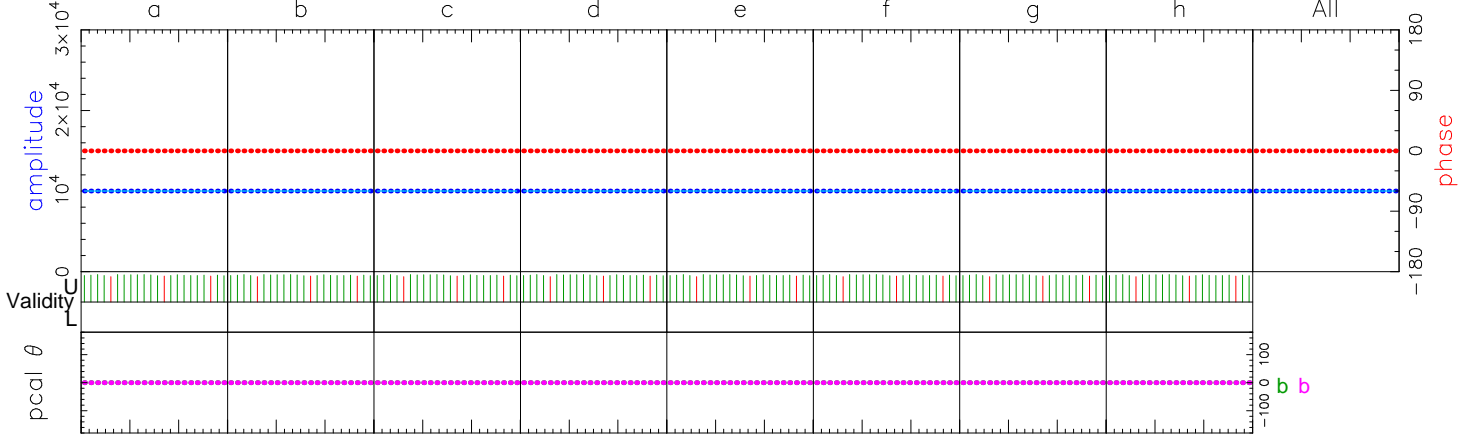


Fringe quality 9

SNR 361898.7
Int time 175.137
Amp 10000.005
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 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143631
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

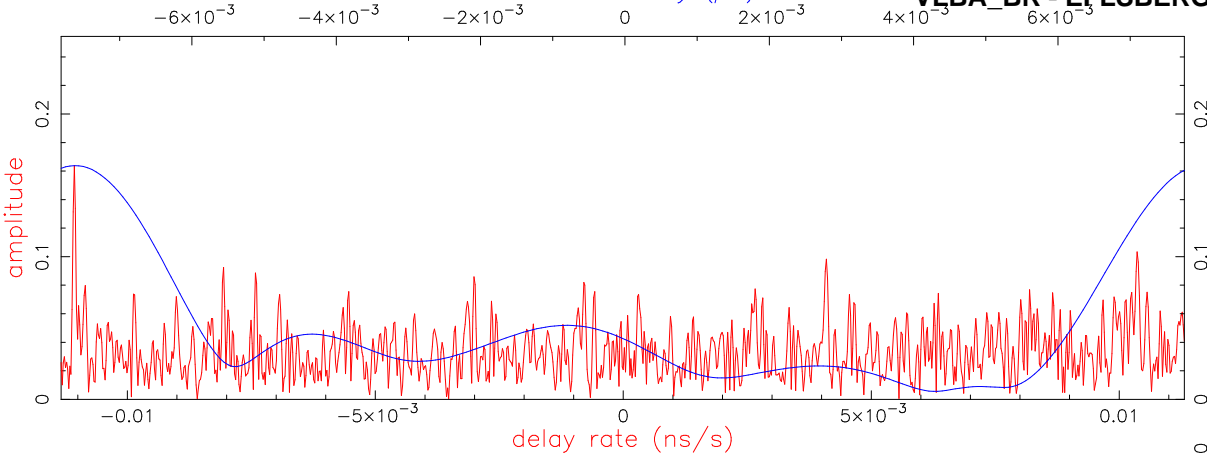


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
b	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	+/-	3.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.4E-08
Phase delay (usec)	5.35340195878E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.35340E-20	+/-	1.0E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.8E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

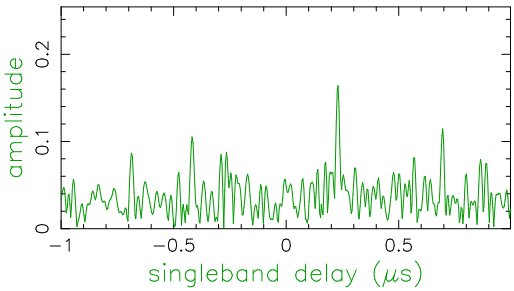
ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.004 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.004 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 74.4 el 33.0 pa -50.7 u,v (vr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bb..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bb.W.10.18UHRL

multiband delay (μs)

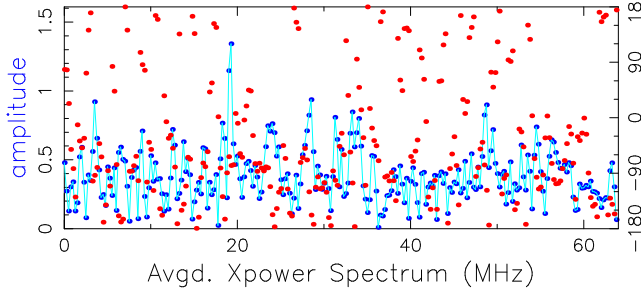


Fringe quality 0

SNR 6.0
 Int time 174.934
 Amp 0.254
 Phase 115.5
 PFD 2.5e-01
 Delays (us)
 SBD 0.229198
 MBD -0.007667
 Fringe rate (Hz)
 -0.955867
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

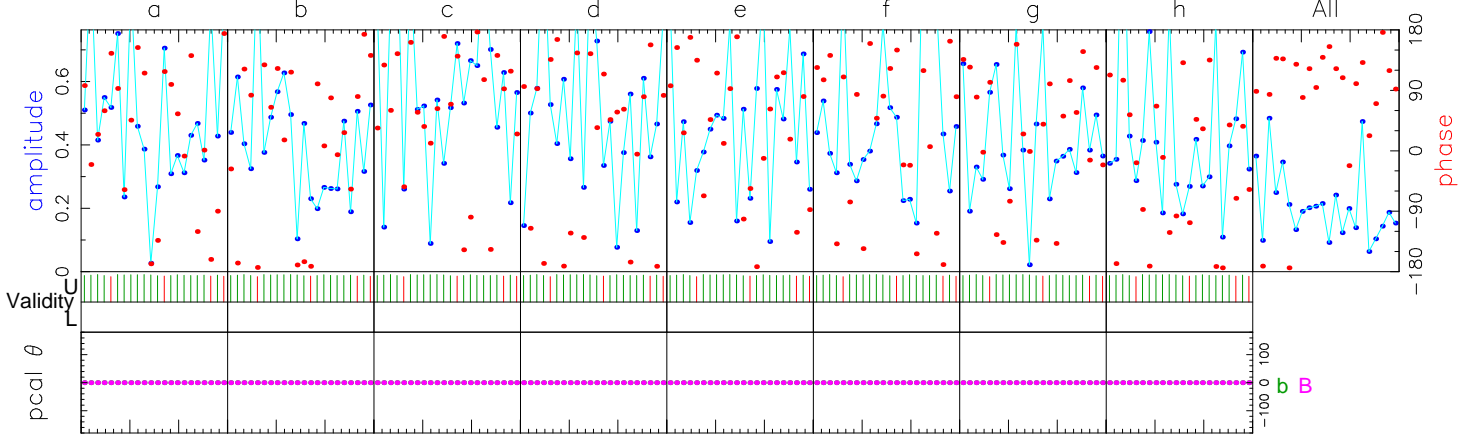


delay rate (ns/s)



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143628
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



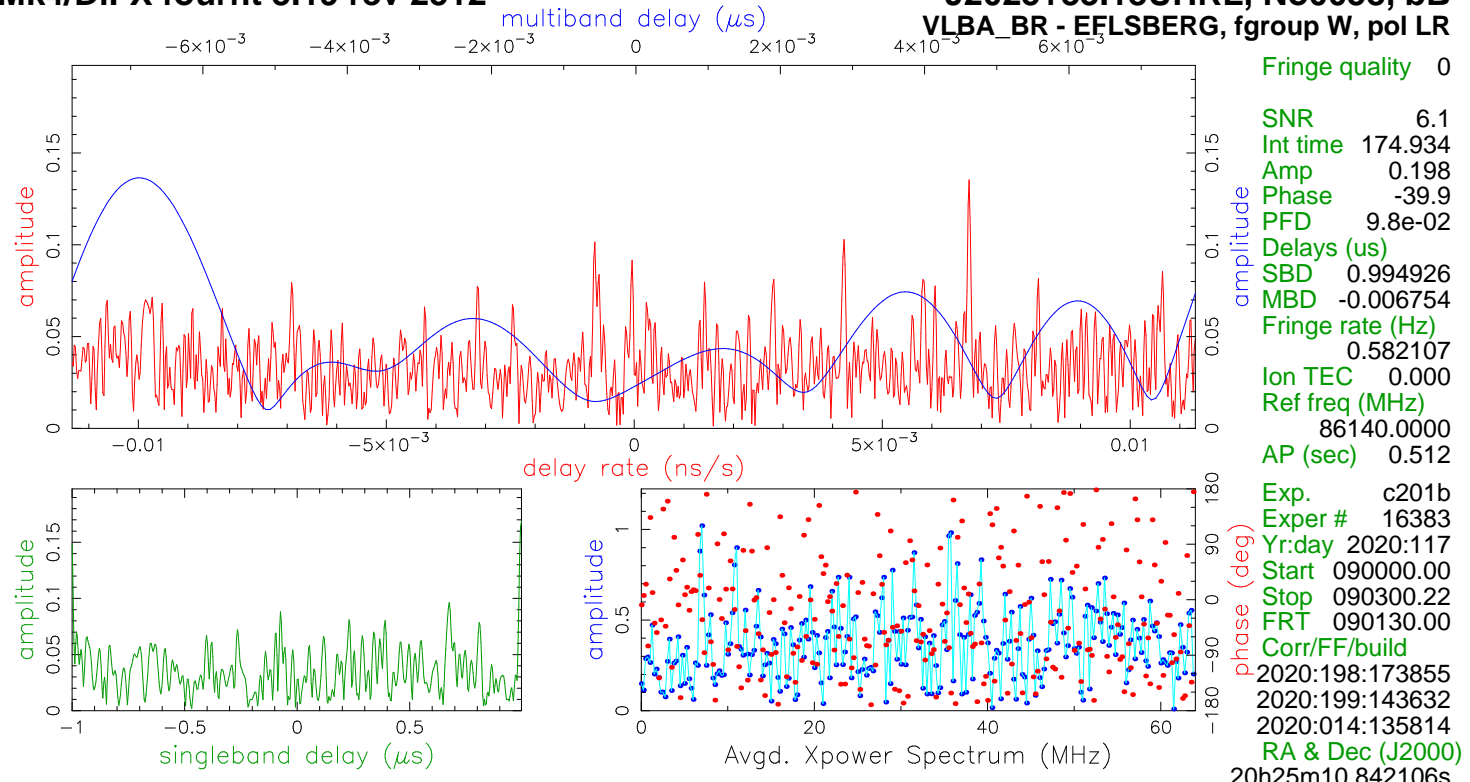
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.62327263091E+03	Apriori delay (usec)	-4.62349933929E+03	Resid mbdelay (usec)	-7.66663E-03	+/-	1.8E-04
Sband delay (usec)	-4.62327014104E+03	Apriori clock (usec)	-1.4457802E+01	Resid sbdelay (usec)	2.29198E-01	+/-	1.4E-03
Phase delay (usec)	-4.62349933557E+03	Apriori clockrate (us/s)	1.5800000E-07	Resid phdelay (usec)	3.72389E-06	+/-	6.2E-07
Delay rate (us/s)	1.47129823494E+00	Apriori rate (us/s)	1.47130933161E+00	Resid rate (us/s)	-1.10967E-05	+/-	5.9E-09
Total phase (deg)		Apriori accel (us/s/s)	2.27964470662E-05	Resid phase (deg)	115.5	+/-	19.2

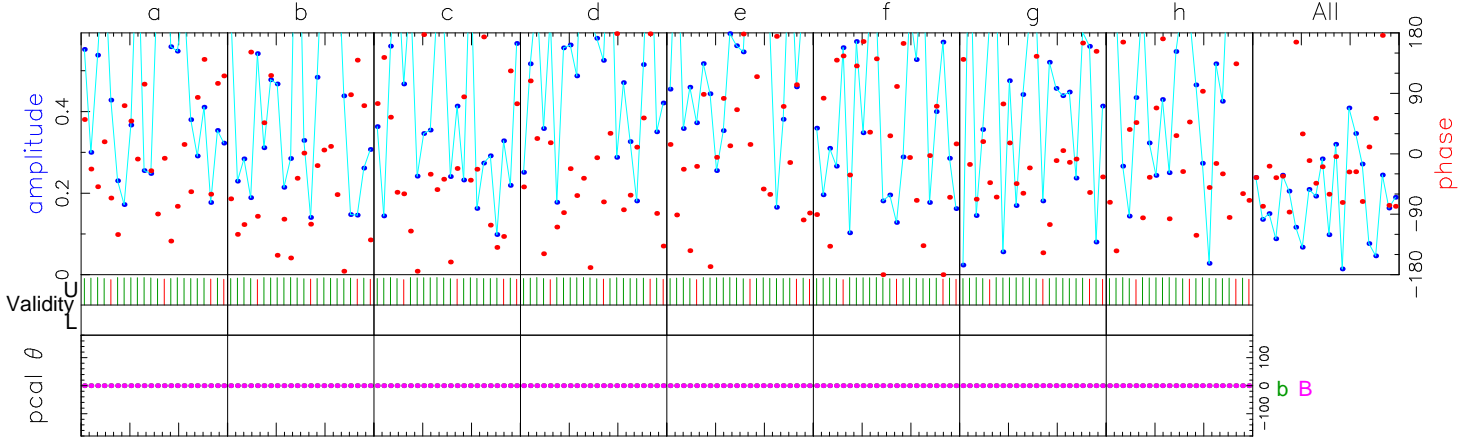
ph/seg (deg)	48.6	Theor.	44.9	Amplitude	0.254 +/- 0.043	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.1		78.4	Search (1024X32)	0.160	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	21.9		27.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	40.9		47.3	Inc. seg. avg.	0.248	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.239	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 74.4 el 33.0 pa -50.7 B: az 264.9 el 50.1 pa 49.5 u,v (fr/asec) -10120.610 1052.497 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bB..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bB.W.1.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-11.9	-50.4	-55.0	-44.0	-23.2	155.2	-33.6	-59.9	Phase	-39.9
	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2	Ampl.	0.2
	433.2	53.0	494.6	270.1	258.9	448.4	42.7	241.9	Sbd box	511.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-4.62250609299E+03	Apriori delay (usec)	-4.62349933929E+03	Resid mbdelay (usec)	-6.75370E-03	+/-	1.8E-04
Sband delay (usec)	-4.62250441304E+03	Apriori clock (usec)	-1.4457802E+01	Resid sbdelay (usec)	9.94926E-01	+/-	1.4E-03
Phase delay (usec)	-4.62349934058E+03	Apriori clockrate (us/s)	1.5800000E-07	Resid phdelay (usec)	-1.28562E-06	+/-	6.0E-07
Delay rate (us/s)	1.47131608930E+00	Apriori rate (us/s)	1.47130933161E+00	Resid rate (us/s)	6.75769E-06	+/-	5.8E-09
Total phase (deg)	-71.0	Apriori accel (us/s/s)	2.27964470662E-05	Resid phase (deg)	-39.9	+/-	18.6

ph/seg (deg)	57.5	Theor.	43.7	Amplitude	0.198 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	59.9		76.3	Search (1024X32)	0.166	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	69.6		26.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	26.5		46.0	Inc. seg. avg.	0.168	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.167	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

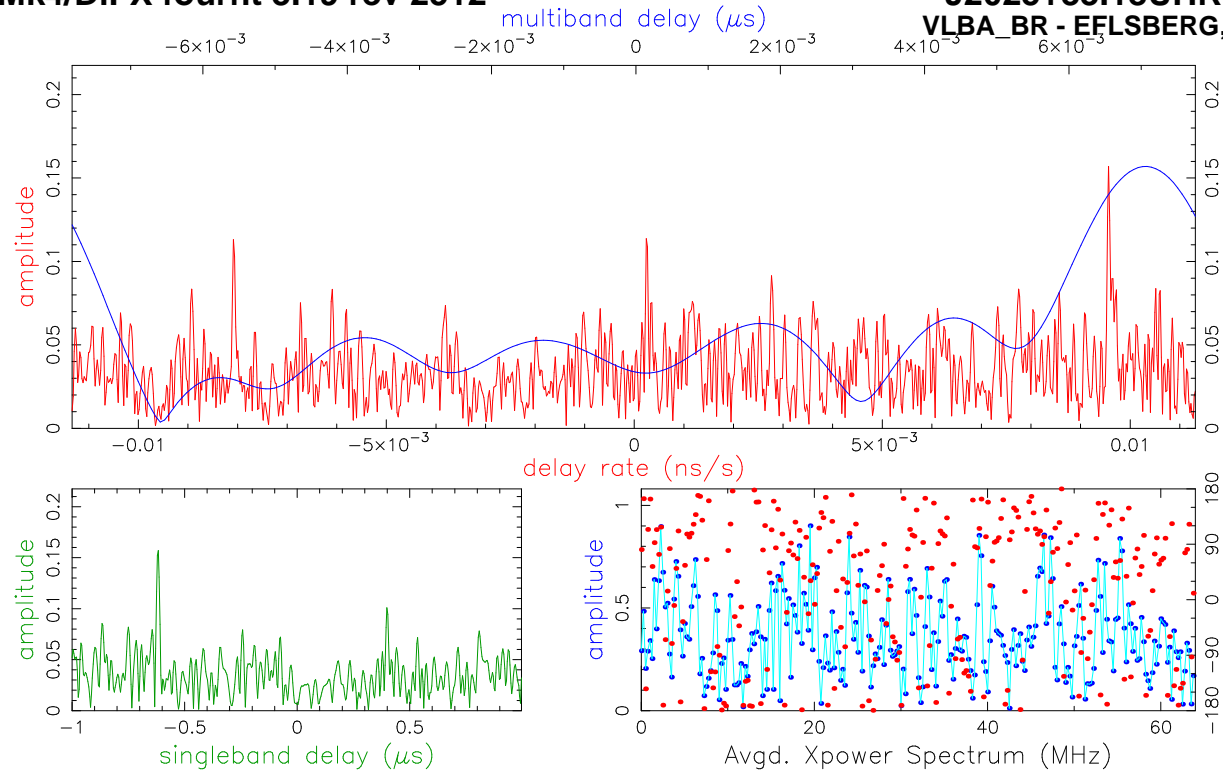
b: az 74.4 el 33.0 pa -50.7 B: az 264.9 el 50.1 pa 49.5 u,v (fr/asec) -10120.610 1052.497 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bB..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bB.W.12.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

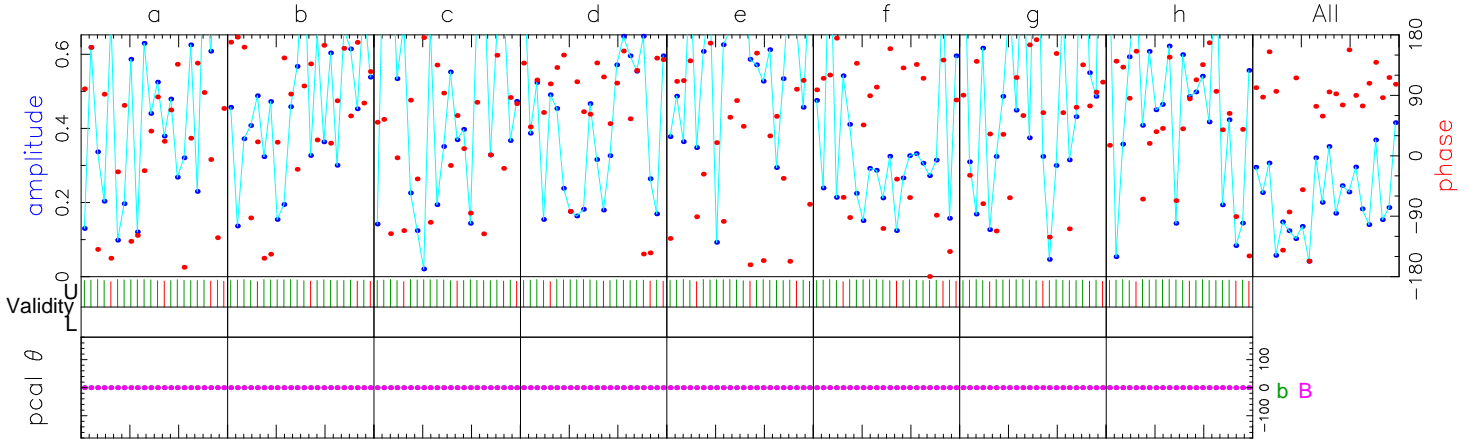
J2025+33.18UHRL, No0058, bB

VLBA_BR - EFLSBERG, fgroup W, pol RL



Fringe quality 0
 SNR 5.7
 Int time 174.933
 Amp 0.218
 Phase 104.8
 PFD 6.8e-01
 Delays (us)
 SBD -0.618551
 MBD 0.007051
 Fringe rate (Hz) 0.826134
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143634
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

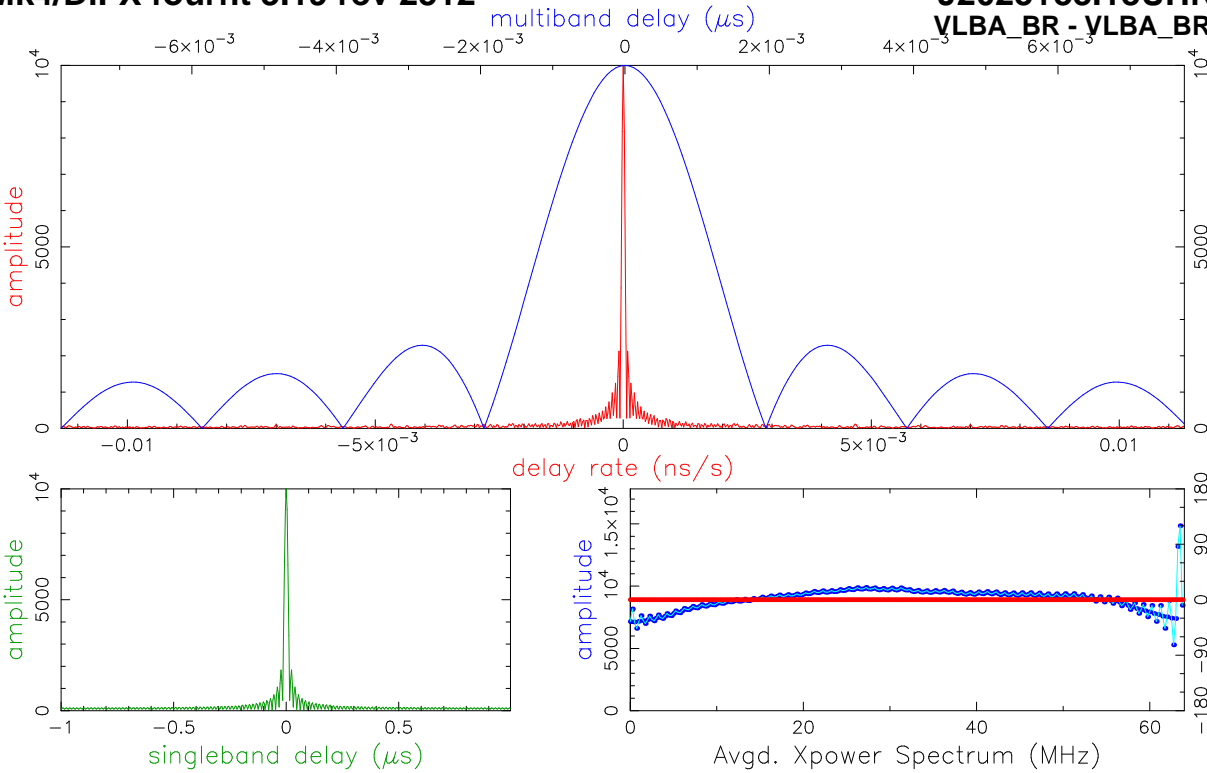


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.62411728795E+03		Apriori delay (usec)		-4.62349933929E+03		Resid mbdelay (usec)		7.05134E-03	+/- 1.9E-04
Sband delay (usec)	-4.62411789079E+03		Apriori clock (usec)		-1.4457802E+01		Resid sbdelay (usec)		-6.18551E-01	+/- 1.5E-03
Phase delay (usec)	-4.62349933591E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		3.38092E-06	+/- 6.4E-07
Delay rate (us/s)	1.47131892221E+00		Apriori rate (us/s)		1.47130933161E+00		Resid rate (us/s)		9.59060E-06	+/- 6.2E-09
Total phase (deg)	73.7		Apriori accel (us/s/s)		2.27964470662E-05		Resid phase (deg)		104.8	+/- 19.9

	RMS	Theor.	Amplitude	0.218 +/- 0.038	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	64.1	46.8	Search (1024X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	71.2	81.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	42.9	28.2	Inc. seg. avg.	0.219	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	43.6	49.2	Inc. frq. avg.	0.213	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 74.4 el 33.0 pa -50.7 B: az 264.9 el 50.1 pa 49.5 u,v (fr/asec) -10120.610 1052.497 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bB..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bB.W.19.18UHRL

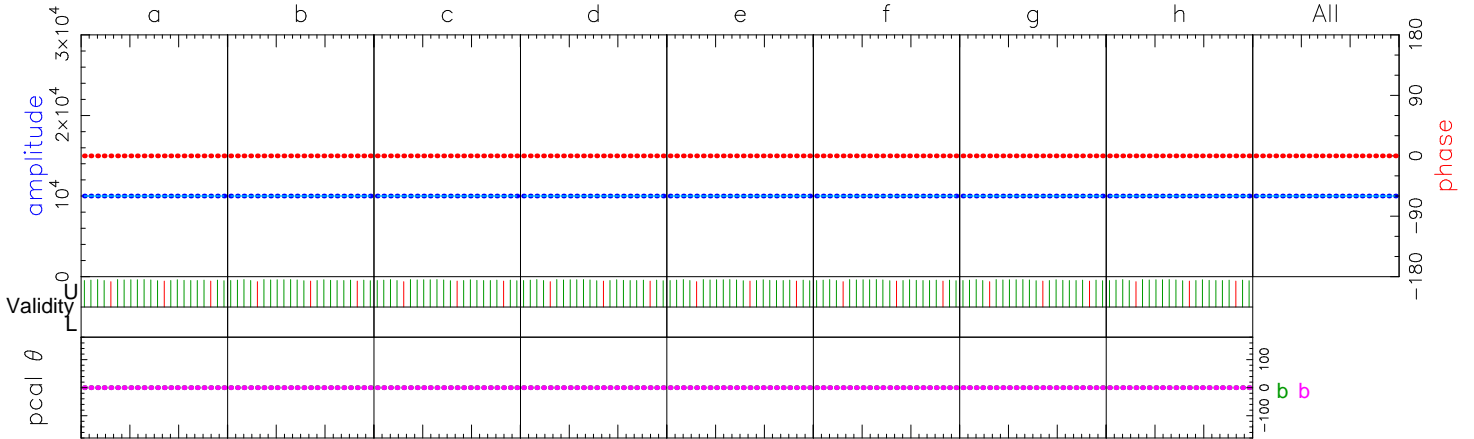


Fringe quality 9

SNR 361899.7
Int time 175.138
Amp 10000.008
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 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143628
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

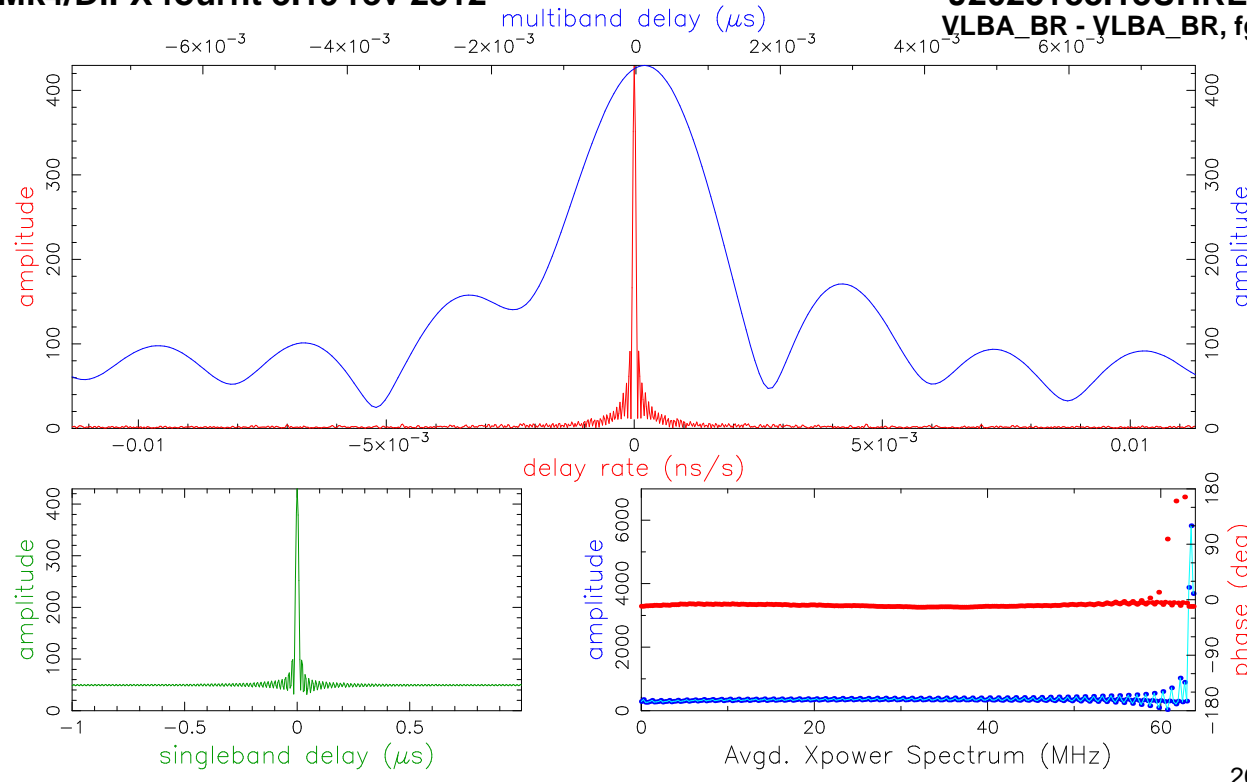


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	10000.0	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
b	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
b	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
b	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 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.4E-08
 Phase delay (usec) 2.79682321420E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.79682E-20 +/- 1.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.8E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.009 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.008 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. 10000.008 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 74.4 el 33.0 pa -50.7 b: az 74.4 el 33.0 pa -50.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bb..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bb.W.2.18UHRL

