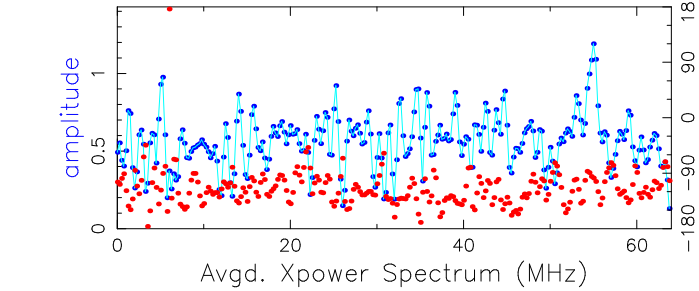
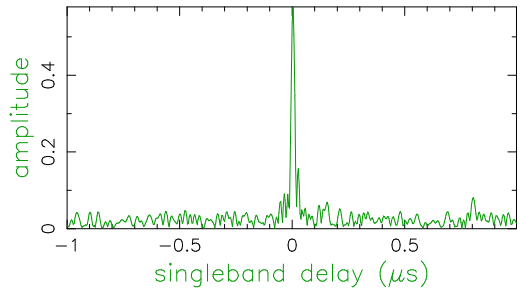


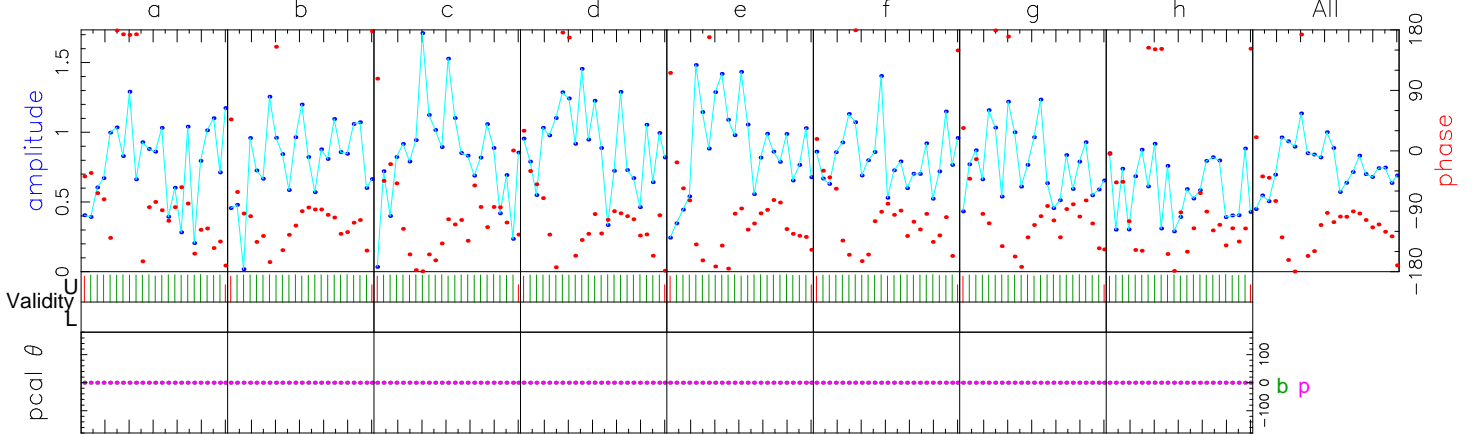
Fringe quality 7

SNR 29.7
Int time 351.964
Amp 0.578
Phase -118.8
PFD 0.0e+00
Delays (us)
SBD 0.003315
MBD 0.003450
Fringe rate (Hz) 0.000597
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.51
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150933
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



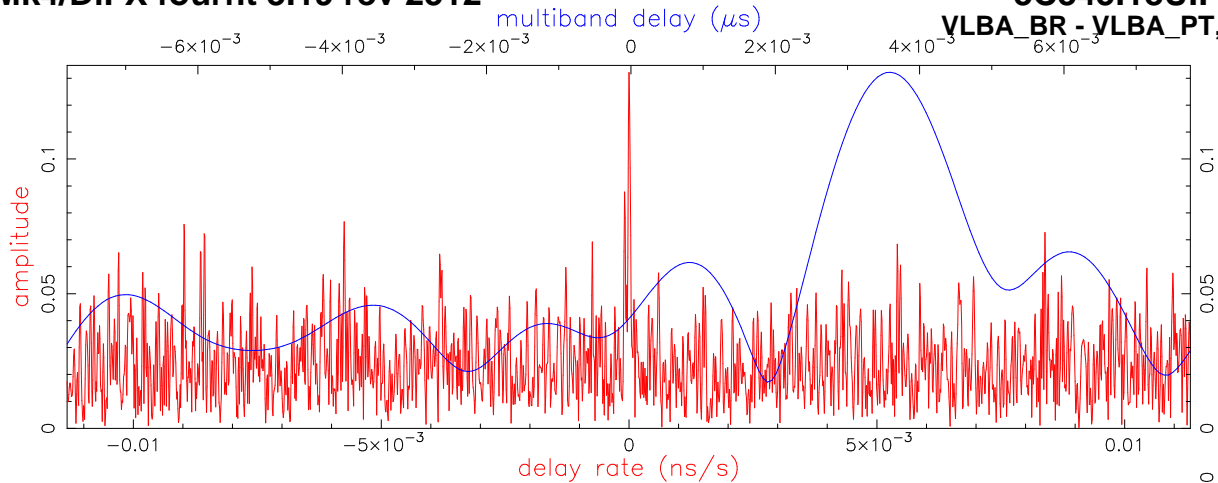
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



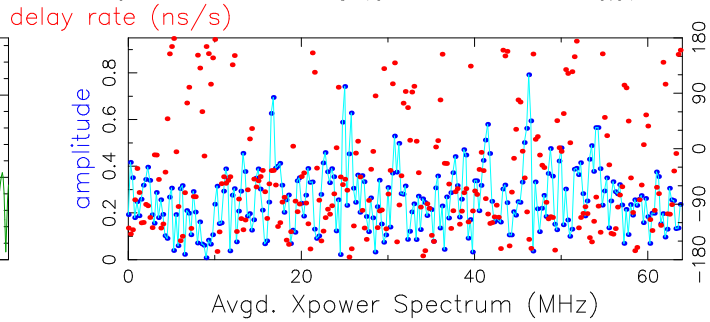
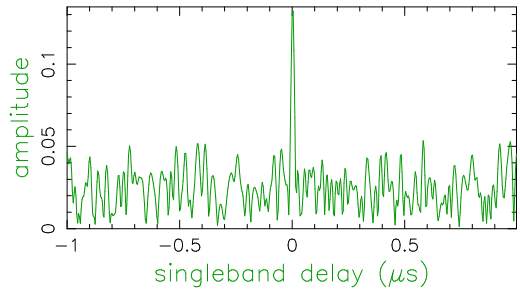
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.37055921949E+03			3.3705576997E+03			3.44952E-03		+/- 3.7E-05
Sband delay (usec)		3.37055908497E+03			-1.8695023E+01			3.31500E-03		+/- 2.9E-04
Phase delay (usec)		3.37055576614E+03			-2.4588659E-07			-3.83017E-06		+/- 1.2E-07
Delay rate (us/s)		2.51134803102E-01			2.51134796168E-01			6.93394E-09		+/- 6.0E-10
Total phase (deg)			-109.7		-4.95756976633E-06			-118.8		+/- 3.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										-1.000 1.000
mb window (us)										-0.008 0.008
dr window (ns/s)										-0.011 0.011
ion window (TEC)										0.00 0.00
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Amplitude										0.578 +/- 0.019
RMS										
ph/seg (deg)										
amp/seg (%)										
ph/frq (deg)										
amp/frq (%)										

b: az 278.9 el 50.5 pa 59.2 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -1875.500 928.738 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/bp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/bp.W.28.18UIFP

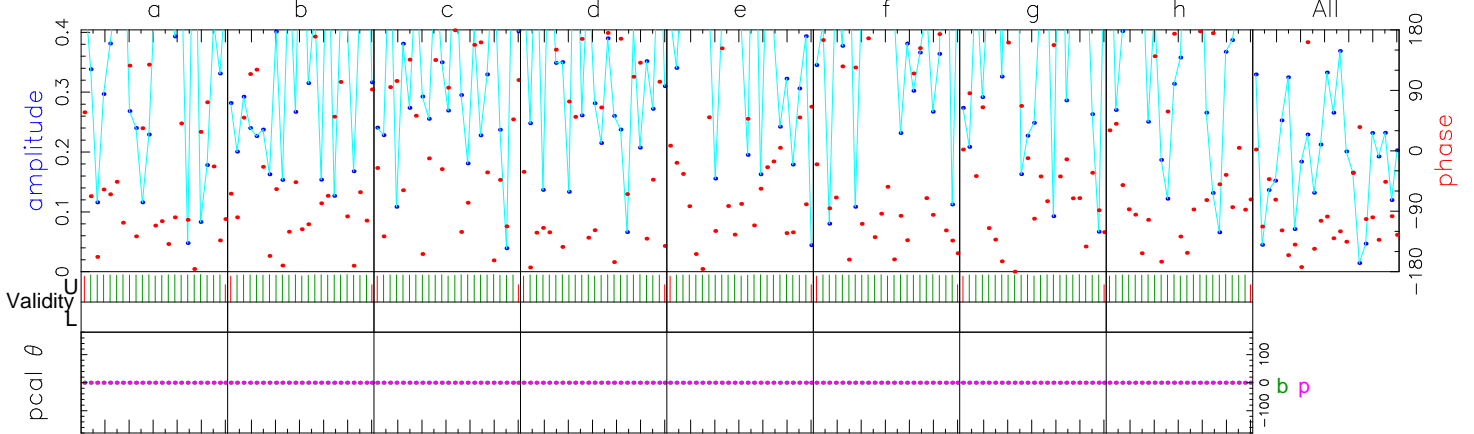


Fringe quality 0
SNR 6.9
Int time 351.964
Amp 0.135
Phase -111.2
PFD 1.4e-03
Delays (us)
SBD 0.002181
MBD 0.003550
Fringe rate (Hz) 0.000339
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.51
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150938
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



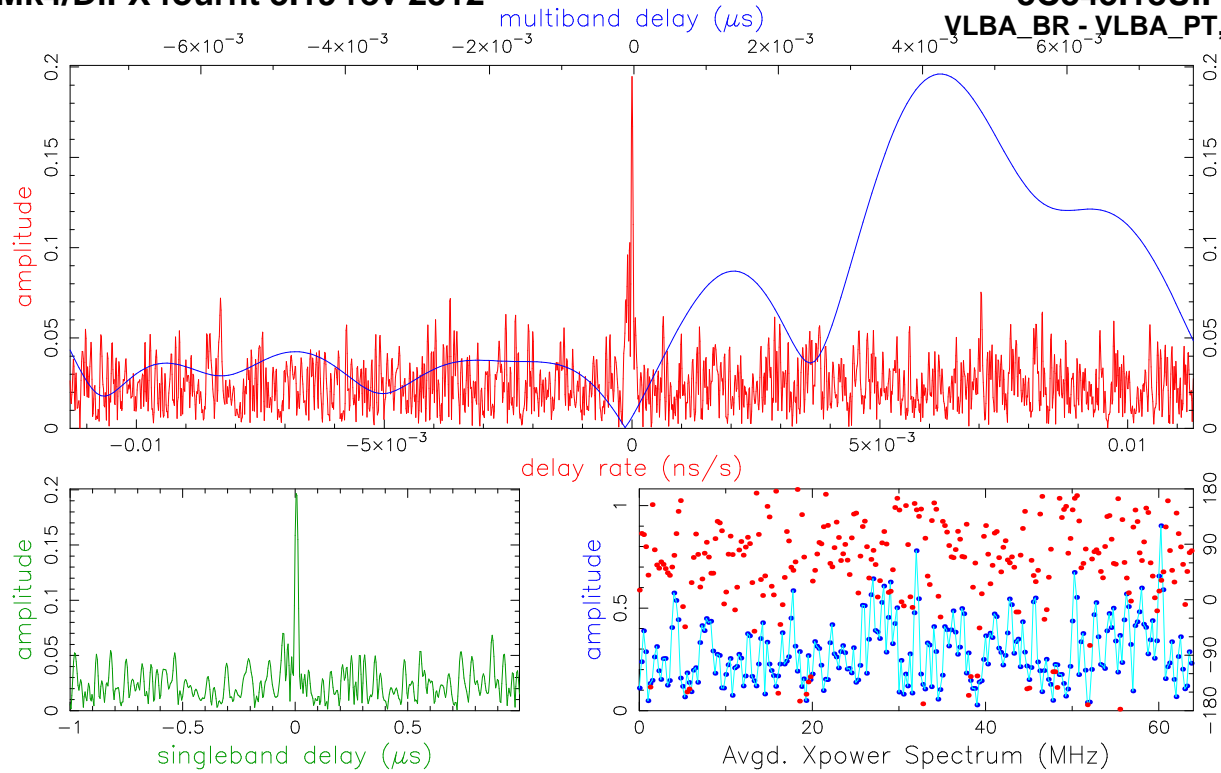
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-99.3	-101.0	130.9	-166.5	-78.8	-131.3	-94.3	-102.1	Phase	-111.2
	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.1
	448.6	270.4	362.2	113.7	145.1	258.1	503.4	12.3	Sbd box	257.6
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.37055931963E+03		Apriori delay (usec)		3.3705576997E+03		Resid mbdelay (usec)		3.54966E-03	+/- 1.6E-04
Sband delay (usec)	3.37055795097E+03		Apriori clock (usec)		-1.8695023E+01		Resid sbdelay (usec)		2.18100E-03	+/- 1.2E-03
Phase delay (usec)	3.37055576638E+03		Apriori clockrate (us/s)		-2.4588659E-07		Resid phdelay (usec)		-3.58629E-06	+/- 5.3E-07
Delay rate (us/s)	2.51134800109E-01		Apriori rate (us/s)		2.51134796168E-01		Resid rate (us/s)		3.94100E-09	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.95756976633E-06		Resid phase (deg)		-111.2	+/- 16.6

ph/seg (deg) 54.9 39.7 Search (2048X32) 0.128 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.6 69.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 56.3 23.4 Inc. seg. avg. 0.155 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 39.6 40.9 Inc. frq. avg. 0.143 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 278.9 el 50.5 pa 59.2 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -1875.500 928.738 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/bp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/bp.W.51.18UIFP

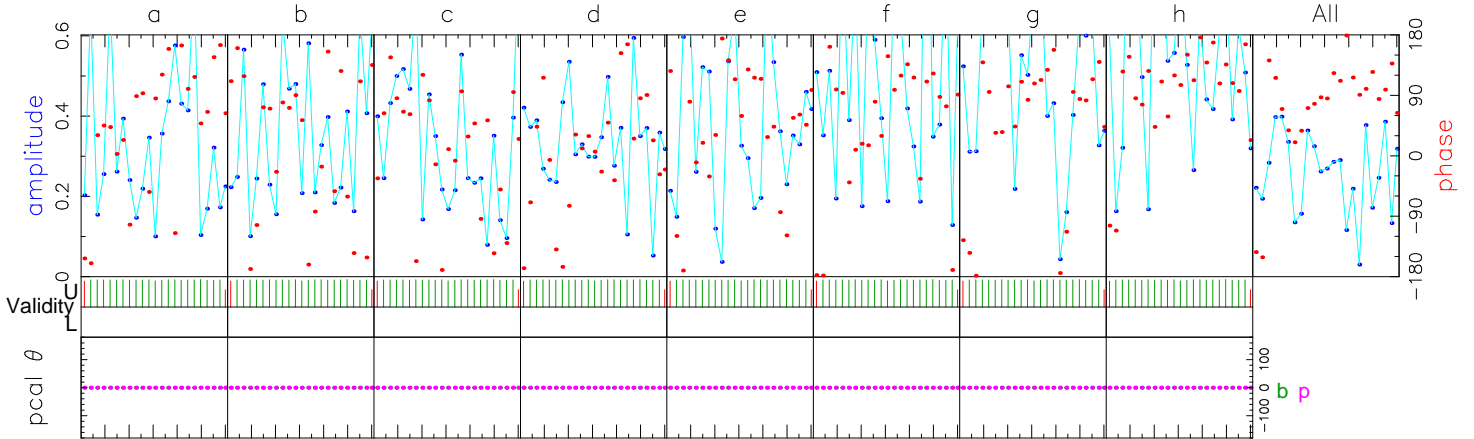


Fringe quality 9

SNR 10.3
Int time 351.964
Amp 0.201
Phase 97.1
PFD 2.9e-16
Delays (us)
SBD 0.005681
MBD 0.004108
Fringe rate (Hz) 0.000219
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.51
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150942
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



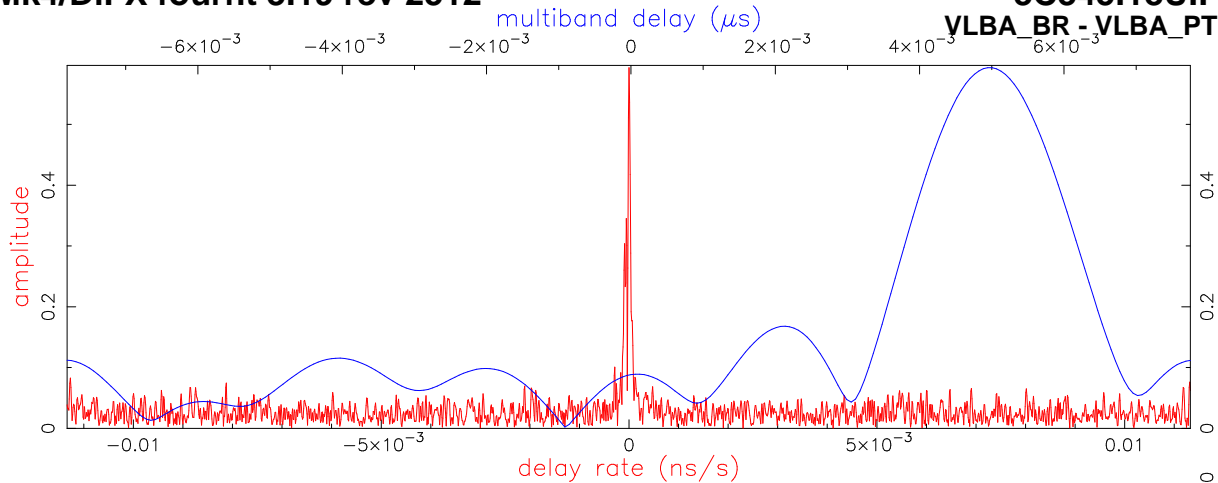
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		3.37055987756E+03				3.3705576997E+03			4.10759E-03	+/- 1.1E-04
Sband delay (usec)		3.37056145072E+03				-1.8695023E+01			5.68075E-03	+/- 8.4E-04
Phase delay (usec)		3.37055577310E+03				-2.4588659E-07			3.13059E-06	+/- 3.6E-07
Delay rate (us/s)		2.51134798711E-01				2.51134796168E-01			2.54301E-09	+/- 1.7E-09
Total phase (deg)			106.1			-4.95756976633E-06			97.1	+/- 11.1
		RMS	Theor.	Amplitude	0.201 +/- 0.019					
ph/seg (deg)	49.4	26.7		Search (2048X32)	0.194					
amp/seg (%)	56.7	46.5		Interp.	0.000					
ph/frq (deg)	38.8	15.7		Inc. seg. avg.	0.231					
amp/frq (%)	56.6	27.4		Inc. frq. avg.	0.208					
b: az 278.9 el 50.5 pa 59.2				p: az 296.8 el 37.9 pa 73.4						
				u,v (fr/asec) -1875.500 928.738						

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 128
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

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

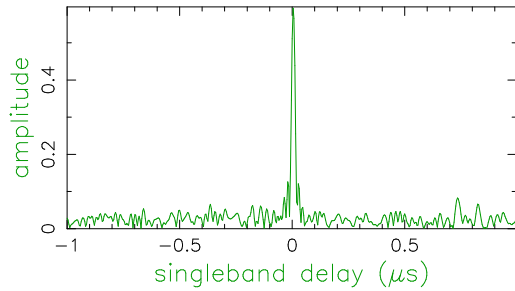
simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/bp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/bp.W.70.18UIFP

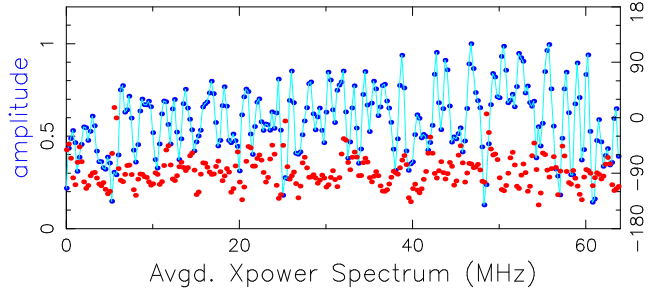


Fringe quality 6

SNR 30.6
Int time 351.965
Amp 0.597
Phase -89.0
PFD 0.0e+00
Delays (us)
SBD 0.004905
MBD 0.004998
Fringe rate (Hz)
0.000426
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

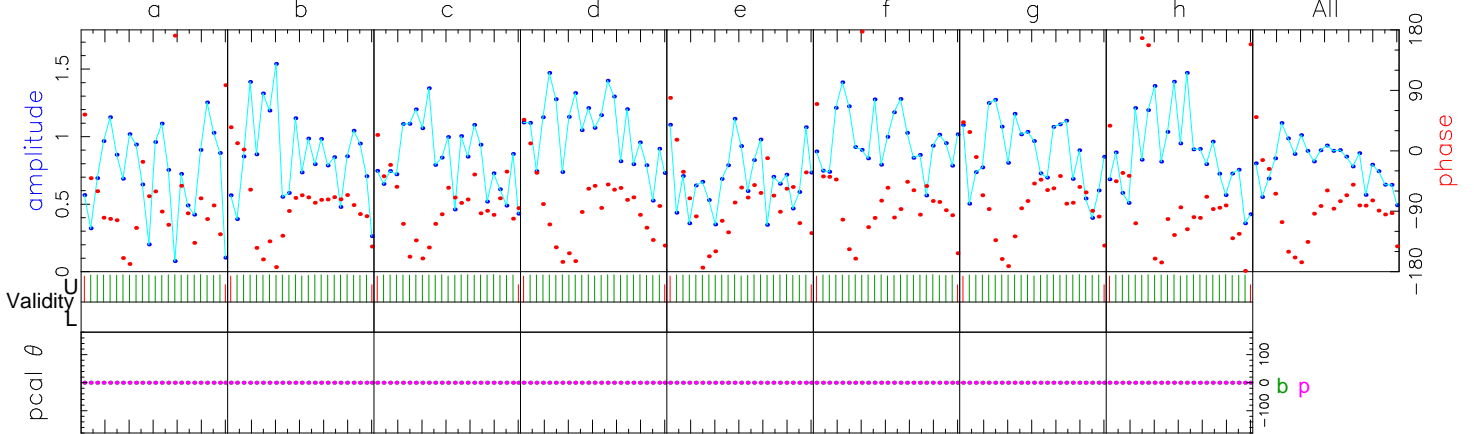


delay rate (ns/s)



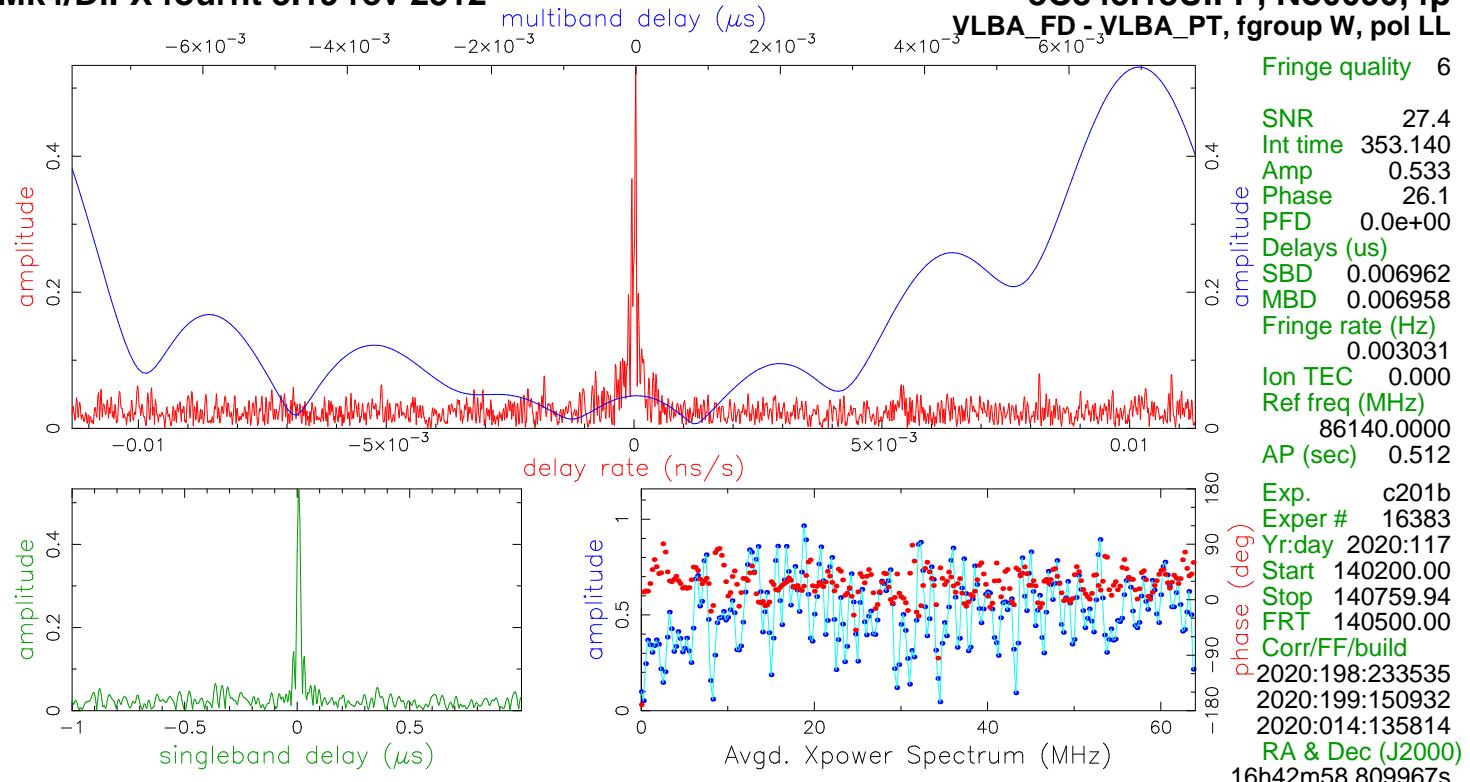
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.51
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150928
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

