 FRT 183330.00
 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	APs used	
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)	-1.05996424878E+02									
Sband delay (usec)	-1.05995975776E+02									
Phase delay (usec)	-1.05996397779E+02									
Delay rate (us/s)	-2.28605237413E-02									
Total phase (deg)			-253.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

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.314.12BED8

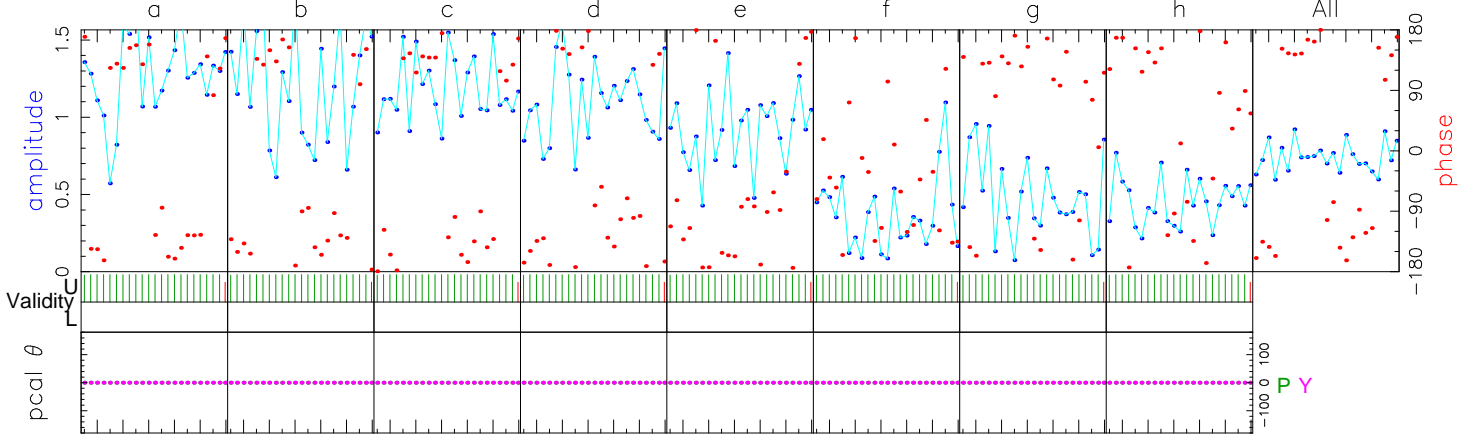


Fringe quality 5

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



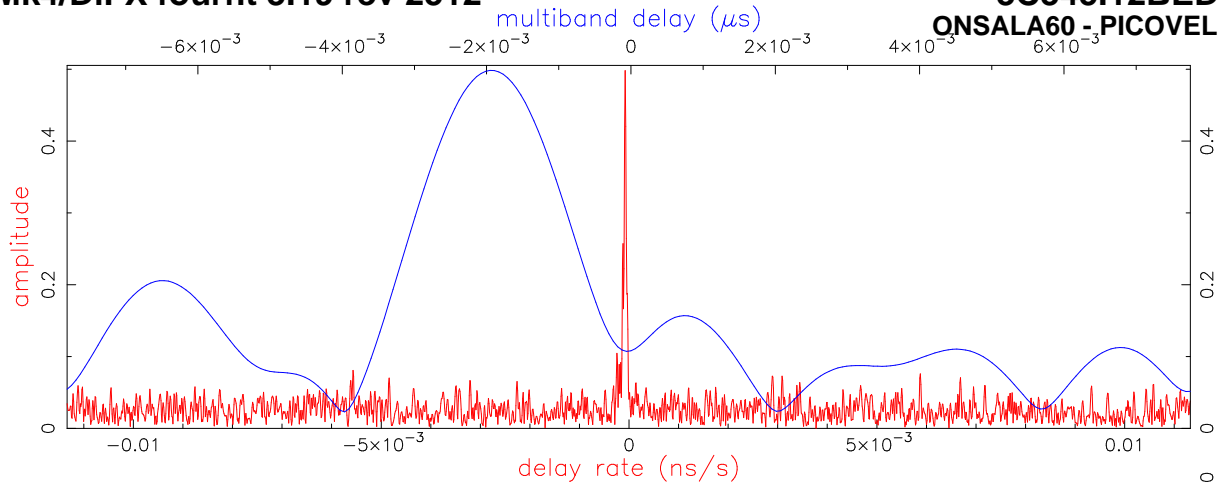
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.9	-170.8	-179.0	-151.3	-137.0	-86.6	154.2	153.3	Phase	-169.3
	0.9	0.8	0.8	0.7	0.6	0.1	0.3	0.2	Ampl.	0.6
	257.0	256.9	256.6	257.1	256.7	17.9	257.0	255.5	Sbd box	256.7
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	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	PC amp	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.05997748003E+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	RMS	10.5	Theor.	10.5	Amplitude	0.522 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	45.8	Search (2048X32)	0.505	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	Inc. seg. avg.	0.730	Inc. frq. avg.	0.559	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	55.1	Inc. frq. avg.	0.559	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite
								ion window (TEC)	0.00	0.00	

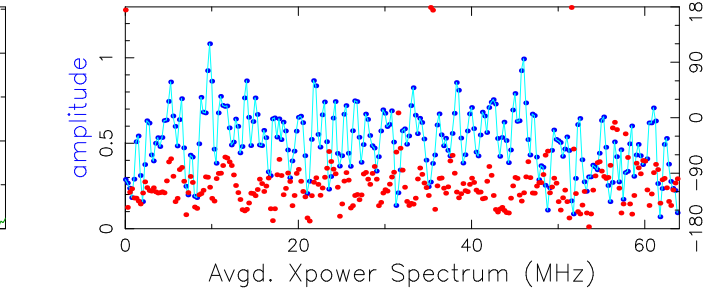
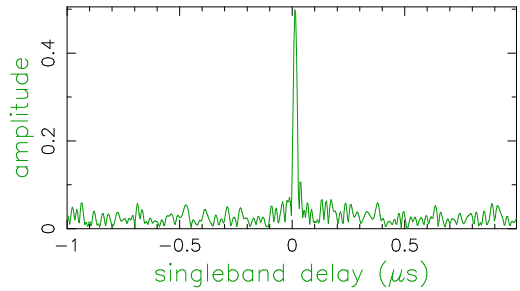
P: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) 164.667 -508.882 simultaneous interpolator