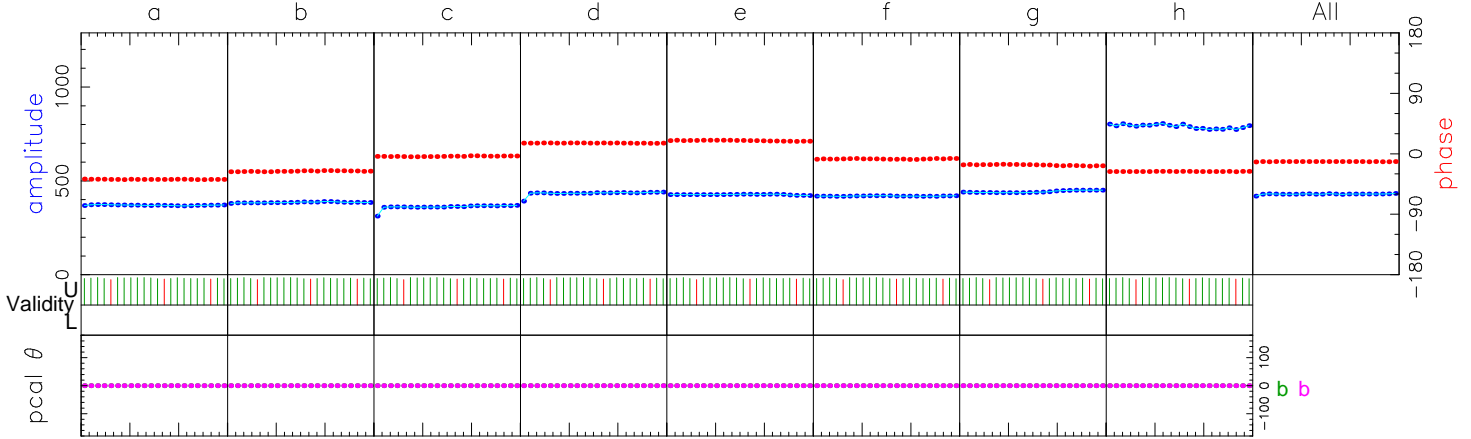


Fringe quality 7

SNR 15546.4
Int time 175.138
Amp 429.577
Phase -11.6
PFD 0.0e+00
Delays (us)
SBD -0.000099
MBD 0.000116
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 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143640
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.1	-25.9	-3.7	15.9	19.5	-7.7	-16.7	-26.3	Phase	-11.6
	370.4	385.3	361.4	434.1	426.9	419.2	442.5	790.3	Ampl.	453.8
	257.0	257.1	257.3	257.2	256.8	256.8	256.9	257.2	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 1.16406250000E-04 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.16406E-04 +/- 7.0E-08
 Sband delay (usec) -9.85000000000E-05 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -9.85000E-05 +/- 5.5E-07
 Phase delay (usec) -3.75062176861E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -3.75062E-07 +/- 2.4E-10
 Delay rate (us/s) -1.55882676309E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -1.55883E-11 +/- 2.3E-12
 Total phase (deg) -11.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -11.6 +/- 0.0

RMS Theor. Amplitude 429.577 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (1024X32) 426.926 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 22.2 0.0 Inc. seg. avg. 429.547 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 30.9 0.0 Inc. frq. avg. 453.761 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

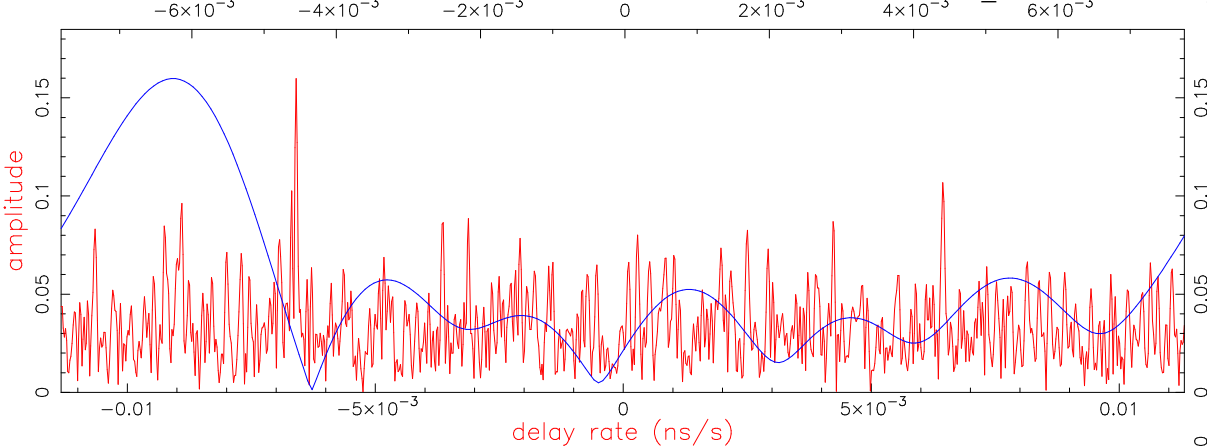
b: az 74.4 el 33.0 pa -50.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bb..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bb.W.44.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bB

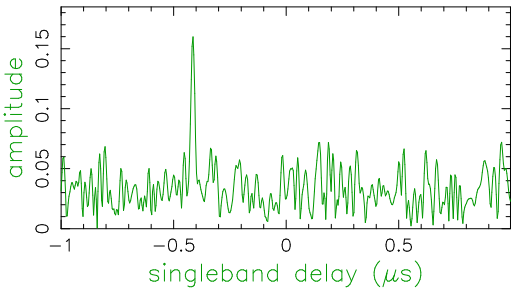
VLBA_BR - EFLSBERG, fgroup W, pol RR

multiband delay (μ s)

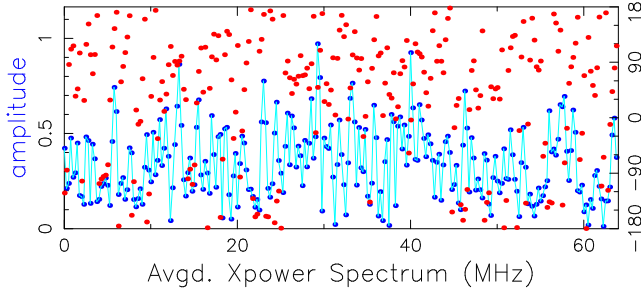


Fringe quality 0

SNR 5.8
 Int time 174.933
 Amp 0.185
 Phase 73.4
 PFD 5.8e-01
 Delays (us)
 SBD -0.414703
 MBD -0.006252
 Fringe rate (Hz)
 -0.568556
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

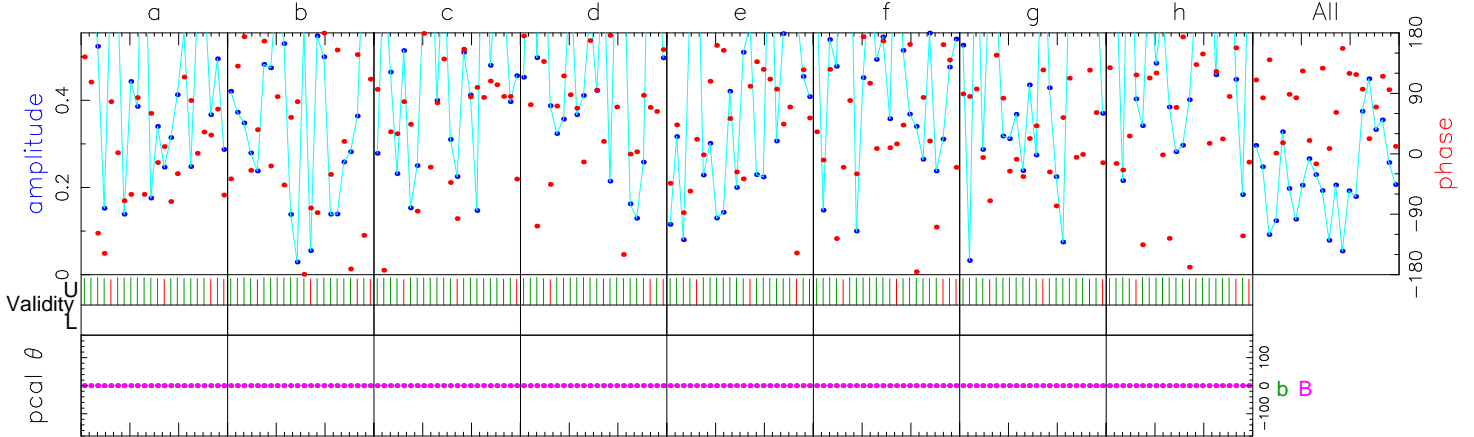


delay rate (ns/s)



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143630
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

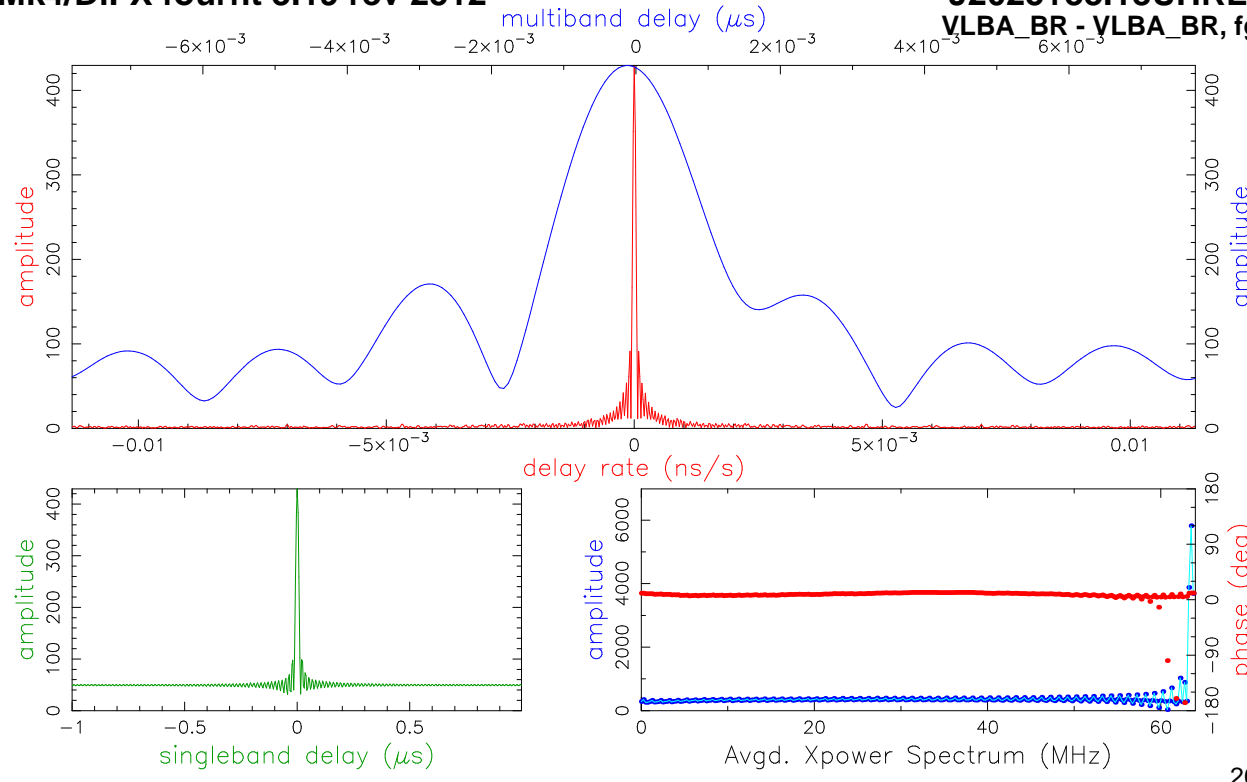
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.62391184109E+03									
Sband delay (usec)	-4.62391404204E+03									
Phase delay (usec)	-4.62349933692E+03									
Delay rate (us/s)	1.47130273124E+00									
Total phase (deg)			42.3							
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)									73.4	+/- 19.8
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_coherence:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

b: az 74.4 el 33.0 pa -50.7 B: az 264.9 el 50.1 pa 49.5 u,v (fr/asec) -10120.610 1052.497 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bB..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bB.W.6.18UHRL

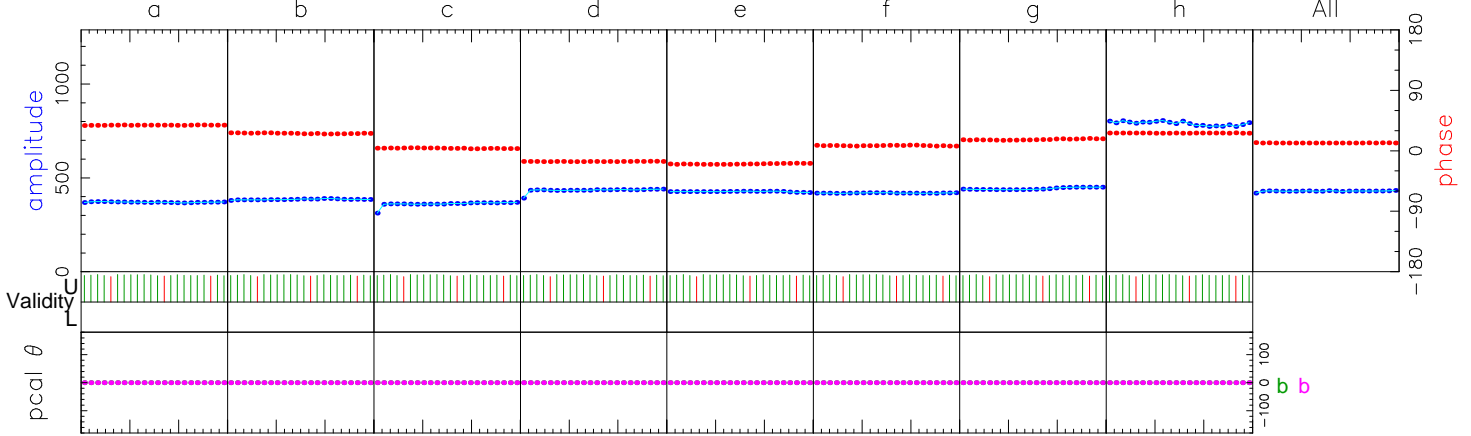


Fringe quality 7

SNR 15546.4
Int time 175.137
Amp 429.579
Phase 11.6
PFD 0.0e+00
Delays (us)
SBD 0.000099
MBD -0.000116
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 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143649
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

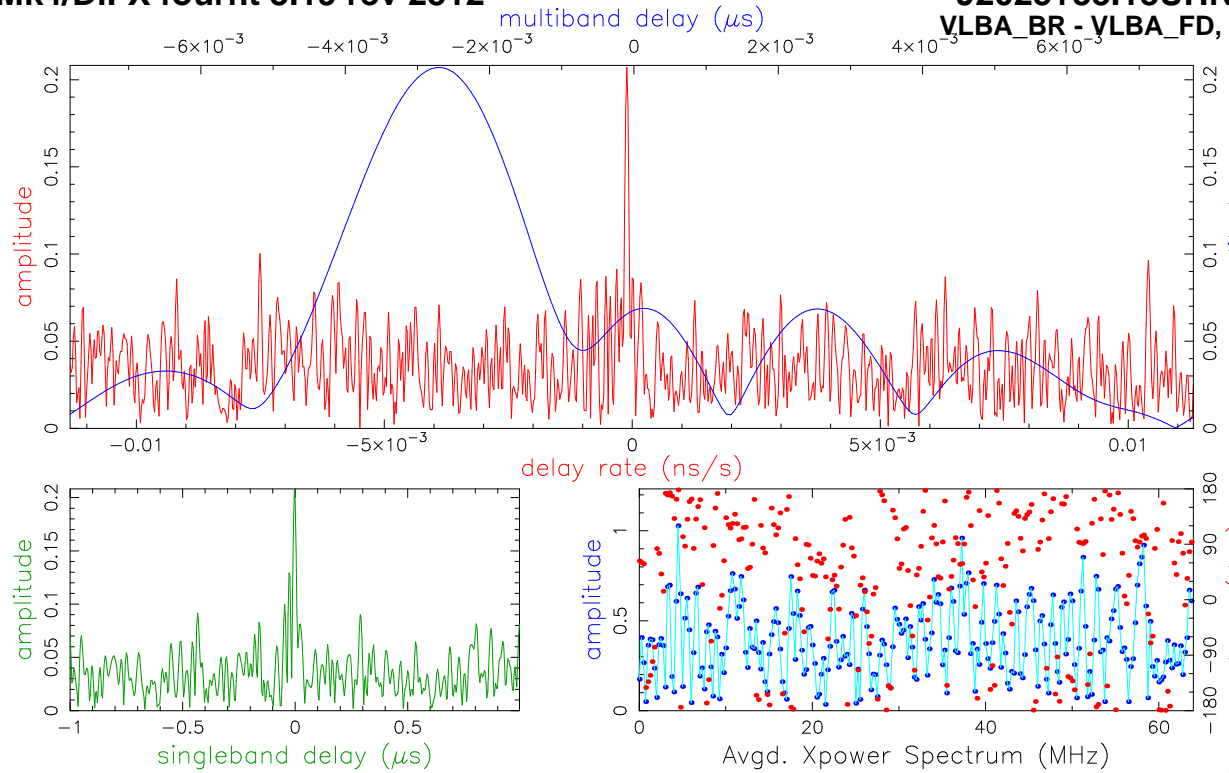


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	38.1	25.9	3.7	-15.9	-19.5	7.7	16.7	26.3	Phase	11.6
	370.4	385.3	361.4	434.1	426.9	419.2	442.5	790.3	Ampl.	453.8
	257.0	256.9	256.7	256.8	257.2	257.2	257.1	256.8	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.16406250000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.16406E-04	+/- 7.0E-08
Sband delay (usec)	9.85000000000E-05		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		9.85000E-05	+/- 5.5E-07
Phase delay (usec)	3.75062176771E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.75062E-07	+/- 2.4E-10
Delay rate (us/s)	1.55882676309E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.55883E-11	+/- 2.3E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		11.6	+/- 0.0

ph/seg (deg) 0.2 0.0 Theor. Amplitude 429.579 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.6 0.0 Search (1024X32) 426.928 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.2 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.9 0.0 Inc. seg. avg. 429.549 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 453.763 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 74.4 el 33.0 pa -50.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bb..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bb.W.82.18UHRL

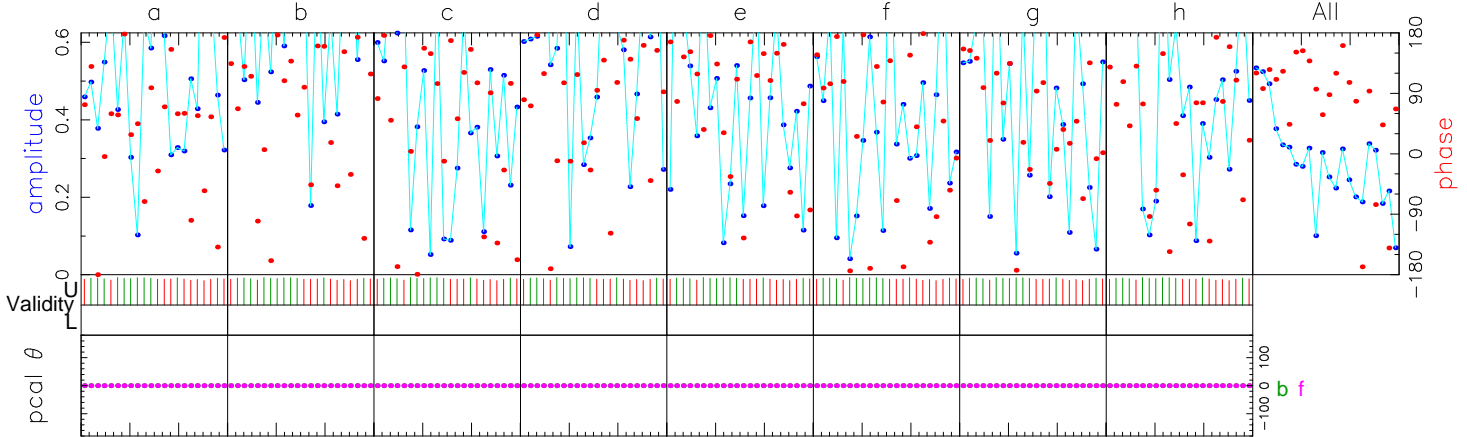


Fringe quality 9

SNR 7.5
Int time 171.617
Amp 0.208
Phase 113.9
PFD 1.4e-05
Delays (us)
SBD -0.003006
MBD -0.002673
Fringe rate (Hz)
-0.008747
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

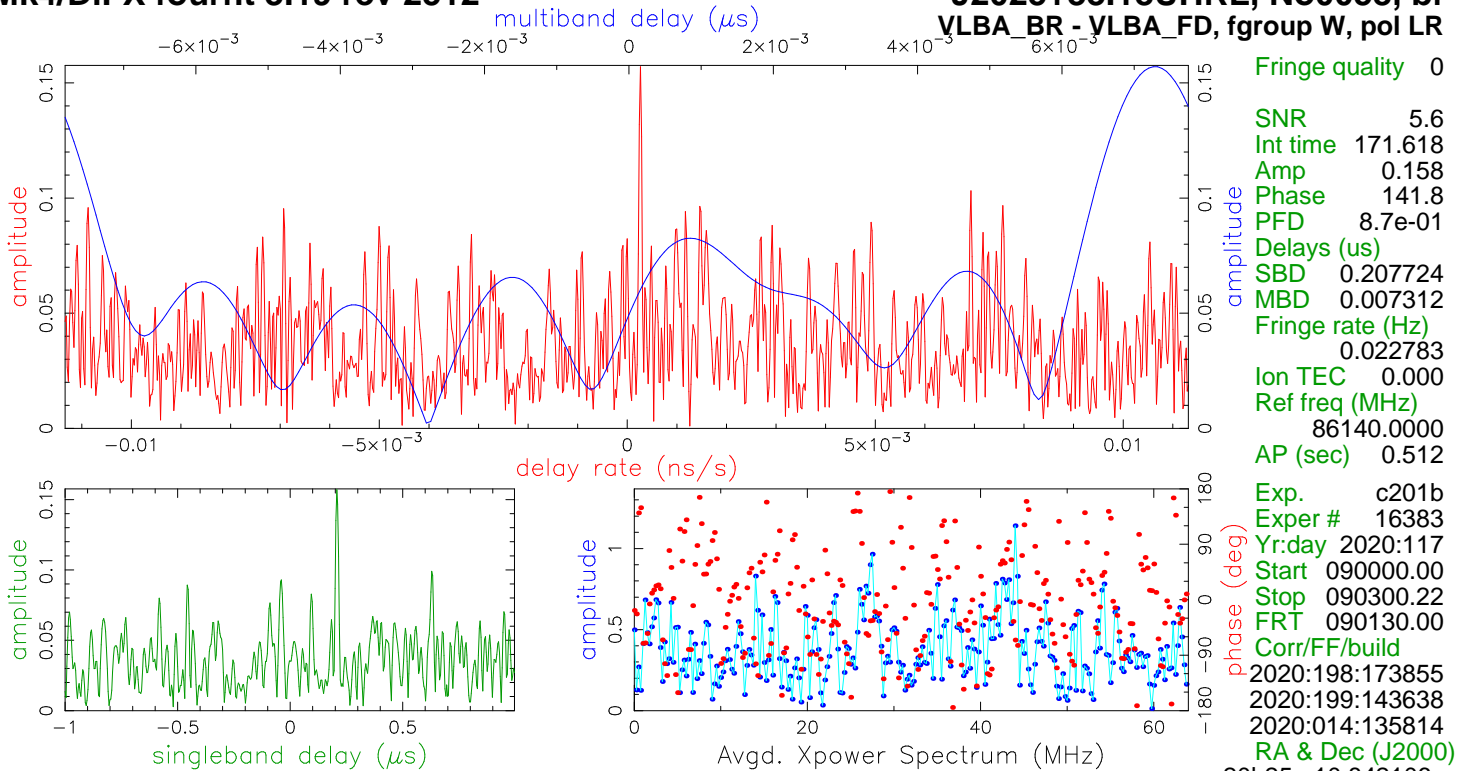
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143632
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

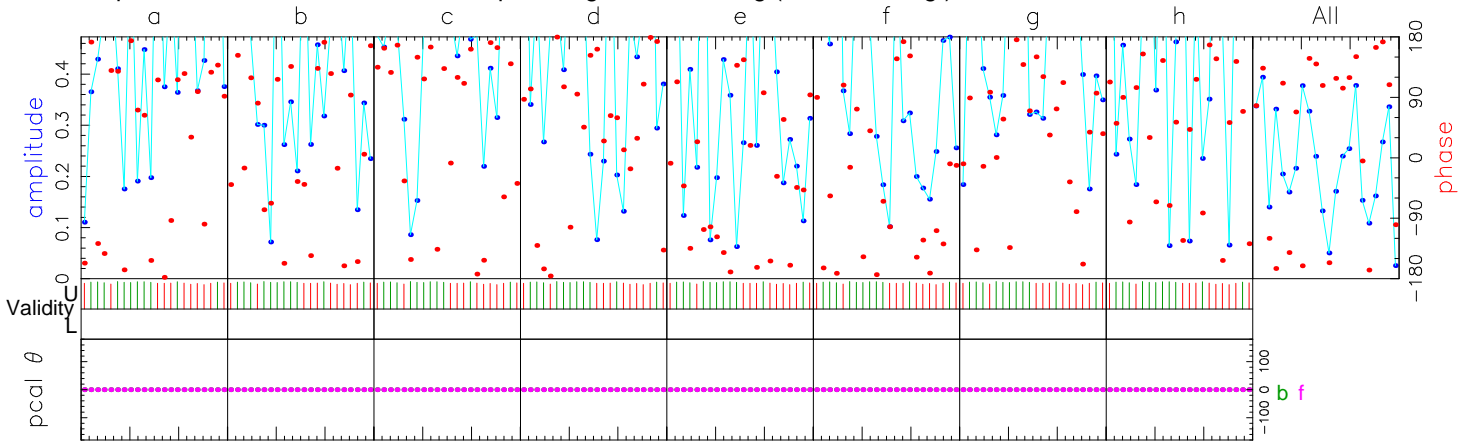


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.92908761642E+03				-1.92908494339E+03				Resid mbdelay (usec)	-2.67303E-03 +/- 1.5E-04
Sband delay (usec)	-1.92908794939E+03				-5.3082142E+00				Resid sbdelay (usec)	-3.00600E-03 +/- 1.2E-03
Phase delay (usec)	-1.92908493972E+03				-1.5100001E-07				Resid phdelay (usec)	3.67379E-06 +/- 5.0E-07
Delay rate (us/s)	-1.27681006193E-01				-1.27680904654E-01				Resid rate (us/s)	-1.01539E-07 +/- 4.8E-09
Total phase (deg)		105.3			2.49710314581E-05				Resid phase (deg)	113.9 +/- 15.4

ph/seg (deg) 56.0 36.0 Amplitude 0.208 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.9 62.9 Search (1024X32) 0.199 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.2 21.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.5 37.9 Inc. seg. avg. 0.246 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 74.4 el 33.0 pa -50.7 f: az 69.5 el 39.4 pa -75.8 u,v (fr/asec) 900.695 3037.579 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bf..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bf.W.14.18UHRL

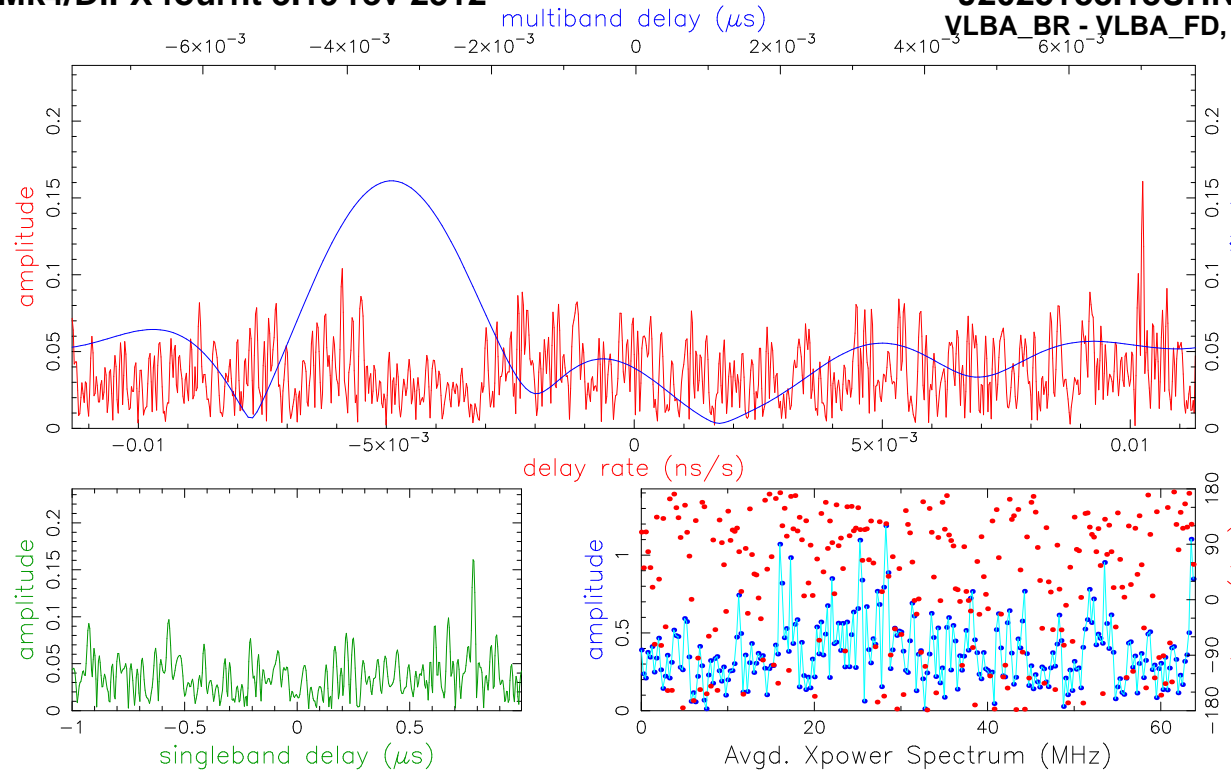


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
139.5	122.5	155.2	122.5	-142.0	-178.3	106.3	134.4	134.4	Phase	141.8
0.3	0.1	0.3	0.2	0.0	0.1	0.1	0.2	0.2	Ampl.	0.2
309.8	173.3	445.7	379.2	98.6	282.4	424.3	139.9	139.9	Sbd box	310.2
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f 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	PC phase	
b:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
f W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.92887450595E+03		Apriori delay (usec)	-1.92908494339E+03	Resid mbdelay (usec)	7.31244E-03	+/-	1.9E-04		
Sband delay (usec)	-1.92887721914E+03		Apriori clock (usec)	-5.3082142E+00	Resid sbdelay (usec)	2.07724E-01	+/-	1.5E-03		
Phase delay (usec)	-1.92908493882E+03		Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	4.57260E-06	+/-	6.5E-07		
Delay rate (us/s)	-1.27680640165E-01		Apriori rate (us/s)	-1.27680904654E-01	Resid rate (us/s)	2.64489E-07	+/-	6.3E-09		
Total phase (deg)		133.2	Apriori accel (us/s/s)	2.49710314581E-05	Resid phase (deg)	141.8	+/-	20.3		

ph/seg (deg) 60.3 47.6 Search (1024X32) 0.156 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 80.3 83.1 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 28.7 Inc. seg. avg. 0.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 55.0 50.1 Inc. frq. avg. 0.153 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 74.4 el 33.0 pa -50.7 f: az 69.5 el 39.4 pa -75.8 u,v (fr/asec) 900.695 3037.579 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bf..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bf.W.33.18UHRL