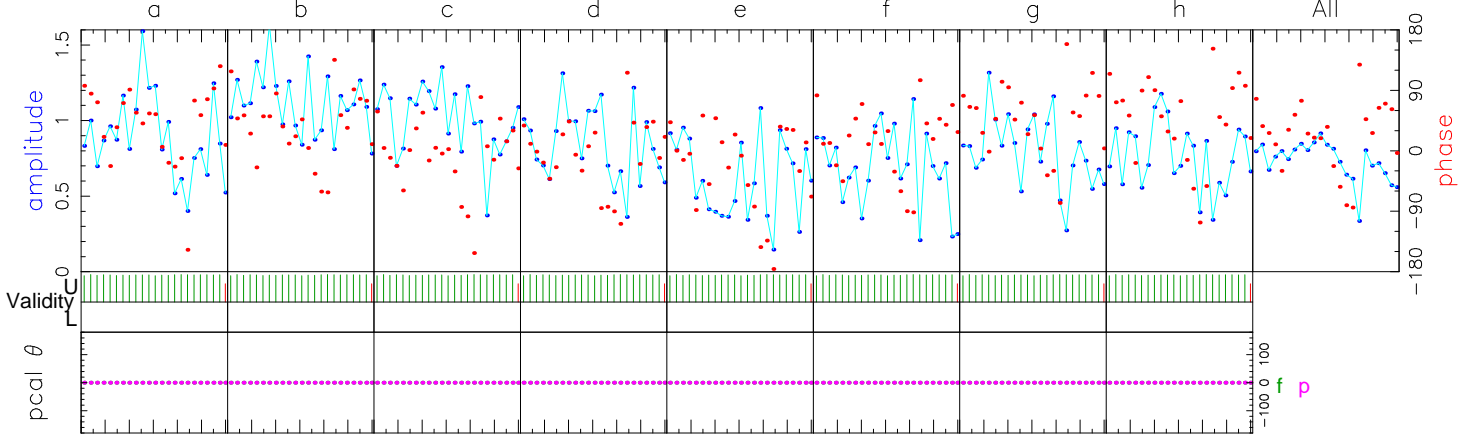


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-94.9	-89.1	-89.5	-85.5	-73.1	-87.6	-77.4	-113.0	Phase	-89.0
	0.6	0.6	0.6	0.7	0.5	0.7	0.6	0.6	Ampl.	0.6
	258.2	258.4	258.1	257.8	258.3	258.7	257.9	258.1	Sbd box	258.3
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.37056076816E+03		Apriori delay (usec)		3.3705576997E+03		Resid mbdelay (usec)		4.99819E-03	+/- 3.5E-05
Sband delay (usec)	3.37056067497E+03		Apriori clock (usec)		-1.8695023E+01		Resid sbdelay (usec)		4.90500E-03	+/- 2.8E-04
Phase delay (usec)	3.37055576710E+03		Apriori clockrate (us/s)		-2.4588659E-07		Resid phdelay (usec)		-2.87049E-06	+/- 1.2E-07
Delay rate (us/s)	2.51134801111E-01		Apriori rate (us/s)		2.51134796168E-01		Resid rate (us/s)		4.94290E-09	+/- 5.8E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.95756976633E-06		Resid phase (deg)		-89.0	+/- 3.7

ph/seg (deg) 47.6 9.0 Search (2048X32) 0.576 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.6 15.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.0 5.3 Inc. seg. avg. 0.803 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.7 9.2 Inc. frq. avg. 0.601 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 278.9 el 50.5 pa 59.2 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -1875.500 928.738 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/bp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/bp.W.9.18UIFP



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



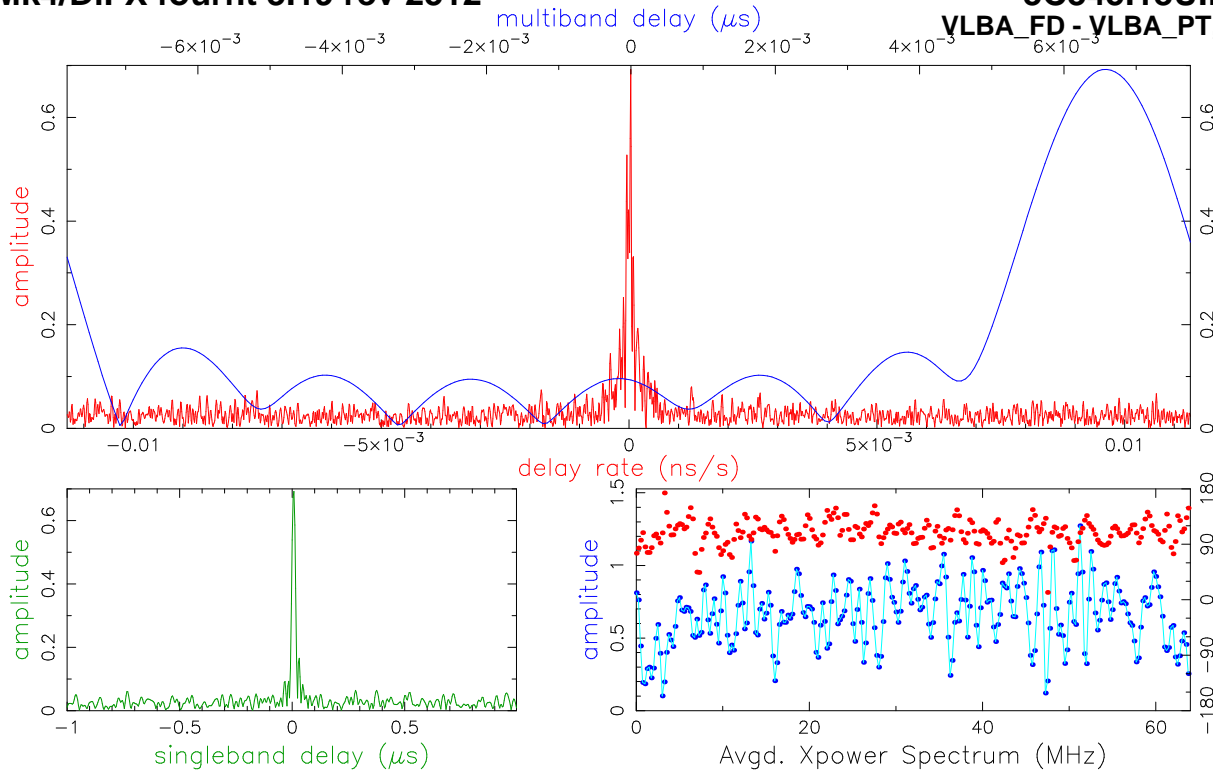
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
52.2	38.3	-0.4	0.7	-3.1	10.6	45.2	55.7	55.7	Phase	26.1
0.7	0.8	0.7	0.6	0.4	0.5	0.6	0.5	0.5	Ampl.	0.6
258.6	258.3	258.7	258.7	259.2	259.2	258.8	259.1	259.1	Sbd box	258.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.49036038457E+03	Apriori delay (usec)	-1.49036734219E+03	Resid mbdelay (usec)	6.95763E-03	+/-	4.0E-05
Sband delay (usec)	-1.49036037994E+03	Apriori clock (usec)	-1.3384058E+01	Resid sbdelay (usec)	6.96225E-03	+/-	3.1E-04
Phase delay (usec)	-1.49036734135E+03	Apriori clockrate (us/s)	-9.488658E-08	Resid phdelay (usec)	8.42762E-07	+/-	1.3E-07
Delay rate (us/s)	-6.39328235236E-02	Apriori rate (us/s)	-6.39328587078E-02	Resid rate (us/s)	3.51841E-08	+/-	6.5E-10
Total phase (deg)	-282.2	Apriori accel (us/s/s)	3.95672189367E-06	Resid phase (deg)	26.1	+/-	4.2

ph/seg (deg)	RMS	Theor.	Amplitude	0.533 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	50.7	10.0	Search (2048X32)	0.524	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	44.3	17.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	27.4	5.9	Inc. seg. avg.	0.723	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
	25.2	10.3	Inc. frq. avg.	0.574	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

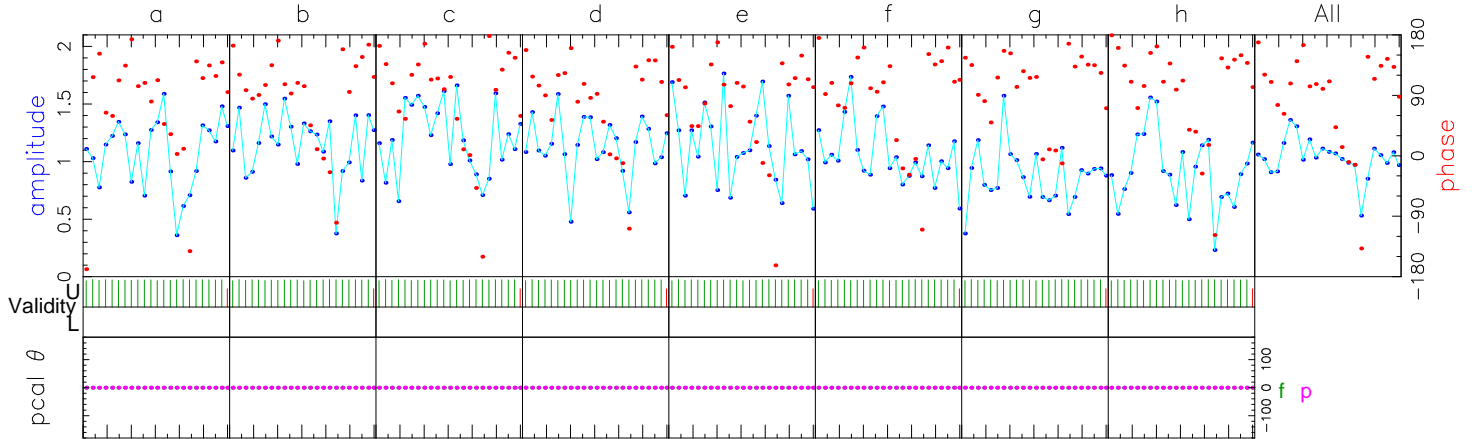
f: az 300.1 el 33.0 pa 75.2 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) 481.333 -114.194 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/fp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/fp.W.23.18UIFP



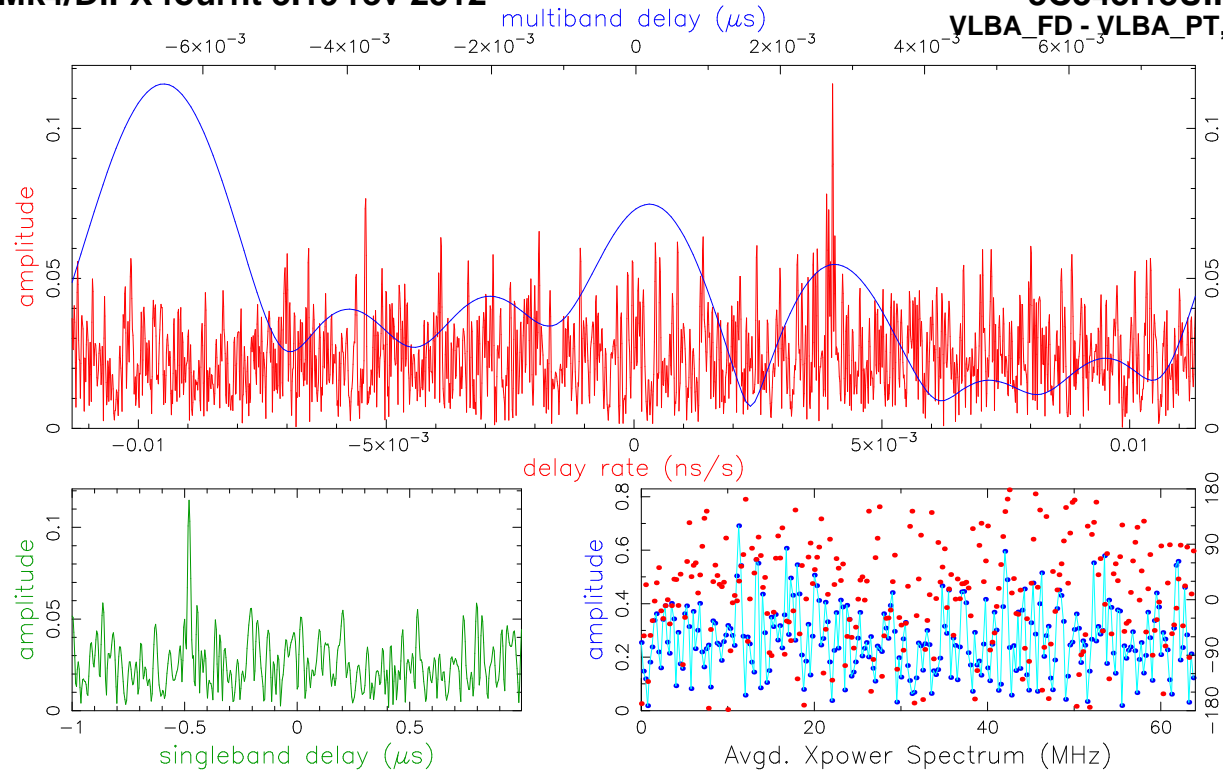
Fringe quality 7
SNR 36.0
Int time 353.139
Amp 0.700
Phase 107.5
PFD 0.0e+00
Delays (us)
SBD 0.006450
MBD 0.006544
Fringe rate (Hz) 0.003091
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150936
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



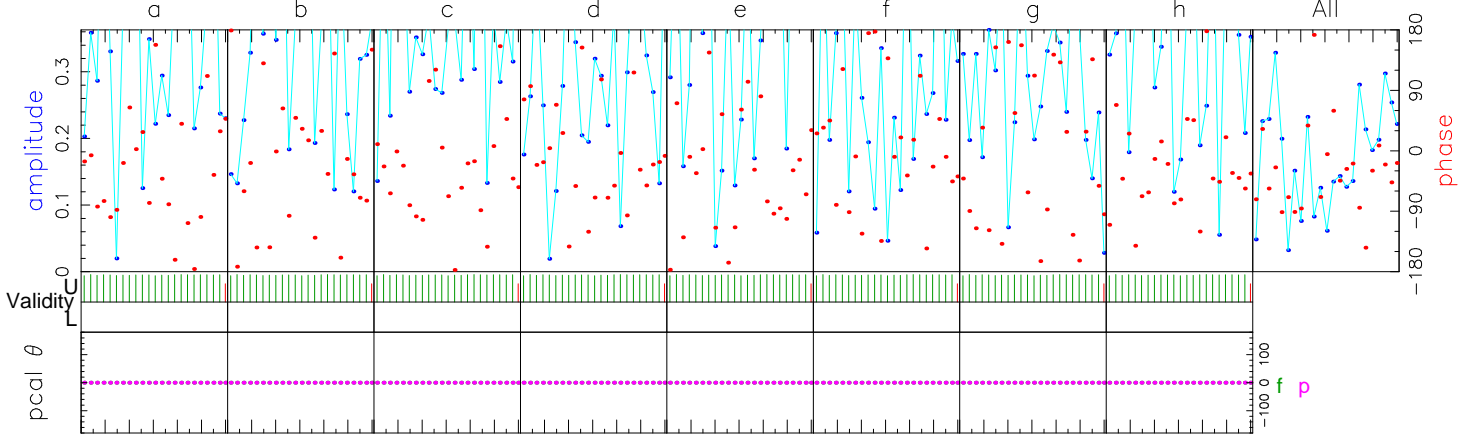
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.49036079807E+03				-1.49036734219E+03				6.54413E-03	+/- 3.0E-05
Sband delay (usec)	-1.49036089169E+03				-1.3384058E+01				6.45050E-03	+/- 2.4E-04
Phase delay (usec)	-1.49036733873E+03				-9.4886582E-08				3.46509E-06	+/- 1.0E-07
Delay rate (us/s)	-6.39328228193E-02				-6.39328587078E-02				3.58884E-08	+/- 4.9E-10
Total phase (deg)			-200.8		3.95672189367E-06				107.5	+/- 3.2
	RMS	Theor.	Amplitude	0.700 +/- 0.019	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	55.9	7.6	Search (2048X32)	0.671	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	53.0	13.3	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	8.0	4.5	Inc. seg. avg.	1.027	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	10.9	7.9	Inc. frq. avg.	0.695	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00

f: az 300.1 el 33.0 pa 75.2 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) 481.333 -114.194 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/fp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/fp.W.43.18UIFP



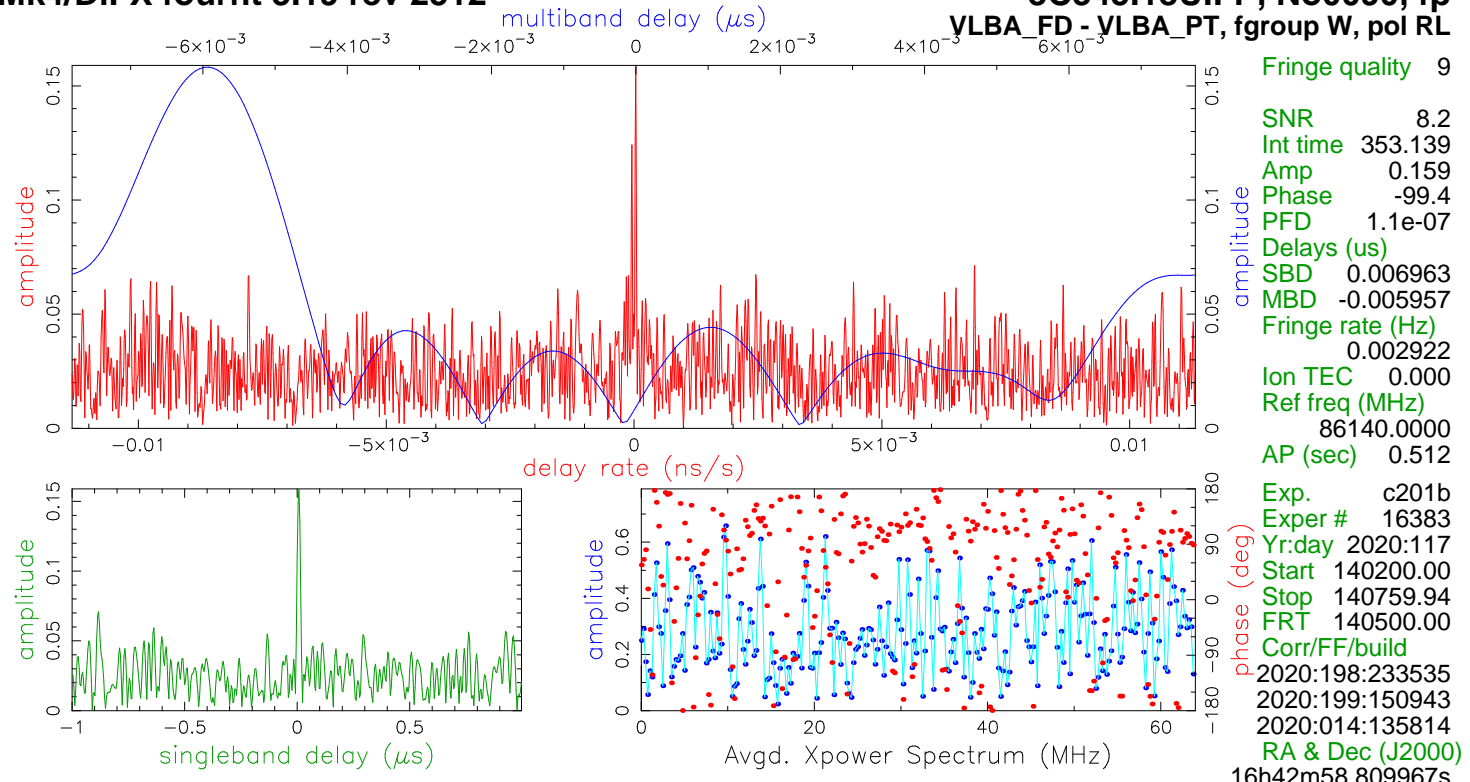
Fringe quality 0
SNR 5.9
Int time 353.139
Amp 0.121
Phase -37.1
PFD 6.0e-01
Delays (us)
SBD -0.480276
MBD -0.006536
Fringe rate (Hz) 0.345823
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150939
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

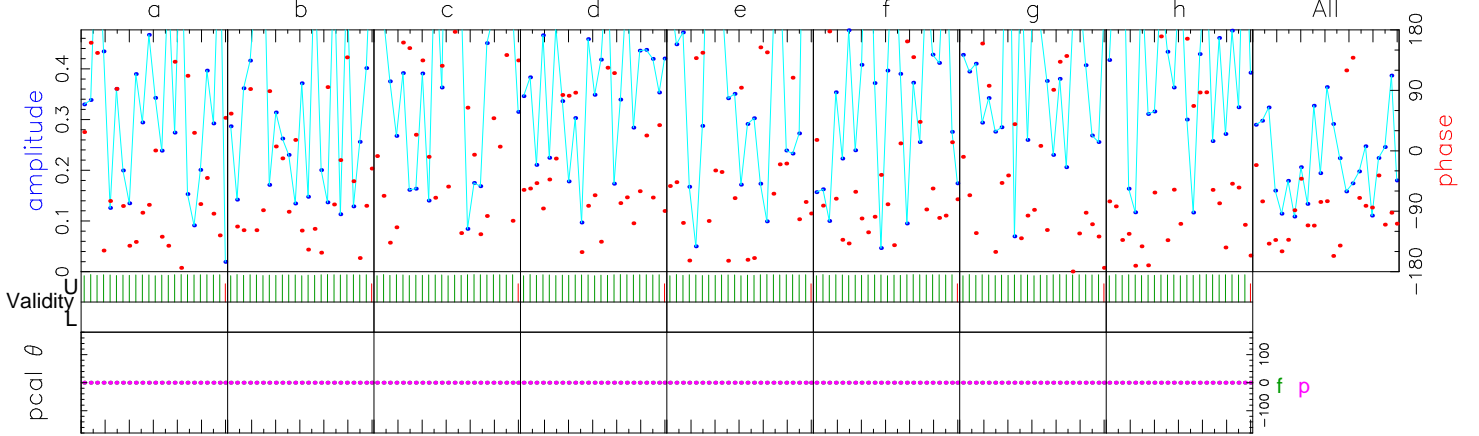


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-43.6	-25.8	-36.8	-33.5	-35.9	-5.4	-149.8	-29.9	Phase	-37.1
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	371.0	197.1	133.8	143.0	223.0	443.6	316.5	134.0	Sbd box	134.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.49084262773E+03		Apriori delay (usec)		-1.49036734219E+03		Resid mbdelay (usec)		-6.53554E-03	+/- 1.8E-04
Sband delay (usec)	-1.49084761819E+03		Apriori clock (usec)		-1.3384058E+01		Resid sbdelay (usec)		-4.80276E-01	+/- 1.5E-03
Phase delay (usec)	-1.49036734339E+03		Apriori clockrate (us/s)		-9.4886582E-08		Resid phdelay (usec)		-1.19777E-06	+/- 6.3E-07
Delay rate (us/s)	-6.39288440444E-02		Apriori rate (us/s)		-6.39328587078E-02		Resid rate (us/s)		4.01466E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.95672189367E-06		Resid phase (deg)		-37.1	+/- 19.4

ph/seg (deg) RMS Theor. Amplitude 0.121 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.5 46.5 Search (2048X32) 0.110 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 86.2 81.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.2 27.5 Inc. seg. avg. 0.137 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 49.2 47.9 Inc. frq. avg. 0.127 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 300.1 el 33.0 pa 75.2 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) 481.333 -114.194 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/fp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/fp.W.60.18UIFP

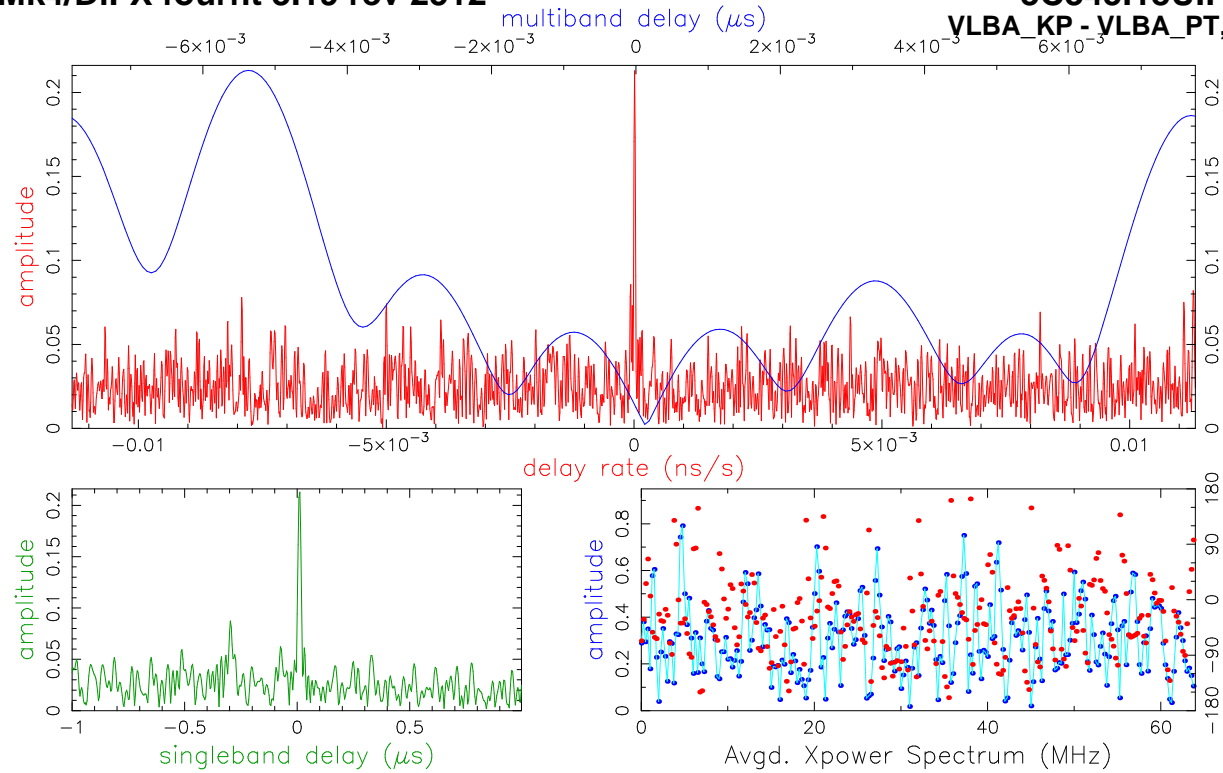


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-138.8	-95.9	-110.1	-56.6	-79.6	-97.1	-107.8	-115.5	Phase	-99.4
	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	454.3	438.3	106.1	295.7	259.2	259.3	492.2	257.5	Sbd box	258.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.49035767375E+03		Apriori delay (usec)	-1.49036734219E+03	Resid mbdelay (usec)	-5.95656E-03	+/-	1.3E-04		
Sband delay (usec)	-1.49036037969E+03		Apriori clock (usec)	-1.3384058E+01	Resid sbdelay (usec)	6.96250E-03	+/-	1.1E-03		
Phase delay (usec)	-1.49036734540E+03		Apriori clockrate (us/s)	-9.4886582E-08	Resid phdelay (usec)	-3.20647E-06	+/-	4.5E-07		
Delay rate (us/s)	-6.39328247820E-02		Apriori rate (us/s)	-6.39328587078E-02	Resid rate (us/s)	3.39257E-08	+/-	2.2E-09		
Total phase (deg)		-47.7	Apriori accel (us/s/s)	3.95672189367E-06	Resid phase (deg)	-99.4	+/-	14.0		

