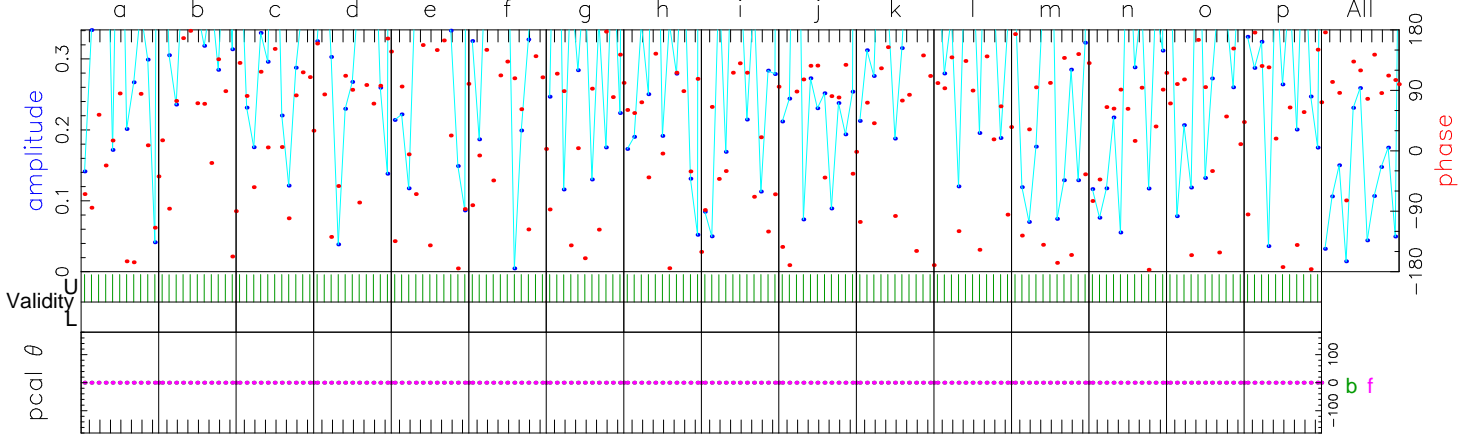


Fringe quality 0

SNR 6.3
Int time 406.164
Amp 0.114
Phase 112.8
PFD 9.5e-02
Delays (us)
SBD -0.004569
MBD -0.003316
Fringe rate (Hz) 0.002249
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

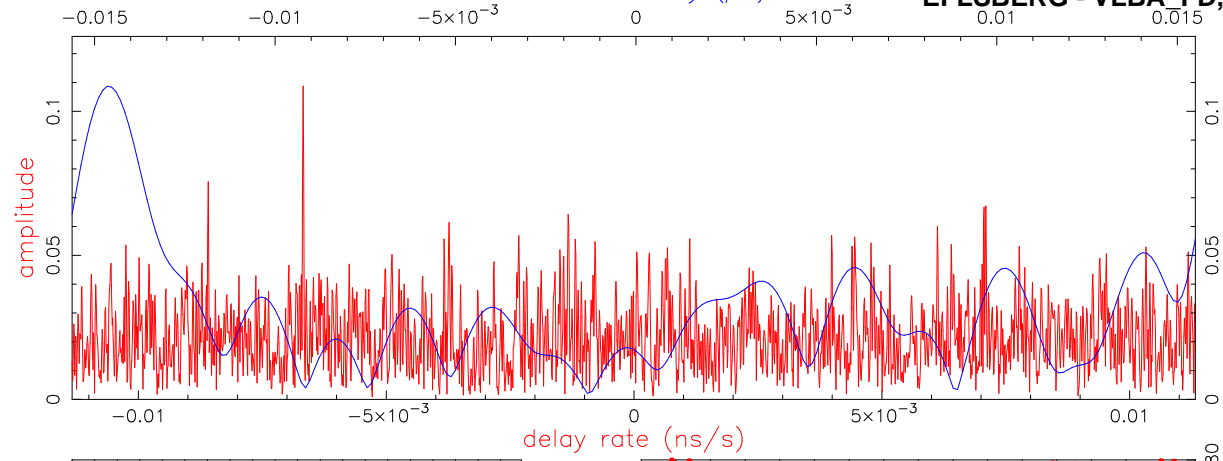
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042728
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 72 APs / seg (36.86 sec / seg.), time ticks 60 sec

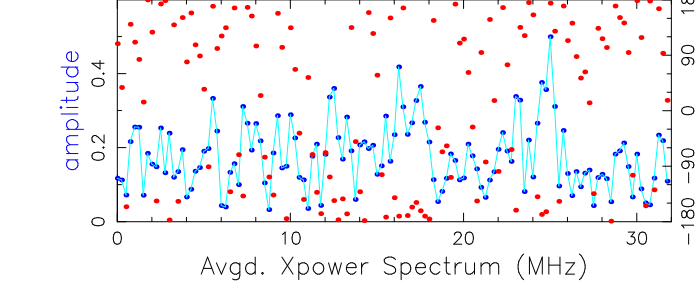
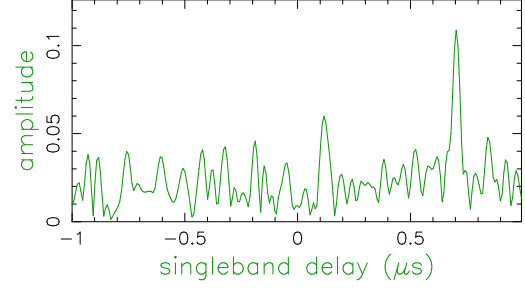


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0			
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	
Group delay (usec)(sbd)		-1.02685060768E+03																	
Sband delay (usec)		-1.02685186022E+03																	
Phase delay (usec)		-1.02684728759E+03																	
Delay rate (us/s)		-1.40198796855E-01																	
Total phase (deg)					-127.0														
Apriori delay (usec)																			
Apriori clock (usec)																			
Apriori clockrate (us/s)																			
Apriori rate (us/s)																			
Apriori accel (us/s/s)																			
Resid mbdelay (usec)																			
Resid sbdelay (usec)																			
Resid phdelay (usec)																			
Resid rate (us/s)																			
Resid phase (deg)																			
PCal mode: MANUAL, MANUAL																			
PCal rate: 0.000E+00, 0.000E+00 (us/s)																			
Bits/sample: 2x2																			
Sample rate(MISamp/s): 64																			
Data rate(Mb/s): 2048																			
nlags: 128																			
t_cohere infinite																			
sb window (us)																			
mb window (us)																			
dr window (ns/s)																			
ion window (TEC)																			
pcal mode: MANUAL, MANUAL																			
PC period (AP's) 5, 5																			
Search (2048X64)																			
Interp.																			
Inc. seg. avg.																			
Inc. frq. avg.																			
0.114 +/- 0.018																			
0.109																			
0.000																			
0.105																			
0.109																			
PCal rate: 0.000E+00, 0.000E+00 (us/s)																			
SampCntNorm: enabled																			
Sample rate(MISamp/s): 64																			
Data rate(Mb/s): 2048																			
nlags: 128																			
t_cohere infinite																			
sb window (us)																			
mb window (us)																			
dr window (ns/s)																			
ion window (TEC)																			
-1.000 1.000																			
-0.016 0.016																			
-0.011 0.011																			
0.00 0.00																			

multiband delay (μ s)

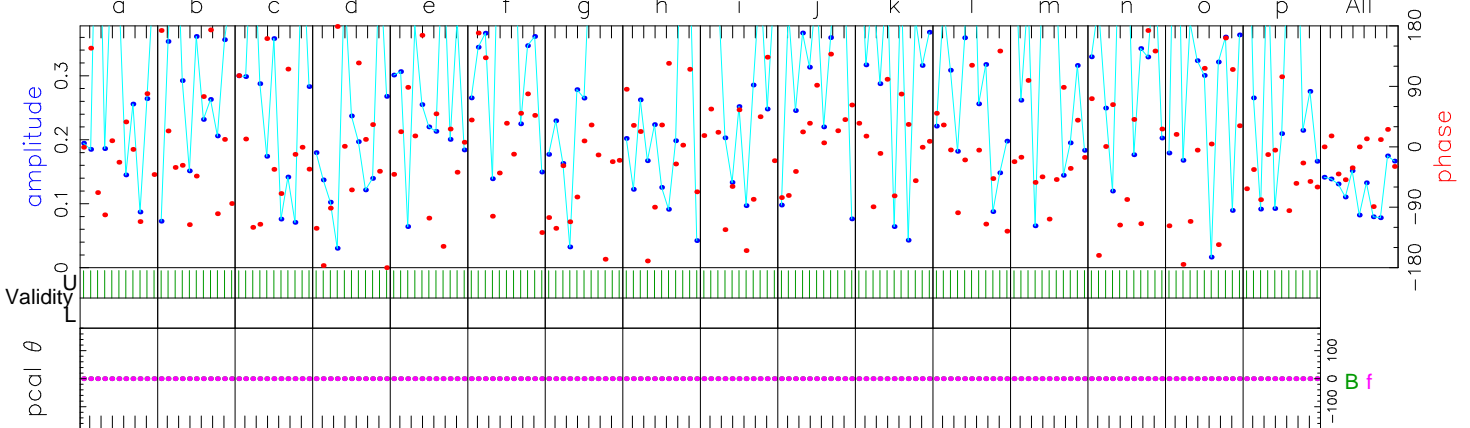


Fringe quality 0
SNR 6.0
Int time 410.455
Amp 0.126
Phase -12.2
PFD 3.5e-01
Delays (us)
SBD 0.703594
MBD -0.014600
Fringe rate (Hz)
-0.575775
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



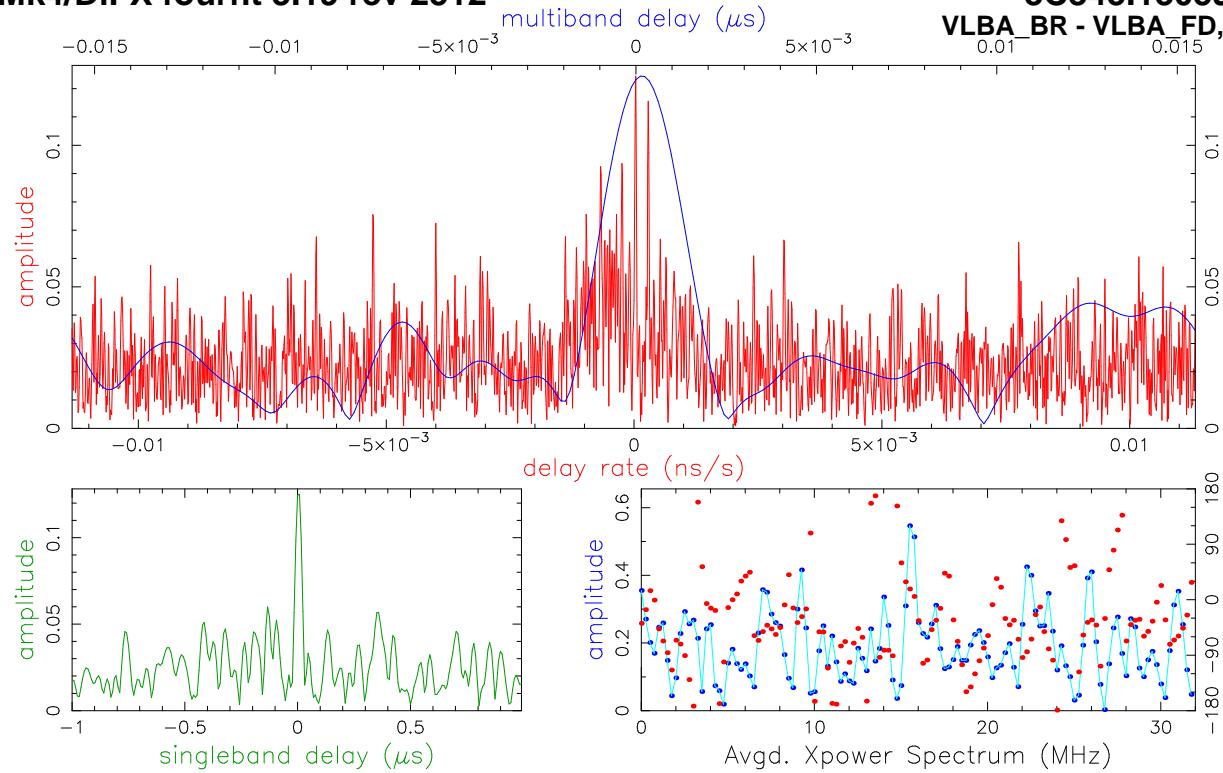
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042730
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-25.8	-35.8	-42.3	-43.0	-17.7	29.1	-34.4	34.2	21.4	29.1	14.6	15.9	-22.7	-139.9	38.9	-50.6		Phase	-12.2				
	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.3		Ampl.	0.1				
	22.3	97.7	37.0	198.8	145.0	48.7	62.4	14.5	216.0	169.3	218.8	102.0	228.8	109.3	232.6	218.7		Sbd box	219.1				
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase					
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		Chan ids					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks					
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			4.63805659991E+03															Apriori delay (usec)	4.63735244955E+03	Resid mbdelay (usec)	-1.45996E-02	+/-	1.8E-04
Sband delay (usec)			4.63805604355E+03															Apriori clock (usec)	1.6384283E+01	Resid sbdelay (usec)	7.03594E-01	+/-	2.9E-03
Phase delay (usec)			4.63735244916E+03															Apriori clockrate (us/s)	-1.0905050E-07	Resid phdelay (usec)	-3.92880E-07	+/-	6.1E-07
Delay rate (us/s)			-1.47664053884E+00															Apriori rate (us/s)	-1.47663385466E+00	Resid rate (us/s)	-6.68418E-06	+/-	2.6E-09
Total phase (deg)					-10.7													Apriori accel (us/s/s)	-5.63668925130E-06	Resid phase (deg)	-12.2	+/-	19.0

ph/seg (deg) 33.5 31.5 Search (2048X64) 0.126 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 34.0 55.0 Interp. 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.7 38.0 Inc. seg. avg. 0.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 62.1 66.4 Inc. frq. avg. 0.128 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Bf..1305JH Output file: /Exps/c192a/v2/1234/No0001/Bf.W.30.1305JH

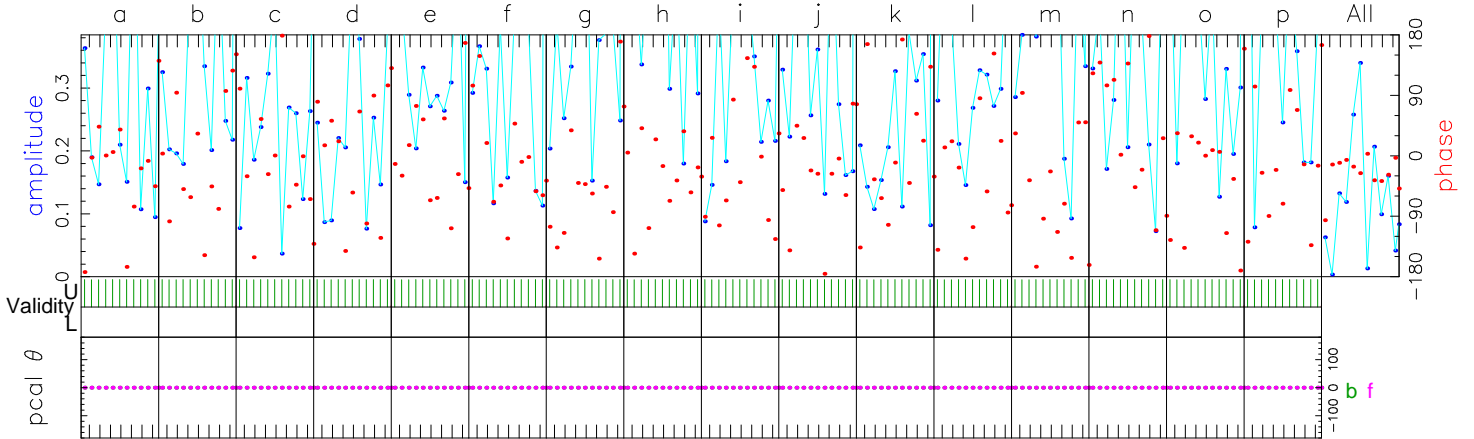


Fringe quality 0

SNR 7.1
Int time 406.164
Amp 0.128
Phase -25.2
PFD 4.8e-04
Delays (us)
SBD 0.004089
MBD 0.000216
Fringe rate (Hz) 0.002738
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042733
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 72 APs / seg (36.86 sec / seg.), time ticks 60 sec

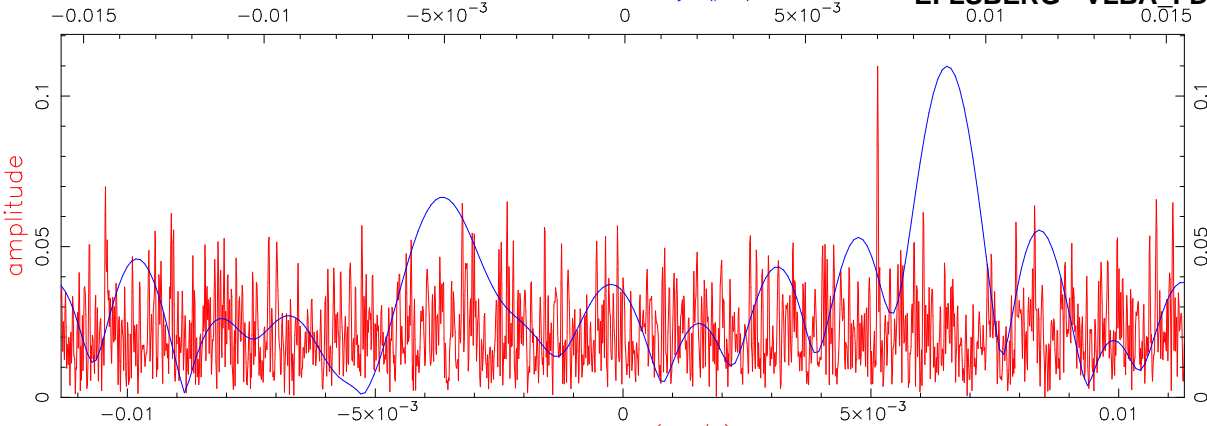


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-19.8	-36.5	-30.2	56.7	-16.7	-0.1	-74.1	-28.0	-76.3	-3.9	-25.0	-30.9	-34.5	37.1	-43.2	-52.3		Phase	-25.2				
	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.0	0.2	0.1	0.1	0.2	0.1	0.1	0.1		Ampl.	0.1				
	164.8	220.0	89.8	81.8	181.1	54.6	185.7	129.6	58.6	209.9	195.2	135.1	117.7	94.0	7.0	207.8		Sbd box	129.5				
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		APs used					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-1.02684707565E+03															Apriori delay (usec)	-1.02684729122E+03	Resid mbdelay (usec)	2.15572E-04	+/-	1.5E-04
Sband delay (usec)			-1.02684320272E+03															Apriori clock (usec)	-1.0674781E+00	Resid sbdelay (usec)	4.08850E-03	+/-	2.4E-03
Phase delay (usec)			-1.02684729204E+03															Apriori clockrate (us/s)	-1.5144557E-07	Resid phdelay (usec)	-8.12936E-07	+/-	5.2E-07
Delay rate (us/s)			-1.40198791185E-01															Apriori rate (us/s)	-1.40198822967E-01	Resid rate (us/s)	3.17824E-08	+/-	2.2E-09
Total phase (deg)					-265.0													Apriori accel (us/s/s)	2.24195151398E-05	Resid phase (deg)	-25.2	+/-	16.2

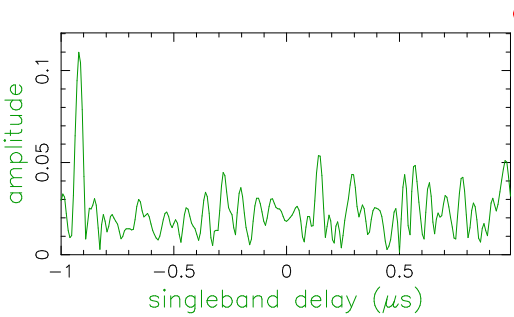
ph/seg (deg) 25.9 28.1 28.1 Search (2048X64) 0.123 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.0 49.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.0 32.4 Inc. seg. avg. 0.117 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.8 56.6 Inc. frq. avg. 0.121 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 66.1 el 33.9 pa -52.6 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 1086.832 3053.430 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bf..1305JH Output file: /Exps/c192a/v2/1234/No0001/bf.W.41.1305JH

multiband delay (μ s)

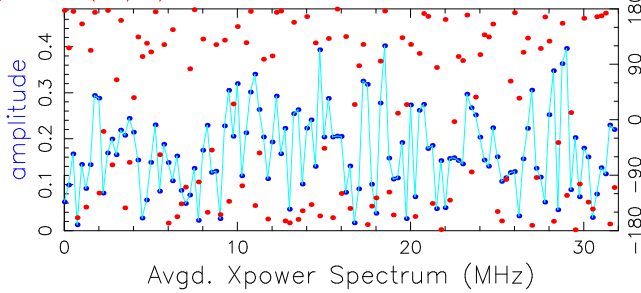
Fringe quality 0



SNR 6.1
Int time 410.455
Amp 0.120
Phase -136.0
PFD 2.1e-01
Delays (us)
SBD -0.919980
MBD 0.008947
Fringe rate (Hz)
0.442693
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

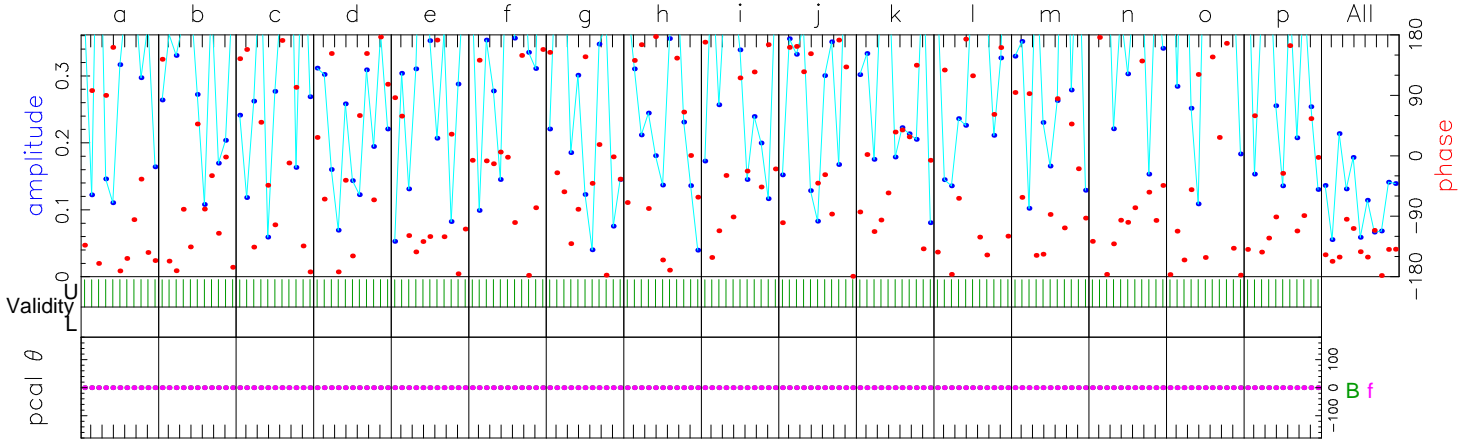


delay rate (ns/s)

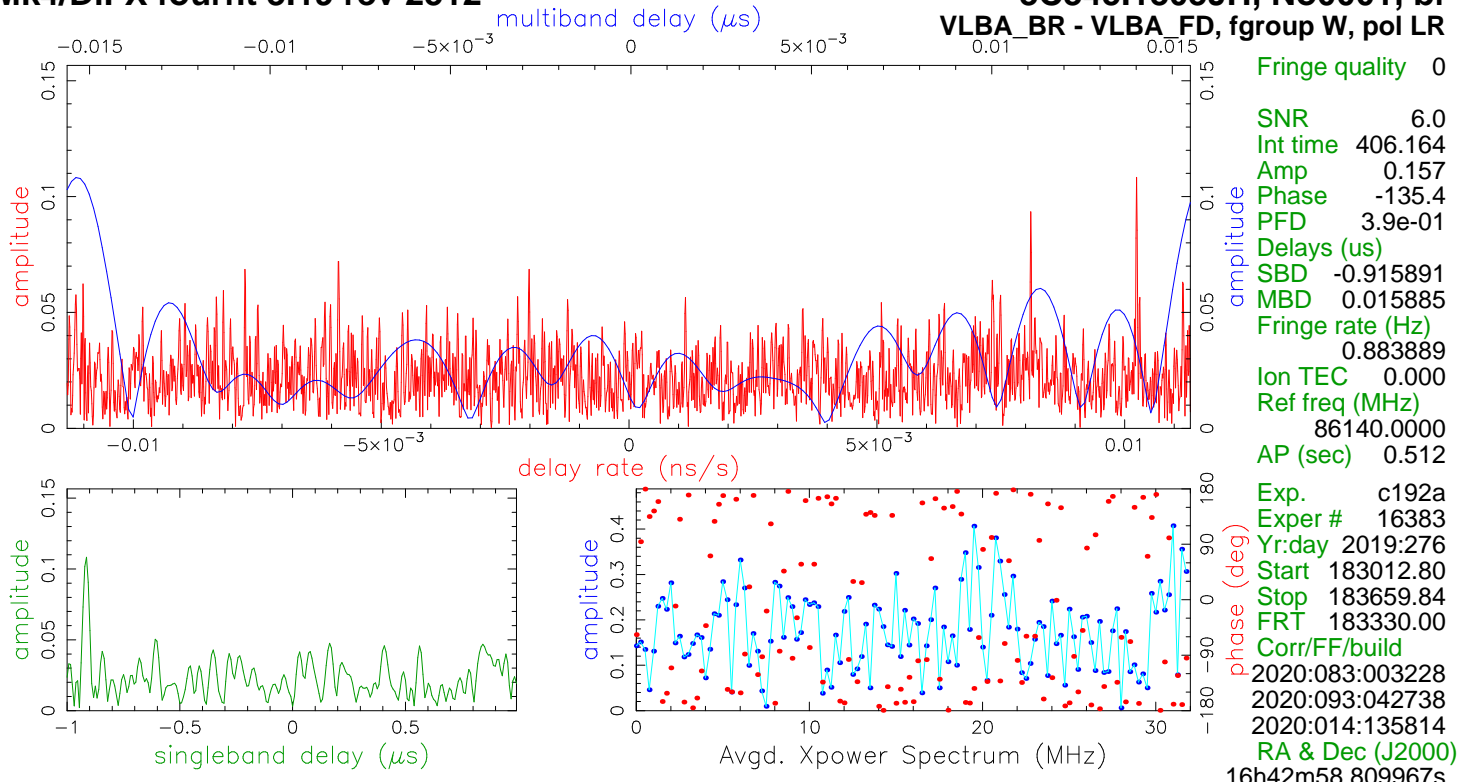


Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042735
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

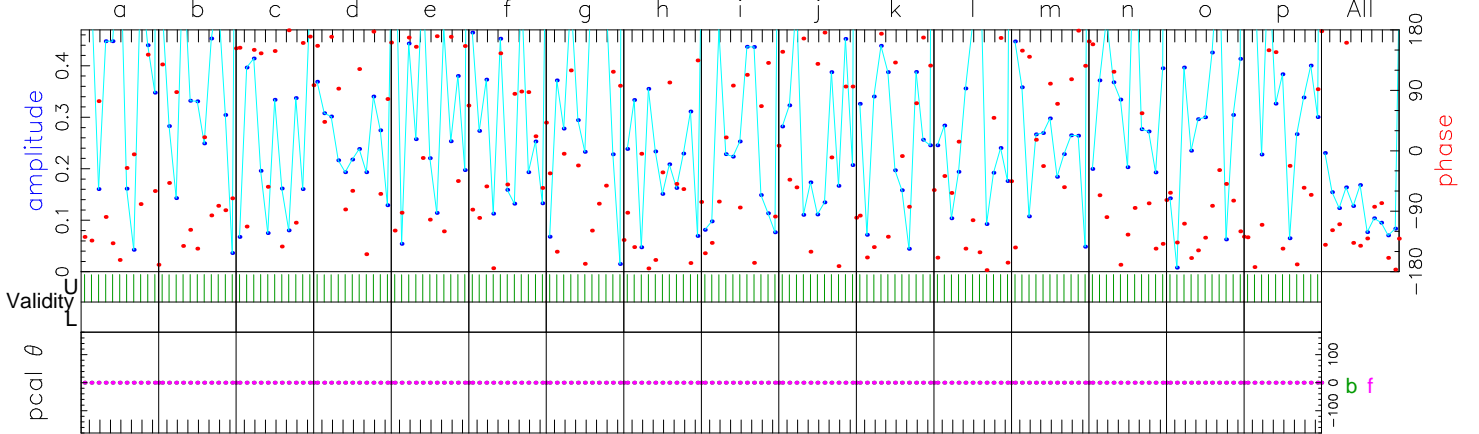
Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-145.3	-126.9	-152.8	176.8	-134.1	-43.6	-58.2	-177.6	-90.6	170.0	-60.7	-156.0	-87.5	-123.8	-168.7	-123.7	Phase	-136.0
	0.2	0.1	0.1	0.0	0.2	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.3	0.3	0.2	Ampl.	0.1
	172.9	23.5	251.7	55.1	76.3	247.9	208.4	253.6	116.6	145.9	203.5	122.4	124.9	129.8	11.9	213.3	Sbd box	11.2
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	4.63642389639E+03			Apriori delay (usec)			4.63735244955E+03			Resid mbdelay (usec)			8.94684E-03			+/- 1.8E-04		
Sband delay (usec)	4.63643246955E+03			Apriori clock (usec)			1.6384283E+01			Resid sbdelay (usec)			-9.19980E-01			+/- 2.8E-03		
Phase delay (usec)	4.63735244516E+03			Apriori clockrate (us/s)			-1.0905050E-07			Resid phdelay (usec)			-4.38604E-06			+/- 6.0E-07		
Delay rate (us/s)	-1.47662871543E+00			Apriori rate (us/s)			-1.47663385466E+00			Resid rate (us/s)			5.13923E-06			+/- 2.5E-09		
Total phase (deg)	-134.5			Apriori accel (us/s/s)			-5.63668925130E-06			Resid phase (deg)			-136.0			+/- 18.7		
	RMS	Theor.	Amplitude	0.120 +/- 0.020		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5										
ph/seg (deg)	23.3	31.0	Search (2048X64)	0.108		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000						
amp/seg (%)	45.3	54.2	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016		0.016				
ph/frq (deg)	49.1	37.4	Inc. seg. avg.	0.113		Sample rate(MISamp/s): 64		dr window (ns/s)		-0.011		0.011						
amp/frq (%)	70.3	65.3	Inc. frq. avg.	0.122		Data rate(Mb/s): 2048		nlags: 128		t_cohere infinite		ion window (TEC)		0.00		0.00		



Amp. and Phase vs. time for each freq., 12 segs, 72 APs / seg (36.86 sec / seg.), time ticks 60 sec

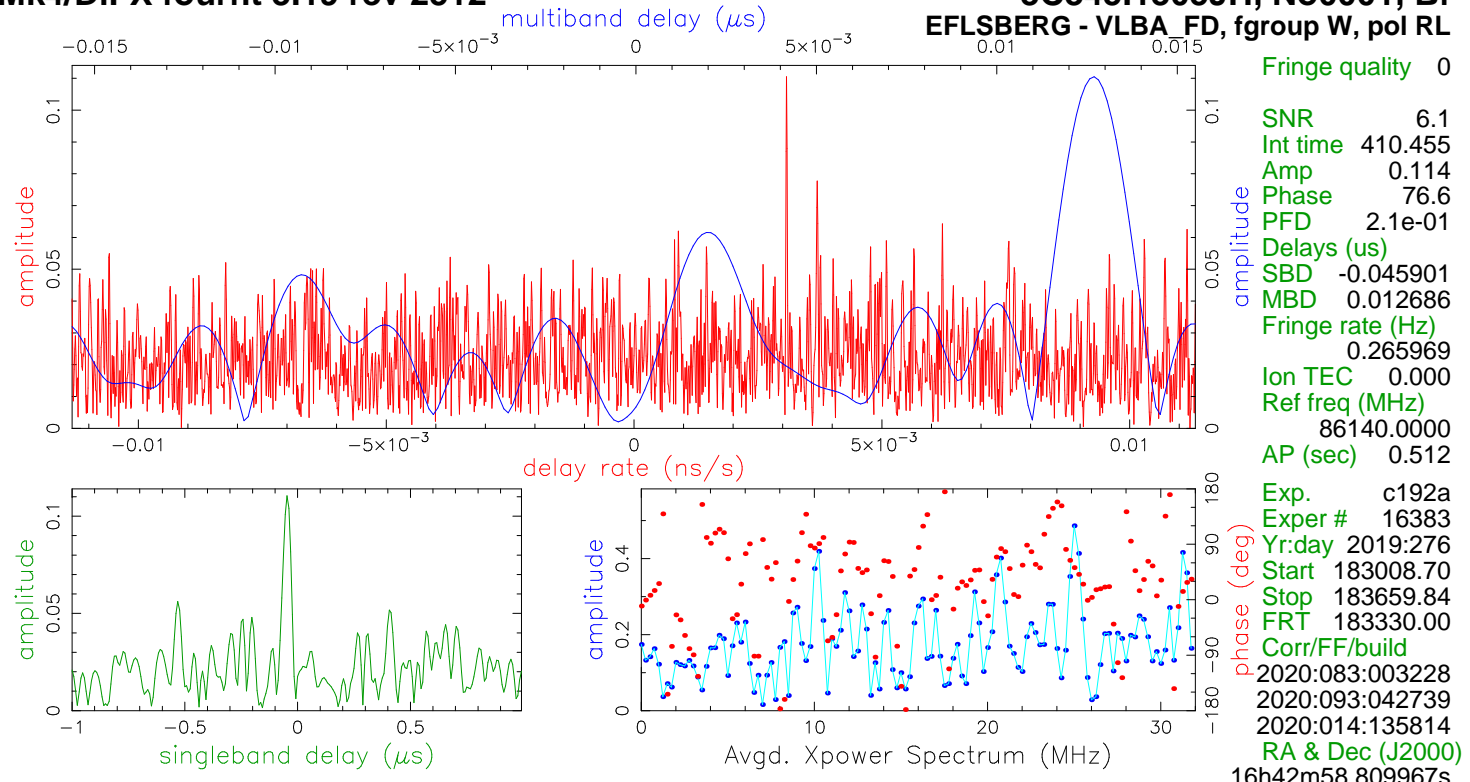


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-126.0	-114.4	-176.3	161.8	-126.9	-5.1	-99.0	-137.1	-172.2	118.4	-171.4	-132.7	133.0	-116.4	-96.1	-157.0	Phase	-135.4				
	0.4	0.2	0.3	0.1	0.2	0.0	0.0	0.2	0.1	0.1	0.0	0.2	0.2	0.1	0.3	0.3	Ampl.	0.2				
	11.1	154.4	247.0	37.1	178.8	88.8	170.8	66.1	68.2	78.0	1.4	202.1	90.7	255.1	210.9	151.6	Sbd box	11.8				
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase					
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks					
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
Group delay (usec)(sbd)			-1.02776890619E+03														Apriori delay (usec)	-1.02684729122E+03	Resid mbdelay (usec)	1.58850E-02	+/-	1.8E-04
Sband delay (usec)			-1.02776318172E+03														Apriori clock (usec)	-1.0674781E+00	Resid sbdelay (usec)	-9.15891E-01	+/-	2.9E-03
Phase delay (usec)			-1.02684729559E+03														Apriori clockrate (us/s)	-1.5144557E-07	Resid phdelay (usec)	-4.36478E-06	+/-	6.2E-07
Delay rate (us/s)			-1.40188561887E-01														Apriori rate (us/s)	-1.40198822967E-01	Resid rate (us/s)	1.02611E-05	+/-	2.6E-09
Total phase (deg)					-15.2												Apriori accel (us/s/s)	2.24195151398E-05	Resid phase (deg)	-135.4	+/-	19.1

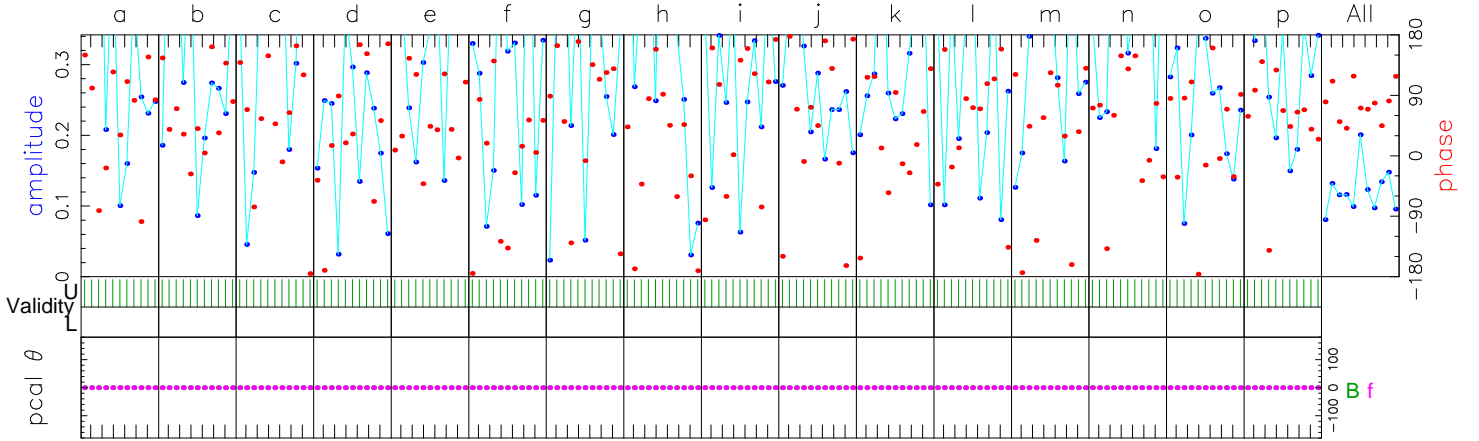
	RMS	Theor.	Amplitude	0.157 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	34.9	33.1	Search (2048X64)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	51.0	57.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	59.3	38.2	Inc. seg. avg.	0.158	Sample rate(MISamp/s): 64	dr window (ns/s) -0.011 0.011
amp/frq (%)	69.6	66.6	Inc. frq. avg.	0.152	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 66.1 el 33.9 pa -52.6 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 1086.832 3053.430 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bf..1305JH Output file: /Exps/c192a/v2/1234/No0001/bf.W.60.1305JH



Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec

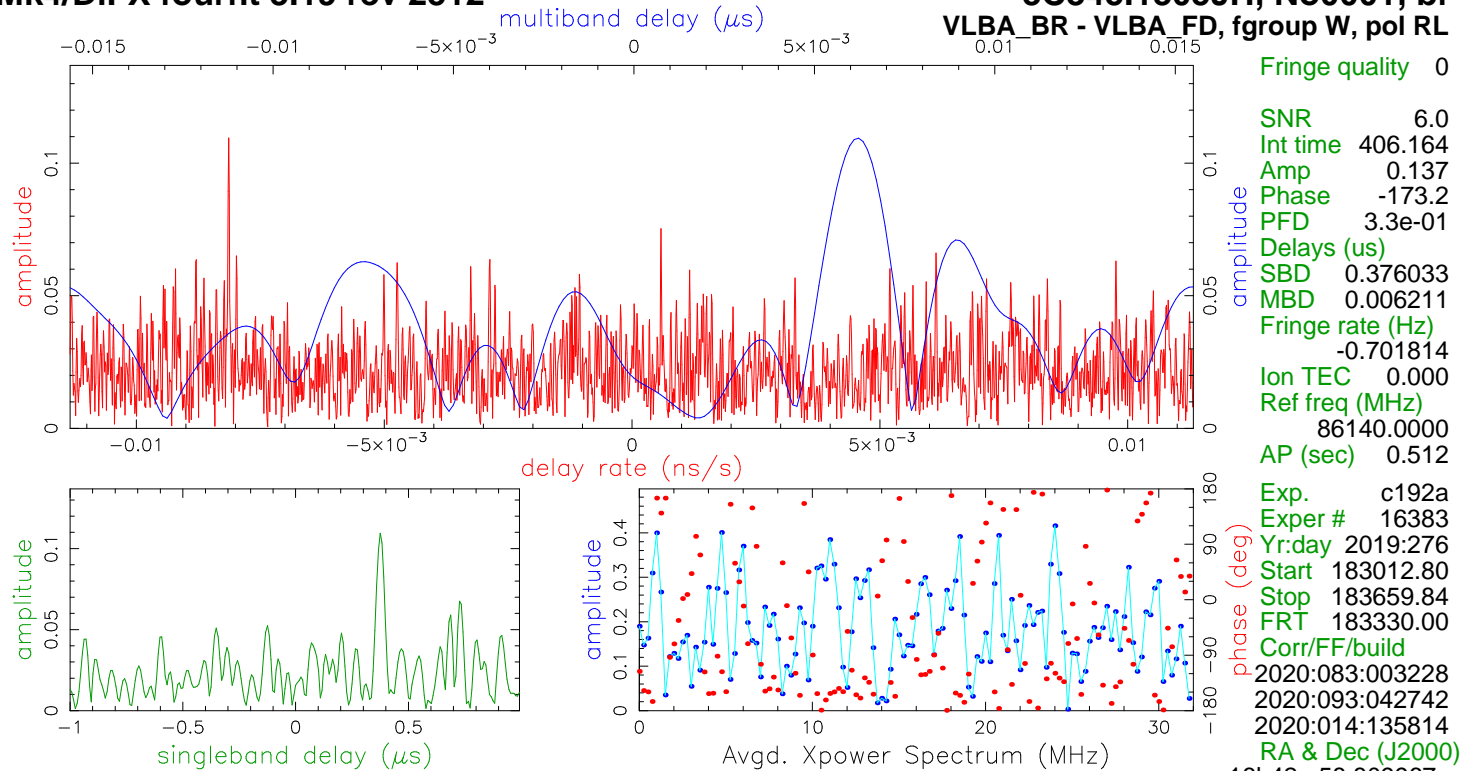


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
118.9	54.0	106.7	36.5	36.0	65.6	140.8	57.0	140.6	112.2	36.0	66.1	109.6	66.3	59.8	77.8	Phase	76.6	
0.1	0.2	0.2	0.1	0.3	0.0	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1	
69.3	122.3	208.5	197.8	199.1	193.3	192.4	124.0	228.2	20.1	202.1	118.8	120.7	109.4	13.7	122.8	Sbd box	123.1	
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