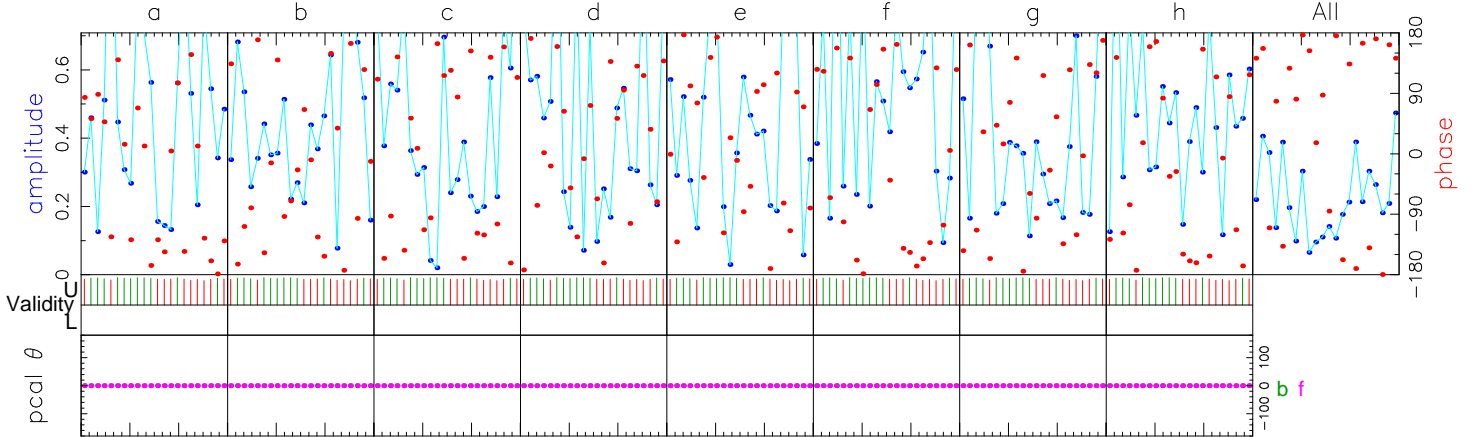


Fringe quality 0

SNR 5.9
Int time 171.618
Amp 0.236
Phase 172.8
PFD 4.0e-01
Delays (us)
SBD 0.783050
MBD -0.003306
Fringe rate (Hz)
0.883981
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143640
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	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		
b:f	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

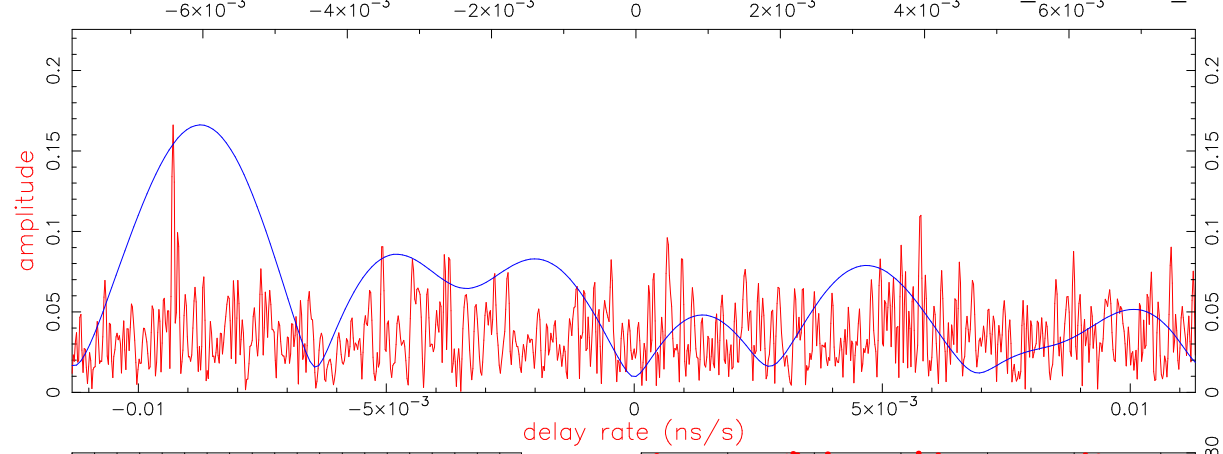
Group delay (usec)(sbd)	-1.92830699953E+03	Apriori delay (usec)	-1.92908494339E+03	Resid mbdelay (usec)	-3.30614E-03	+/-	1.8E-04
Sband delay (usec)	-1.92830189389E+03	Apriori clock (usec)	-5.3082142E+00	Resid sbdelay (usec)	7.83050E-01	+/-	1.5E-03
Phase delay (usec)	-1.92908493782E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	5.57110E-06	+/-	6.3E-07
Delay rate (us/s)	-1.27670642508E-01	Apriori rate (us/s)	-1.27680904654E-01	Resid rate (us/s)	1.02621E-05	+/-	6.0E-09
Total phase (deg)	164.1	Apriori accel (us/s/s)	2.49710314581E-05	Resid phase (deg)	172.8	+/-	19.5

ph/seg (deg)	59.9	Theor.	45.7	Amplitude	0.236 +/- 0.040	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	79.7	Search (1024X32)	0.154	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	26.2	Inc. seg. avg.	0.250	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	52.8	Inc. frq. avg.	0.219	Sample rate (MSamp/s):	128	ion window (TEC)	0.00	0.00	

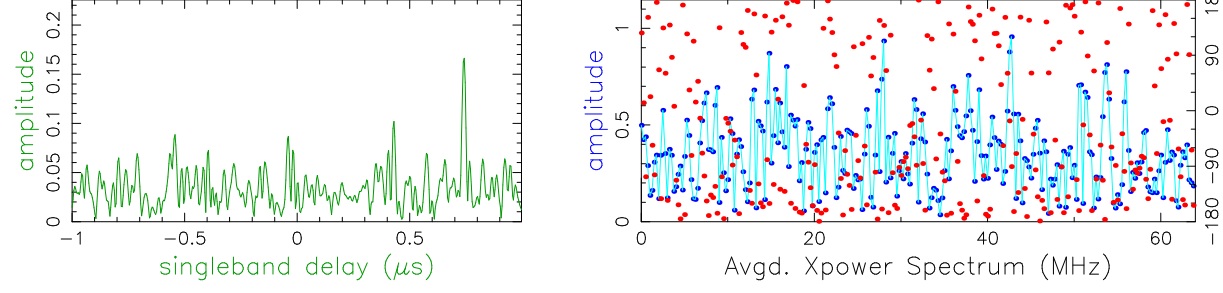
b: az 74.4 el 33.0 pa -50.7 f: az 69.5 el 39.4 pa -75.8 u,v (fr/asec) 900.695 3037.579 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bf..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bf.W.41.18UHRL

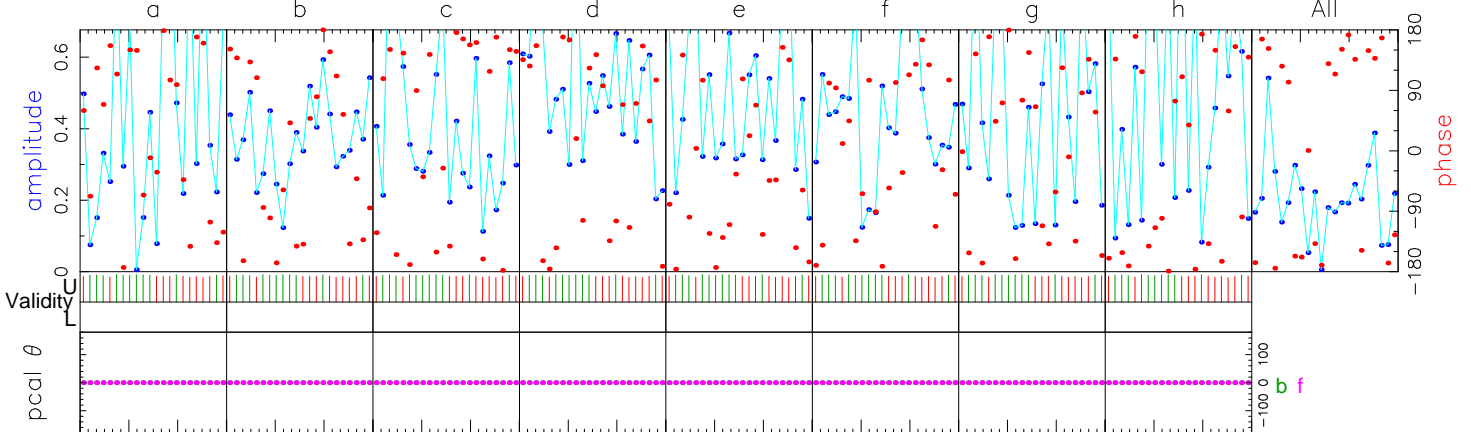
multiband delay (μ s)



Fringe quality 0
SNR 6.0
Int time 171.618
Amp 0.226
Phase 166.2
PFD 2.0e-01
Delays (us)
SBD 0.740777
MBD -0.006069
Fringe rate (Hz)
-0.802019
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143629
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

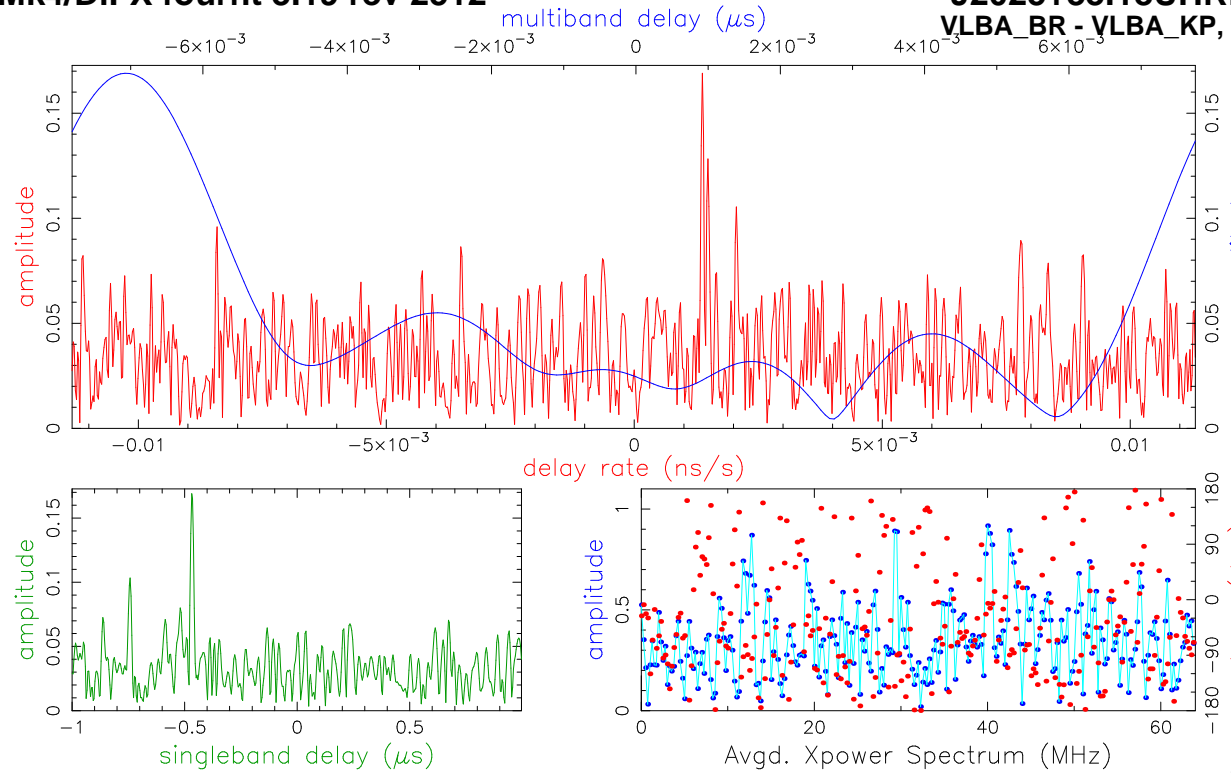
Group delay (usec)(sbd)	-1.92834101258E+03	Apriori delay (usec)	-1.92908494339E+03	Resid mbdelay (usec)	-6.06918E-03	+/-	1.8E-04
Sband delay (usec)	-1.92834416639E+03	Apriori clock (usec)	-5.3082142E+00	Resid sbdelay (usec)	7.40777E-01	+/-	1.4E-03
Phase delay (usec)	-1.92908493803E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	5.35978E-06	+/-	6.1E-07
Delay rate (us/s)	-1.27690215301E-01	Apriori rate (us/s)	-1.27680904654E-01	Resid rate (us/s)	-9.31065E-06	+/-	5.9E-09
Total phase (deg)	157.6	Apriori accel (us/s/s)	2.49710314581E-05	Resid phase (deg)	166.2	+/-	19.0

ph/seg (deg)	50.4	Theor.	44.7	Amplitude	0.226 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	71.1	Search (1024X32)	0.154	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	38.2	Inc. seg. avg.	0.214	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	48.1	Inc. frq. avg.	0.224	Sample rate (MSamp/s):	128	ion window (TEC)	0.00	0.00	
				Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite	

b: az 74.4 el 33.0 pa -50.7 f: az 69.5 el 39.4 pa -75.8 u,v (fr/asec) 900.695 3037.579 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bf..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bf.W.4.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bk
VLBA_BR - VLBA_KP, fgroup W, pol RR

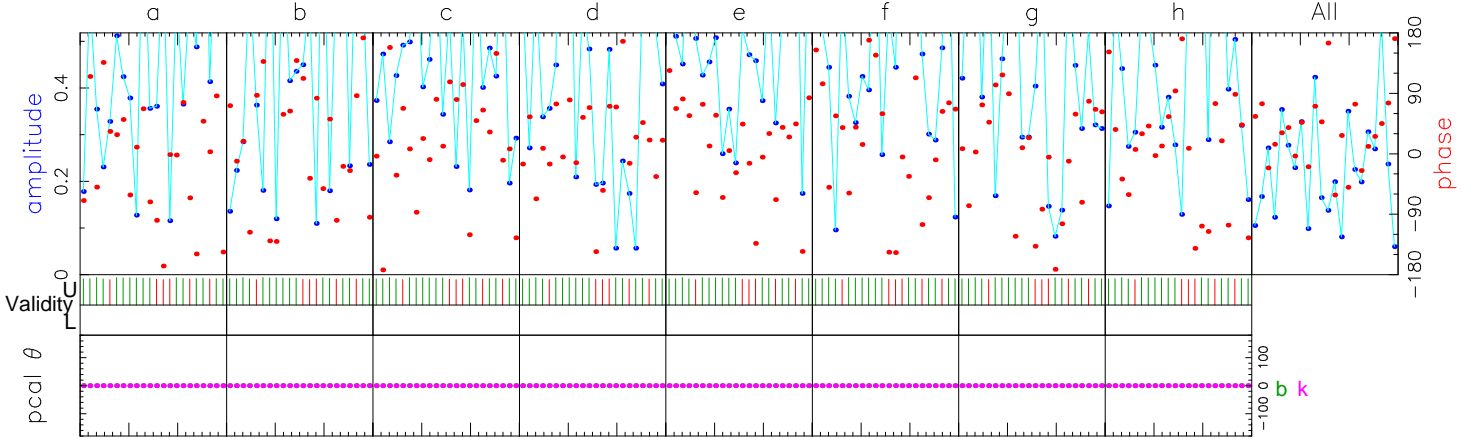


Fringe quality 0

SNR 6.2
Int time 173.832
Amp 0.173
Phase 29.3
PFD 7.7e-02
Delays (us)
SBD -0.467229
MBD -0.007030
Fringe rate (Hz) 0.117768
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143633
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

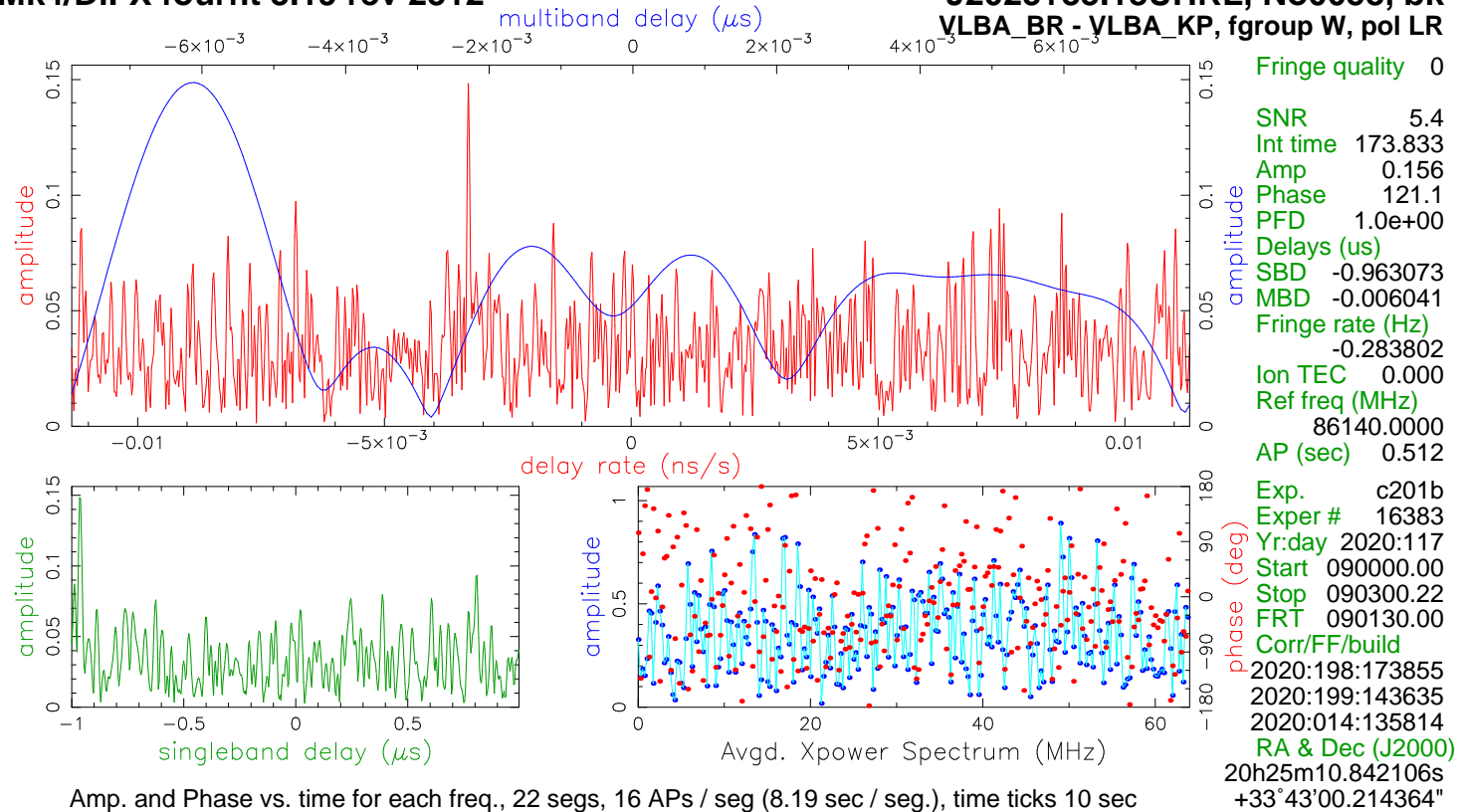
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



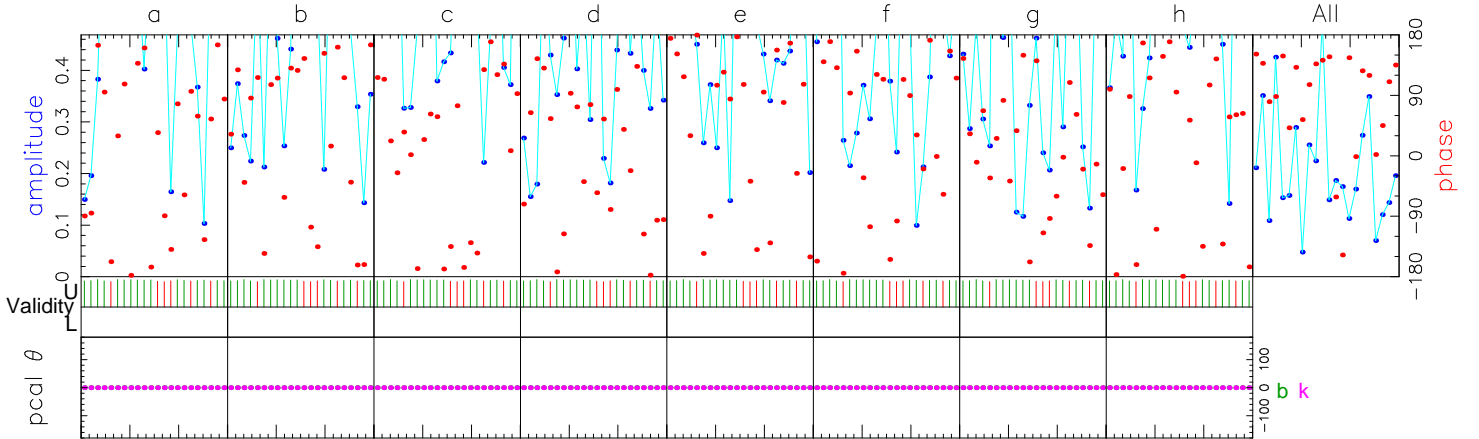
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.46696344140E+02				-2.46236189531E+02				Resid mbdelay (usec)	-7.02961E-03 +/- 1.8E-04
Sband delay (usec)	-2.46703418031E+02				-1.0636593E+00				Resid sbdelay (usec)	-4.67229E-01 +/- 1.4E-03
Phase delay (usec)	-2.46236188586E+02				-4.7400004E-08				Resid phdelay (usec)	9.44770E-07 +/- 6.0E-07
Delay rate (us/s)	-1.78413153970E-01				-1.78414521145E-01				Resid rate (us/s)	1.36717E-06 +/- 5.7E-09
Total phase (deg)			-102.5		1.48088643584E-05				Resid phase (deg)	29.3 +/- 18.5

ph/seg (deg) 56.9 43.4 Search (1024X32) 0.165 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.2 75.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.8 26.2 Inc. seg. avg. 0.184 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.0 45.7 Inc. frq. avg. 0.158 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 74.4 el 33.0 pa -50.7 k: az 68.2 el 33.7 pa -71.5 u,v (fr/asec) 1242.704 2356.674 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bk..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bk.W.15.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
122.9	141.1	103.0	54.1	143.2	136.0	15.8	129.7		Phase	121.1
0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2		Ampl.	0.2
255.5	73.1	403.2	474.9	395.1	385.7	95.7	431.4		Sbd box	10.5
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
k 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
b:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
b:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
k 1000	1000	1000	1000	1000	1000	1000	1000			
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
k W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.47195355898E+02		Apriori delay (usec)	-2.46236189531E+02	Resid mbdelay (usec)	-6.04137E-03	+/-	2.0E-04		
Sband delay (usec)	-2.47199262781E+02		Apriori clock (usec)	-1.0636593E+00	Resid sbdelay (usec)	-9.63073E-01	+/-	1.6E-03		
Phase delay (usec)	-2.46236185627E+02		Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	3.90397E-06	+/-	6.8E-07		
Delay rate (us/s)	-1.78417815808E-01		Apriori rate (us/s)	-1.78414521145E-01	Resid rate (us/s)	-3.29466E-06	+/-	6.5E-09		
Total phase (deg)		-10.8	Apriori accel (us/s/s)	1.48088643584E-05	Resid phase (deg)	121.1	+/-	21.1		

ph/seg (deg) 64.7 49.4 Search (1024X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

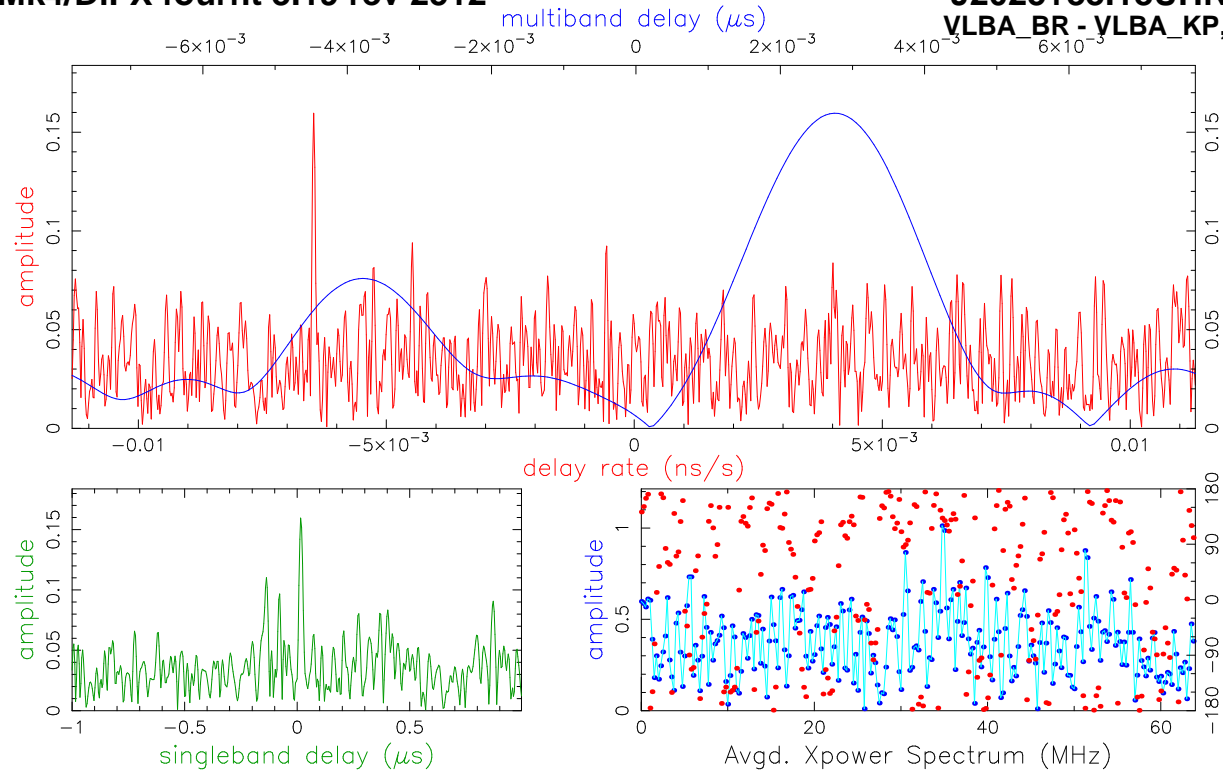
amp/seg (%) 84.1 86.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 53.4 29.8 Inc. seg. avg. 0.160 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 44.3 52.0 Inc. frq. avg. 0.167 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

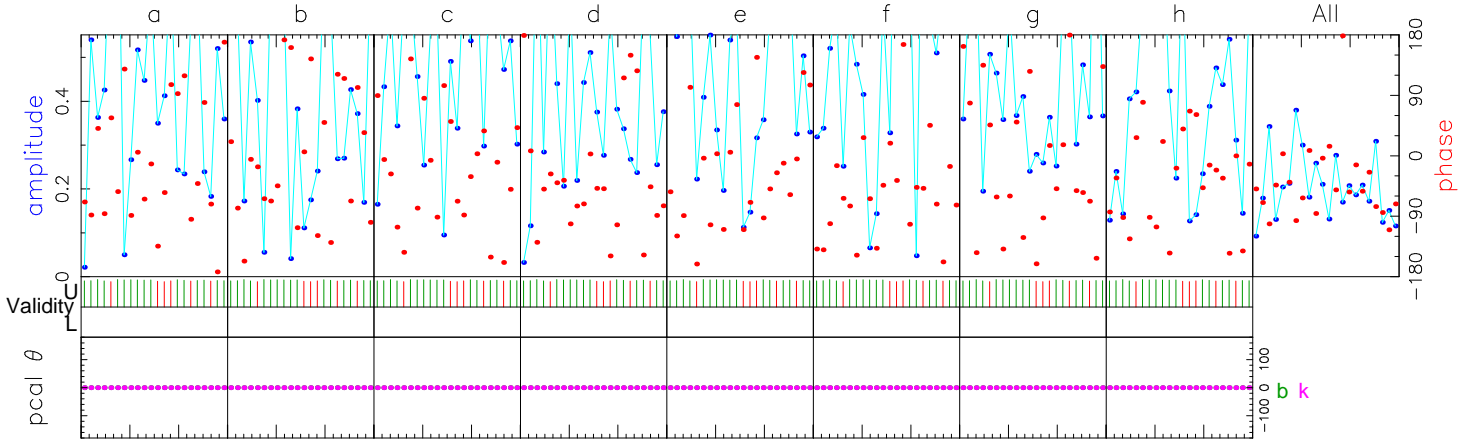
b: az 74.4 el 33.0 pa -50.7 k: az 68.2 el 33.7 pa -71.5 u,v (fr/asec) 1242.704 2356.674 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bk..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bk.W.22.18UHRL



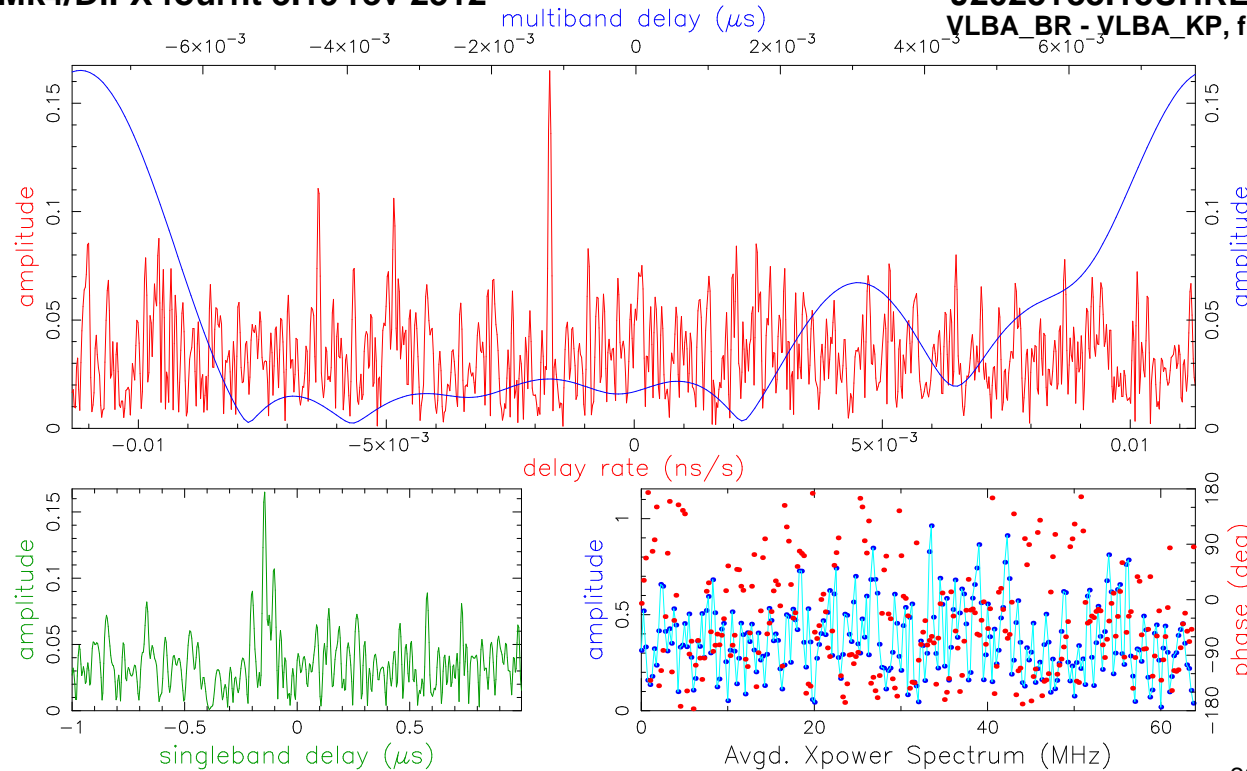
Fringe quality 0
SNR 5.8
Int time 173.832
Amp 0.184
Phase -58.9
PFD 6.3e-01
Delays (us)
SBD 0.016344
MBD 0.002774
Fringe rate (Hz)
-0.558604
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143638
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