	RMS	Theor.	Amplitude	0.159 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.8	33.6	Search (2048X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	64.7	58.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	26.6	19.8	Inc. seg. avg.	0.191	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	29.7	34.6	Inc. frq. avg.	0.161	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

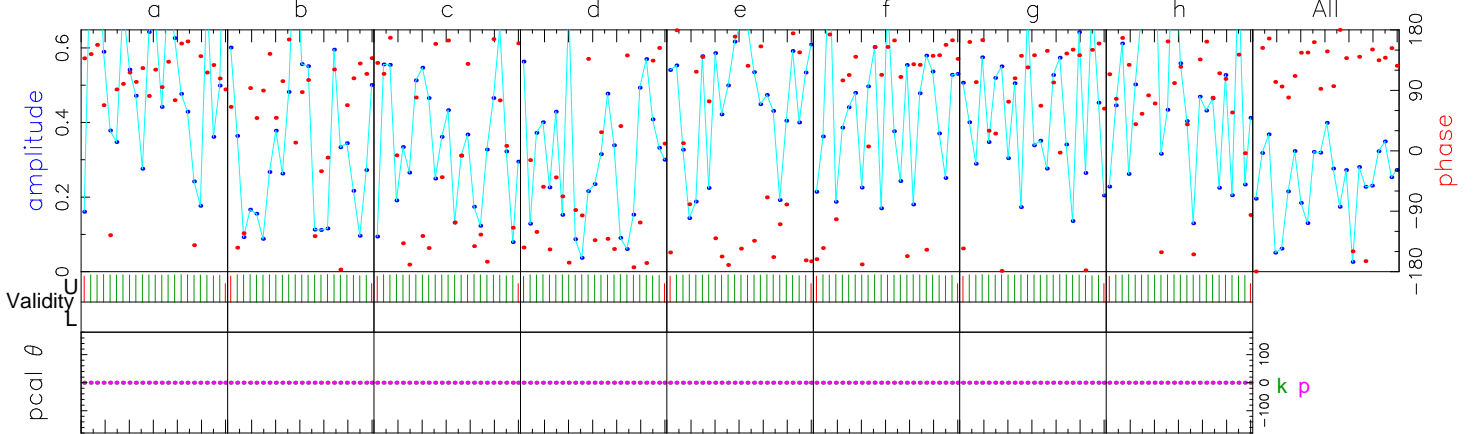


Fringe quality 9

SNR 11.1
Int time 353.464
Amp 0.216
Phase 140.6
PFD 5.2e-20
Delays (us)
SBD 0.010252
MBD -0.005412
Fringe rate (Hz) 0.001321
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150950
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.28153731106E+02			4.28143518241E+02				Resid mbdelay (usec)	-5.41213E-03 +/- 9.8E-05
Sband delay (usec)		4.28153770491E+02			-1.7630499E+01				Resid sbdelay (usec)	1.02523E-02 +/- 7.8E-04
Phase delay (usec)		4.28143522774E+02			-1.9848659E-07				Resid phdelay (usec)	4.53336E-06 +/- 3.3E-07
Delay rate (us/s)		1.17105097111E-03			1.17103564075E-03				Resid rate (us/s)	1.53304E-08 +/- 1.6E-09
Total phase (deg)			18.6		-4.84496584909E-06				Resid phase (deg)	140.6 +/- 10.3

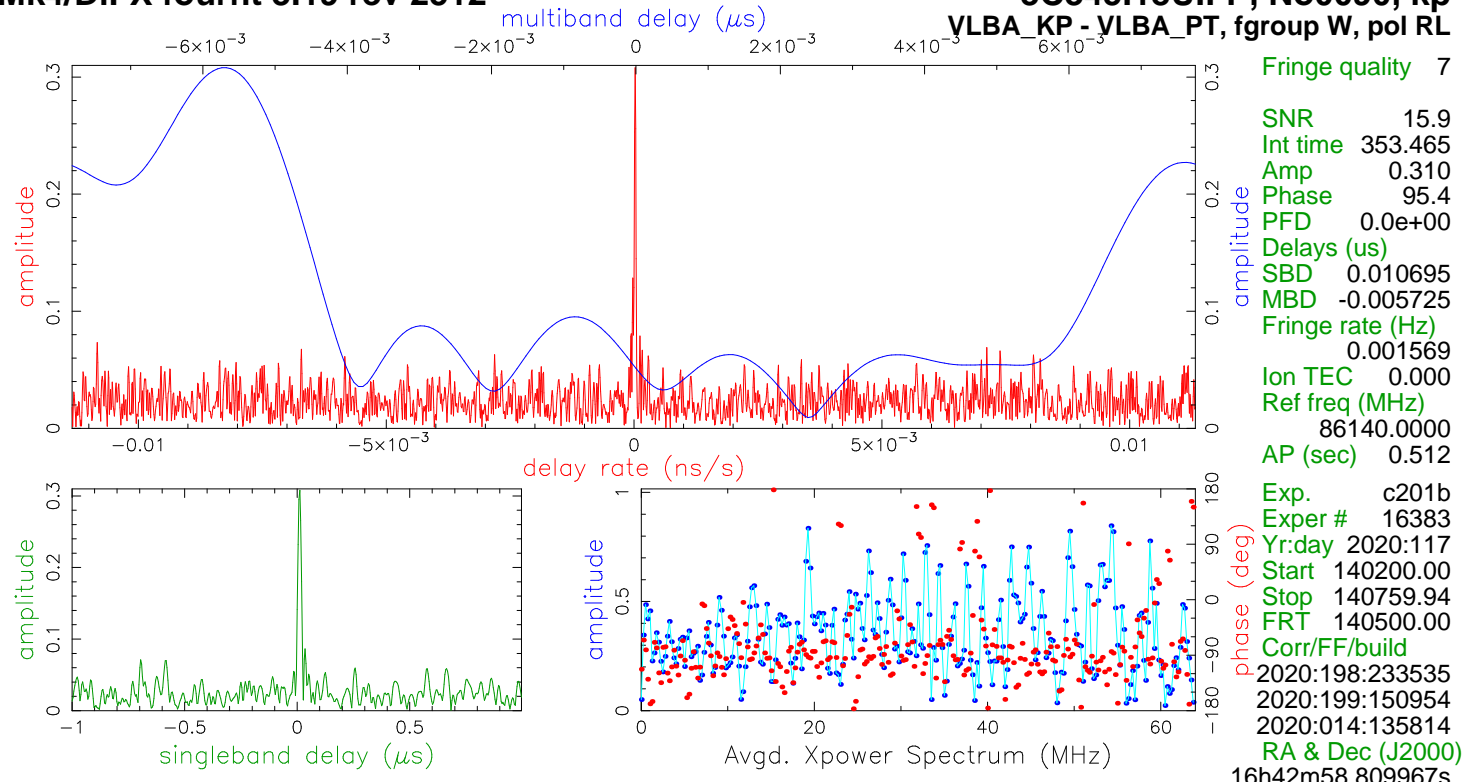
	RMS	Theor.	Amplitude	0.216 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	33.4	24.7	Search (2048X32)	0.207	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	47.9	43.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	47.9	14.6	Inc. seg. avg.	0.221	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	51.0	25.5	Inc. frq. avg.	0.256	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

k: az 297.6 el 39.4 pa 77.7 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -16.467 -550.059 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/kp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/kp.W.102.18UIFP

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, kp
VLBA_KP - VLBA_PT, fgroup W, pol RL

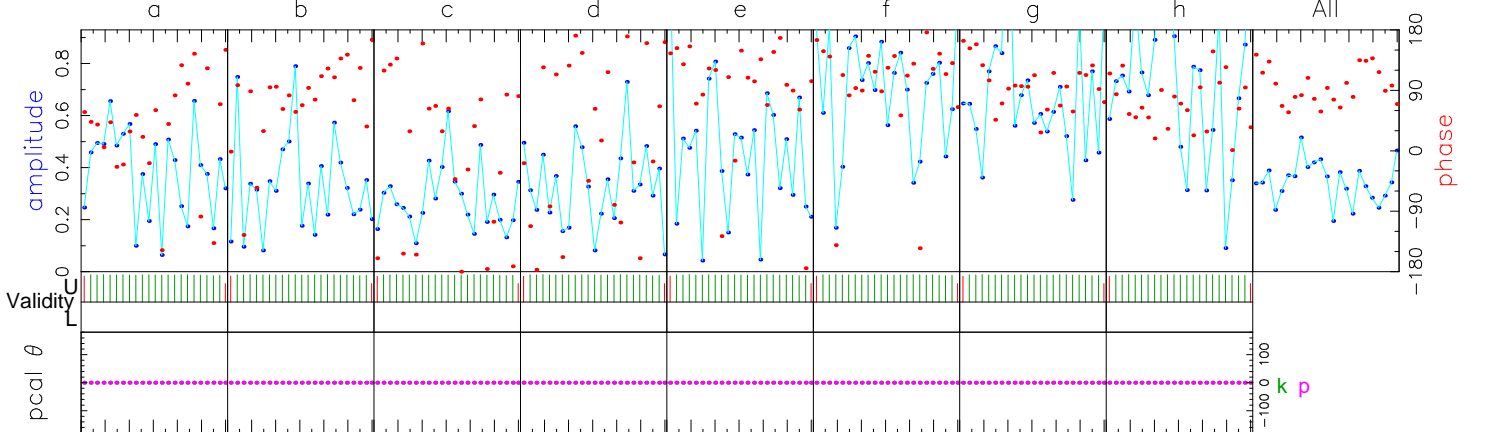


Fringe quality 7

SNR 15.9
Int time 353.465
Amp 0.310
Phase 95.4
PFD 0.0e+00
Delays (us)
SBD 0.010695
MBD -0.005725
Fringe rate (Hz) 0.001569
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150954
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

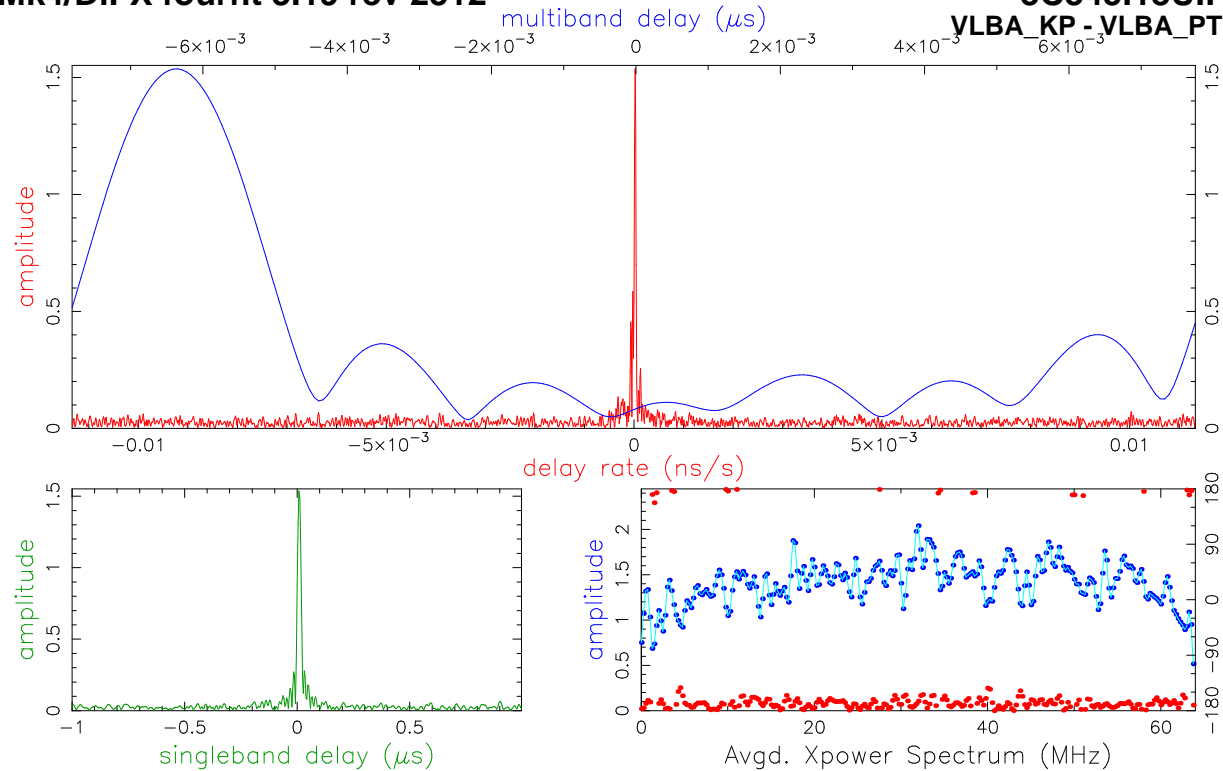


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	46.5	90.0	88.8	168.1	118.2	120.9	97.3	68.2	Phase	95.4
	0.2	0.3	0.1	0.1	0.3	0.6	0.6	0.6	Ampl.	0.3
	258.8	259.8	460.2	169.4	259.4	259.7	258.8	259.4	Sbd box	259.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.28153418721E+02		Apriori delay (usec)		4.28143518241E+02		Resid mbdelay (usec)		-5.72452E-03	+/- 6.8E-05
Sband delay (usec)	4.28154213241E+02		Apriori clock (usec)		-1.7630499E+01		Resid sbdelay (usec)		1.06950E-02	+/- 5.4E-04
Phase delay (usec)	4.28143521316E+02		Apriori clockrate (us/s)		-1.9848659E-07		Resid phdelay (usec)		3.07492E-06	+/- 2.3E-07
Delay rate (us/s)	1.17105385493E-03		Apriori rate (us/s)		1.17103564075E-03		Resid rate (us/s)		1.82142E-08	+/- 1.1E-09
Total phase (deg)	333.4		Apriori accel (us/s/s)		-4.84496584909E-06		Resid phase (deg)		95.4	+/- 7.2

ph/seg (deg) 26.6 17.2 Search (2048X32) 0.297 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 26.9 30.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.1 10.2 Inc. seg. avg. 0.330 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 65.6 17.7 Inc. frq. avg. 0.339 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 297.6 el 39.4 pa 77.7 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -16.467 -550.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/kp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/kp.W.119.18UIFP

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, kp
VLBA_KP - VLBA_PT, fgroup W, pol LL

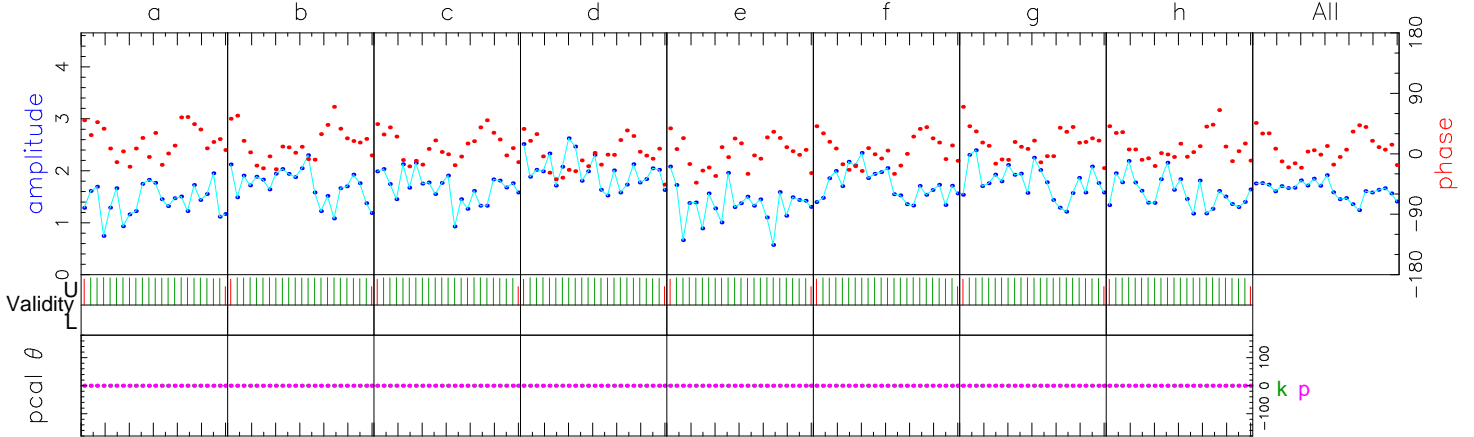


Fringe quality 8

SNR 79.8
Int time 353.464
Amp 1.552
Phase 8.4
PFD 0.0e+00
Delays (us)
SBD 0.009085
MBD -0.006340
Fringe rate (Hz) 0.001482
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150943
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

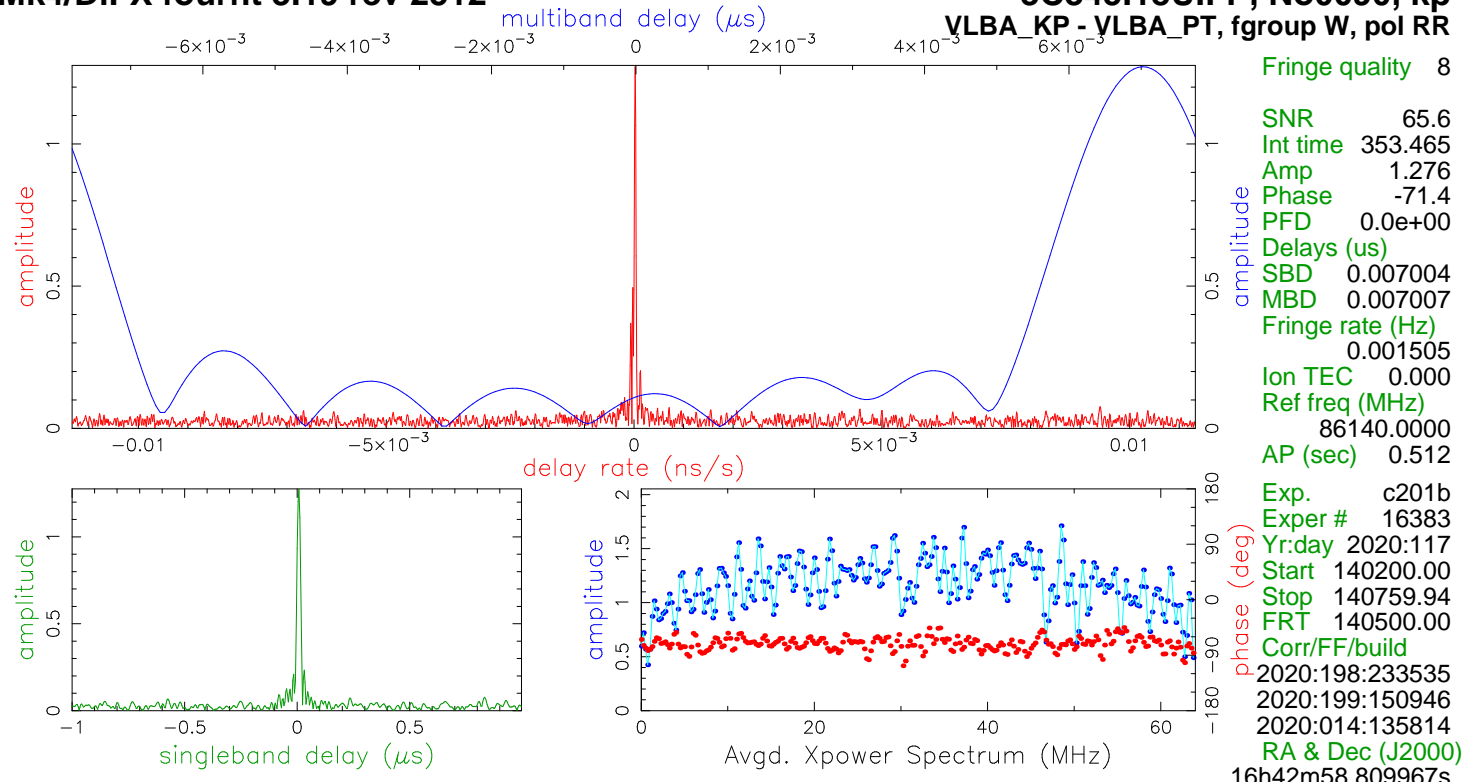


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.28152803002E+02		Apriori delay (usec)		4.28143518241E+02		Resid mbdelay (usec)		-6.34024E-03	+/- 1.4E-05
Sband delay (usec)	4.28152603241E+02		Apriori clock (usec)		-1.7630499E+01		Resid sbdelay (usec)		9.08500E-03	+/- 1.1E-04
Phase delay (usec)	4.28143518513E+02		Apriori clockrate (us/s)		-1.9848659E-07		Resid phdelay (usec)		2.72204E-07	+/- 4.6E-08
Delay rate (us/s)	1.17105285020E-03		Apriori rate (us/s)		1.17103564075E-03		Resid rate (us/s)		1.72094E-08	+/- 2.2E-10
Total phase (deg)	246.5		Apriori accel (us/s/s)		-4.84496584909E-06		Resid phase (deg)		8.4	+/- 1.4

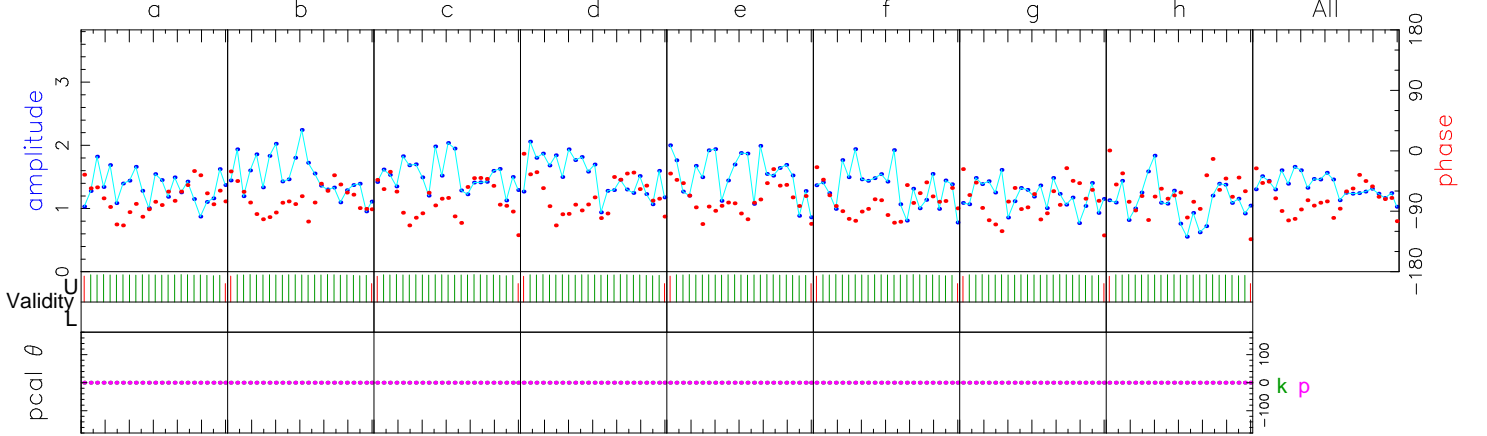
ph/seg (deg) 20.1 3.4 Search (2048X32) 1.481 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 11.4 6.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.4 2.0 Inc. seg. avg. 1.630 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.4 3.5 Inc. frq. avg. 1.548 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 297.6 el 39.4 pa 77.7 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -16.467 -550.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/kp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/kp.W.74.18UIFP

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, kp
VLBA_KP - VLBA_PT, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