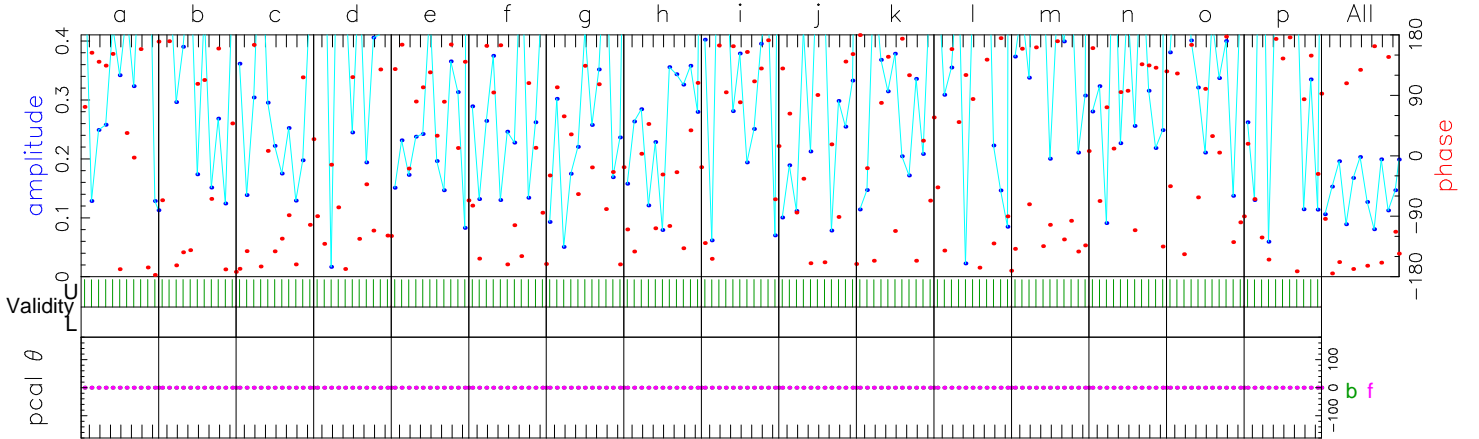
Group delay (usec)(sbd) 4.63730263553E+03 Apriori delay (usec) 4.63735244955E+03 Resid mbdelay (usec) 1.26860E-02 +/- 1.8E-04
 Sband delay (usec) 4.63730654855E+03 Apriori clock (usec) 1.6384283E+01 Resid sbdelay (usec) -4.59010E-02 +/- 2.8E-03
 Phase delay (usec) 4.63735245202E+03 Apriori clockrate (us/s) -1.0905050E-07 Resid phdelay (usec) 2.46890E-06 +/- 6.0E-07
 Delay rate (us/s) -1.47663076703E+00 Apriori rate (us/s) -1.47663385466E+00 Resid rate (us/s) 3.08763E-06 +/- 2.5E-09
 Total phase (deg) 78.0 Apriori accel (us/s/s) -5.63668925130E-06 Resid phase (deg) 76.6 +/- 18.7

RMS Theor. Amplitude 0.114 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 26.5 31.0 Search (2048X64) 0.108 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 30.1 54.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 37.5 37.4 Inc. seg. avg. 0.110 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 59.3 65.3 Inc. frq. avg. 0.114 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Bf..1305JH Output file: /Exps/c192a/v2/1234/No0001/Bf.W.64.1305JH

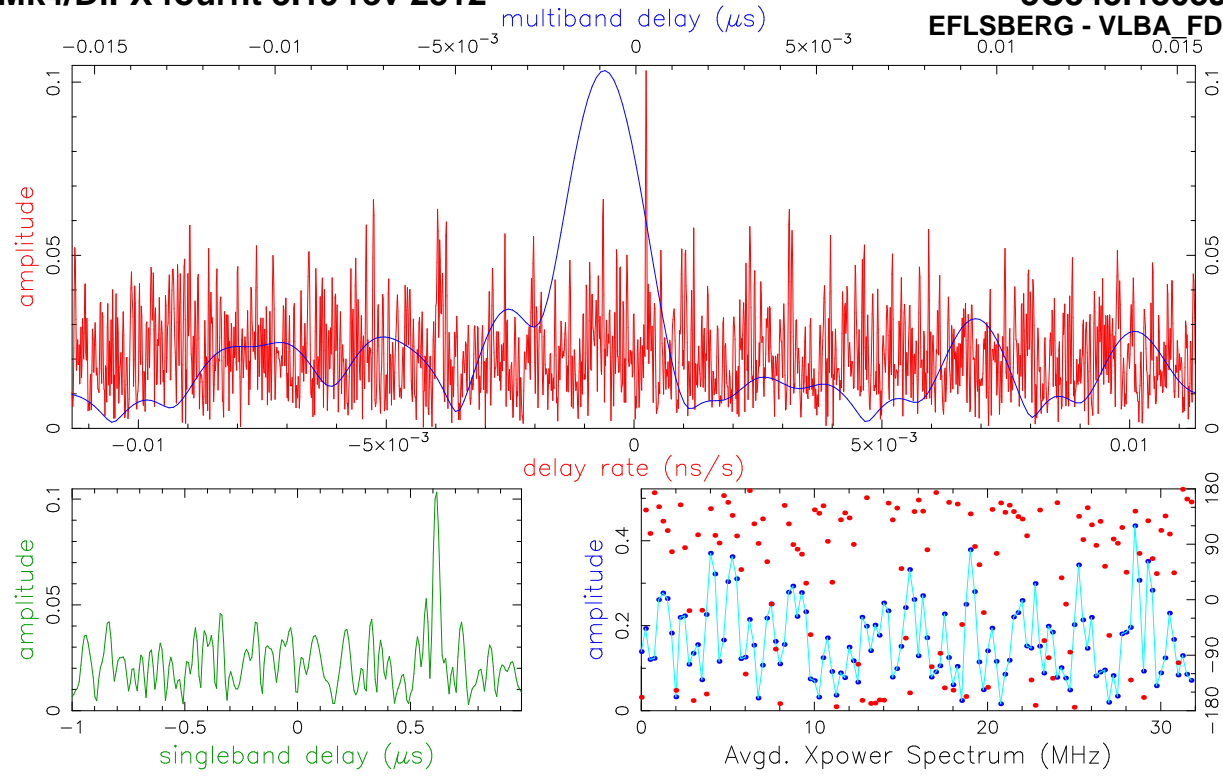


Amp. and Phase vs. time for each freq., 12 segs, 72 APs / seg (36.86 sec / seg.), time ticks 60 sec



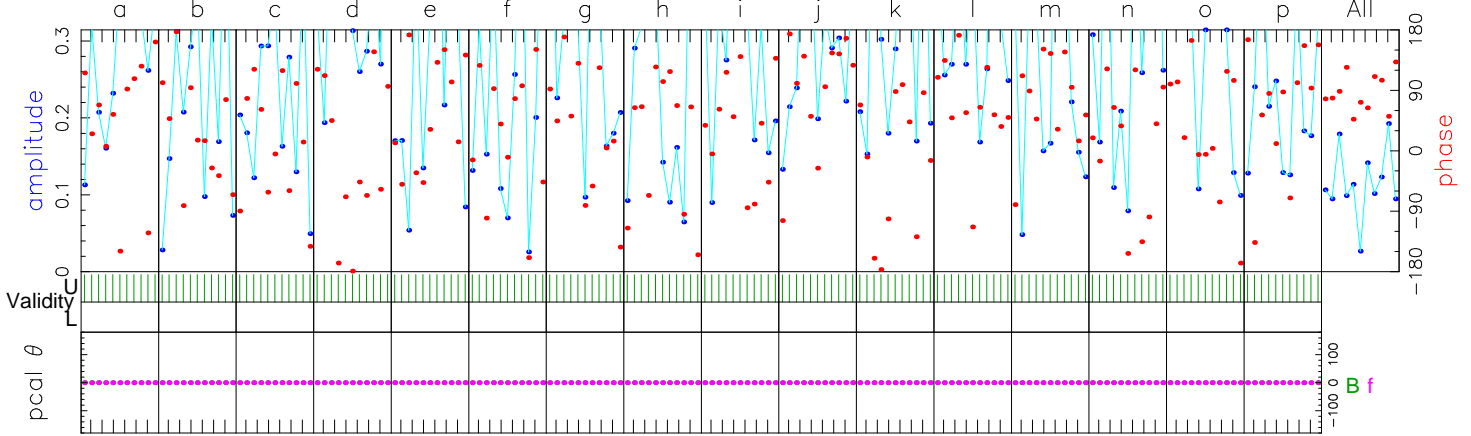
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	142.8	-176.6	-146.8	-122.2	103.0	-143.0	6.9	-65.5	144.9	162.0	-158.9	161.2	-145.2	120.2	-144.7	-175.4		Phase	-173.2				
	0.3	0.2	0.2	0.4	0.2	0.1	0.0	0.1	0.3	0.1	0.1	0.2	0.4	0.1	0.1	0.3		Ampl.	0.2				
	221.9	194.2	161.3	175.6	158.0	46.9	22.4	63.1	177.2	217.9	7.8	96.5	176.9	40.4	45.5	36.6		Sbd box	177.1				
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		APs used					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
																		Tracks					
Group delay (usec)(sbd)		-1.02646608026E+03																Apriori delay (usec)	-1.02684729122E+03	Resid mbdelay (usec)	6.21097E-03	+/-	1.8E-04
Sband delay (usec)		-1.02647125872E+03																Apriori clock (usec)	-1.0674781E+00	Resid sbdelay (usec)	3.76033E-01	+/-	2.9E-03
Phase delay (usec)		-1.02684729681E+03																Apriori clockrate (us/s)	-1.5144557E-07	Resid phdelay (usec)	-5.58566E-06	+/-	6.1E-07
Delay rate (us/s)		-1.40206970338E-01																Apriori rate (us/s)	-1.40198822967E-01	Resid rate (us/s)	-8.14737E-06	+/-	2.6E-09
Total phase (deg)					-53.0													Apriori accel (us/s/s)	2.24195151398E-05	Resid phase (deg)	-173.2	+/-	19.0

ph/seg (deg) 45.0 32.9 Search (2048X64) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 49.7 57.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 68.9 37.9 Inc. seg. avg. 0.154 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 79.6 66.2 Inc. frq. avg. 0.153 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 66.1 el 33.9 pa -52.6 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 1086.832 3053.430 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bf..1305JH Output file: /Exps/c192a/v2/1234/No0001/bf.W.79.1305JH



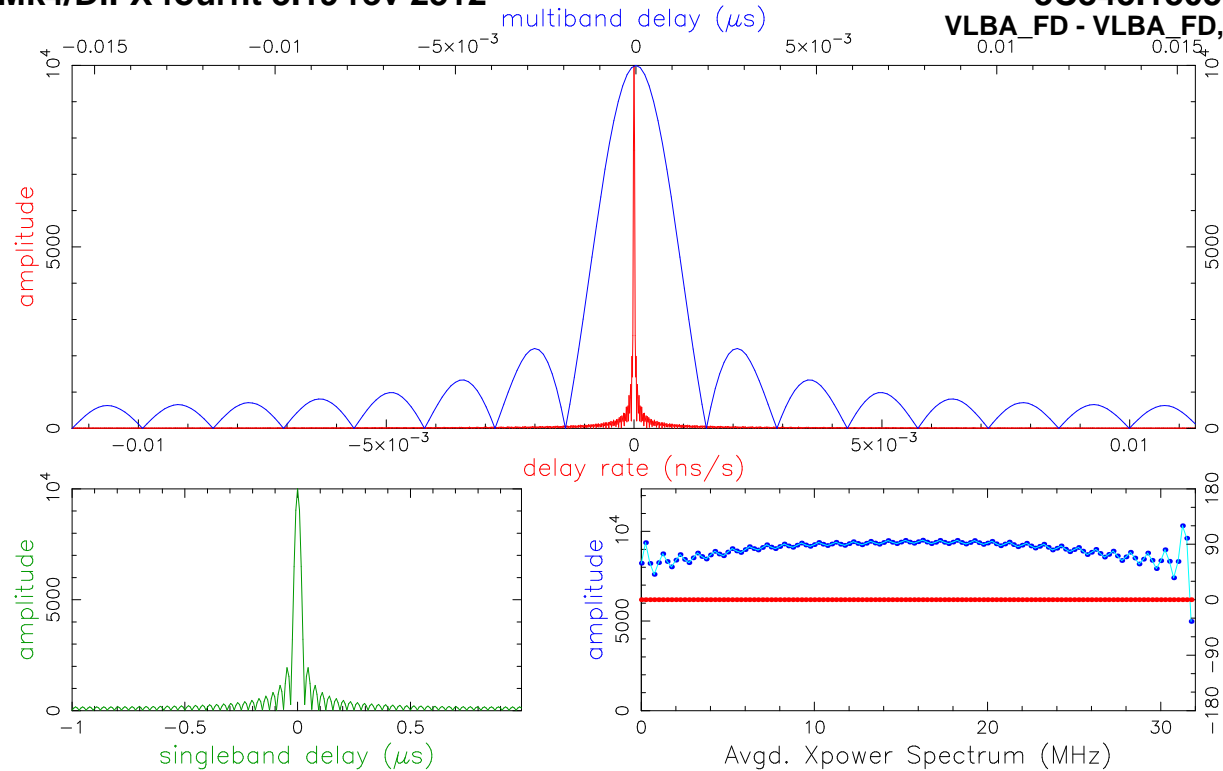
Fringe quality 0
SNR 5.8
Int time 410.455
Amp 0.105
Phase 83.5
PFD 8.0e-01
Delays (us)
SBD 0.614338
MBD -0.000924
Fringe rate (Hz) 0.020877
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042726
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks
Group delay (usec)(sbd)		4.63797652520E+03								4.63735244955E+03							-9.24346E-04	+/- 1.9E-04
Sband delay (usec)		4.63796678705E+03								1.6384283E+01							6.14338E-01	+/- 3.0E-03
Phase delay (usec)		4.63735245224E+03								-1.0905050E-07							2.69148E-06	+/- 6.4E-07
Delay rate (us/s)		-1.47663361230E+00								-1.47663385466E+00							2.42360E-07	+/- 2.7E-09
Total phase (deg)					84.9					-5.63668925130E-06							83.5	+/- 19.7

ph/seg (deg) 27.3 32.7 Amplitude 0.105 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.0 57.1 Search (2048X64) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.2 39.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 31.9 68.9 Inc. seg. avg. 0.100 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 10997.354 1283.837 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Bf..1305JH Output file: /Exps/c192a/v2/1234/No0001/Bf.W.9.1305JH simultaneous interpolator

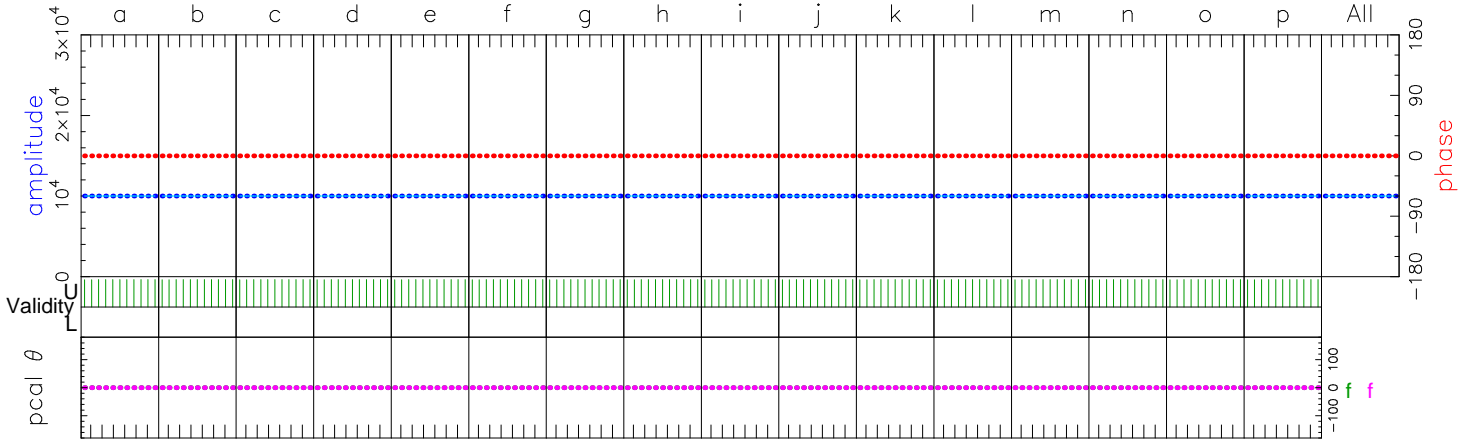


Fringe quality 9

SNR 554026.7
Int time 410.455
Amp 10000.004
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 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042753
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



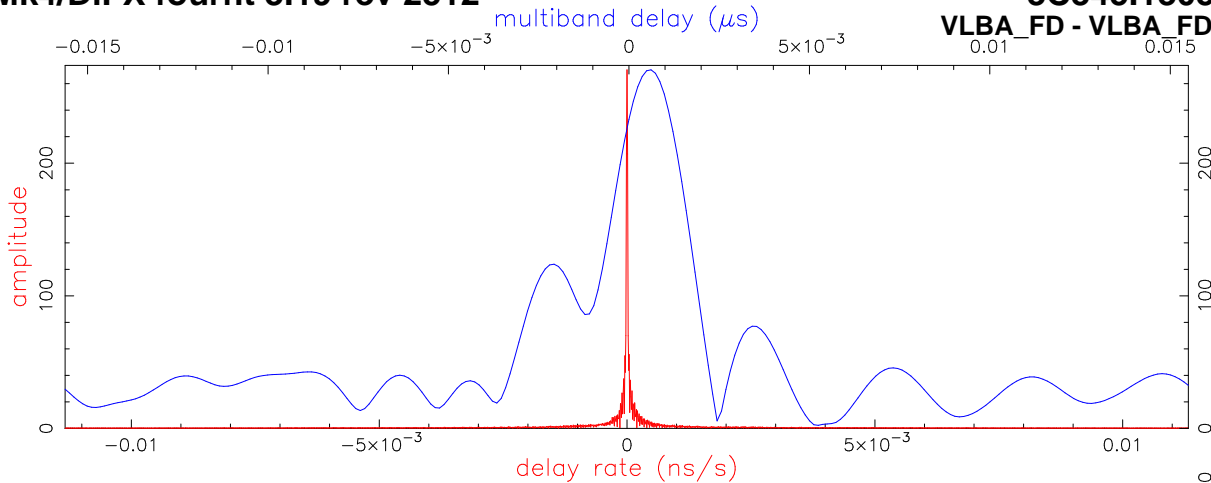
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	3.1E-08
Phase delay (usec)	-8.50258964960E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-8.50259E-20	+/-	6.7E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.8E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.004 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X64) 10000.004 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 0.000 0.000 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ff..1305JH Output file: /Exps/c192a/v2/1234/No0001/ff.W.111.1305JH simultaneous interpolator

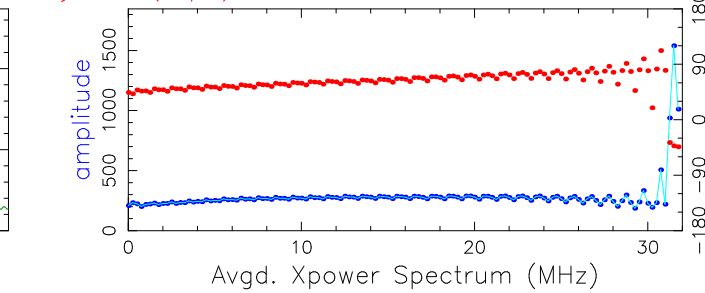
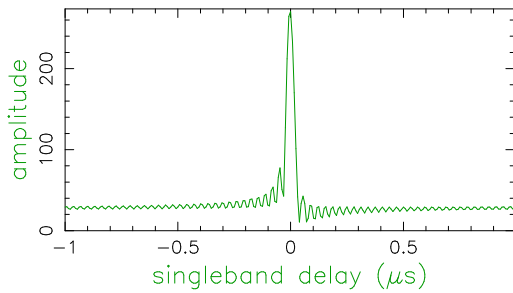
Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, ff
VLBA_FD - VLBA_FD, fgroup W, pol LR



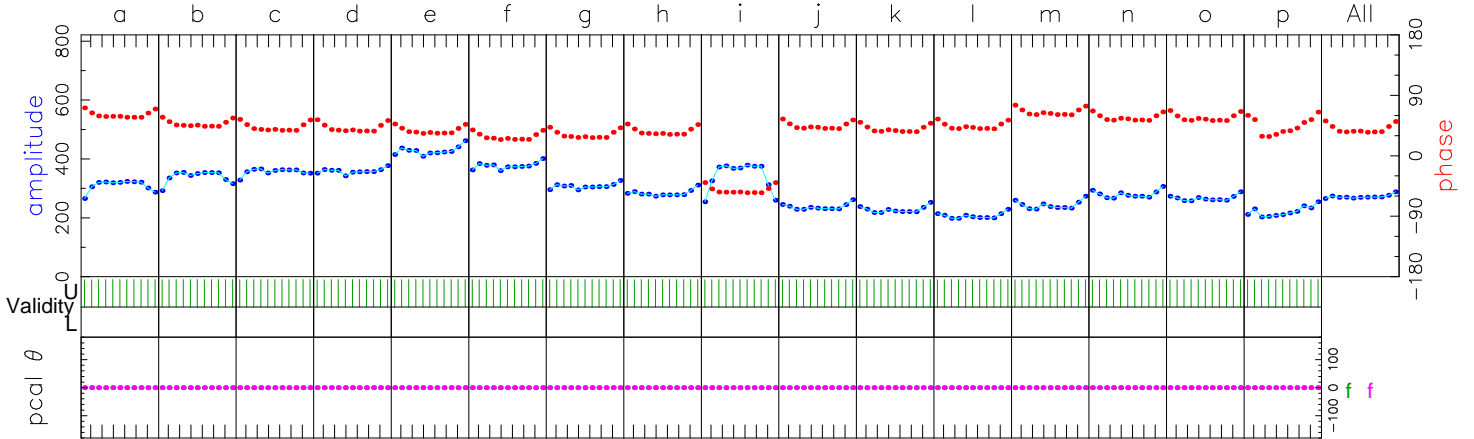
Fringe quality 6

SNR 15170.8
Int time 410.455
Amp 273.828
Phase 40.2
PFD 0.0e+00
Delays (us)
SBD -0.002942
MBD 0.000549
Fringe rate (Hz)
0.000022
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042758
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec

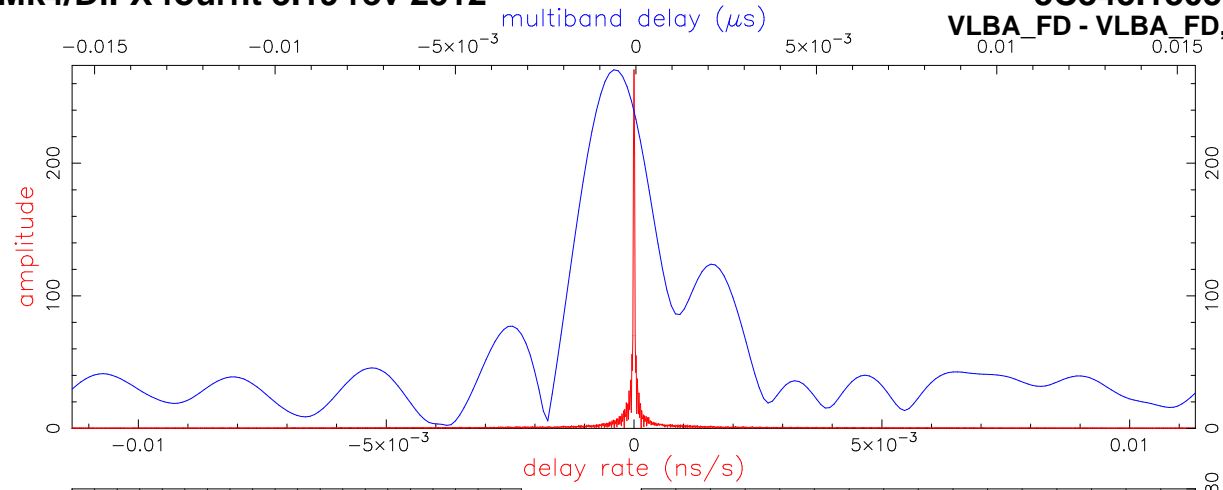


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
Group delay (usec)(sbd)			5.48687500000E-04														5.48687E-04	+/- 7.1E-08
Sband delay (usec)			-2.94250000000E-03														-2.94250E-03	+/- 1.1E-06
Phase delay (usec)			1.29766101429E-06														1.29766E-06	+/- 2.4E-10
Delay rate (us/s)			2.52246512572E-10														2.52247E-10	+/- 1.0E-12
Total phase (deg)					40.2												40.2	+/- 0.0
RMS	6.0	0.0																
ph/seg (deg)	2.3	0.0																
amp/seg (%)	27.3	0.0																
ph/frq (deg)	24.3	0.0																
amp/frq (%)																		
f: az 61.0 el 37.1 pa -78.2																		
f: az 61.0 el 37.1 pa -78.2																		
u,v (fr/asec)	0.000	0.000																
Control file: cf_1234_gmva																		
Input file: /Exps/c192a/v2/1234/No0001/ff..1305JH																		
Output file: /Exps/c192a/v2/1234/No0001/ff.W.129.1305JH																		

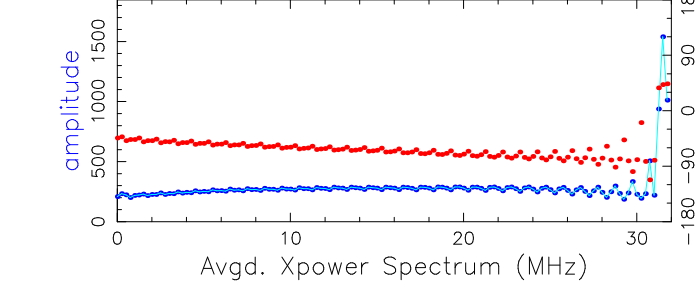
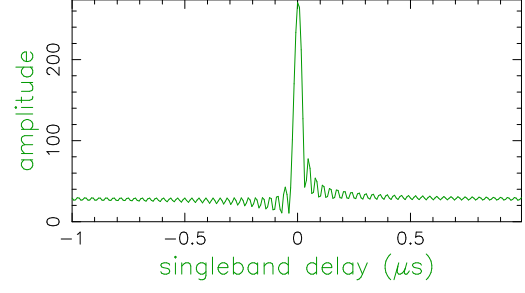
PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

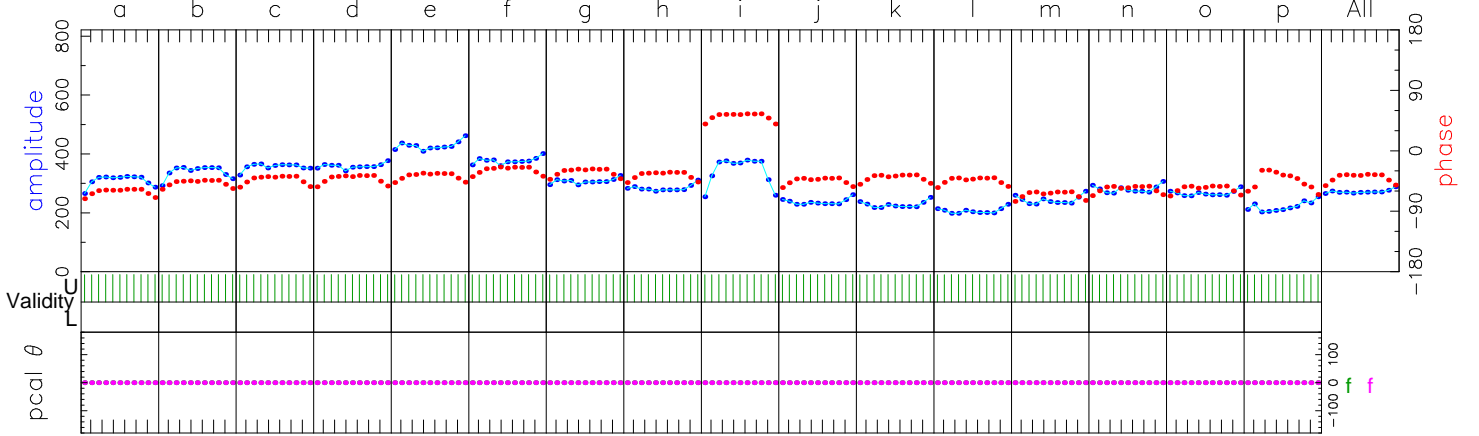
3C345.1305JH, No0001, ff
VLBA_FD - VLBA_FD, fgroup W, pol RL



Fringe quality 6
SNR 15170.8
Int time 410.455
Amp 273.828
Phase -40.2
PFD 0.0e+00
Delays (us)
SBD 0.002942
MBD -0.000549
Fringe rate (Hz)
-0.000022
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042803
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec

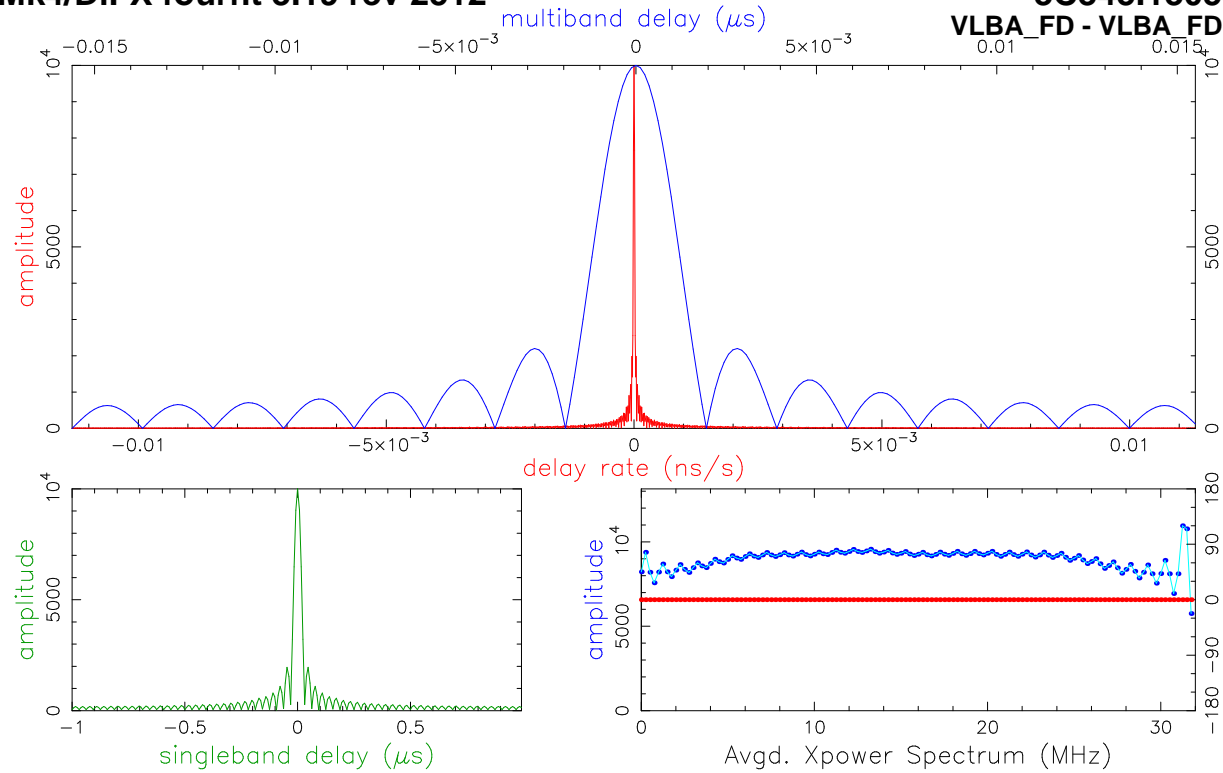


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-61.1	-47.6	-42.7	-41.8	-38.0	-28.8	-31.8	-36.7	51.6	-45.0	-40.3	-44.7	-65.7	-57.3	-57.1	-44.9	Phase	-40.2				
	308.9	338.6	354.7	356.9	426.7	375.6	306.2	282.7	341.4	236.4	227.1	206.2	242.8	279.3	265.6	216.5	Ampl.	297.8				
	129.1	129.0	129.0	129.1	129.2	128.9	128.9	129.2	130.9	128.7	128.9	128.8	129.1	129.0	128.9	130.6	Sbd box	129.4				
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-5.48687500000E-04														Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.48687E-04	+/-	7.1E-08
Sband delay (usec)			2.94250000000E-03														Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	2.94250E-03	+/-	1.1E-06
Phase delay (usec)			-1.29766101446E-06														Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.29766E-06	+/-	2.4E-10
Delay rate (us/s)			-2.52246512572E-10														Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.52247E-10	+/-	1.0E-12
Total phase (deg)																	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-40.2	+/-	0.0

RMS Theor. Amplitude 273.828 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 6.0 0.0 Search (2048X64) 269.662 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 27.3 0.0 Inc. seg. avg. 272.068 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.3 0.0 Inc. frq. avg. 297.845 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 61.0 el 37.1 pa -78.2 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ff..1305JH Output file: /Exps/c192a/v2/1234/No0001/ff.W.149.1305JH

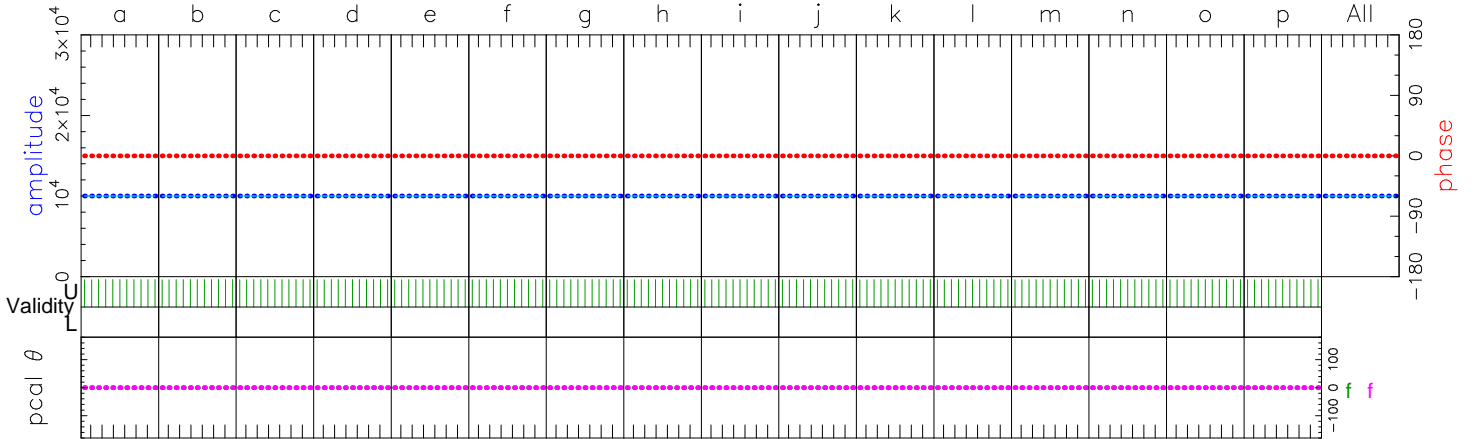
Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, ff
VLBA_FD - VLBA_FD, fgroup W, pol LL



Fringe quality 9
SNR 554026.6
Int time 410.455
Amp 10000.004
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 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042747
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec

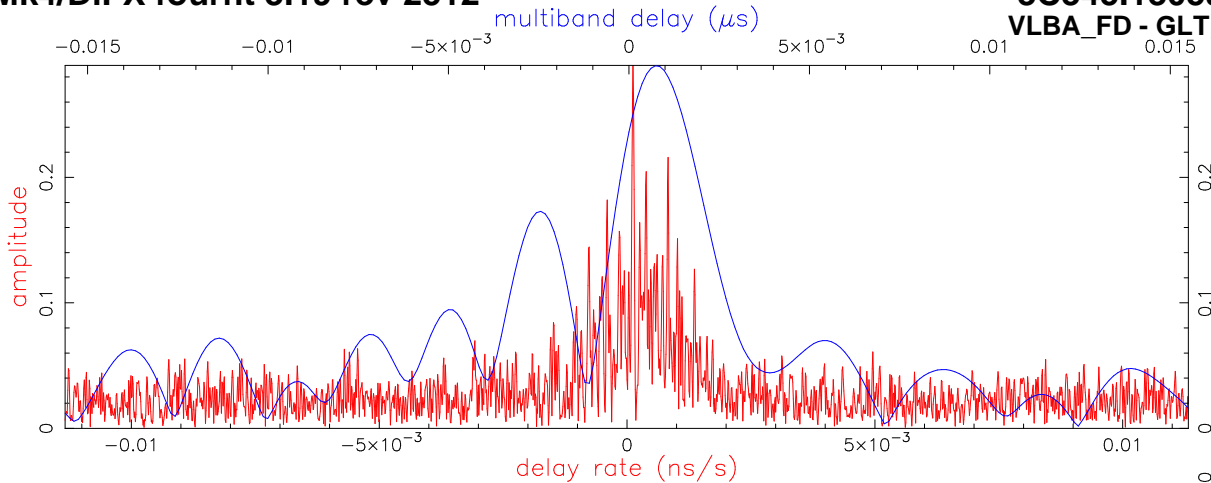


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-0.0	-0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.0		Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0		Ampl.	10000.0
	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0		Sbd box	129.0
UL	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 3.1E-08
 Phase delay (usec) 2.44875772336E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.44876E-20 +/- 6.7E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.8E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

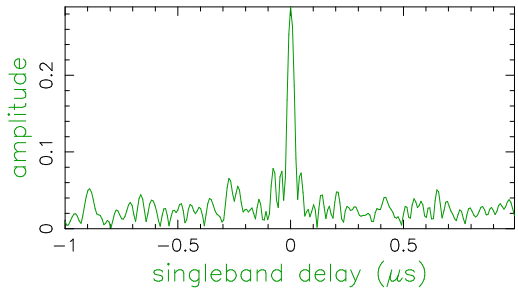
RMS Theor. Amplitude 10000.004 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X64) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 f: az 61.0 el 37.1 pa -78.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ff..1305JH Output file: /Exps/c192a/v2/1234/No0001/ff.W.90.1305JH

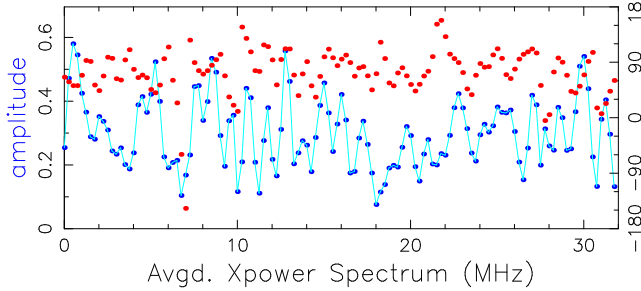


Fringe quality 9

SNR 16.0
Int time 410.360
Amp 0.289
Phase 76.0
PFD 0.0e+00
Delays (us)
SBD 0.000640
MBD 0.000762
Fringe rate (Hz) 0.010541
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

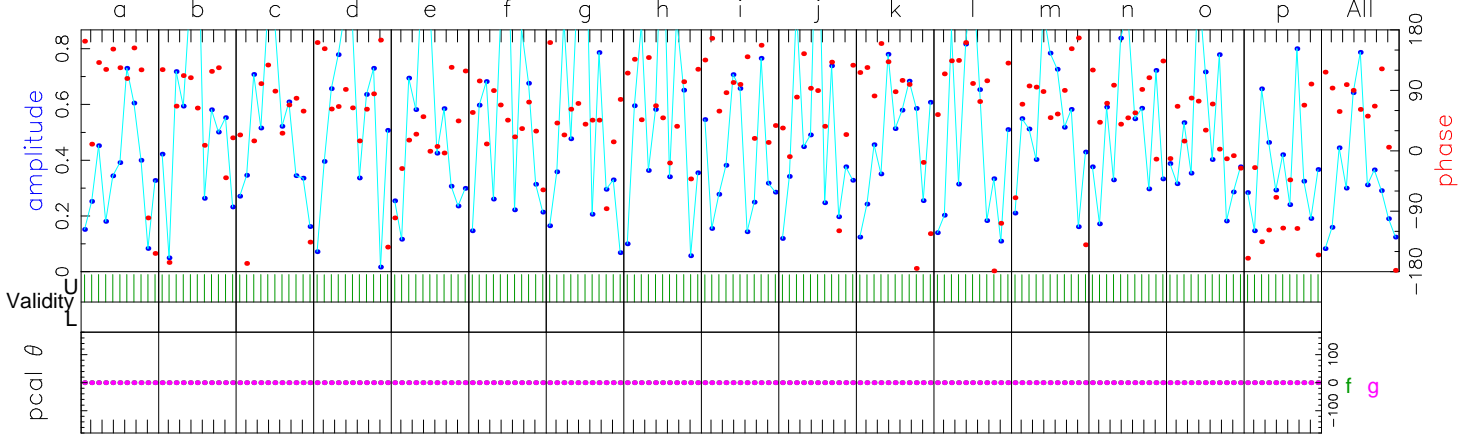


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042753
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks

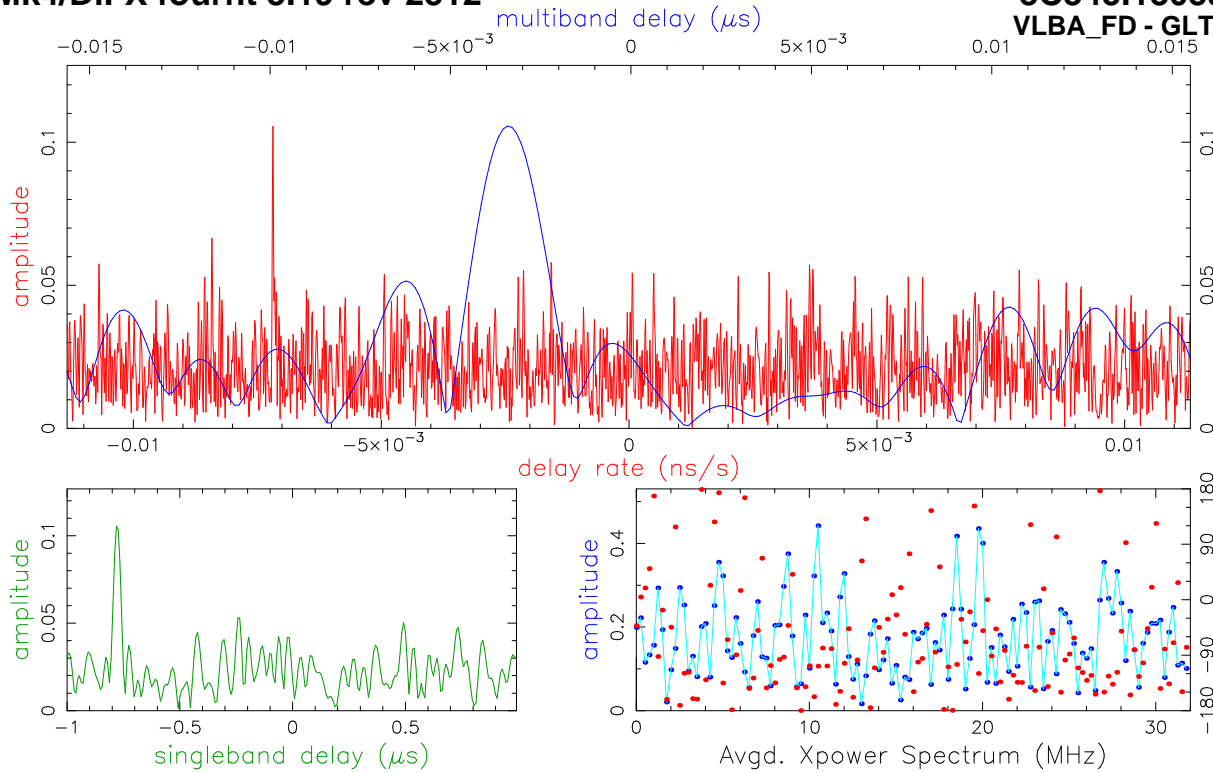
Group delay (usec)(sbd) -3.52708119232E+03 Apriori delay (usec) -3.52708195471E+03 Resid mbdelay (usec) 7.62390E-04 +/- 6.7E-05
 Sband delay (usec) -3.52708131471E+03 Apriori clock (usec) -8.4134048E-01 Resid sbdelay (usec) 6.40000E-04 +/- 1.1E-03
 Phase delay (usec) -3.52708195226E+03 Apriori clockrate (us/s) -1.6594950E-07 Resid phdelay (usec) 2.44993E-06 +/- 2.3E-07
 Delay rate (us/s) 7.90242727019E-01 Apriori rate (us/s) 7.90242604651E-01 Resid rate (us/s) 1.22369E-07 +/- 9.7E-10
 Total phase (deg) -132.3 Apriori accel (us/s/s) -1.47175634827E-05 Resid phase (deg) 76.0 +/- 7.2

RMS Theor. Amplitude 0.289 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 45.0 11.9 Search (2048X64) 0.283 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.7 20.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 55.2 14.3 Inc. seg. avg. 0.329 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 35.5 25.0 Inc. frq. avg. 0.357 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) -5920.965 -4047.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fg..1305JH Output file: /Exps/c192a/v2/1234/No0001/fg.W.109.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fg
VLBA_FD - GLT, fgroup W, pol LR

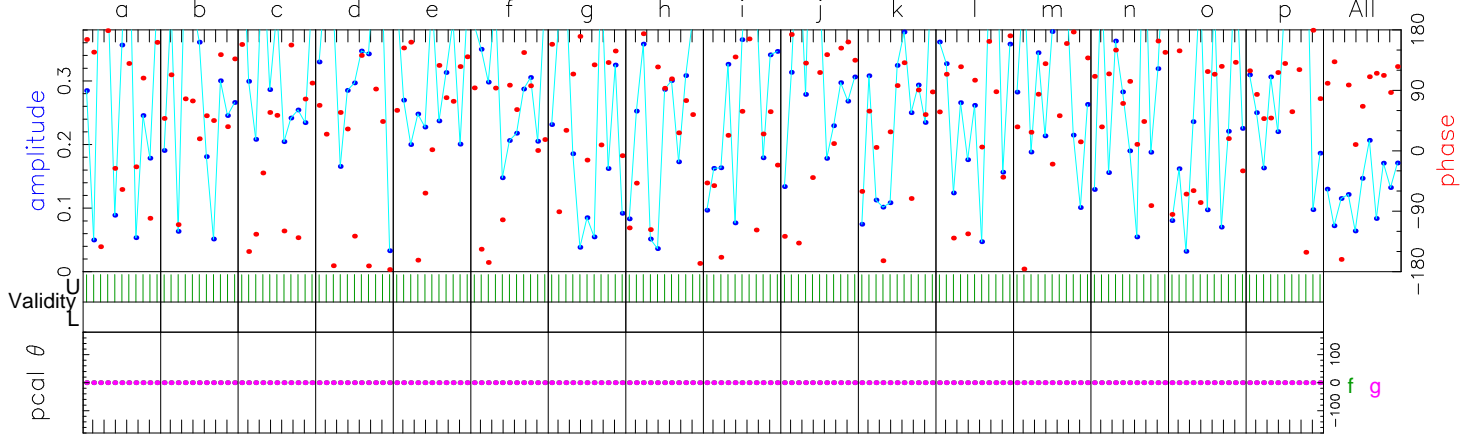


Fringe quality 0

SNR 5.9
Int time 410.360
Amp 0.127
Phase 107.0
PFD 5.7e-01
Delays (us)
SBD -0.778225
MBD -0.003341
Fringe rate (Hz)
-0.619837
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042759
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec

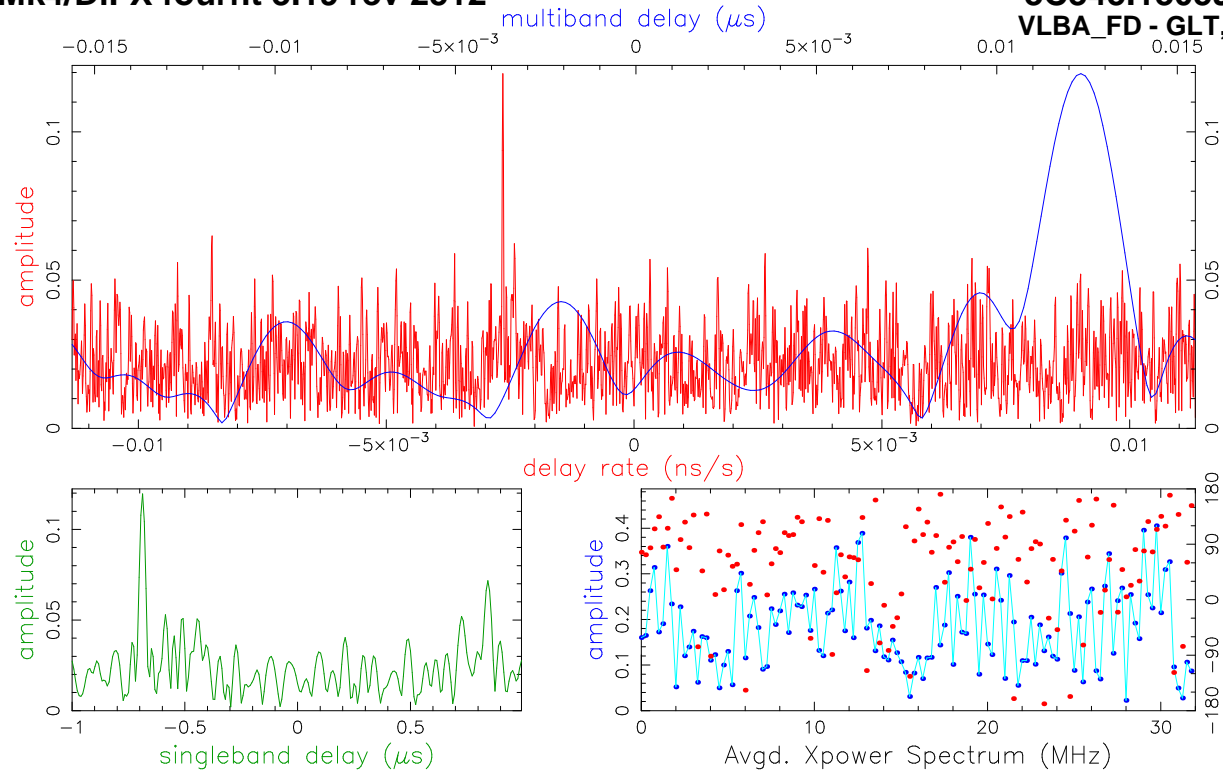


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
Group delay (usec)(sbd)			-3.52786654523E+03															
Sband delay (usec)			-3.52786018021E+03															
Phase delay (usec)			-3.52708195126E+03															
Delay rate (us/s)			7.90235408955E-01															
Total phase (deg)					-101.3													
Apriori delay (usec)																		
Apriori clock (usec)																		
Apriori clockrate (us/s)																		
Apriori rate (us/s)																		
Apriori accel (us/s/s)																		
Resid mbdelay (usec)																		
Resid sbdelay (usec)																		
Resid phdelay (usec)																		
Resid rate (us/s)																		
Resid phase (deg)																		
PCal mode: MANUAL, MANUAL																		
PCal rate: 0.000E+00, 0.000E+00 (us/s)																		
sb window (us)																		
Bits/sample: 2x2																		
SampCntNorm: enabled																		
Sample rate(MISamp/s): 64																		
Data rate(Mb/s): 2048																		
nlags: 128																		
t_cohere infinite																		
ion window (TEC)																		
simultaneous interpolator																		

ph/seg (deg) 43.9 32.1 Search (2048X64) 0.105 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 44.5 56.0 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 38.4 38.7 Inc. seg. avg. 0.132 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 50.8 67.6 Inc. frq. avg. 0.119 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 61.0 el 37.1 pa -78.2 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) -5920.965 -4047.708 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fg..1305JH Output file: /Exps/c192a/v2/1234/No0001/fg.W.131.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fg
VLBA_FD - GLT, fgroup W, pol RL

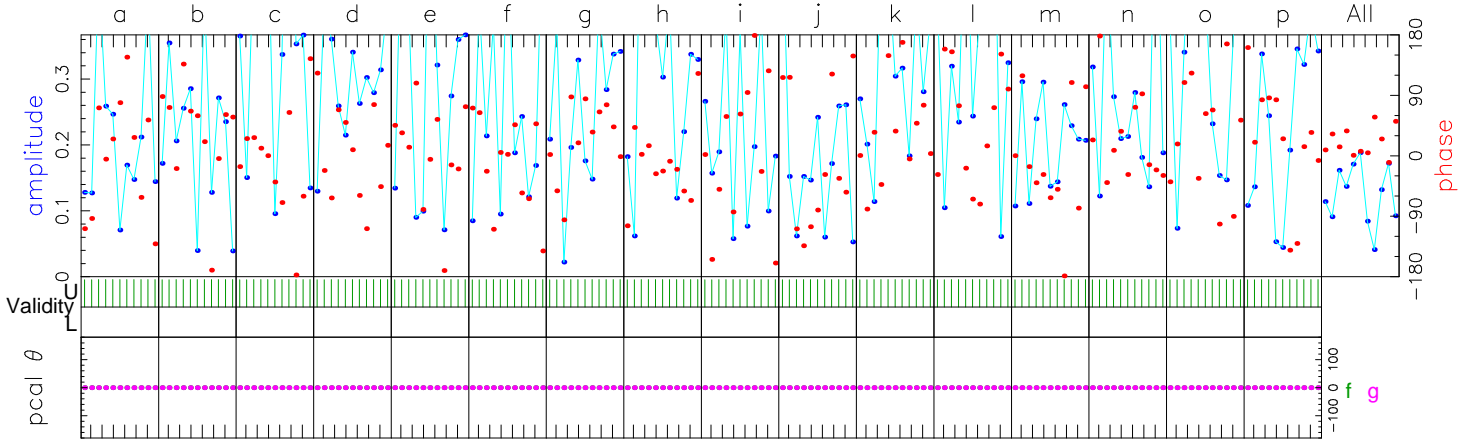


Fringe quality 0

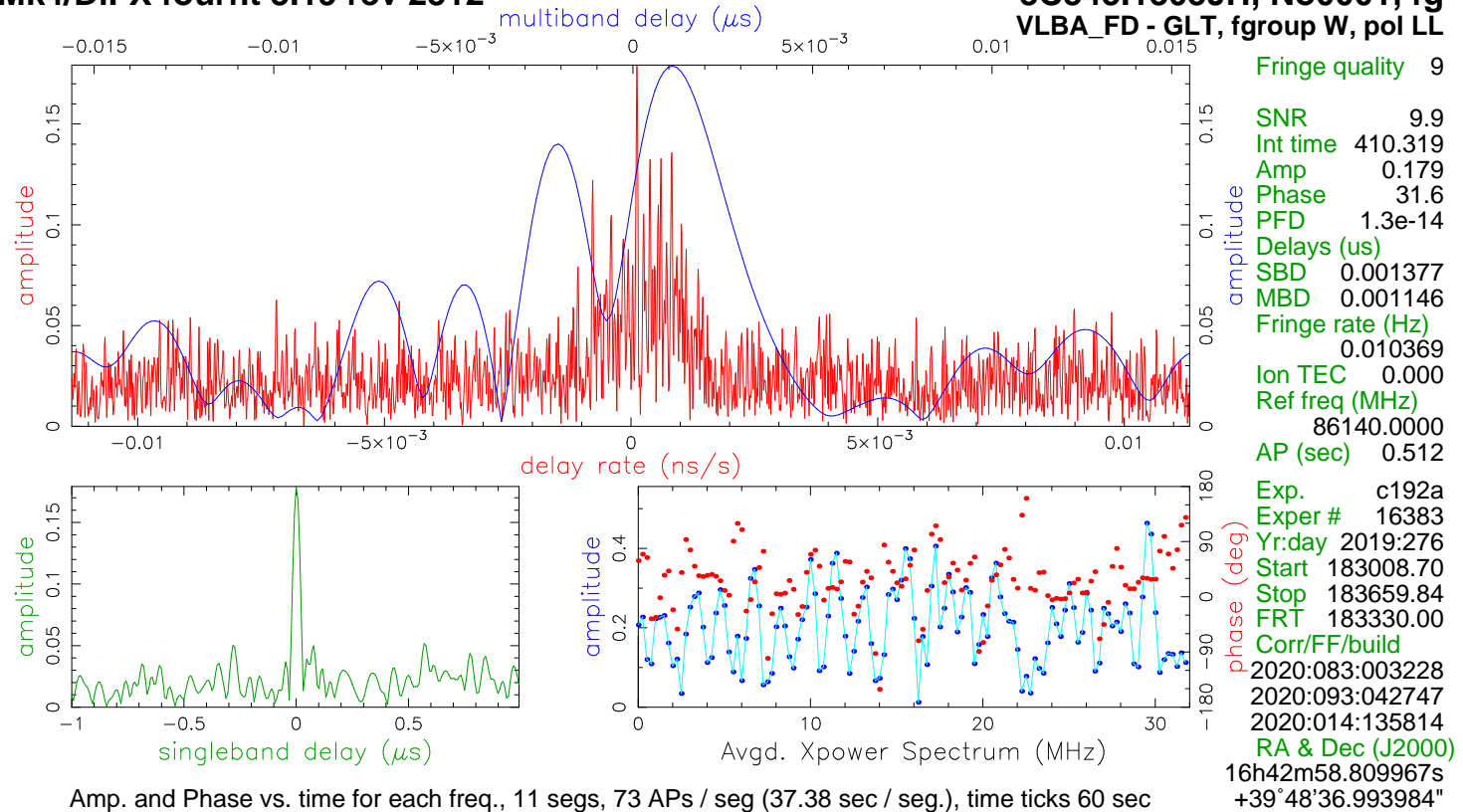
SNR 6.6
Int time 410.319
Amp 0.122
Phase 15.5
PFD 9.7e-03
Delays (us)
SBD -0.688020
MBD 0.012317
Fringe rate (Hz)
-0.228472
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042804
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

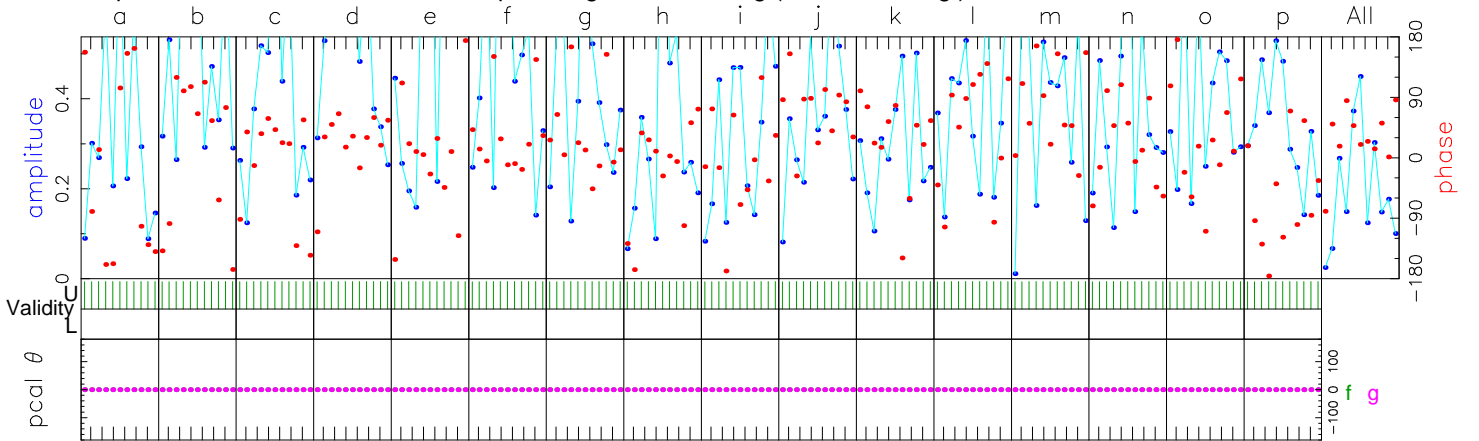
Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
33.3	53.4	8.5	-8.4	19.0	-21.2	33.0	-13.0	31.0	-136.1	27.9	19.2	-15.2	-0.9	51.1	39.4	39.4	Phase	15.5
0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.0	0.1	0.1	0.0	0.2	0.1	0.1	0.1	Ampl.	0.1
135.1	230.7	75.0	96.3	39.5	163.6	191.8	40.1	243.0	95.3	54.0	94.6	237.9	148.1	71.9	199.0	199.0	Sbd box	40.9
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC phase	
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
Group delay (usec)(sbd)	-3.52775713780E+03			Apriori delay (usec)			-3.52708195471E+03			Resid mbdelay (usec)			1.23169E-02			+/- 1.6E-04		
Sband delay (usec)	-3.52776997421E+03			Apriori clock (usec)			-8.4134048E-01			Resid sbdelay (usec)			-6.88020E-01			+/- 2.6E-03		
Phase delay (usec)	-3.52708195421E+03			Apriori clockrate (us/s)			-1.6594950E-07			Resid phdelay (usec)			4.98446E-07			+/- 5.6E-07		
Delay rate (us/s)	7.90239952314E-01			Apriori rate (us/s)			7.90242604651E-01			Resid rate (us/s)			-2.65234E-06			+/- 2.3E-09		
Total phase (deg)	-192.9			Apriori accel (us/s/s)			-1.47175634827E-05			Resid phase (deg)			15.5			+/- 17.3		
ph/seg (deg)	RMS	Theor.	Amplitude			0.122 +/- 0.018			Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5						
amp/seg (%)	21.3	28.7	Search (2048X64)			0.111			Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)			-1.000 1.000			
ph/frq (deg)	36.8	50.0	Interp.			0.000			Bits/sample: 2x2			SampCntNorm: enabled			mb window (us)		-0.016 0.016	
amp/frq (%)	47.3	34.6	Inc. seg. avg.			0.115			Sample rate(MISamp/s): 64			Data rate(Mb/s): 2048			dr window (ns/s)		-0.011 0.011	
	55.3	60.3	Inc. frq. avg.			0.113			nlags: 128			t_cohere infinite			ion window (TEC)		0.00 0.00	
f: az 61.0 el 37.1 pa -78.2	g: az 142.5 el 51.0 pa -10.6			u,v (fr/asec)			-5920.965 -4047.708									simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c192a/v2/1234/No0001/fg..1305JH			Output file: /Exps/c192a/v2/1234/No0001/fg.W.152.1305JH														

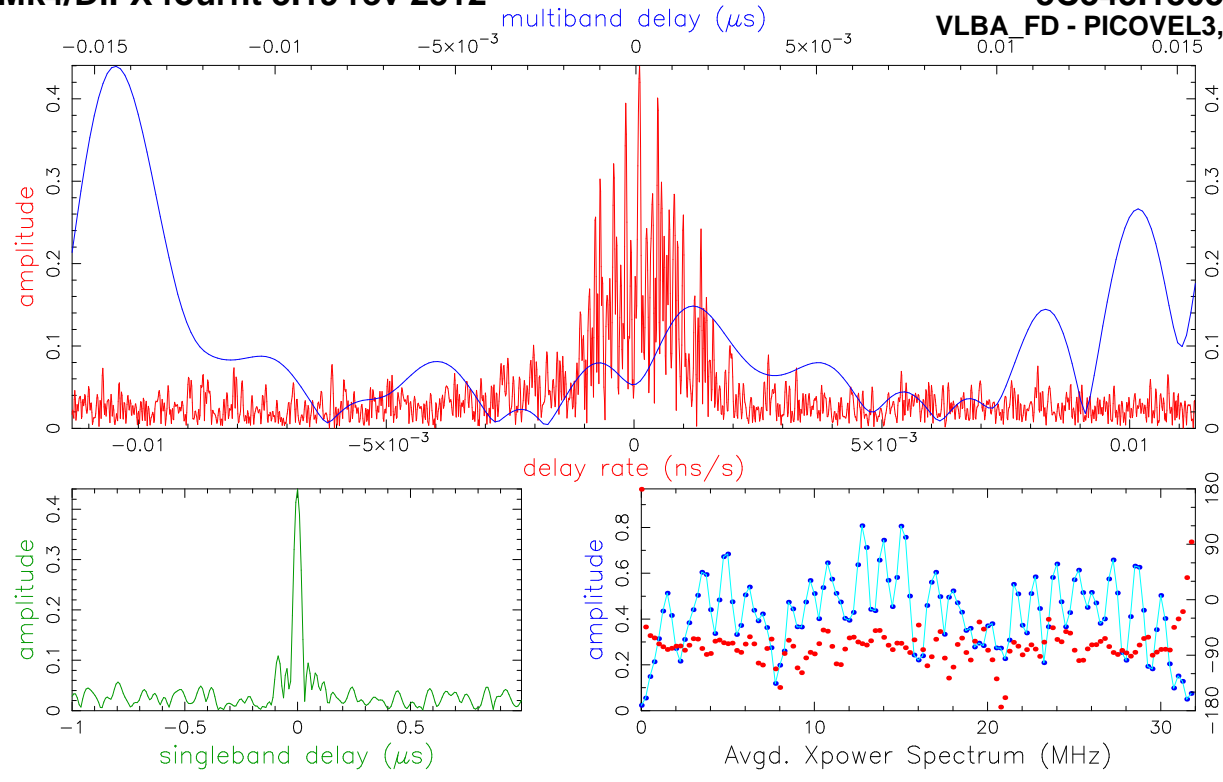


Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)		-3.52708080904E+03																
Sband delay (usec)		-3.52708057821E+03																
Phase delay (usec)		-3.52708195369E+03																
Delay rate (us/s)		7.90242725021E-01																
Total phase (deg)					-176.8													
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): 64																		
Data rate(Mb/s): 2048																		
nlags: 128																		
t_cohere infinite																		
ion window (TEC)																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		
ion window (TEC)																		

ph/seg (deg) 43.4 19.1 Search (2048X64) 0.178 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.6 33.4 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 62.0 23.1 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 60.2 40.3 Inc. frq. avg. 0.229 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 g: az 142.5 el 51.0 pa -10.6 u,v (fr/asec) -5920.965 -4047.708 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fg..1305JH Output file: /Exps/c192a/v2/1234/No0001/fg.W.89.1305JH

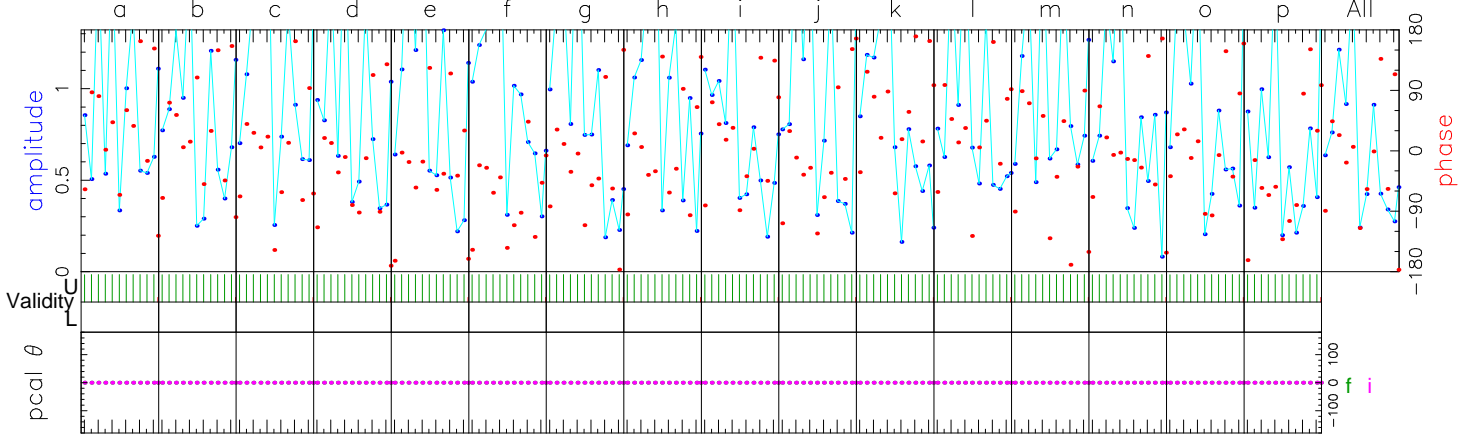


Fringe quality 6

SNR 21.3
Int time 314.018
Amp 0.441
Phase -0.8
PFD 0.0e+00
Delays (us)
SBD -0.001268
MBD -0.014431
Fringe rate (Hz) 0.009246
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042752
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

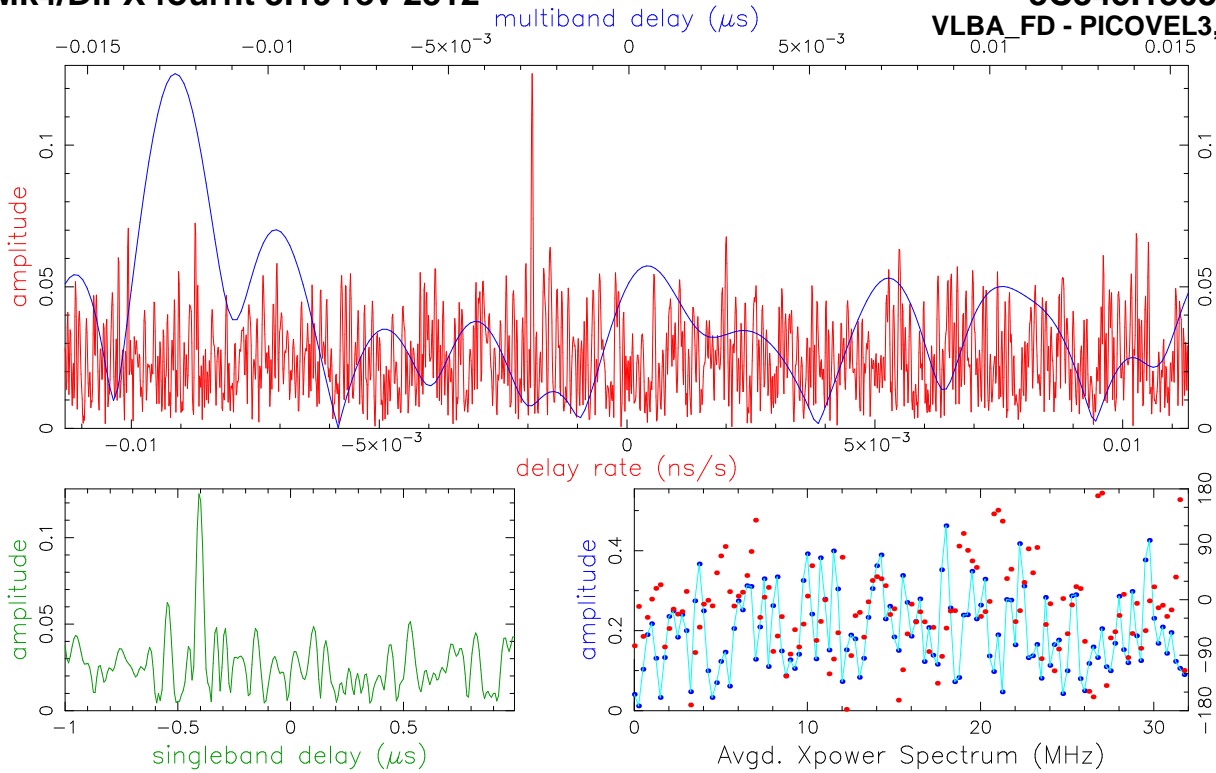


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fj	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
Group delay (usec)(sbd)			-5.69726794739E+03															
Sband delay (usec)			-5.69725478441E+03															
Phase delay (usec)			-5.69725351593E+03															
Delay rate (us/s)			1.48892330115E+00															
Total phase (deg)																		
Apriori delay (usec)																		
Apriori clock (usec)																		
Apriori clockrate (us/s)																		
Apriori rate (us/s)																		
Apriori accel (us/s/s)																		
Resid mbdelay (usec)																		
Resid sbdelay (usec)																		
Resid phdelay (usec)																		
Resid rate (us/s)																		
Resid phase (deg)																		
Pcal mode: MANUAL, MANUAL																		
Pcal rate: 0.000E+00, 0.000E+00 (us/s)																		
Bits/sample: 2x2																		
Sample rate(MISamp/s): 64																		
Data rate(Mb/s): 2048																		
PCal period (AP's) 5, 5																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		
ion window (TEC)																		

ph/seg (deg) 77.6 9.3 Search (2048X64) 0.430 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 111.6 16.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.3 10.7 Inc. seg. avg. 0.695 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 35.1 18.7 Inc. frq. avg. 0.536 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 61.0 el 37.1 pa -78.2 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fi..1305JH Output file: /Exps/c192a/v2/1234/No0001/fi.W.106.1305JH simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fi
VLBA_FD - PICOVEL3, fgroup W, pol LR

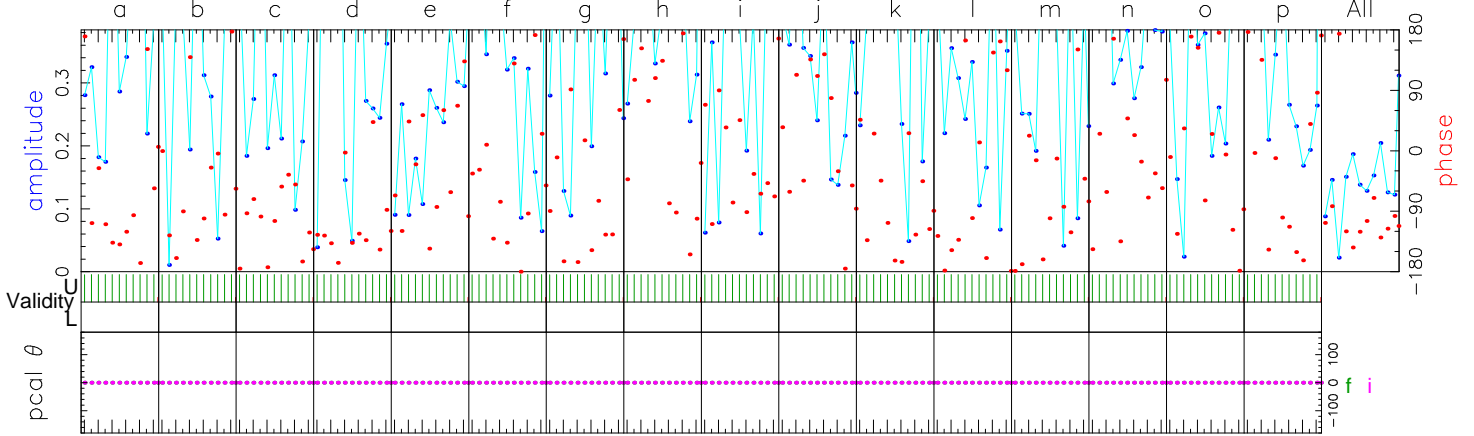


Fringe quality 0

SNR 6.1
Int time 314.018
Amp 0.128
Phase -112.0
PFD 2.0e-01
Delays (us)
SBD -0.403662
MBD -0.012568
Fringe rate (Hz)
-0.164873
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042757
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

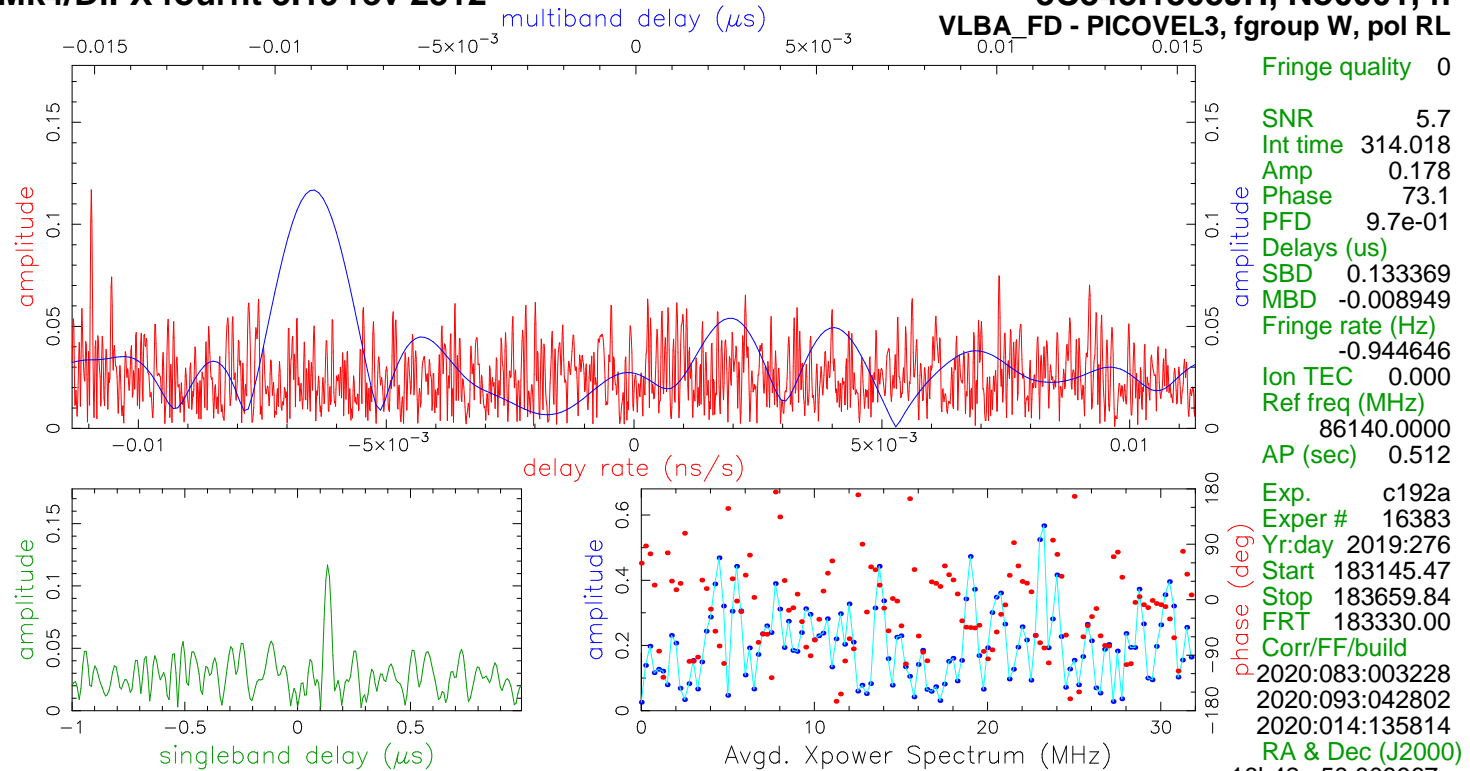


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-127.9	-110.6	-103.8	-133.2	-60.2	-76.5	-81.8	174.6	-48.5	95.9	-107.0	-169.1	-107.8	-59.2	-141.3	-153.6	Phase	-112.0				
	0.3	0.2	0.3	0.3	0.0	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1				
	77.3	102.4	6.0	236.9	86.6	55.1	158.7	142.6	182.8	167.1	197.3	21.1	225.8	4.3	88.1	157.1	Sbd box	77.3				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-5.69767233425E+03														Apriori delay (usec)	-5.69725351591E+03	Resid mbdelay (usec)	-1.25683E-02	+/-	1.8E-04
Sband delay (usec)			-5.69765717791E+03														Apriori clock (usec)	9.4374943E-01	Resid sbdelay (usec)	-4.03662E-01	+/-	2.8E-03
Phase delay (usec)			-5.69725351952E+03														Apriori clockrate (us/s)	2.6205050E-07	Resid phdelay (usec)	-3.61034E-06	+/-	6.0E-07
Delay rate (us/s)			1.48892127980E+00														Apriori rate (us/s)	1.48892319381E+00	Resid rate (us/s)	-1.91401E-06	+/-	3.3E-09
Total phase (deg)																	Apriori accel (us/s/s)	2.35697441985E-05	Resid phase (deg)	-112.0	+/-	18.7

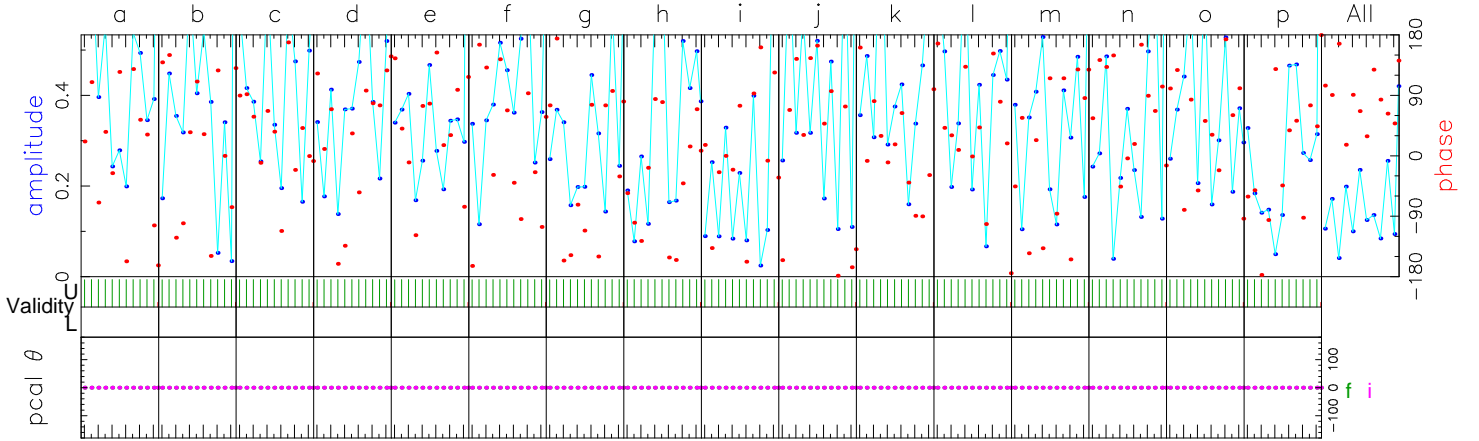
ph/seg (deg) 29.7 32.3 Search (2048X64) 0.123 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 40.6 56.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 57.9 37.3 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 64.1 65.2 Inc. frq. avg. 0.136 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 i: 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/v2/1234/No0001/fi..1305JH Output file: /Exps/c192a/v2/1234/No0001/fi.W.127.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fi
VLBA_FD - PICOVEL3, fgroup W, pol RL