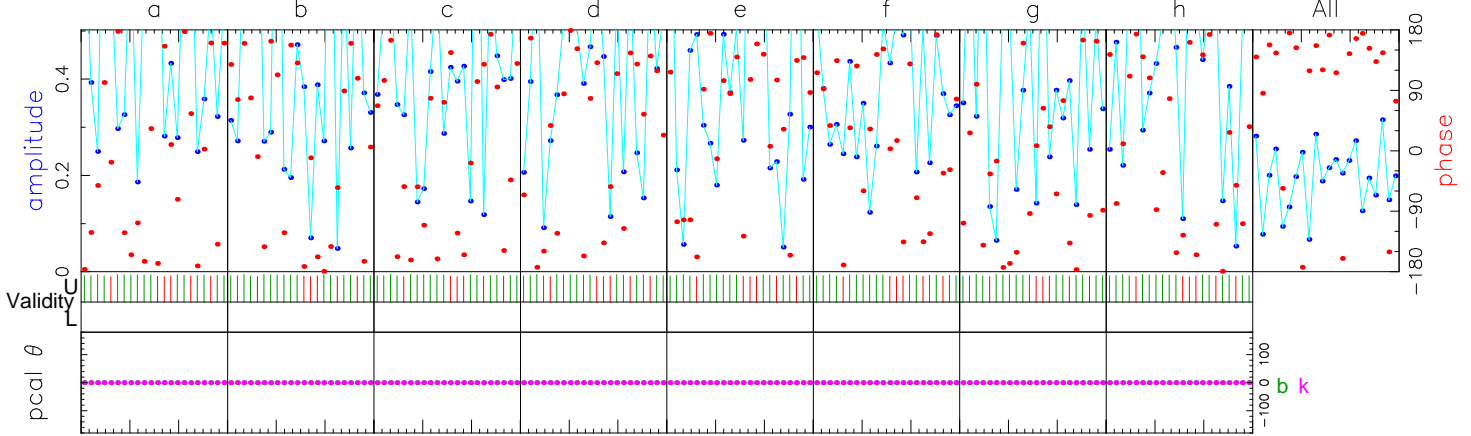
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-43.9	-62.7	-48.0	-82.2	-42.6	-63.8	-117.2	-32.4	Phase	-58.9
	0.2	0.1	0.2	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	352.0	327.2	53.1	311.2	358.6	259.8	454.2	325.9	Sbd box	261.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.46217790891E+02		Apriori delay (usec)		-2.46236189531E+02		Resid mbdelay (usec)		2.77364E-03	+/- 1.9E-04
Sband delay (usec)	-2.46219845281E+02		Apriori clock (usec)		-1.0636593E+00		Resid sbdelay (usec)		1.63442E-02	+/- 1.5E-03
Phase delay (usec)	-2.46236191430E+02		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-1.89888E-06	+/- 6.4E-07
Delay rate (us/s)	-1.78421005985E-01		Apriori rate (us/s)		-1.78414521145E-01		Resid rate (us/s)		-6.48484E-06	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.48088643584E-05		Resid phase (deg)		-58.9	+/- 19.9

ph/seg (deg) 44.3 46.6 Search (1024X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.4 81.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.7 28.1 Inc. seg. avg. 0.179 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.8 49.0 Inc. frq. avg. 0.176 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 74.4 el 33.0 pa -50.7 k: az 68.2 el 33.7 pa -71.5 u,v (fr/asec) 1242.704 2356.674 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bk..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bk.W.32.18UHRL



Fringe quality 0
 SNR 6.0
 Int time 173.833
 Amp 0.167
 Phase 152.3
 PFD 2.5e-01
 Delays (us)
 SBD -0.145509
 MBD -0.007758
 Fringe rate (Hz)
 -0.147586
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143630
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.46384572823E+02	Apriori delay (usec)	-2.46236189531E+02	Resid mbdelay (usec)	-7.75829E-03	+/-	1.8E-04
Sband delay (usec)	-2.46381698531E+02	Apriori clock (usec)	-1.0636593E+00	Resid sbdelay (usec)	-1.45509E-01	+/-	1.4E-03
Phase delay (usec)	-2.46236184620E+02	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	4.91101E-06	+/-	6.2E-07
Delay rate (us/s)	-1.78416234476E-01	Apriori rate (us/s)	-1.78414521145E-01	Resid rate (us/s)	-1.71333E-06	+/-	5.9E-09
Total phase (deg)		Apriori accel (us/s/s)	1.48088643584E-05	Resid phase (deg)	152.3	+/-	19.2

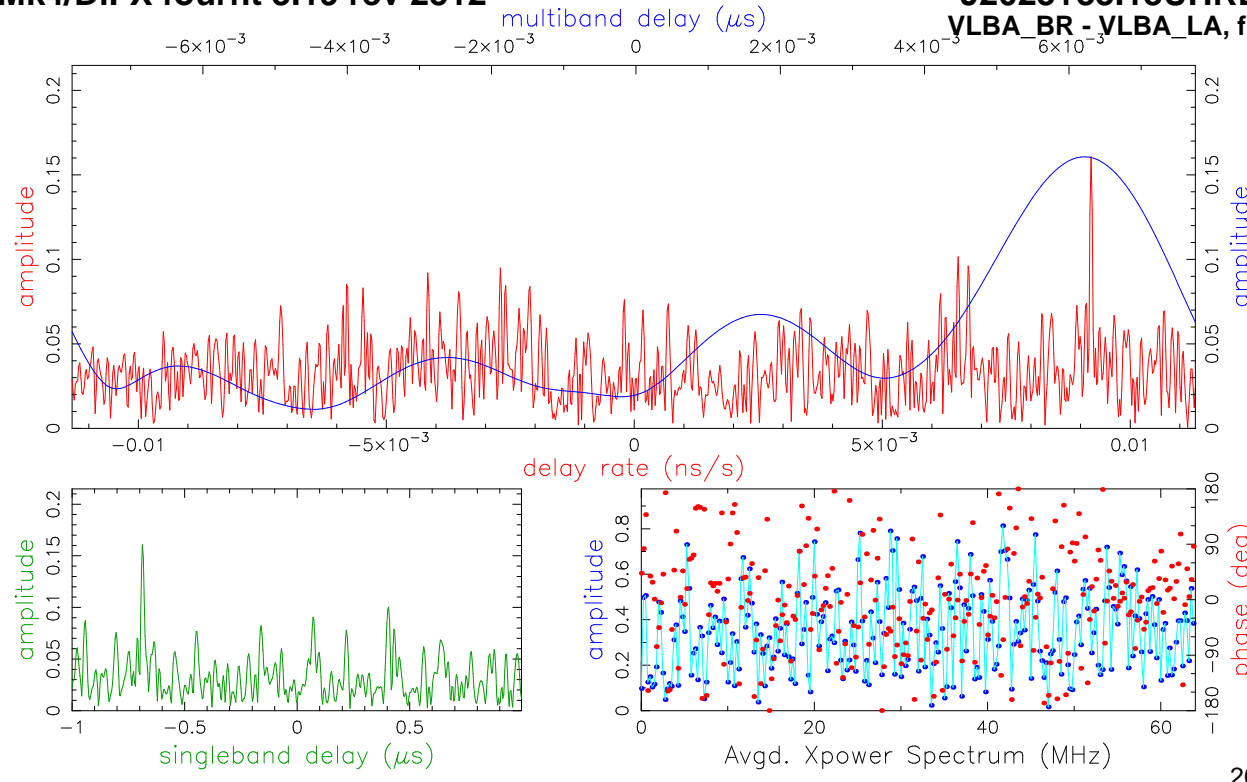
ph/seg (deg)	45.3	Theor.	44.9	Amplitude	0.167 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	44.2		78.4	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	28.3		27.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.0		47.3	Inc. seg. avg.	0.152	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.160	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 74.4 el 33.0 pa -50.7 k: az 68.2 el 33.7 pa -71.5 u,v (fr/asec) 1242.704 2356.674 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bk..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bk.W.7.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bl

VLBA_BR - VLBA_LA, fgroup W, pol LL

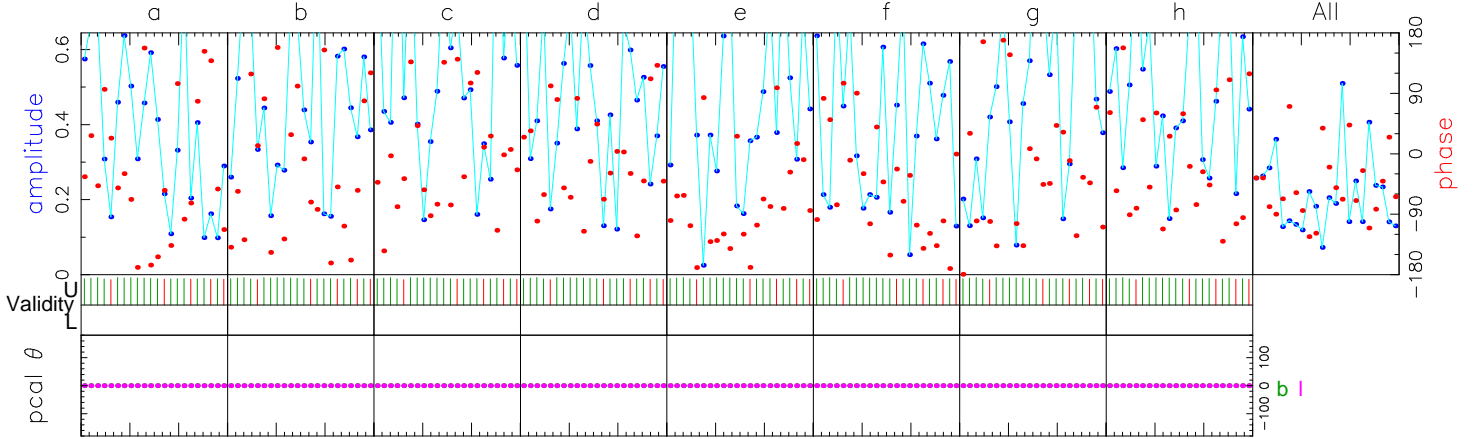


Fringe quality 0

SNR 5.8
 Int time 173.574
 Amp 0.215
 Phase -63.5
 PFD 5.7e-01
 Delays (us)
 SBD -0.687080
 MBD 0.006218
 Fringe rate (Hz) 0.794650
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143632
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



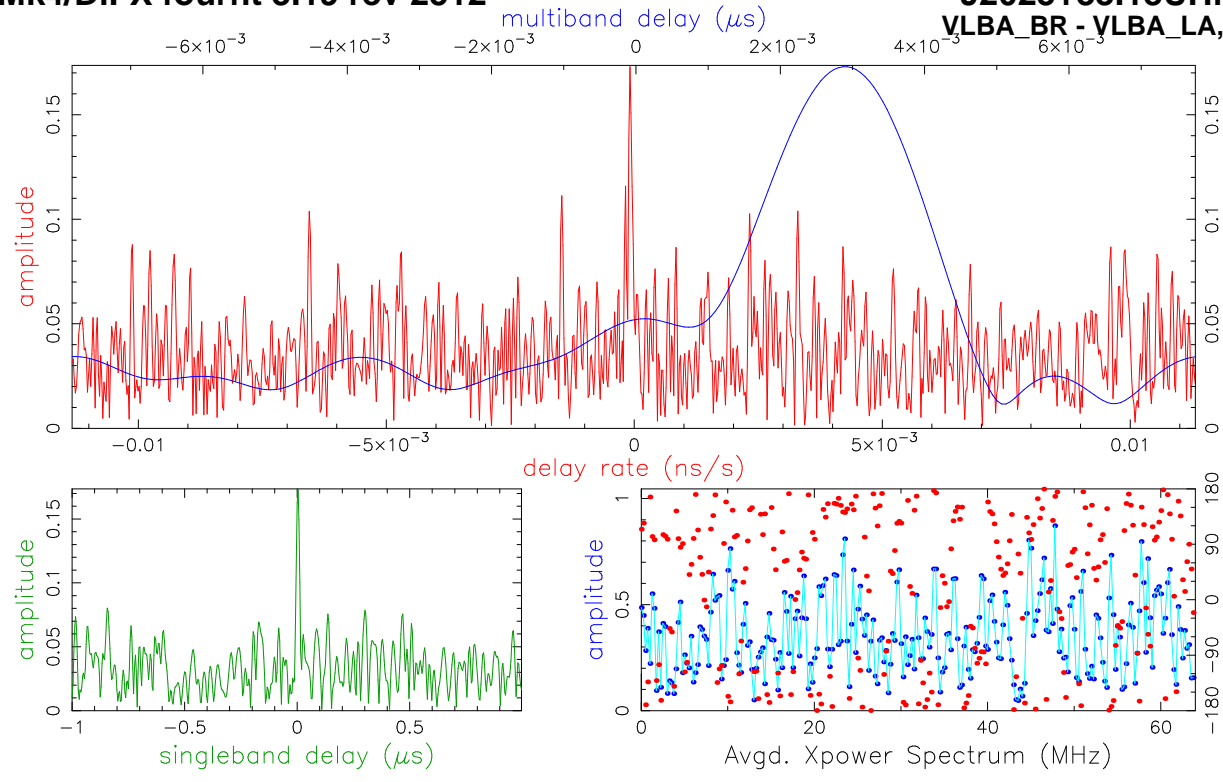
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.87136067586E+03	Apriori delay (usec)	-1.87067939409E+03	Resid mbdelay (usec)	6.21824E-03	+/-	1.9E-04
Sband delay (usec)	-1.87136647384E+03	Apriori clock (usec)	2.2983134E+00	Resid sbdelay (usec)	-6.87080E-01	+/-	1.5E-03
Phase delay (usec)	-1.87067939614E+03	Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	-2.04925E-06	+/-	6.4E-07
Delay rate (us/s)	-9.30767412629E-02	Apriori rate (us/s)	-9.30859663628E-02	Resid rate (us/s)	9.22510E-06	+/-	6.1E-09
Total phase (deg)	-66.1	Apriori accel (us/s/s)	1.99953722198E-05	Resid phase (deg)	-63.5	+/-	19.8

ph/seg (deg)	54.0	Theor.	46.3	Amplitude	0.215 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	71.9		80.9	Search (1024X32)	0.155	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	25.5		27.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	47.4		48.8	Inc. seg. avg.	0.217	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.207	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.13.18UHRL

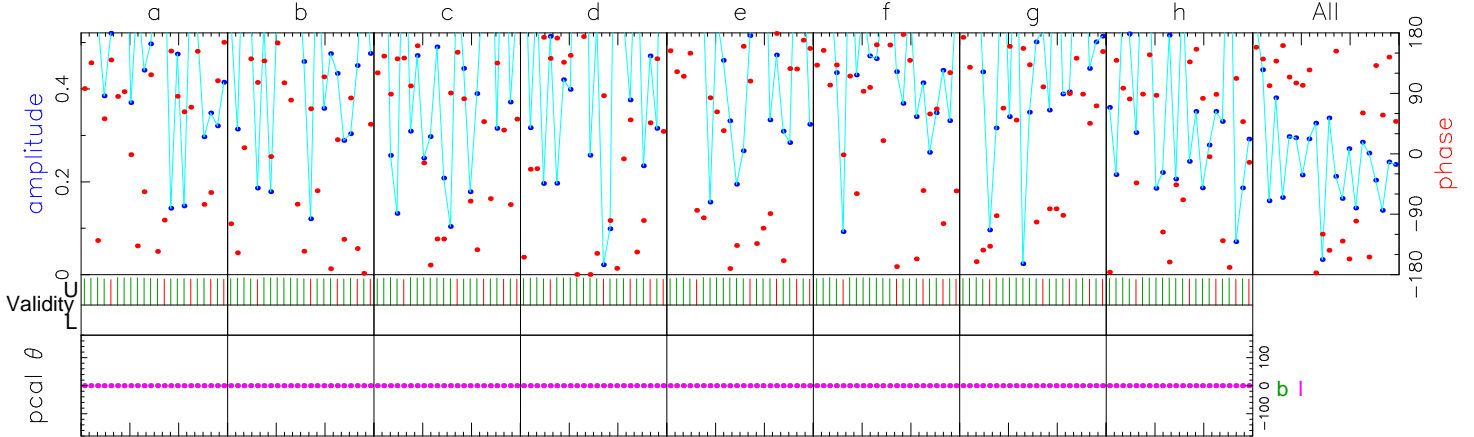


Fringe quality 0

SNR 6.3
Int time 173.573
Amp 0.174
Phase 145.1
PFD 5.3e-02
Delays (us)
SBD 0.003139
MBD 0.002855
Fringe rate (Hz) -0.008591
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143634
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

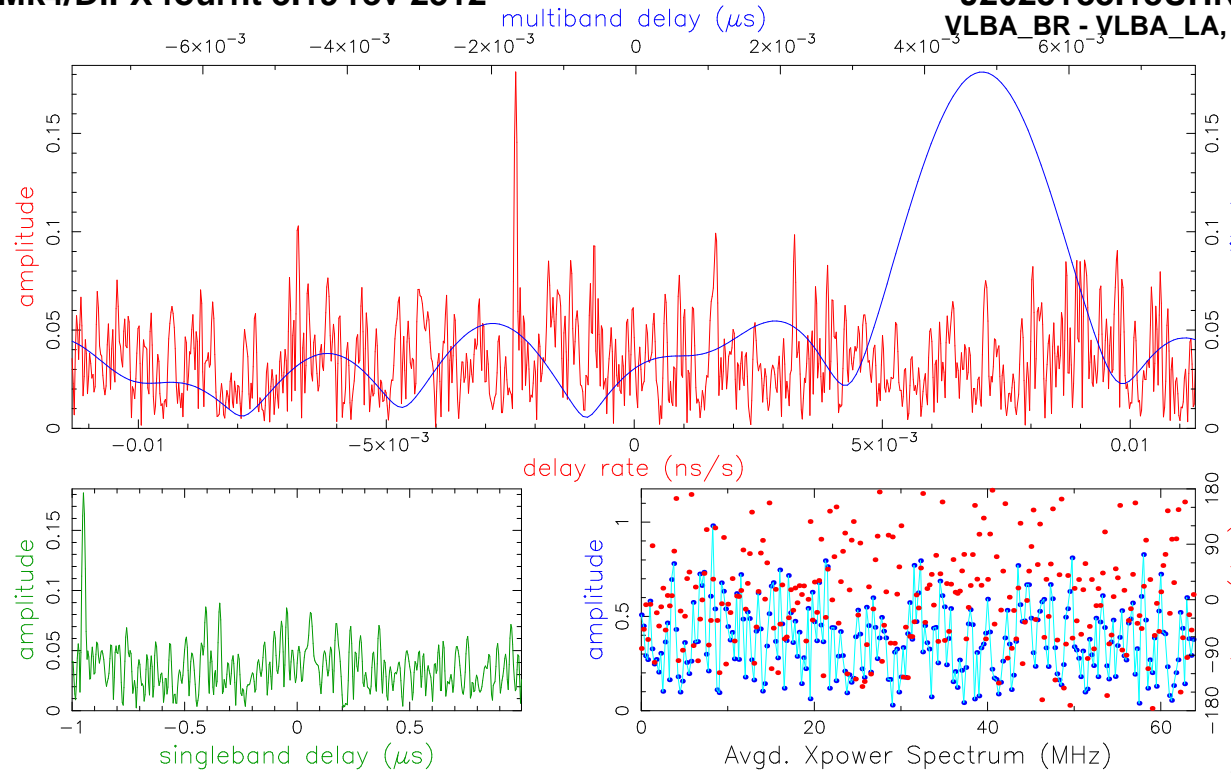


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.87067653951E+03									
Sband delay (usec)	-1.87067625534E+03									
Phase delay (usec)	-1.87067938941E+03									
Delay rate (us/s)	-9.30860660980E-02									
Total phase (deg)			142.6							
Apriori delay (usec)					-1.87067939409E+03				2.85458E-03	+/- 1.7E-04
Apriori clock (usec)					2.2983134E+00				3.13875E-03	+/- 1.4E-03
Apriori clockrate (us/s)					1.0899999E-07				4.68036E-06	+/- 5.9E-07
Apriori rate (us/s)					-9.30859663628E-02				-9.97352E-08	+/- 5.7E-09
Apriori accel (us/s/s)					1.99953722198E-05				145.1	+/- 18.3
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 58.1 43.0 Search (1024X32) 0.166 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.3 75.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.6 25.9 Inc. seg. avg. 0.201 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.6 45.2 Inc. frq. avg. 0.165 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 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.21.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bl
VLBA_BR - VLBA_LA, fgroup W, pol LR

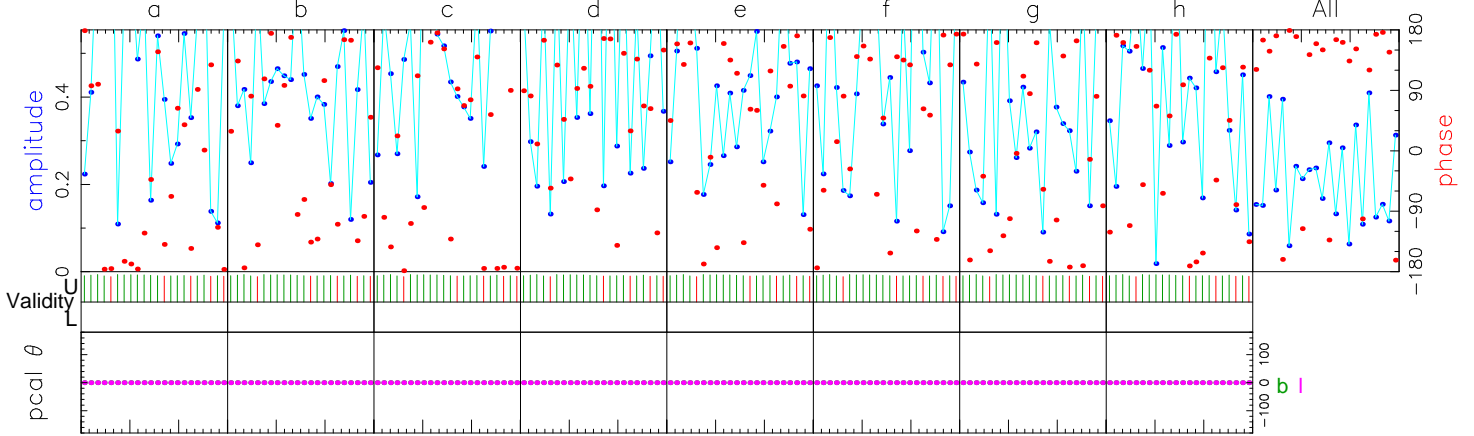


Fringe quality 0

SNR 6.5
Int time 173.574
Amp 0.185
Phase 168.2
PFD 9.2e-03
Delays (us)
SBD -0.949162
MBD 0.004798
Fringe rate (Hz)
-0.206242
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143636
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

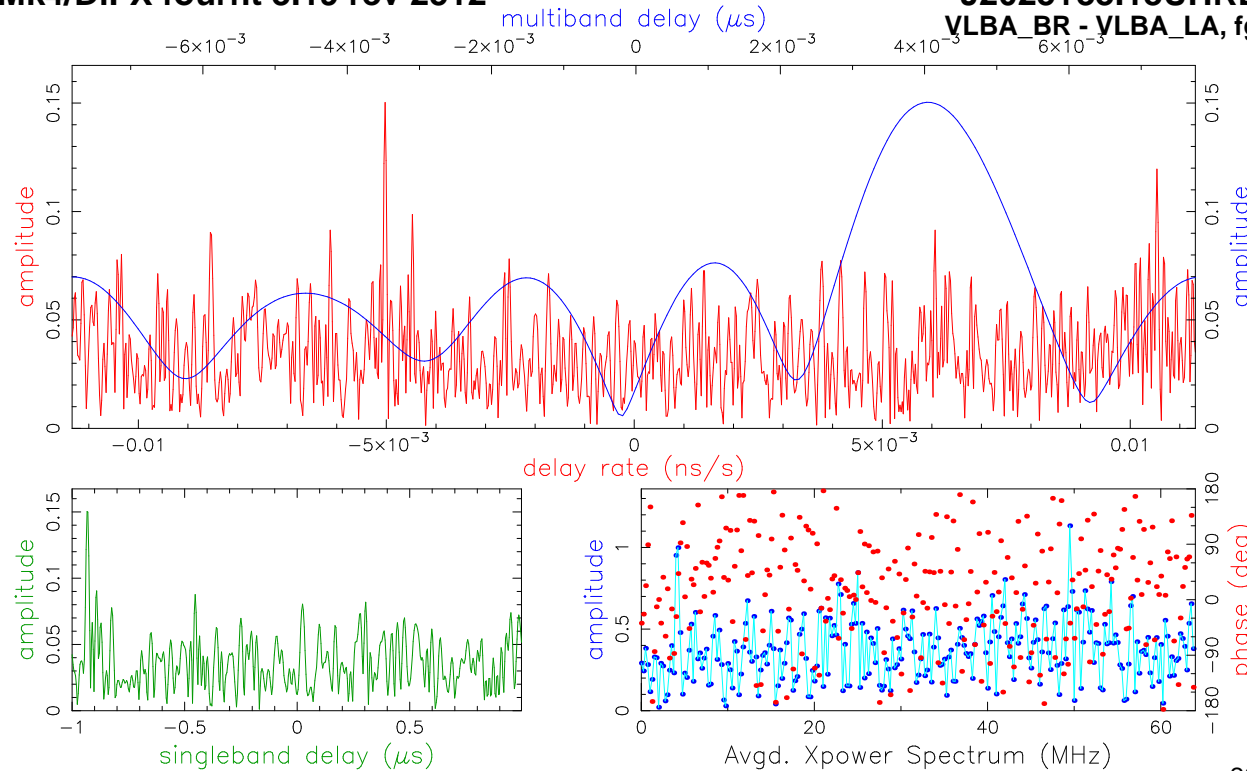
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.87162772089E+03								4.79820E-03	+/- 1.7E-04
Sband delay (usec)	-1.8716285659E+03								-9.49162E-01	+/- 1.3E-03
Phase delay (usec)	-1.87067938867E+03								5.42252E-06	+/- 5.7E-07
Delay rate (us/s)	-9.30883606315E-02								-2.39427E-06	+/- 5.4E-09
Total phase (deg)			165.6						168.2	+/- 17.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

b: az 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.27.18UHRL

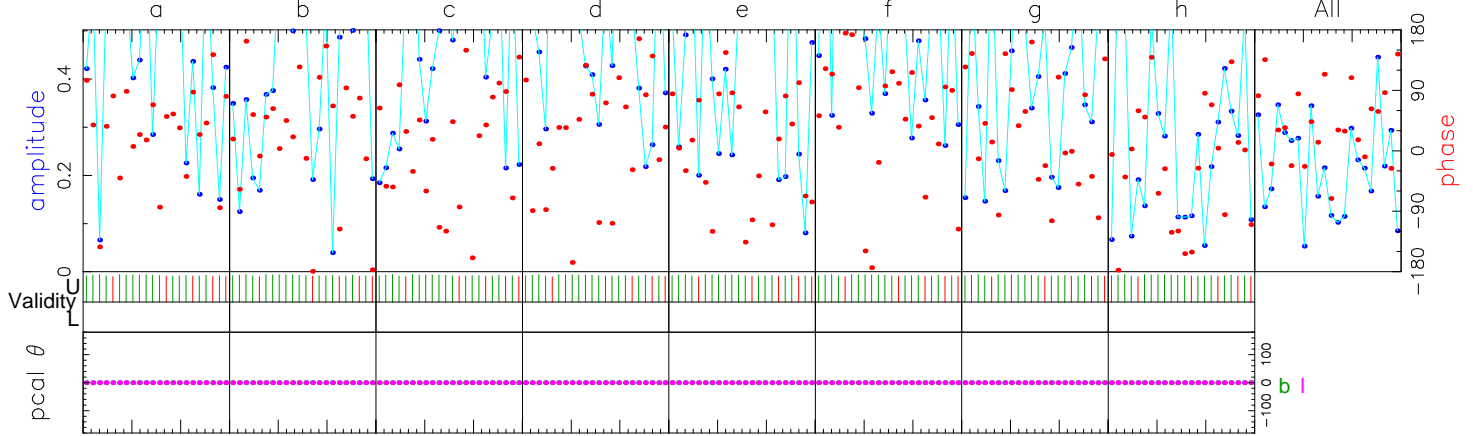


Fringe quality 0

SNR 5.6
Int time 173.573
Amp 0.167
Phase 44.0
PFD 9.6e-01
Delays (us)
SBD -0.931673
MBD 0.004087
Fringe rate (Hz)
-0.432916
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143638
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

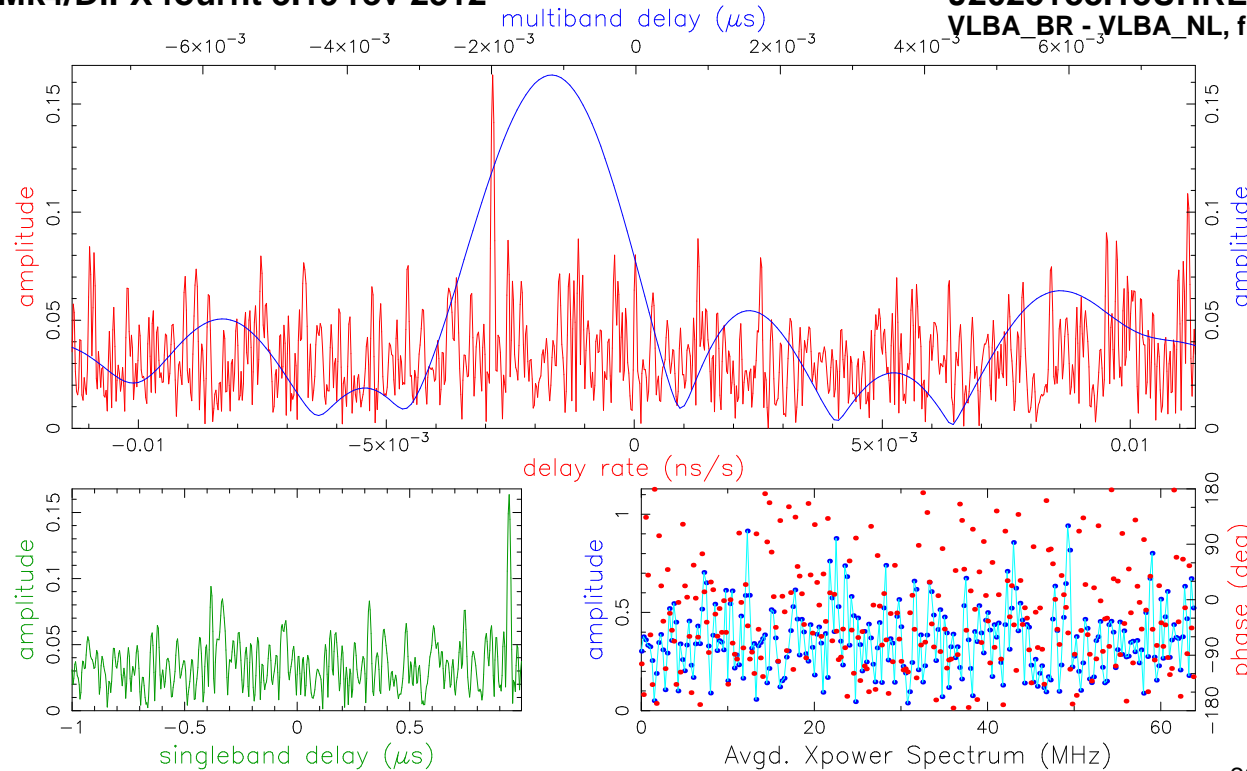
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.87161280752E+03				-1.87067939409E+03				4.08657E-03	+/- 2.0E-04
Sband delay (usec)	-1.87161106659E+03				2.2983134E+00				-9.31673E-01	+/- 1.6E-03
Phase delay (usec)	-1.87067939267E+03				1.0899999E-07				1.41754E-06	+/- 6.7E-07
Delay rate (us/s)	-9.30909920926E-02				-9.30859663628E-02				-5.02573E-06	+/- 6.4E-09
Total phase (deg)			41.4		1.99953722198E-05				44.0	+/- 20.6
	RMS	Theor.	Amplitude	0.167 +/- 0.030	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	56.1	48.4	Search (1024X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	77.6	84.4	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	50.3	29.2	Inc. seg. avg.	0.178	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	56.7	50.9	Inc. frq. avg.	0.169	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00