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



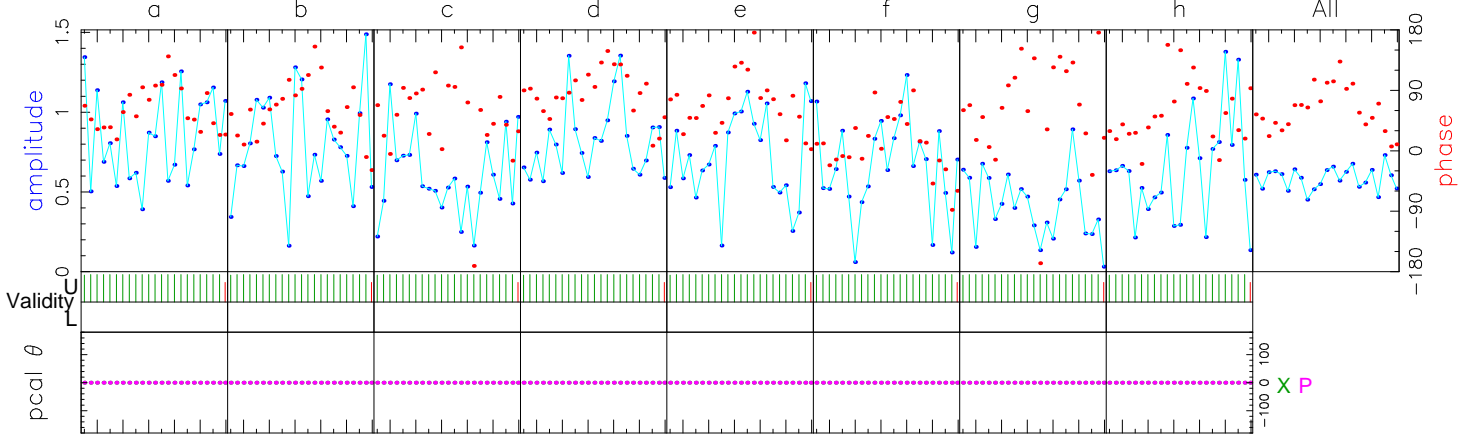
Fringe quality 7

SNR 25.4
Int time 336.556
Amp 0.505
Phase 61.2
PFD 0.0e+00
Delays (us)
SBD 0.013285
MBD -0.001885
Fringe rate (Hz)
-0.007127
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

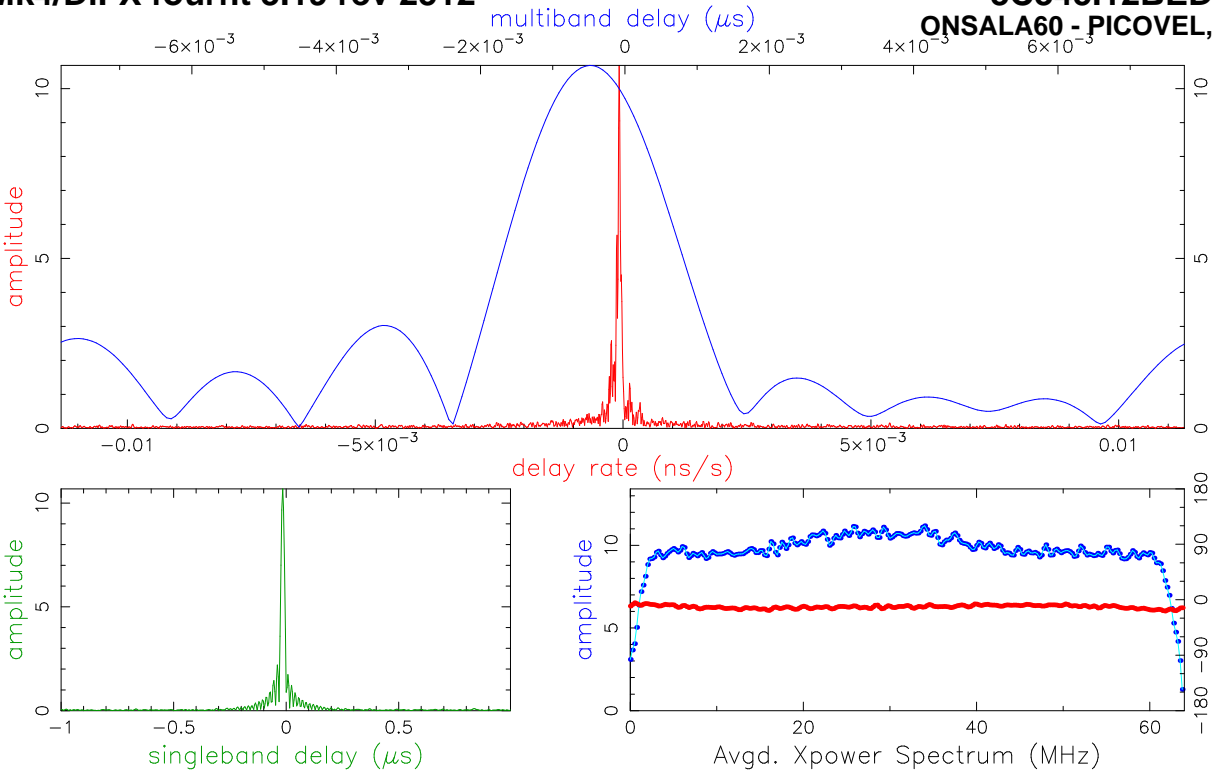


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-1.76297091399E+03	Apriori delay (usec)	-1.76298465372E+03	Resid mbdelay (usec)	-1.88527E-03	+/-	4.3E-05
Sband delay (usec)	-1.76297136872E+03	Apriori clock (usec)	3.2415222E+01	Resid sbdelay (usec)	1.32850E-02	+/-	3.4E-04
Phase delay (usec)	-1.76298465175E+03	Apriori clockrate (us/s)	8.8100003E-07	Resid phdelay (usec)	1.97433E-06	+/-	1.5E-07
Delay rate (us/s)	5.90196425273E-02	Apriori rate (us/s)	5.90197252620E-02	Resid rate (us/s)	-8.27347E-08	+/-	7.5E-10
Total phase (deg)	35.5	Apriori accel (us/s/s)	2.68521651531E-05	Resid phase (deg)	61.2	+/-	4.5

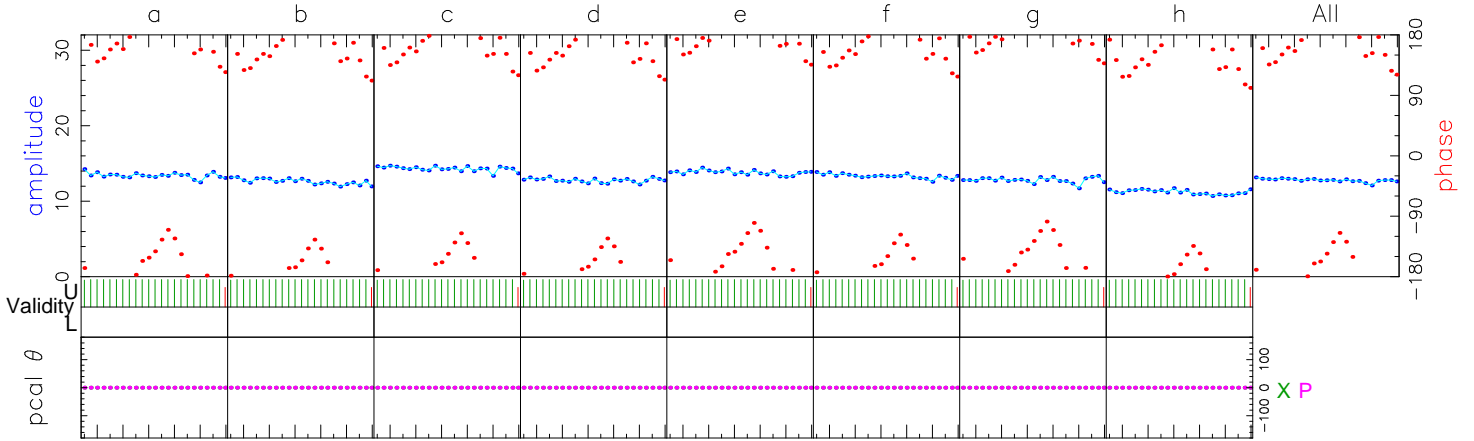
ph/seg (deg)	32.2	Theor.	10.8	Amplitude	0.505 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	21.0		18.9	Search (2048X32)	0.479	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	24.2		6.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	27.1		11.2	Inc. seg. avg.	0.577	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.529	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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XP.W.301.12BED8