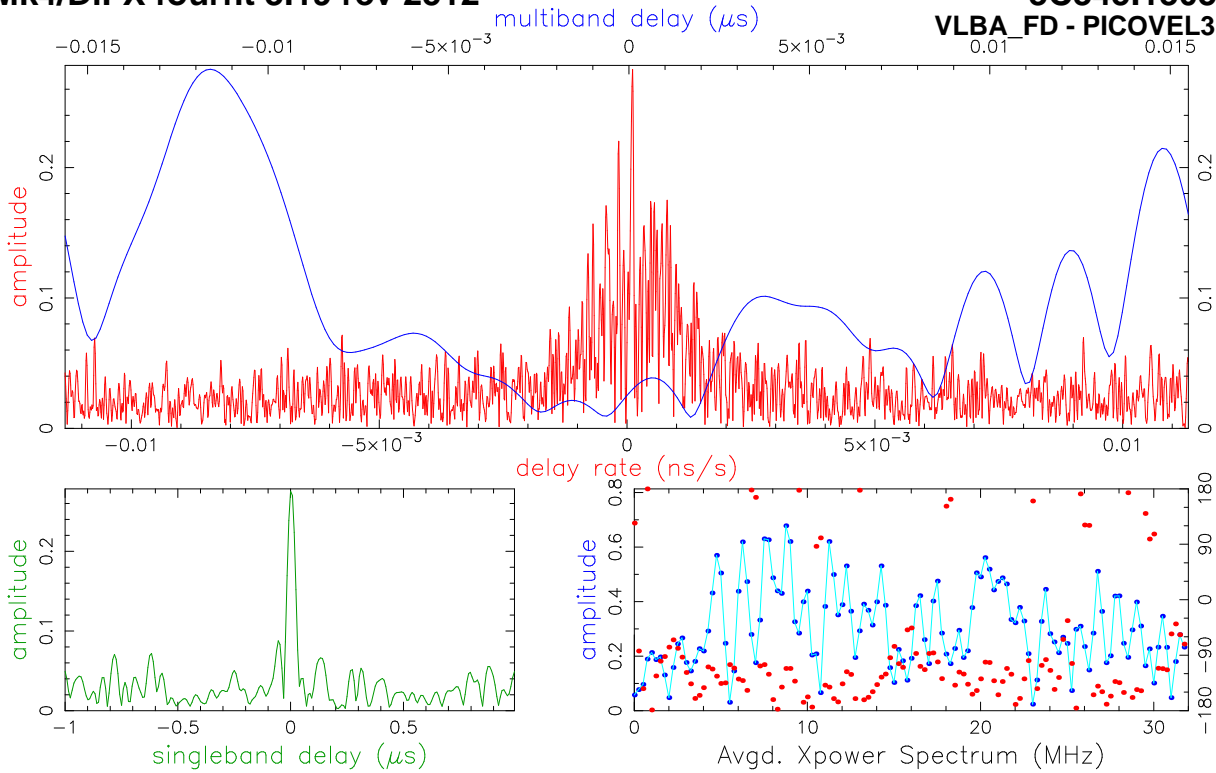


Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
fj	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)		-5.69710621444E+03																
Sband delay (usec)		-5.69712014741E+03																
Phase delay (usec)		-5.69725351355E+03																
Delay rate (us/s)		1.48891222741E+00																
Total phase (deg)					-236.6													
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)																		
PCal mode: MANUAL, MANUAL																		
PCal rate: 0.000E+00, 0.000E+00 (us/s)																		
Bits/sample: 2x2																		
Sample rate(MISamp/s): 64																		
Data rate(Mb/s): 2048																		
nlags: 128																		
t_cohere infinite																		
ion window (TEC)																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		
ion window (TEC)																		

ph/seg (deg) 42.5 35.0 Search (2048X64) 0.113 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.9 61.1 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.9 40.4 Inc. seg. avg. 0.186 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 56.4 70.6 Inc. frq. avg. 0.175 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 i: 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/v2/1234/No0001/fi..1305JH Output file: /Exps/c192a/v2/1234/No0001/fi.W.145.1305JH

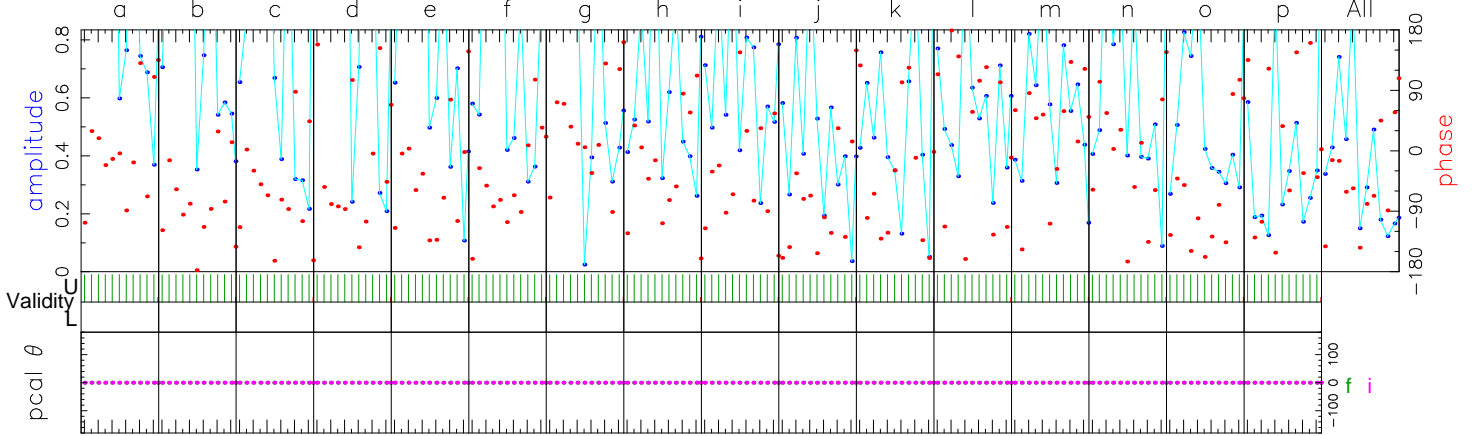


Fringe quality 9

SNR 13.5
Int time 314.018
Amp 0.278
Phase -50.1
PFD 1.1e-32
Delays (us)
SBD 0.002903
MBD -0.011569
Fringe rate (Hz) 0.009534
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042748
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

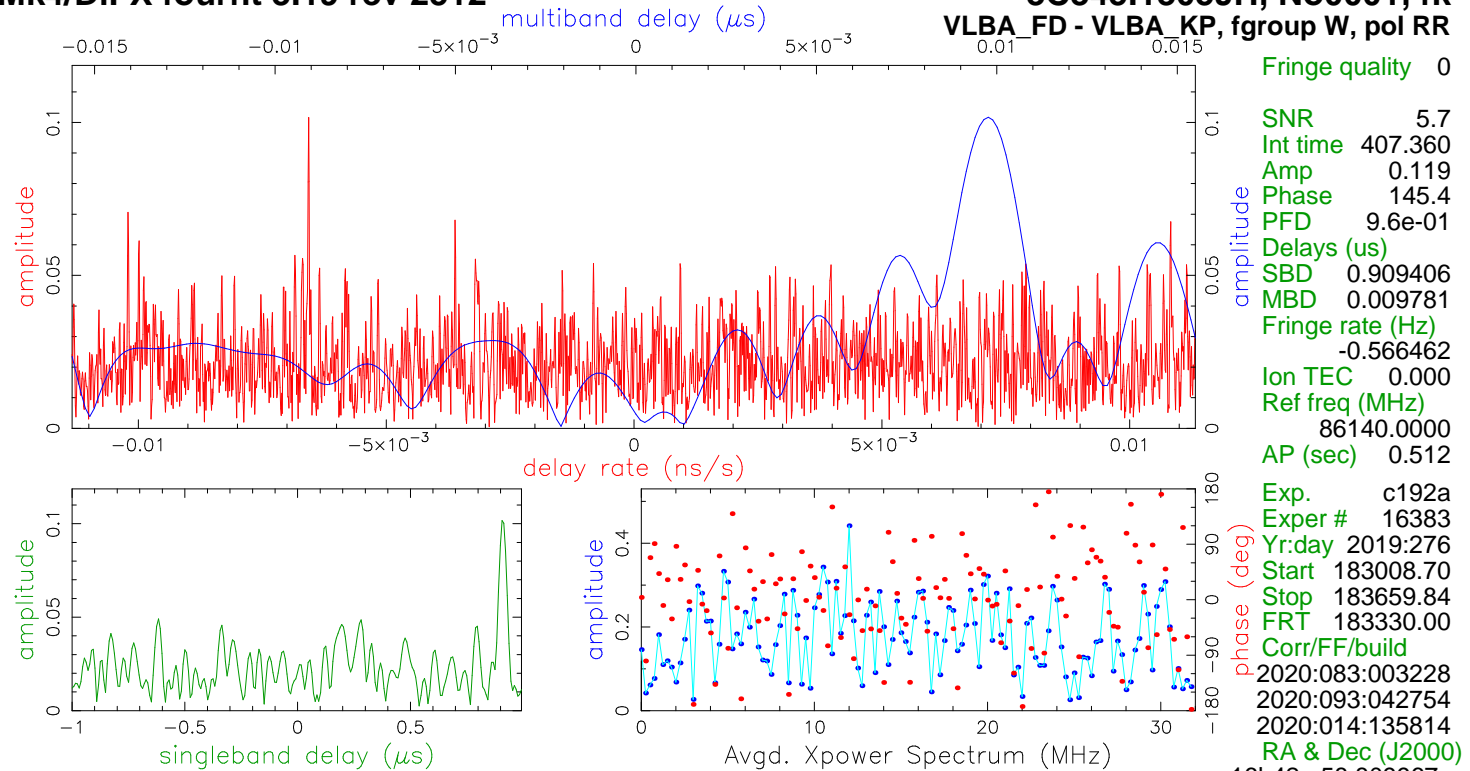


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-9.0	-72.3	-62.7	-85.7	-45.9	-60.5	34.1	-20.3	-51.0	-95.8	-91.4	147.0	64.1	9.1	-107.3	-162.2		Phase	-50.1
	0.7	0.8	0.6	0.7	0.6	0.5	0.4	0.3	0.4	0.3	0.1	0.3	0.3	0.3	0.3	0.1		Ampl.	0.4
	128.1	129.2	129.0	128.9	129.6	129.4	129.2	128.6	128.6	74.6	182.8	129.3	129.3	129.6	129.5	126.0		Sbd box	129.4
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase	
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	

Group delay (usec)(sbd) -5.69726508474E+03 Apriori delay (usec) -5.69725351591E+03 Resid mbdelay (usec) -1.15688E-02 +/- 8.0E-05
 Sband delay (usec) -5.69725061291E+03 Apriori clock (usec) 9.4374943E-01 Resid sbdelay (usec) 2.90300E-03 +/- 1.3E-03
 Phase delay (usec) -5.69725351752E+03 Apriori clockrate (us/s) 2.6205050E-07 Resid phdelay (usec) -1.61680E-06 +/- 2.7E-07
 Delay rate (us/s) 1.48892330449E+00 Apriori rate (us/s) 1.48892319381E+00 Resid rate (us/s) 1.10677E-07 +/- 1.5E-09
 Total phase (deg) -359.8 Apriori accel (us/s/s) 2.35697441985E-05 Resid phase (deg) -50.1 +/- 8.5

RMS Theor. Amplitude 0.278 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 65.1 14.7 Search (2048X64) 0.275 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 99.8 25.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 72.9 17.0 Inc. seg. avg. 0.379 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 89.6 29.7 Inc. frq. avg. 0.407 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 i: 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/v2/1234/No0001/fi..1305JH Output file: /Exps/c192a/v2/1234/No0001/fi.W.91.1305JH



Fringe quality 0

SNR 5.7

Int time 407.360

Amp 0.119

Phase 145.4

PFD 9.6e-01

Delays (us)

SBD 0.909406

MBD 0.009781

Fringe rate (Hz)

-0.566462

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183008.70

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:083:003228

2020:093:042754

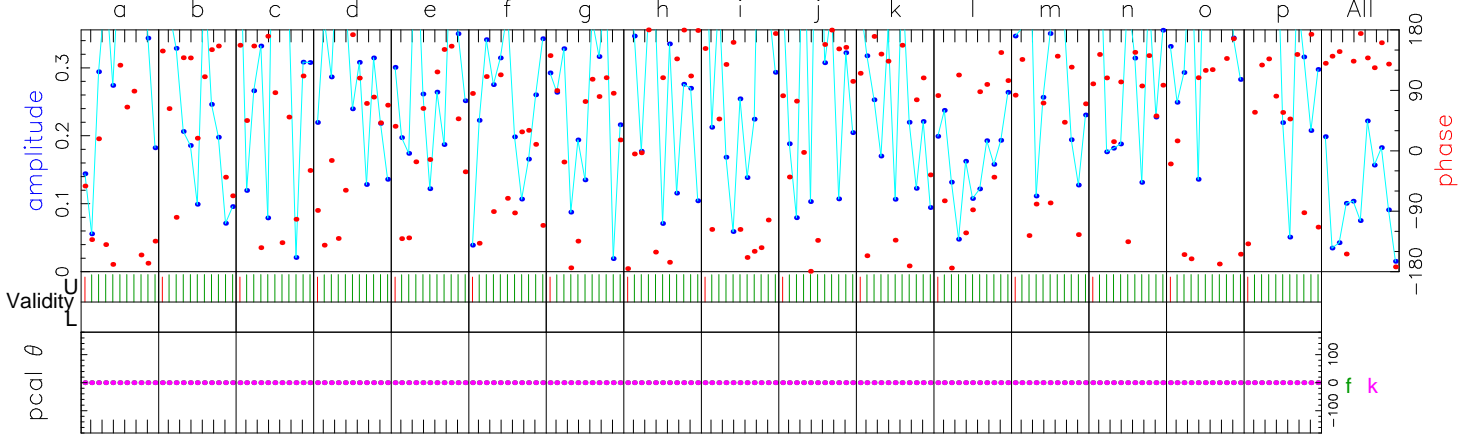
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	156.0	133.3	135.4	-122.2	54.0	-80.1	92.2	177.7	-159.2	163.6	151.6	131.0	128.0	120.3	157.4	132.7	Phase	145.4
	0.1	0.2	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.0	0.1	0.3	0.3	0.2	Ampl.	0.1
	55.3	24.3	191.7	152.7	199.3	175.6	105.6	183.4	2.0	181.3	151.5	218.3	121.1	245.8	245.8	220.6	Sbd box	245.4
U/L	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	802/0	802/0	802/0	802/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	1.54233354534E+03			Apriori delay (usec)			1.54141751422E+03			Resid mbdelay (usec)			9.78112E-03			+/- 1.9E-04		
Sband delay (usec)	1.54232692022E+03			Apriori clock (usec)			8.5670185E-01			Resid sbdelay (usec)			9.09406E-01			+/- 3.0E-03		
Phase delay (usec)	1.54141751891E+03			Apriori clockrate (us/s)			1.0362949E-07			Resid phdelay (usec)			4.68976E-06			+/- 6.5E-07		
Delay rate (us/s)	-3.76621001081E-02			Apriori rate (us/s)			-3.76555240401E-02			Resid rate (us/s)			-6.57607E-06			+/- 2.7E-09		
Total phase (deg)	28.3			Apriori accel (us/s/s)			-9.61461128275E-06			Resid phase (deg)			145.4			+/- 20.2		

ph/seg (deg) RMS Theor. Amplitude 0.119 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 26.7 33.4 Search (2048X64) 0.099 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

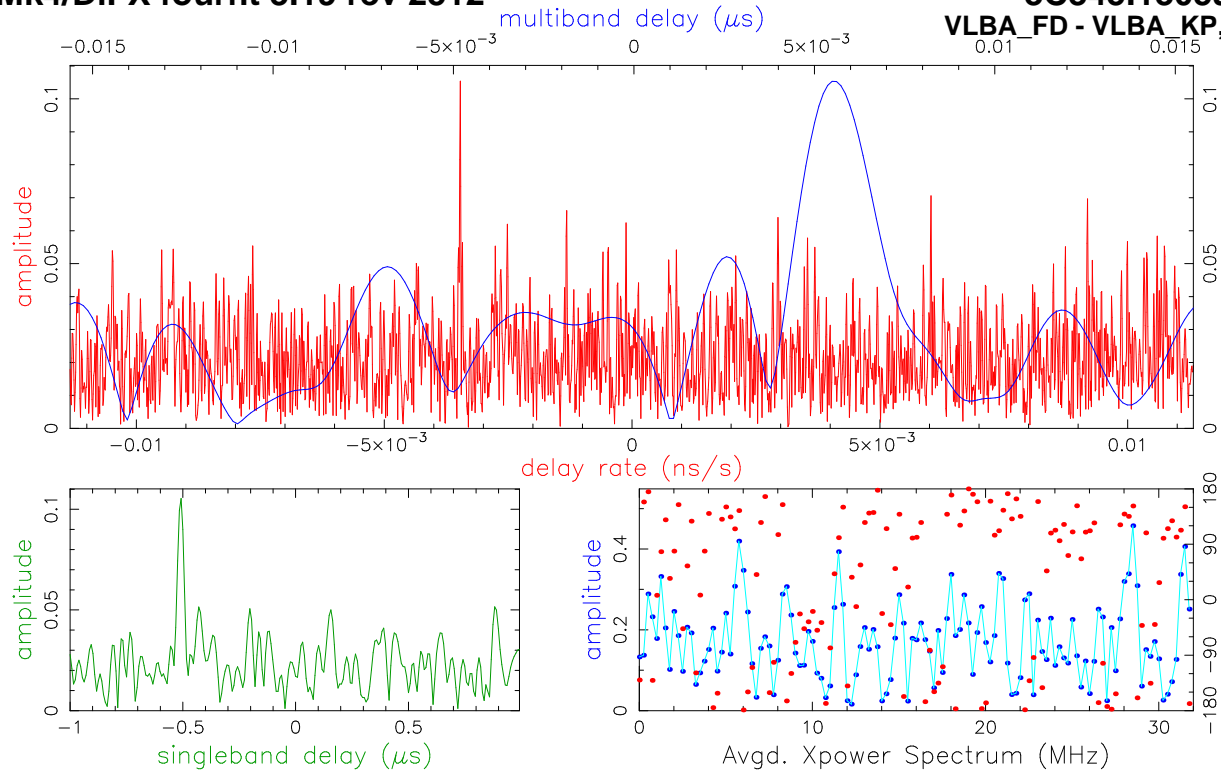
ph/frq (deg) 64.9 58.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 56.1 40.4 Inc. seg. avg. 0.109 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011

amp/frq (%) 63.3 70.4 Inc. frq. avg. 0.115 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 263.798 -766.247 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fk..1305JH Output file: /Exps/c192a/v2/1234/No0001/fk.W.114.1305JH

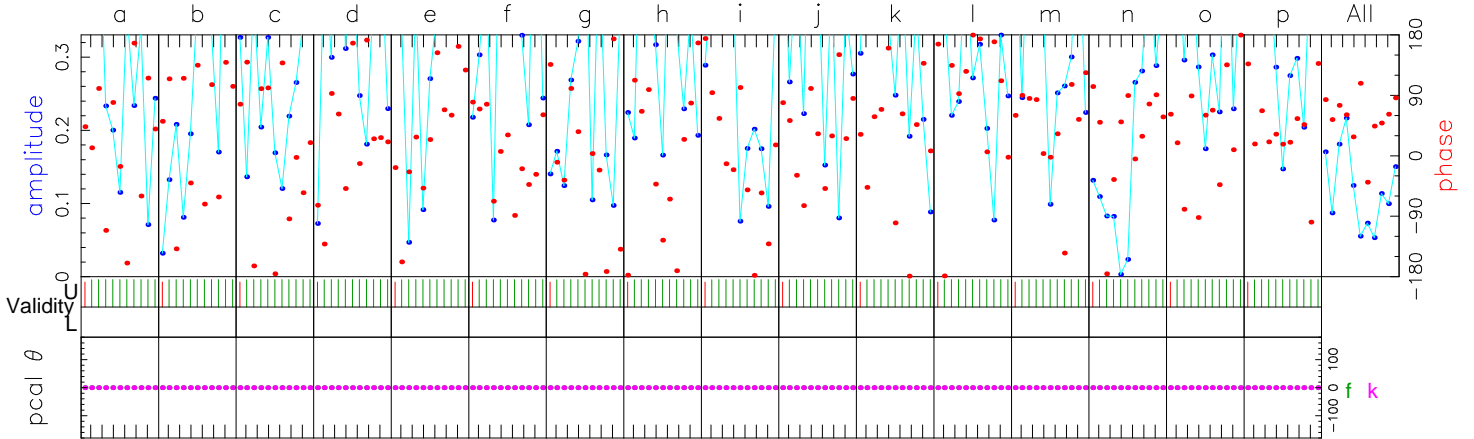


Fringe quality 0

SNR 5.8
Int time 407.360
Amp 0.110
Phase 61.9
PFD 7.1e-01
Delays (us)
SBD -0.509564
MBD 0.005524
Fringe rate (Hz)
-0.299088
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042759
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



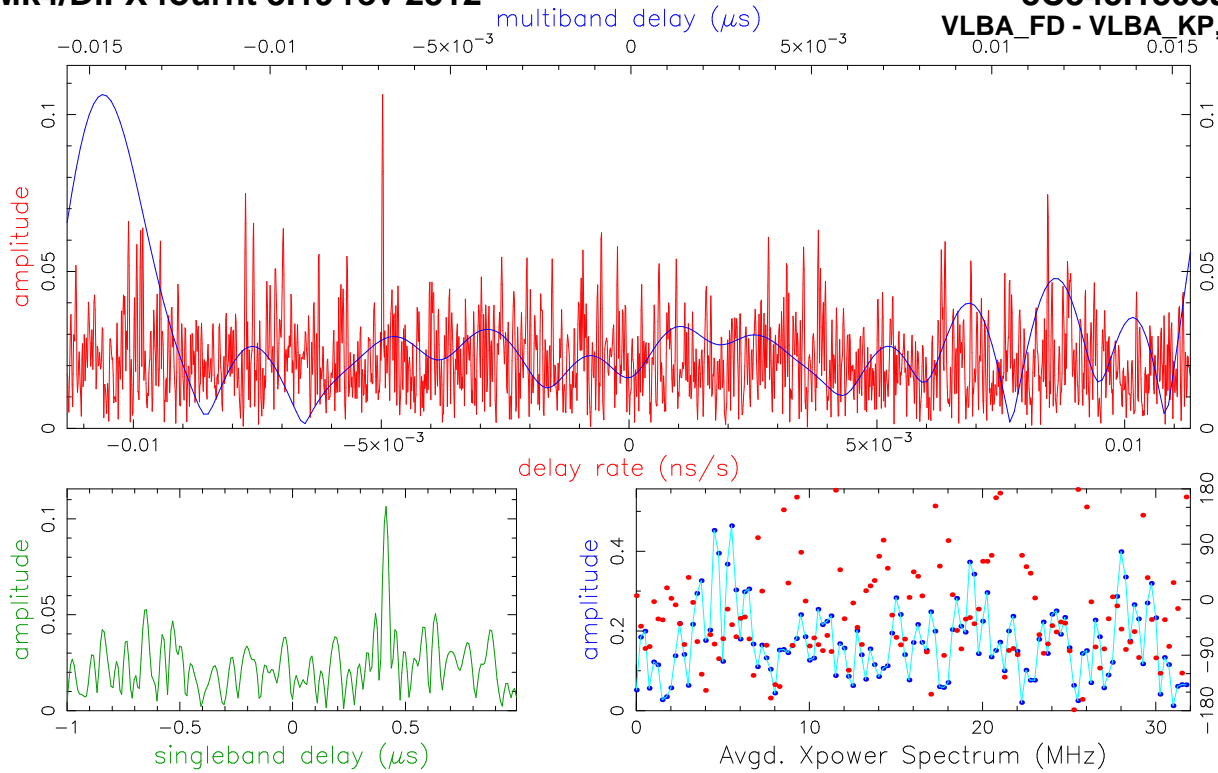
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	801/0	802/0	802/0	802/0	802/0		APs used
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks
Group delay (usec)(sbd)		1.54092303786E+03								1.54141751422E+03							5.52364E-03	+/- 1.8E-04
Sband delay (usec)		1.54090795072E+03								8.5670185E-01							-5.09564E-01	+/- 2.9E-03
Phase delay (usec)		1.54141751621E+03								1.0362949E-07							1.99767E-06	+/- 6.3E-07
Delay rate (us/s)		-3.76589961510E-02								-3.76555240401E-02							-3.47211E-06	+/- 2.7E-09
Total phase (deg)					304.8					-9.61461128275E-06							61.9	+/- 19.6
ph/seg (deg)	RMS	Theor.	Amplitude		0.110 +/- 0.019		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000		
amp/seg (%)	37.4	32.5	Search (2048X64)		0.101		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016	0.016				
ph/frq (deg)	50.2	56.6	Interp.		0.000		Sample rate(MISamp/s): 64				dr window (ns/s)		-0.011	0.011				
amp/frq (%)	49.7	39.2	Inc. seg. avg.		0.108		Data rate(Mb/s): 2048		nlags: 128		t_cohere infinite		ion window (TEC)		0.00	0.00		
	64.6	68.4	Inc. frq. avg.		0.110													

f: az 61.0 el 37.1 pa -78.2 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 263.798 -766.247 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fk..1305JH Output file: /Exps/c192a/v2/1234/No0001/fk.W.134.1305JH

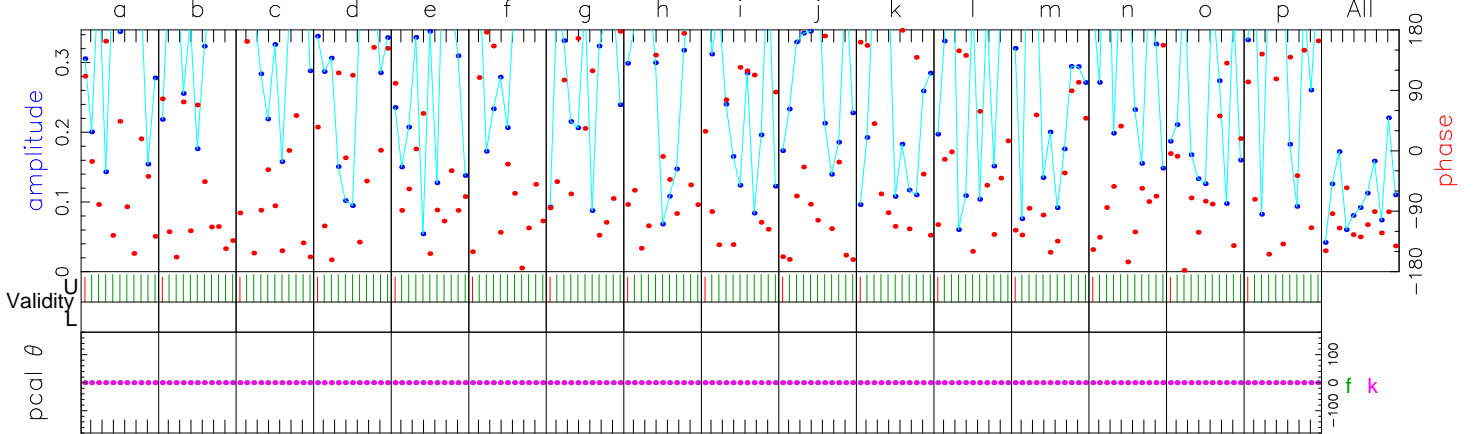
Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fk
VLBA_FD - VLBA_KP, fgroup W, pol RL



Fringe quality 0
SNR 5.9
Int time 407.360
Amp 0.116
Phase -107.6
PFD 6.3e-01
Delays (us)
SBD 0.412802
MBD -0.014633
Fringe rate (Hz)
-0.429082
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042804
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-92.6	-126.8	-115.5	-136.0	-74.5	-125.5	-92.8	-102.2	-150.9	-110.7	-92.4	-30.3	-47.3	-99.7	-89.0	178.2	Phase	-107.6
	0.1	0.2	0.2	0.0	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.0	0.2	0.1	0.2	Ampl.	0.1
	219.0	18.3	139.0	143.9	95.0	25.4	163.5	33.5	237.2	64.3	163.4	4.3	255.5	170.7	171.3	49.6	Sbd box	181.8
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

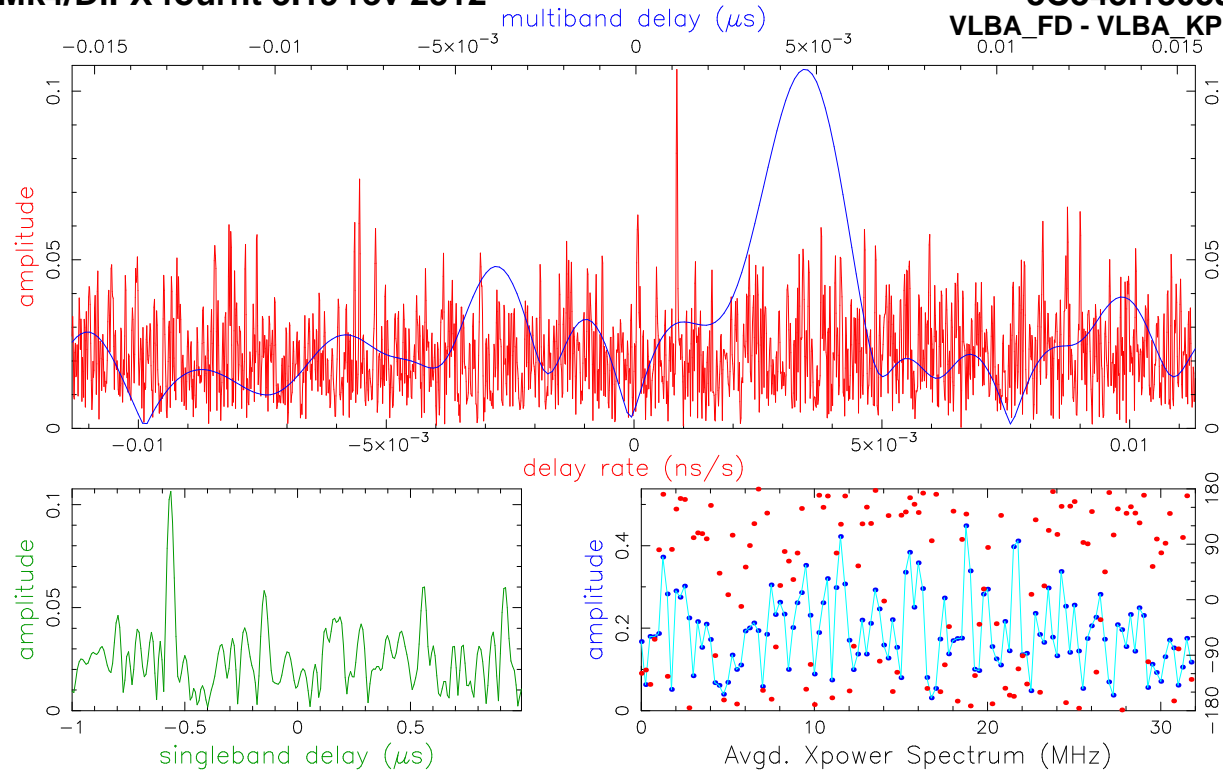
Group delay (usec)(sbd) 1.54184038159E+03 Apriori delay (usec) 1.54141751422E+03 Resid mbdelay (usec) -1.46326E-02 +/- 1.8E-04
Sband delay (usec) 1.54183031672E+03 Apriori clock (usec) 8.5670185E-01 Resid sbdelay (usec) 4.12802E-01 +/- 2.9E-03
Phase delay (usec) 1.54141751075E+03 Apriori clockrate (us/s) 1.0362949E-07 Resid phdelay (usec) -3.46849E-06 +/- 6.3E-07
Delay rate (us/s) -3.76605052526E-02 Apriori rate (us/s) -3.76555240401E-02 Resid rate (us/s) -4.98121E-06 +/- 2.6E-09
Total phase (deg) 135.3 Apriori accel (us/s/s) -9.61461128275E-06 Resid phase (deg) -107.6 +/- 19.5

RMS Theor. Amplitude 0.116 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 25.8 32.2 Search (2048X64) 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 47.7 56.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
ph/frq (deg) 38.5 38.9 Inc. seg. avg. 0.107 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
amp/frq (%) 58.7 67.9 Inc. frq. avg. 0.112 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 263.798 -766.247 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fk..1305JH Output file: /Exps/c192a/v2/1234/No0001/fk.W.150.1305JH

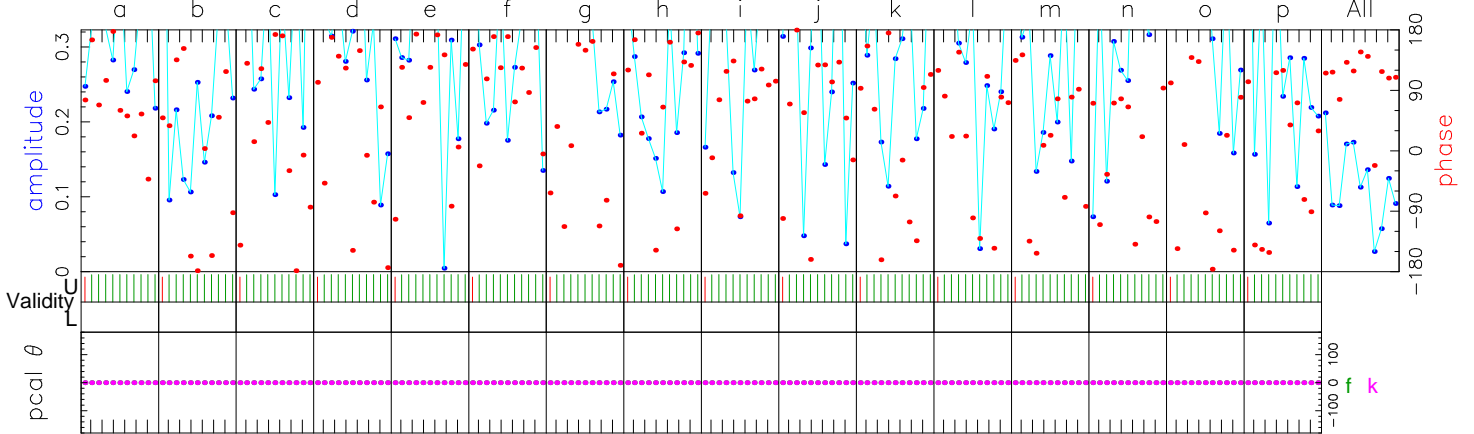
Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fk
VLBA_FD - VLBA_KP, fgroup W, pol LL



Fringe quality 0
SNR 5.9
Int time 407.360
Amp 0.108
Phase 119.3
PFD 5.4e-01
Delays (us)
SBD -0.564877
MBD 0.004647
Fringe rate (Hz) 0.074286
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042749
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		

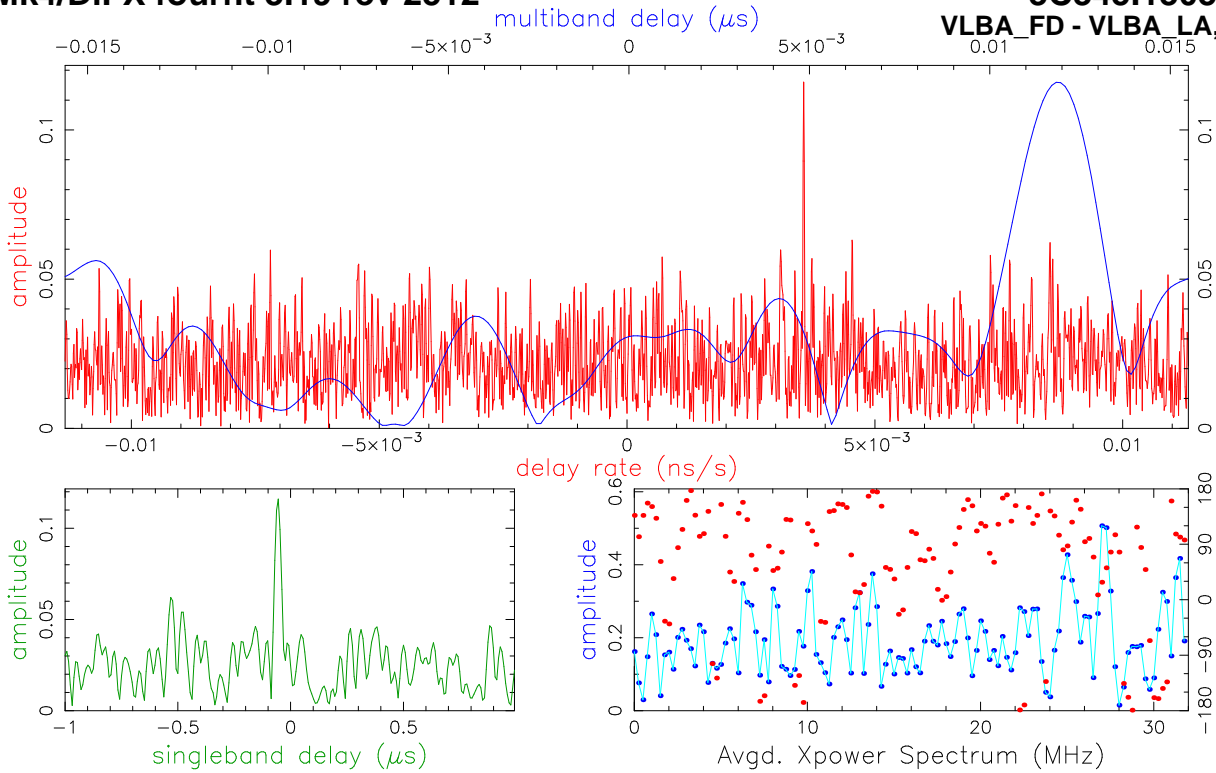
Group delay (usec)(sbd) 1.54085966101E+03 Apriori delay (usec) 1.54141751422E+03 Resid mbdelay (usec) 4.64680E-03 +/- 1.8E-04
 Sband delay (usec) 1.54085263722E+03 Apriori clock (usec) 8.5670185E-01 Resid sbdelay (usec) -5.64877E-01 +/- 2.9E-03
 Phase delay (usec) 1.54141751806E+03 Apriori clockrate (us/s) 1.0362949E-07 Resid phdelay (usec) 3.84813E-06 +/- 6.2E-07
 Delay rate (us/s) -3.76546616532E-02 Apriori rate (us/s) -3.76555240401E-02 Resid rate (us/s) 8.62387E-07 +/- 2.6E-09
 Total phase (deg) 2.2 Apriori accel (us/s/s) -9.61461128275E-06 Resid phase (deg) 119.3 +/- 19.3

RMS Theor. Amplitude 0.108 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 46.4 32.0 Search (2048X64) 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 48.3 55.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 51.0 38.7 Inc. seg. avg. 0.100 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 62.7 67.5 Inc. frq. avg. 0.104 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 k: az 60.1 el 32.1 pa -73.4 u,v (fr/asec) 263.798 -766.247 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fk..1305JH Output file: /Exps/c192a/v2/1234/No0001/fk.W.93.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fl
VLBA_FD - VLBA_LA, fgroup W, pol LR

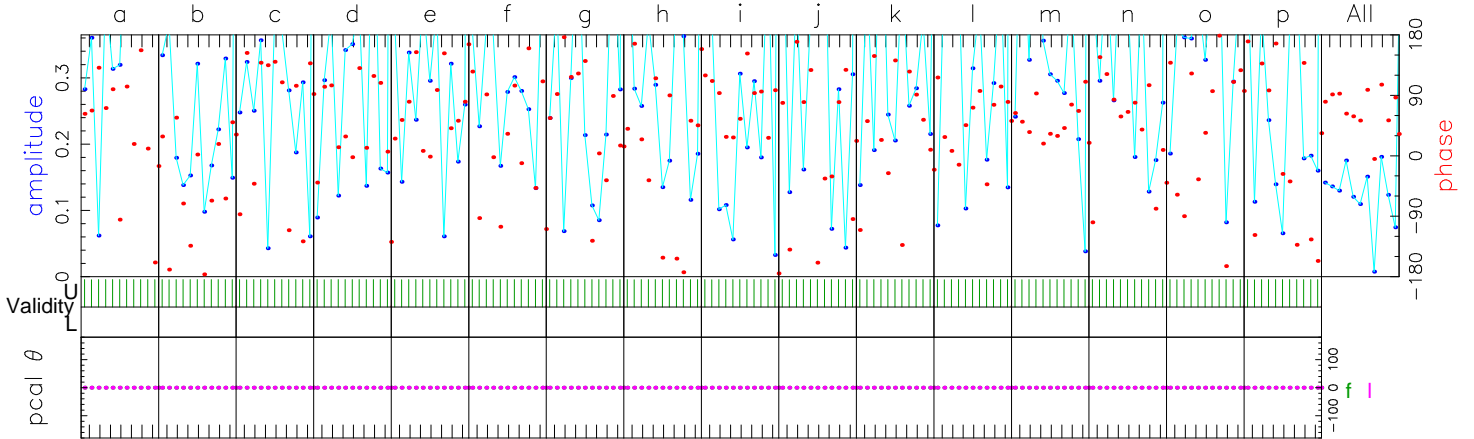


Fringe quality 0

SNR 6.4
Int time 406.562
Amp 0.122
Phase 78.5
PFD 3.3e-02
Delays (us)
SBD -0.056547
MBD 0.011893
Fringe rate (Hz)
0.307480
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042802
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 72 APs / seg (36.86 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	84.2	-18.2	162.1	80.4	56.5	80.5	91.1	96.9	88.6	127.8	57.5	49.4	54.4	67.4	122.6	-173.1	Phase	78.5				
	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.3	0.2	0.1	0.1	Ampl.	0.1				
	211.2	108.6	85.3	120.1	192.5	49.0	19.6	169.3	125.5	38.3	28.7	252.8	122.1	166.8	109.6	134.8	Sbd box	121.8				
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC					
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-1.85370896151E+02														Apriori delay (usec)	-1.85320288805E+02	Resid mbdelay (usec)	1.18927E-02	+/-	1.7E-04
Sband delay (usec)			-1.85376835805E+02														Apriori clock (usec)	1.1950355E+00	Resid sbdelay (usec)	-5.65470E-02	+/-	2.7E-03
Phase delay (usec)			-1.85320286272E+02														Apriori clockrate (us/s)	2.6052251E-07	Resid phdelay (usec)	2.53285E-06	+/-	5.7E-07
Delay rate (us/s)			3.63811522895E-02														Apriori rate (us/s)	3.63775827554E-02	Resid rate (us/s)	3.56953E-06	+/-	2.4E-09
Total phase (deg)																	Apriori accel (us/s/s)	-4.42350530936E-06	Resid phase (deg)	78.5	+/-	17.8