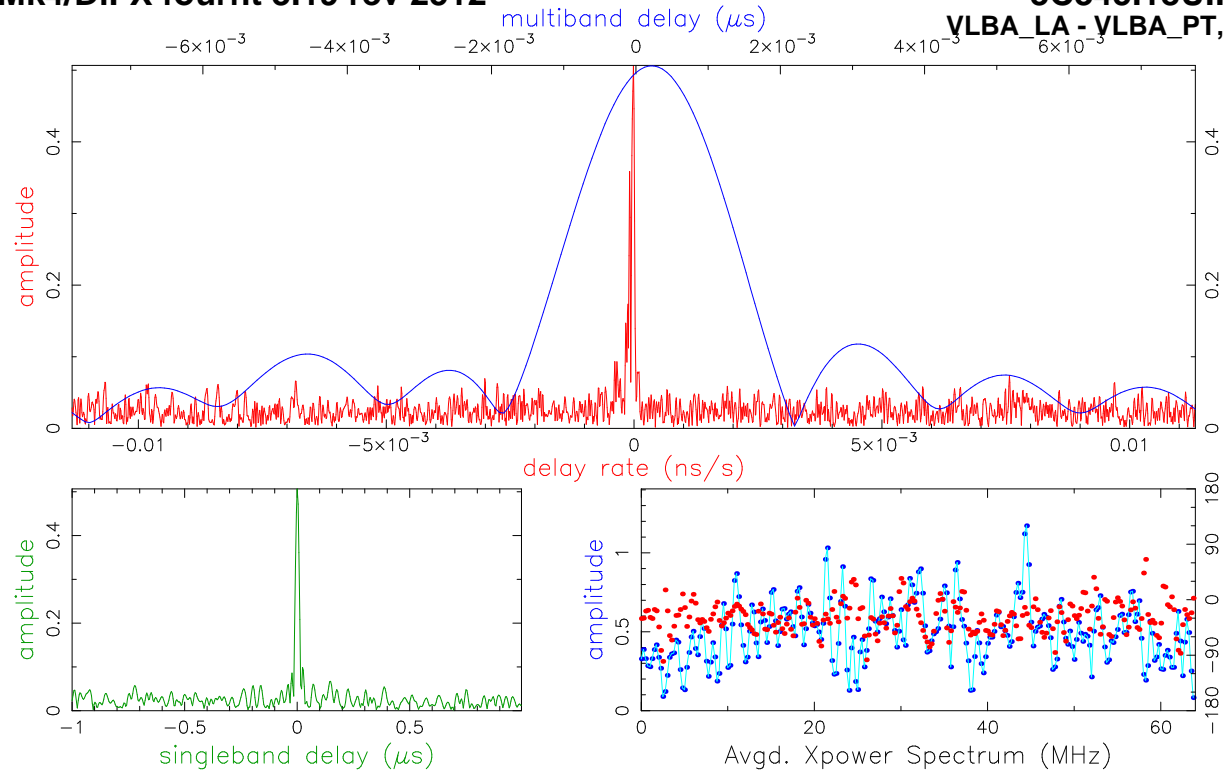


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-71.4	-73.3	-73.4	-66.5	-70.6	-77.6	-75.3	-61.1	Phase	-71.4
	1.3	1.4	1.4	1.4	1.4	1.3	1.1	1.0	Ampl.	1.3
	258.6	258.8	258.7	259.1	258.6	258.9	258.5	259.1	Sbd box	258.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.28150525315E+02		Apriori delay (usec)		4.28143518241E+02		Resid mbdelay (usec)		7.00707E-03	+/- 1.7E-05
Sband delay (usec)	4.28150521741E+02		Apriori clock (usec)		-1.7630499E+01		Resid sbdelay (usec)		7.00350E-03	+/- 1.3E-04
Phase delay (usec)	4.28143515940E+02		Apriori clockrate (us/s)		-1.9848659E-07		Resid phdelay (usec)		-2.30113E-06	+/- 5.6E-08
Delay rate (us/s)	1.17105311662E-03		Apriori rate (us/s)		1.17103564075E-03		Resid rate (us/s)		1.74759E-08	+/- 2.7E-10
Total phase (deg)	166.7		Apriori accel (us/s/s)		-4.84496584909E-06		Resid phase (deg)		-71.4	+/- 1.7

	RMS	Theor.	Amplitude	1.276 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	21.3	4.2	Search (2048X32)	1.214	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	14.1	7.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	5.6	2.5	Inc. seg. avg.	1.359	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	12.0	4.3	Inc. frq. avg.	1.274	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 297.6 el 39.4 pa 77.7 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -16.467 -550.059 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/kp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/kp.W.86.18UIFP

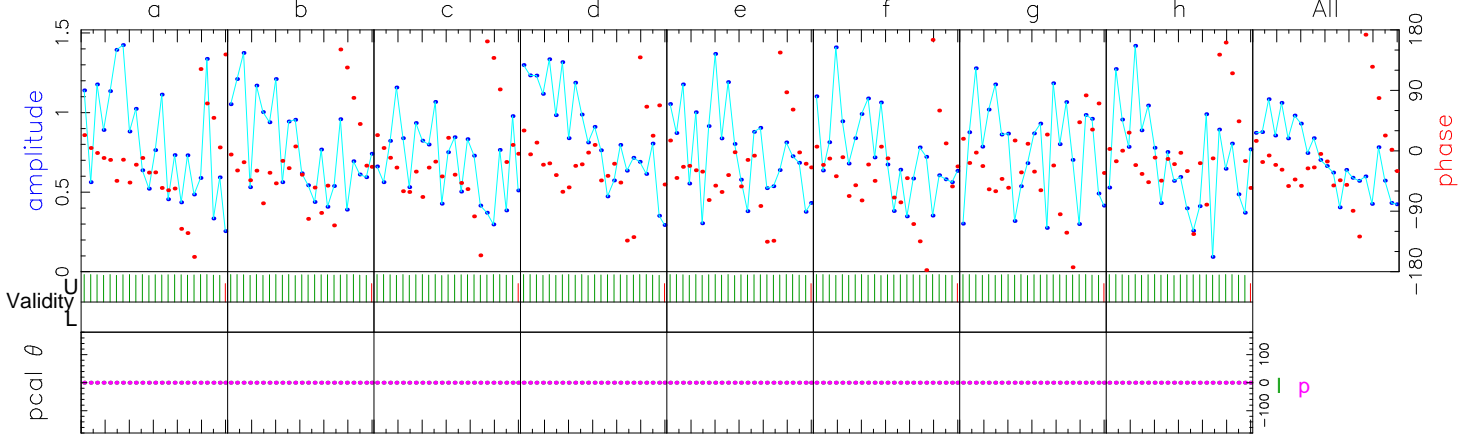


Fringe quality 7

SNR 26.1
Int time 355.299
Amp 0.507
Phase -25.7
PFD 0.0e+00
Delays (us)
SBD 0.000440
MBD 0.000228
Fringe rate (Hz) -0.001234
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

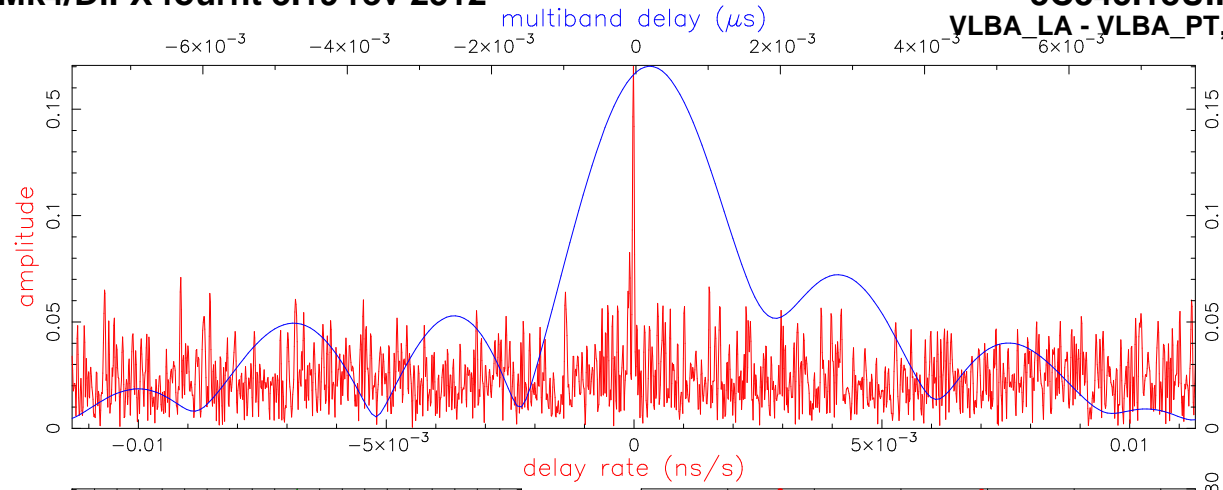
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150950
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

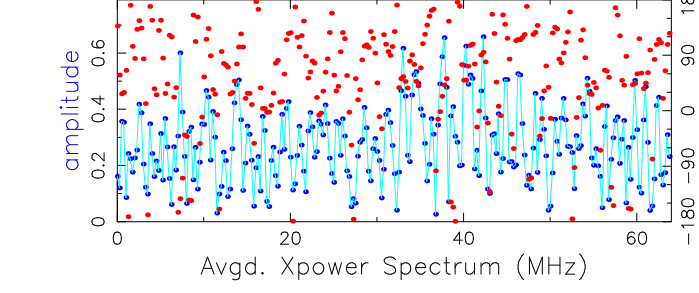
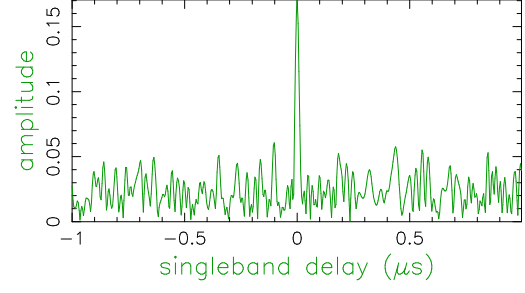


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.3	-31.7	-26.3	-17.6	-30.7	-35.9	-28.1	-16.8	Phase	-25.7
	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	Ampl.	0.5
	257.2	257.4	257.1	257.0	257.3	257.0	257.0	256.8	Sbd box	257.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.32466413035E+02		Apriori delay (usec)		-2.32466640889E+02		Resid mbdelay (usec)		2.27854E-04	+/- 4.2E-05
Sband delay (usec)	-2.32466200639E+02		Apriori clock (usec)		-2.0995321E+01		Resid sbdelay (usec)		4.40250E-04	+/- 3.3E-04
Phase delay (usec)	-2.32466641718E+02		Apriori clockrate (us/s)		-3.5488658E-07		Resid phdelay (usec)		-8.28674E-07	+/- 1.4E-07
Delay rate (us/s)	4.47201110768E-03		Apriori rate (us/s)		4.47202543259E-03		Resid rate (us/s)		-1.43249E-08	+/- 6.8E-10
Total phase (deg)			Apriori accel (us/s/s)		2.64169488904E-06		Resid phase (deg)		-25.7	+/- 4.4

ph/seg (deg) 60.7 10.5 Search (2048X32) 0.491 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.8 18.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.7 6.2 Inc. seg. avg. 0.711 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.3 10.8 Inc. frq. avg. 0.507 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 296.3 el 37.2 pa 70.9 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -29.063 316.174 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/lp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/lp.W.101.18UIFP simultaneous interpolator

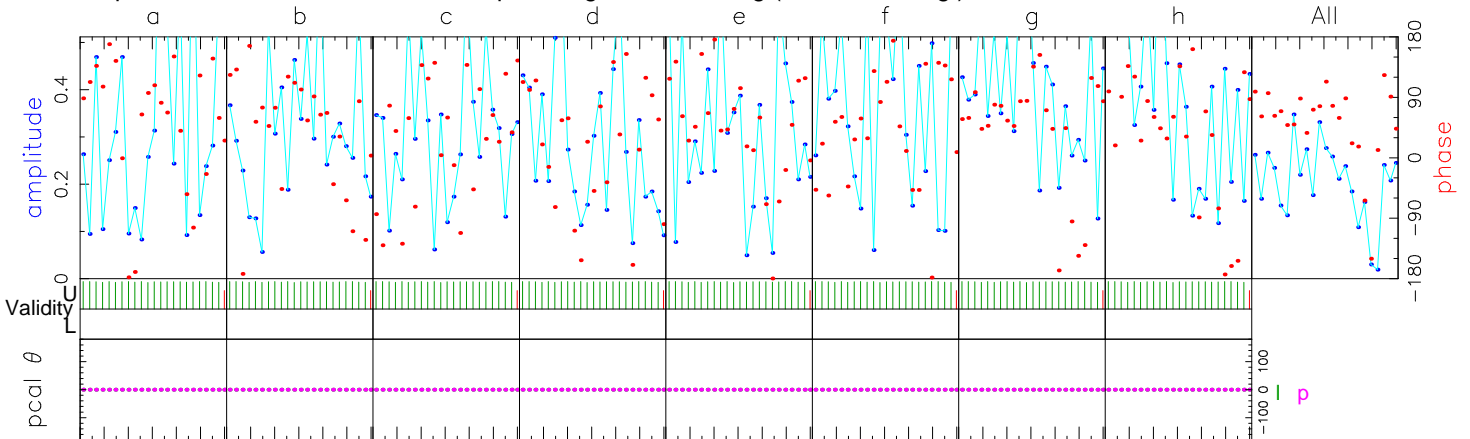


Fringe quality 9
SNR 8.8
Int time 355.298
Amp 0.171
Phase 71.3
PFD 5.4e-10
Delays (us)
SBD -0.000666
MBD 0.000181
Fringe rate (Hz)
-0.001141
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150953
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



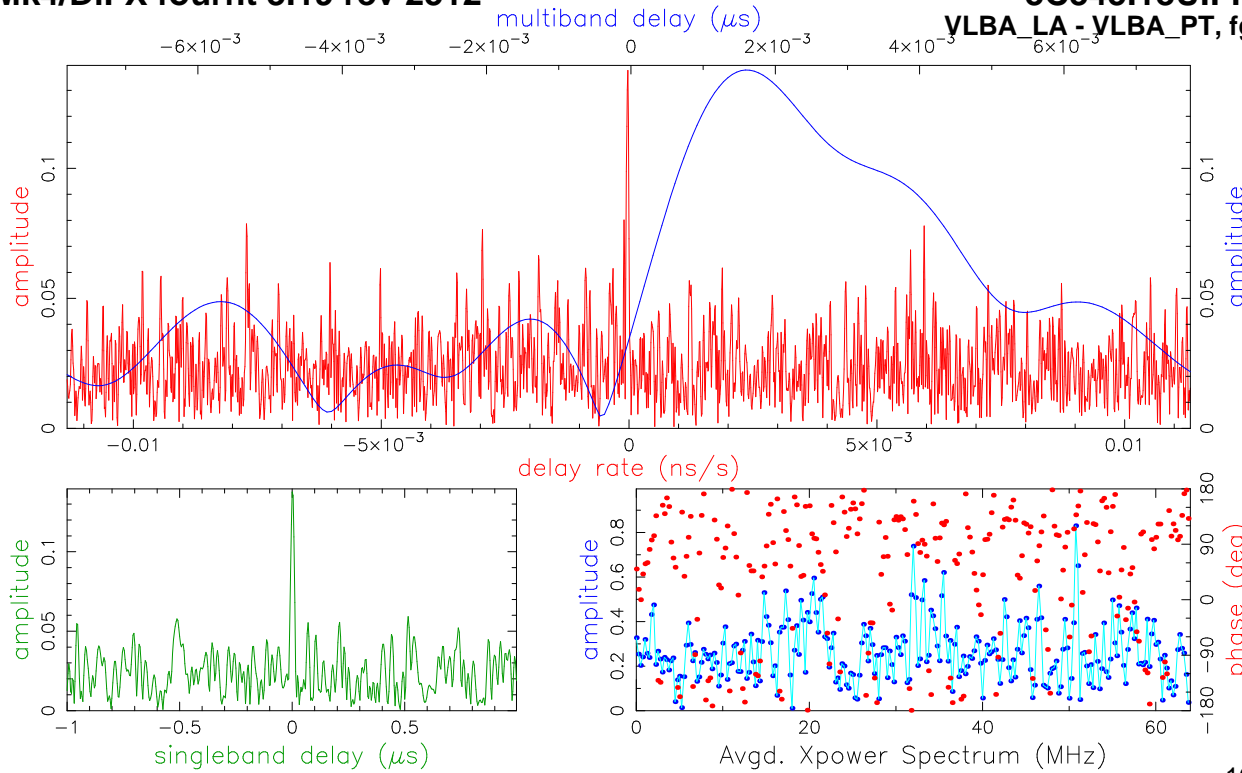
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.32466460035E+02				-2.32466640889E+02				1.80854E-04	+/- 1.2E-04
Sband delay (usec)	-2.32467307139E+02				-2.0995321E+01				-6.66250E-04	+/- 9.8E-04
Phase delay (usec)	-2.32466638590E+02				-3.5488658E-07				2.29935E-06	+/- 4.2E-07
Delay rate (us/s)	4.47201218468E-03				4.47202543259E-03				-1.32479E-08	+/- 2.0E-09
Total phase (deg)			-89.3		2.64169488904E-06				71.3	+/- 13.0
	RMS	Theor.	Amplitude	0.171 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	49.8	31.2	Search (2048X32)	0.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	51.6	54.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	13.7	18.4	Inc. seg. avg.	0.179	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	34.2	32.2	Inc. frq. avg.	0.165	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

l: az 296.3 el 37.2 pa 70.9 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -29.063 316.174 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/lp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/lp.W.117.18UIFP

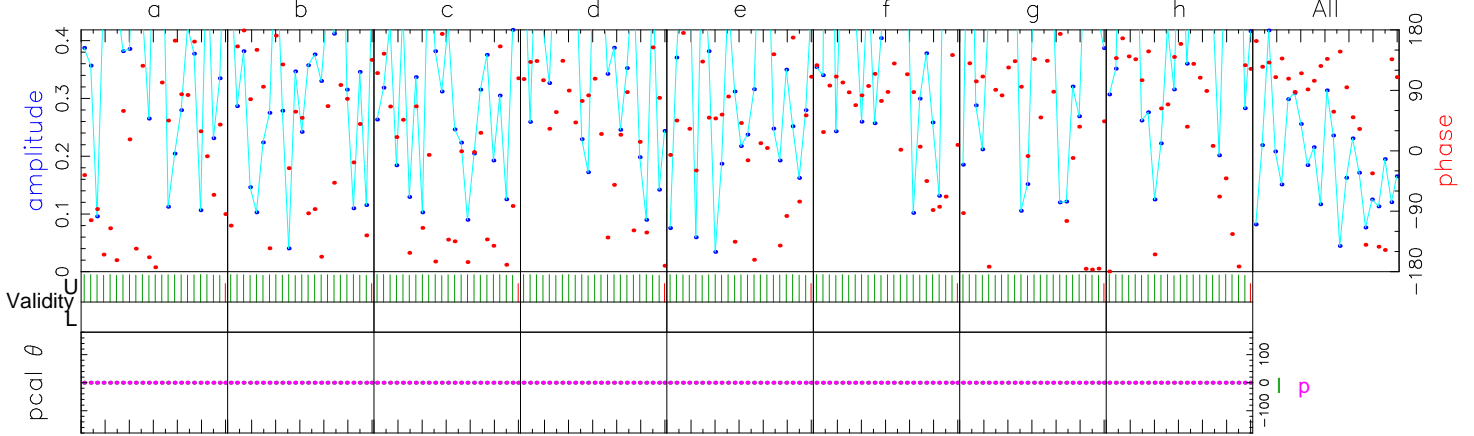


Fringe quality 0

SNR 7.2
Int time 355.299
Amp 0.140
Phase 111.9
PFD 1.9e-04
Delays (us)
SBD 0.001560
MBD 0.001665
Fringe rate (Hz)
-0.001474
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150957
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



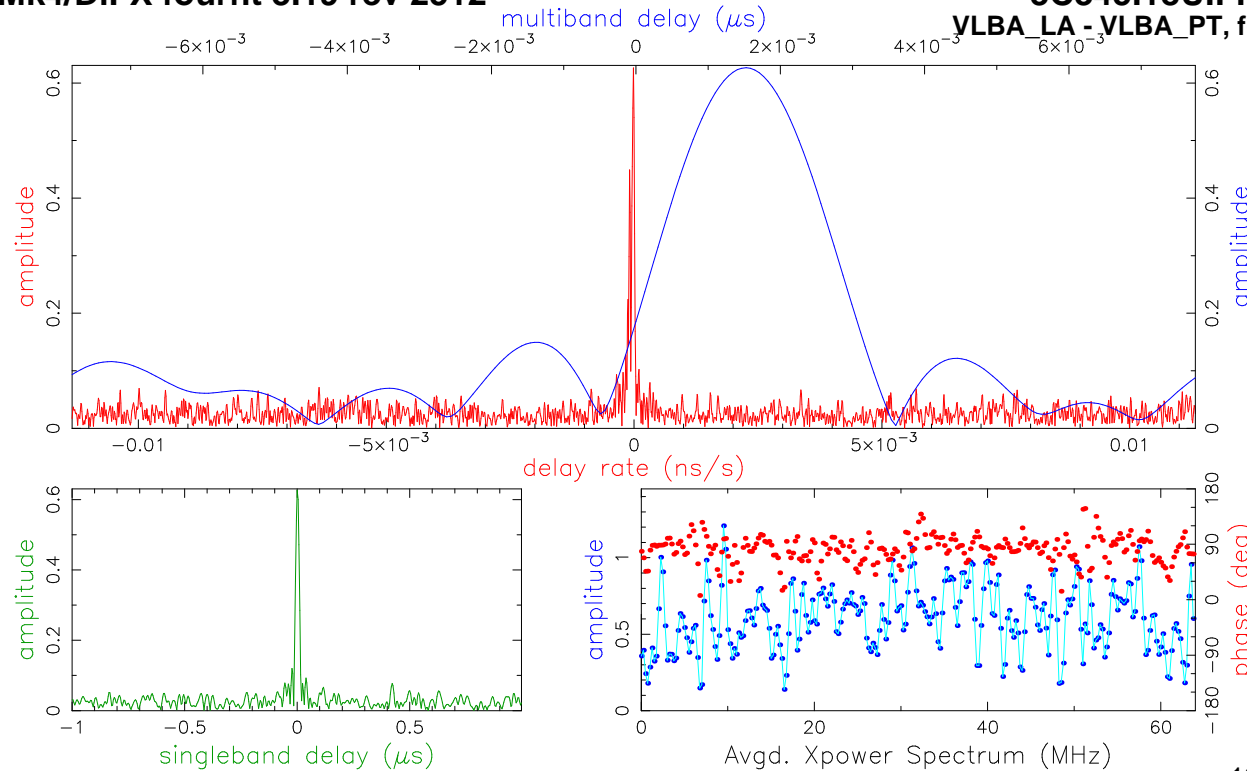
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-169.0	133.8	137.2	91.8	63.2	82.8	119.4	136.9	Phase	111.9
	0.1	0.1	0.0	0.2	0.1	0.3	0.3	0.2	Ampl.	0.1
	385.4	417.8	290.0	256.3	310.6	257.6	257.7	258.0	Sbd box	257.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp	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	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.32464975682E+02	Apriori delay (usec)	-2.32466640889E+02	Resid mbdelay (usec)	1.66521E-03	+/-	1.5E-04
Sband delay (usec)	-2.32465081139E+02	Apriori clock (usec)	-2.0995321E+01	Resid sbdelay (usec)	1.55975E-03	+/-	1.2E-03
Phase delay (usec)	-2.32466637279E+02	Apriori clockrate (us/s)	-3.5488658E-07	Resid phdelay (usec)	3.61000E-06	+/-	5.1E-07
Delay rate (us/s)	4.47200831738E-03	Apriori rate (us/s)	4.47202543259E-03	Resid rate (us/s)	-1.71152E-08	+/-	2.5E-09
Total phase (deg)	-48.7	Apriori accel (us/s/s)	2.64169488904E-06	Resid phase (deg)	111.9	+/-	15.9

ph/seg (deg)	57.6	Theor.	38.2	Amplitude	0.140 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	73.0		66.6	Search (2048X32)	0.137	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	44.1		22.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	66.1		39.3	Inc. seg. avg.	0.157	Sample rate(MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.148	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

l: az 296.3 el 37.2 pa 70.9 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -29.063 316.174 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/lp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/lp.W.133.18UIFP

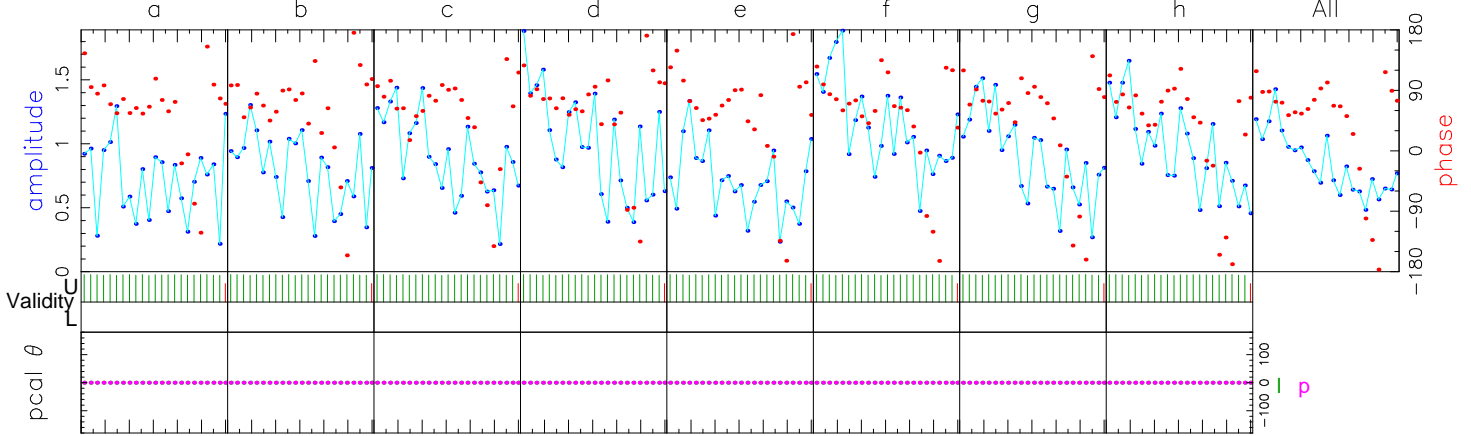


Fringe quality 7

SNR 32.5
Int time 355.298
Amp 0.631
Phase 77.2
PFD 0.0e+00
Delays (us)
SBD 0.001048
MBD 0.001544
Fringe rate (Hz)
-0.001121
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150946
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	79.9	78.1	71.1	83.9	74.1	80.4	77.2	71.2	Phase	77.2
l	0.5	0.6	0.7	0.7	0.5	0.8	0.6	0.6	Ampl.	0.6
p	257.5	257.4	257.0	257.6	257.2	257.2	257.1	257.3	Sbd box	257.3
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.32465097285E+02	Apriori delay (usec)	-2.32466640889E+02	Resid mbdelay (usec)	1.54360E-03	+/-	3.3E-05
Sband delay (usec)	-2.32465593139E+02	Apriori clock (usec)	-2.0995321E+01	Resid sbdelay (usec)	1.04775E-03	+/-	2.7E-04
Phase delay (usec)	-2.32466638400E+02	Apriori clockrate (us/s)	-3.5488658E-07	Resid phdelay (usec)	2.48884E-06	+/-	1.1E-07
Delay rate (us/s)	4.47201241567E-03	Apriori rate (us/s)	4.47202543259E-03	Resid rate (us/s)	-1.30169E-08	+/-	5.5E-10
Total phase (deg)	-83.5	Apriori accel (us/s/s)	2.64169488904E-06	Resid phase (deg)	77.2	+/-	3.5