Fringe quality 6
 SNR 535.9
 Int time 336.556
 Amp 10.682
 Phase 175.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.015529
 MBD -0.000479
 Fringe rate (Hz)
 -0.007061
 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
 2020:086:165658
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

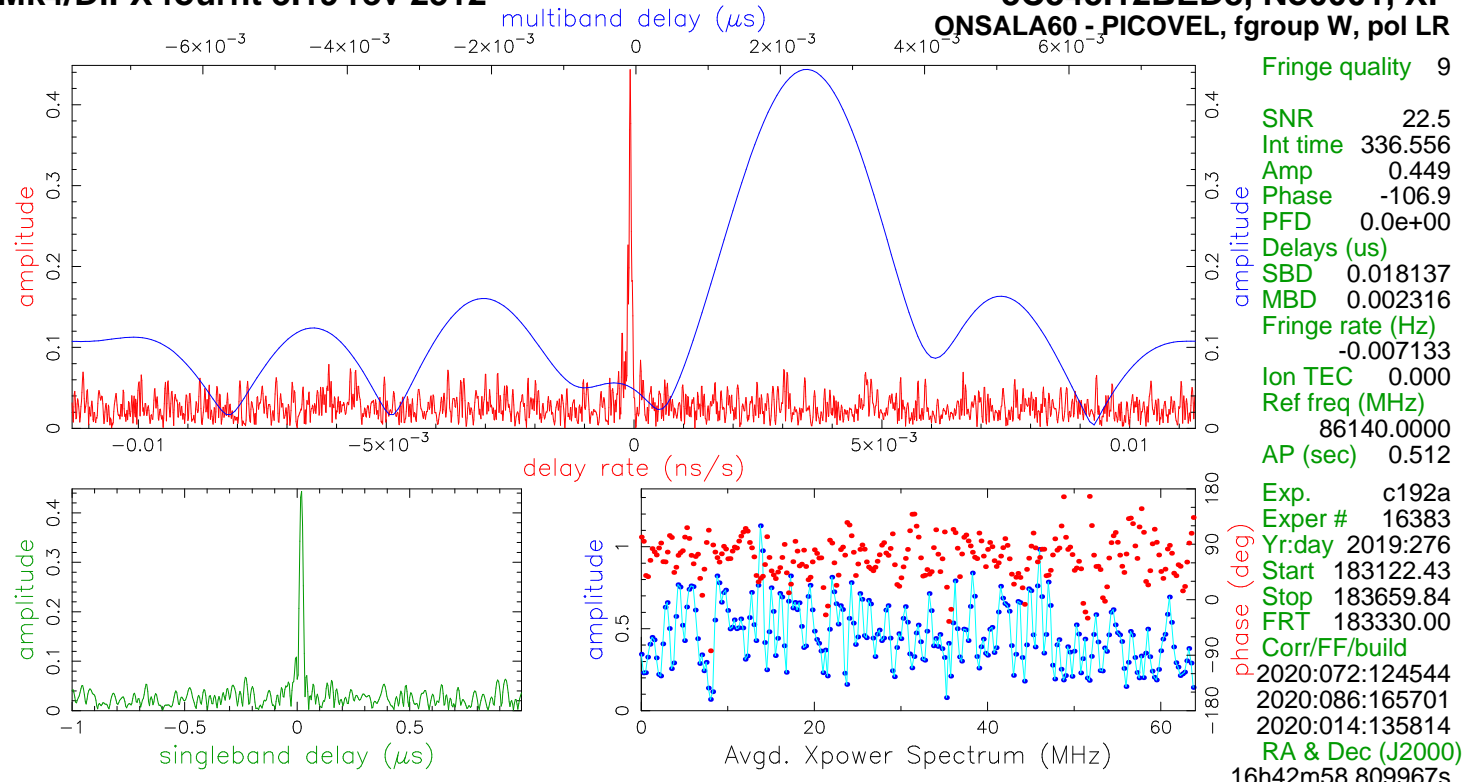
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.8	166.7	174.5	166.7	-170.4	171.6	-167.7	156.4	Phase	175.2
	11.2	10.6	12.0	10.7	11.5	11.1	10.7	9.3	Ampl.	10.9
	252.9	252.7	252.9	252.7	253.1	252.8	252.8	252.2	Sbd box	253.0
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.76300075784E+03					-1.76298465372E+03			Resid mbdelay (usec)	-4.79116E-04 +/- 2.0E-06
Sband delay (usec)	-1.76300018222E+03					3.2415222E+01			Resid sbdelay (usec)	-1.55285E-02 +/- 1.6E-05
Phase delay (usec)	-1.76298464807E+03					8.8100003E-07			Resid phdelay (usec)	5.64844E-06 +/- 6.9E-09
Delay rate (us/s)	5.90196432911E-02					5.90197252620E-02			Resid rate (us/s)	-8.19709E-08 +/- 3.5E-11
Total phase (deg)		149.4				2.68521651531E-05			Resid phase (deg)	175.2 +/- 0.2

	RMS	Theor.	Amplitude	10.682 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	34.0	0.5	Search (2048X32)	10.373	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	19.9	0.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	13.1	0.3	Inc. seg. avg.	12.794	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	7.3	0.5	Inc. frq. avg.	10.885	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

X: az 263.7 el 53.3 pa 44.2 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XP.W.320.12BED8



Fringe quality 9

SNR 22.5

Int time 336.556

Amp 0.449

Phase -106.9

PFD 0.0e+00

Delays (us)

SBD 0.018137

MBD 0.002316

Fringe rate (Hz)