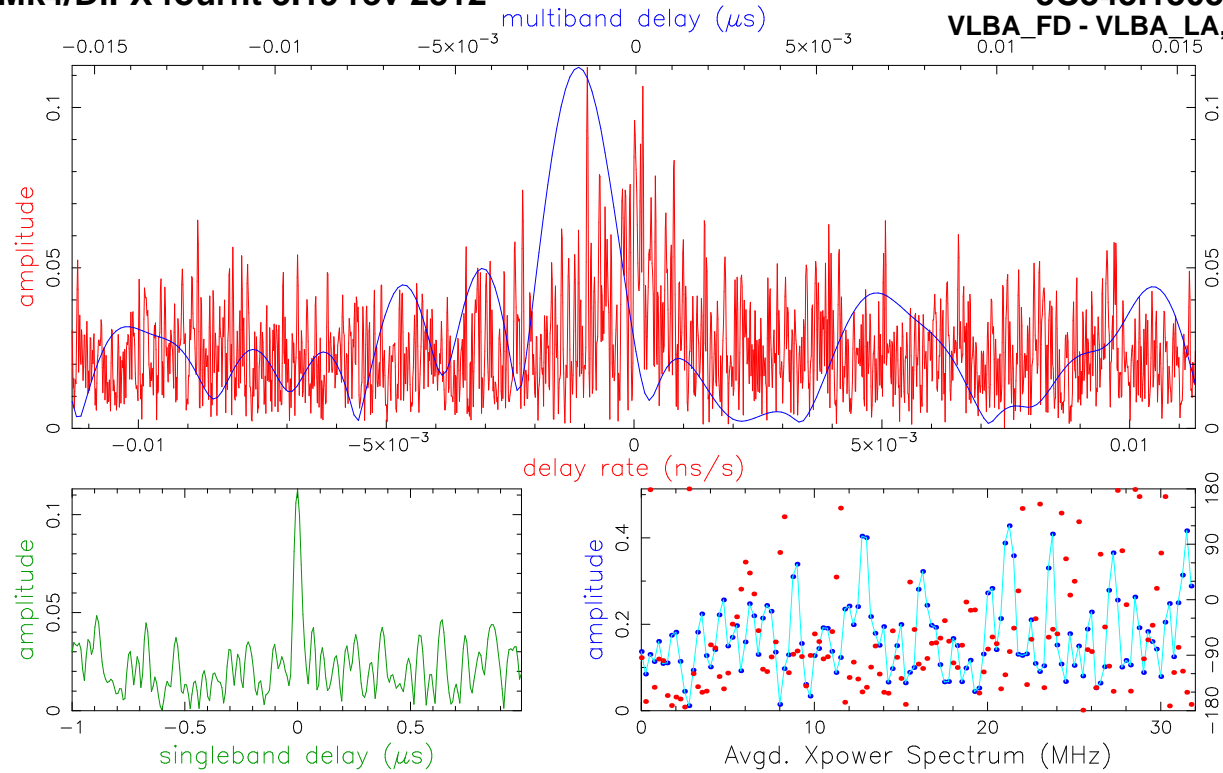
ph/seg (deg) RMS Theor. Amplitude 0.122 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.9 30.8 Search (2048X64) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.5 53.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 50.4 35.6 Inc. seg. avg. 0.113 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 61.4 62.1 Inc. frq. avg. 0.127 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 l: az 63.9 el 37.8 pa -72.0 u,v (fr/asec) -279.838 -796.742 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fl..1305JH Output file: /Exps/c192a/v2/1234/No0001/fl.W.144.1305JH

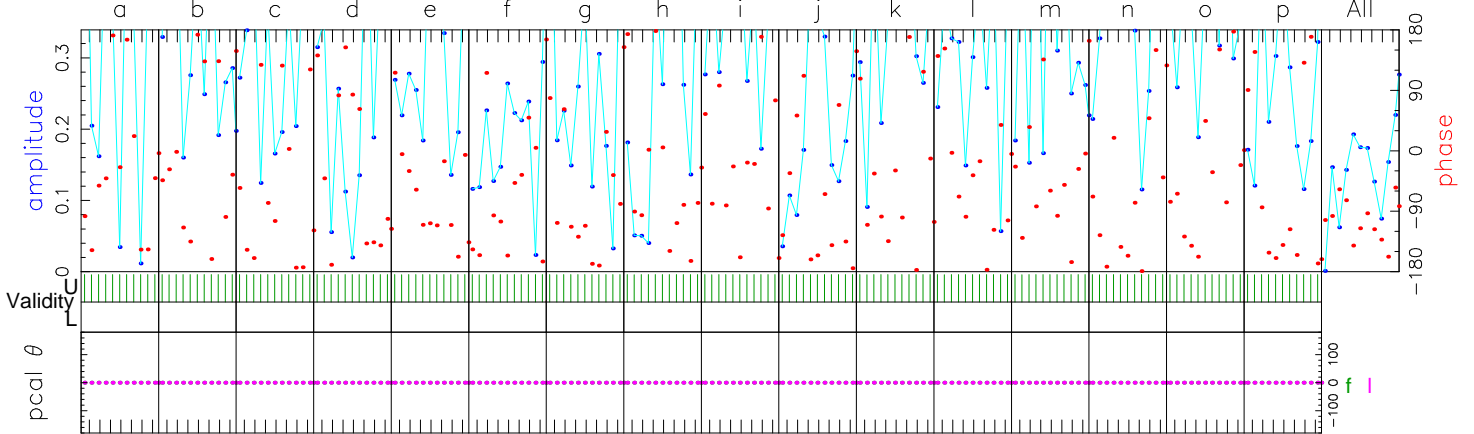
Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fl
VLBA_FD - VLBA_LA, fgroup W, pol RL



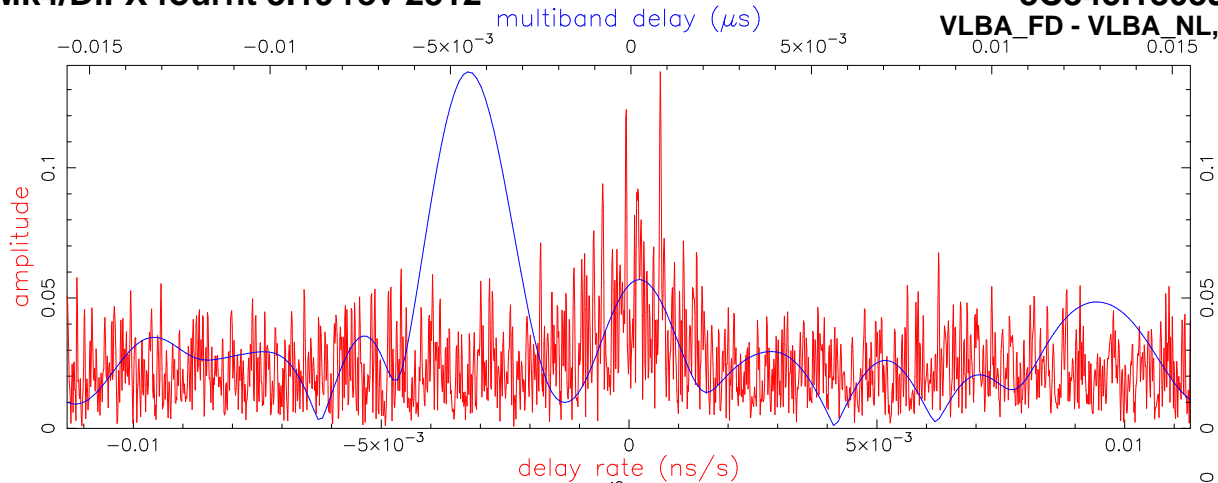
Fringe quality 0
SNR 6.2
Int time 406.562
Amp 0.113
Phase -103.9
PFD 1.3e-01
Delays (us)
SBD -0.001349
MBD -0.001604
Fringe rate (Hz)
-0.081110
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042807
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 72 APs / seg (36.86 sec / seg.), time ticks 60 sec



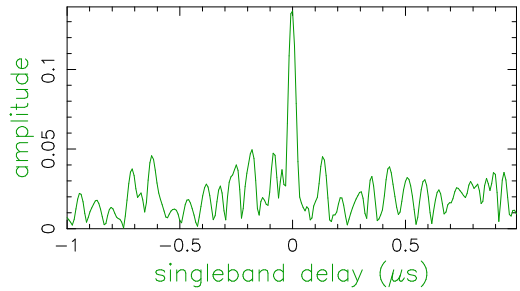
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)		-1.85321892577E+02																
Sband delay (usec)		-1.85321637805E+02																
Phase delay (usec)		-1.85320292156E+02																
Delay rate (us/s)		3.63766411475E-02																
Total phase (deg)																		
Apriori delay (usec)																		
Apriori clock (usec)																		
Apriori clockrate (us/s)																		
Apriori rate (us/s)																		
Apriori accel (us/s/s)																		
Resid mbdelay (usec)																		
Resid sbdelay (usec)																		
Resid phdelay (usec)																		
Resid rate (us/s)																		
Resid phase (deg)																		
PCal mode: MANUAL, MANUAL																		
PCal rate: 0.000E+00, 0.000E+00 (us/s)																		
Bits/sample: 2x2																		
Sample rate(MISamp/s): 64																		
Data rate(Mb/s): 2048																		
nlags: 128																		
t_cohere infinite																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		
ion window (TEC)																		
simultaneous interpolator																		

ph/seg (deg) 31.7 31.9 Search (2048X64) 0.111 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 57.8 55.7 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 33.9 36.8 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 46.9 64.3 Inc. frq. avg. 0.110 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
f: az 61.0 el 37.1 pa -78.2 l: az 63.9 el 37.8 pa -72.0 u,v (fr/asec) -279.838 -796.742 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fl..1305JH Output file: /Exps/c192a/v2/1234/No0001/fl.W.162.1305JH simultaneous interpolator

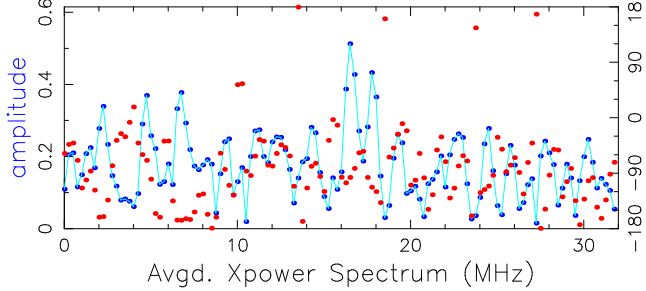


Fringe quality 9

SNR 7.7
Int time 410.452
Amp 0.139
Phase -87.5
PFD 4.2e-06
Delays (us)
SBD -0.003364
MBD -0.004527
Fringe rate (Hz)
0.054008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

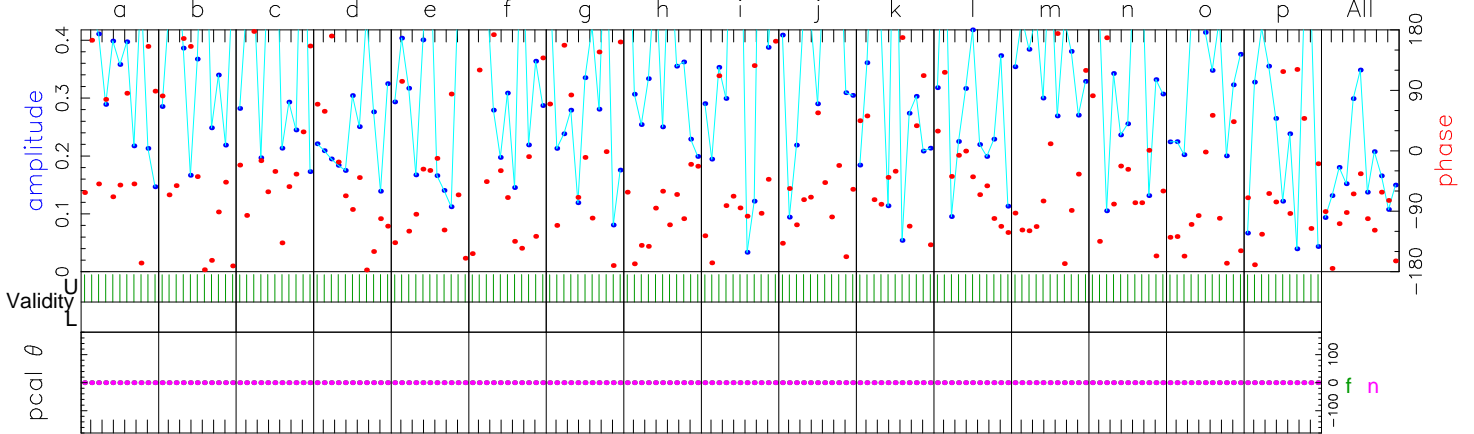


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042755
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-80.4	-125.8	-43.7	-114.1	-79.4	-141.6	33.6	-89.2	-99.4	-70.7	-41.9	-35.4	-106.0	-78.2	-104.2	-101.9	Phase	-87.5
	0.1	0.2	0.2	0.1	0.1	0.2	0.0	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.1	Ampl.	0.1
	245.9	66.5	127.3	236.7	189.3	4.5	110.9	128.5	128.7	128.8	66.1	88.0	126.7	176.2	250.0	102.7	Sbd box	128.6
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

Group delay (usec)(sbd)	-3.57270629382E+03	Apriori delay (usec)	-3.57270176659E+03	Resid mbdelay (usec)	-4.52723E-03	+/-	1.4E-04
Sband delay (usec)	-3.57270513059E+03	Apriori clock (usec)	-2.6020557E+01	Resid sbdelay (usec)	-3.36400E-03	+/-	2.2E-03
Phase delay (usec)	-3.57270176941E+03	Apriori clockrate (us/s)	-2.2517302E-07	Resid phdelay (usec)	-2.82067E-06	+/-	4.8E-07
Delay rate (us/s)	2.24320942709E-01	Apriori rate (us/s)	2.24320315735E-01	Resid rate (us/s)	6.26974E-07	+/-	2.0E-09
Total phase (deg)	-150.2	Apriori accel (us/s/s)	7.56842907894E-06	Resid phase (deg)	-87.5	+/-	14.9

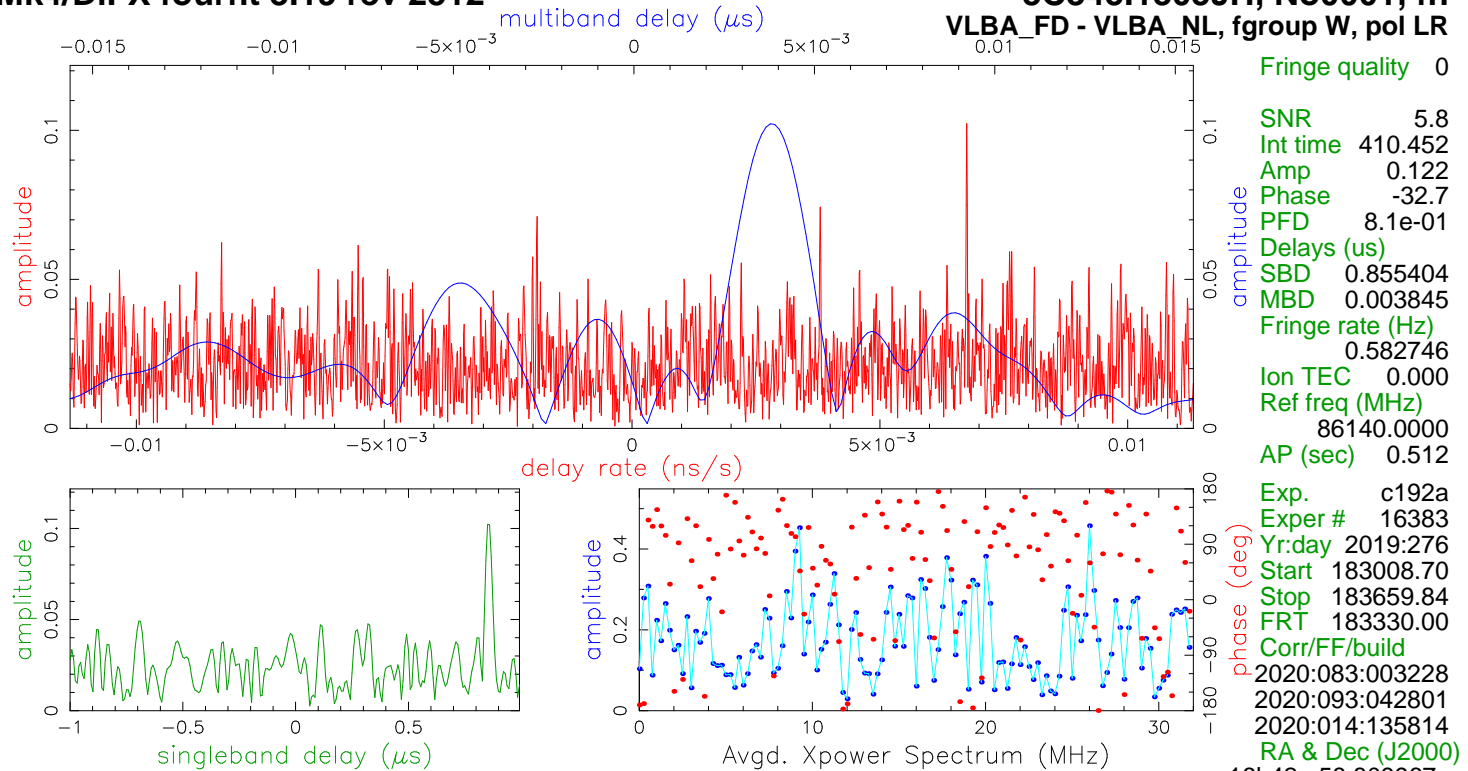
ph/seg (deg)	RMS 41.9	Theor. 24.7	Amplitude Search (2048X64)	0.139 +/- 0.018	0.130	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	61.3	43.0	Interp.	0.000	0.130	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	44.7	29.7	Inc. seg. avg.	0.165	0.130	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	49.8	51.9	Inc. frq. avg.	0.141	0.130	Sample rate(MISamp/s): 64	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
						nlags: 128	t_cohere infinite

f: az 61.0 el 37.1 pa -78.2 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1661.023 -549.903 simultaneous interpolator

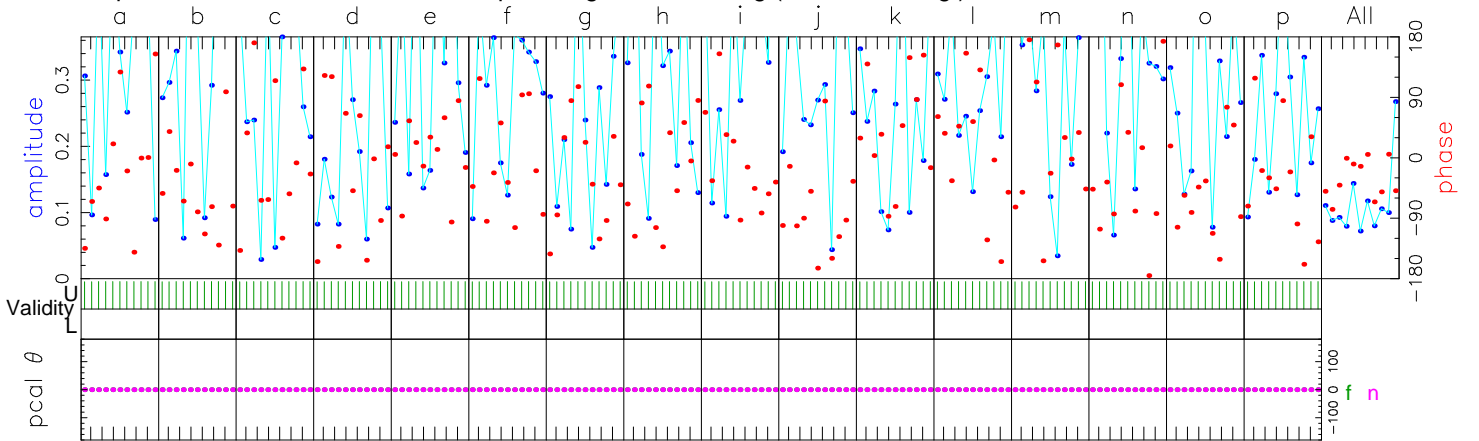
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fn...1305JH Output file: /Exps/c192a/v2/1234/No0001/fn.W.121.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fn
VLBA_FD - VLBA_NL, fgroup W, pol LR

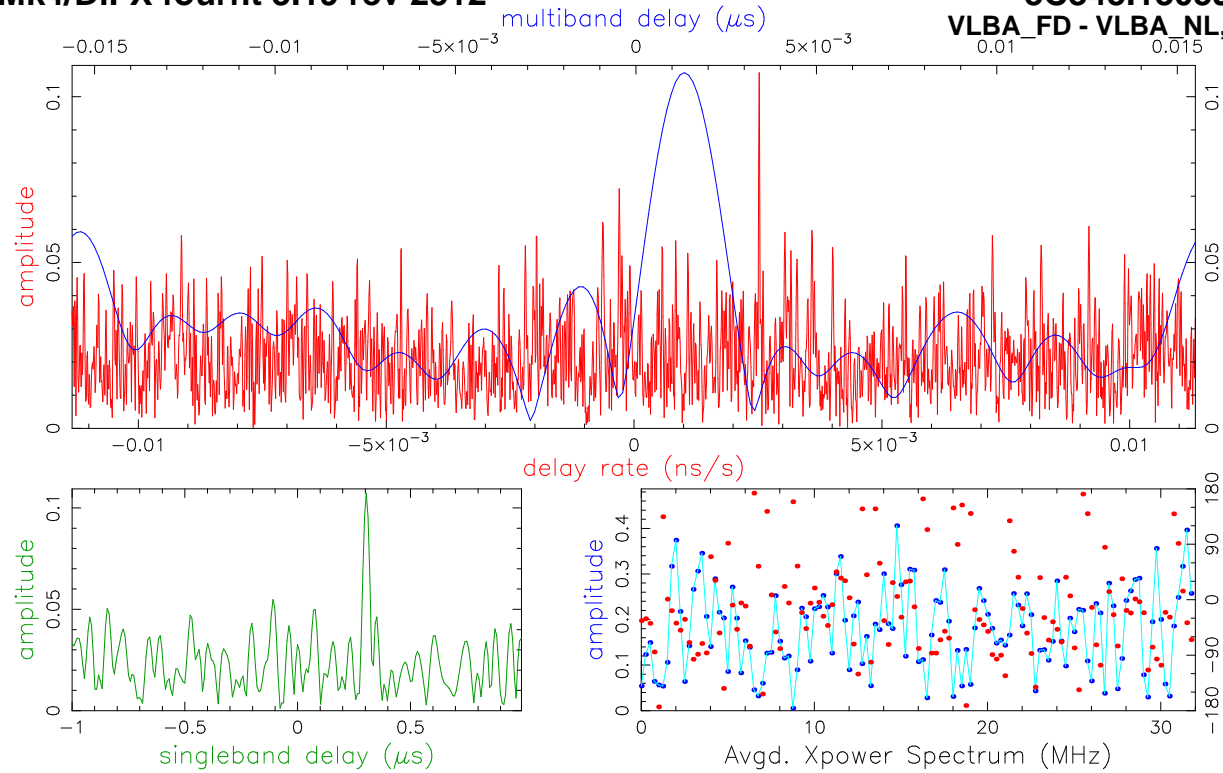


Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
-28.9	-51.9	-71.5	10.9	-2.5	-9.5	5.8	-64.3	-27.2	-85.7	34.0	-0.2	-43.7	-59.9	-42.2	-25.1	Phase	-32.7					
0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1					
183.0	155.9	165.1	177.0	133.0	235.1	224.3	142.8	193.3	88.7	114.1	106.8	79.6	119.2	148.5	230.1	Sbd box	238.5					
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used						
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase						
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC						
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp						
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
Group delay (usec)(sbd)			-3.57185417162E+03														Apriori delay (usec)	-3.57270176659E+03	Resid mbdelay (usec)	3.84497E-03	+/-	1.9E-04
Sband delay (usec)			-3.57184636259E+03														Apriori clock (usec)	-2.6020557E+01	Resid sbdelay (usec)	8.55404E-01	+/-	3.0E-03
Phase delay (usec)			-3.57270176765E+03														Apriori clockrate (us/s)	-2.2517302E-07	Resid phdelay (usec)	-1.05434E-06	+/-	6.4E-07
Delay rate (us/s)			2.24327080843E-01														Apriori rate (us/s)	2.24320315735E-01	Resid rate (us/s)	6.76511E-06	+/-	2.7E-09
Total phase (deg)																	Apriori accel (us/s/s)	7.56842907894E-06	Resid phase (deg)	-32.7	+/-	19.8

ph/seg (deg)	RMS	Theor.	Amplitude	0.122 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	28.3	32.8	Search (2048X64)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	50.7	57.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	34.9	39.5	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 64	dr window (ns/s) -0.011 0.011
	52.7	68.9	Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 61.0 el 37.1 pa -78.2			n: az 74.7 el 50.6 pa -69.4		u,v (fr/asec) -1661.023 -549.903	simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c192a/v2/1234/No0001/fn...1305JH		Output file: /Exps/c192a/v2/1234/No0001/fn.W.141.1305JH	

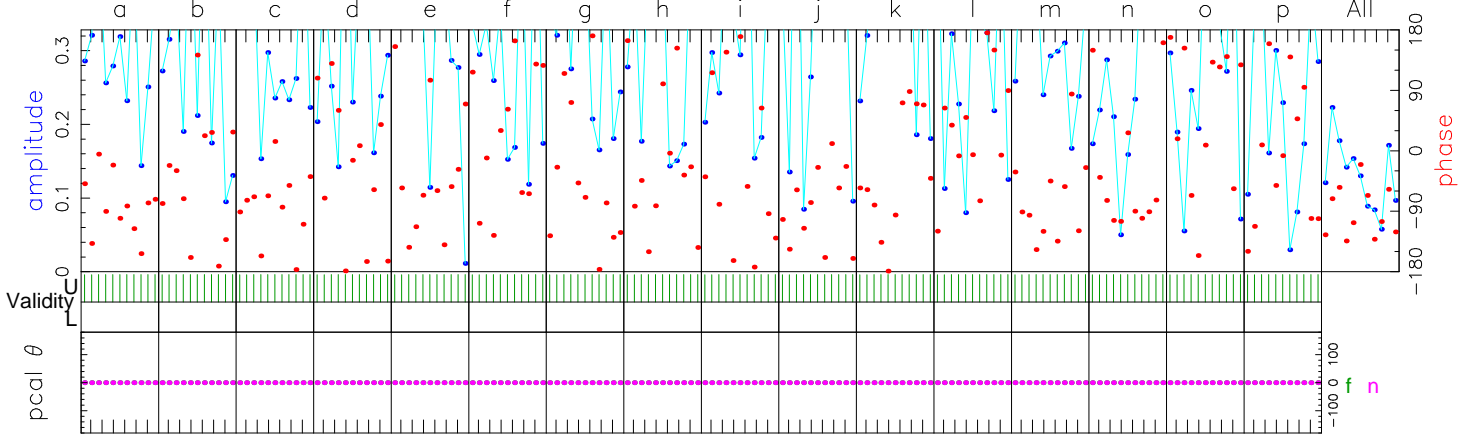


Fringe quality 0

SNR 5.9
Int time 410.452
Amp 0.109
Phase -85.5
PFD 5.2e-01
Delays (us)
SBD 0.304637
MBD 0.001340
Fringe rate (Hz)
0.217325
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042807
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-78.6	-55.9	-81.5	-169.3	-92.6	99.6	-92.5	-102.0	-133.3	-64.4	-72.0	-17.0	-88.0	-96.8	125.4	-71.4		Phase	-85.5
	0.2	0.1	0.2	0.0	0.2	0.0	0.1	0.1	0.1	0.2	0.0	0.1	0.2	0.2	0.0	0.1		Ampl.	0.1
	117.1	241.1	167.1	24.3	167.6	30.2	136.3	16.4	58.7	168.5	22.1	215.1	168.2	58.7	255.6	229.1		Sbd box	168.0
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
fn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	

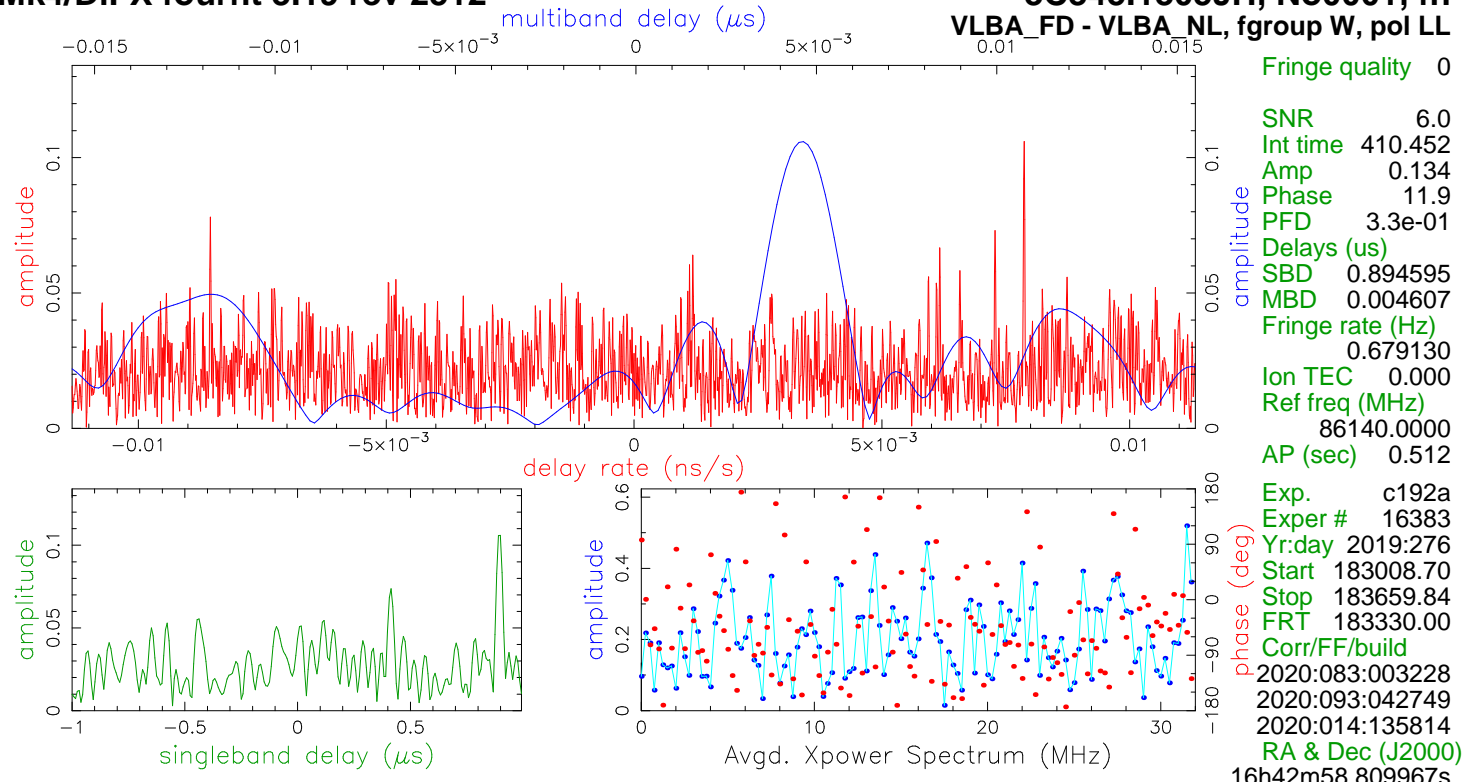
Group delay (usec)(sbd) -3.57238792640E+03 Apriori delay (usec) -3.57270176659E+03 Resid mbdelay (usec) 1.34019E-03 +/- 1.8E-04
 Sband delay (usec) -3.57239712909E+03 Apriori clock (usec) -2.6020557E+01 Resid sbdelay (usec) 3.04637E-01 +/- 2.9E-03
 Phase delay (usec) -3.57270176935E+03 Apriori clockrate (us/s) -2.2517302E-07 Resid phdelay (usec) -2.75759E-06 +/- 6.2E-07
 Delay rate (us/s) 2.24322838664E-01 Apriori rate (us/s) 2.24320315735E-01 Resid rate (us/s) 2.52293E-06 +/- 2.6E-09
 Total phase (deg) -148.2 Apriori accel (us/s/s) 7.56842907894E-06 Resid phase (deg) -85.5 +/- 19.3

RMS Theor. Amplitude 0.109 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 36.6 32.0 Search (2048X64) 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 48.7 55.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 70.2 38.6 Inc. seg. avg. 0.116 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 74.6 67.3 Inc. frq. avg. 0.103 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

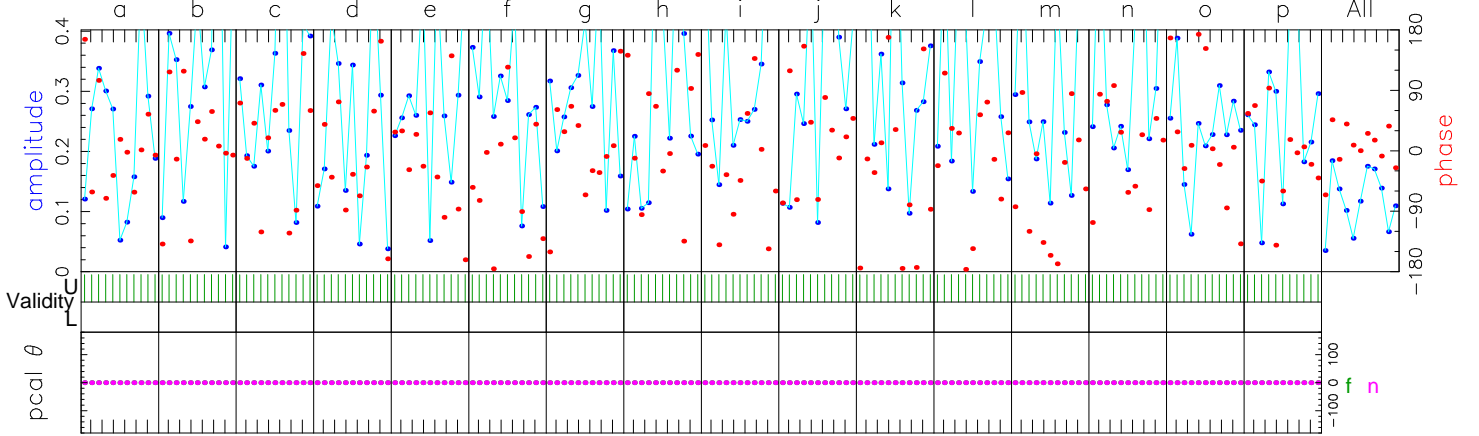
f: az 61.0 el 37.1 pa -78.2 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1661.023 -549.903 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fn...1305JH Output file: /Exps/c192a/v2/1234/No0001/fn.W.165.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fn
VLBA_FD - VLBA_NL, fgroup W, pol LL

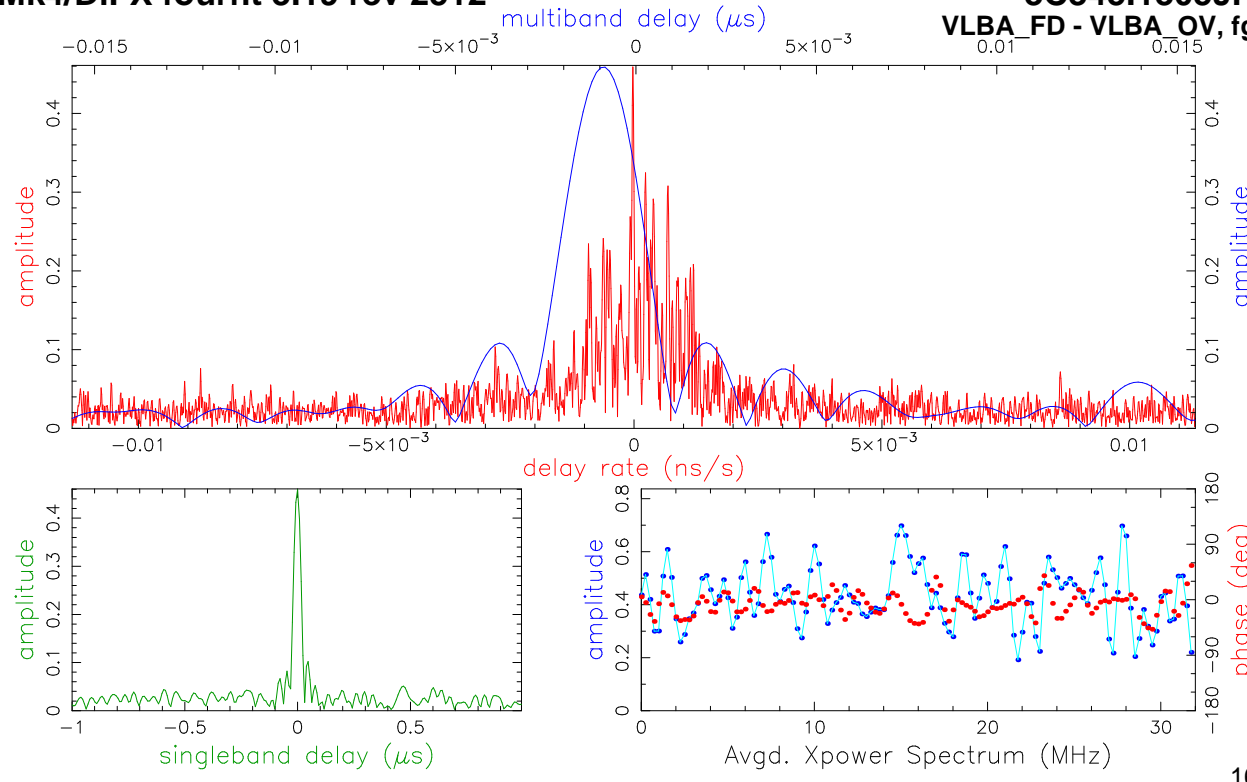


Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-9.8	23.6	66.9	8.8	-37.0	-14.1	-1.7	74.3	-44.2	34.5	-20.2	45.6	-55.5	24.9	-16.6	10.6	Phase	11.9				
	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.3	0.1	0.2	0.1	0.3	0.1	0.2	Ampl.	0.1				
	97.1	144.5	25.9	182.8	96.3	134.8	206.4	16.2	249.4	229.9	97.1	242.2	22.1	200.2	252.1	148.0	Sbd box	243.5				
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
fn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-3.57182215920E+03														Apriori delay (usec)	-3.57270176659E+03	Resid mbdelay (usec)	4.60739E-03	+/-	1.8E-04
Sband delay (usec)			-3.57180717159E+03														Apriori clock (usec)	-2.6020557E+01	Resid sbdelay (usec)	8.94595E-01	+/-	2.9E-03
Phase delay (usec)			-3.57270176621E+03														Apriori clockrate (us/s)	-2.2517302E-07	Resid phdelay (usec)	3.85122E-07	+/-	6.1E-07
Delay rate (us/s)			2.24328199762E-01														Apriori rate (us/s)	2.24320315735E-01	Resid rate (us/s)	7.88403E-06	+/-	2.6E-09
Total phase (deg)																	Apriori accel (us/s/s)	7.56842907894E-06	Resid phase (deg)	11.9	+/-	19.0

	RMS	Theor.	Amplitude	0.134 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	32.1	31.5	Search (2048X64)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	44.5	54.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	39.8	38.0	Inc. seg. avg.	0.126	Sample rate(MISamp/s): 64	dr window (ns/s) -0.011 0.011
amp/frq (%)	49.9	66.3	Inc. frq. avg.	0.128	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 61.0 el 37.1 pa -78.2			n: az 74.7 el 50.6 pa -69.4		u,v (fr/asec) -1661.023 -549.903	simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c192a/v2/1234/No0001/fn..1305JH		Output file: /Exps/c192a/v2/1234/No0001/fn.W.94.1305JH	