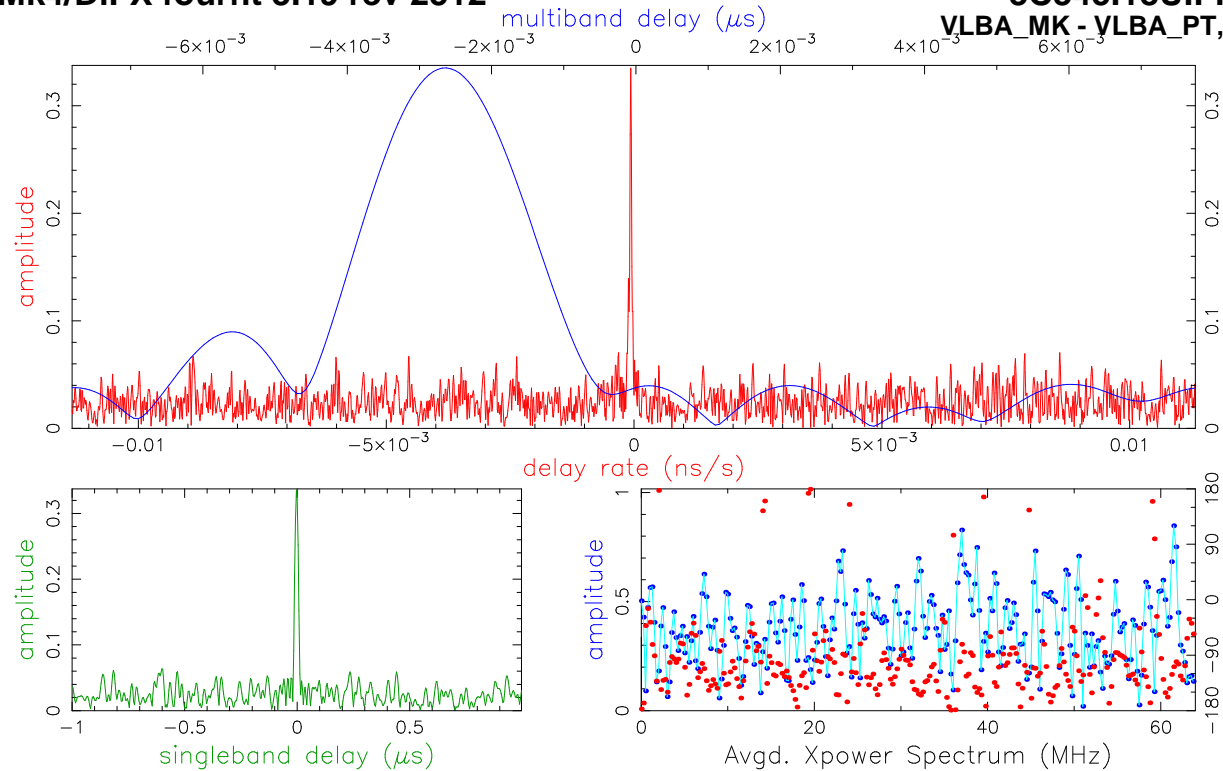
ph/seg (deg)	61.6	RMS	61.6	Theor.	8.5	Amplitude	0.631 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	51.0		51.0		14.8	Search (2048X32)	0.622	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	4.9		4.9		5.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	15.9		15.9		8.7	Inc. seg. avg.	0.840	Sample rate (MSamp/s):	128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.626	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	

l: az 296.3 el 37.2 pa 70.9 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -29.063 316.174 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/lp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/lp.W.85.18UIFP

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, mp
VLBA_MK - VLBA_PT, fgroup W, pol RR

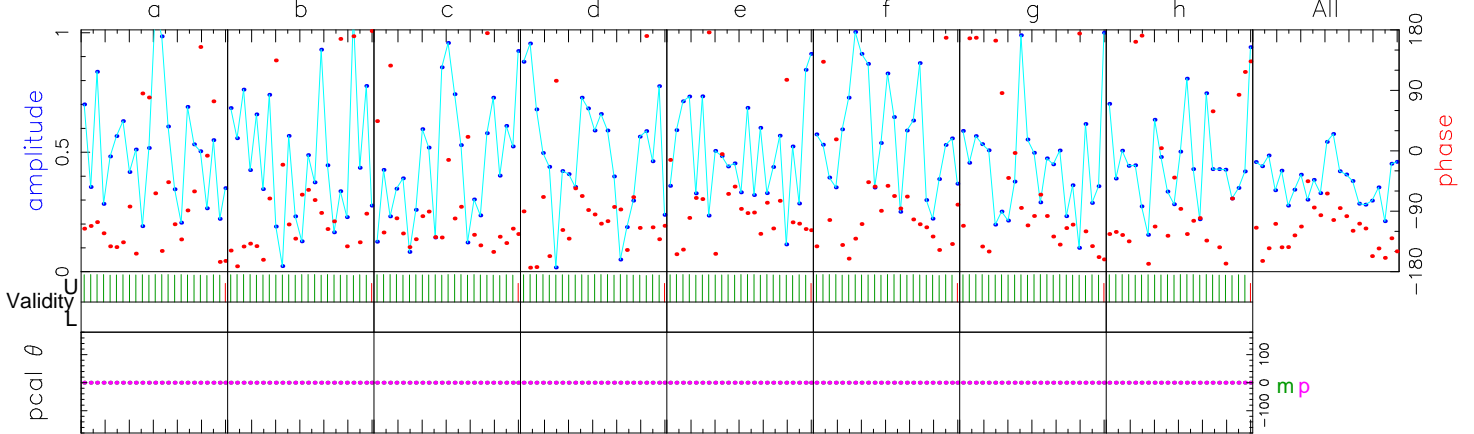


Fringe quality 9

SNR 17.4
Int time 355.351
Amp 0.337
Phase -117.0
PFD 0.0e+00
Delays (us)
SBD -0.002820
MBD -0.002621
Fringe rate (Hz)
-0.005943
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150951
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

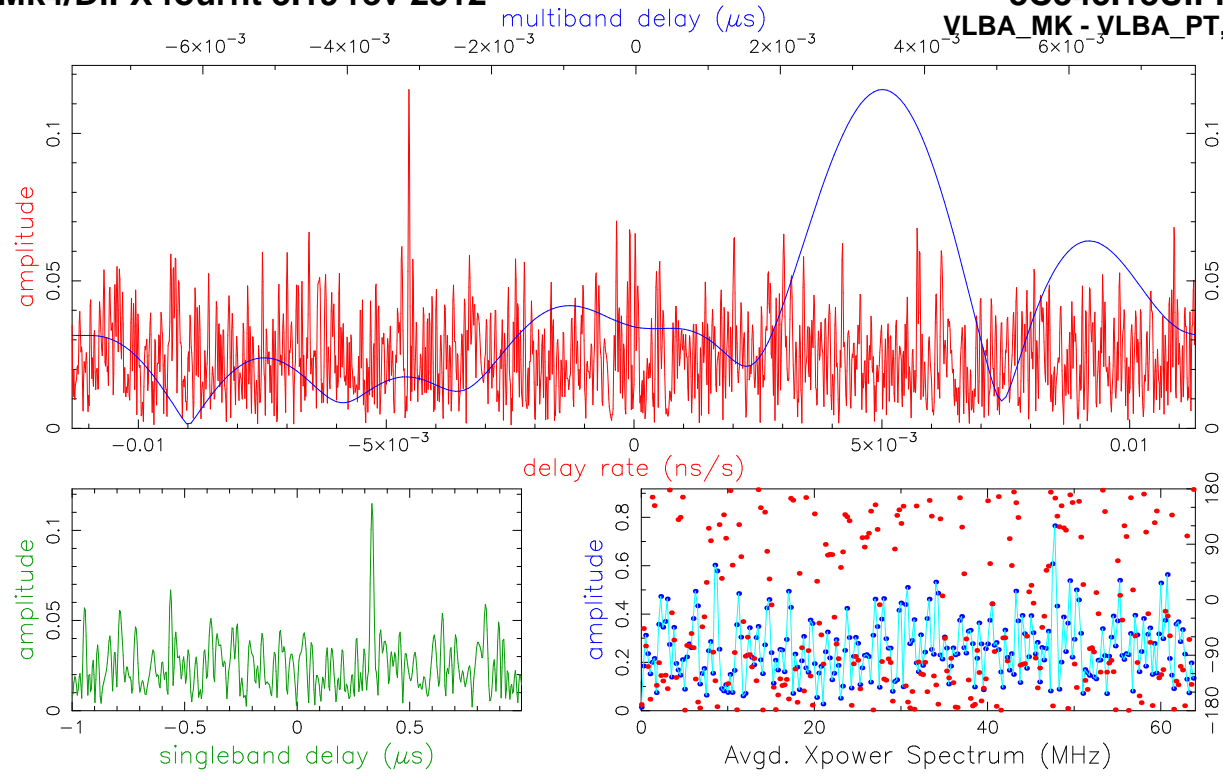


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-114.9	-128.9	-116.3	-114.8	-100.4	-107.6	-126.8	-134.7	Phase	-117.0
	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.2	Ampl.	0.3
	255.8	256.6	256.2	255.6	256.8	256.3	256.4	255.7	Sbd box	256.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.19270468398E+03		Apriori delay (usec)		6.19270730455E+03		Resid mbdelay (usec)		-2.62057E-03	+/- 6.2E-05
Sband delay (usec)	6.19270448455E+03		Apriori clock (usec)		-9.1554356E+00		Resid sbdelay (usec)		-2.82000E-03	+/- 5.0E-04
Phase delay (usec)	6.19270730078E+03		Apriori clockrate (us/s)		2.8711340E-07		Resid phdelay (usec)		-3.77165E-06	+/- 2.1E-07
Delay rate (us/s)	5.27321881343E-01		Apriori rate (us/s)		5.27321950340E-01		Resid rate (us/s)		-6.89972E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.91714842398E-05		Resid phase (deg)		-117.0	+/- 6.6

ph/seg (deg) 30.3 15.8 Search (2048X32) 0.337 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.8 27.6 Interp. 0.326 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.4 9.3 Inc. seg. avg. 0.371 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 15.1 16.3 Inc. frq. avg. 0.336 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 324.7 el 64.1 pa 134.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -4005.227 -4699.670 ion window (TEC) 0.00 0.00
 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/mp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/mp.W.108.18UIFP

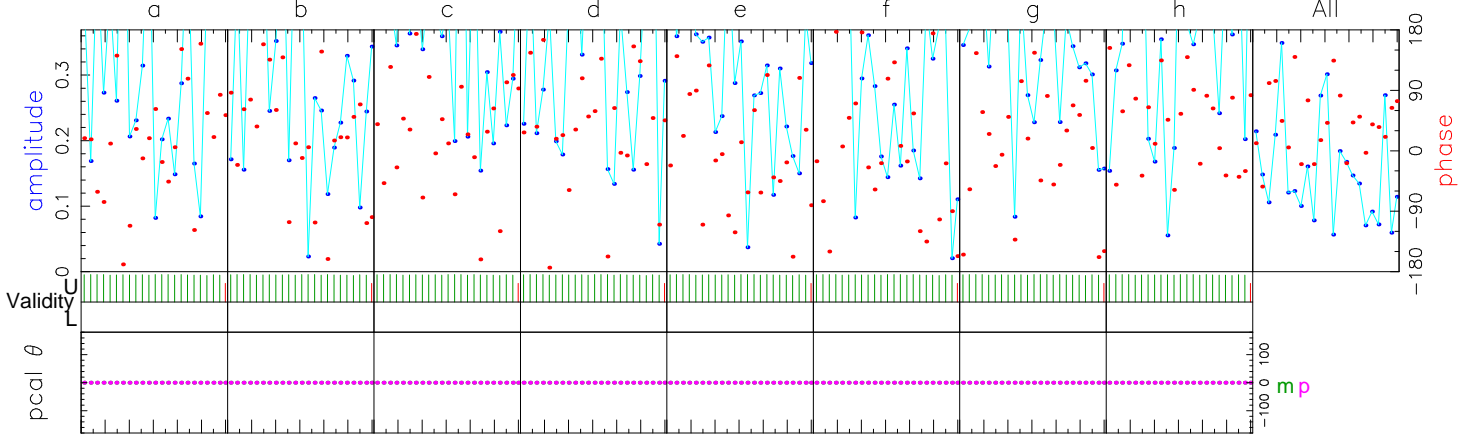
Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, mp
VLBA_MK - VLBA_PT, fgroup W, pol LR



Fringe quality 0
SNR 5.9
Int time 355.346
Amp 0.123
Phase 38.7
PFD 5.4e-01
Delays (us)
SBD 0.332605
MBD 0.003439
Fringe rate (Hz)
-0.391126
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150955
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

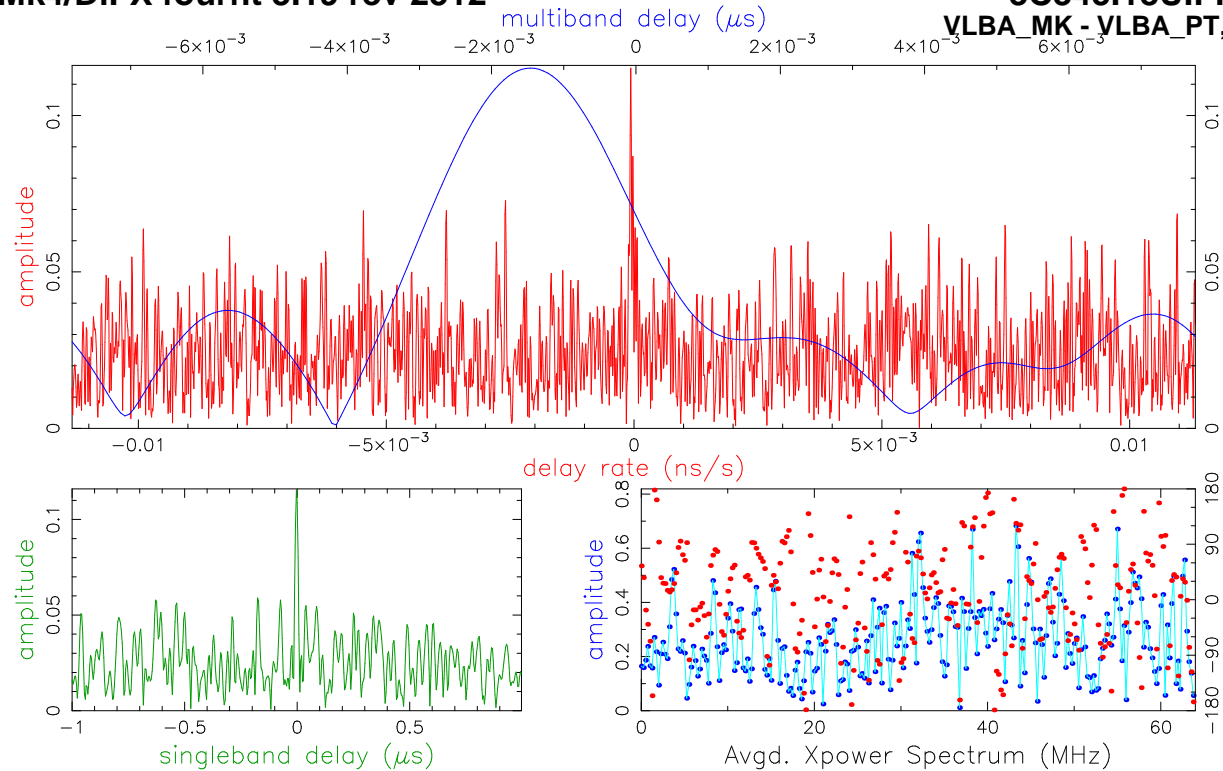


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	28.2	49.2	46.4	59.3	6.5	-50.8	38.3	49.6	Phase	38.7
	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	Ampl.	0.1
	209.2	119.3	114.7	508.1	185.6	420.2	343.9	341.0	Sbd box	342.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.19303886834E+03		Apriori delay (usec)		6.19270730455E+03		Resid mbdelay (usec)		3.43879E-03	+/- 1.8E-04
Sband delay (usec)	6.19303990930E+03		Apriori clock (usec)		-9.1554356E+00		Resid sbdelay (usec)		3.32605E-01	+/- 1.5E-03
Phase delay (usec)	6.19270730580E+03		Apriori clockrate (us/s)		2.8711340E-07		Resid phdelay (usec)		1.24696E-06	+/- 6.2E-07
Delay rate (us/s)	5.27317409760E-01		Apriori rate (us/s)		5.27321950340E-01		Resid rate (us/s)		-4.54058E-06	+/- 3.0E-09
Total phase (deg)	115.7		Apriori accel (us/s/s)		-4.91714842398E-05		Resid phase (deg)		38.7	+/- 19.3

ph/seg (deg) 49.5 46.3 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.4 80.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 40.6 27.3 Inc. seg. avg. 0.125 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 35.6 47.7 Inc. frq. avg. 0.122 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 324.7 el 64.1 pa 134.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -4005.227 -4699.670 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/mp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/mp.W.123.18UIFP

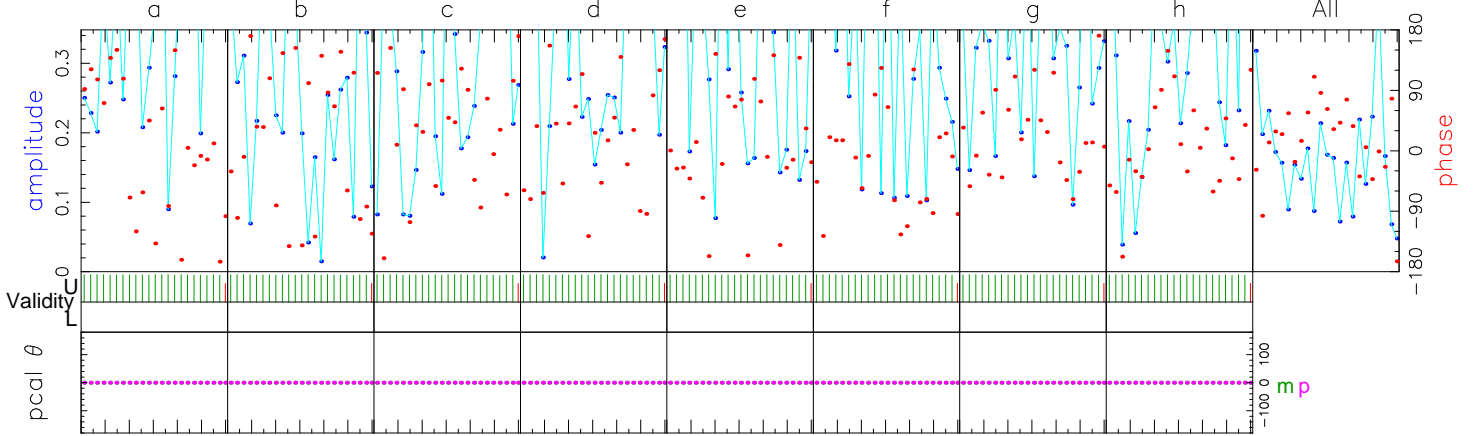
Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, mp
VLBA_MK - VLBA_PT, fgroup W, pol RL



Fringe quality 0
SNR 6.0
Int time 355.351
Amp 0.116
Phase 12.2
PFD 4.4e-01
Delays (us)
SBD -0.002905
MBD -0.001437
Fringe rate (Hz)
-0.005929
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150958
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

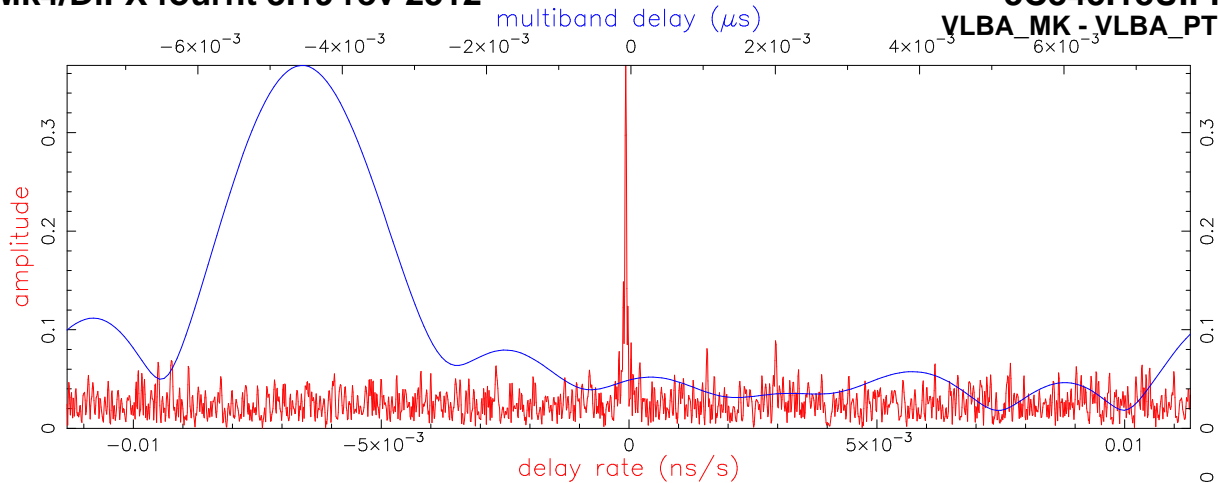


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	31.2	-111.8	45.0	3.7	7.1	-10.5	20.4	16.1	Phase	12.2
	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.1
	127.4	183.7	254.0	347.2	255.8	100.1	256.0	84.7	Sbd box	256.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.19270586777E+03		Apriori delay (usec)		6.19270730455E+03		Resid mbdelay (usec)		-1.43678E-03	+/- 1.8E-04
Sband delay (usec)	6.19270439905E+03		Apriori clock (usec)		-9.1554356E+00		Resid sbdelay (usec)		-2.90550E-03	+/- 1.4E-03
Phase delay (usec)	6.19270730494E+03		Apriori clockrate (us/s)		2.8711340E-07		Resid phdelay (usec)		3.93018E-07	+/- 6.2E-07
Delay rate (us/s)	5.27321881510E-01		Apriori rate (us/s)		5.27321950340E-01		Resid rate (us/s)		-6.88300E-08	+/- 3.0E-09
Total phase (deg)	89.2		Apriori accel (us/s/s)		-4.91714842398E-05		Resid phase (deg)		12.2	+/- 19.2

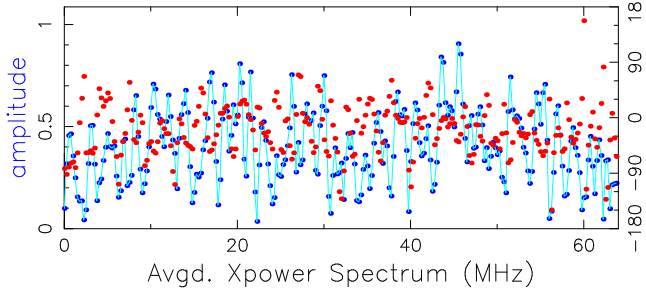
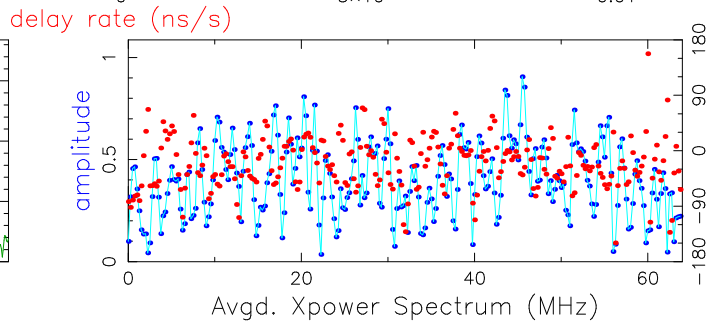
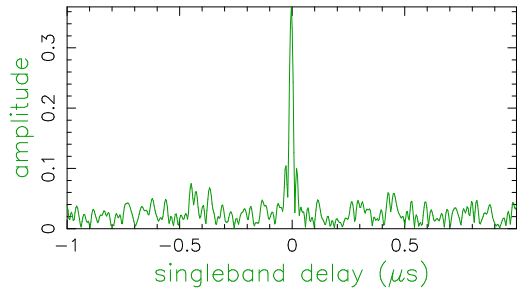
ph/seg (deg) 57.5 45.9 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 81.7 80.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 54.0 27.1 Inc. seg. avg. 0.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.2 47.3 Inc. frq. avg. 0.115 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 324.7 el 64.1 pa 134.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -4005.227 -4699.670 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/mp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/mp.W.137.18UIFP

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, mp
VLBA_MK - VLBA_PT, fgroup W, pol LL

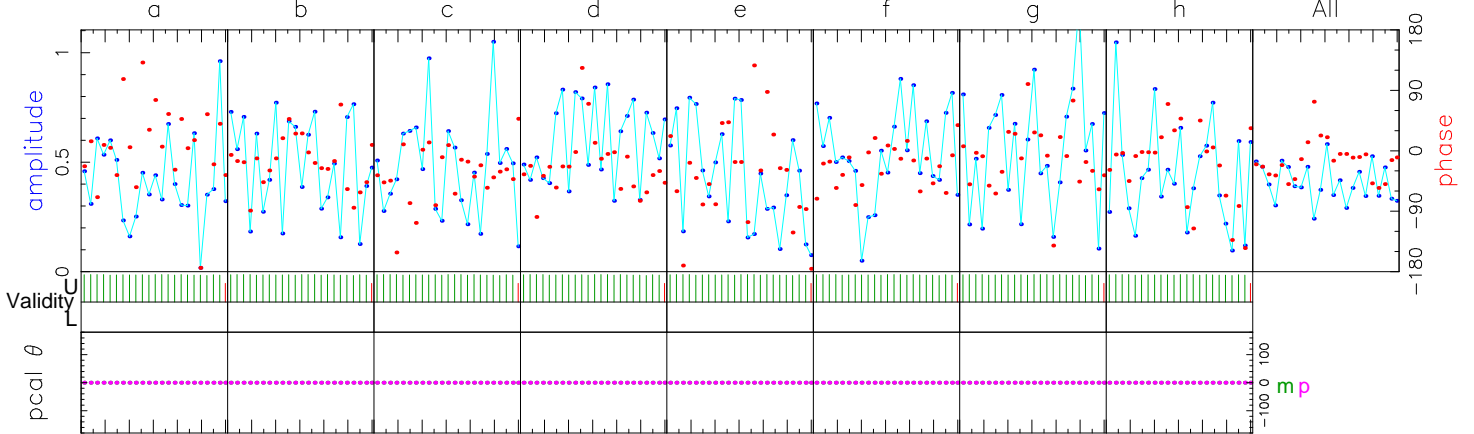


Fringe quality 9
SNR 19.0
Int time 355.347
Amp 0.368
Phase -17.1
PFD 0.0e+00
Delays (us)
SBD -0.004054
MBD -0.004559
Fringe rate (Hz)
-0.005952
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150948
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