-0.007133

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

2020:086:165701

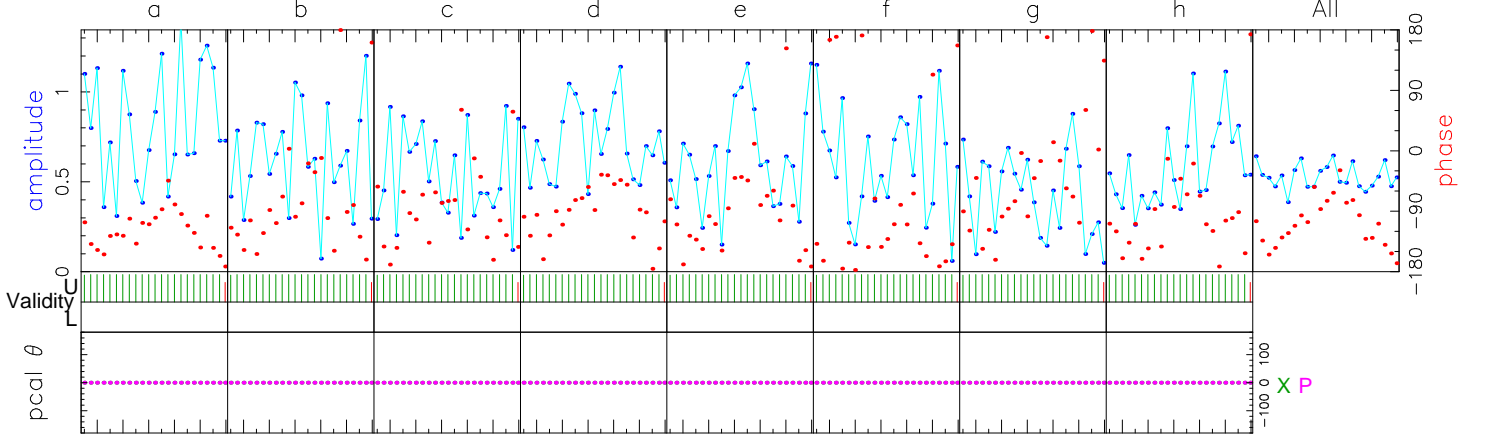
2020:014:135814

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

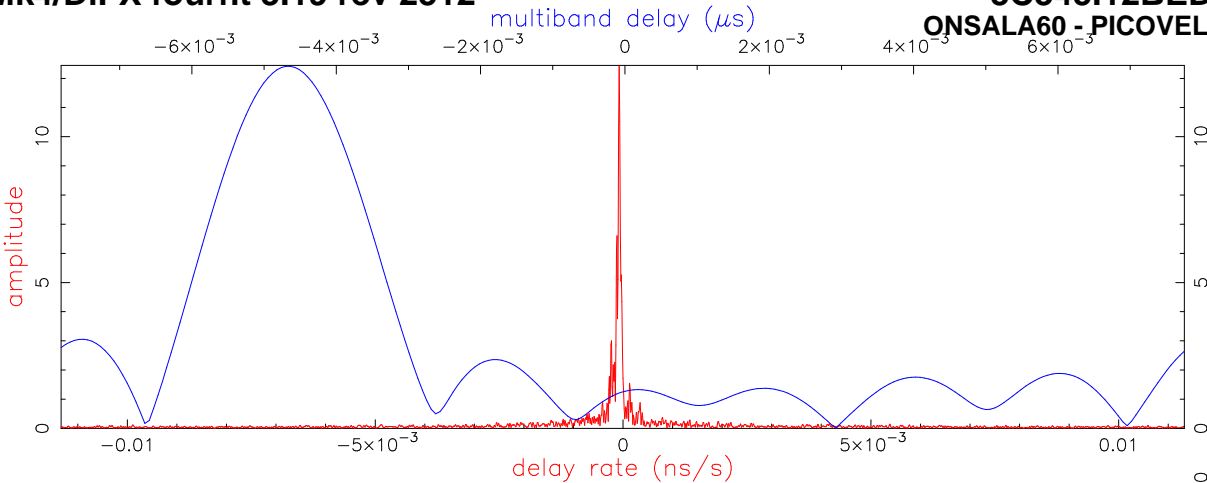


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.1	-109.2	-100.7	-87.3	-93.8	-147.6	-81.3	-103.8	Phase	-106.9
	0.7	0.5	0.4	0.6	0.4	0.5	0.3	0.4	Ampl.	0.5
	262.3	260.7	261.3	261.7	261.2	260.7	263.0	261.1	Sbd box	261.6
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.76296671246E+03		Apriori delay (usec)		-1.76298465372E+03		Resid mbdelay (usec)		2.31626E-03	+/- 4.8E-05
Sband delay (usec)	-1.76296651622E+03		Apriori clock (usec)		3.2415222E+01		Resid sbdelay (usec)		1.81375E-02	+/- 3.8E-04
Phase delay (usec)	-1.76298465717E+03		Apriori clockrate (us/s)		8.8100003E-07		Resid phdelay (usec)		-3.44728E-06	+/- 1.6E-07
Delay rate (us/s)	5.90196424557E-02		Apriori rate (us/s)		5.90197252620E-02		Resid rate (us/s)		-8.28063E-08	+/- 8.4E-10
Total phase (deg)			Apriori accel (us/s/s)		2.68521651531E-05		Resid phase (deg)		-106.9	+/- 5.1

	RMS	Theor.	Amplitude	0.449 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	34.2	12.2	Search (2048X32)	0.426	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	23.7	21.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	22.5	7.2	Inc. seg. avg.	0.518	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011
amp/frq (%)	29.3	12.6	Inc. frq. avg.	0.465	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

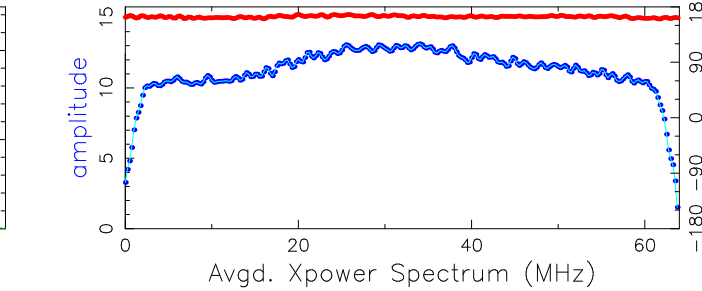
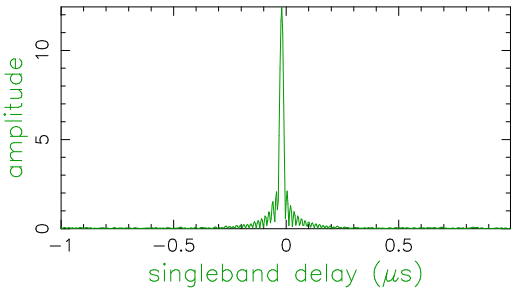
X: az 263.7 el 53.3 pa 44.2 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XP.W.337.12BED8



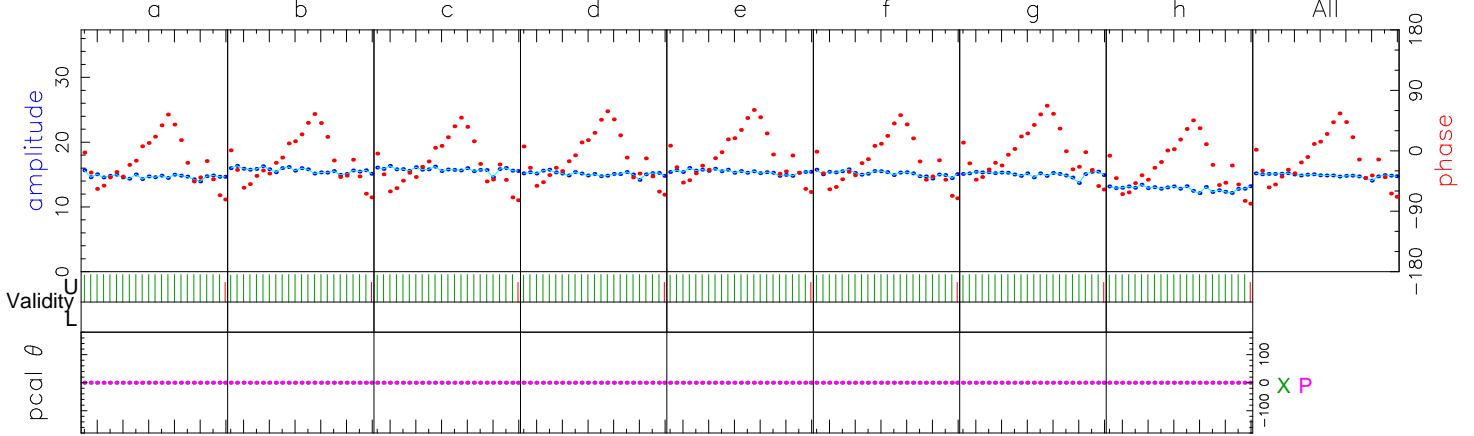
Fringe quality 7

SNR 624.4
Int time 336.556
Amp 12.446
Phase -14.3
PFD 0.0e+00
Delays (us)
SBD -0.020172
MBD -0.004685
Fringe rate (Hz)
-0.007061
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
2020:086:165705
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