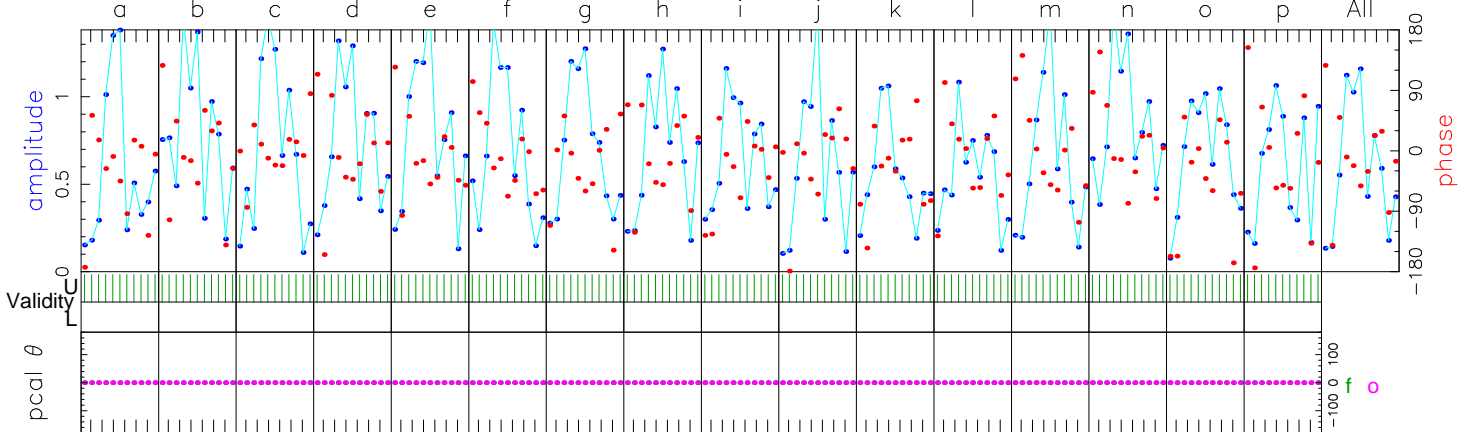


Fringe quality 7

SNR 25.5
Int time 410.455
Amp 0.461
Phase -11.2
PFD 0.0e+00
Delays (us)
SBD -0.001609
MBD -0.000916
Fringe rate (Hz) -0.001459
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042755
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-21.9	-5.2	-3.3	-5.5	-16.0	-13.8	-19.4	-6.3	-15.4	-14.8	-20.1	5.0	-20.8	-4.3	-6.9	-8.6	Phase	-11.2
	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.5	0.4	0.3	Ampl.	0.5
	128.6	129.4	128.6	129.0	129.5	128.7	128.5	128.7	128.6	128.7	129.3	128.1	128.5	128.8	127.9	130.2	Sbd box	128.8
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

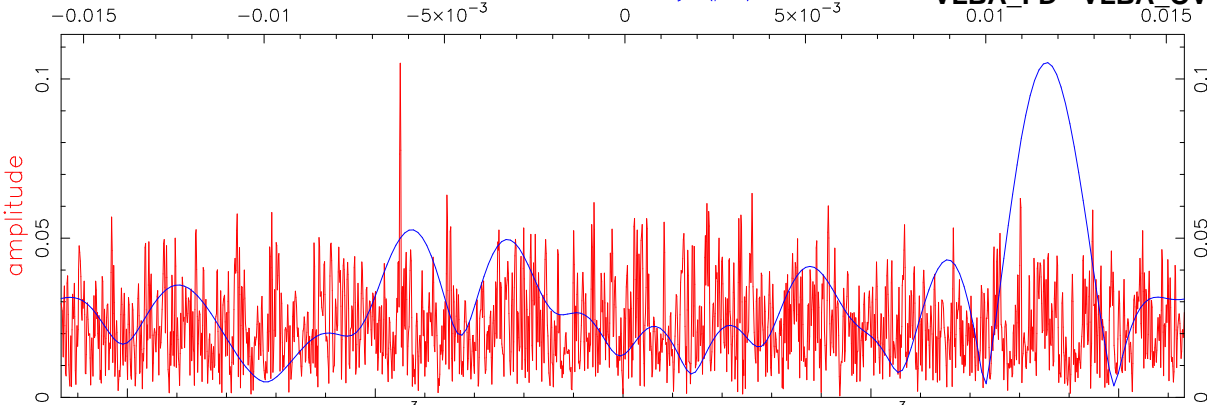
Group delay (usec)(sbd) 2.22717446825E+03 Apriori delay (usec) 2.22717538439E+03 Resid mbdelay (usec) -9.16139E-04 +/- 4.2E-05
 Sband delay (usec) 2.22717377539E+03 Apriori clock (usec) -1.6174999E+01 Resid sbdelay (usec) -1.60900E-03 +/- 6.7E-04
 Phase delay (usec) 2.22717538403E+03 Apriori clockrate (us/s) -9.1930498E-08 Resid phdelay (usec) -3.60511E-07 +/- 1.4E-07
 Delay rate (us/s) -6.53444893426E-03 Apriori rate (us/s) -6.53443200115E-03 Resid rate (us/s) -1.69331E-08 +/- 6.1E-10
 Total phase (deg) 208.8 Apriori accel (us/s/s) -1.88137562833E-05 Resid phase (deg) -11.2 +/- 4.5

RMS Theor. Amplitude 0.461 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.0 7.4 Search (2048X64) 0.446 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 84.3 13.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 8.0 9.0 Inc. seg. avg. 0.591 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 16.6 15.7 Inc. frq. avg. 0.457 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

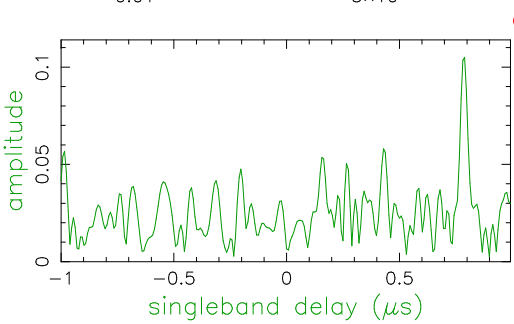
f: az 61.0 el 37.1 pa -78.2 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 14.933 -1880.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fo..1305JH Output file: /Exps/c192a/v2/1234/No0001/fo.W.118.1305JH

multiband delay (μ s)

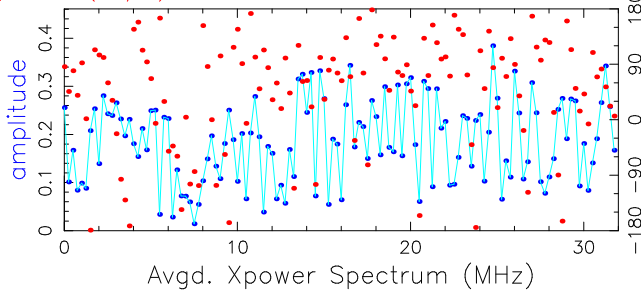
Fringe quality 0



SNR 5.9
Int time 410.455
Amp 0.114
Phase -134.5
PFD 5.8e-01
Delays (us)
SBD 0.785728
MBD 0.011628
Fringe rate (Hz)
-0.388007
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

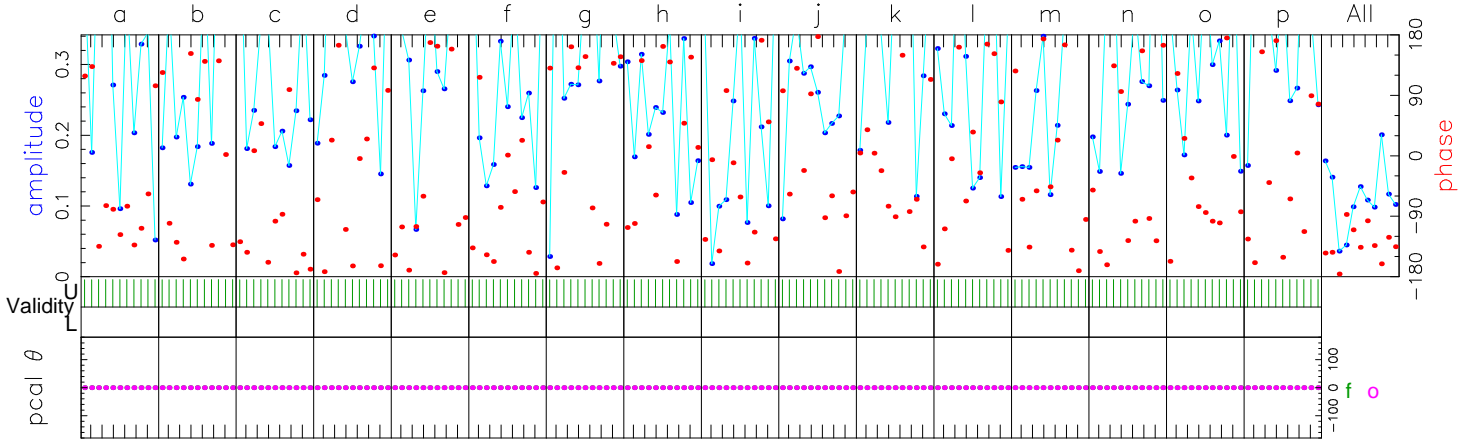


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042800
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



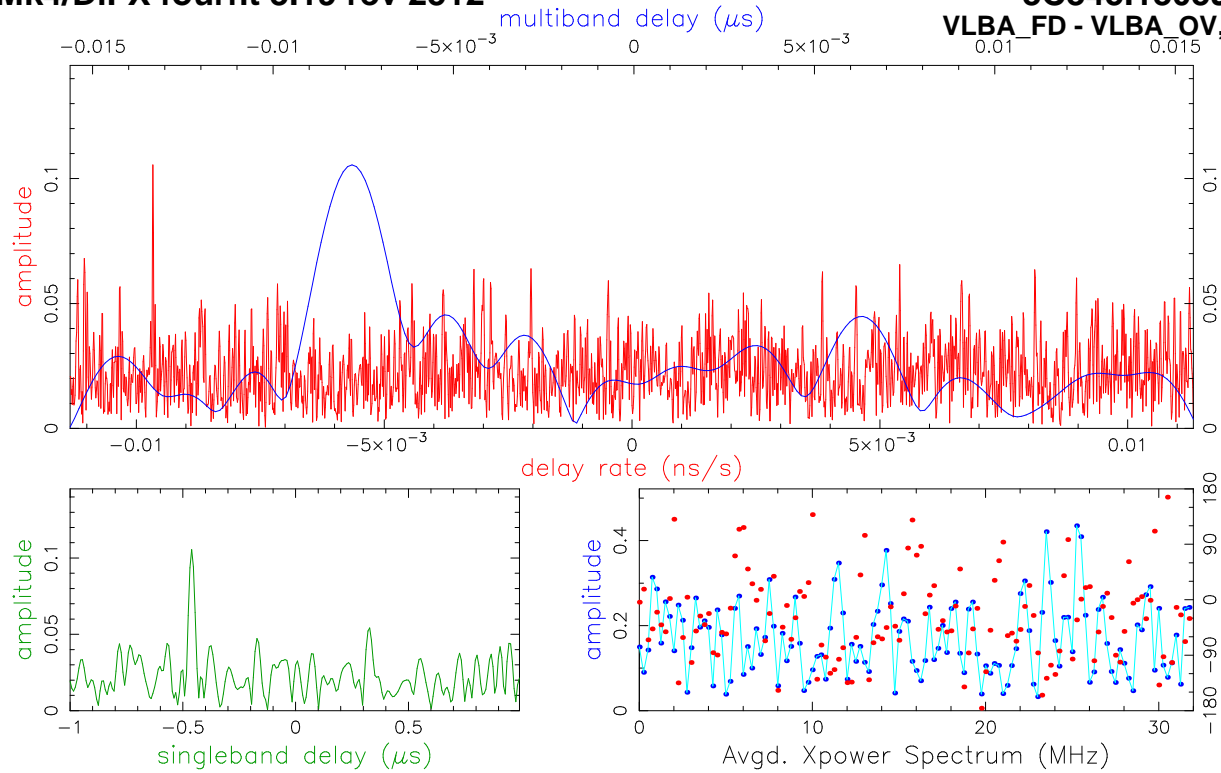
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-101.9	-179.6	-142.9	107.0	-143.3	-93.8	-165.7	148.7	-109.5	-88.9	-54.6	-171.6	-139.2	-148.6	-78.1	-149.1	Phase	-134.5
	0.2	0.1	0.1	0.1	0.3	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	64.5	168.0	129.0	67.2	231.6	145.3	25.3	133.1	127.0	61.2	116.2	108.1	100.0	252.2	228.1	183.9	Sbd box	229.6
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

Group delay (usec)(sbd)	2.22796826263E+03	Apriori delay (usec)	2.22717538439E+03	Resid mbdelay (usec)	1.16282E-02	+/-	1.8E-04
Sband delay (usec)	2.22796111189E+03	Apriori clock (usec)	-1.6174999E+01	Resid sbdelay (usec)	7.85728E-01	+/-	2.9E-03
Phase delay (usec)	2.22717538005E+03	Apriori clockrate (us/s)	-9.1930498E-08	Resid phdelay (usec)	-4.33807E-06	+/-	6.2E-07
Delay rate (us/s)	-6.53893637988E-03	Apriori rate (us/s)	-6.53443200115E-03	Resid rate (us/s)	-4.50438E-06	+/-	2.6E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.88137562833E-05	Resid phase (deg)	-134.5	+/-	19.4

ph/seg (deg)	RMS 25.2	Theor. 32.1	Amplitude Search (2048X64)	0.114 +/- 0.019	0.103	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	42.5	56.1	Interp.	0.000	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	53.4	38.8	Inc. seg. avg.	0.104	0.104	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
amp/frq (%)	55.7	67.6	Inc. frq. avg.	0.116	0.116	Sample rate(MISamp/s): 64	dr window (ns/s)	-0.011	0.011		
						Data rate(Mb/s): 2048	nlags: 128	t_cohere infinite	ion window (TEC)	0.00	0.00

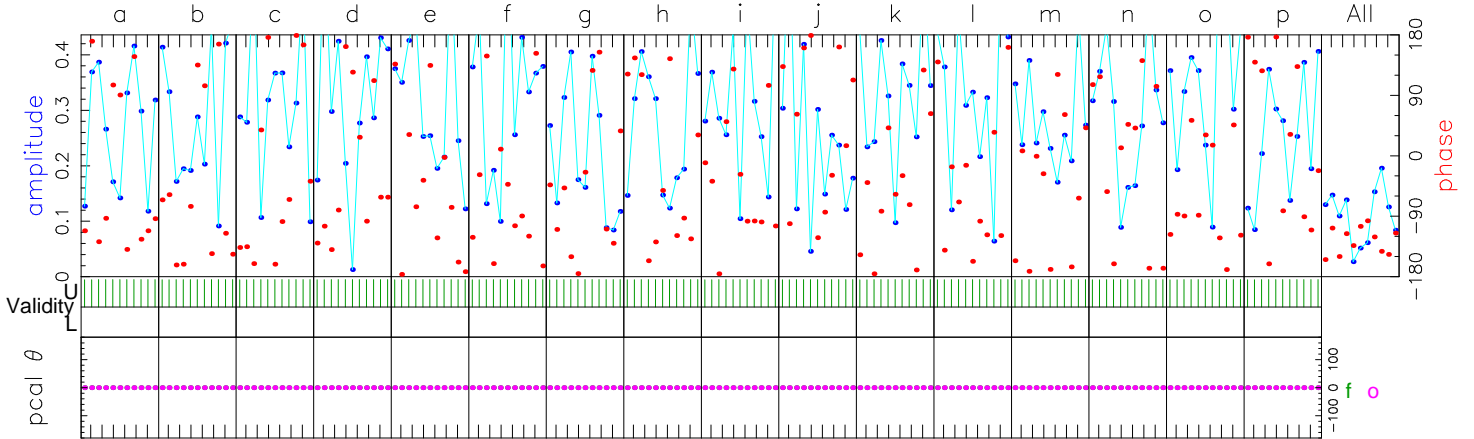
f: az 61.0 el 37.1 pa -78.2 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 14.933 -1880.128 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fo...1305JH Output file: /Exps/c192a/v2/1234/No0001/fo.W.136.1305JH



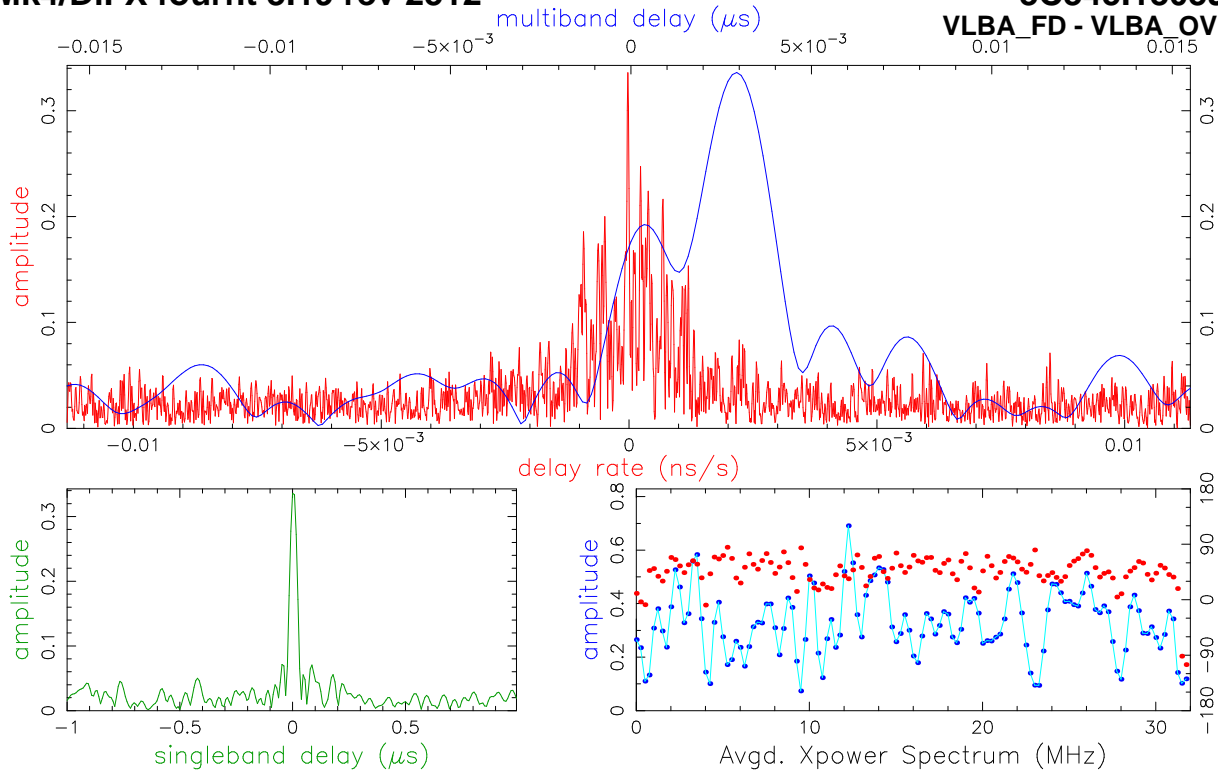
Fringe quality 0
SNR 5.8
Int time 410.455
Amp 0.145
Phase -128.9
PFD 7.2e-01
Delays (us)
SBD -0.460840
MBD -0.007812
Fringe rate (Hz)
-0.833768
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042805
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All						
	-147.3	-130.8	-153.7	-93.9	-105.3	-102.3	-137.1	-162.0	-92.8	-152.8	-98.9	-127.9	-75.9	145.0	-107.5	-138.5		Phase -128.9						
	0.2	0.2	0.3	0.3	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.0	0.2	0.2	0.1		Ampl. 0.1						
	177.4	132.2	71.3	38.0	154.1	30.9	144.3	137.3	208.0	231.8	126.7	151.4	81.4	67.5	173.6	156.7		Sbd box 70.0						
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used						
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs						
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase						
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC						
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp						
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000								
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids						
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks						
																			Tracks					
Group delay (usec)(sbd)			2.22673007217E+03																Apriori delay (usec)	2.22717538439E+03	Resid mbdelay (usec)	-7.81222E-03	+/-	1.8E-04
Sband delay (usec)			2.22671454389E+03																Apriori clock (usec)	-1.6174999E+01	Resid sbdelay (usec)	-4.60840E-01	+/-	2.9E-03
Phase delay (usec)			2.22717538023E+03																Apriori clockrate (us/s)	-9.1930498E-08	Resid phdelay (usec)	-4.15802E-06	+/-	6.3E-07
Delay rate (us/s)			-6.54411121921E-03																Apriori rate (us/s)	-6.53443200115E-03	Resid rate (us/s)	-9.67922E-06	+/-	2.7E-09
Total phase (deg)				91.0															Apriori accel (us/s/s)	-1.88137562833E-05	Resid phase (deg)	-128.9	+/-	19.6

ph/seg (deg) 19.3 32.5 Search (2048X64) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.8 56.7 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 39.2 Inc. seg. avg. 0.132 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 54.8 68.4 Inc. frq. avg. 0.137 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 14.933 -1880.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fo...1305JH Output file: /Exps/c192a/v2/1234/No0001/fo.W.153.1305JH

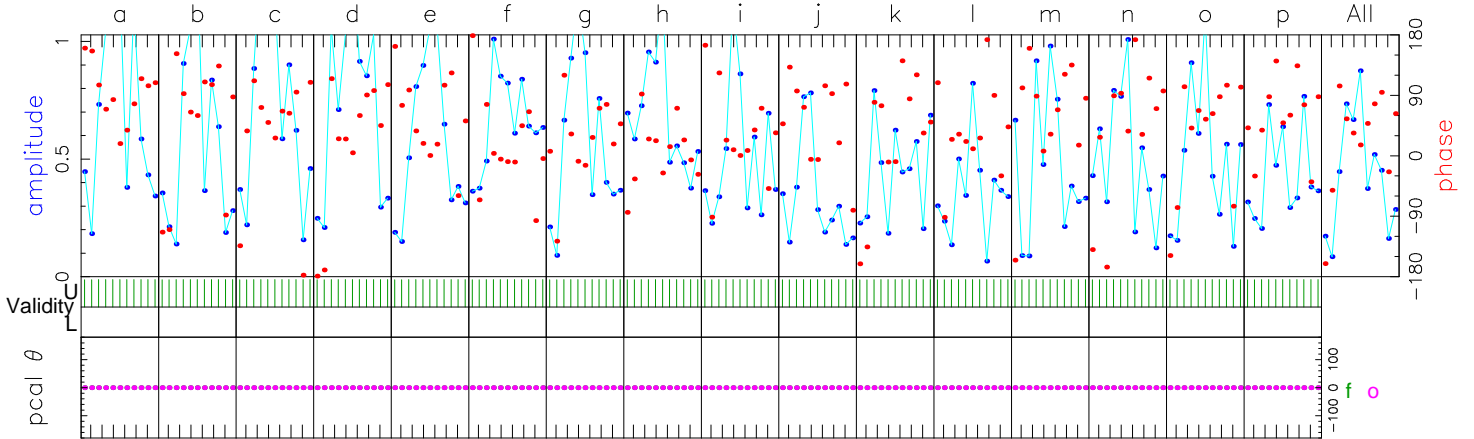


Fringe quality 7

SNR 19.0
Int time 410.455
Amp 0.343
Phase 53.2
PFD 0.0e+00
Delays (us)
SBD 0.003656
MBD 0.002959
Fringe rate (Hz) -0.001443
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

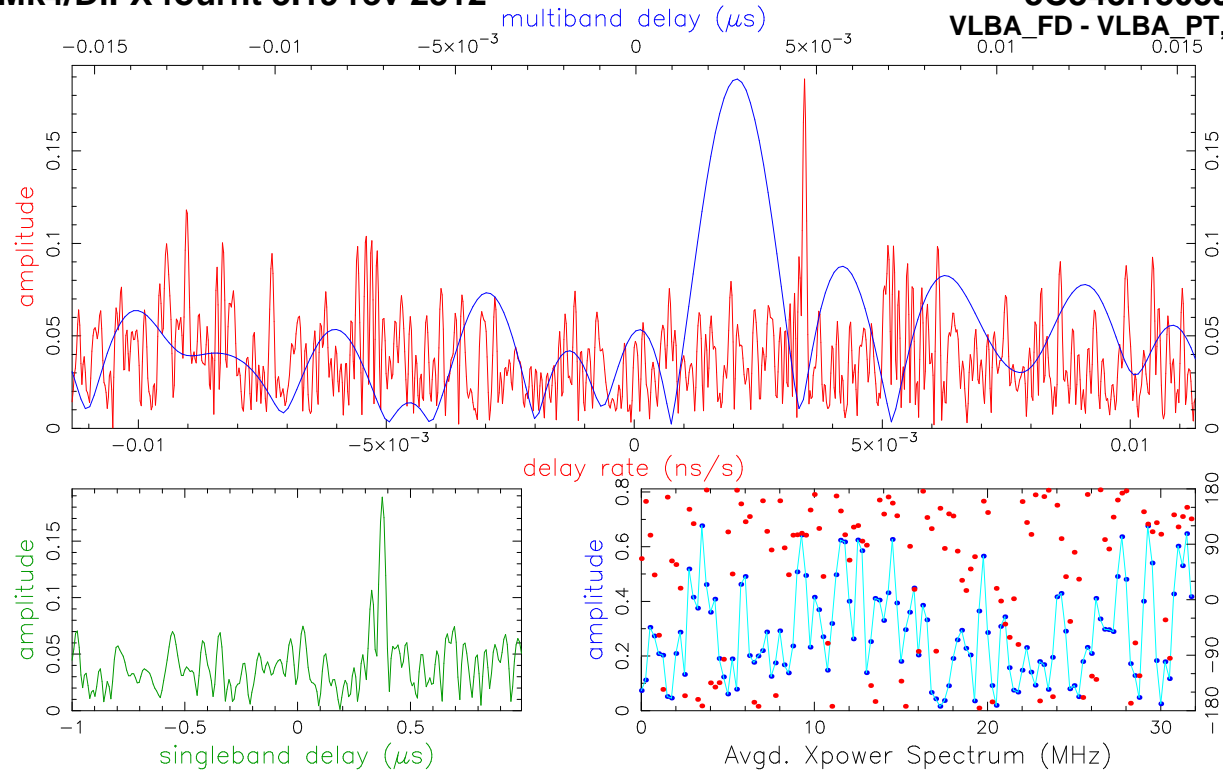
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042749
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)	2.22717834375E+03			Apriori delay (usec)			2.22717538439E+03			Resid mbdelay (usec)			2.95937E-03			+/-	5.7E-05	
Sband delay (usec)	2.22717904039E+03			Apriori clock (usec)			-1.6174999E+01			Resid sbdelay (usec)			3.65600E-03			+/-	9.1E-04	
Phase delay (usec)	2.22717538610E+03			Apriori clockrate (us/s)			-9.1930498E-08			Resid phdelay (usec)			1.71464E-06			+/-	1.9E-07	
Delay rate (us/s)	-6.53444874933E-03			Apriori rate (us/s)			-6.53443200115E-03			Resid rate (us/s)			-1.67482E-08			+/-	8.2E-10	
Total phase (deg)	273.2			Apriori accel (us/s/s)			-1.88137562833E-05			Resid phase (deg)			53.2			+/-	6.0	

ph/seg (deg) 63.8 10.0 Search (2048X64) 0.327 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.1 17.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.5 12.1 Inc. seg. avg. 0.428 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 33.2 21.1 Inc. frq. avg. 0.372 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 14.933 -1880.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fo..1305JH Output file: /Exps/c192a/v2/1234/No0001/fo.W.96.1305JH

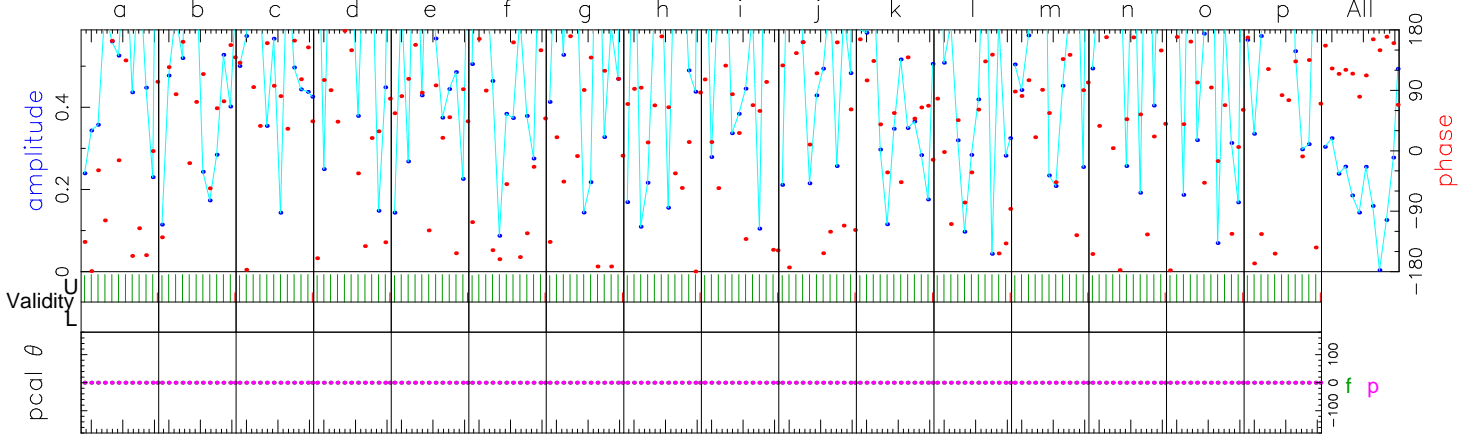


Fringe quality 0

SNR 6.1
Int time 138.827
Amp 0.196
Phase 127.7
PFD 1.4e-01
Delays (us)
SBD 0.375367
MBD 0.002788
Fringe rate (Hz) 0.295273
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

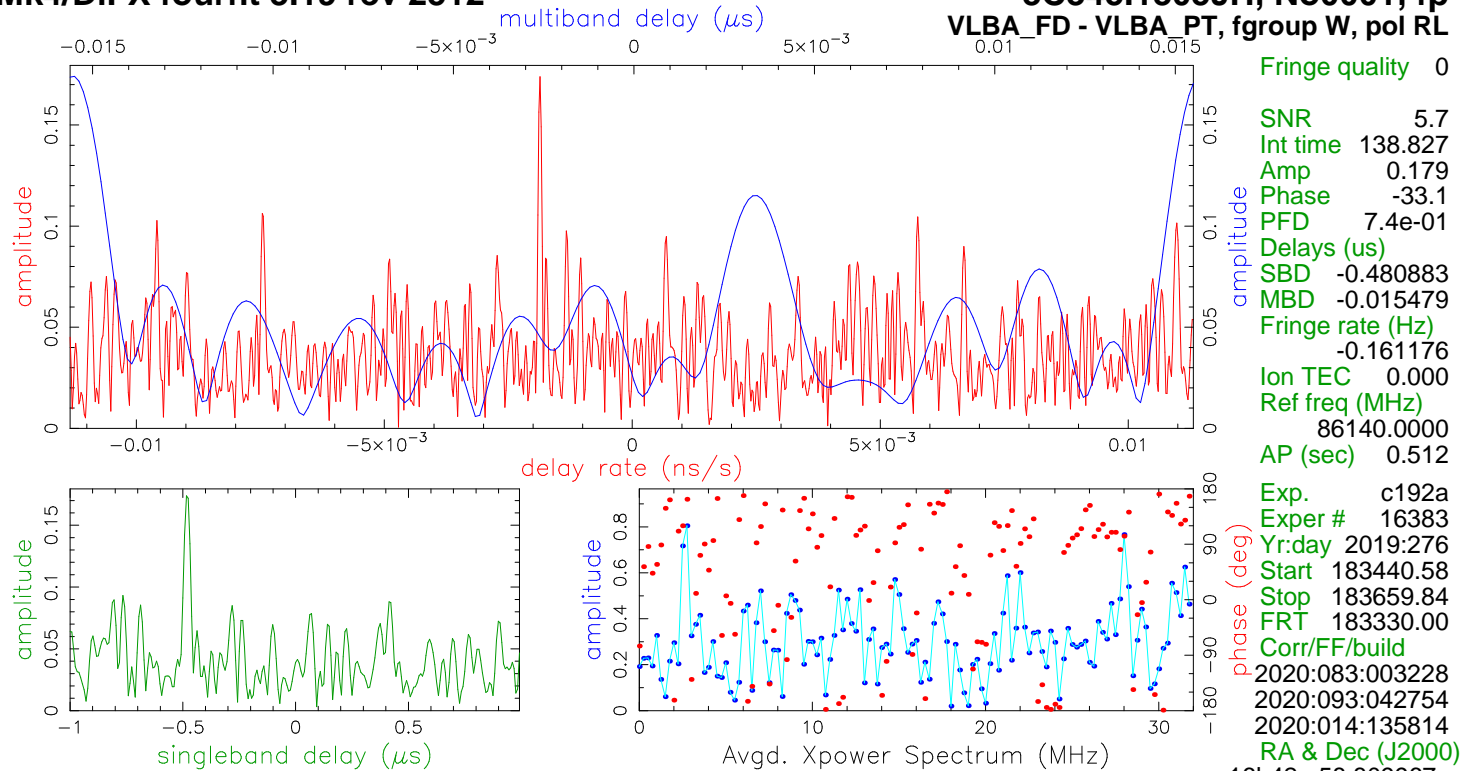
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183440.58
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042751
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec

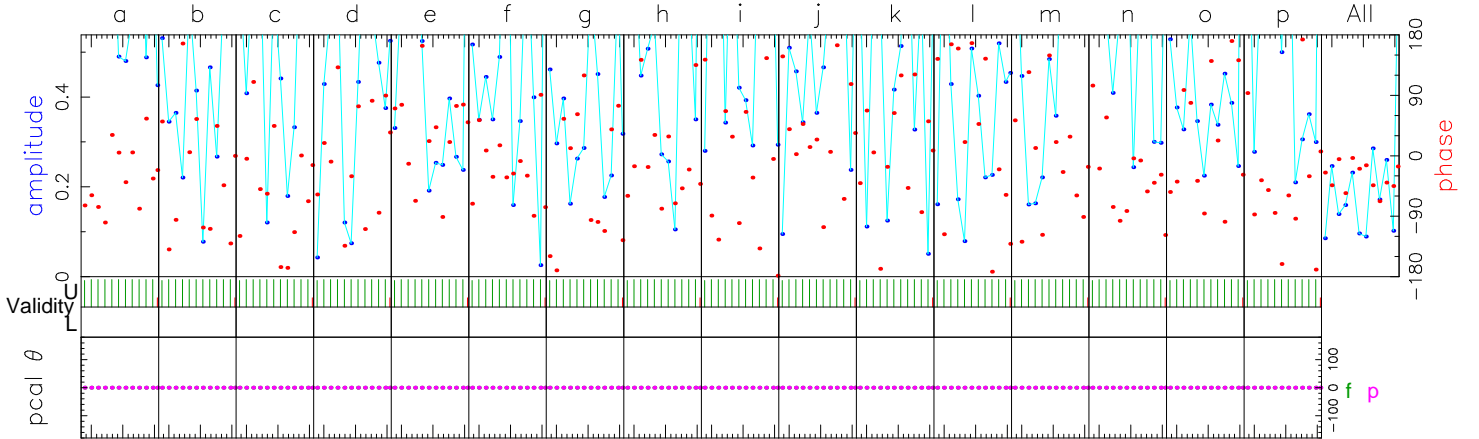


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-152.5	87.3	105.3	136.3	113.9	174.8	155.8	58.8	107.3	-179.2	90.1	102.7	94.8	159.4	130.2	138.7	Phase	127.7
	0.2	0.2	0.4	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.2	0.1	0.4	0.2	0.3	0.3	Ampl.	0.2
	246.4	143.9	159.3	174.8	129.6	73.2	66.4	94.4	17.4	246.0	184.3	6.5	218.9	211.1	151.2	226.8	Sbd box	177.0
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
Group delay (usec)(sbd)		4.00598812490E+02				Apriori delay (usec)		4.00221023997E+02				Resid mbdelay (usec)		2.78849E-03			+/-	1.8E-04
Sband delay (usec)		4.00596390997E+02				Apriori clock (usec)		-1.1451123E+01				Resid sbdelay (usec)		3.75367E-01			+/-	2.8E-03
Phase delay (usec)		4.00221028116E+02				Apriori clockrate (us/s)		-2.9483610E-07				Resid phdelay (usec)		4.11844E-06			+/-	6.1E-07
Delay rate (us/s)		7.88997442697E-03				Apriori rate (us/s)		7.88654660518E-03				Resid rate (us/s)		3.42782E-06			+/-	7.5E-09
Total phase (deg)				130.3		Apriori accel (us/s/s)		-6.08685133288E-06				Resid phase (deg)		127.7			+/-	18.8

ph/seg (deg) RMS Theor. Amplitude 0.196 +/- 0.032 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.1 56.9 Search (1024X64) 0.186 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.4 37.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 50.3 65.7 Inc. seg. avg. 0.192 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) -70.059 -764.932 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fp..1305JH Output file: /Exps/c192a/v2/1234/No0001/fp.W.104.1305JH simultaneous interpolator



Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-45.3	-41.8	-36.4	43.0	28.5	-27.6	-179.0	-25.4	-96.9	12.2	-21.8	-145.7	-20.8	-37.8	-21.5	-64.4		Phase	-33.1
	0.5	0.1	0.2	0.1	0.2	0.4	0.0	0.3	0.1	0.2	0.1	0.1	0.2	0.4	0.1	0.3		Ampl.	0.2
	68.4	28.9	83.8	1.5	49.4	185.2	95.6	42.7	181.2	1.5	32.0	156.1	176.5	138.2	118.8	185.0		Sbd box	67.4
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0		APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	

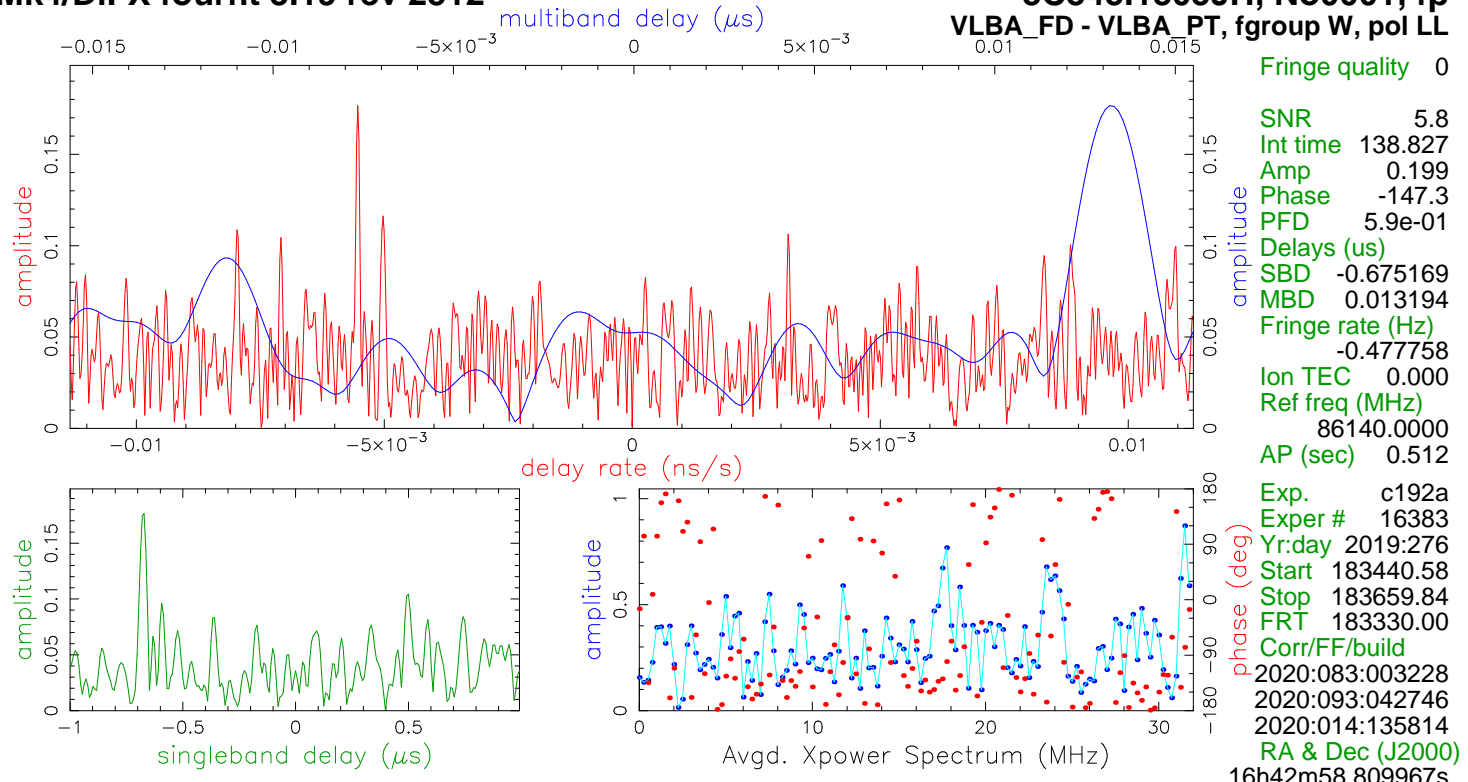
Group delay (usec)(sbd) 3.99736795248E+02 Apriori delay (usec) 4.00221023997E+02 Resid mbdelay (usec) -1.54787E-02 +/- 1.9E-04
 Sband delay (usec) 3.99740140997E+02 Apriori clock (usec) -1.1451123E+01 Resid sbdelay (usec) -4.80883E-01 +/- 3.0E-03
 Phase delay (usec) 4.00221022931E+02 Apriori clockrate (us/s) -2.9483610E-07 Resid phdelay (usec) -1.06630E-06 +/- 6.5E-07
 Delay rate (us/s) 7.88467551708E-03 Apriori rate (us/s) 7.88654660518E-03 Resid rate (us/s) -1.87109E-06 +/- 8.0E-09
 Total phase (deg) -30.5 Apriori accel (us/s/s) -6.08685133288E-06 Resid phase (deg) -33.1 +/- 20.0