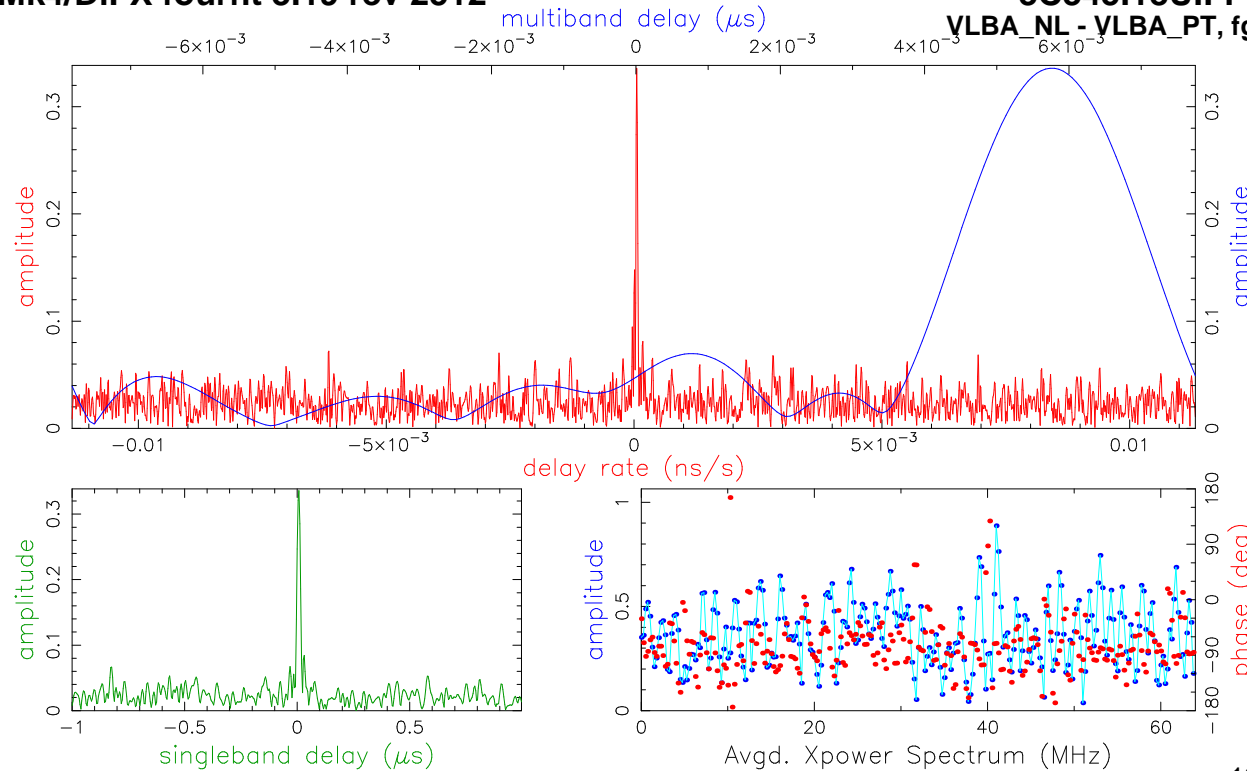
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	13.8	-15.5	-35.1	-26.4	-33.2	-23.9	-6.9	-1.9	Phase	-17.1
	0.3	0.4	0.4	0.5	0.3	0.5	0.4	0.3	Ampl.	0.4
	254.5	255.5	255.6	256.1	256.4	256.0	256.1	256.9	Sbd box	256.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.19270274561E+03		Apriori delay (usec)		6.19270730455E+03		Resid mbdelay (usec)		-4.55894E-03	+/- 5.7E-05
Sband delay (usec)	6.19270325030E+03		Apriori clock (usec)		-9.1554356E+00		Resid sbdelay (usec)		-4.05425E-03	+/- 4.5E-04
Phase delay (usec)	6.19270730400E+03		Apriori clockrate (us/s)		2.8711340E-07		Resid phdelay (usec)		-5.52535E-07	+/- 1.9E-07
Delay rate (us/s)	5.27321881241E-01		Apriori rate (us/s)		5.27321950340E-01		Resid rate (us/s)		-6.90993E-08	+/- 9.4E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.91714842398E-05		Resid phase (deg)		-17.1	+/- 6.0

ph/seg (deg) 28.6 14.5 Theor. Amplitude 0.368 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 25.5 25.3 Search (2048X32) 0.360 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 18.3 8.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 19.3 14.9 Inc. seg. avg. 0.396 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
m: az 324.7 el 64.1 pa 134.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -4005.227 -4699.670 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/mp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/mp.W.91.18UIFP simultaneous interpolator

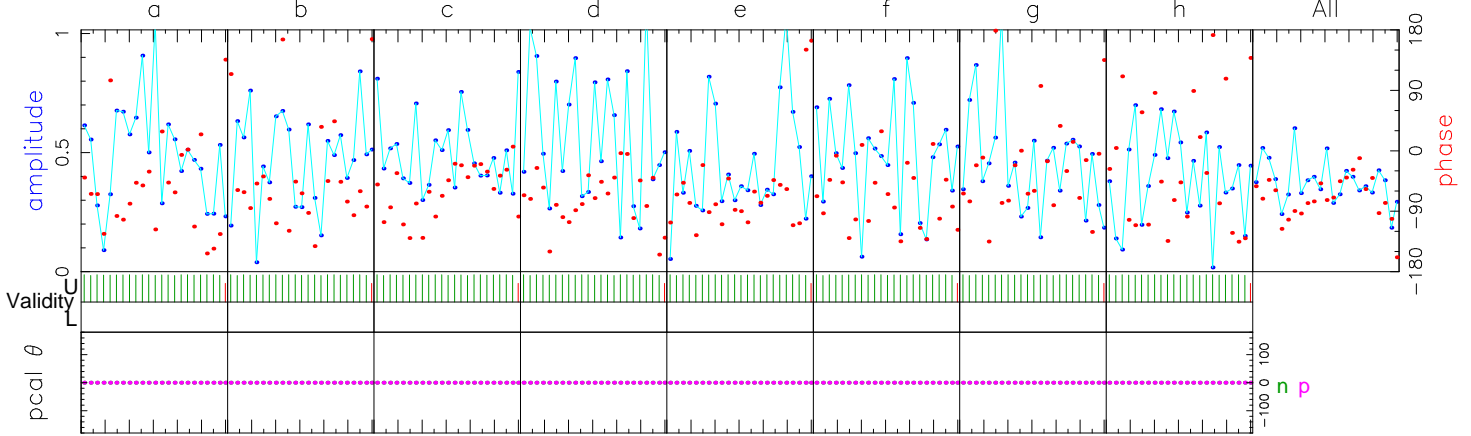


Fringe quality 9

SNR 17.4
Int time 353.714
Amp 0.339
Phase -67.2
PFD 0.0e+00
Delays (us)
SBD 0.006721
MBD 0.005731
Fringe rate (Hz) 0.004961
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

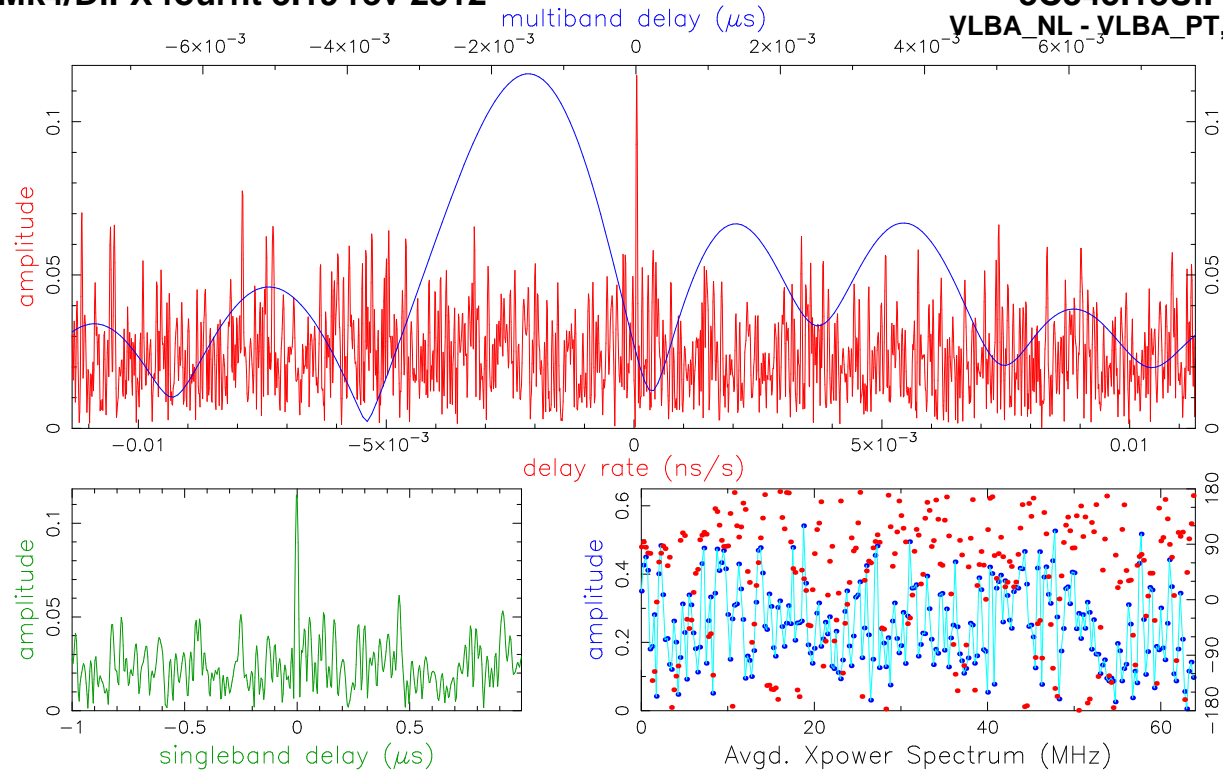
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150952
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



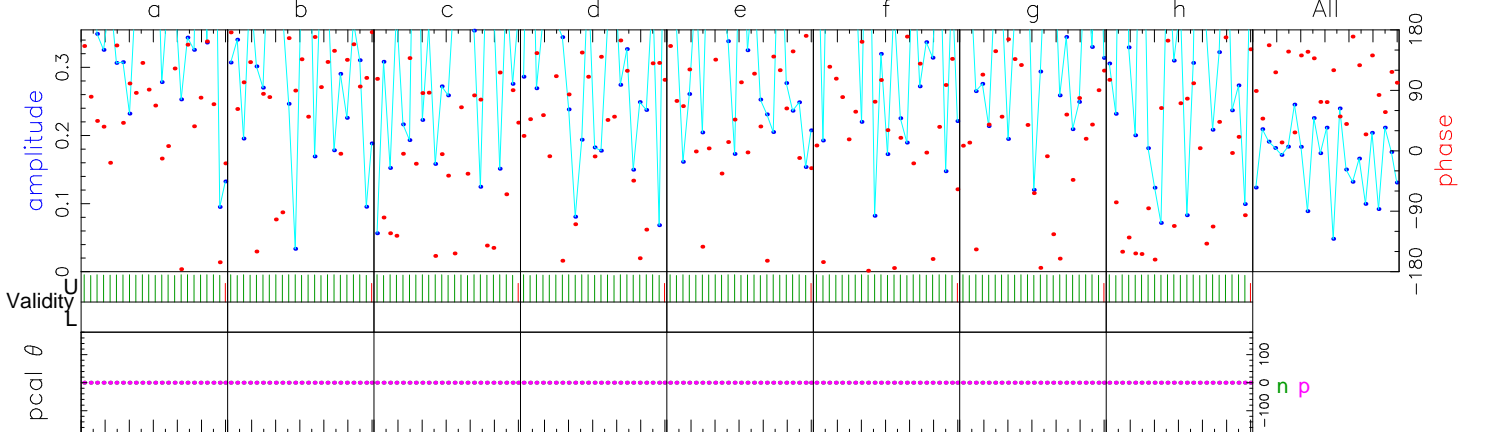
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-67.6	-78.3	-57.1	-68.6	-78.1	-63.4	-52.0	-79.0	Phase	-67.2
	0.3	0.3	0.4	0.5	0.4	0.4	0.3	0.2	Ampl.	0.3
	258.7	258.2	258.6	258.9	258.1	258.5	259.2	259.9	Sbd box	258.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.50615443521E+03		Apriori delay (usec)		-2.50616016641E+03		Resid mbdelay (usec)		5.73120E-03	+/- 6.2E-05
Sband delay (usec)	-2.50615344566E+03		Apriori clock (usec)		1.5010653E+01		Resid sbdelay (usec)		6.72075E-03	+/- 4.9E-04
Phase delay (usec)	-2.50616016858E+03		Apriori clockrate (us/s)		1.3011340E-07		Resid phdelay (usec)		-2.16860E-06	+/- 2.1E-07
Delay rate (us/s)	2.42150928744E-02		Apriori rate (us/s)		2.42150352786E-02		Resid rate (us/s)		5.75958E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		2.07979563530E-05		Resid phase (deg)		-67.2	+/- 6.6

ph/seg (deg) 30.2 15.8 Search (2048X32) 0.331 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 29.1 27.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 11.0 9.3 Inc. seg. avg. 0.364 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 26.2 16.2 Inc. frq. avg. 0.336 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 298.5 el 29.7 pa 58.6 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -147.887 2058.741 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/np..18UIFP Output file: /Exps/c201b/v1/1234/No0090/np.W.112.18UIFP



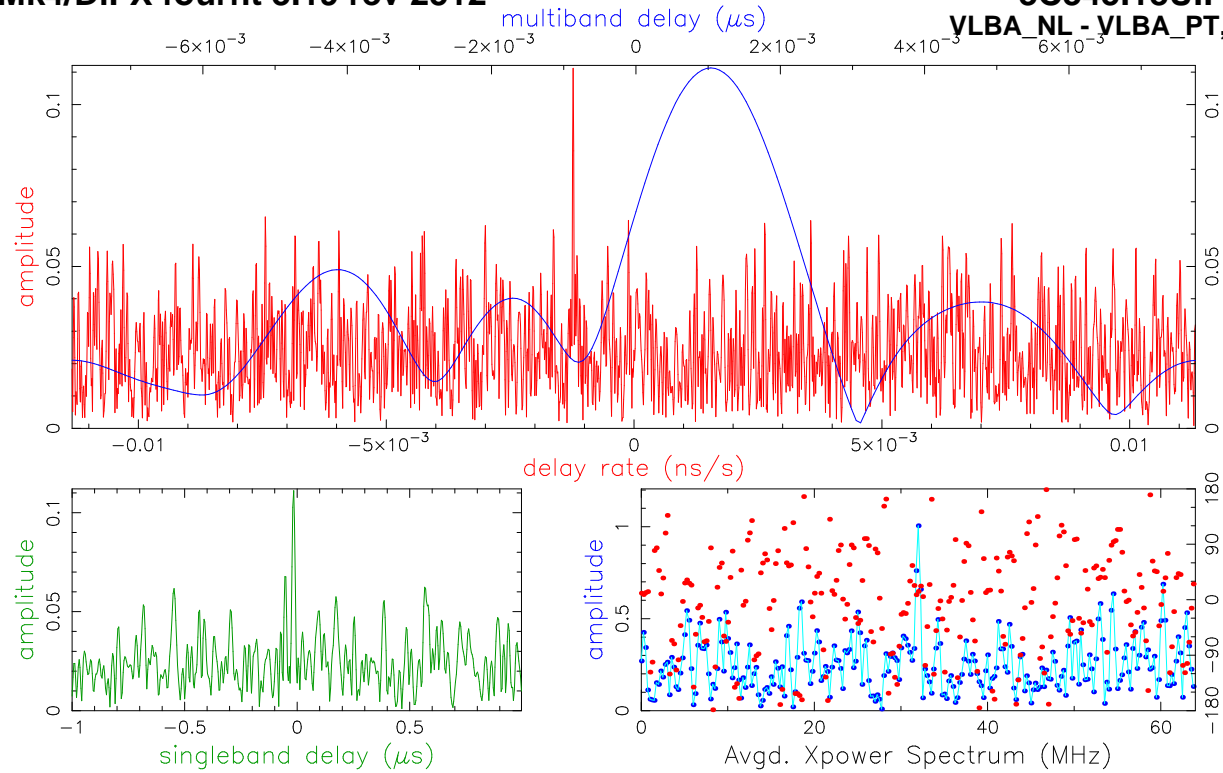
Fringe quality 0
SNR 6.1
Int time 353.715
Amp 0.118
Phase 94.3
PFD 2.6e-01
Delays (us)
SBD -0.001911
MBD -0.001601
Fringe rate (Hz) 0.004574
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150955
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



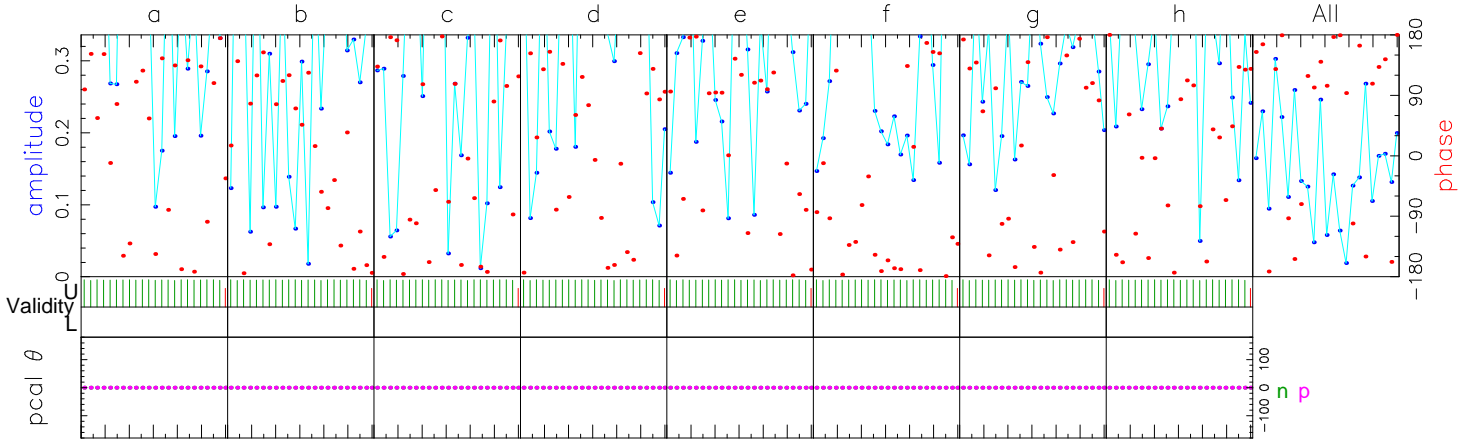
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.50616176737E+03									
Sband delay (usec)	-2.50616207716E+03									
Phase delay (usec)	-2.50616016337E+03									
Delay rate (us/s)	2.42150883800E-02									
Total phase (deg)			-170.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									94.3	+/- 18.8
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MSamp/s):	128									
Data rate(Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

n: az 298.5 el 29.7 pa 58.6 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -147.887 2058.741 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/np..18UIFP Output file: /Exps/c201b/v1/1234/No0090/np.W.127.18UIFP



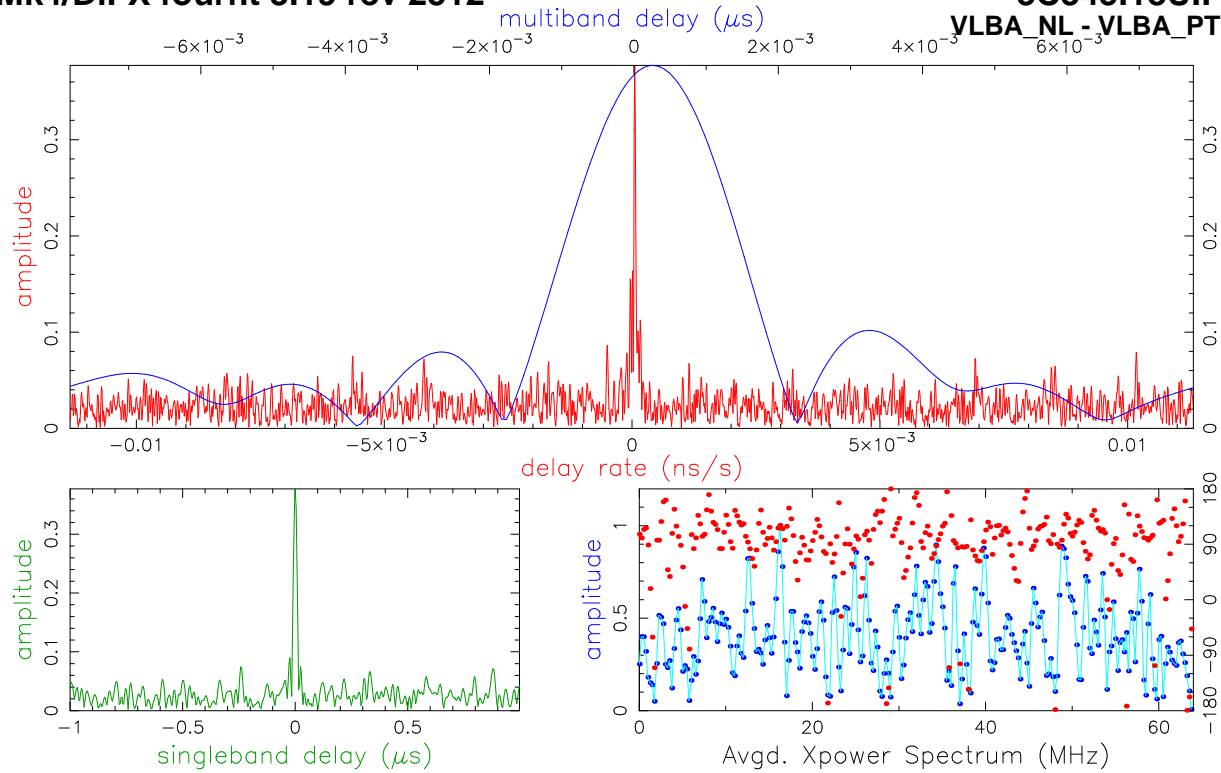
Fringe quality 0
SNR 5.7
Int time 353.714
Amp 0.112
Phase 169.6
PFD 9.1e-01
Delays (us)
SBD -0.016264
MBD 0.000996
Fringe rate (Hz)
-0.105956
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150959
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)	-2.50617479589E+03				-2.50616016641E+03				9.95518E-04	+/- 1.9E-04	
Sband delay (usec)	-2.50617643016E+03				1.5010653E+01				-1.62637E-02	+/- 1.5E-03	
Phase delay (usec)	-2.50616016094E+03				1.3011340E-07				5.46862E-06	+/- 6.4E-07	
Delay rate (us/s)	2.42138052332E-02				2.42150352786E-02				-1.23005E-06	+/- 3.1E-09	
Total phase (deg)			-94.9		2.07979563530E-05				169.6	+/- 20.0	
	RMS	Theor.	Amplitude	0.112 +/- 0.020	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5		
ph/seg (deg)	52.5	47.9	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000	
amp/seg (%)	75.9	83.6	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	27.8	28.2	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 128					dr window (ns/s)	-0.011 0.011
amp/frq (%)	38.7	49.3	Inc. frq. avg.	0.108	Data rate(Mb/s): 2048					ion window (TEC)	0.00 0.00

n: az 298.5 el 29.7 pa 58.6 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -147.887 2058.741 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/np..18UIFP Output file: /Exps/c201b/v1/1234/No0090/np.W.140.18UIFP

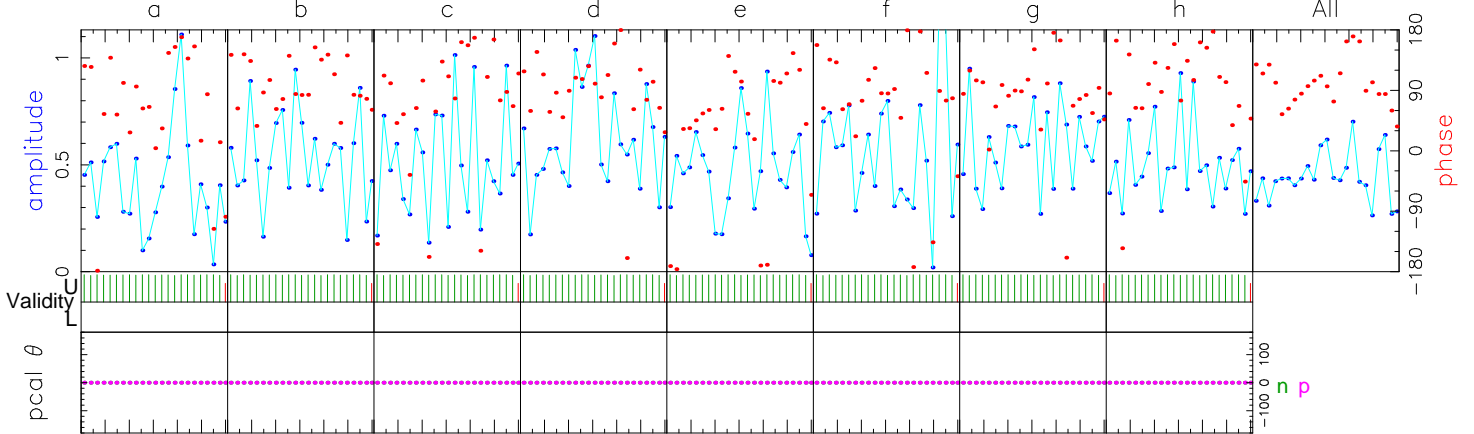


Fringe quality 9

SNR 19.4
Int time 353.715
Amp 0.377
Phase 102.0
PFD 0.0e+00
Delays (us)
SBD 0.000118
MBD 0.000262
Fringe rate (Hz) 0.004872
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 140200.00
Stop 140759.94
FRT 140500.00
Corr/FF/build
2020:198:233535
2020:199:150949
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