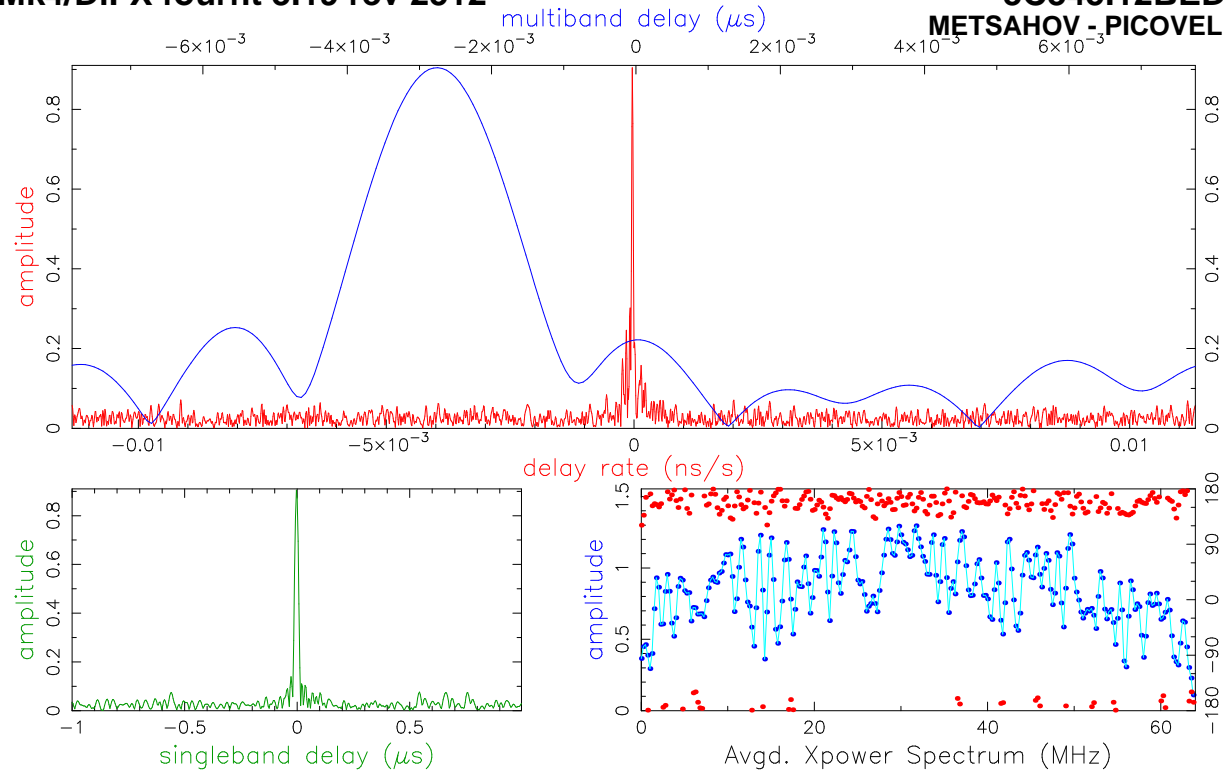


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-17.6	-14.4	-20.1	-11.8	-8.2	-16.8	-2.9	-24.1	Phase	-14.3
	12.3	13.1	13.2	12.6	12.9	12.6	12.5	10.7	Ampl.	12.5
	251.8	251.8	251.8	251.7	252.0	251.8	251.8	251.2	Sbd box	251.8
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.76300496327E+03		Apriori delay (usec)		-1.76298465372E+03		Resid mbdelay (usec)		-4.68455E-03	+/- 1.7E-06
Sband delay (usec)	-1.76300482522E+03		Apriori clock (usec)		3.2415222E+01		Resid sbdelay (usec)		-2.01715E-02	+/- 1.4E-05
Phase delay (usec)	-1.76298465418E+03		Apriori clockrate (us/s)		8.8100003E-07		Resid phdelay (usec)		-4.62427E-07	+/- 5.9E-09
Delay rate (us/s)	5.90196432904E-02		Apriori rate (us/s)		5.90197252620E-02		Resid rate (us/s)		-8.19716E-08	+/- 3.0E-11
Total phase (deg)			Apriori accel (us/s/s)		2.68521651531E-05		Resid phase (deg)		-14.3	+/- 0.2

ph/seg (deg) 34.1 0.4 Theor. Amplitude 12.446 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 19.6 0.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.3 0.3 Inc. seg. avg. 14.873 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.0 0.5 Inc. frq. avg. 12.489 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/XP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/XP.W.347.12BED8

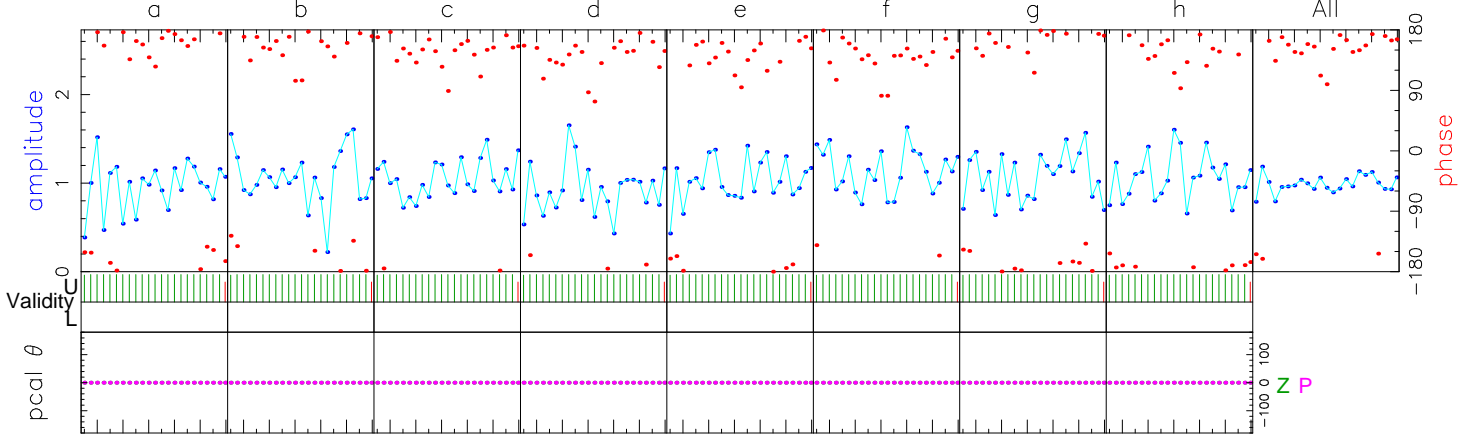
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, ZP
 METSAHOV - PICOVEL, fgroup W, pol LL