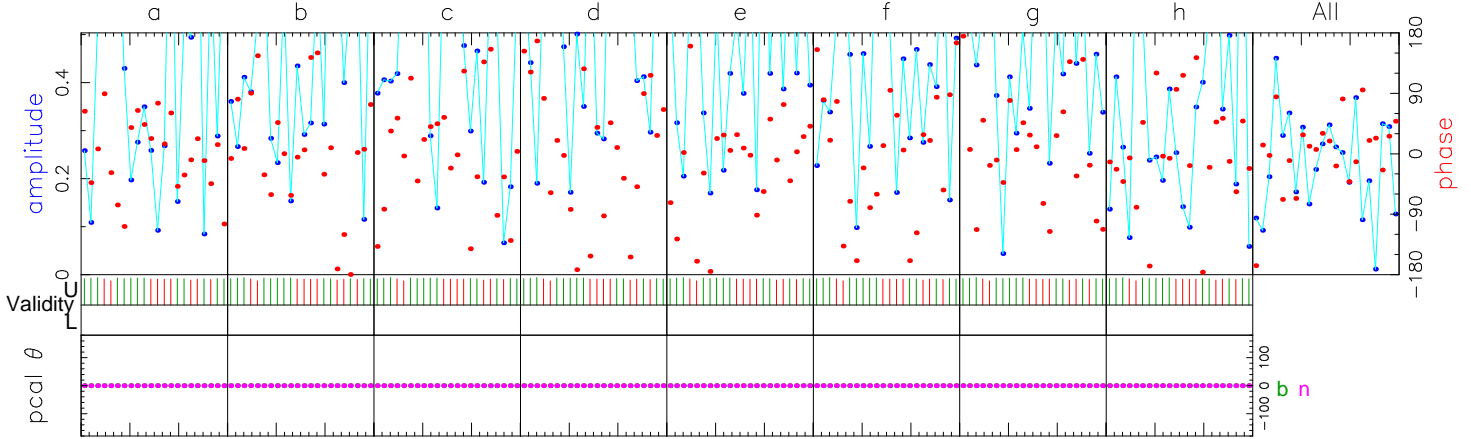
b: az 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.35.18UHRL



Fringe quality 0
SNR 5.9
Int time 171.792
Amp 0.168
Phase 10.4
PFD 4.4e-01
Delays (us)
SBD 0.941148
MBD -0.001179
Fringe rate (Hz)
-0.246991
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143641
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

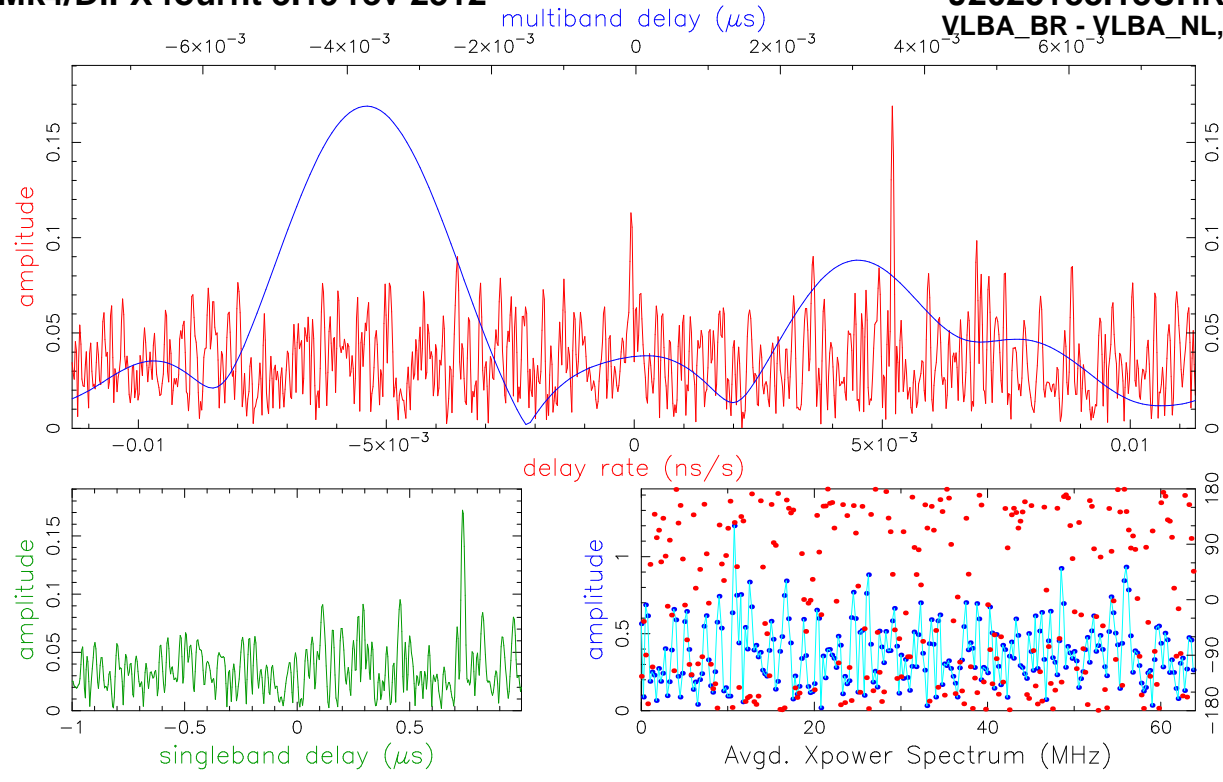
Group delay (usec)(sbd)	-5.10129485192E+03	Apriori delay (usec)	-5.10223117314E+03	Resid mbdelay (usec)	-1.17878E-03	+/-	1.9E-04
Sband delay (usec)	-5.10129002564E+03	Apriori clock (usec)	-3.3698826E+01	Resid sbdelay (usec)	9.41148E-01	+/-	1.5E-03
Phase delay (usec)	-5.10223117281E+03	Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	3.35201E-07	+/-	6.3E-07
Delay rate (us/s)	1.22281445956E-01	Apriori rate (us/s)	1.22284313276E-01	Resid rate (us/s)	-2.86732E-06	+/-	6.1E-09
Total phase (deg)	-81.3	Apriori accel (us/s/s)	3.18820657673E-05	Resid phase (deg)	10.4	+/-	19.6

ph/seg (deg)	56.0	Theor.	45.9	Amplitude	0.168 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.7		80.0	Search (1024X32)	0.156	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	21.0		27.7	Inc. seg. avg.	0.179	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.7		48.3	Inc. frq. avg.	0.157	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 74.4 el 33.0 pa -50.7 n: az 85.8 el 51.6 pa -63.4 u,v (fr/asec) -818.657 2258.288 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bn..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bn.W.46.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bn
VLBA_BR - VLBA_NL, fgroup W, pol RR

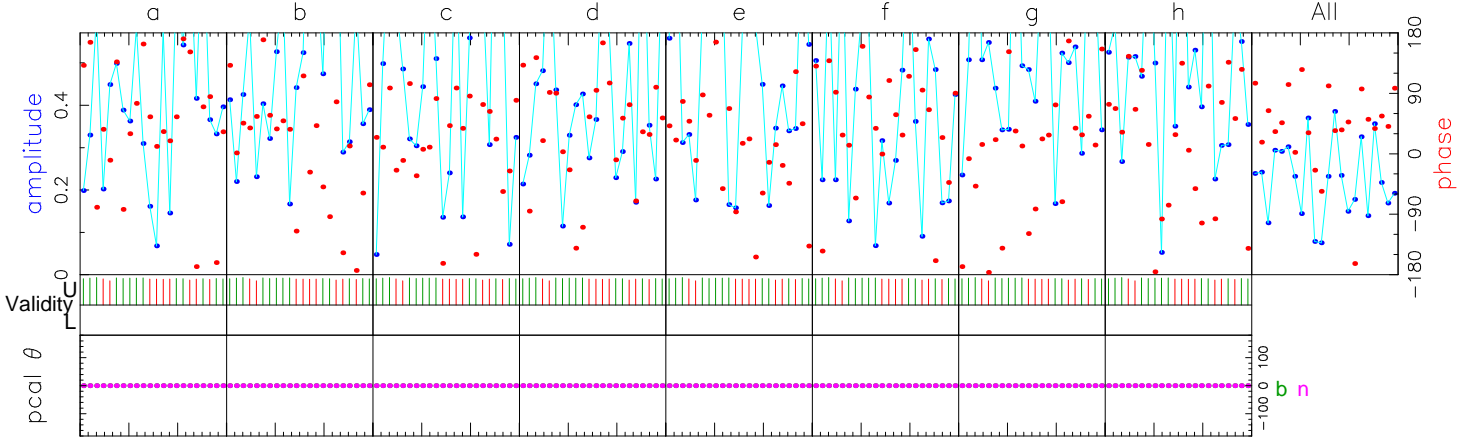


Fringe quality 0

SNR 6.2
Int time 171.791
Amp 0.190
Phase 55.1
PFD 5.6e-02
Delays (us)
SBD 0.735905
MBD -0.003726
Fringe rate (Hz)
0.449692
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143643
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-5.10150052396E+03				-5.10223117314E+03			Resid mbdelay (usec)	-3.72581E-03 +/- 1.7E-04
Sband delay (usec)		-5.10149526864E+03				-3.3698826E+01			Resid sbdelay (usec)	7.35905E-01 +/- 1.4E-03
Phase delay (usec)		-5.10223117137E+03				-3.7599999E-07			Resid phdelay (usec)	1.77700E-06 +/- 5.9E-07
Delay rate (us/s)		1.22289533755E-01				1.22284313276E-01			Resid rate (us/s)	5.22048E-06 +/- 5.7E-09
Total phase (deg)			-36.6			3.18820657673E-05			Resid phase (deg)	55.1 +/- 18.4

ph/seg (deg) 52.8 43.0
amp/seg (%) 58.4 75.1
ph/frq (deg) 35.1 26.0
amp/frq (%) 22.7 45.3

RMS Theor. Amplitude 0.190 +/- 0.030
Search (1024X32) 0.165
Interp. 0.000
Inc. seg. avg. 0.192
Inc. frq. avg. 0.193

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

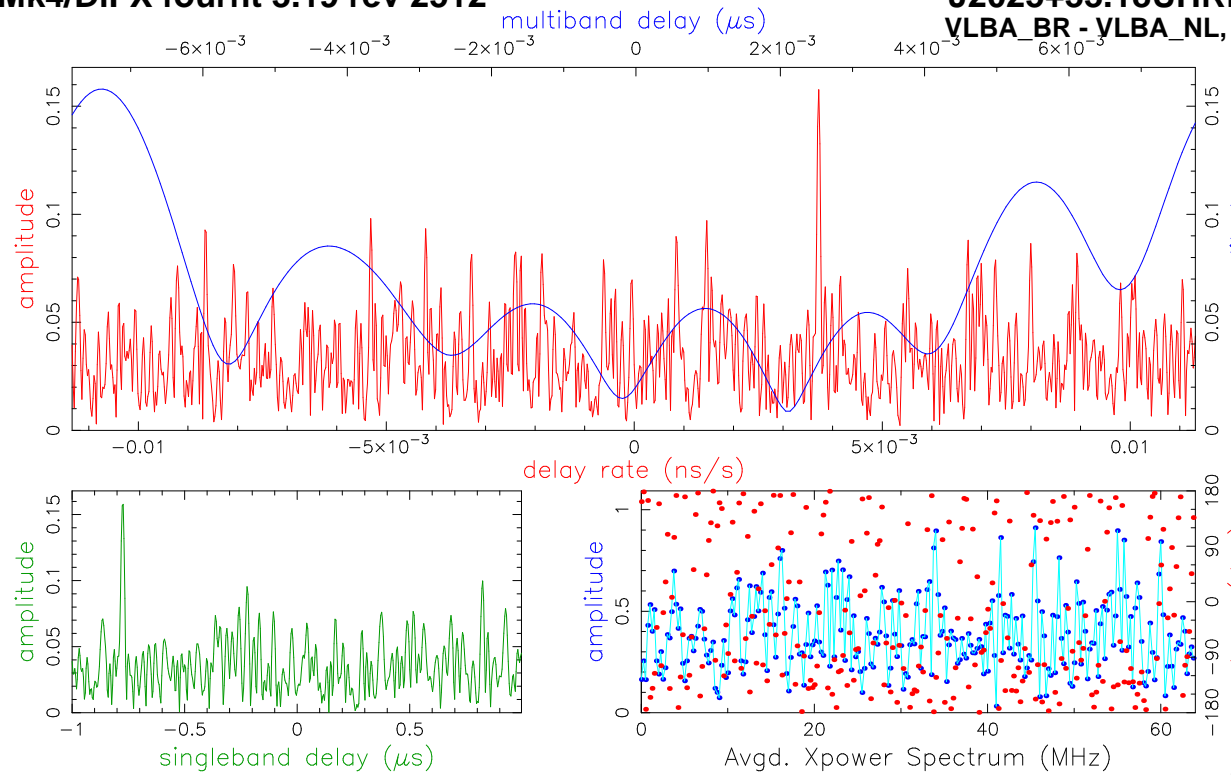
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 74.4 el 33.0 pa -50.7 n: az 85.8 el 51.6 pa -63.4 u,v (fr/asec) -818.657 2258.288 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bn..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bn.W.53.18UHRL

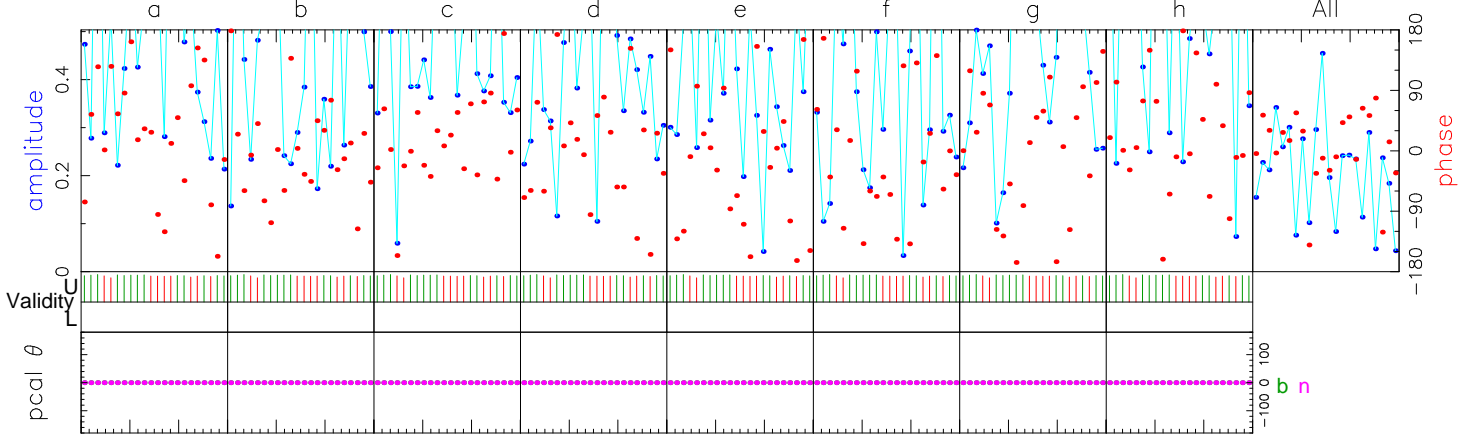
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bn
VLBA_BR - VLBA_NL, fgroup W, pol LR



Fringe quality 0
SNR 5.8
Int time 171.792
Amp 0.168
Phase 12.0
PFD 6.6e-01
Delays (us)
SBD -0.775218
MBD -0.007467
Fringe rate (Hz) 0.320844
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143644
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

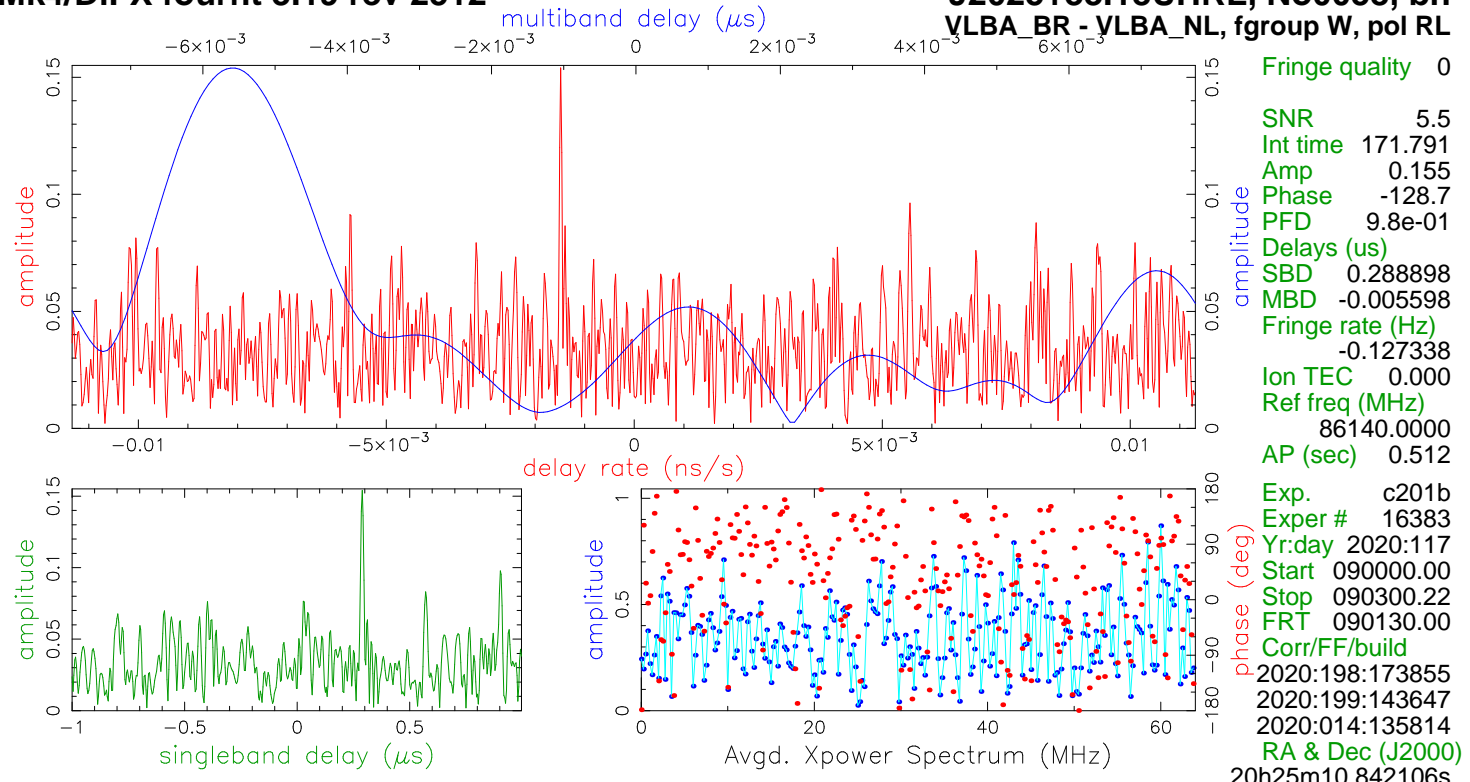


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.10300426480E+03									
Sband delay (usec)	-5.10300639114E+03									
Phase delay (usec)	-5.10223117276E+03									
Delay rate (us/s)	1.22288037953E-01									
Total phase (deg)			-79.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

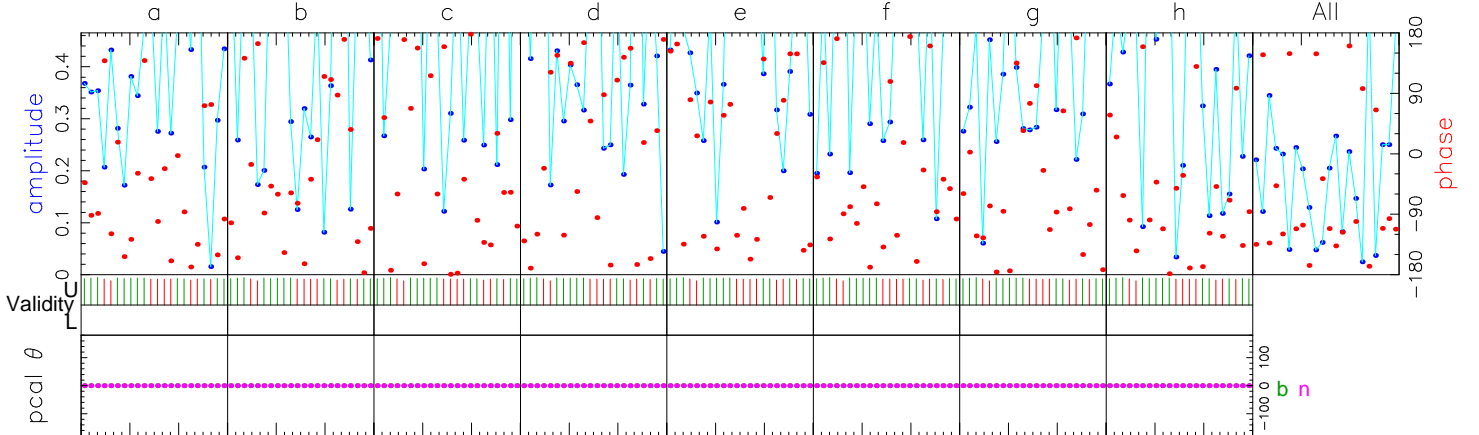
ph/seg (deg) 54.1 46.7 Search (1024X32) 0.157 PCAL mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.8 81.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.8 28.1 Inc. seg. avg. 0.165 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 67.4 49.1 Inc. frq. avg. 0.174 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 74.4 el 33.0 pa -50.7 n: az 85.8 el 51.6 pa -63.4 u,v (fr/asec) -818.657 2258.288 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bn..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bn.W.61.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bn
VLBA_BR - VLBA_NL, fgroup W, pol RL



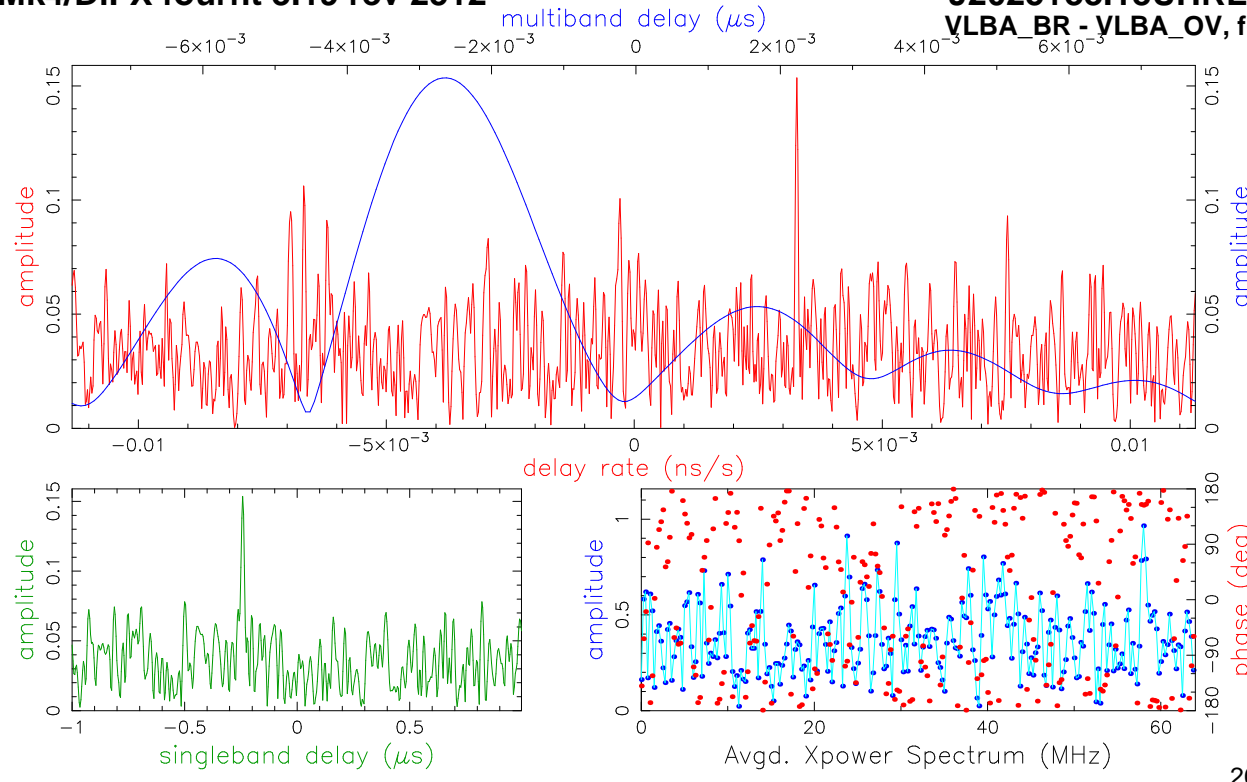
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-94.6	-136.9	-137.2	-158.2	-174.2	-112.5	-105.7	-121.9	Phase	-128.7
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	328.8	107.0	67.2	401.3	214.7	334.9	118.1	104.0	Sbd box	331.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.10193989641E+03		Apriori delay (usec)		-5.10223117314E+03		Resid mbdelay (usec)		-5.59826E-03	+/- 2.0E-04
Sband delay (usec)	-5.10194227464E+03		Apriori clock (usec)		-3.3698826E+01		Resid sbdelay (usec)		2.88898E-01	+/- 1.6E-03
Phase delay (usec)	-5.10223117729E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-4.15012E-06	+/- 6.7E-07
Delay rate (us/s)	1.22282835010E-01		Apriori rate (us/s)		1.22284313276E-01		Resid rate (us/s)		-1.47827E-06	+/- 6.4E-09
Total phase (deg)			Apriori accel (us/s/s)		3.18820657673E-05		Resid phase (deg)		-128.7	+/- 20.8

	RMS	Theor.	Amplitude	0.155 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	65.0	48.7	Search (1024X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	90.1	85.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	29.1	29.4	Inc. seg. avg.	0.148	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	24.3	51.2	Inc. frq. avg.	0.151	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 74.4 el 33.0 pa -50.7 n: az 85.8 el 51.6 pa -63.4 u,v (fr/asec) -818.657 2258.288 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bn..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bn.W.70.18UHRL

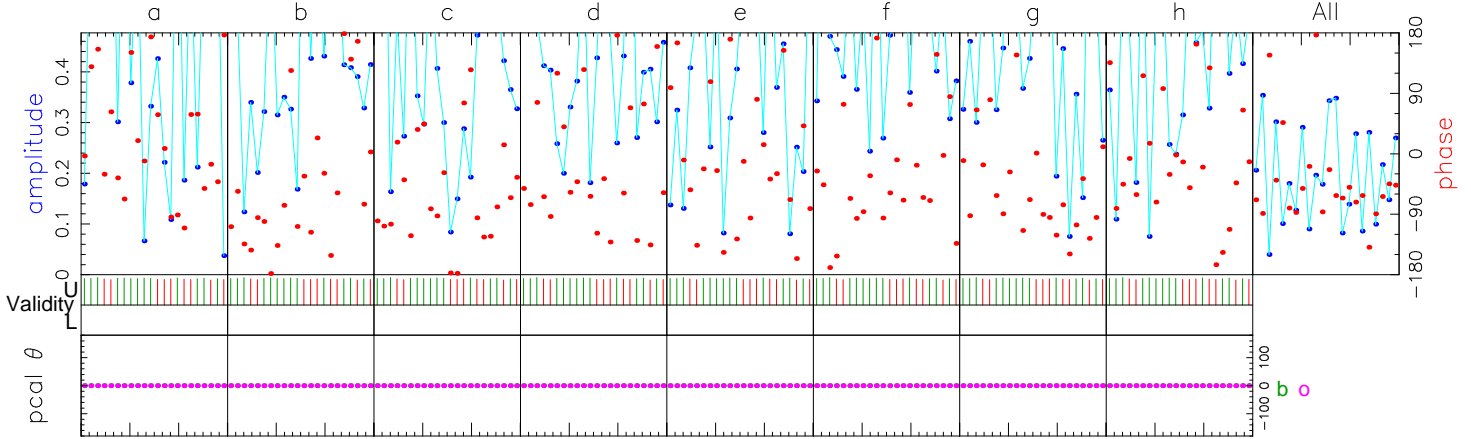


Fringe quality 0

SNR 5.5
Int time 172.286
Amp 0.159
Phase -66.6
PFD 9.9e-01
Delays (us)
SBD -0.241966
MBD -0.002625
Fringe rate (Hz) 0.282479
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143634
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

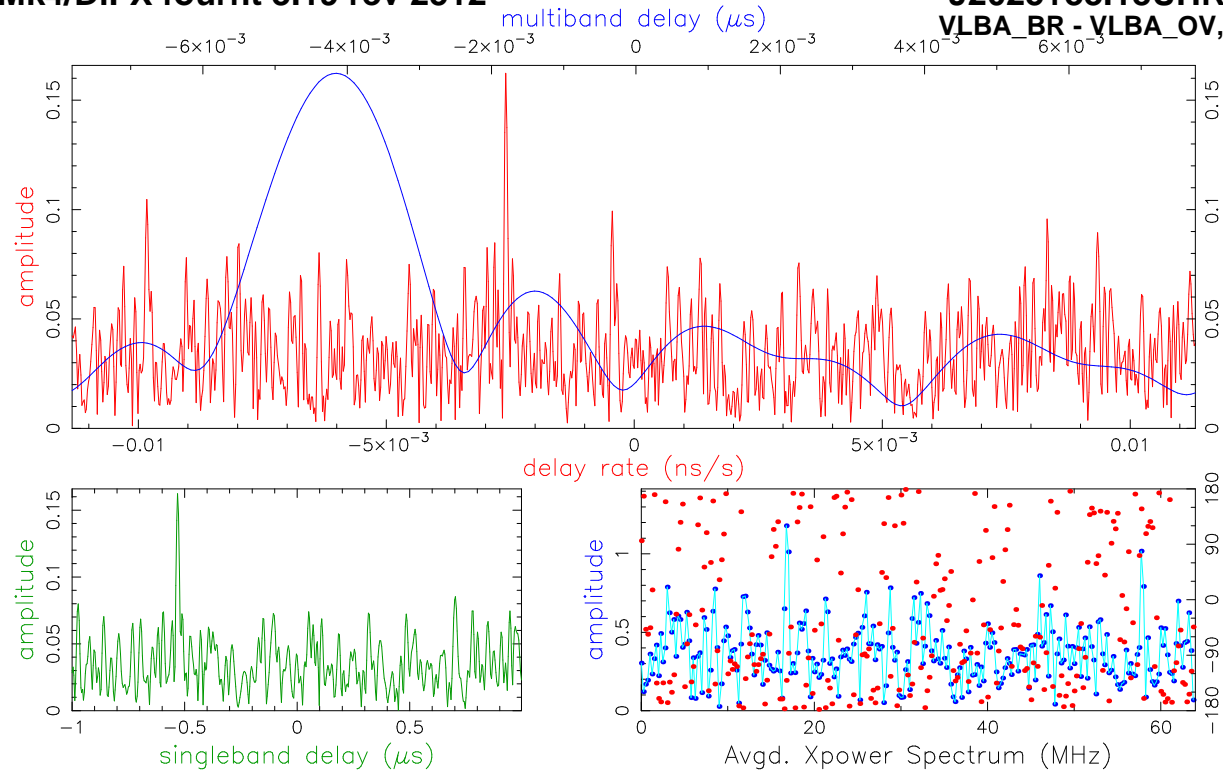


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-10.9	-98.9	-84.5	-64.8	-54.3	-66.5	-69.6	-48.8	Phase	-66.6
	0.2	0.2	0.3	0.1	0.1	0.2	0.2	0.1	Ampl.	0.2
	44.4	24.8	168.6	162.9	483.3	358.6	425.0	353.2	Sbd box	195.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.39639438121E+02		Apriori delay (usec)		7.39876437991E+02		Resid mbdelay (usec)		-2.62487E-03	+/- 2.0E-04
Sband delay (usec)	7.39634472241E+02		Apriori clock (usec)		-2.1498138E+01		Resid sbdelay (usec)		-2.41966E-01	+/- 1.6E-03
Phase delay (usec)	7.39876435842E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-2.14891E-06	+/- 6.7E-07
Delay rate (us/s)	-1.54508495590E-01		Apriori rate (us/s)		-1.54511774887E-01		Resid rate (us/s)		3.27930E-06	+/- 6.4E-09
Total phase (deg)			Apriori accel (us/s/s)		4.71041532066E-06		Resid phase (deg)		-66.6	+/- 20.8

ph/seg (deg) 53.3 48.7 Search (1024X32) 0.152 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.1 85.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 29.4 Inc. seg. avg. 0.150 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.0 51.3 Inc. frq. avg. 0.154 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 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.18.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bo
VLBA_BR - VLBA_OV, fgroup W, pol RR