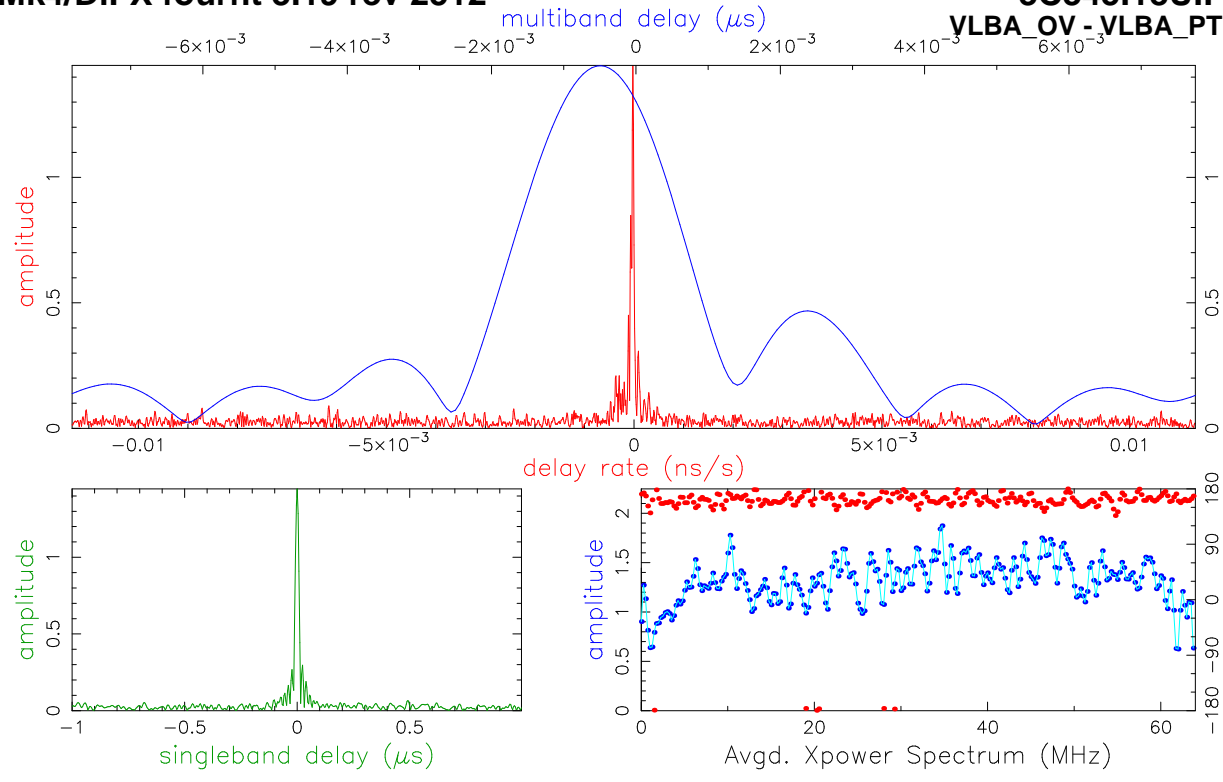
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.50615990418E+03	Apriori delay (usec)	-2.50616016641E+03	Resid mbdelay (usec)	2.62231E-04	+/-	5.6E-05
Sband delay (usec)	-2.50616004841E+03	Apriori clock (usec)	1.5010653E+01	Resid sbdelay (usec)	1.18000E-04	+/-	4.4E-04
Phase delay (usec)	-2.50616016312E+03	Apriori clockrate (us/s)	1.3011340E-07	Resid phdelay (usec)	3.28790E-06	+/-	1.9E-07
Delay rate (us/s)	2.42150918335E-02	Apriori rate (us/s)	2.42150352786E-02	Resid rate (us/s)	5.65549E-08	+/-	9.2E-10
Total phase (deg)	-162.5	Apriori accel (us/s/s)	2.07979563530E-05	Resid phase (deg)	102.0	+/-	5.9

ph/seg (deg)	33.3	Theor.	14.2	Amplitude	0.377 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	35.6		24.7	Search (2048X32)	0.368	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	6.1		8.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	21.2		14.6	Inc. seg. avg.	0.435	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.375	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

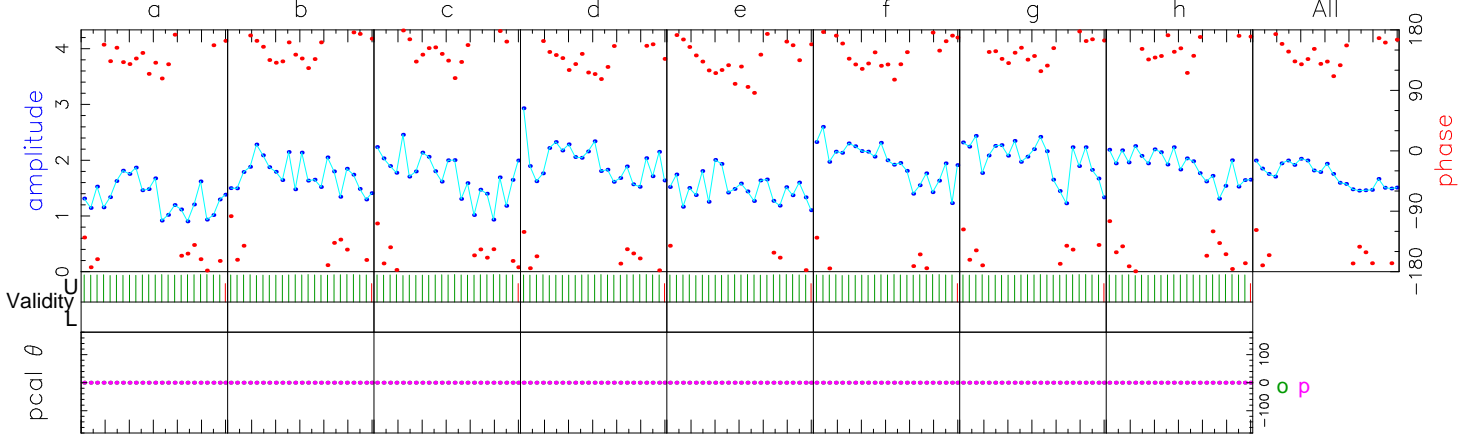
n: az 298.5 el 29.7 pa 58.6 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -147.887 2058.741 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/np..18UIFP Output file: /Exps/c201b/v1/1234/No0090/np.W.96.18UIFP



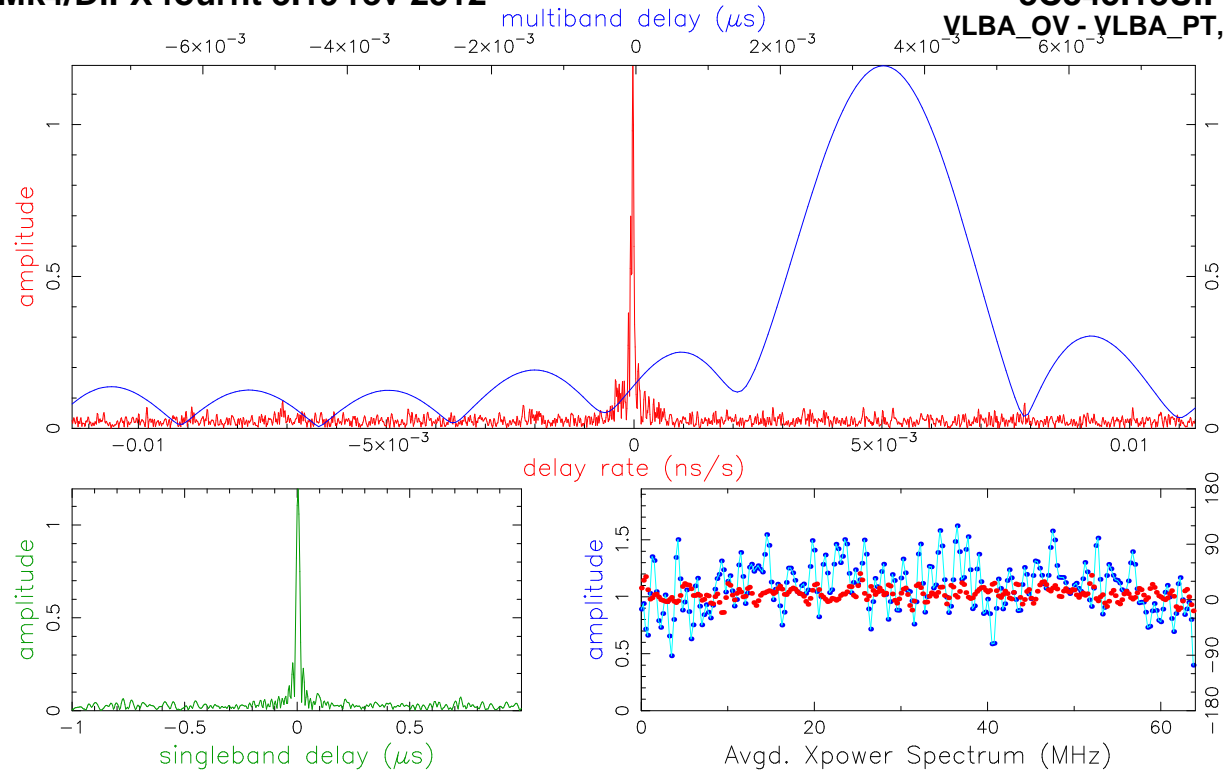
Fringe quality 6
 SNR 74.4
 Int time 354.069
 Amp 1.446
 Phase 163.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.000399
 MBD -0.000506
 Fringe rate (Hz)
 -0.001943
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 140200.00
 Stop 140759.94
 FRT 140500.00
 Corr/FF/build
 2020:198:233535
 2020:199:150950
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	161.9	170.9	172.1	158.1	145.5	155.6	166.5	176.2	Phase	163.6
	1.1	1.4	1.4	1.6	1.2	1.7	1.7	1.6	Ampl.	1.5
	256.8	256.8	256.8	256.8	256.9	257.1	257.0	257.0	Sbd box	256.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.41630092233E+03		Apriori delay (usec)		2.41630142859E+03		Resid mbdelay (usec)		-5.06261E-04	+/- 1.5E-05
Sband delay (usec)	2.41630102959E+03		Apriori clock (usec)		2.8075428E+09		Resid sbdelay (usec)		-3.99000E-04	+/- 1.2E-04
Phase delay (usec)	2.41630143387E+03		Apriori clockrate (us/s)		-2.8865799E-09		Resid phdelay (usec)		5.27687E-06	+/- 5.0E-08
Delay rate (us/s)	1.11543083885E-01		Apriori rate (us/s)		1.11543106446E-01		Resid rate (us/s)		-2.25619E-08	+/- 2.4E-10
Total phase (deg)	184.9		Apriori accel (us/s/s)		-9.84718901107E-06		Resid phase (deg)		163.6	+/- 1.5

ph/seg (deg) 33.7 3.7 Theor. Amplitude 1.446 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 23.9 6.4 Search (2048X32) 1.444 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.0 2.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 13.3 3.8 Inc. seg. avg. 1.724 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 o: az 291.5 el 46.6 pa 74.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -844.990 -352.915 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/op..18UIFP Output file: /Exps/c201b/v1/1234/No0090/op.W.103.18UIFP simultaneous interpolator

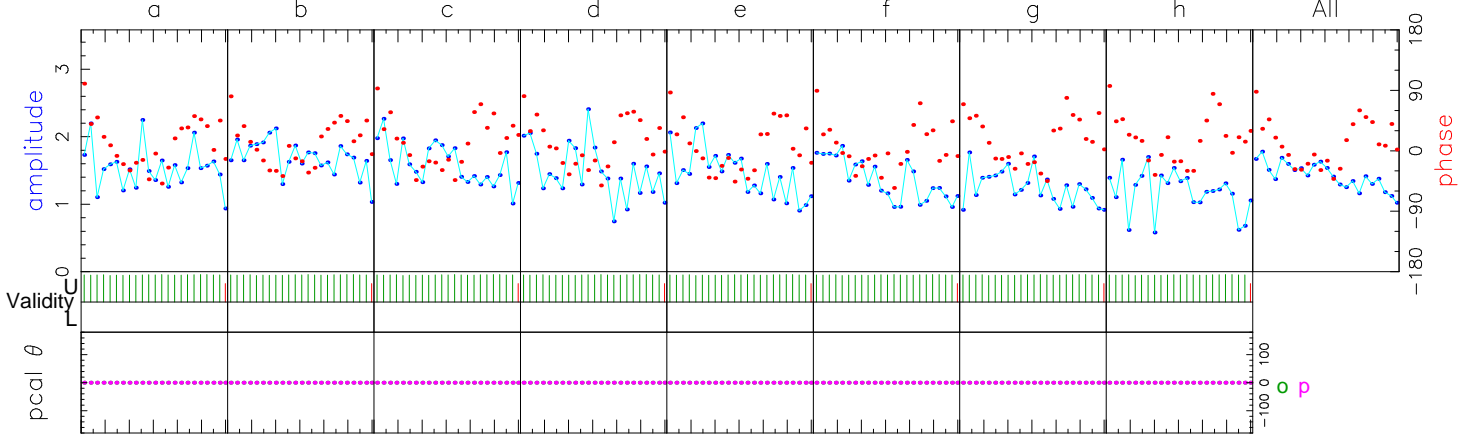


Fringe quality 6

SNR 61.5
 Int time 354.069
 Amp 1.195
 Phase 10.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.003486
 MBD 0.003417
 Fringe rate (Hz) -0.001962
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 140200.00
 Stop 140759.94
 FRT 140500.00
 Corr/FF/build
 2020:198:233535
 2020:199:150954
 2020:014:135814
 RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

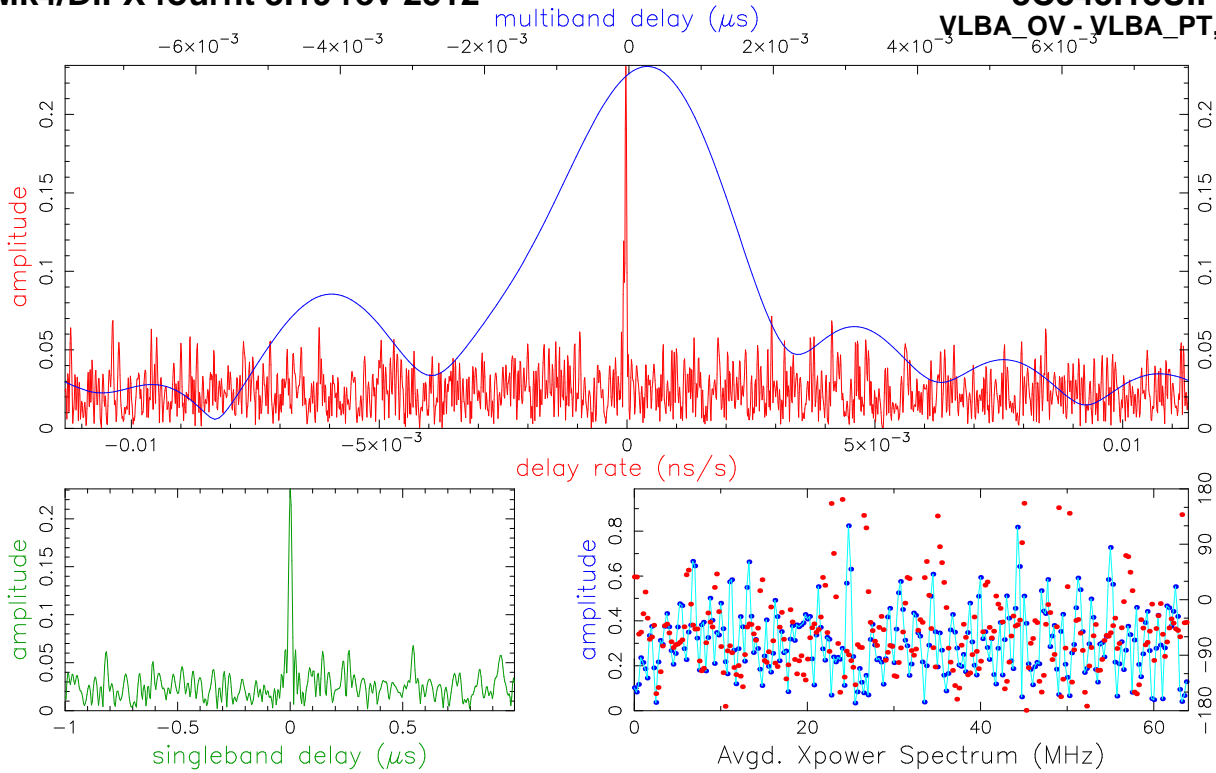


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.41630484602E+03		Apriori delay (usec)		2.41630142859E+03		Resid mbdelay (usec)		3.41743E-03	+/- 1.8E-05
Sband delay (usec)	2.41630491484E+03		Apriori clock (usec)		2.8075428E+00		Resid sbdelay (usec)		3.48625E-03	+/- 1.4E-04
Phase delay (usec)	2.41630142892E+03		Apriori clockrate (us/s)		-2.8865799E-09		Resid phdelay (usec)		3.29813E-07	+/- 6.0E-08
Delay rate (us/s)	1.11543083675E-01		Apriori rate (us/s)		1.11543106446E-01		Resid rate (us/s)		-2.27716E-08	+/- 2.9E-10
Total phase (deg)	31.5		Apriori accel (us/s/s)		-9.84718901107E-06		Resid phase (deg)		10.2	+/- 1.9

ph/seg (deg) 33.5 4.5 Search (2048X32) 1.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 25.0 7.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 4.9 2.6 Inc. seg. avg. 1.424 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.7 4.6 Inc. frq. avg. 1.195 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 291.5 el 46.6 pa 74.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -844.990 -352.915 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/op..18UIFP Output file: /Exps/c201b/v1/1234/No0090/op.W.118.18UIFP

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UIFP, No0090, op VLBA_OV - VLBA_PT, fgroup W, pol LR

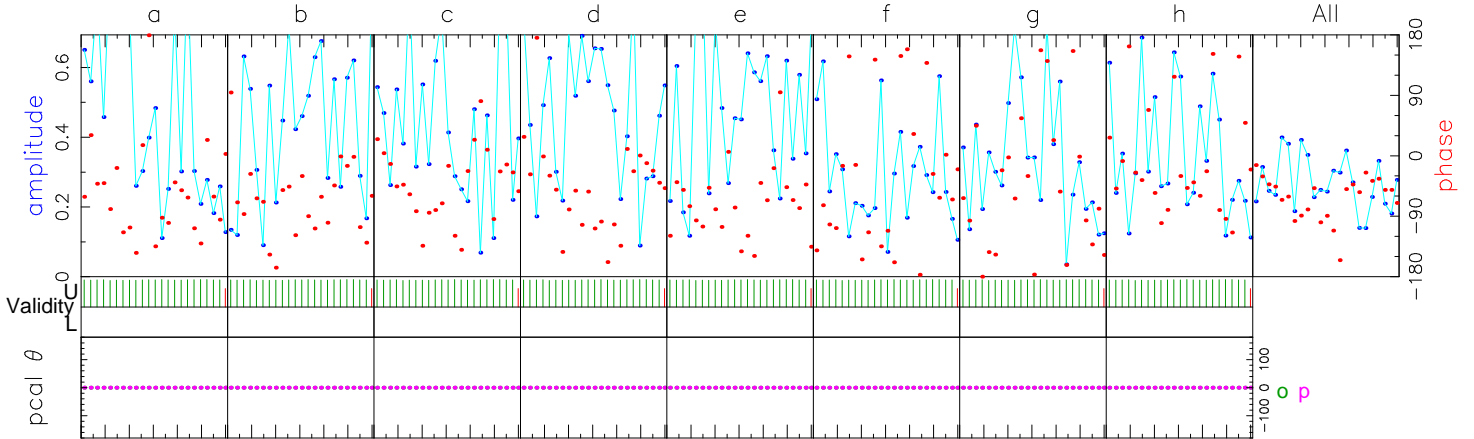


Fringe quality 9

SNR 11.9
 Int time 354.069
 Amp 0.231
 Phase -63.1
 PFD 6.1e-24
 Delays (us)
 SBD 0.000631
 MBD 0.000269
 Fringe rate (Hz)
 -0.001956
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

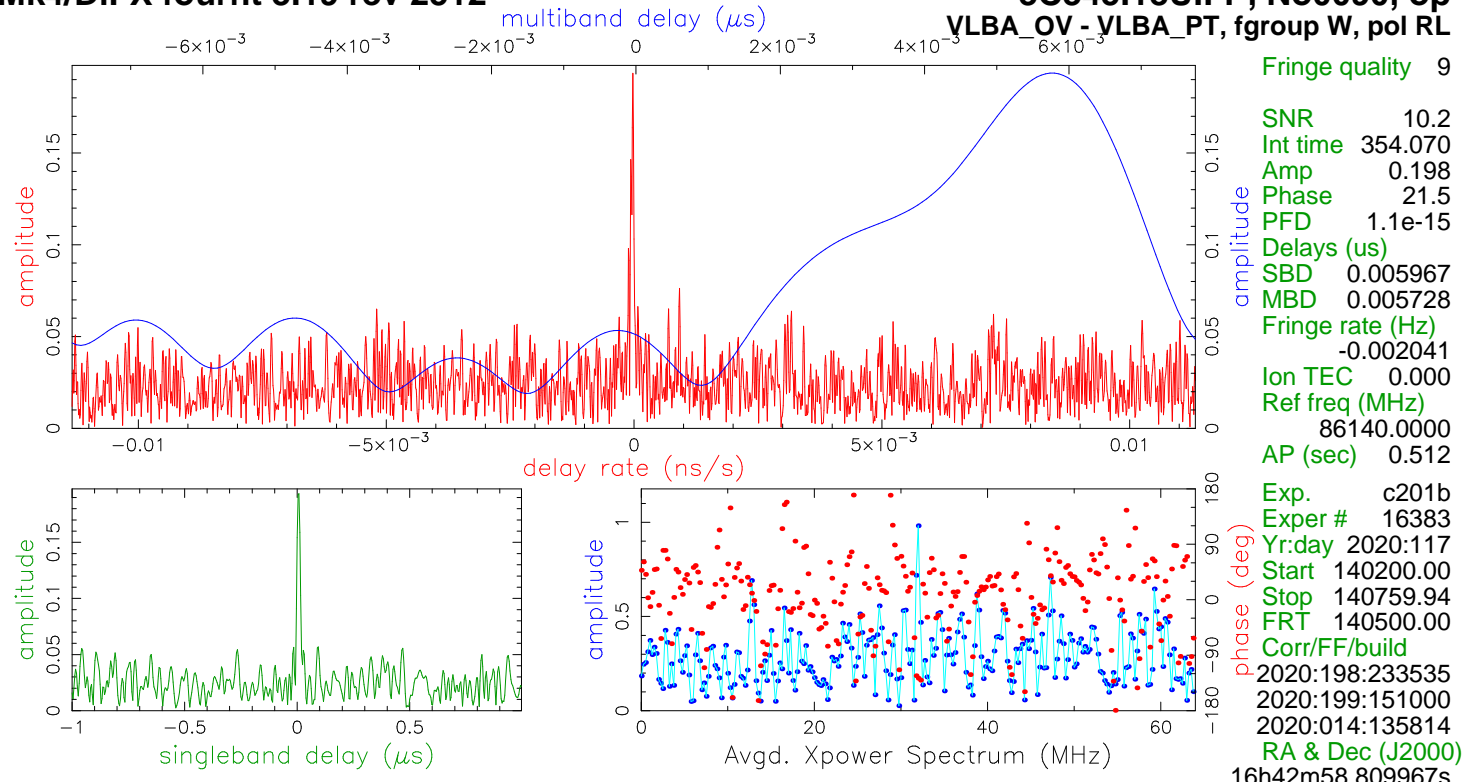
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 140200.00
 Stop 140759.94
 FRT 140500.00
 Corr/FF/build
 2020:198:233535
 2020:199:150957
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

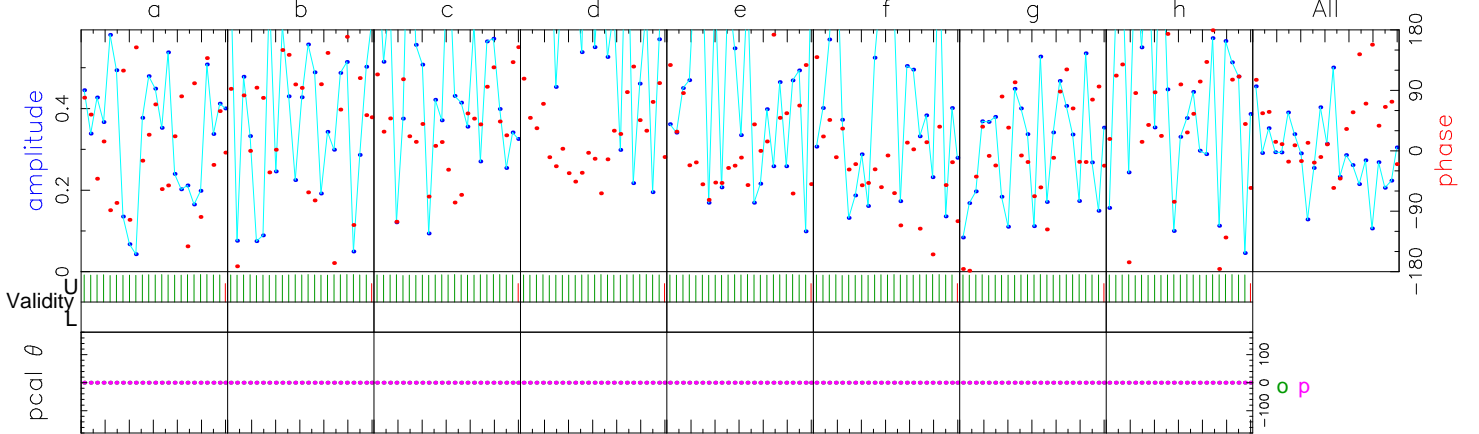


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.7	-64.5	-40.7	-56.2	-81.8	-113.6	-54.8	-35.2	Phase	-63.1
	0.3	0.3	0.3	0.3	0.4	0.1	0.1	0.1	Ampl.	0.2
	257.7	256.7	257.2	256.8	257.2	318.9	132.7	147.8	Sbd box	257.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.41630169808E+03		Apriori delay (usec)		2.41630142859E+03		Resid mbdelay (usec)		2.69489E-04	+/- 9.1E-05
Sband delay (usec)	2.41630205909E+03		Apriori clock (usec)		2.8075428E+00		Resid sbdelay (usec)		6.30500E-04	+/- 7.2E-04
Phase delay (usec)	2.41630142656E+03		Apriori clockrate (us/s)		-2.8865799E-09		Resid phdelay (usec)		-2.03505E-06	+/- 3.1E-07
Delay rate (us/s)	1.11543083738E-01		Apriori rate (us/s)		1.11543106446E-01		Resid rate (us/s)		-2.27086E-08	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-9.84718901107E-06		Resid phase (deg)		-63.1	+/- 9.6

ph/seg (deg) 32.1 23.1 Search (2048X32) 0.226 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.3 40.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.8 13.6 Inc. seg. avg. 0.248 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.9 23.8 Inc. frq. avg. 0.237 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 291.5 el 46.6 pa 74.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -844.990 -352.915 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/op..18UIFP Output file: /Exps/c201b/v1/1234/No0090/op.W.134.18UIFP