RMS Theor. Amplitude 0.179 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 20.0 34.7 Search (1024X64) 0.169 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 61.1 60.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 60.6 40.1 Inc. seg. avg. 0.158 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 73.4 69.9 Inc. frq. avg. 0.169 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

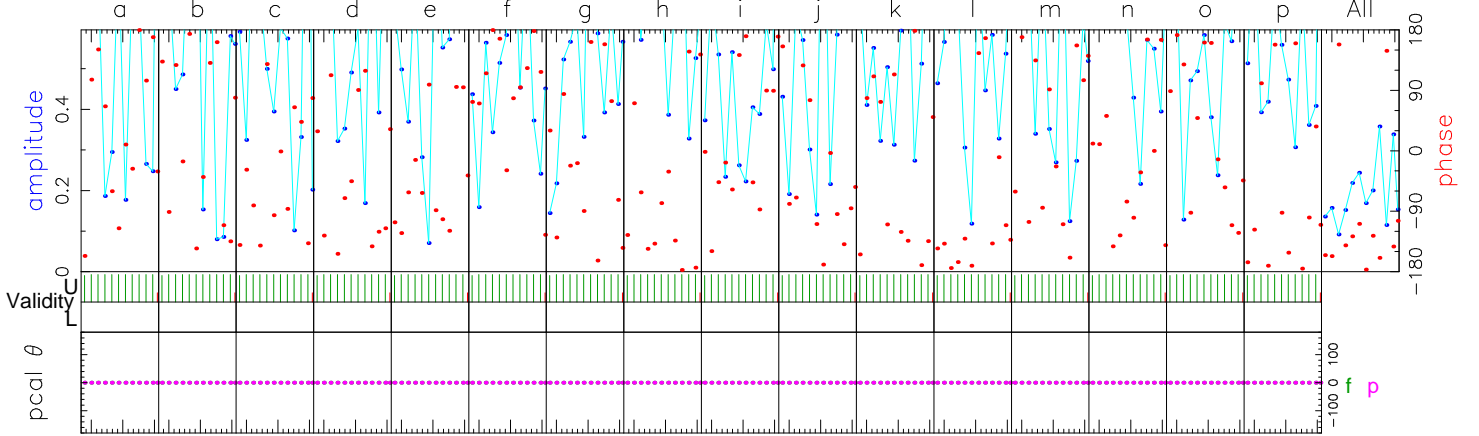
f: az 61.0 el 37.1 pa -78.2 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) -70.059 -764.932 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fp..1305JH Output file: /Exps/c192a/v2/1234/No0001/fp.W.113.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fp
VLBA_FD - VLBA_PT, fgroup W, pol LL



Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-164.9	-174.3	-109.2	-132.9	-83.4	112.2	168.3	-144.2	-107.1	-123.6	-162.6	-158.2	-139.2	-64.2	-146.4	-155.4	Phase	-147.3
	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.3	0.1	0.3	0.3	0.5	0.2	0.1	0.2	0.4	Ampl.	0.2
	3.7	80.2	80.4	24.9	24.7	18.9	121.5	100.0	160.0	161.9	76.0	42.8	72.7	73.3	123.1	10.7	Sbd box	42.6
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)		3.99546717689E+02								4.00221023997E+02							Resid mbdelay (usec)	1.31937E-02 +/- 1.9E-04
Sband delay (usec)		3.99545854997E+02								-1.1451123E+01							Resid sbdelay (usec)	-6.75169E-01 +/- 3.0E-03
Phase delay (usec)		4.00221019247E+02								-2.9483610E-07							Resid phdelay (usec)	-4.75047E-06 +/- 6.4E-07
Delay rate (us/s)		7.88100030664E-03								7.88654660518E-03							Resid rate (us/s)	-5.54630E-06 +/- 7.9E-09
Total phase (deg)					-144.8					-6.08685133288E-06							Resid phase (deg)	-147.3 +/- 19.8

ph/seg (deg) RMS Theor. Amplitude 0.199 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 31.5 34.3 Search (1024X64) 0.170 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

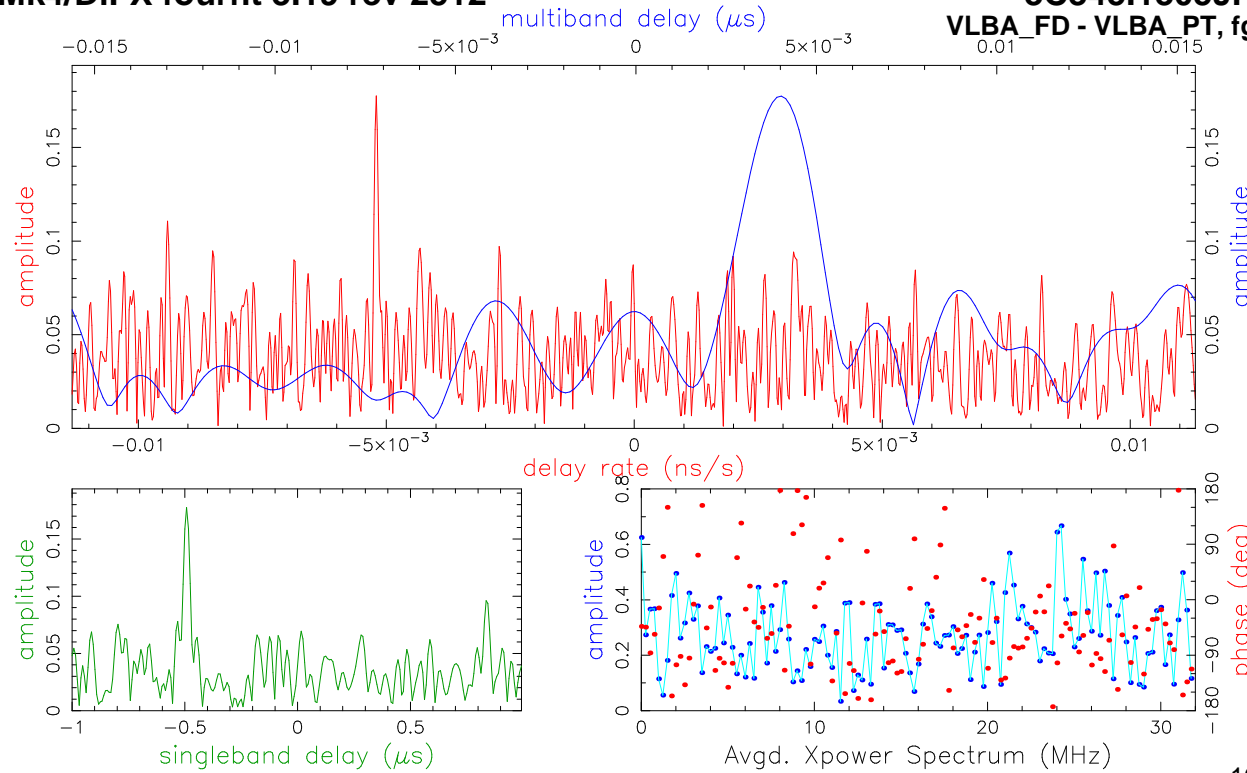
ph/frq (deg) 46.3 59.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 45.1 39.6 Inc. seg. avg. 0.185 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011

amp/frq (%) 60.8 69.1 Inc. frq. avg. 0.199 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) -70.059 -764.932 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fp..1305JH Output file: /Exps/c192a/v2/1234/No0001/fp.W.87.1305JH

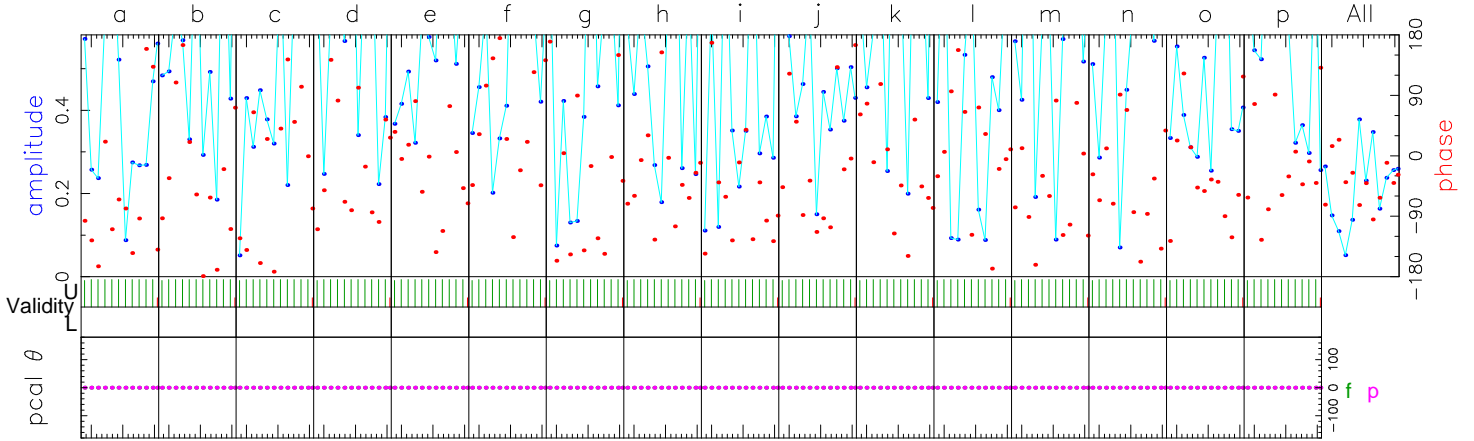


Fringe quality 0

SNR 5.7
Int time 138.827
Amp 0.194
Phase -48.9
PFD 7.4e-01
Delays (us)
SBD -0.492195
MBD 0.004009
Fringe rate (Hz)
-0.448036
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
2020:083:003228
2020:093:042749
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec

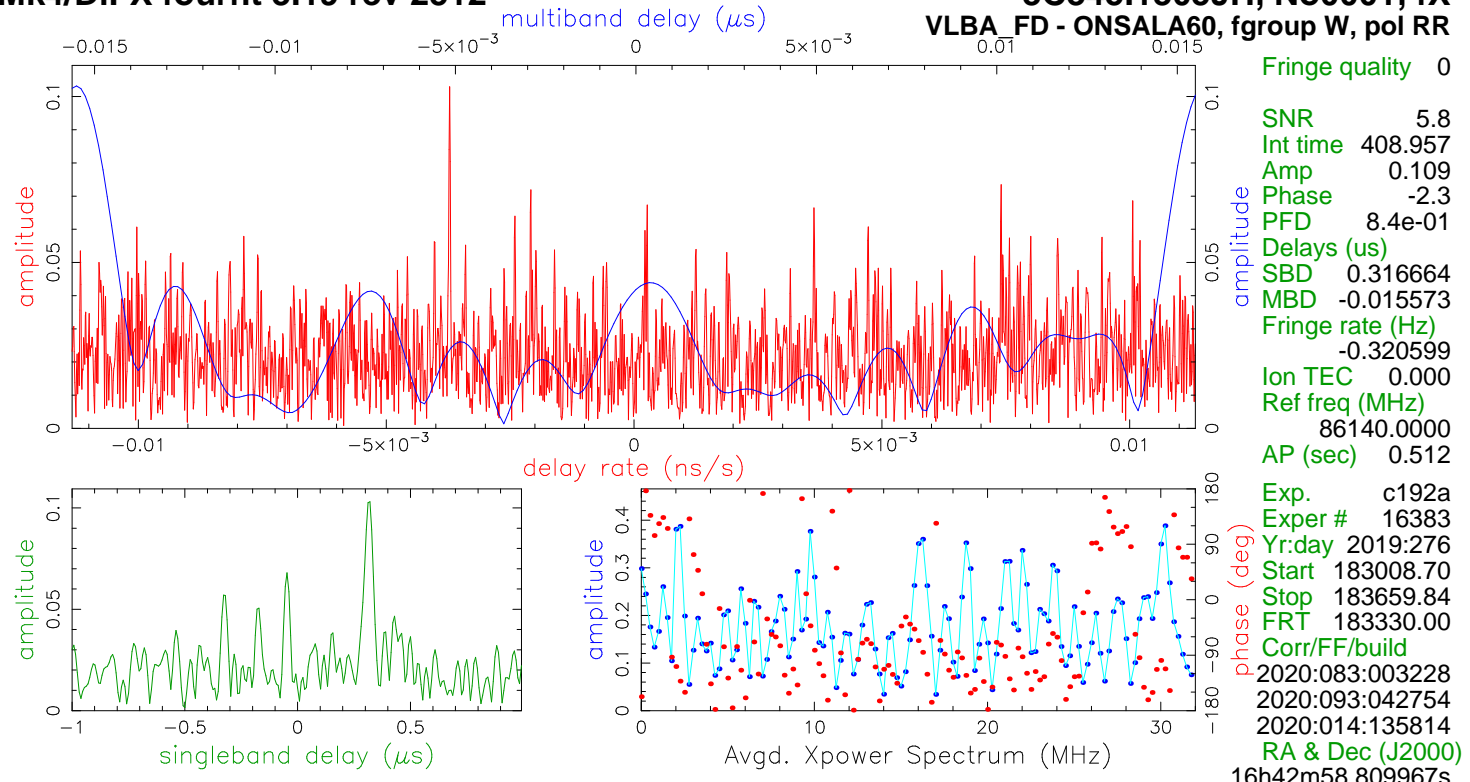


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-112.5	-52.8	64.7	-57.7	-20.6	28.2	-85.3	-48.6	-99.1	-47.2	-11.0	-4.7	-69.1	-70.0	-56.6	-35.6	Phase	-48.9
	0.2	0.2	0.2	0.3	0.1	0.1	0.4	0.3	0.2	0.2	0.2	0.4	0.3	0.3	0.3	0.3	Ampl.	0.2
	177.2	132.5	71.4	89.8	118.3	125.4	70.3	166.0	83.2	160.0	213.1	215.9	17.4	61.6	68.0	8.4	Sbd box	66.0
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

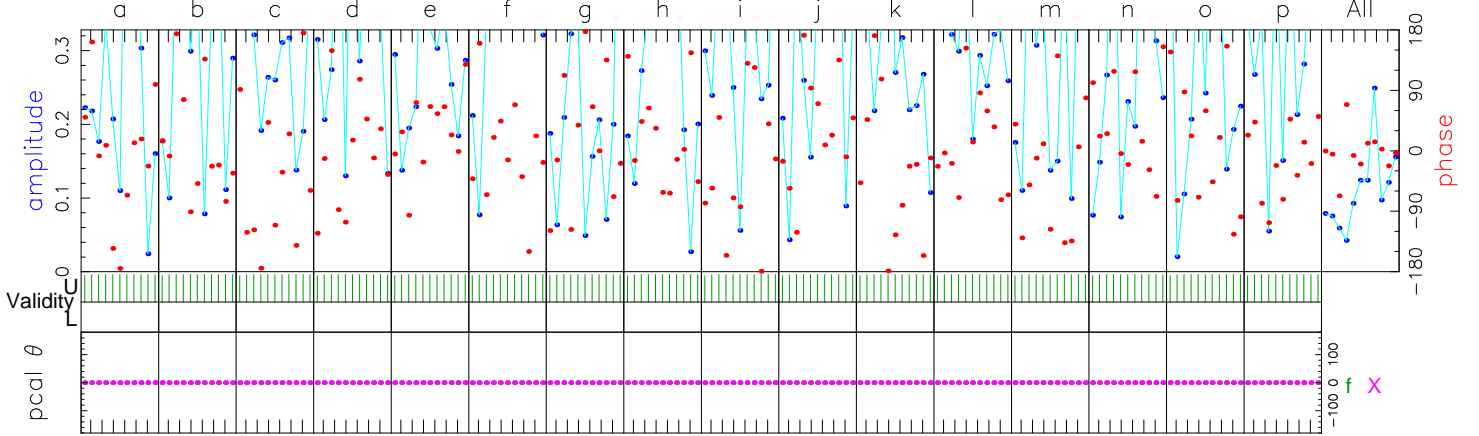
Group delay (usec)(sbd) 3.99725032944E+02 Apriori delay (usec) 4.00221023997E+02 Resid mbdelay (usec) 4.00895E-03 +/- 1.9E-04
 Sband delay (usec) 3.99728828497E+02 Apriori clock (usec) -1.1451123E+01 Resid sbdelay (usec) -4.92195E-01 +/- 3.0E-03
 Phase delay (usec) 4.00221022422E+02 Apriori clockrate (us/s) -2.9483610E-07 Resid phdelay (usec) -1.57538E-06 +/- 6.5E-07
 Delay rate (us/s) 7.88134535011E-03 Apriori rate (us/s) 7.88654660518E-03 Resid rate (us/s) -5.20126E-06 +/- 8.0E-09
 Total phase (deg) -46.3 Apriori accel (us/s/s) -6.08685133288E-06 Resid phase (deg) -48.9 +/- 20.0

RMS Theor. Amplitude 0.194 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 36.6 34.7 Search (1024X64) 0.173 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 56.8 60.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 47.9 40.1 Inc. seg. avg. 0.196 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 49.0 70.0 Inc. frq. avg. 0.196 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

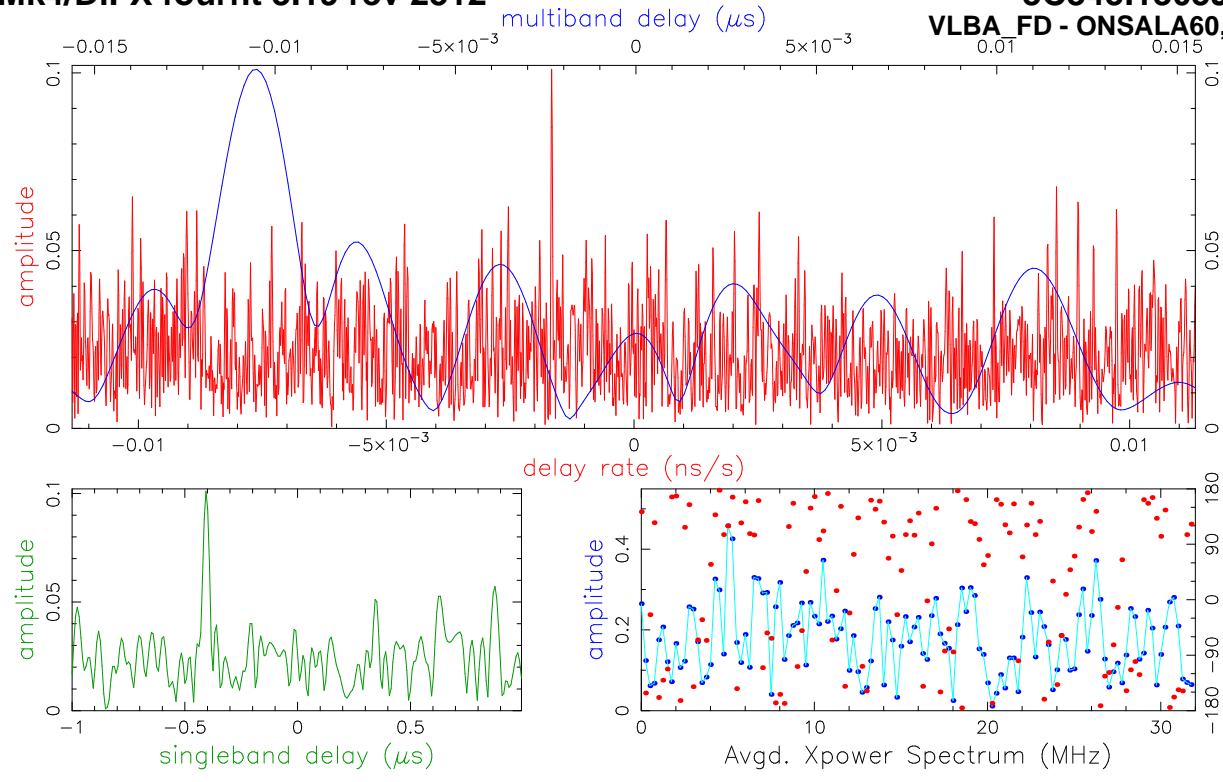
f: az 61.0 el 37.1 pa -78.2 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) -70.059 -764.932 simultaneous interpolator



Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-8.1	-25.3	-87.7	-2.7	33.3	-0.7	-16.2	-10.4	0.9	55.0	-119.4	-5.9	-13.1	29.2	-29.6	0.1	Phase	-2.3					
	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1					
	178.4	31.7	15.1	1.4	78.6	32.0	218.7	122.5	190.7	121.8	73.6	117.6	164.4	45.0	149.4	75.1	Sbd box	169.5					
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	APs used						
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase						
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC						
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp						
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids						
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks						
																	Chan ids						
																	Tracks						
Group delay (usec)(sbd)			-3.93433952517E+03														Apriori delay (usec)	-3.93466770219E+03	Resid mbdelay (usec)	-1.55730E-02	+/-	1.9E-04	
Sband delay (usec)			-3.93435103819E+03														Apriori clock (usec)	-3.1870474E+01	Resid sbdelay (usec)	3.16664E-01	+/-	3.0E-03	
Phase delay (usec)			-3.93466770226E+03														Apriori clockrate (us/s)	-6.1894950E-07	Resid phdelay (usec)	-7.41371E-08	+/-	6.4E-07	
Delay rate (us/s)			1.42989974672E+00														Apriori rate (us/s)	1.42990346855E+00	Resid rate (us/s)	-3.72183E-06	+/-	2.7E-09	
Total phase (deg)																	Apriori accel (us/s/s)	-3.28242095453E-06	Resid phase (deg)	-2.3	+/-	19.8	
		RMS	Theor.																PCal mode: MANUAL, MANUAL				
ph/seg (deg)		30.8	32.8																PCal rate: 0.000E+00, 0.000E+00 (us/s)				
amp/seg (%)		51.7	57.3																Bits/sample: 2x2				
ph/frq (deg)		44.9	39.6																SampCntNorm: enabled				
amp/frq (%)		53.7	69.1																Sample rate(MISamp/s): 64				
																			Data rate(Mb/s): 2048				
																			nlags: 128				
																			t_cohere infinite				
f: az 61.0 el 37.1 pa -78.2																			ion window (TEC)				
X: az 263.7 el 53.3 pa 44.2																							
u,v (fr/asec) -10665.569 -2352.321																							
Control file: cf_1234_gmva																							
Input file: /Exps/c192a/v2/1234/No0001/fX..1305JH																							
Output file: /Exps/c192a/v2/1234/No0001/fX.W.112.1305JH																							

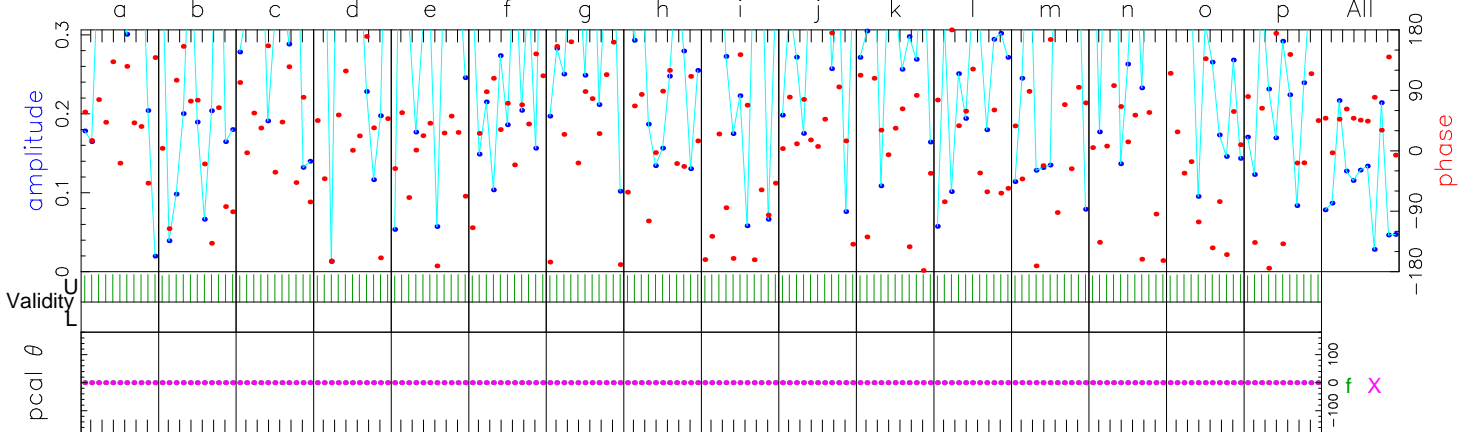


Fringe quality 0

SNR 5.6
Int time 408.957
Amp 0.102
Phase 43.2
PFD 9.9e-01
Delays (us)
SBD -0.405300
MBD -0.010533
Fringe rate (Hz)
-0.143190
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

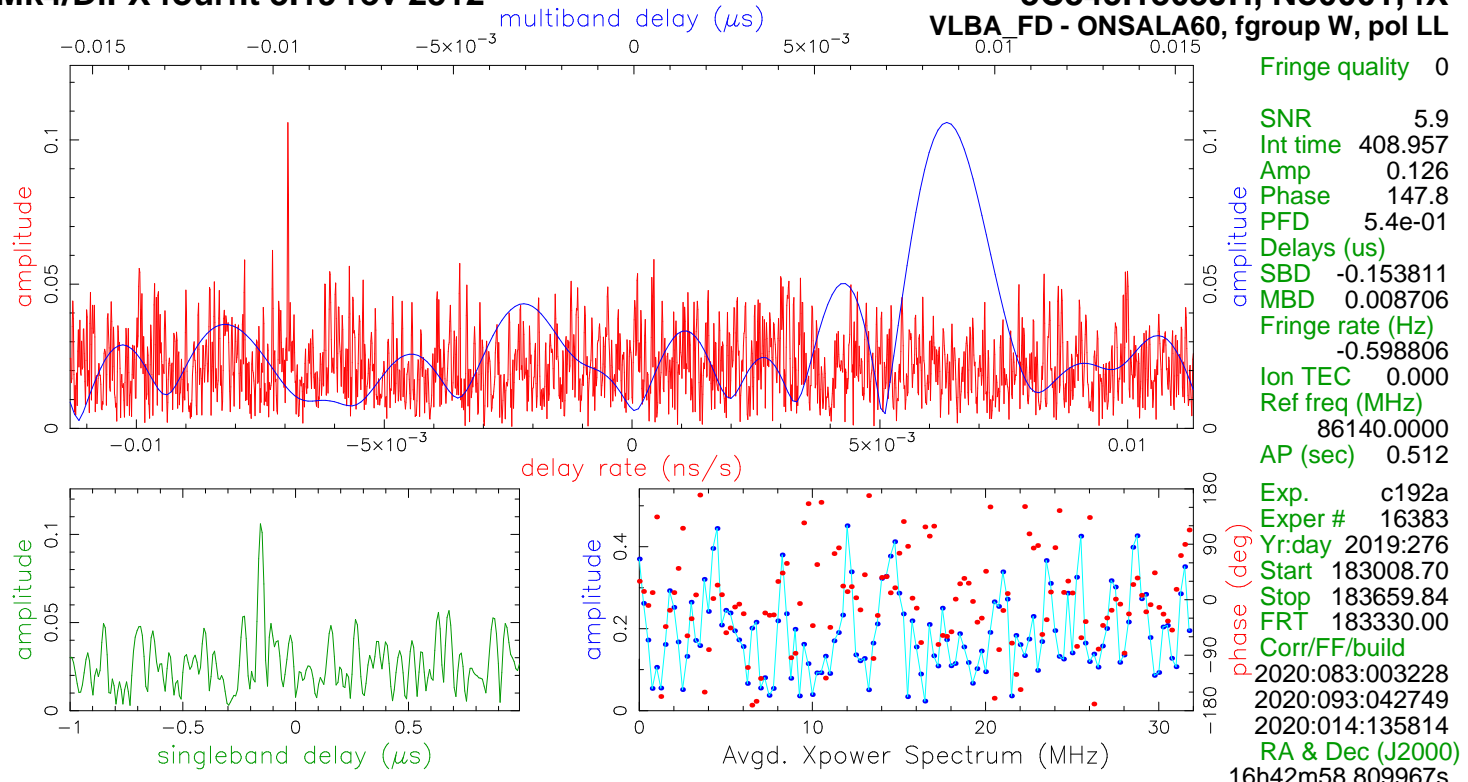
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042805
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0		APs used
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC amp
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		Chan ids
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		Tracks
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks
Group delay (usec)(sbd)	-3.93508448483E+03			Apriori delay (usec)			-3.93466770219E+03			Resid mbdelay (usec)			-1.05326E-02			+/- 1.9E-04		
Sband delay (usec)	-3.93507300269E+03			Apriori clock (usec)			-3.1870474E+01			Resid sbdelay (usec)			-4.05300E-01			+/- 3.1E-03		
Phase delay (usec)	-3.93466770079E+03			Apriori clockrate (us/s)			-6.1894950E-07			Resid phdelay (usec)			1.39229E-06			+/- 6.6E-07		
Delay rate (us/s)	1.42990180625E+00			Apriori rate (us/s)			1.42990346855E+00			Resid rate (us/s)			-1.66230E-06			+/- 2.8E-09		
Total phase (deg)	-268.7			Apriori accel (us/s/s)			-3.28242095453E-06			Resid phase (deg)			43.2			+/- 20.5		

ph/seg (deg) 37.9 33.9 Search (2048X64) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.3 59.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.3 40.9 Inc. seg. avg. 0.096 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 58.0 71.5 Inc. frq. avg. 0.107 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) -10665.569 -2352.321 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fX..1305JH Output file: /Exps/c192a/v2/1234/No0001/fX.W.154.1305JH



Fringe quality 0

SNR 5.9

Int time 408.957

Amp 0.126

Phase 147.8

PFD 5.4e-01

Delays (us)

SBD -0.153811

MBD 0.008706

Fringe rate (Hz)

-0.598806

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183008.70

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:083:003228

2020:093:042749

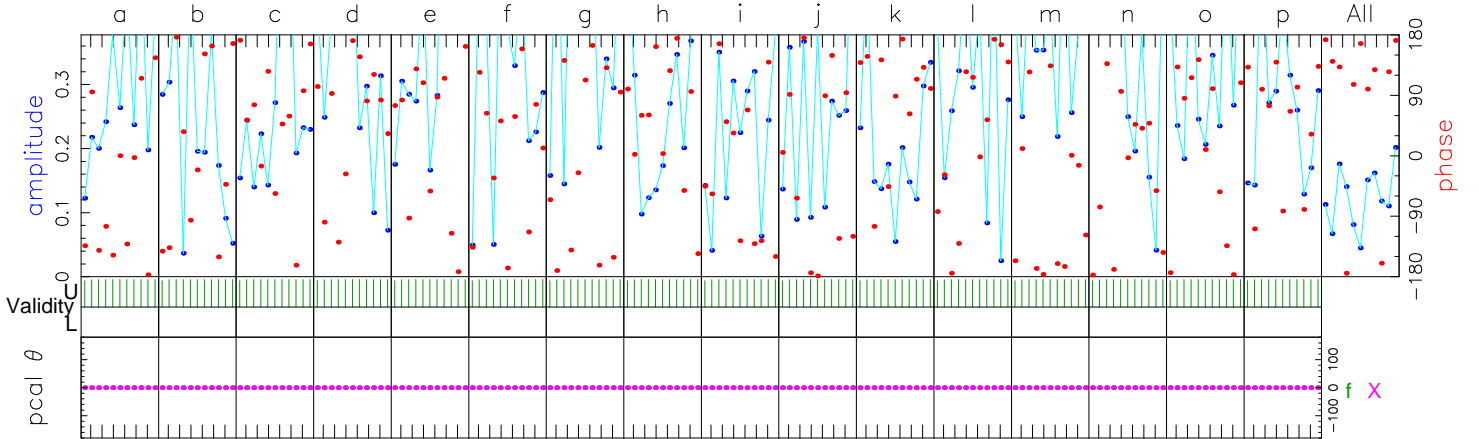
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-175.3	-149.9	65.6	128.1	141.6	95.6	167.6	115.7	-178.3	177.6	133.6	165.3	-167.9	146.4	140.2	102.2		Phase 147.8					
	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1		Ampl. 0.1					
	149.3	161.8	126.7	81.4	86.7	144.0	241.7	222.9	246.9	21.1	124.9	150.1	184.2	233.6	211.2	243.3		Sbd box 109.3					
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0		APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids					
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-3.93481524612E+03															Apriori delay (usec)	-3.93466770219E+03	Resid mbdelay (usec)	8.70607E-03	+/-	1.8E-04
Sband delay (usec)			-3.93482151269E+03															Apriori clock (usec)	-3.1870474E+01	Resid sbdelay (usec)	-1.53811E-01	+/-	2.9E-03
Phase delay (usec)			-3.93466769742E+03															Apriori clockrate (us/s)	-6.1894950E-07	Resid phdelay (usec)	4.76611E-06	+/-	6.2E-07
Delay rate (us/s)			1.42989651701E+00															Apriori rate (us/s)	1.42990346855E+00	Resid rate (us/s)	-6.95154E-06	+/-	2.6E-09
Total phase (deg)																		Apriori accel (us/s/s)	-3.28242095453E-06	Resid phase (deg)	147.8	+/-	19.3

ph/seg (deg) 31.6 32.0 Amplitude 0.126 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

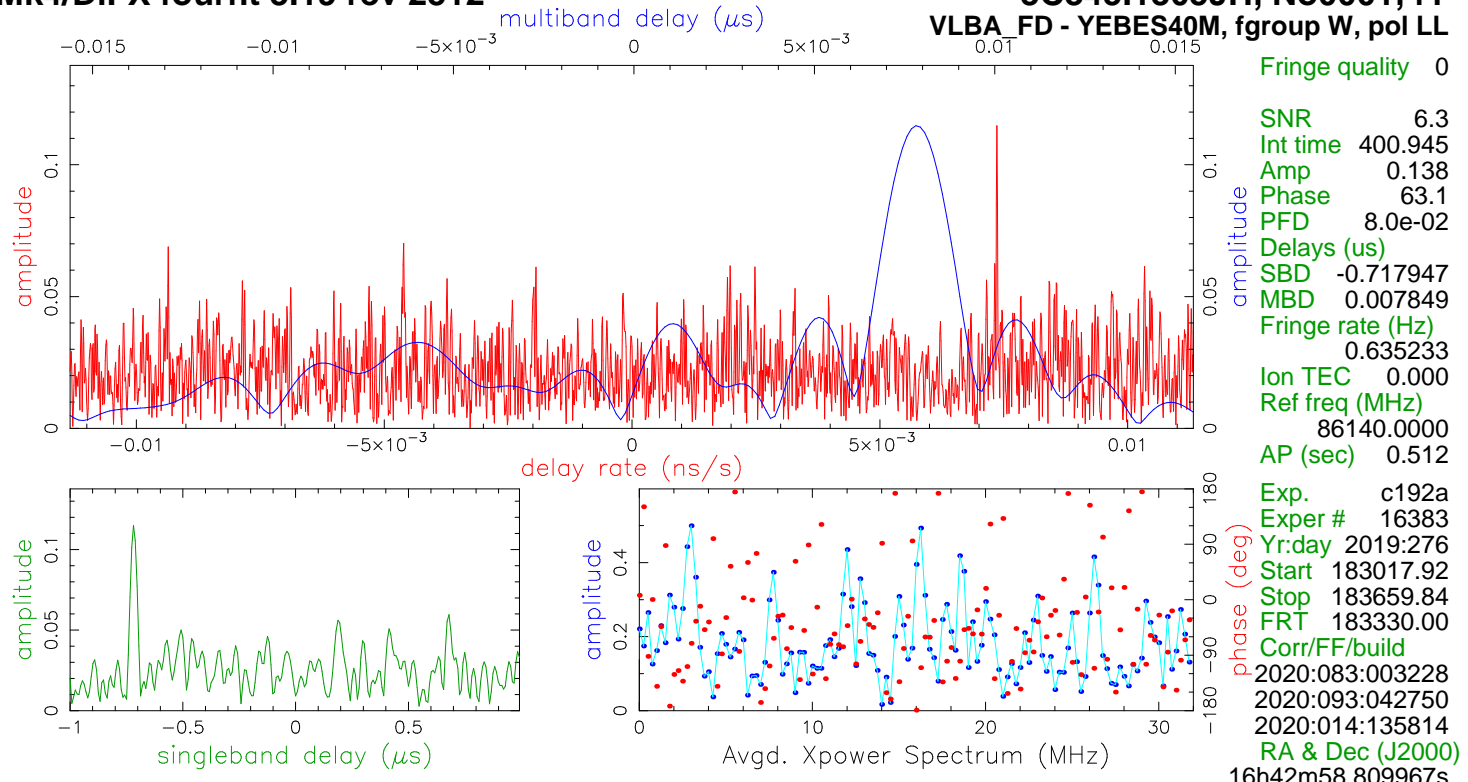
amp/seg (%) 45.4 55.9 Search (2048X64) 0.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 40.7 38.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

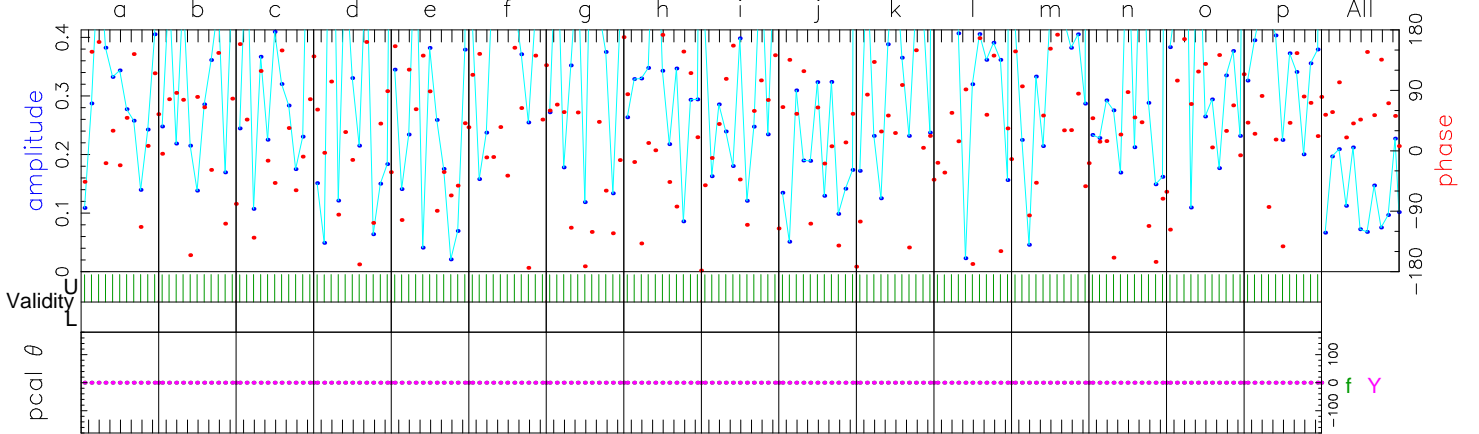
amp/frq (%) 44.2 67.4 Inc. seg. avg. 0.126 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011

f: az 61.0 el 37.1 pa -78.2 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) -10665.569 -2352.321 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fX..1305JH Output file: /Exps/c192a/v2/1234/No0001/fX.W.95.1305JH simultaneous interpolator



Amp. and Phase vs. time for each freq., 12 segs, 71 APs / seg (36.35 sec / seg.), time ticks 60 sec



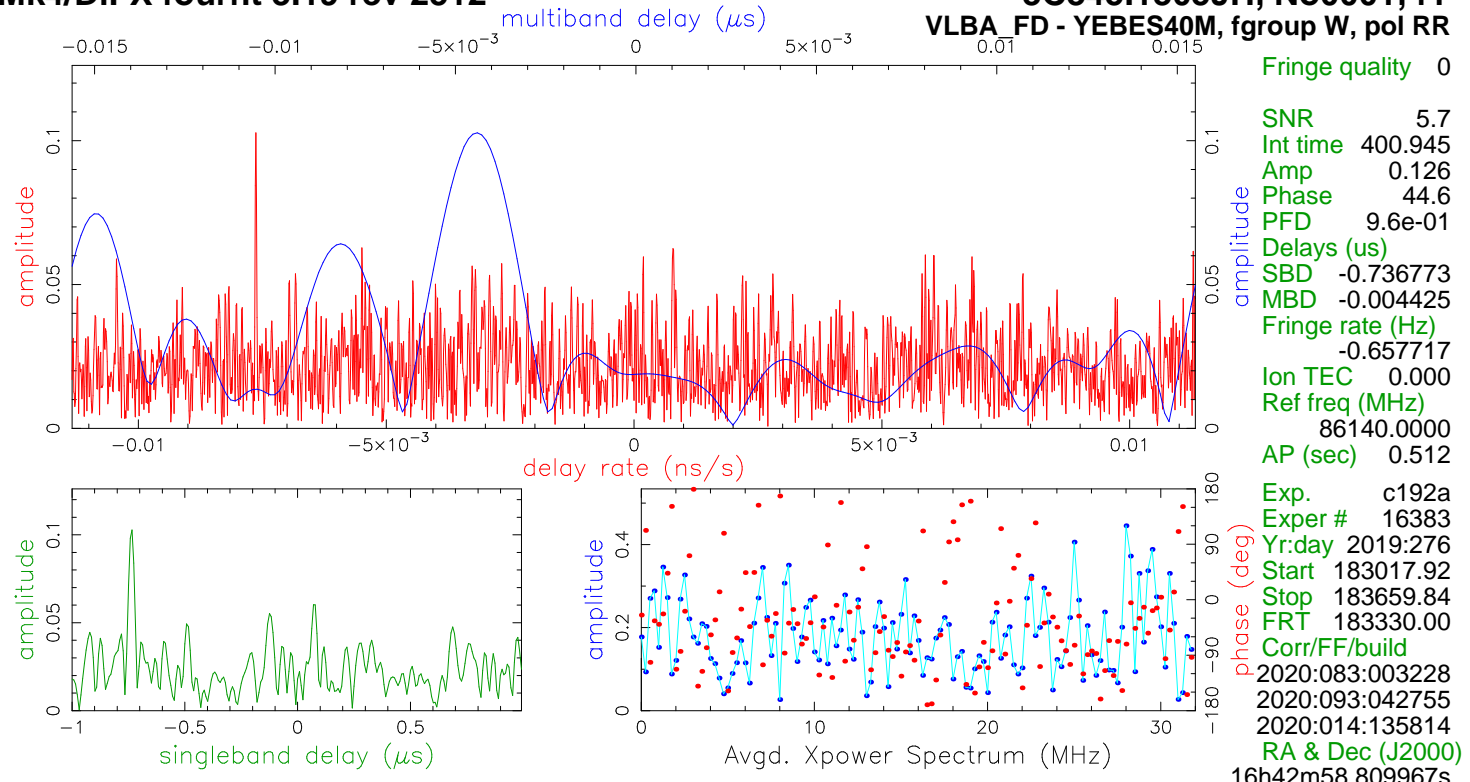
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
69.7	76.2	58.7	85.5	71.1	65.7	14.6	-1.4	77.8	48.3	64.2	38.9	85.0	42.8	113.7	47.3		Phase	63.1
0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.1
72.2	34.5	92.0	224.9	255.1	102.8	143.4	25.1	165.2	231.2	191.0	53.6	199.0	249.8	61.5	163.9		Sbd box	37.1
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	