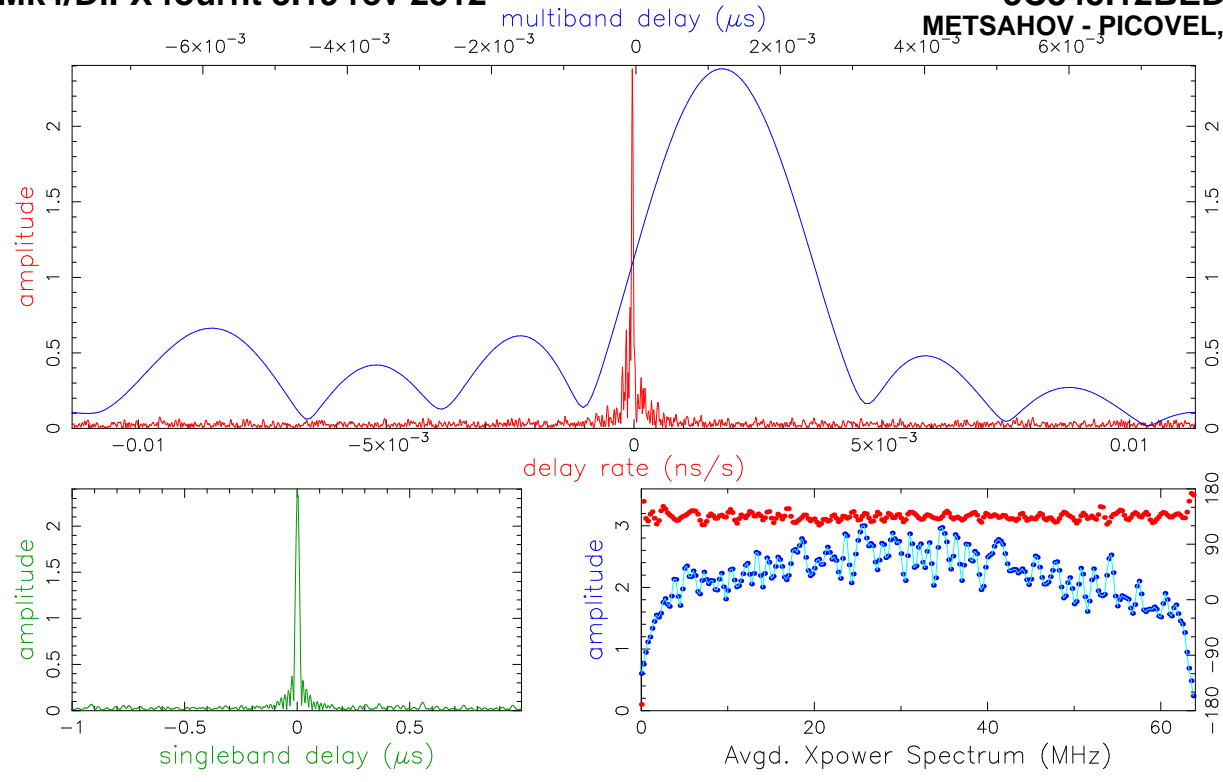
Fringe quality 7
 SNR 45.7
 Int time 336.424
 Amp 0.910
 Phase 159.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.002831
 MBD -0.002727
 Fringe rate (Hz)
 -0.003253
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183122.43
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165659
 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



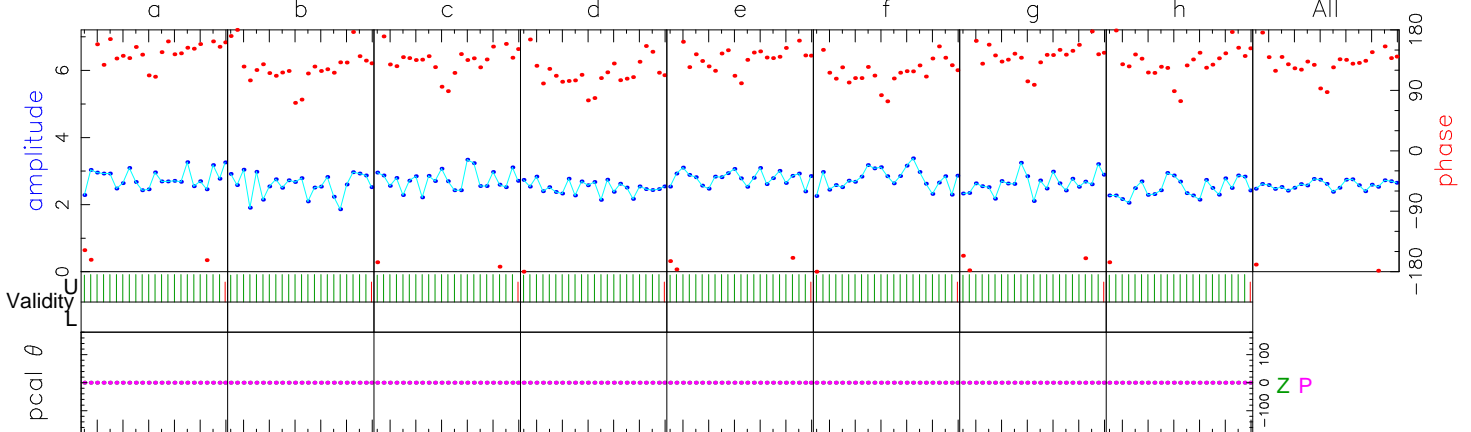
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.1	170.0	151.0	147.9	152.7	146.0	178.6	158.8	Phase	159.8
	0.9	0.9	1.0	0.8	0.9	1.0	1.0	0.9	Ampl.	0.9
	256.3	255.8	256.1	256.1	256.3	256.1	257.0	256.4	Sbd box	256.3
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.37220383236E+03		Apriori delay (usec)		-3.37220110547E+03		Resid mbdelay (usec)		-2.72688E-03	+/- 2.4E-05
Sband delay (usec)	-3.37220393597E+03		Apriori clock (usec)		2.7217829E-01		Resid sbdelay (usec)		-2.83050E-03	+/- 1.9E-04
Phase delay (usec)	-3.37220110032E+03		Apriori clockrate (us/s)		3.6929281E-07		Resid phdelay (usec)		5.15200E-06	+/- 8.1E-08
Delay rate (us/s)	2.96858300445E-02		Apriori rate (us/s)		2.96858678057E-02		Resid rate (us/s)		-3.77612E-08	+/- 4.2E-10
Total phase (deg)			Apriori accel (us/s/s)		3.70859582674E-05		Resid phase (deg)		159.8	+/- 2.5

ph/seg (deg) 24.8 6.0 Search (2048X32) 0.867 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 13.7 10.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.5 3.5 Inc. seg. avg. 0.985 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.6 6.2 Inc. frq. avg. 0.922 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 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -153.419 4234.117 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/ZP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ZP.W.326.12BED8



Fringe quality 6
 SNR 120.6
 Int time 336.424
 Amp 2.404
 Phase 135.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.001305
 MBD 0.001224
 Fringe rate (Hz)
 -0.003209
 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
 2020:086:165702
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