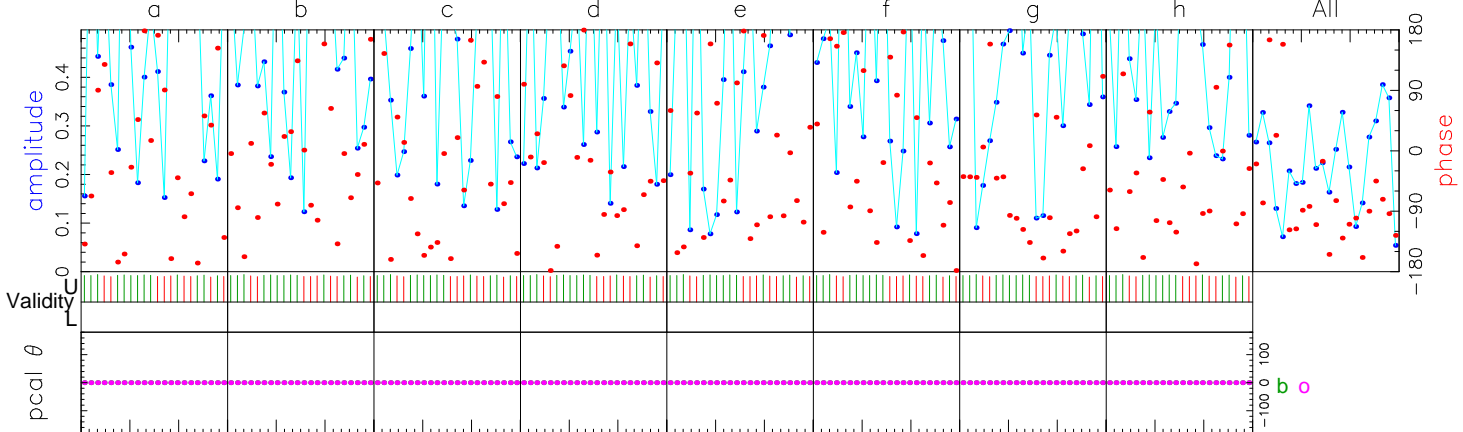


Fringe quality 0

SNR 5.8
Int time 172.285
Amp 0.166
Phase -91.5
PFD 5.1e-01
Delays (us)
SBD -0.531014
MBD -0.004153
Fringe rate (Hz)
-0.223681
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

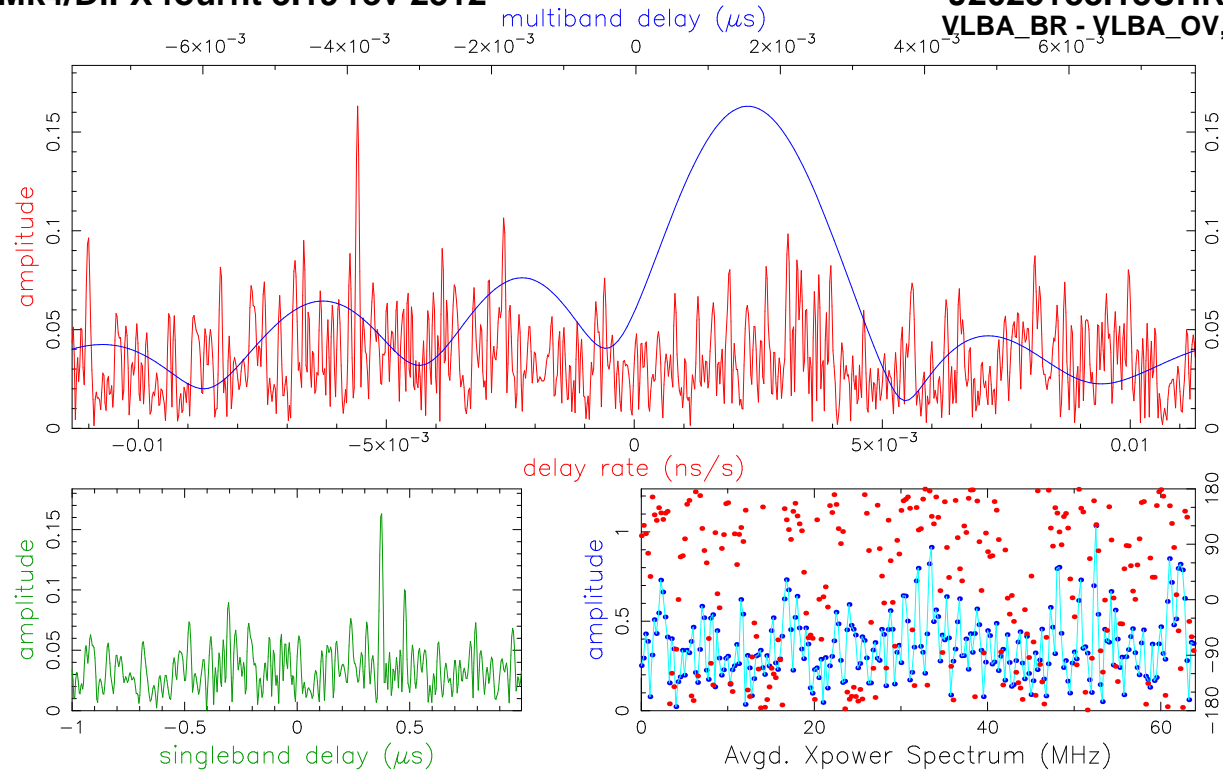
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143636
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-111.9	-57.5	-111.8	-74.2	-84.4	-119.6	-82.2	-93.1	Phase	-91.5
	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.2	Ampl.	0.2
	169.2	493.0	468.5	383.5	53.1	458.3	119.4	284.1	Sbd box	121.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.39341034745E+02		Apriori delay (usec)		7.39876437991E+02		Resid mbdelay (usec)		-4.15325E-03	+/- 1.9E-04
Sband delay (usec)	7.39345424241E+02		Apriori clock (usec)		-2.1498138E+01		Resid sbdelay (usec)		-5.31014E-01	+/- 1.5E-03
Phase delay (usec)	7.39876435039E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-2.95175E-06	+/- 6.3E-07
Delay rate (us/s)	-1.54514371603E-01		Apriori rate (us/s)		-1.54511774887E-01		Resid rate (us/s)		-2.59672E-06	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.71041532066E-06		Resid phase (deg)		-91.5	+/- 19.7

ph/seg (deg) 53.5 46.1 Search (1024X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 69.0 80.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 23.1 27.8 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 27.5 48.5 Inc. frq. avg. 0.157 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 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.25.18UHRL

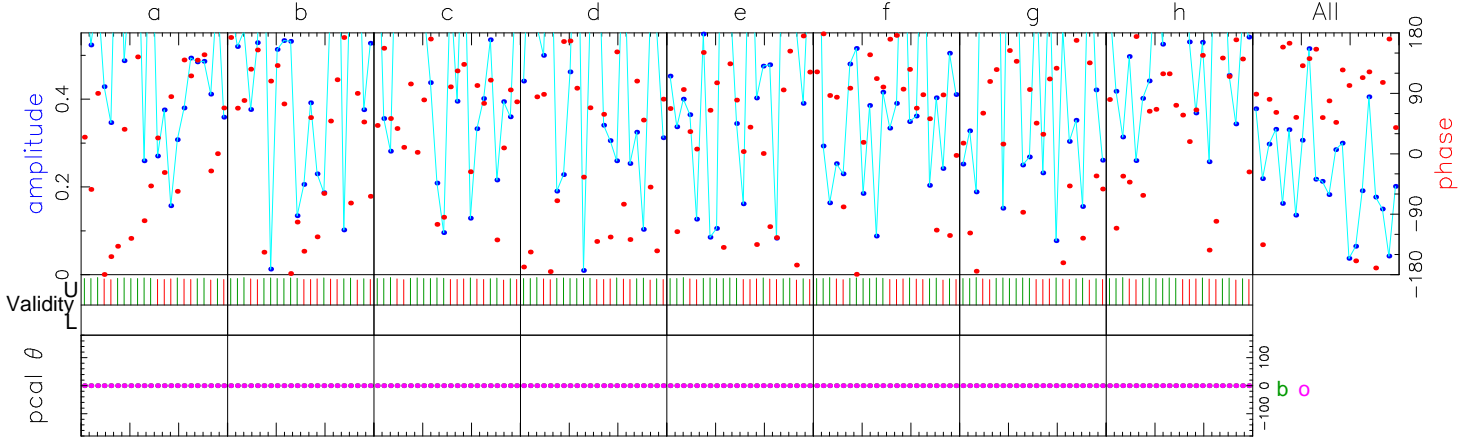


Fringe quality 0

SNR 6.0
Int time 172.286
Amp 0.184
Phase 113.4
PFD 2.8e-01
Delays (us)
SBD 0.373375
MBD 0.001532
Fringe rate (Hz)
-0.480571
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143637
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

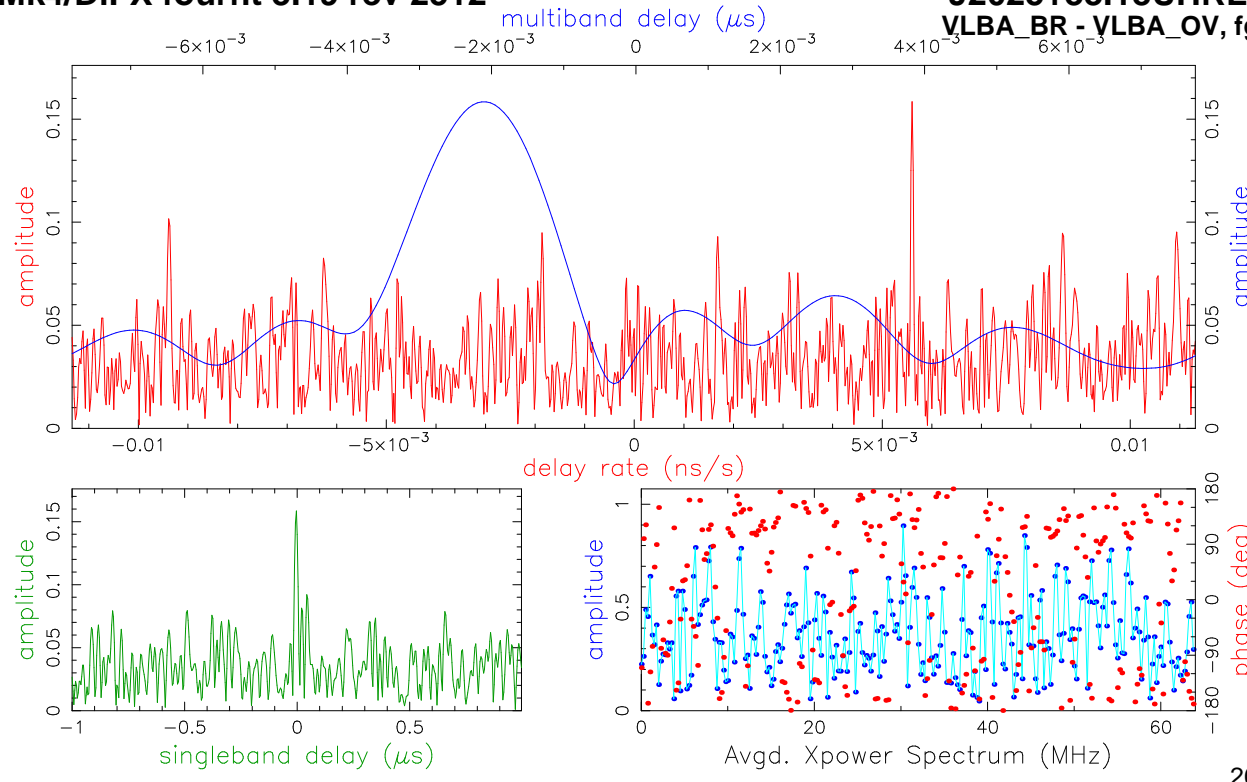


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	7.40252970104E+02								Resid mbdelay (usec)	1.53211E-03 +/- 1.8E-04
Sband delay (usec)	7.40249812991E+02								Resid sbdelay (usec)	3.73375E-01 +/- 1.4E-03
Phase delay (usec)	7.39876441649E+02								Resid phdelay (usec)	3.65753E-06 +/- 6.2E-07
Delay rate (us/s)	-1.54517353839E-01								Resid rate (us/s)	-5.57895E-06 +/- 6.0E-09
Total phase (deg)			246.1						Resid phase (deg)	113.4 +/- 19.2

ph/seg (deg) 52.1 45.1 Amplitude 0.184 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 81.6 78.7 Search (1024X32) 0.162 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.1 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.6 47.5 Inc. seg. avg. 0.198 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.31.18UHRL simultaneous interpolator

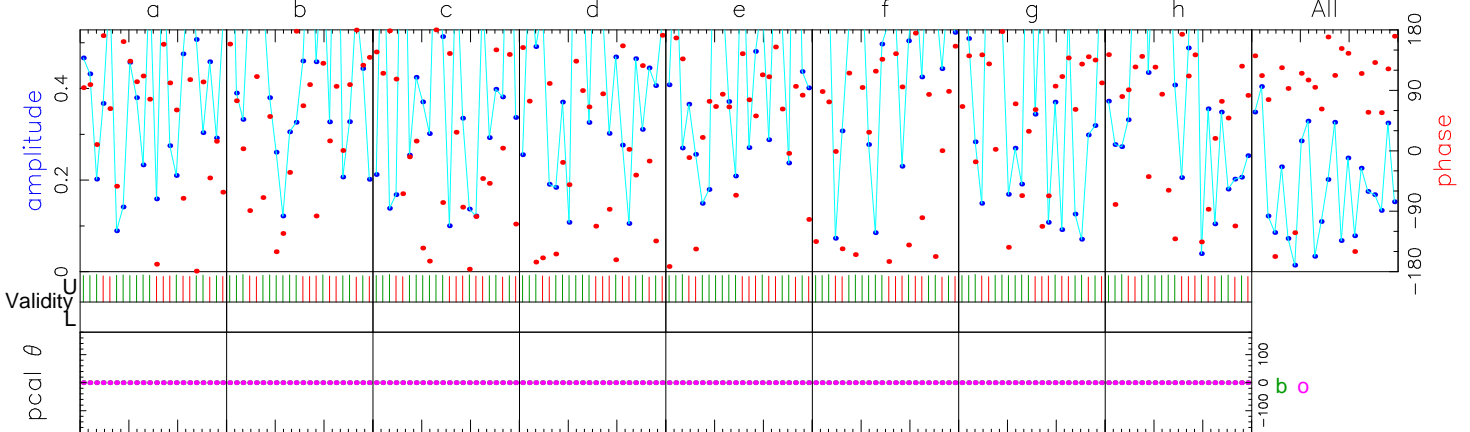
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bo
VLBA_BR - VLBA_OV, fgroup W, pol RL



Fringe quality 0
SNR 5.7
Int time 172.285
Amp 0.176
Phase 120.7
PFD 7.7e-01
Delays (us)
SBD -0.004555
MBD -0.002124
Fringe rate (Hz) 0.484011
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143640
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

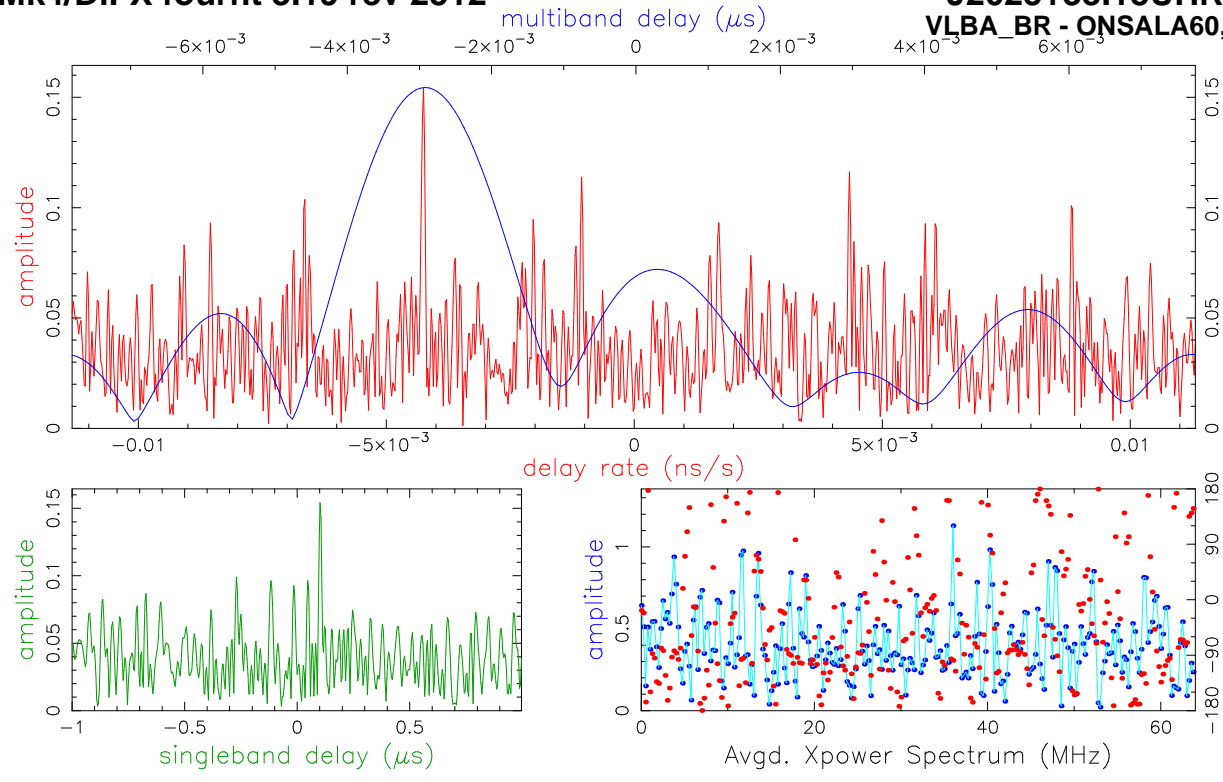


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	104.1	116.8	-136.4	154.0	100.8	144.8	96.0	126.4	Phase	120.7
	0.2	0.2	0.1	0.1	0.3	0.3	0.2	0.2	Ampl.	0.2
	392.8	218.0	188.1	280.0	256.0	22.9	248.7	508.2	Sbd box	255.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 7.39874314321E+02 Apriori delay (usec) 7.39876437991E+02 Resid mbdelay (usec) -2.12367E-03 +/- 1.9E-04
Sband delay (usec) 7.39871882991E+02 Apriori clock (usec) -2.1498138E+01 Resid sbdelay (usec) -4.55500E-03 +/- 1.5E-03
Phase delay (usec) 7.39876441882E+02 Apriori clockrate (us/s) -2.4300001E-07 Resid phdelay (usec) 3.89070E-06 +/- 6.5E-07
Delay rate (us/s) -1.54506155995E-01 Apriori rate (us/s) -1.54511774887E-01 Resid rate (us/s) 5.61889E-06 +/- 6.2E-09
Total phase (deg) 253.3 Apriori accel (us/s/s) 4.71041532066E-06 Resid phase (deg) 120.7 +/- 20.1

RMS Theor. Amplitude 0.176 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 48.2 47.1 Search (1024X32) 0.153 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 71.8 82.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 47.6 28.4 Inc. seg. avg. 0.155 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 41.5 49.6 Inc. frq. avg. 0.174 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 74.4 el 33.0 pa -50.7 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 1069.781 1269.881 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bo.W.40.18UHRL

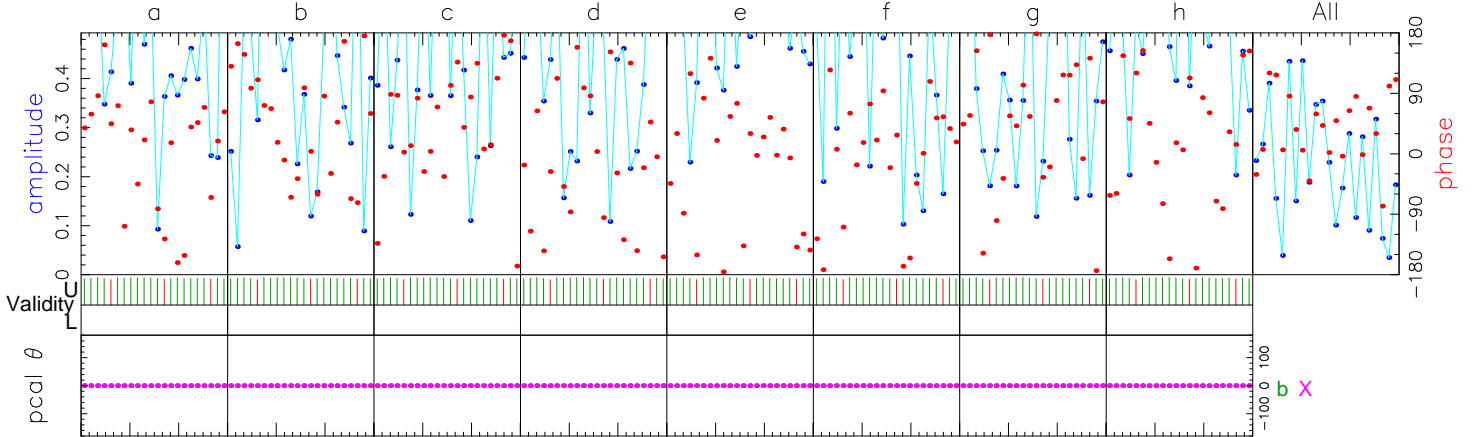


Fringe quality 0

SNR 5.6
 Int time 175.086
 Amp 0.164
 Phase 41.0
 PFD 9.1e-01
 Delays (us)
 SBD 0.102403
 MBD -0.002858
 Fringe rate (Hz)
 -0.366273
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143656
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

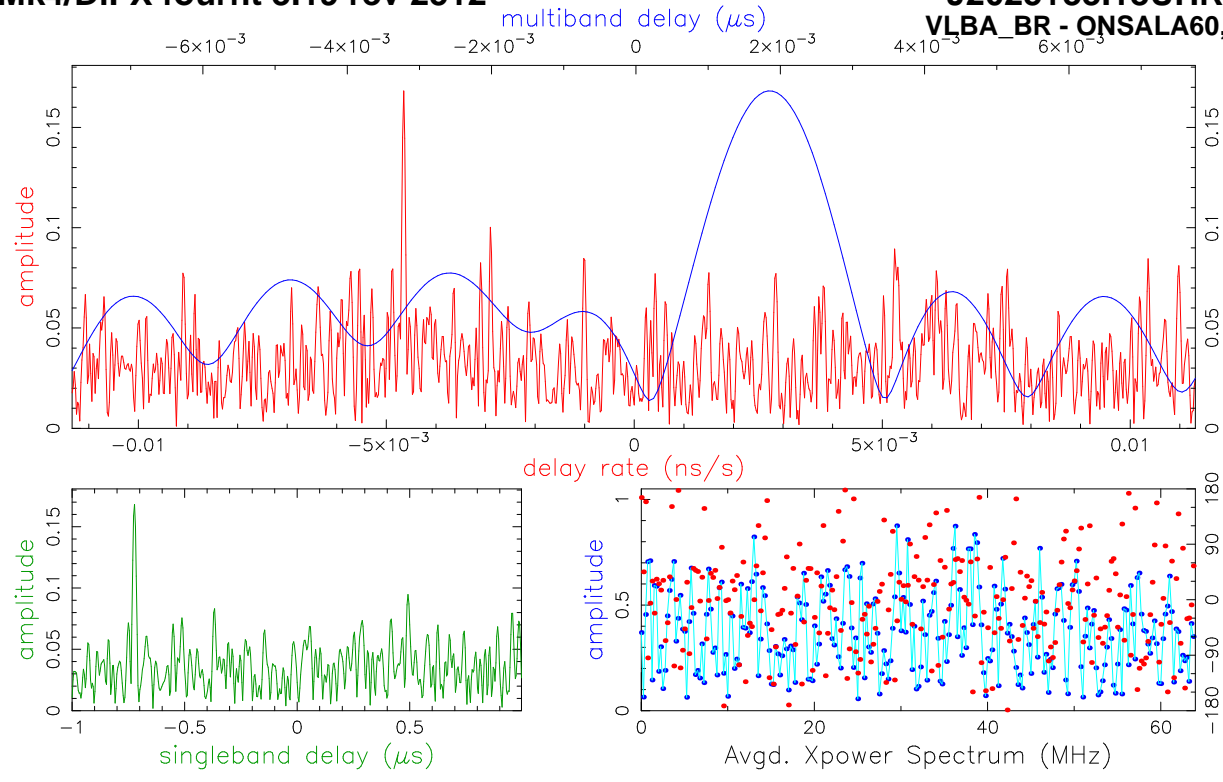
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.72410909084E+03									
Sband delay (usec)	-3.72411320494E+03									
Phase delay (usec)	-3.72421560611E+03									
Delay rate (us/s)	1.41151252038E+00									
Total phase (deg)			-111.9							
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)									41.0	+/- 20.4
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
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								

b: az 74.4 el 33.0 pa -50.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bX.W.110.18UHRL

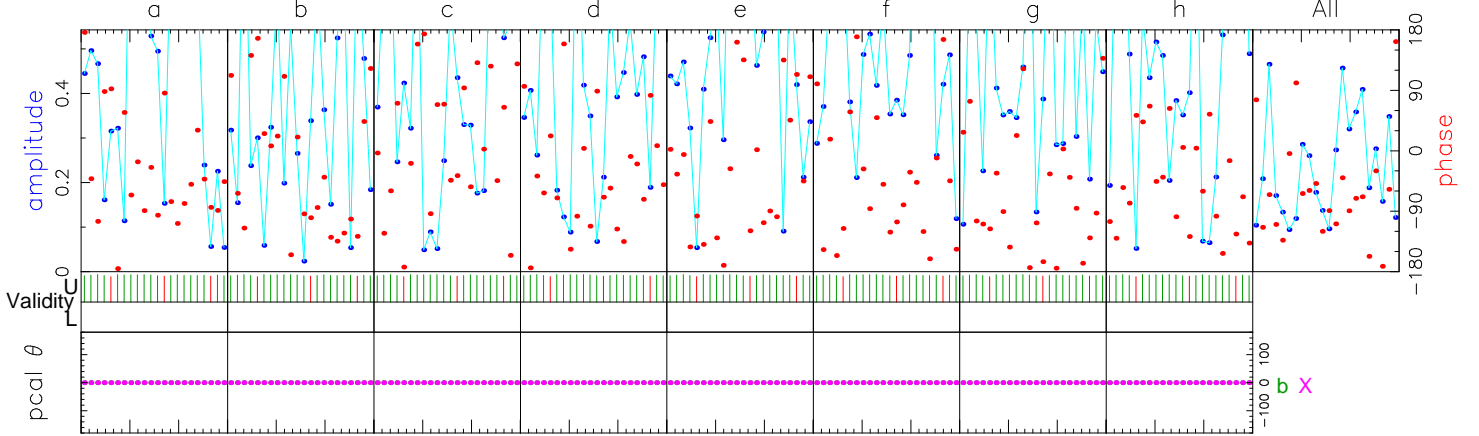


Fringe quality 0

SNR 6.1
 Int time 175.085
 Amp 0.181
 Phase -75.6
 PFD 1.3e-01
 Delays (us)
 SBD -0.723336
 MBD 0.001854
 Fringe rate (Hz)
 -0.400858
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143658
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



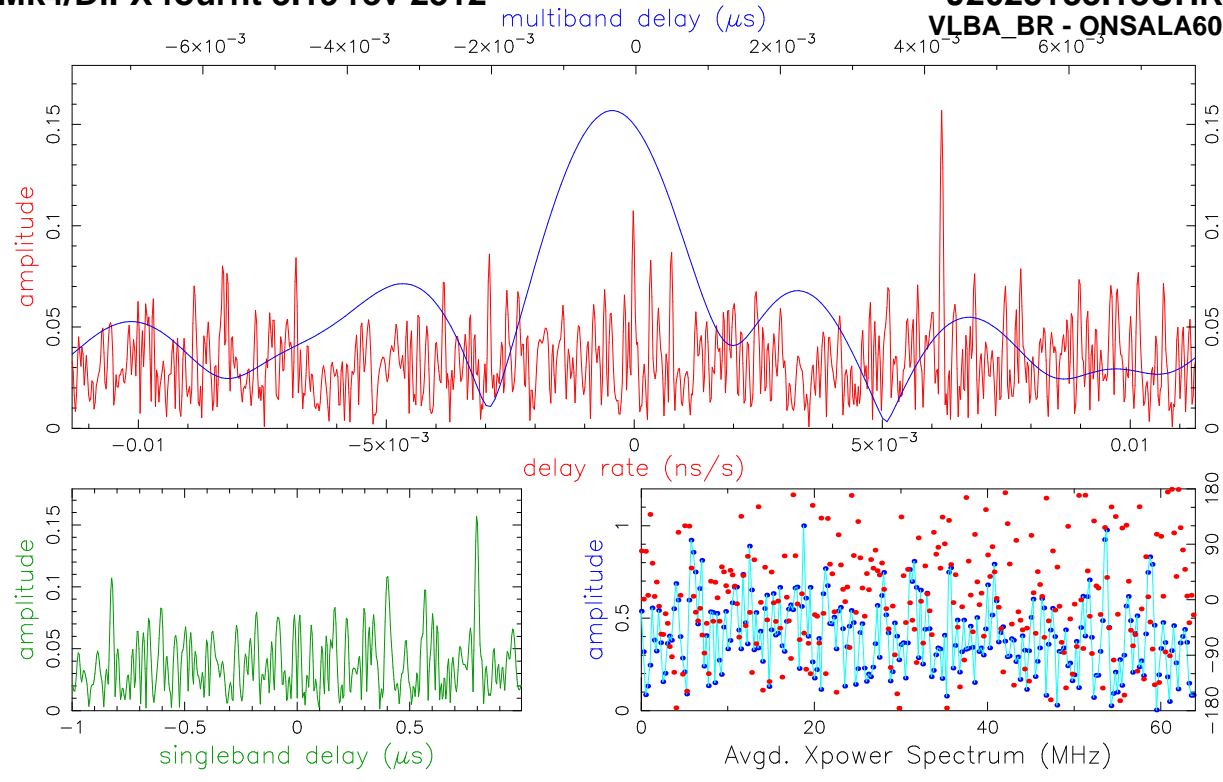
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.1	-110.9	-100.6	-53.2	-82.3	-81.9	-107.7	-60.6	Phase	-75.6
	0.3	0.1	0.0	0.2	0.1	0.2	0.2	0.3	Ampl.	0.2
	363.9	470.3	252.6	298.4	110.0	507.9	285.4	71.6	Sbd box	71.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.72493250361E+03		Apriori delay (usec)		-3.72421560744E+03		Resid mbdelay (usec)		1.85382E-03	+/- 1.8E-04
Sband delay (usec)	-3.72493894319E+03		Apriori clock (usec)		-4.2174080E+01		Resid sbdelay (usec)		-7.23336E-01	+/- 1.4E-03
Phase delay (usec)	-3.72421560987E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-2.43841E-06	+/- 6.1E-07
Delay rate (us/s)	1.41151211889E+00		Apriori rate (us/s)		1.41151677245E+00		Resid rate (us/s)		-4.65356E-06	+/- 5.8E-09
Total phase (deg)			Apriori accel (us/s/s)		1.34353510531E-05		Resid phase (deg)		-75.6	+/- 18.8

ph/seg (deg) 68.7 44.0 Search (1024X32) 0.163 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.0 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.0 26.6 Inc. seg. avg. 0.195 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.8 46.4 Inc. frq. avg. 0.173 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 74.4 el 33.0 pa -50.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