Group delay (usec)(sbd)	-5.80435965466E+03	Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	7.84928E-03	+/-	1.7E-04
Sband delay (usec)	-5.80436670143E+03	Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	-7.17947E-01	+/-	2.7E-03
Phase delay (usec)	-5.80364875190E+03	Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	2.03501E-06	+/-	5.9E-07
Delay rate (us/s)	1.46606996194E+00	Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	7.37442E-06	+/-	2.5E-09
Total phase (deg)		Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	63.1	+/-	18.2

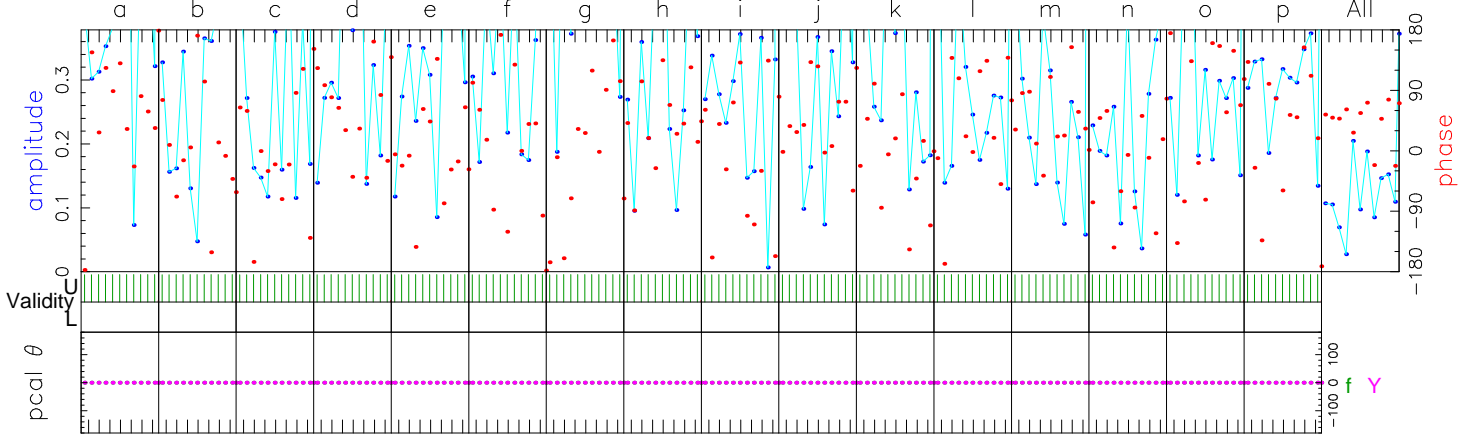
ph/seg (deg)	RMS	Theor.	Amplitude	0.138 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	39.3	31.5	Search (2048X64)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	56.7	55.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016	
amp/frq (%)	29.3	36.4	Inc. seg. avg.	0.140	Sample rate(MISamp/s): 64		dr window (ns/s)	-0.011 0.011	
	33.1	63.5	Inc. frq. avg.	0.127	Data rate(Mb/s): 2048	nlags: 128	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) -10890.829 532.173 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fY...1305JH Output file: /Exps/c192a/v2/1234/No0001/fY.W.103.1305JH



Amp. and Phase vs. time for each freq., 12 segs, 71 APs / seg (36.35 sec / seg.), time ticks 60 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All						
84.4	-0.3	25.4	40.0	-7.1	85.5	105.6	67.8	81.3	41.6	11.0	46.3	50.3	-21.3	162.5	85.9	Phase	44.6						
0.3	0.2	0.1	0.3	0.2	0.0	0.1	0.2	0.0	0.3	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1						
36.0	112.1	208.5	66.1	117.0	115.3	186.2	155.4	70.3	187.6	80.2	49.2	245.2	234.6	249.9	107.2	Sbd box	34.7						
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used							
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs							
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase							
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC							
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp							
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids							
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks							
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids						
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks						
Group delay (usec)(sbd)			-5.80437192887E+03														Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	-4.42493E-03	+/-	1.9E-04	
Sband delay (usec)			-5.80438552693E+03															Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	-7.36773E-01	+/-	3.0E-03
Phase delay (usec)			-5.80364875250E+03															Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	1.43711E-06	+/-	6.5E-07
Delay rate (us/s)			1.46605495207E+00															Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	-7.63545E-06	+/-	2.8E-09
Total phase (deg)																		Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	44.6	+/-	20.1

ph/seg (deg) RMS Theor. Amplitude 0.126 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

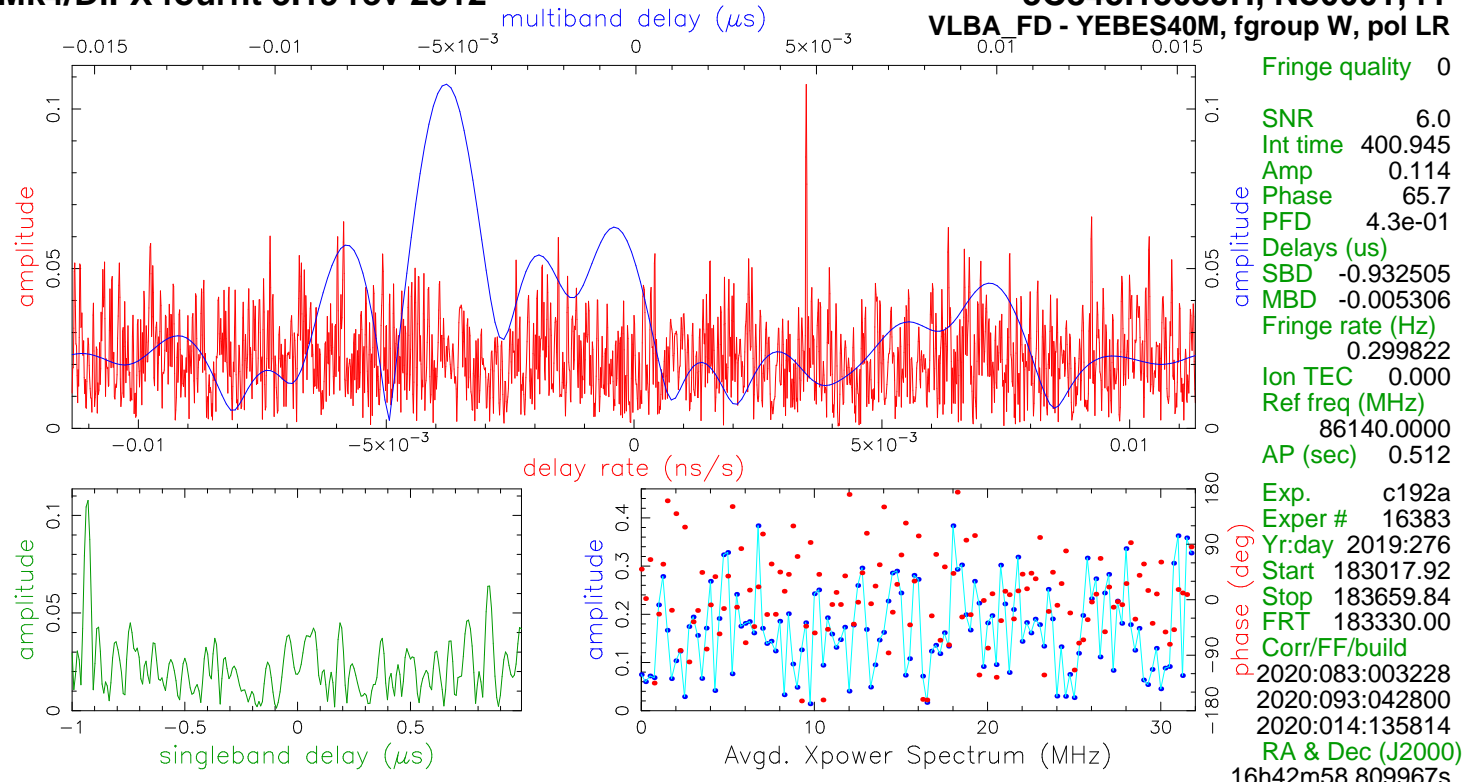
amp/seg (%) 52.5 60.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 50.1 40.3 Inc. seg. avg. 0.122 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

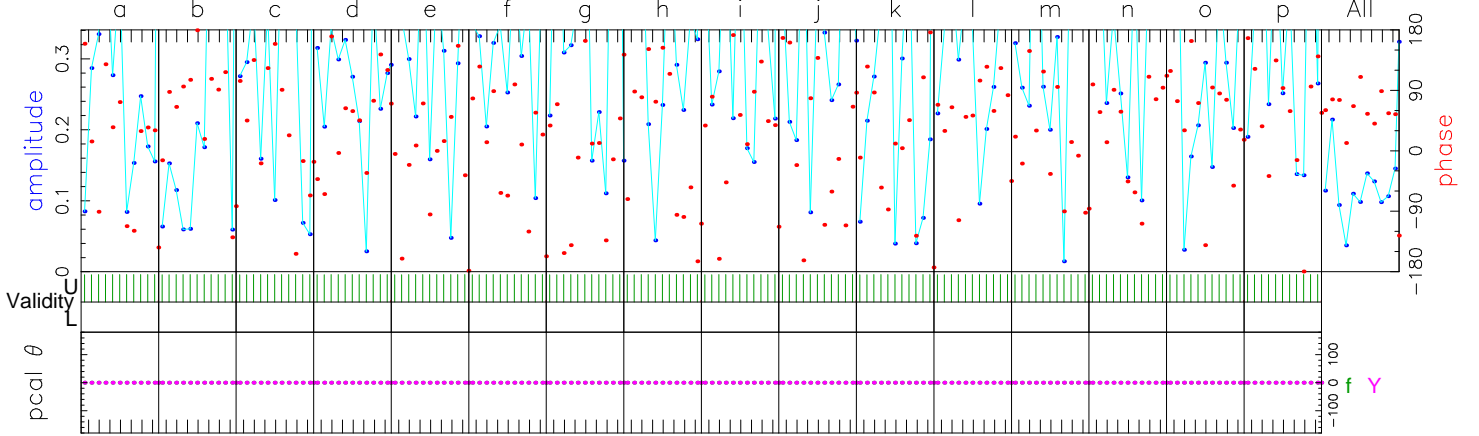
amp/frq (%) 72.5 70.3 Inc. frq. avg. 0.129 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011

f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) -10890.829 532.173 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fY...1305JH Output file: /Exps/c192a/v2/1234/No0001/fY.W.122.1305JH



Amp. and Phase vs. time for each freq., 12 segs, 71 APs / seg (36.35 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0							
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0							
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000							
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids					
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks					
Group delay (usec)(sbd)			-5.80459155993E+03															Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	-5.30599E-03	+/-	1.8E-04
Sband delay (usec)			-5.80458125893E+03															Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	-9.32505E-01	+/-	2.9E-03
Phase delay (usec)			-5.80364875181E+03															Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	2.11977E-06	+/-	6.2E-07
Delay rate (us/s)			1.46606606816E+00															Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	3.48064E-06	+/-	2.7E-09
Total phase (deg)																		Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	65.7	+/-	19.2

ph/seg (deg) 27.2 33.2 Theor. Amplitude 0.114 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

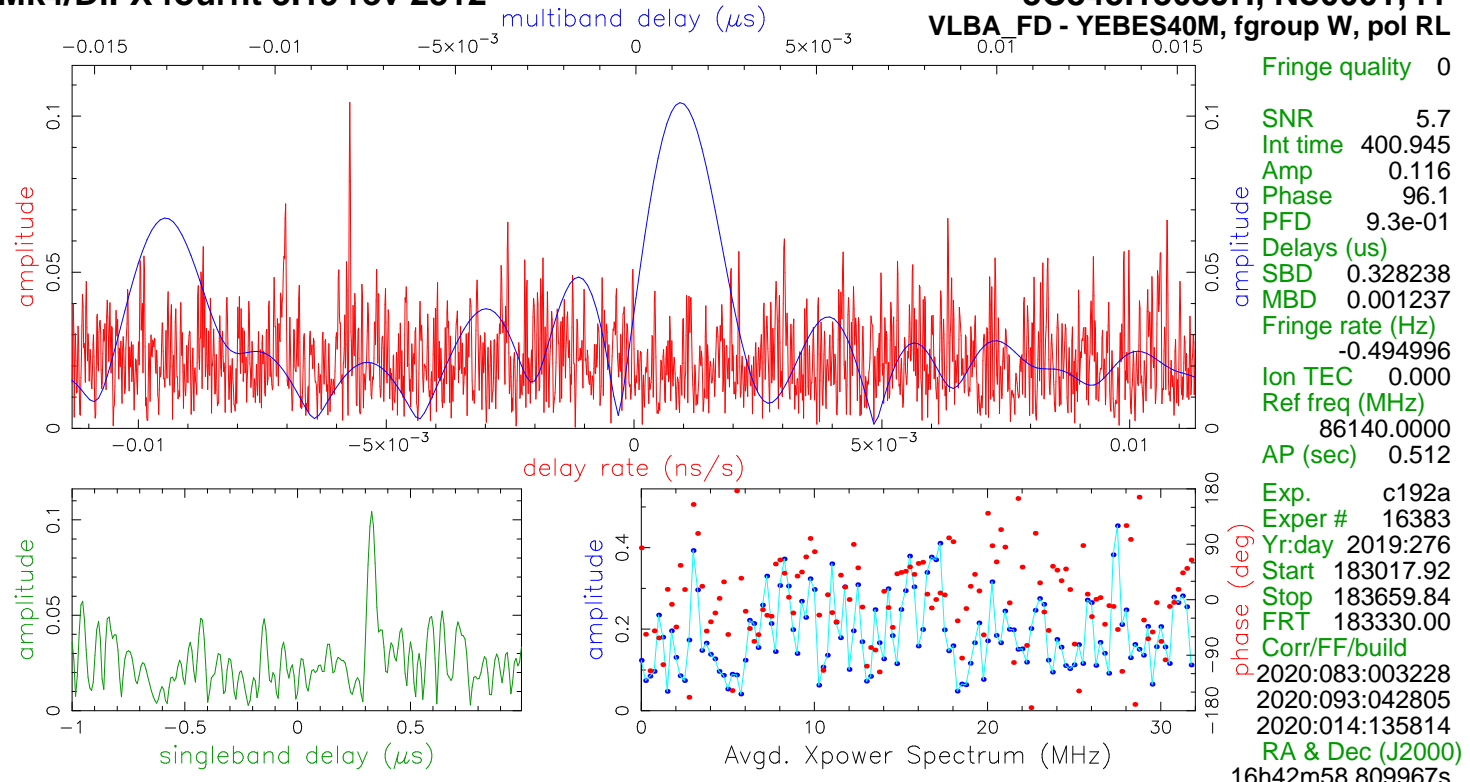
amp/seg (%) 40.6 57.9 Search (2048X64) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 57.5 38.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

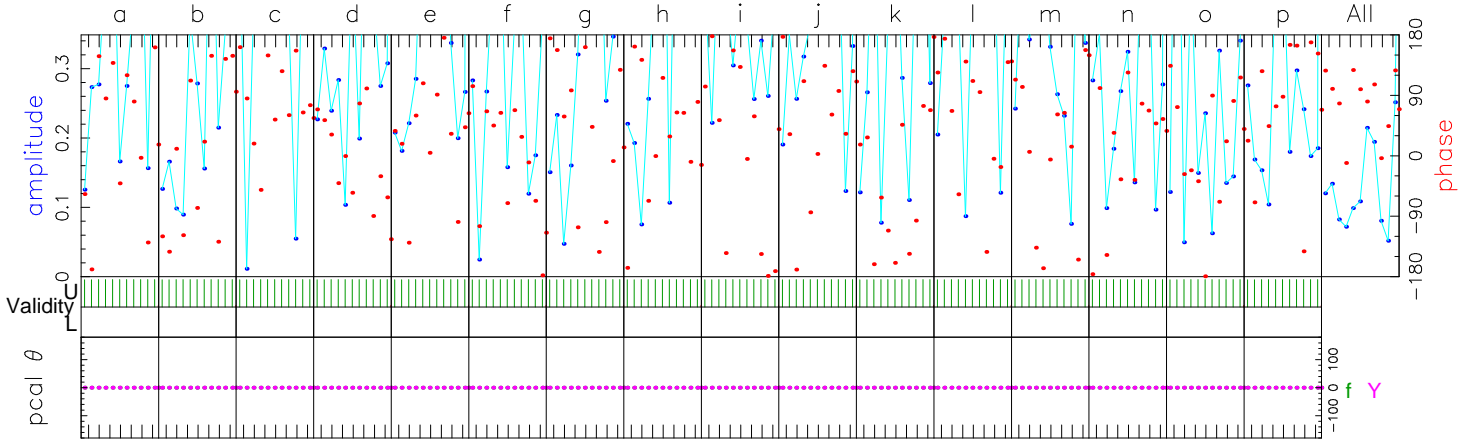
amp/frq (%) 56.4 66.9 Inc. seg. avg. 0.105 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011

f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) -10890.829 532.173 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fY..1305JH Output file: /Exps/c192a/v2/1234/No0001/fY.W.139.1305JH simultaneous interpolator

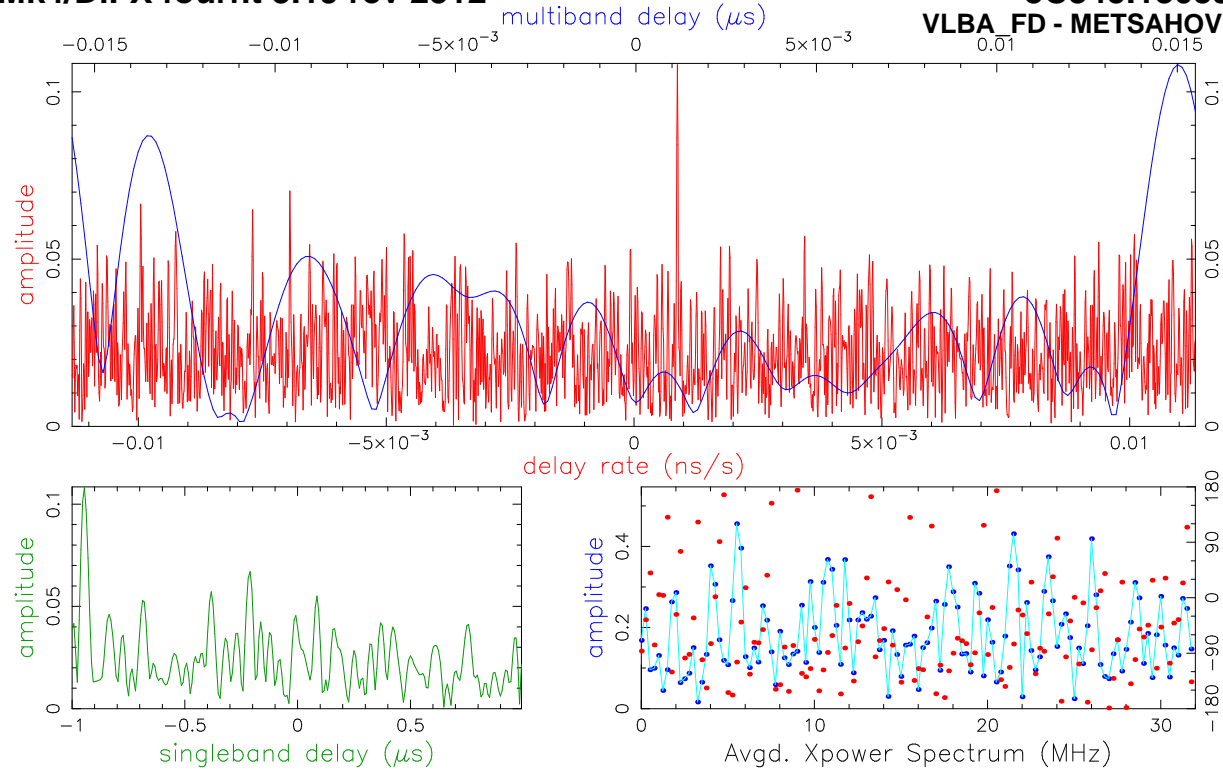


Amp. and Phase vs. time for each freq., 12 segs, 71 APs / seg (36.35 sec / seg.), time ticks 60 sec



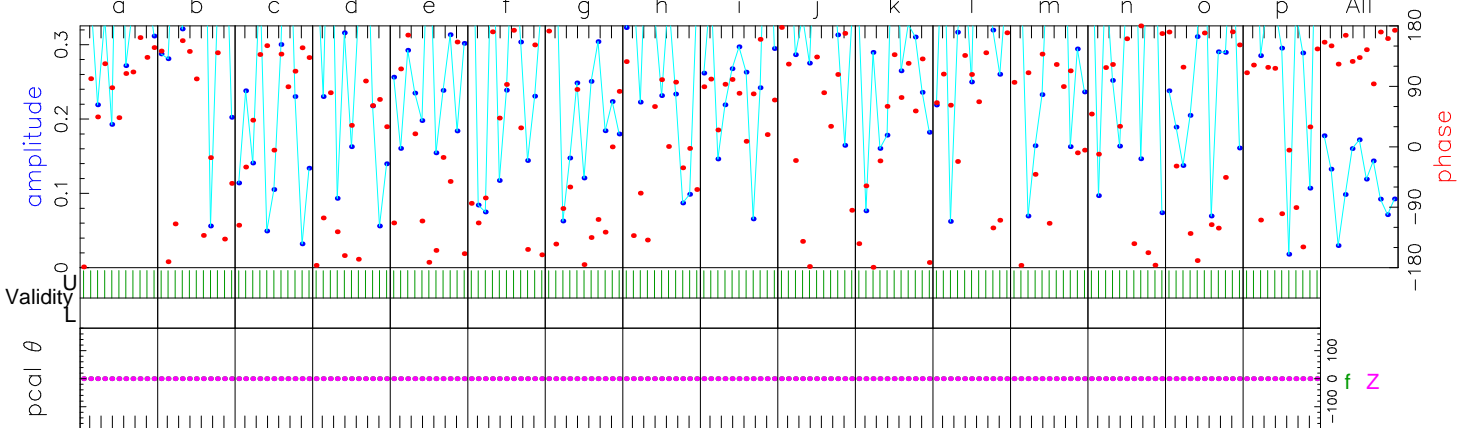
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
119.5	160.7	87.8	-1.0	67.7	56.2	159.4	62.4	141.3	97.0	-172.2	111.3	139.5	74.0	53.8	111.7	111.7	Phase	96.1				
0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1				
132.1	211.0	242.7	95.5	78.1	198.4	151.2	244.1	247.7	145.1	13.5	121.1	212.2	181.2	5.9	18.2	18.2	Sbd box	171.0				
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-5.80333501724E+03														Apriori delay (usec)	-5.80364875393E+03	Resid mbdelay (usec)	1.23669E-03	+/-	1.9E-04
Sband delay (usec)			-5.80332051643E+03														Apriori clock (usec)	-9.1971989E+00	Resid sbdelay (usec)	3.28238E-01	+/-	3.0E-03
Phase delay (usec)			-5.80364875084E+03														Apriori clockrate (us/s)	-3.1094951E-07	Resid phdelay (usec)	3.09835E-06	+/-	6.5E-07
Delay rate (us/s)			1.46605684111E+00														Apriori rate (us/s)	1.46606258752E+00	Resid rate (us/s)	-5.74641E-06	+/-	2.8E-09
Total phase (deg)																	Apriori accel (us/s/s)	2.06987568677E-05	Resid phase (deg)	96.1	+/-	20.1

ph/seg (deg) 50.0 34.7 Search (2048X64) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.4 60.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.3 40.1 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 50.2 70.0 Inc. frq. avg. 0.124 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) -10890.829 532.173 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fY..1305JH Output file: /Exps/c192a/v2/1234/No0001/fY.W.157.1305JH simultaneous interpolator



Fringe quality 0
SNR 6.0
Int time 410.089
Amp 0.108
Phase 143.7
PFD 4.1e-01
Delays (us)
SBD -0.946380
MBD 0.015016
Fringe rate (Hz) 0.075701
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042750
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

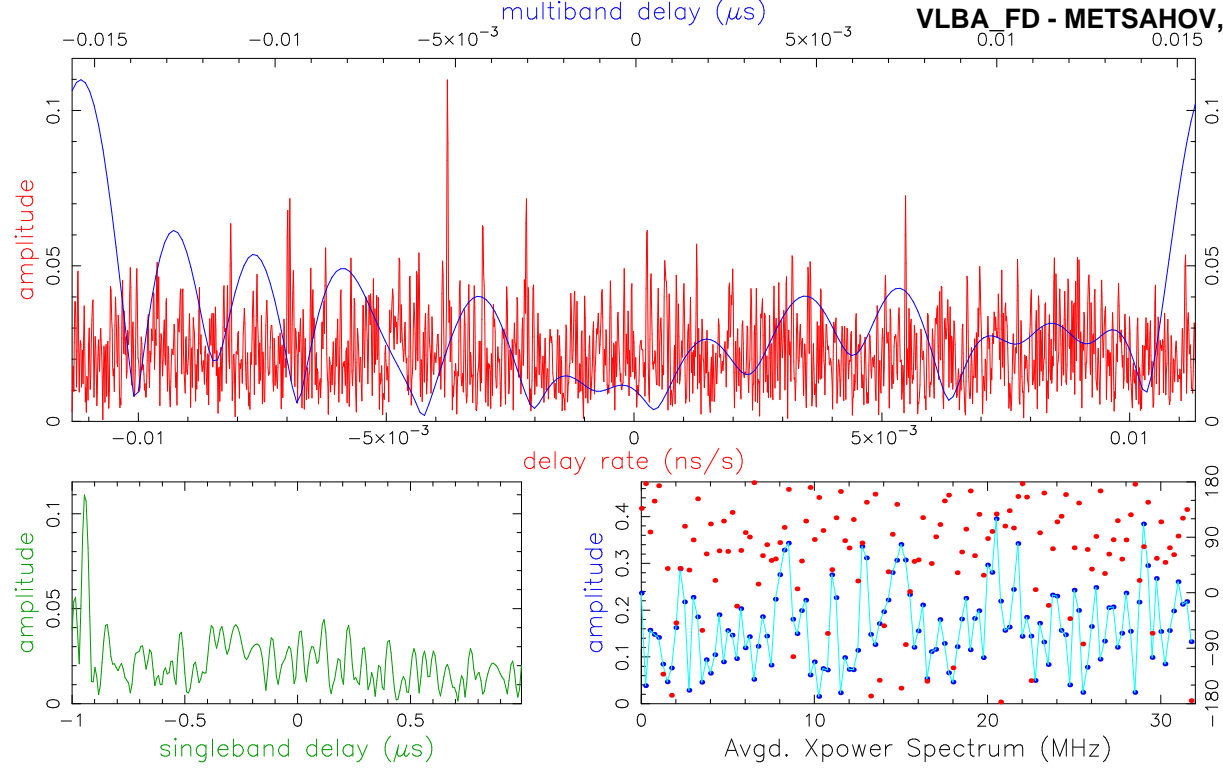
Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	117.4	-171.2	106.9	126.0	-147.3	-168.9	-148.3	-69.7	69.6	129.0	129.7	116.1	111.3	161.1	-165.6	152.0	Phase	143.7
	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	49.7	6.6	42.6	250.3	107.1	98.9	98.8	26.9	8.0	206.8	102.1	114.1	119.5	113.4	59.0	106.9	Sbd box	7.9
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

Group delay (usec)(sbd) -2.32640498470E+03 Apriori delay (usec) -2.32545125044E+03 Resid mbdelay (usec) 1.50157E-02 +/- 1.8E-04
 Sband delay (usec) -2.32639763044E+03 Apriori clock (usec) 2.7257115E-01 Resid sbdelay (usec) -9.46380E-01 +/- 2.9E-03
 Phase delay (usec) -2.32545124580E+03 Apriori clockrate (us/s) -1.0724231E-07 Resid phdelay (usec) 4.63239E-06 +/- 6.2E-07
 Delay rate (us/s) 1.45923820482E+00 Apriori rate (us/s) 1.45923732601E+00 Resid rate (us/s) 8.78808E-07 +/- 2.6E-09
 Total phase (deg) -112.9 Apriori accel (us/s/s) -1.35162140689E-05 Resid phase (deg) 143.7 +/- 19.1

ph/seg (deg) 23.2 31.7 RMS Theor. Amplitude 0.108 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.1 55.3 Search (2048X64) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.7 38.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 60.5 66.8 Inc. seg. avg. 0.102 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) -10902.077 -3193.061 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fZ..1305JH Output file: /Exps/c192a/v2/1234/No0001/fZ.W.102.1305JH simultaneous interpolator

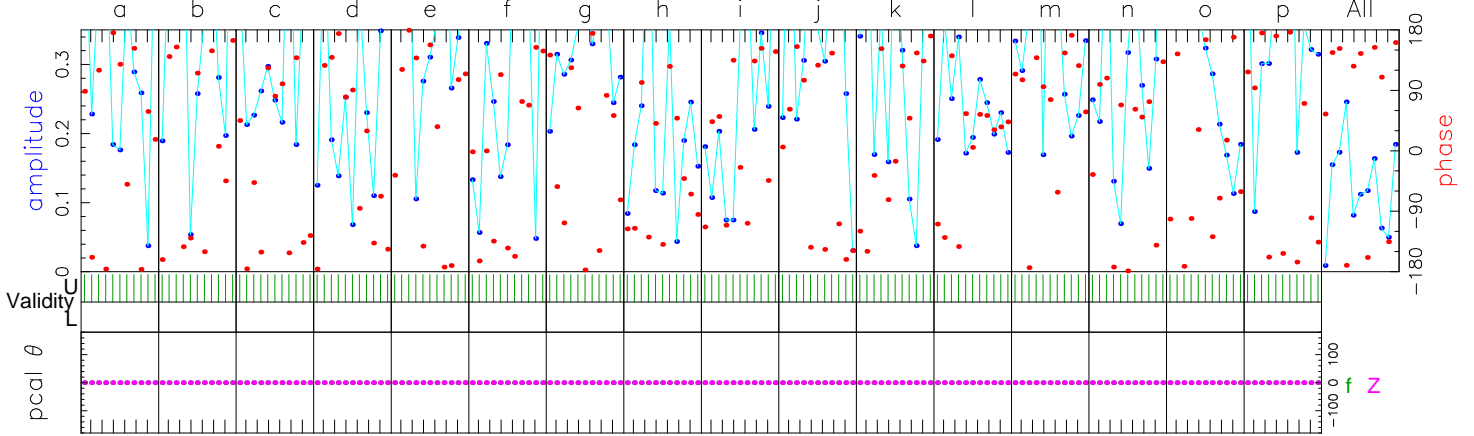


Fringe quality 0

SNR 6.2
Int time 410.089
Amp 0.117
Phase 161.7
PFD 1.6e-01
Delays (us)
SBD -0.942438
MBD -0.015355
Fringe rate (Hz)
-0.324600
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042756
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec

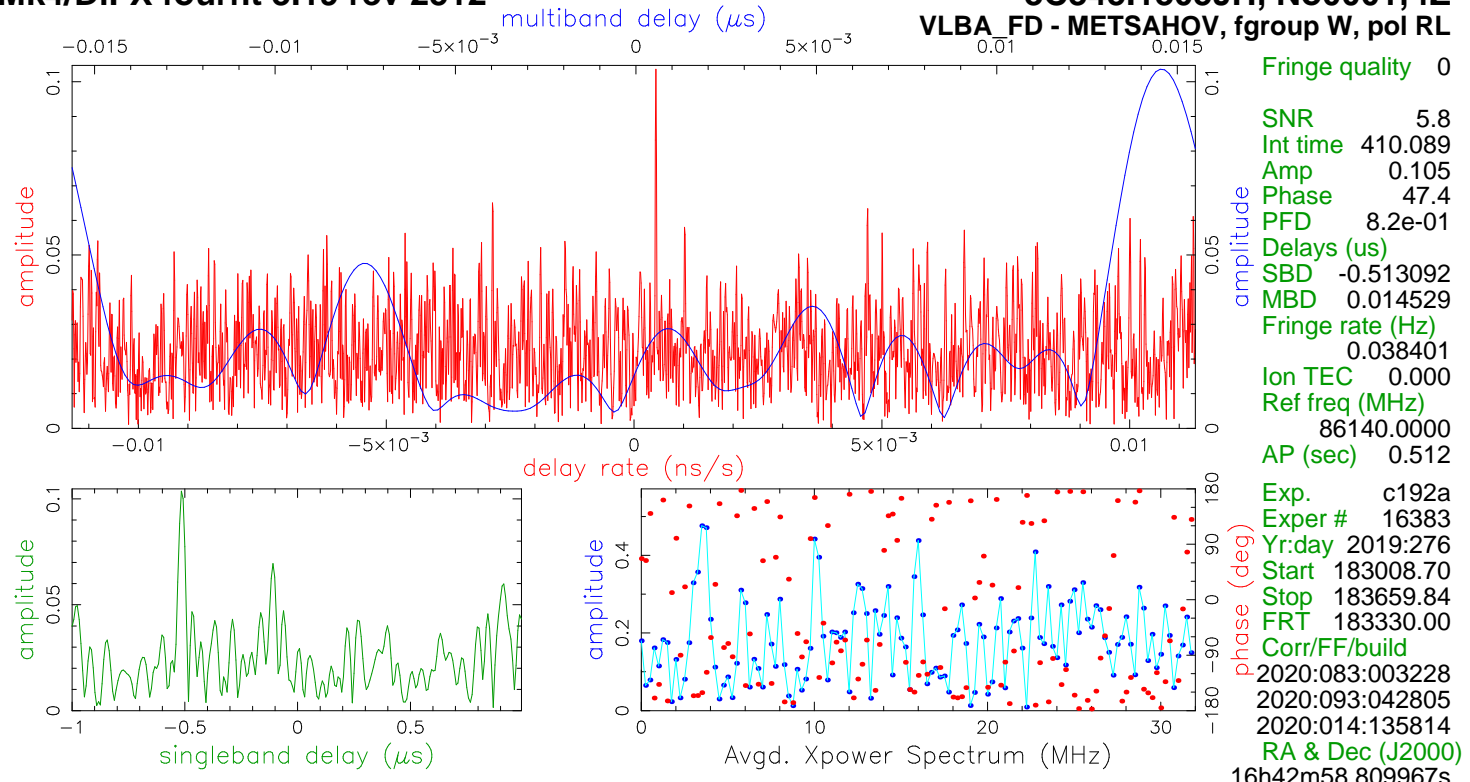


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
135.2	169.2	-175.0	-170.9	155.3	136.4	160.0	-126.8	-168.9	166.3	-173.5	51.8	118.1	112.9	-137.0	179.9		Phase	161.7	
0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.3		Ampl.	0.1	
17.8	8.2	104.2	106.0	201.9	79.0	68.6	29.9	216.2	188.5	58.4	17.0	207.9	158.3	166.8	8.0		Sbd box	8.4	
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	

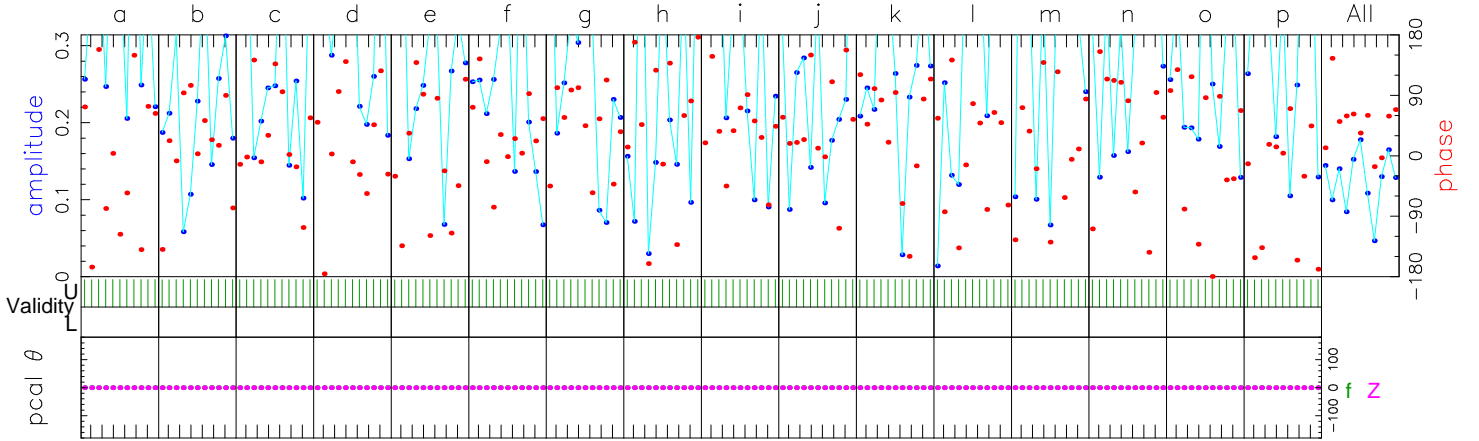
Group delay (usec)(sbd) -2.32640410557E+03 Apriori delay (usec) -2.32545125044E+03 Resid mbdelay (usec) -1.53551E-02 +/- 1.7E-04
 Sband delay (usec) -2.32639368794E+03 Apriori clock (usec) 2.7257115E-01 Resid sbdelay (usec) -9.42438E-01 +/- 2.8E-03
 Phase delay (usec) -2.32545124522E+03 Apriori clockrate (us/s) -1.0724231E-07 Resid phdelay (usec) 5.21402E-06 +/- 6.0E-07
 Delay rate (us/s) 1.45923355773E+00 Apriori rate (us/s) 1.45923732601E+00 Resid rate (us/s) -3.76828E-06 +/- 2.5E-09
 Total phase (deg) -94.8 Apriori accel (us/s/s) -1.35162140689E-05 Resid phase (deg) 161.7 +/- 18.6

RMS Theor. Amplitude 0.117 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 45.1 30.8 Search (2048X64) 0.107 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 60.0 53.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 46.1 37.1 Inc. seg. avg. 0.113 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 63.1 64.8 Inc. frq. avg. 0.115 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 61.0 el 37.1 pa -78.2 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) -10902.077 -3193.061 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fZ..1305JH Output file: /Exps/c192a/v2/1234/No0001/fZ.W.123.1305JH



Amp. and Phase vs. time for each freq., 11 segs, 73 APs / seg (37.38 sec / seg.), time ticks 60 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	156.4	29.3	29.4	63.8	-125.4	22.6	32.7	76.8	43.9	47.1	77.1	24.2	42.3	101.2	90.5	-14.5		Phase 47.4
	0.1	0.1	0.2	0.1	0.0	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1		Ampl. 0.1
	194.1	50.8	184.7	100.8	99.2	194.0	81.7	181.0	125.3	189.0	232.4	123.8	58.5	165.2	45.9	219.5		Sbd box 63.3
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks

Group delay (usec)(sbd)	-2.32596797128E+03	Apriori delay (usec)	-2.32545125044E+03	Resid mbdelay (usec)	1.45292E-02	+/-	1.9E-04
Sband delay (usec)	-2.32596434244E+03	Apriori clock (usec)	2.7257115E-01	Resid sbdelay (usec)	-5.13092E-01	+/-	3.0E-03
Phase delay (usec)	-2.32545124891E+03	Apriori clockrate (us/s)	-1.0724231E-07	Resid phdelay (usec)	1.52891E-06	+/-	6.4E-07
Delay rate (us/s)	1.45923777181E+00	Apriori rate (us/s)	1.45923732601E+00	Resid rate (us/s)	4.45801E-07	+/-	2.7E-09
Total phase (deg)	-209.1	Apriori accel (us/s/s)	-1.35162140689E-05	Resid phase (deg)	47.4	+/-	19.8

ph/seg (deg)	41.1	RMS	32.8	Theor.	41.1	Amplitude	0.105 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	39.9		57.2		39.9	Search (2048X64)	0.101	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	62.3		39.5		62.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016	
amp/frq (%)	48.0		69.0		48.0	Inc. seg. avg.	0.108	Sample rate(MISamp/s):	64	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	0.102	Data rate(Mb/s):	2048	nlags: 128	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 61.0 el 37.1 pa -78.2 Z: az 271.4 el 46.7 pa 40.3 u,v (fr/asec) -10902.077 -3193.061 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fZ..1305JH Output file: /Exps/c192a/v2/1234/No0001/fZ.W.155.1305JH