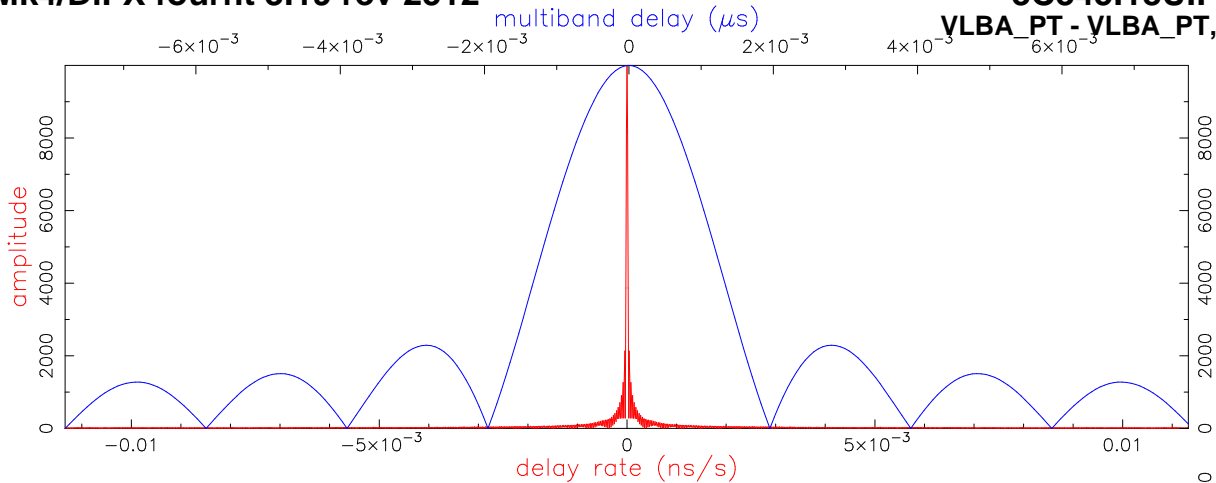


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

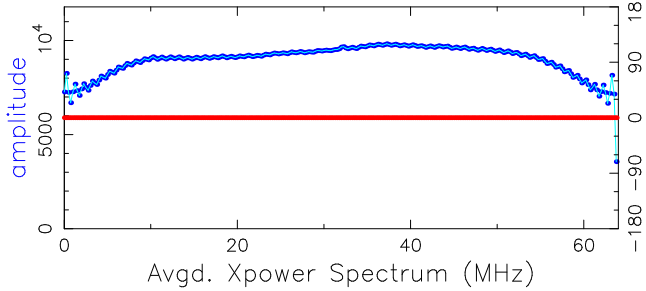
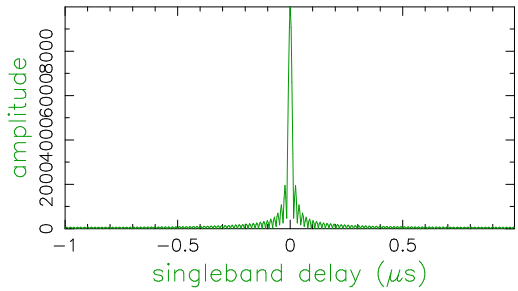


86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
0.3	86.6	41.2	17.2	-14.3	-12.8	15.7	90.3	Phase	21.5
0.1	0.1	0.3	0.4	0.3	0.3	0.1	0.2	Ampl.	0.2
235.6	255.4	257.9	257.6	258.5	259.2	82.6	259.3	Sbd box	258.5
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
o W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.41630715611E+03		Apriori delay (usec)	2.41630142859E+03	Resid mbdelay (usec)	5.72752E-03	+/-	1.1E-04	
Sband delay (usec)	2.41630739584E+03		Apriori clock (usec)	2.8075428E+00	Resid sbdelay (usec)	5.96725E-03	+/-	8.5E-04	
Phase delay (usec)	2.41630142929E+03		Apriori clockrate (us/s)	-2.8865799E-09	Resid phdelay (usec)	6.94651E-07	+/-	3.6E-07	
Delay rate (us/s)	1.11543082757E-01		Apriori rate (us/s)	1.11543106446E-01	Resid rate (us/s)	-2.36892E-08	+/-	1.7E-09	
Total phase (deg)		42.8	Apriori accel (us/s/s)	-9.84718901107E-06	Resid phase (deg)	21.5	+/-	11.3	

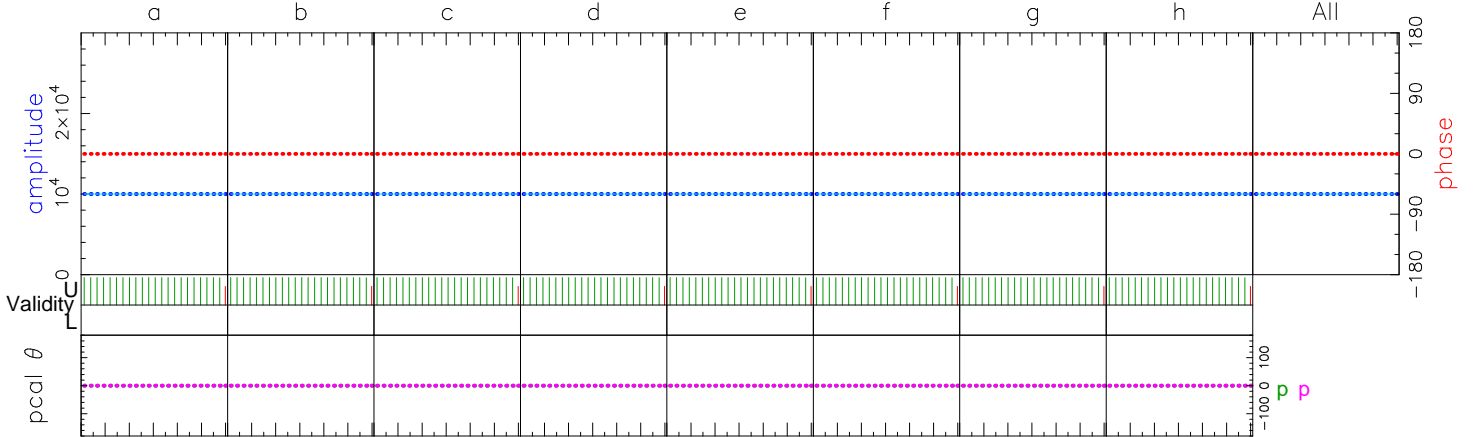
RMS Theor. Amplitude 0.198 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 55.2 27.0 Search (2048X32) 0.192 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 65.4 47.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.3 15.9 Inc. seg. avg. 0.261 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 53.3 27.8 Inc. frq. avg. 0.227 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 o: az 291.5 el 46.6 pa 74.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) -844.990 -352.915 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/op..18UIFP Output file: /Exps/c201b/v1/1234/No0090/op.W.144.18UIFP



Fringe quality 9
 SNR 518395.4
 Int time 359.358
 Amp 9999.996
 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. c201b
 Yr:day 16383
 Start 2020:117
 Stop 2020:198:233535
 FRT 2020:199:150953
 Corr/FF/build 2020:014:135814
 RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"



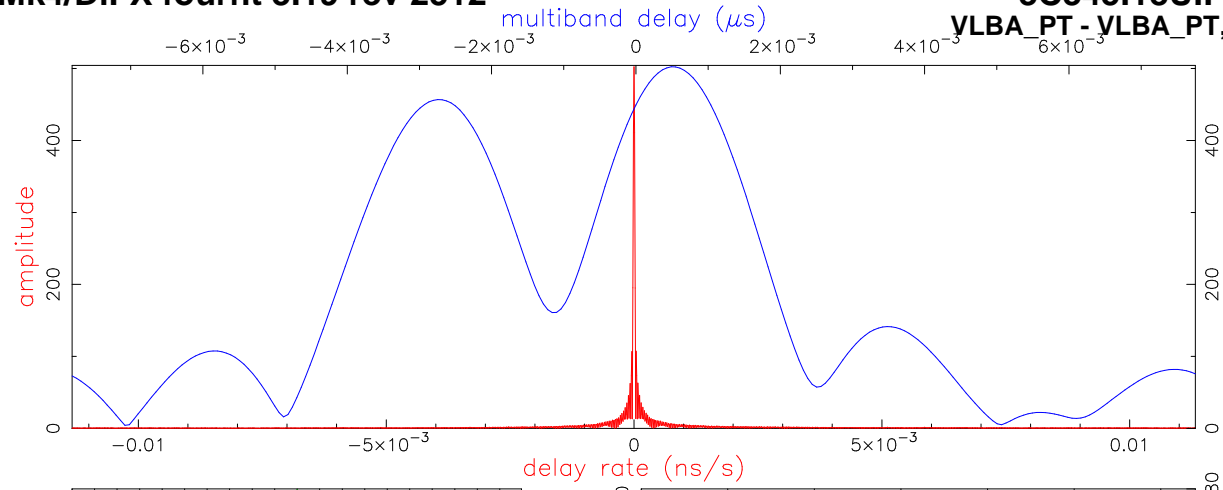
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-1.68837154493E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.68837E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

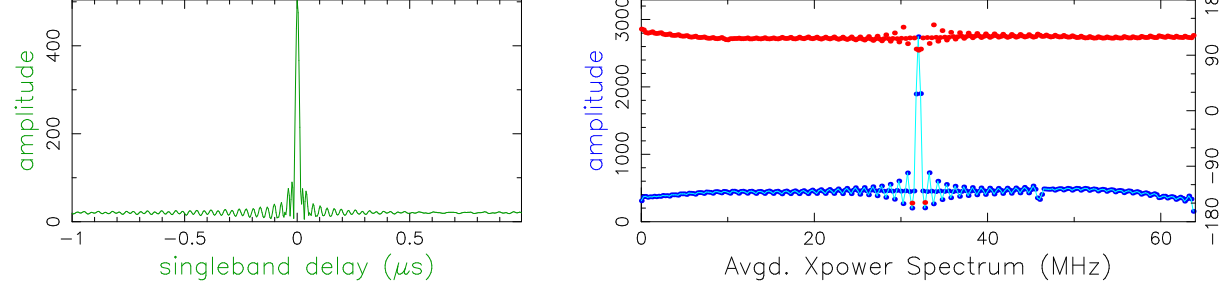
ph/seg (deg)	0.0	RMS	0.0	Theor.	0.0	Amplitude	9999.996 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0		0.0		0.0	Search (2048X32)	9999.996	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0		0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0		0.0		0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	9999.996	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



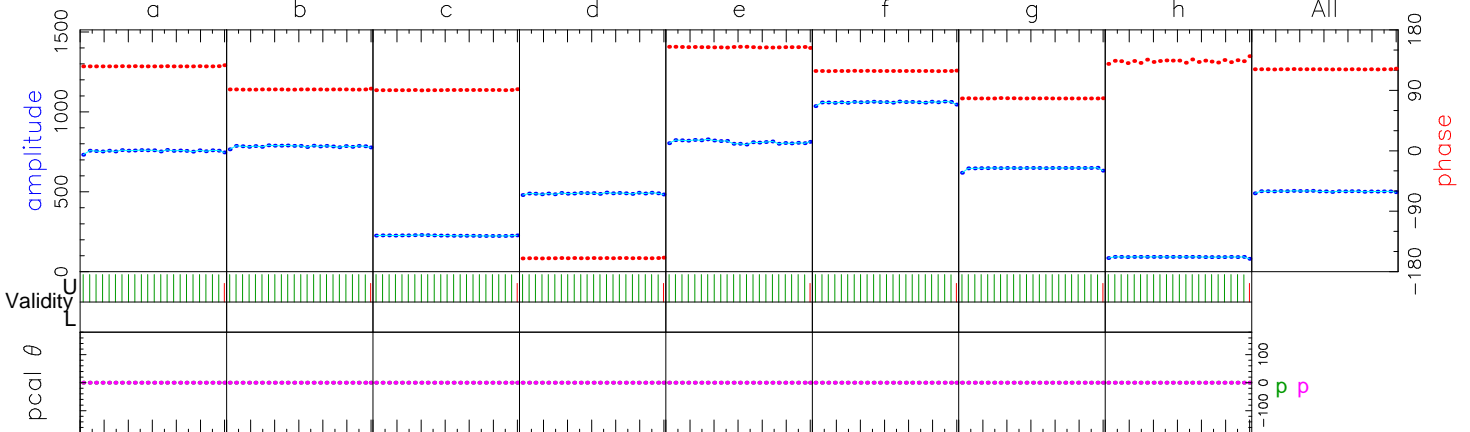
Fringe quality 5

SNR 26147.9
 Int time 359.358
 Amp 504.400
 Phase 121.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000787
 MBD 0.000536
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 140200.00
 Stop 140759.94
 FRT 140500.00
 Corr/FF/build
 2020:198:233535
 2020:199:150956
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"



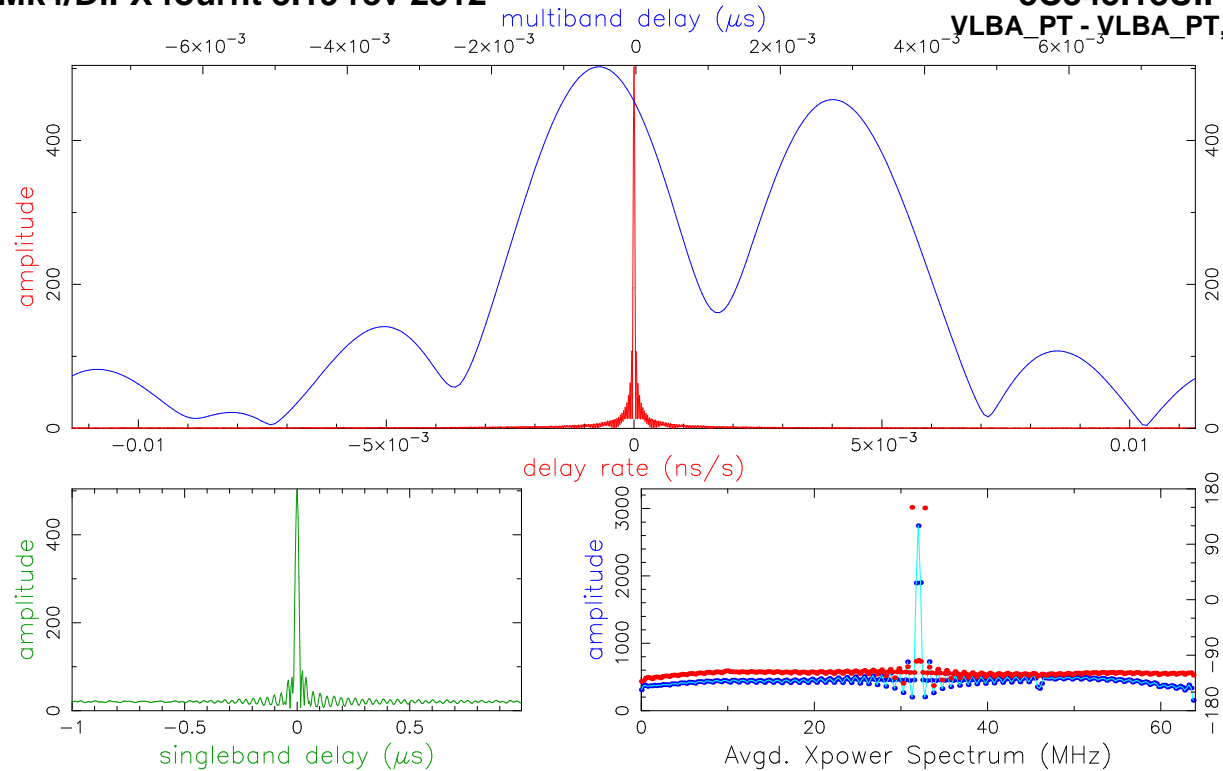
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	125.7	91.2	90.3	-159.8	154.2	118.8	78.0	133.3	Phase	121.3
	755.6	784.3	226.3	489.5	811.9	1059.0	646.8	91.9	Ampl.	608.2
	257.0	256.8	257.8	257.1	256.6	256.6	256.7	259.3	Sbd box	257.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.36062500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		5.36063E-04	+/- 4.2E-08
Sband delay (usec)	7.87000000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		7.87000E-04	+/- 3.3E-07
Phase delay (usec)	3.91079039671E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.91079E-06	+/- 1.4E-10
Delay rate (us/s)	-1.48797100113E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.48797E-11	+/- 6.8E-13
Total phase (deg)	121.3		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		121.3	+/- 0.0

ph/seg (deg) 0.2 0.0 Search (2048X32) 502.452 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.7 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.3 0.0 Inc. seg. avg. 502.490 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 63.1 0.0 Inc. frq. avg. 608.151 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 296.8 el 37.9 pa 73.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/pp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/pp.W.129.18UIFP

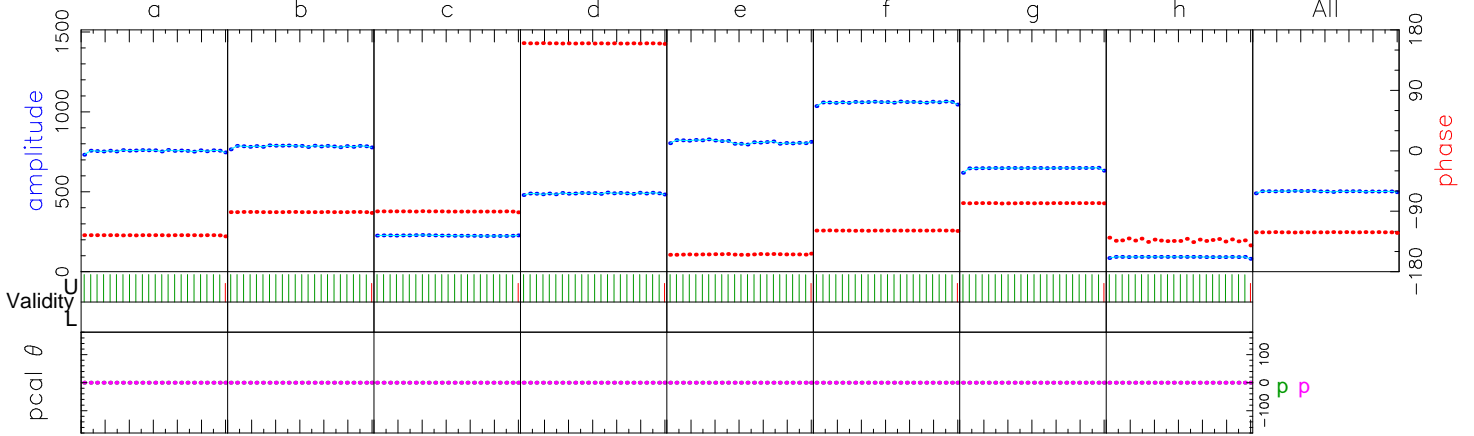


Fringe quality 5

SNR 26147.9
 Int time 359.358
 Amp 504.400
 Phase -121.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.000787
 MBD -0.000536
 Fringe rate (Hz) 0.000001
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

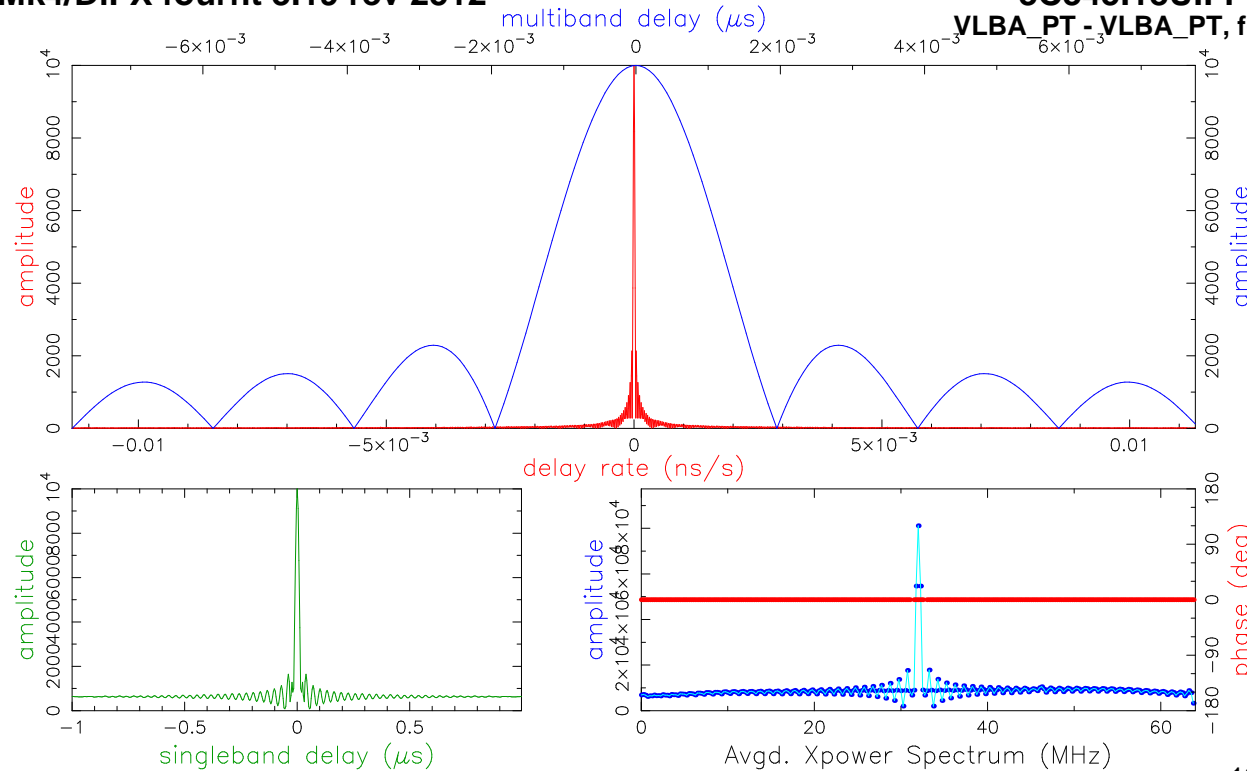
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 140200.00
 Stop 140759.94
 FRT 140500.00
 Corr/FF/build
 2020:198:233535
 2020:199:150959
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.7	-91.2	-90.3	159.8	-154.2	-118.8	-78.0	-133.3	Phase	-121.3
	755.6	784.3	226.3	489.5	811.9	1059.0	646.8	91.9	Ampl.	608.2
	257.0	257.2	256.2	256.9	257.4	257.4	257.3	254.7	Sbd box	256.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.36062500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-5.36063E-04	+/- 4.2E-08
Sband delay (usec)	-7.87000000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-7.87000E-04	+/- 3.3E-07
Phase delay (usec)	-3.91079039668E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.91079E-06	+/- 1.4E-10
Delay rate (us/s)	1.48797100113E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.48797E-11	+/- 6.8E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-121.3	+/- 0.0

ph/seg (deg) 0.2 0.0 Search (2048X32) 502.452 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.7 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.3 0.0 Inc. seg. avg. 502.491 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 63.1 0.0 Inc. frq. avg. 608.151 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 296.8 el 37.9 pa 73.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/pp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/pp.W.141.18UIFP

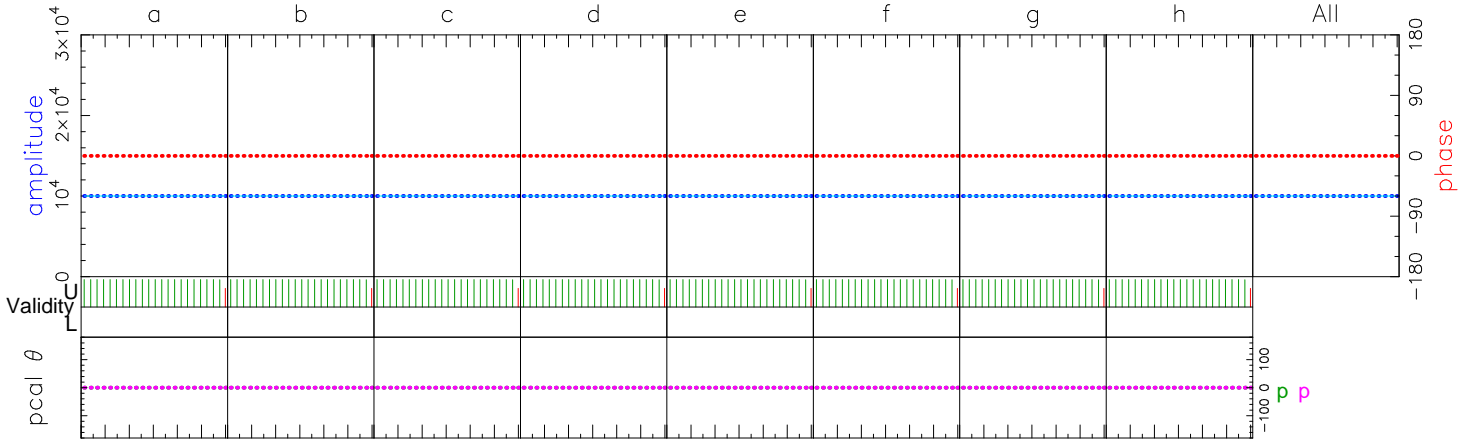


Fringe quality 9

SNR 518395.8
 Int time 359.358
 Amp 10000.000
 Phase -0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 140200.00
 Stop 140759.94
 FRT 140500.00
 Corr/FF/build 2020:198:233535
 2020:199:150949
 2020:014:135814
 RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.1E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08
 Phase delay (usec) -2.35890942007E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -2.35891E-19 +/- 7.1E-12
 Delay rate (us/s) 0.00000000000E+00 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.4E-14
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

p: az 296.8 el 37.9 pa 73.4 p: az 296.8 el 37.9 pa 73.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0090/pp..18UIFP Output file: /Exps/c201b/v1/1234/No0090/pp.W.97.18UIFP