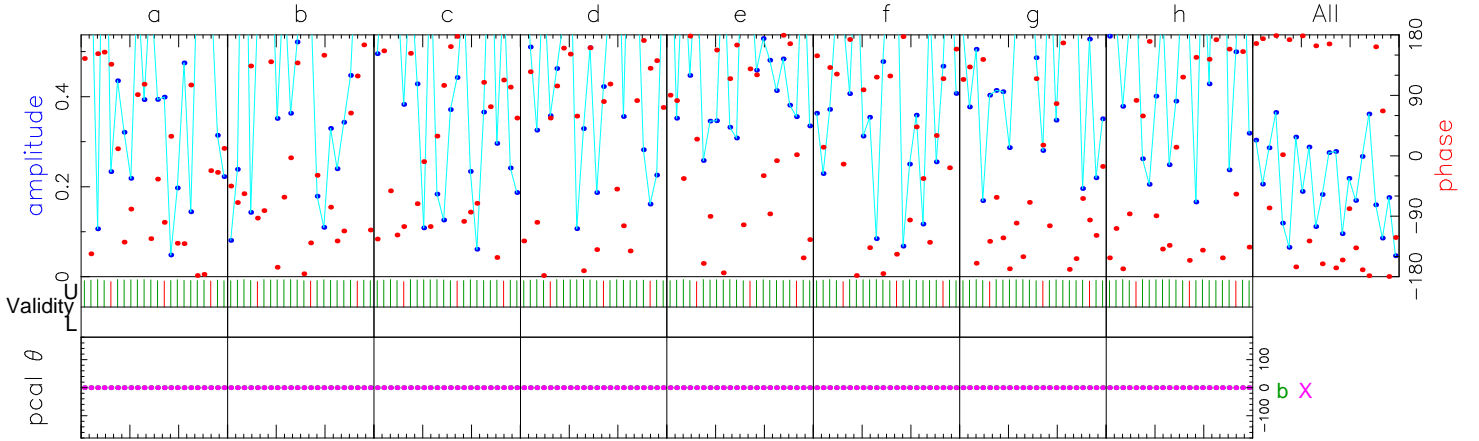
J2025+33.18UHRL, No0058, bX

VLBA_BR - ONSALA60, fgroup W, pol LL



Fringe quality 0
 SNR 5.7
 Int time 175.086
 Amp 0.179
 Phase -165.5
 PFD 7.5e-01
 Delays (us)
 SBD 0.797970
 MBD -0.000311
 Fringe rate (Hz) 0.534656
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143650
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

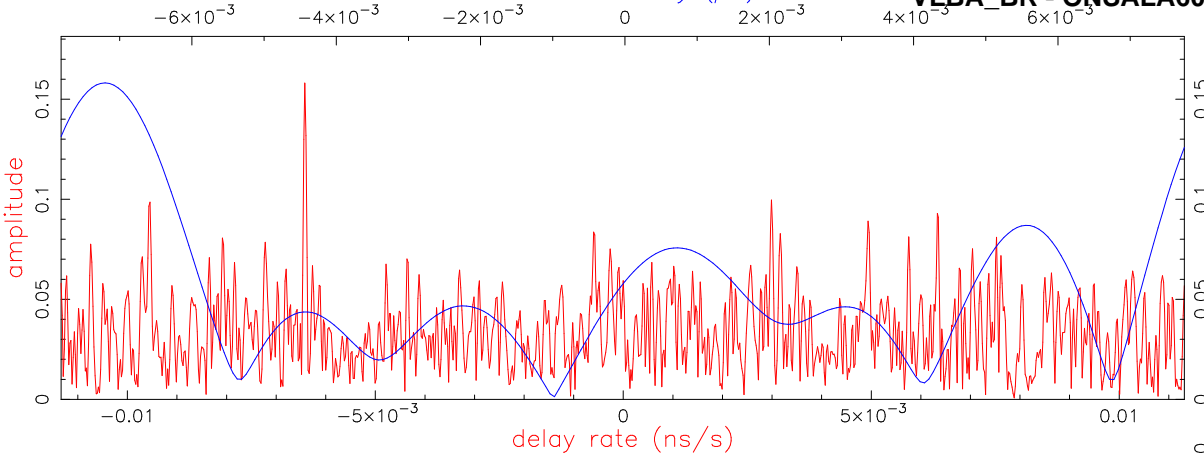
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-169.5	-127.8	-156.3	156.5	-174.9	157.7	-138.9	-163.4	Phase	-165.5
	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.3	Ampl.	0.2
	183.1	483.2	88.1	453.6	358.4	355.2	262.1	461.1	Sbd box	461.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.72341904378E+03		Apriori delay (usec)		-3.72421560744E+03		Resid mbdelay (usec)		-3.11348E-04	+/- 1.9E-04
Sband delay (usec)	-3.72341763719E+03		Apriori clock (usec)		-4.2174080E+01		Resid sbdelay (usec)		7.97970E-01	+/- 1.5E-03
Phase delay (usec)	-3.72421561277E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-5.33636E-06	+/- 6.5E-07
Delay rate (us/s)	1.41152297927E+00		Apriori rate (us/s)		1.41151677245E+00		Resid rate (us/s)		6.20682E-06	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.34353510531E-05		Resid phase (deg)		-165.5	+/- 20.1

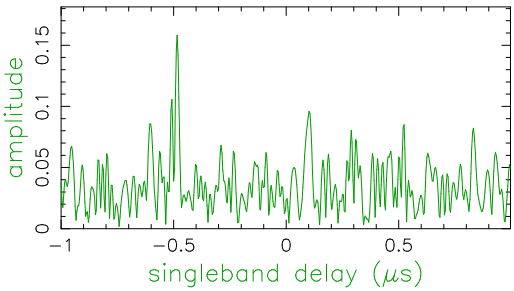
ph/seg (deg) 55.5 47.0 Search (1024X32) 0.152 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.7 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.2 28.4 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.7 49.5 Inc. frq. avg. 0.176 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 74.4 el 33.0 pa -50.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bX.W.83.18UHRL

multiband delay (μs)

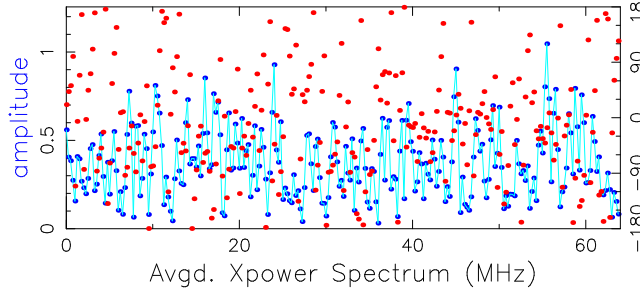


Fringe quality 0

SNR 5.7
 Int time 175.085
 Amp 0.181
 Phase -127.2
 PFD 7.2e-01
 Delays (us)
 SBD -0.484782
 MBD -0.007224
 Fringe rate (Hz)
 -0.554666
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

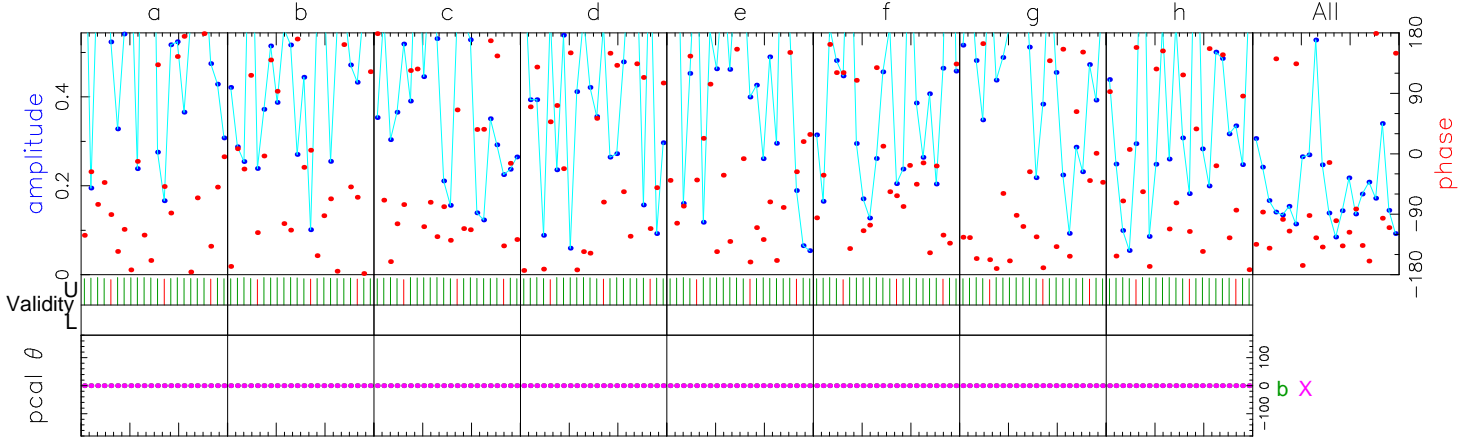


delay rate (ns/s)



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143651
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

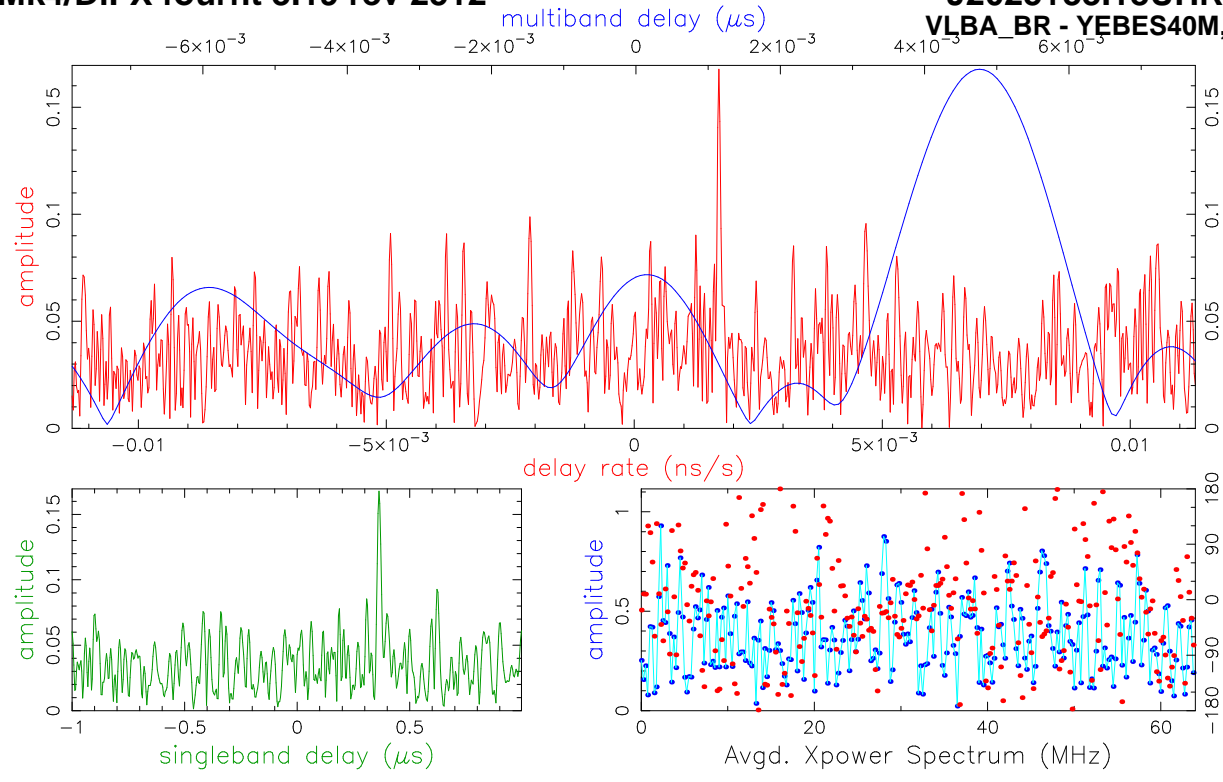


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-121.7	-154.3	-124.7	-172.7	-94.8	-118.4	-127.6	-149.8	Phase	-127.2
	0.4	0.1	0.2	0.1	0.2	0.3	0.1	0.1	Ampl.	0.2
	130.3	325.7	378.2	284.3	103.9	308.4	367.8	339.4	Sbd box	132.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.72470720688E+03	Apriori delay (usec)	-3.72421560744E+03	Resid mbdelay (usec)	-7.22445E-03	+/-	1.9E-04
Sband delay (usec)	-3.72470038969E+03	Apriori clock (usec)	-4.2174080E+01	Resid sbdelay (usec)	-4.84782E-01	+/-	1.5E-03
Phase delay (usec)	-3.72421561154E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-4.10118E-06	+/-	6.5E-07
Delay rate (us/s)	1.41151033332E+00	Apriori rate (us/s)	1.41151677245E+00	Resid rate (us/s)	-6.43913E-06	+/-	6.2E-09
Total phase (deg)	-280.0	Apriori accel (us/s/s)	1.34353510531E-05	Resid phase (deg)	-127.2	+/-	20.0

ph/seg (deg)	RMS 48.6	Theor. 46.9	Amplitude Search (1024X32)	0.153	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.9	81.9	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	27.3	28.3	Inc. seg. avg.	0.173	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	54.3	49.4	Inc. frq. avg.	0.172	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 74.4 el 33.0 pa -50.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bX.W.89.18UHRL

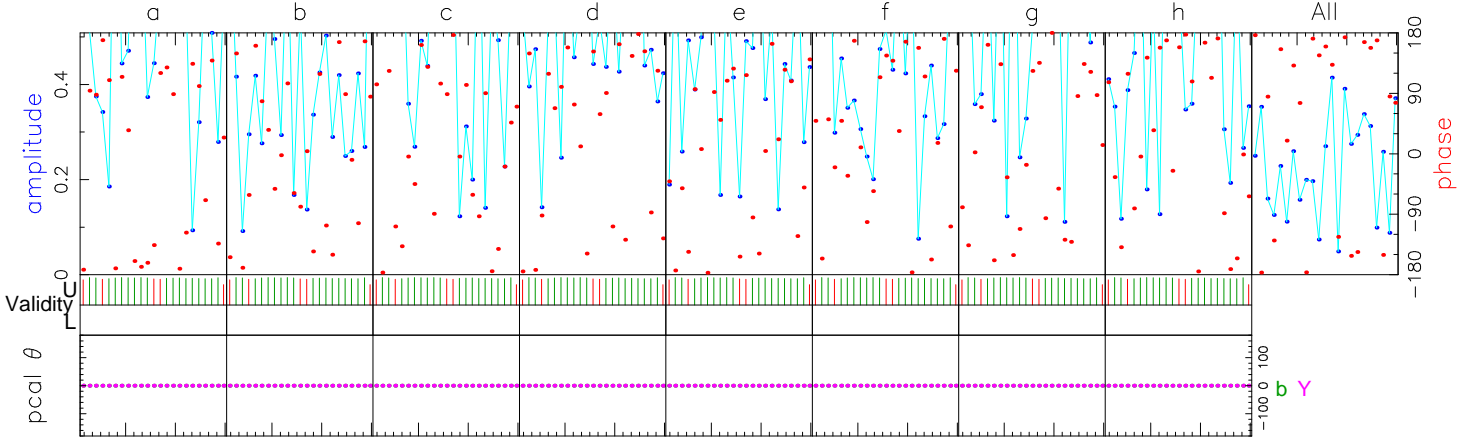


Fringe quality 0

SNR 6.0
 Int time 169.724
 Amp 0.170
 Phase 162.2
 PFD 2.4e-01
 Delays (us)
 SBD 0.363805
 MBD 0.004776
 Fringe rate (Hz)
 0.146151
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143657
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



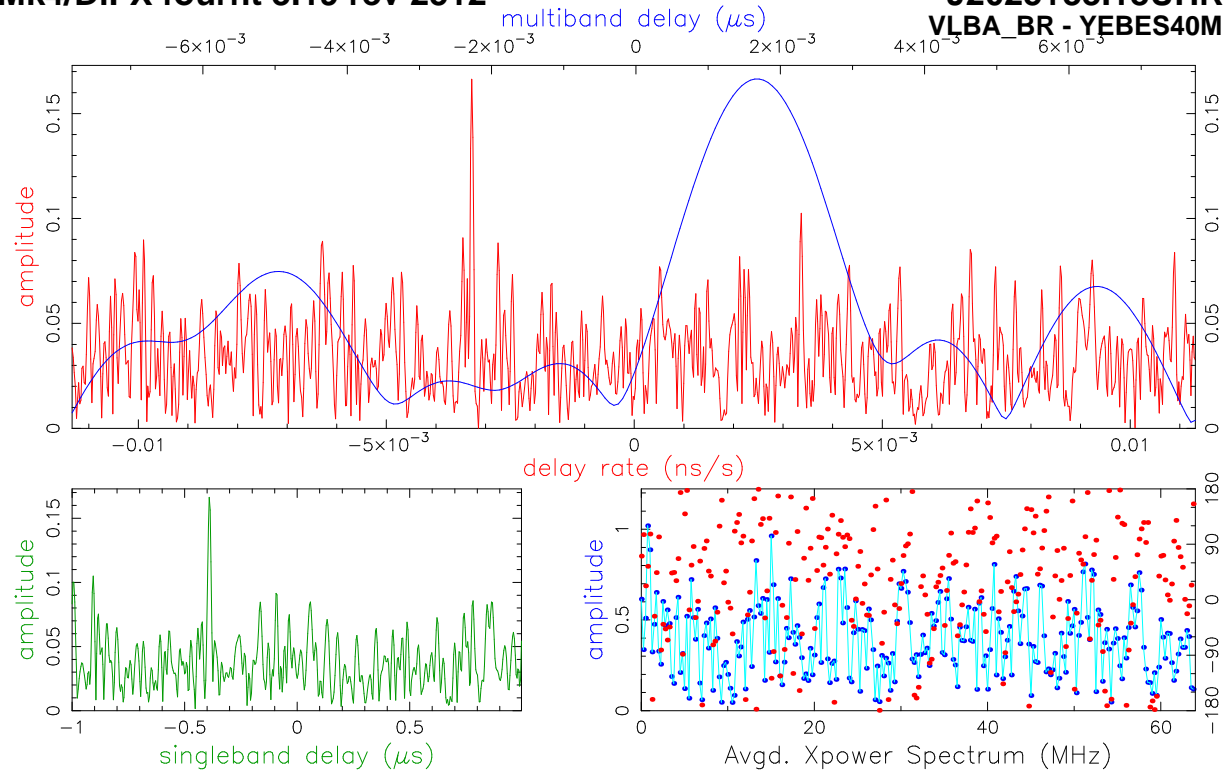
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.24744110704E+03	Apriori delay (usec)	-6.24780525814E+03	Resid mbdelay (usec)	4.77609E-03	+/-	1.8E-04
Sband delay (usec)	-6.24744145339E+03	Apriori clock (usec)	-1.3380808E+01	Resid sbdelay (usec)	3.63805E-01	+/-	1.4E-03
Phase delay (usec)	-6.24780525291E+03	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	5.23153E-06	+/-	6.2E-07
Delay rate (us/s)	1.47574268290E+00	Apriori rate (us/s)	1.47574098623E+00	Resid rate (us/s)	1.69667E-06	+/-	6.1E-09
Total phase (deg)	-174.7	Apriori accel (us/s/s)	3.91052162533E-05	Resid phase (deg)	162.2	+/-	19.1

ph/seg (deg)	54.2	Theor.	45.9	Amplitude	0.170 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	71.8	Search (1024X32)	0.162	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	17.4	Inc. seg. avg.	0.174	Inc. frq. avg.	0.156	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	43.0	Inc. frq. avg.	0.156			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 74.4 el 33.0 pa -50.7 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10137.832 2809.363 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bY.W.116.18UHRL

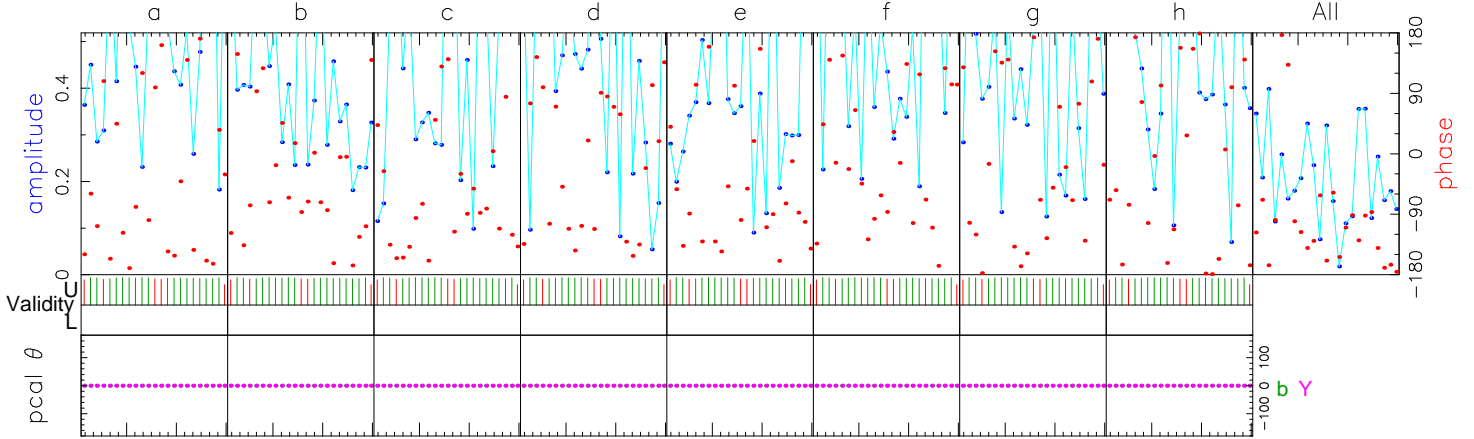


Fringe quality 0

SNR 6.0
 Int time 169.725
 Amp 0.173
 Phase -130.6
 PFD 2.9e-01
 Delays (us)
 SBD -0.389804
 MBD 0.001729
 Fringe rate (Hz)
 -0.282210
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143645
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



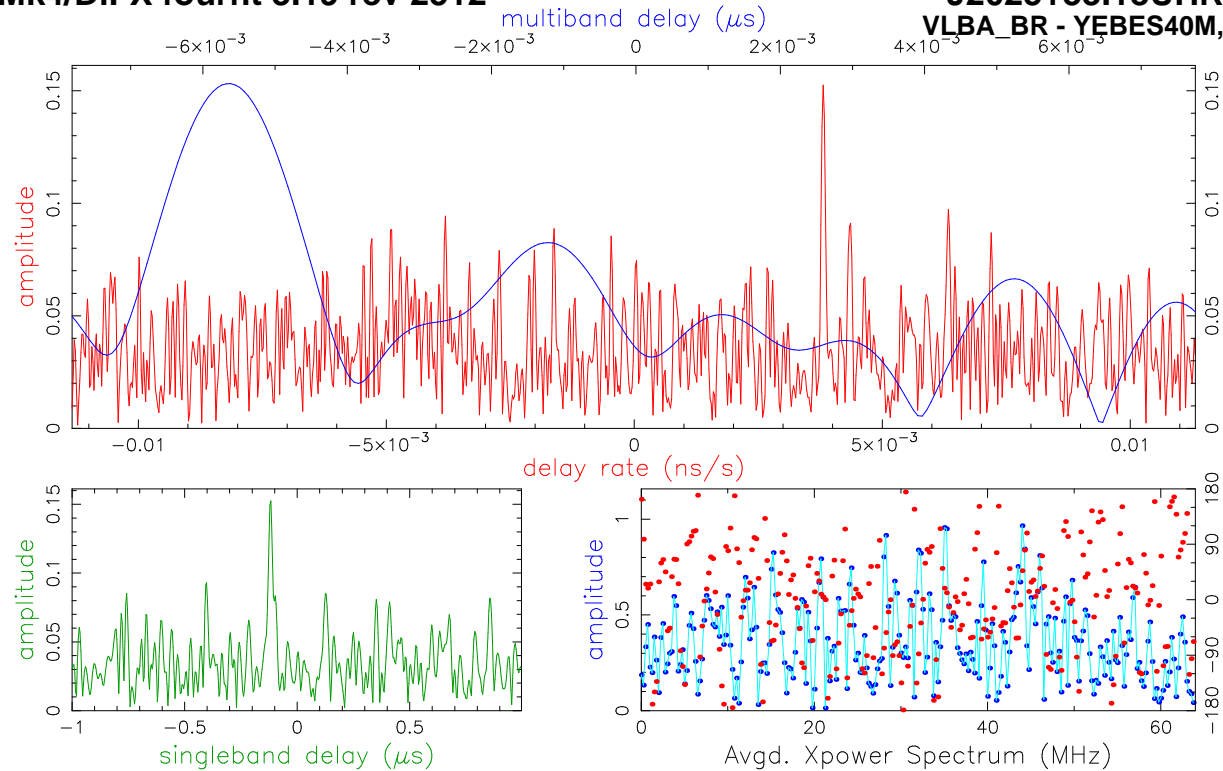
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-152.3	-82.6	-127.2	-147.9	-110.5	-122.1	-145.8	-147.0	Phase	-130.6
	0.3	0.1	0.3	0.1	0.3	0.1	0.1	0.2	Ampl.	0.2
	495.2	250.0	250.0	342.6	325.6	24.6	170.0	24.2	Sbd box	157.2
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.24819415371E+03	Apriori delay (usec)	-6.24780525814E+03	Resid mbdelay (usec)	1.72943E-03	+/-	1.8E-04
Sband delay (usec)	-6.24819506239E+03	Apriori clock (usec)	-1.3380808E+01	Resid sbdelay (usec)	-3.89804E-01	+/-	1.4E-03
Phase delay (usec)	-6.24780526235E+03	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	-4.21168E-06	+/-	6.2E-07
Delay rate (us/s)	1.47573771004E+00	Apriori rate (us/s)	1.47574098623E+00	Resid rate (us/s)	-3.27618E-06	+/-	6.1E-09
Total phase (deg)	-107.5	Apriori accel (us/s/s)	3.91052162533E-05	Resid phase (deg)	-130.6	+/-	19.3

ph/seg (deg)	42.4	Theor.	46.2	Amplitude	0.173 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	65.0		80.6	Search (1024X32)	0.166	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	26.0		27.2	Inc. seg. avg.	0.164	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	35.4		47.5	Inc. frq. avg.	0.166	Sample rate (MSamp/s):	128	ion window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite

b: az 74.4 el 33.0 pa -50.7 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10137.832 2809.363 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bY.W.64.18UHRL

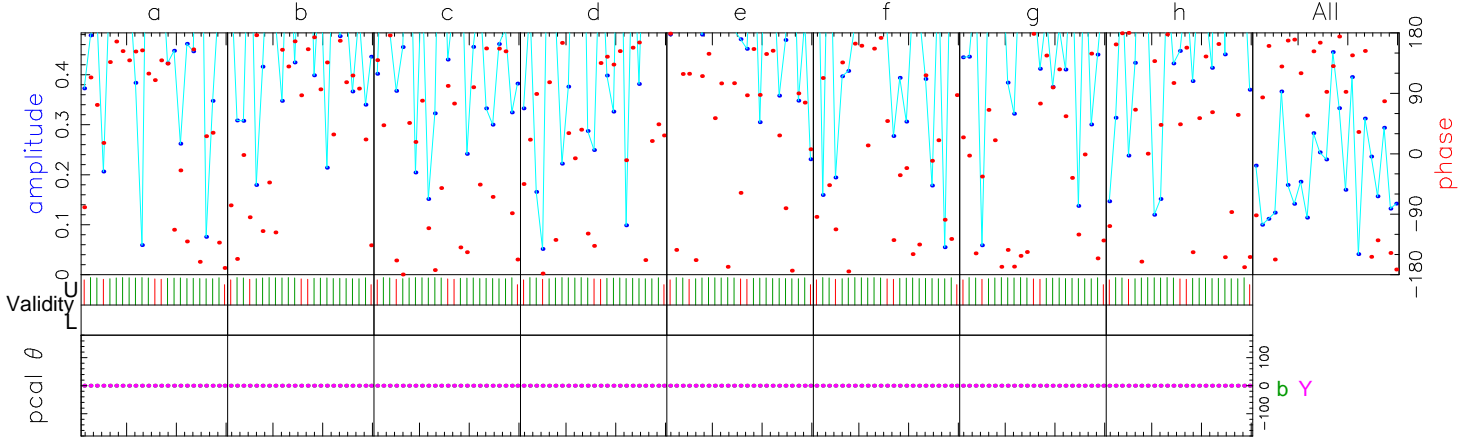


Fringe quality 0

SNR 5.5
 Int time 169.724
 Amp 0.161
 Phase 148.8
 PFD 9.9e-01
 Delays (us)
 SBD -0.118589
 MBD -0.005743
 Fringe rate (Hz)
 0.329430
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143652
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

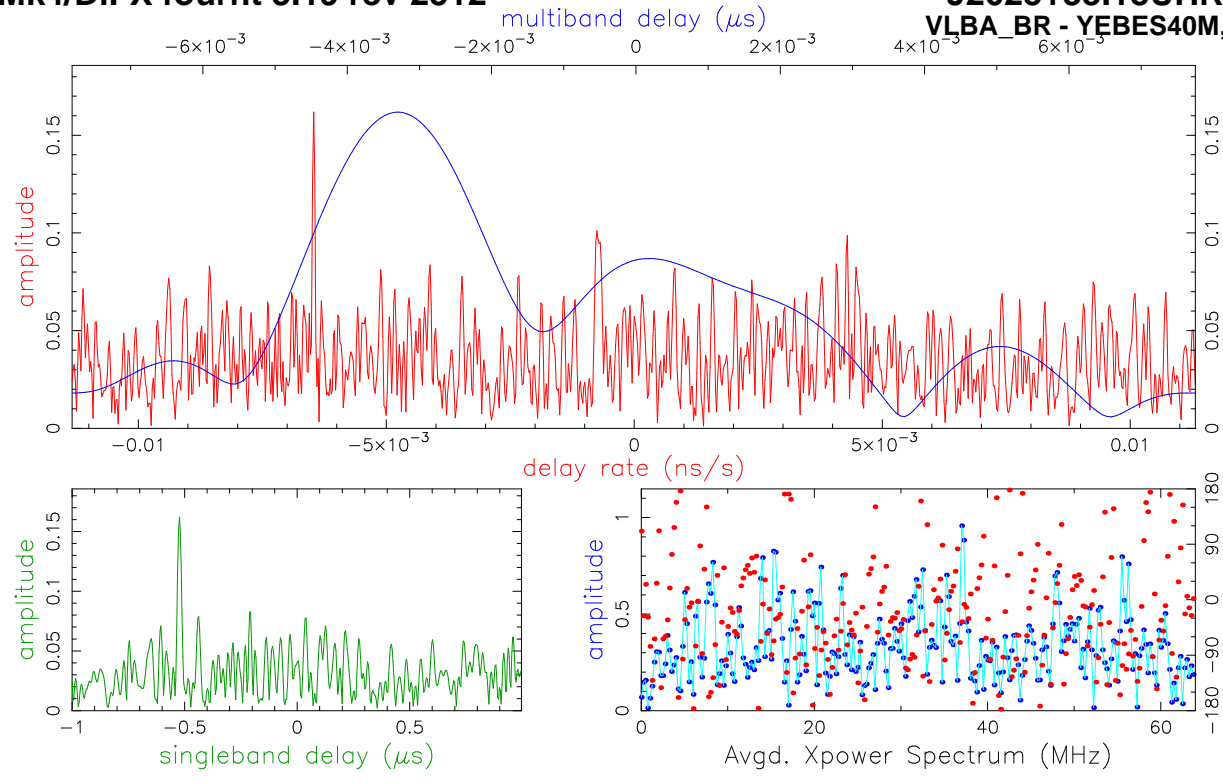


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	154.0	149.0	142.2	98.0	138.6	-151.8	174.5	160.1	Phase	148.8
b	0.3	0.1	0.1	0.2	0.3	0.1	0.1	0.2	Ampl.	0.2
Y	345.3	140.5	62.7	348.6	226.8	437.0	330.2	233.6	Sbd box	226.6
b:Y	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
b:Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.24792037569E+03		Apriori delay (usec)		-6.24780525814E+03		Resid mbdelay (usec)		-5.74255E-03	+/- 2.0E-04
Sband delay (usec)	-6.24792384764E+03		Apriori clock (usec)		-1.3380808E+01		Resid sbdelay (usec)		-1.18589E-01	+/- 1.6E-03
Phase delay (usec)	-6.24780525334E+03		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		4.79898E-06	+/- 6.7E-07
Delay rate (us/s)	1.47574481058E+00		Apriori rate (us/s)		1.47574098623E+00		Resid rate (us/s)		3.82435E-06	+/- 6.7E-09
Total phase (deg)			Apriori accel (us/s/s)		3.91052162533E-05		Resid phase (deg)		148.8	+/- 20.9