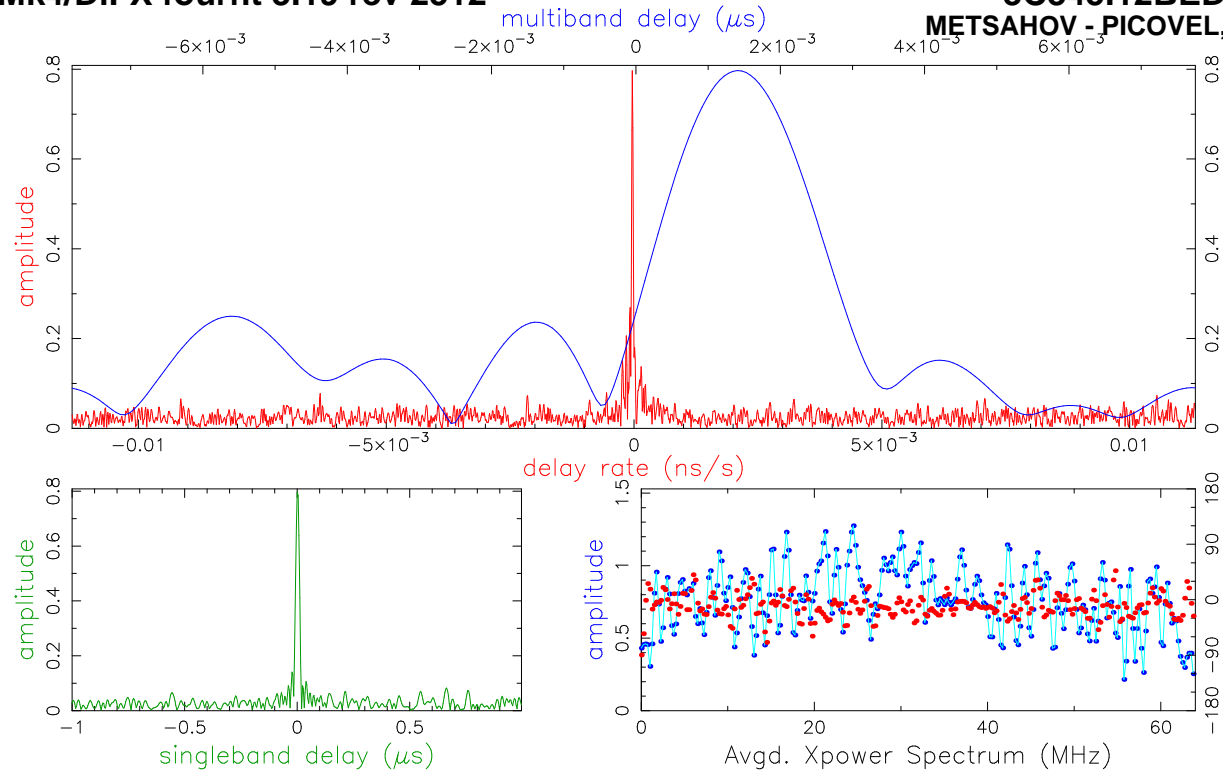
Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:P	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		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd) -3.37219988136E+03 Apriori delay (usec) -3.37220110547E+03 Resid mbdelay (usec) 1.22412E-03 +/- 9.0E-06
 Sband delay (usec) -3.37219980072E+03 Apriori clock (usec) 2.7217829E-01 Resid sbdelay (usec) 1.30475E-03 +/- 7.1E-05
 Phase delay (usec) -3.37220110110E+03 Apriori clockrate (us/s) 3.6929281E-07 Resid phdelay (usec) 4.36939E-06 +/- 3.1E-08
 Delay rate (us/s) 2.96858305497E-02 Apriori rate (us/s) 2.96858678057E-02 Resid rate (us/s) -3.72560E-08 +/- 1.6E-10
 Total phase (deg) 54.4 Apriori accel (us/s/s) 3.70859582674E-05 Resid phase (deg) 135.5 +/- 1.0

RMS Theor. Amplitude 2.404 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 23.4 2.3 Search (2048X32) 2.282 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 9.0 4.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 14.3 1.3 Inc. seg. avg. 2.583 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 5.4 2.3 Inc. frq. avg. 2.437 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

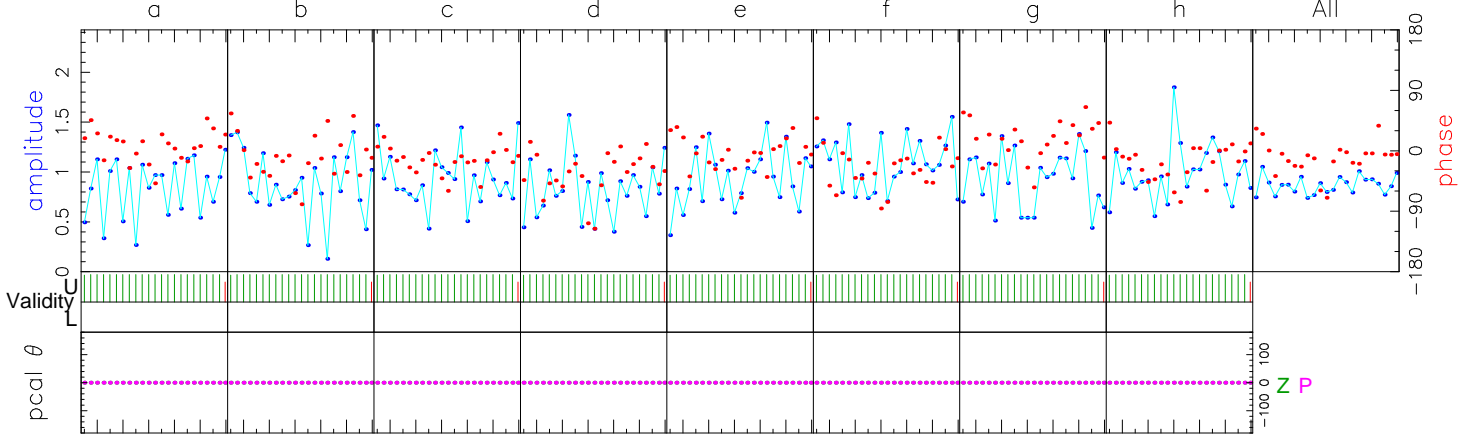


Fringe quality 7

SNR 40.6
 Int time 336.424
 Amp 0.808
 Phase -9.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.001606
 MBD 0.001452
 Fringe rate (Hz) -0.003284
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c192a
 Yr:day 16383
 Start 183122.43
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165705
 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		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.37219965332E+03								1.45215E-03	+/- 2.7E-05
Sband delay (usec)	-3.37219949997E+03								1.60550E-03	+/- 2.1E-04
Phase delay (usec)	-3.37220110578E+03								-3.05739E-07	+/- 9.1E-08
Delay rate (us/s)	2.96858296768E-02								-3.81289E-08	+/- 4.7E-10
Total phase (deg)			-90.6						-9.5	+/- 2.8
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)									-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) 24.0 6.8
 amp/seg (%) 12.8 11.8
 ph/frq (deg) 18.6 4.0
 amp/frq (%) 9.6 7.0

RMS Theor. Amplitude 0.808 +/- 0.020
 Search (2048X32) 0.769
 Interp. 0.000
 Inc. seg. avg. 0.861
 Inc. frq. avg. 0.826

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 SampCntNorm: enabled
 Sample rate(MISamp/s): 128
 Data rate(Mb/s): 2048
 nlags: 256 t_cohere infinite