	RMS	Theor.	Amplitude	0.161 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	56.5	50.1	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	77.9	87.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	34.3	29.6	Inc. seg. avg.	0.164	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	53.0	51.6	Inc. frq. avg.	0.154	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00	

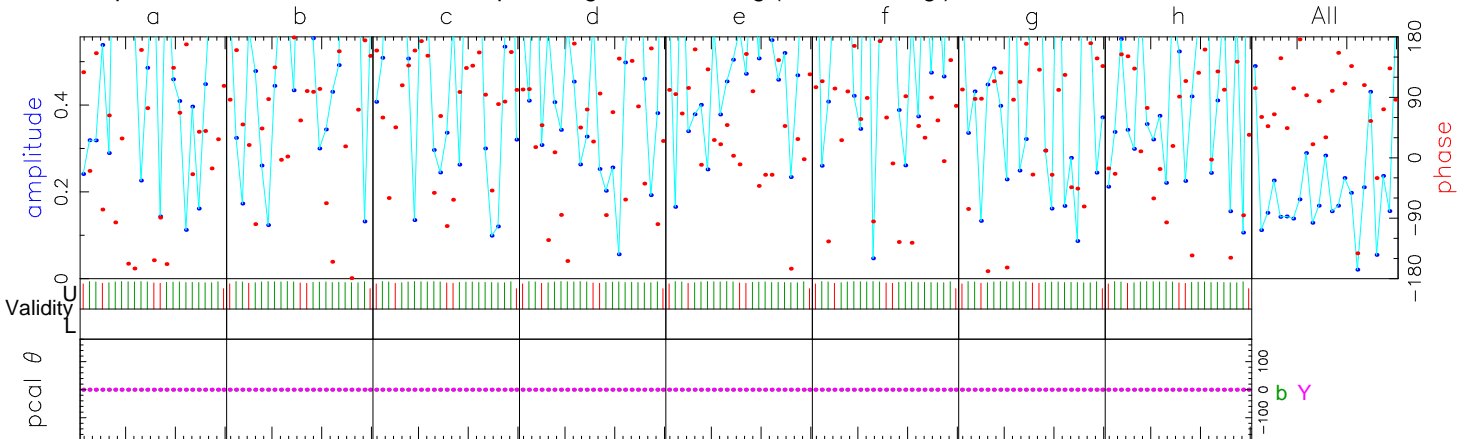
b: az 74.4 el 33.0 pa -50.7 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10137.832 2809.363 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bY.W.92.18UHRL



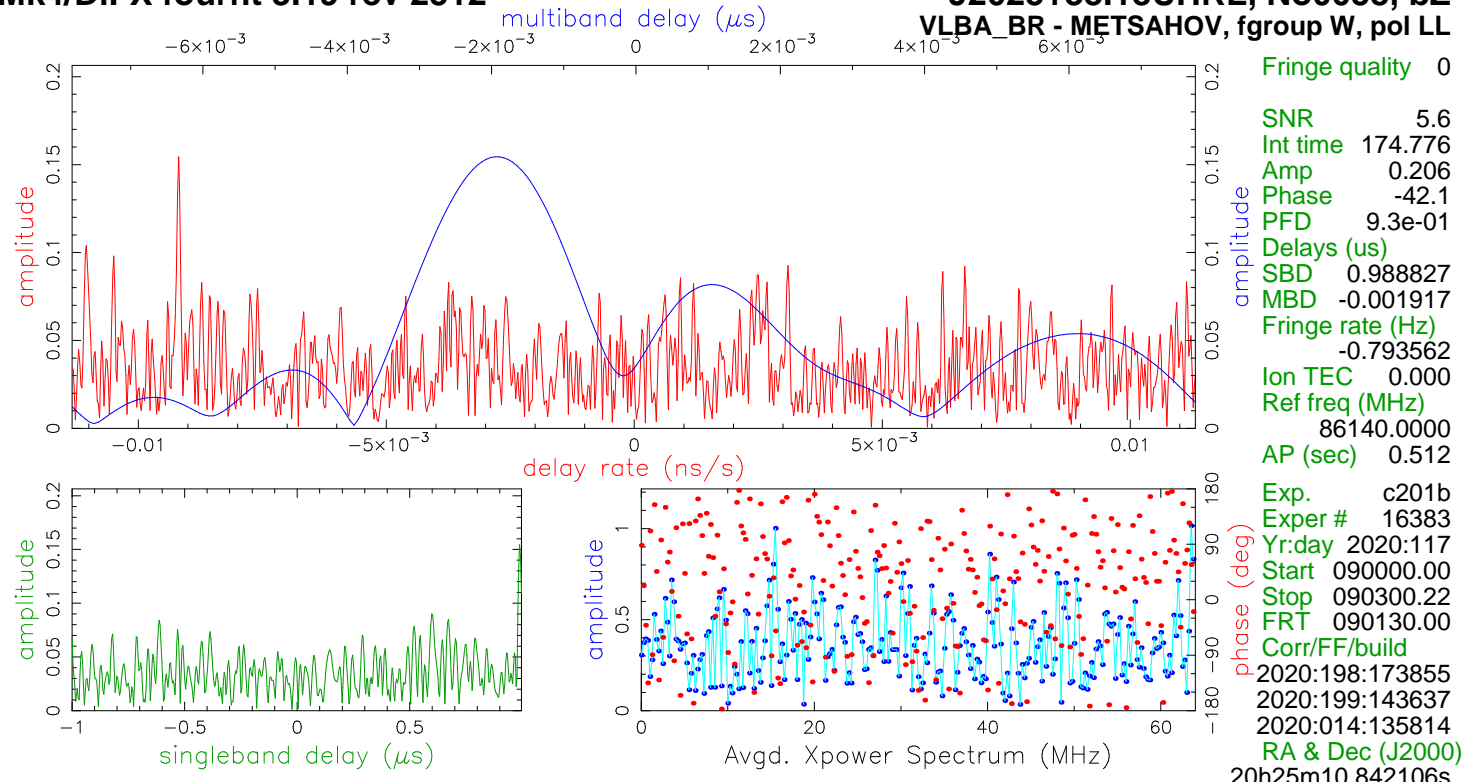
Fringe quality 0
 SNR 5.8
 Int time 169.725
 Amp 0.186
 Phase 88.9
 PFD 6.3e-01
 Delays (us)
 SBD -0.523290
 MBD -0.003300
 Fringe rate (Hz)
 -0.557115
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143654
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.24832418359E+03									
Sband delay (usec)	-6.24832854814E+03									
Phase delay (usec)	-6.24780525527E+03									
Delay rate (us/s)	1.47573451867E+00									
Total phase (deg)			-248.0							
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): 128										
Data rate(Mb/s): 2048										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 54.1 47.6 Search (1024X32) 0.158 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.7 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.3 28.1 Inc. seg. avg. 0.177 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.8 49.0 Inc. frq. avg. 0.191 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 74.4 el 33.0 pa -50.7 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10137.832 2809.363 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bY.W.99.18UHRL



Fringe quality 0

SNR 5.6

Int time 174.776

Amp 0.206

Phase -42.1

PFD 9.3e-01

Delays (us)

SBD 0.988827

MBD -0.001917

Fringe rate (Hz)

-0.793562

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 090000.00

Stop 090300.22

FRT 090130.00

Corr/FF/build

2020:198:173855

2020:199:143637

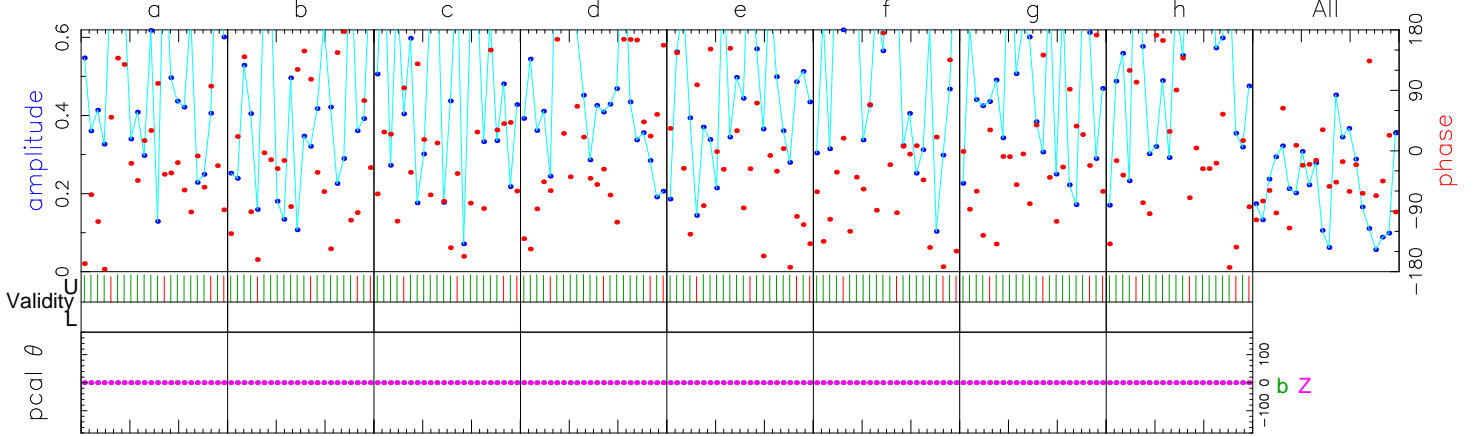
2020:014:135814

RA & Dec (J2000)

20h25m10.842106s

+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



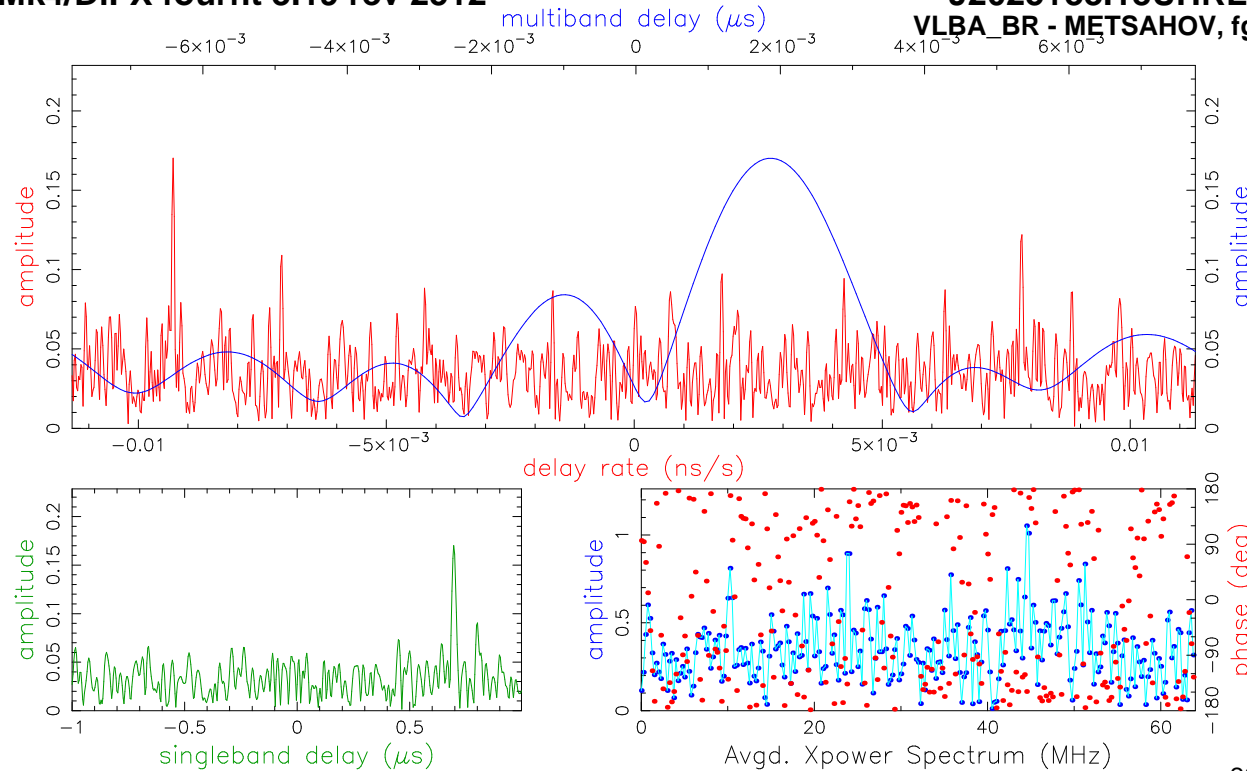
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-31.1	-61.5	-21.7	-63.9	-45.7	-76.9	-33.1	-17.8	Phase	-42.1
	0.2	0.2	0.3	0.1	0.2	0.3	0.4	0.2	Ampl.	0.2
	410.8	171.8	100.4	409.6	198.1	473.6	239.8	142.3	Sbd box	510.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	

Group delay (usec)(sbd)	-1.87714392785E+03	Apriori delay (usec)	-1.87812638592E+03	Resid mbdelay (usec)	-1.91694E-03	+/-	1.9E-04
Sband delay (usec)	-1.87713755867E+03	Apriori clock (usec)	-1.2901485E+00	Resid sbdelay (usec)	9.88827E-01	+/-	1.5E-03
Phase delay (usec)	-1.87812638728E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-1.35883E-06	+/-	6.6E-07
Delay rate (us/s)	1.43239434779E+00	Apriori rate (us/s)	1.43240356025E+00	Resid rate (us/s)	-9.21246E-06	+/-	6.3E-09
Total phase (deg)	-360.0	Apriori accel (us/s/s)	2.23065528110E-06	Resid phase (deg)	-42.1	+/-	20.5

ph/seg (deg)	57.7	Theor.	48.0	Amplitude	0.206 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	82.4		83.8	Search (1024X32)	0.153	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	23.4		29.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	42.4		50.6	Inc. seg. avg.	0.219	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.195	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

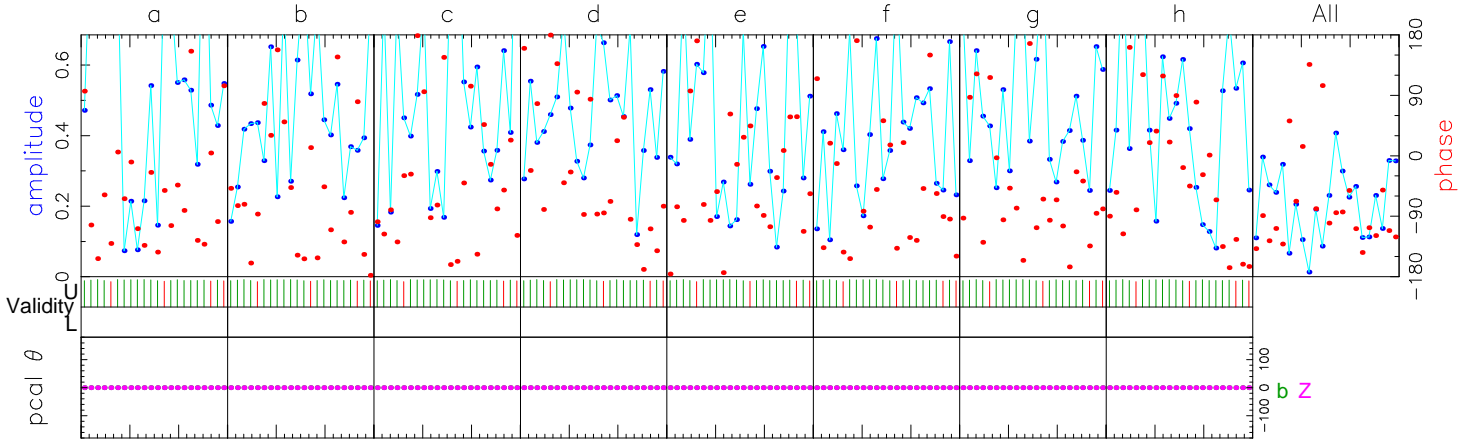
b: az 74.4 el 33.0 pa -50.7 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -9868.560 -738.115 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bZ.W.30.18UHRL



Fringe quality 0
SNR 6.2
Int time 174.776
Amp 0.229
Phase -99.5
PFD 9.5e-02
Delays (us)
SBD 0.695666
MBD 0.001874
Fringe rate (Hz)
-0.802494
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143639
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

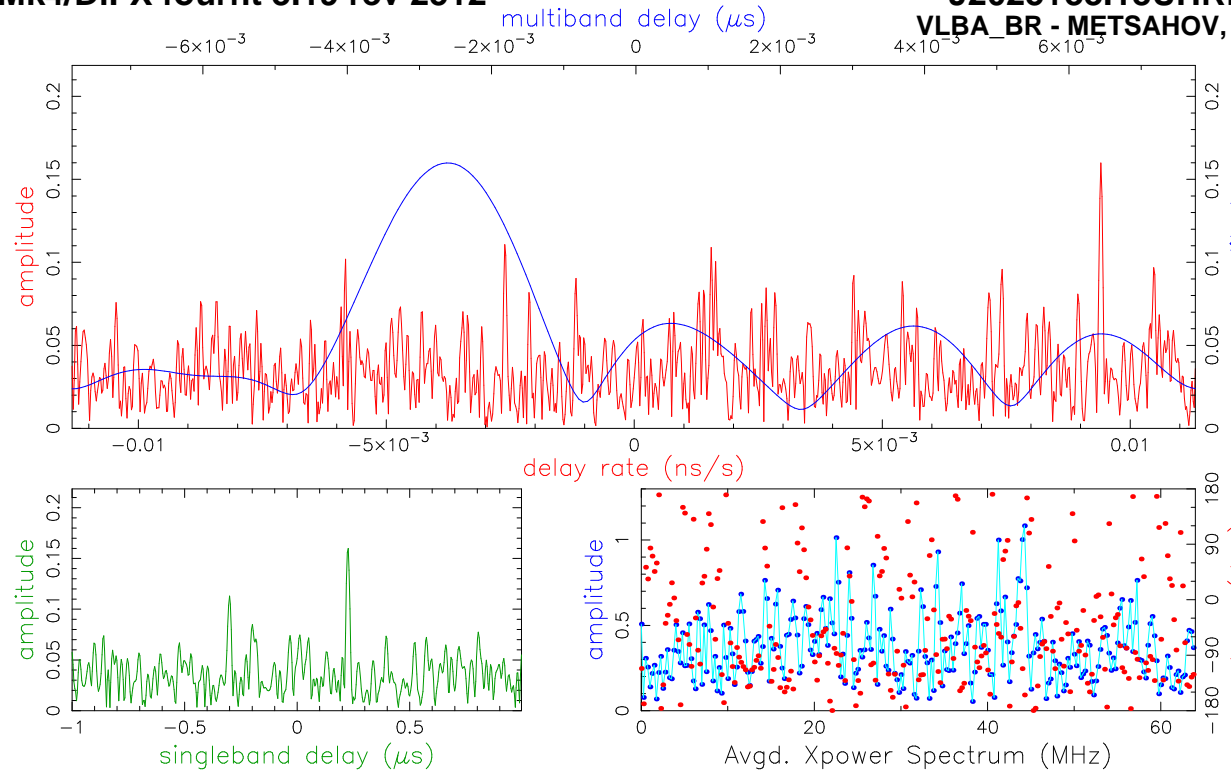


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.3	-132.5	-115.9	-75.2	-62.1	-104.9	-98.2	-130.5	Phase	-99.5
	0.4	0.2	0.3	0.2	0.2	0.3	0.4	0.1	Ampl.	0.2
	435.0	192.8	436.8	6.4	441.0	82.2	435.3	250.3	Sbd box	435.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.87743701166E+03	Apriori delay (usec)	-1.87812638592E+03	Resid mbdelay (usec)	1.87425E-03	+/-	1.8E-04
Sband delay (usec)	-1.87743071942E+03	Apriori clock (usec)	-1.2901485E+08	Resid sbdelay (usec)	6.95666E-01	+/-	1.4E-03
Phase delay (usec)	-1.87812638913E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-3.20755E-06	+/-	6.0E-07
Delay rate (us/s)	1.43239424410E+00	Apriori rate (us/s)	1.43240356025E+00	Resid rate (us/s)	-9.31616E-06	+/-	5.8E-09
Total phase (deg)	-57.3	Apriori accel (us/s/s)	2.23065528110E-06	Resid phase (deg)	-99.5	+/-	18.6

ph/seg (deg)	64.1	Theor.	43.7	Amplitude	0.229 +/- 0.037	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	64.1		76.2	Search (1024X32)	0.163	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	27.0		26.3	Inc. seg. avg.	0.217	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.1		46.0	Inc. frq. avg.	0.220	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 74.4 el 33.0 pa -50.7 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -9868.560 -738.115 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bZ.W.38.18UHRL

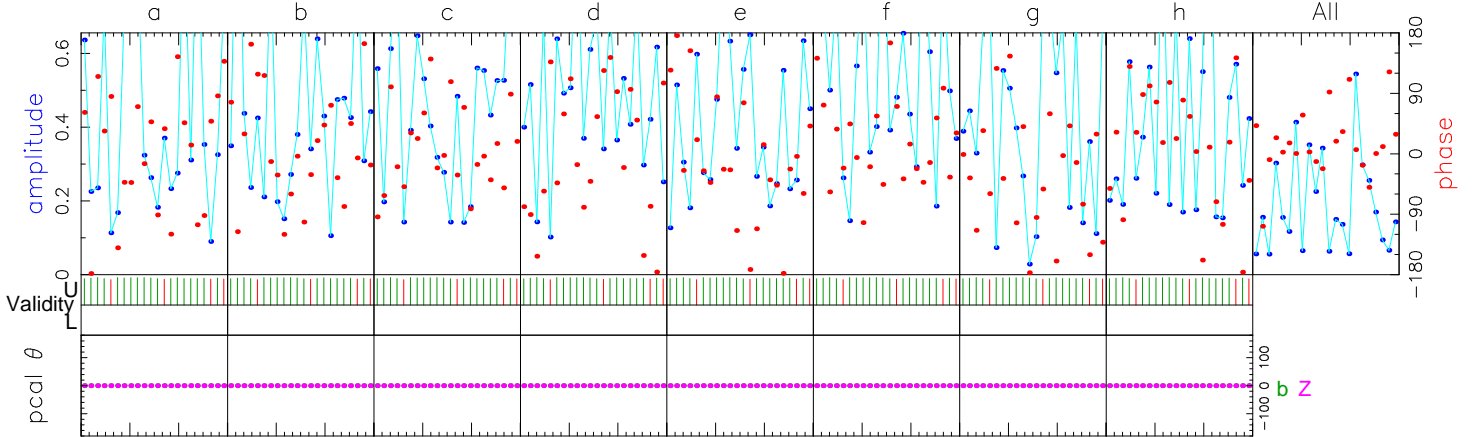


Fringe quality 0

SNR 5.8
 Int time 174.776
 Amp 0.219
 Phase 1.5
 PFD 4.8e-01
 Delays (us)
 SBD 0.225178
 MBD -0.002641
 Fringe rate (Hz)
 0.812451
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143643
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



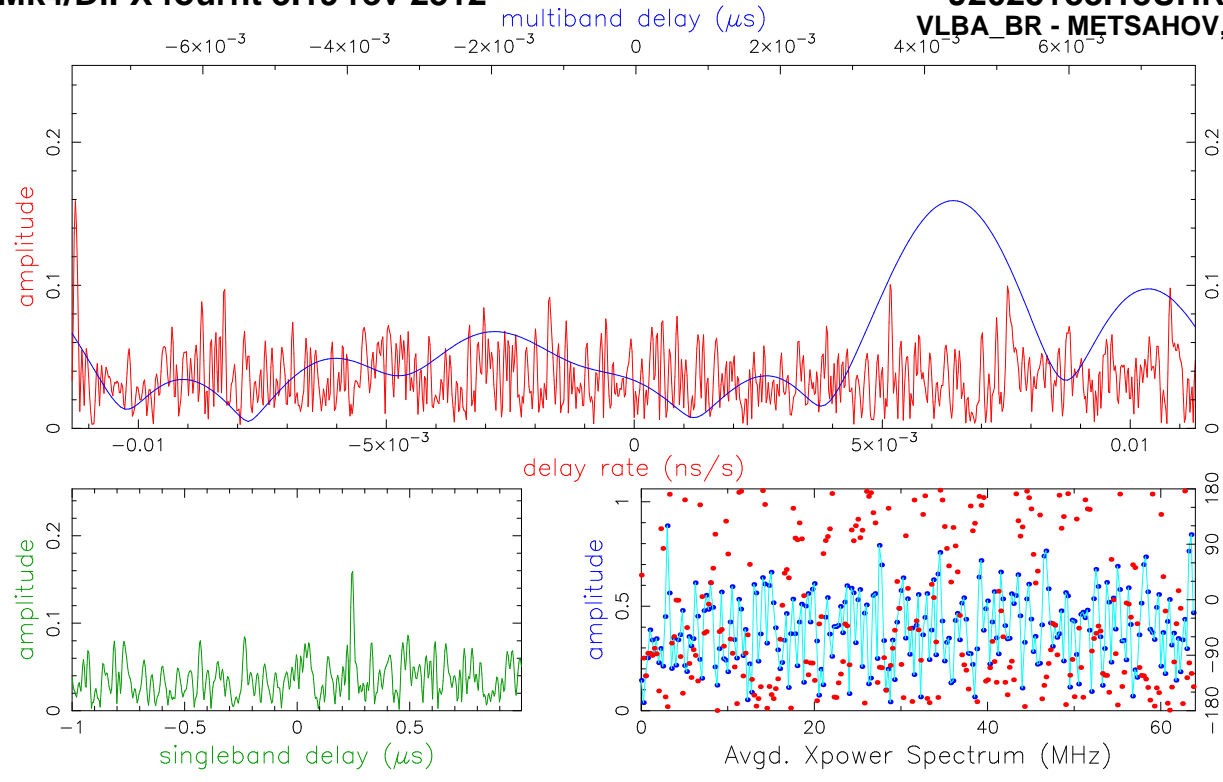
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.87789465183E+03	Apriori delay (usec)	-1.87812638592E+03	Resid mbdelay (usec)	-2.64091E-03	+/-	1.9E-04
Sband delay (usec)	-1.87790120792E+03	Apriori clock (usec)	-1.2901485E+00	Resid sbdelay (usec)	2.25178E-01	+/-	1.5E-03
Phase delay (usec)	-1.87812638587E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	4.89321E-08	+/-	6.3E-07
Delay rate (us/s)	1.43241299201E+00	Apriori rate (us/s)	1.43240356025E+00	Resid rate (us/s)	9.43175E-06	+/-	6.1E-09
Total phase (deg)	-316.3	Apriori accel (us/s/s)	2.23065528110E-06	Resid phase (deg)	1.5	+/-	19.6

ph/seg (deg)	51.5	Theor.	46.0	Amplitude	0.219 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	83.6	Search (1024X32)	0.159	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	28.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	37.3	Inc. seg. avg.	0.197	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.212	Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00	

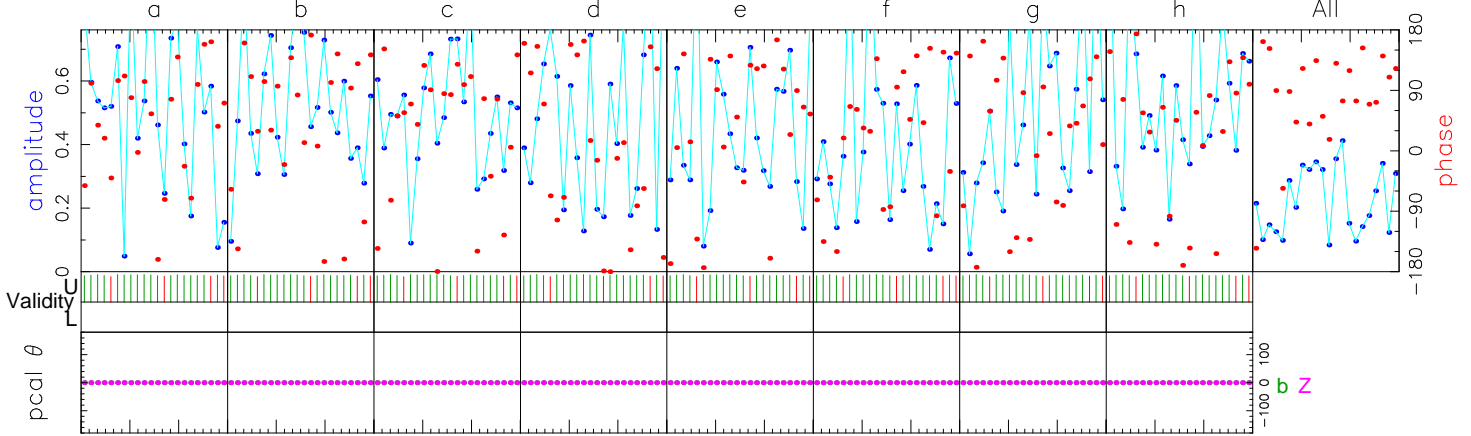
b: az 74.4 el 33.0 pa -50.7 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -9868.560 -738.115 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bZ.W.55.18UHRL



Fringe quality 0
SNR 5.9
Int time 174.776
Amp 0.254
Phase 101.4
PFD 4.3e-01
Delays (us)
SBD 0.244433
MBD 0.004354
Fringe rate (Hz)
-0.971590
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143647
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.87788765669E+03	Apriori delay (usec)	-1.87812638592E+03	Resid mbdelay (usec)	4.35423E-03	+/-	1.8E-04
Sband delay (usec)	-1.87788195267E+03	Apriori clock (usec)	-1.2901485E+08	Resid sbdelay (usec)	2.44433E-01	+/-	1.5E-03
Phase delay (usec)	-1.87812638265E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	3.27100E-06	+/-	6.3E-07
Delay rate (us/s)	1.43239228106E+00	Apriori rate (us/s)	1.43240356025E+00	Resid rate (us/s)	-1.12792E-05	+/-	6.1E-09
Total phase (deg)	-216.4	Apriori accel (us/s/s)	2.23065528110E-06	Resid phase (deg)	101.4	+/-	19.5

ph/seg (deg)	56.6	RMS	45.8	Theor.	0.254 +/- 0.043	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.0	Search (1024X32)	0.155	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	42.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	38.6	Inc. seg. avg.	0.267	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.249	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 74.4 el 33.0 pa -50.7 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -9868.560 -738.115 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bZ.W.72.18UHRL