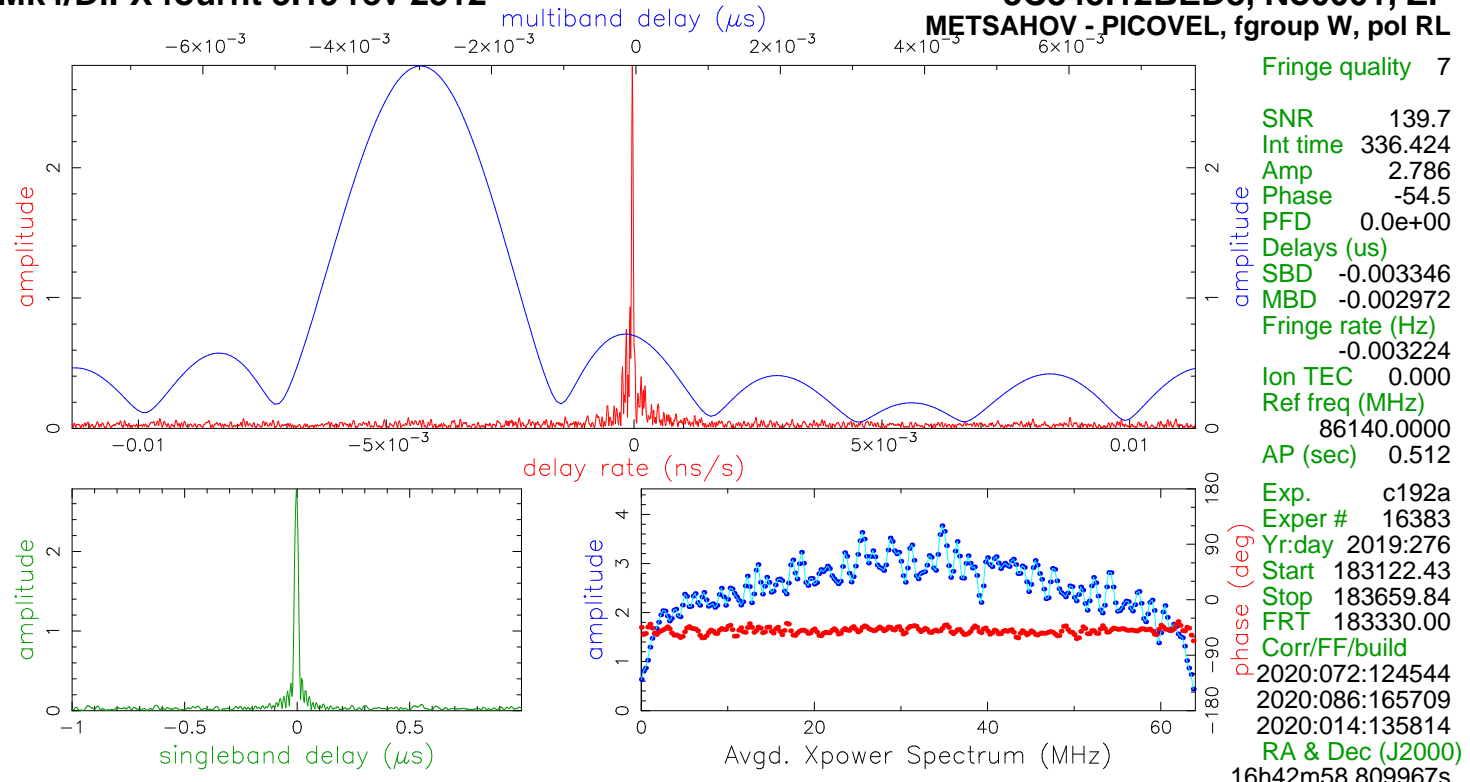
sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

Z: az 271.4 el 46.7 pa 40.3 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -153.419 4234.117 simultaneous interpolator

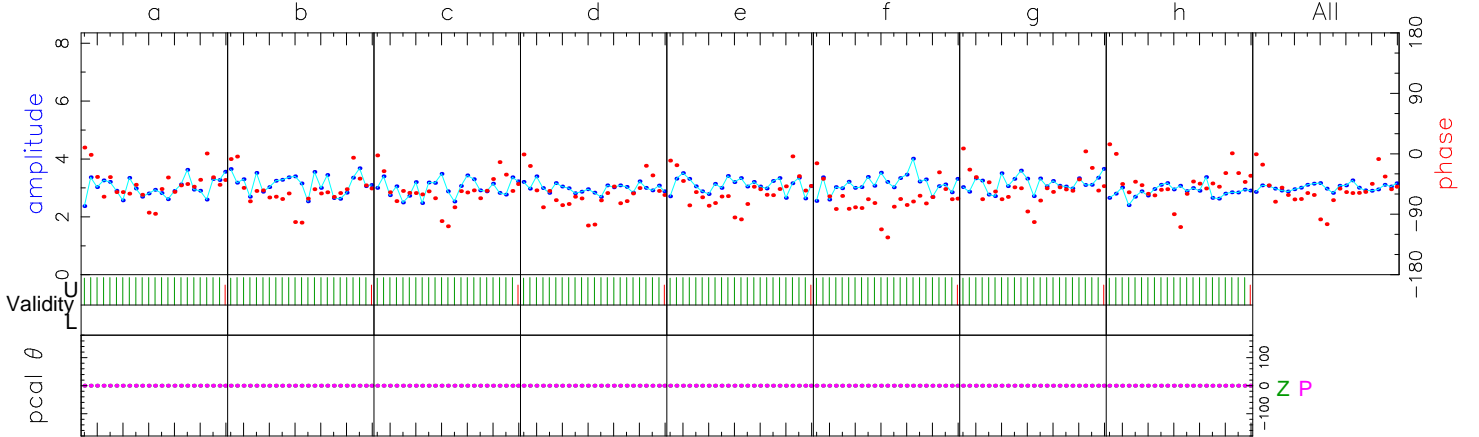
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/ZP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ZP.W.350.12BED8

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, ZP
 METSAHOV - PICOVEL, fgroup W, pol RL



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
Group delay (usec)(sbd)	-45.3	-54.2	-55.3	-59.5	-56.0	-69.9	-49.7	-45.3	Phase	-54.5
Sband delay (usec)	2.8	2.9	2.8	2.7	2.9	2.9	2.9	2.6	Ampl.	2.8
Phase delay (usec)	255.7	255.9	256.0	256.2	256.3	256.2	256.6	255.7	Sbd box	256.1
Delay rate (us/s)	255.7	255.9	256.0	256.2	256.3	256.2	256.6	255.7	APs used	
Total phase (deg)	U/L 659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	PC freqs	
	Z 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	P 1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
	Z:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
	Z:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
	Z 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
	P 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
	Z W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	P W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-3.37220407739E+03		Apriori delay (usec)	-3.37220110547E+03	Resid mbdelay (usec)	-2.97192E-03	+/-	7.8E-06		
Sband delay (usec)	-3.37220445122E+03		Apriori clock (usec)	2.7217829E-01	Resid sbdelay (usec)	-3.34575E-03	+/-	6.2E-05		
Phase delay (usec)	-3.37220110723E+03		Apriori clockrate (us/s)	3.6929281E-07	Resid phdelay (usec)	-1.75767E-06	+/-	2.6E-08		
Delay rate (us/s)	2.96858303761E-02		Apriori rate (us/s)	2.96858678057E-02	Resid rate (us/s)	-3.74296E-08	+/-	1.4E-10		
Total phase (deg)		-135.6	Apriori accel (us/s/s)	3.70859582674E-05	Resid phase (deg)	-54.5	+/-	0.8		

ph/seg (deg) 23.4 2.0 Theor. Amplitude 2.786 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 9.2 3.4 Search (2048X32) 2.711 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.7 1.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 3.6 2.0 Inc. seg. avg. 3.017 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 271.4 el 46.7 pa 40.3 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -153.419 4234.117 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/ZP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ZP.W.359.12BED8 simultaneous interpolator