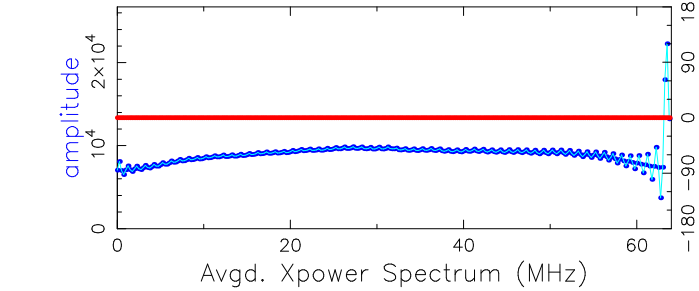
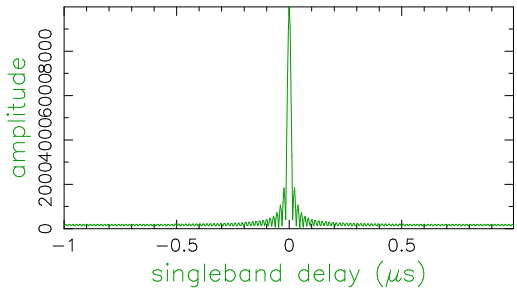


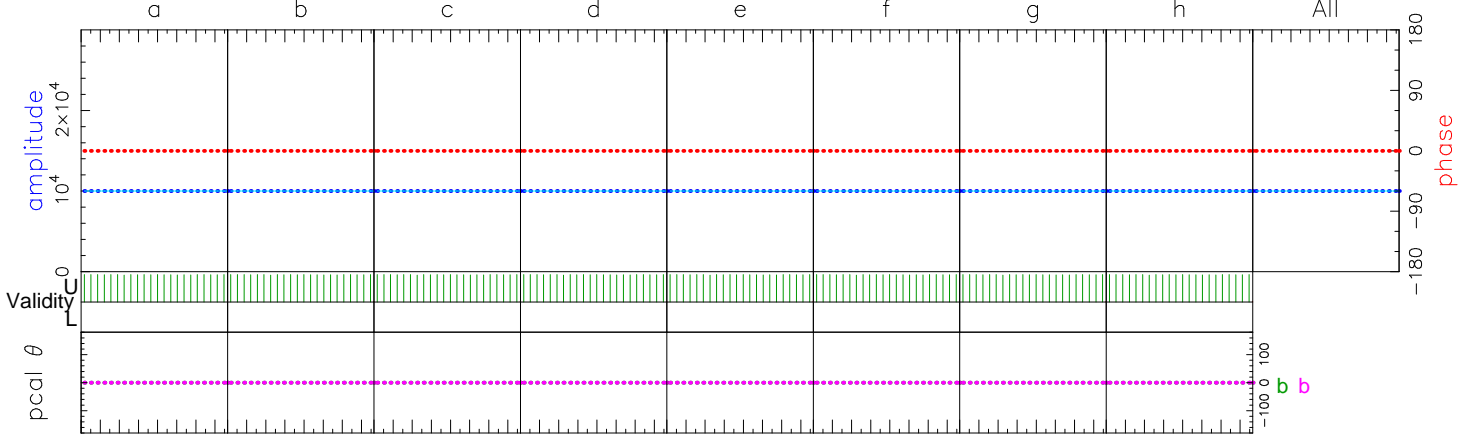
Fringe quality 9

SNR 571482.7
Int time 436.728
Amp 9999.999
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. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120748
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

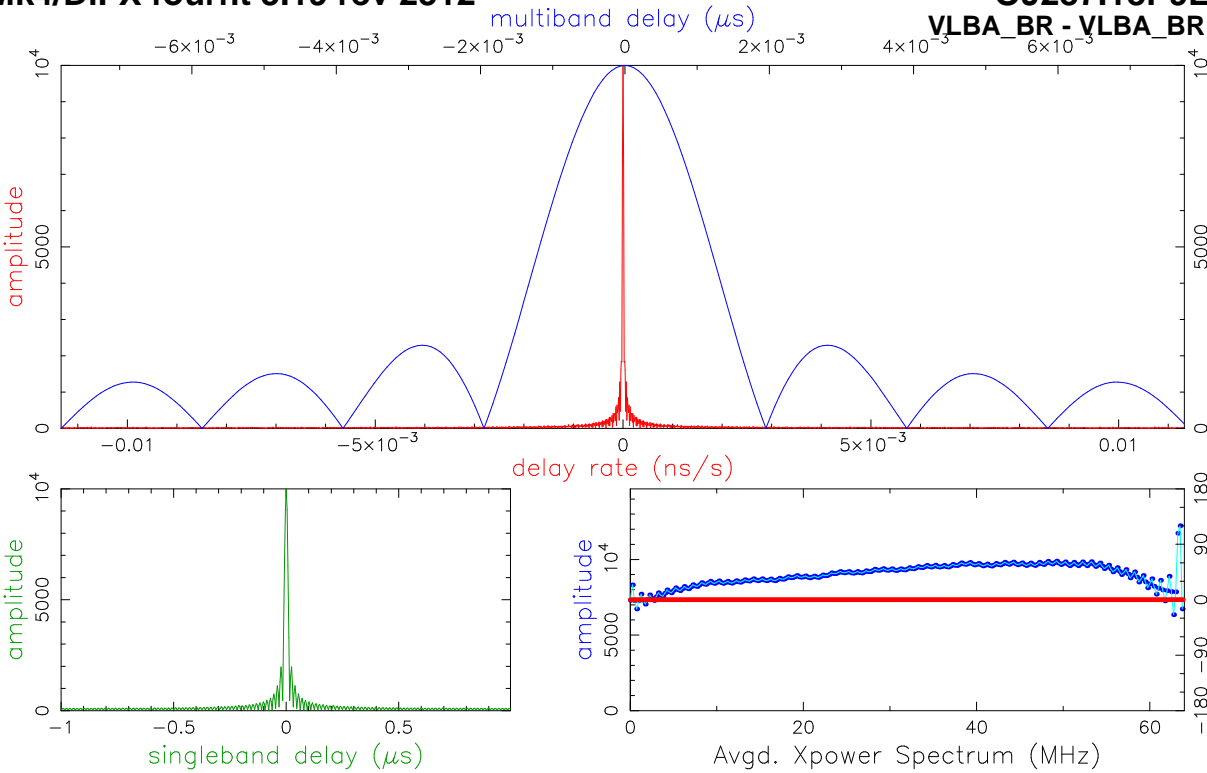
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-1.41264150742E-19	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.41264E-19	+/-	6.5E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.5E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	9999.999 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9999.999	Data rate (Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 99.1 el 35.1 pa -44.6				u, v (fr/asec) 0.000 0.000		nlags: 256 t_cohere infinite	simultaneous interpolator

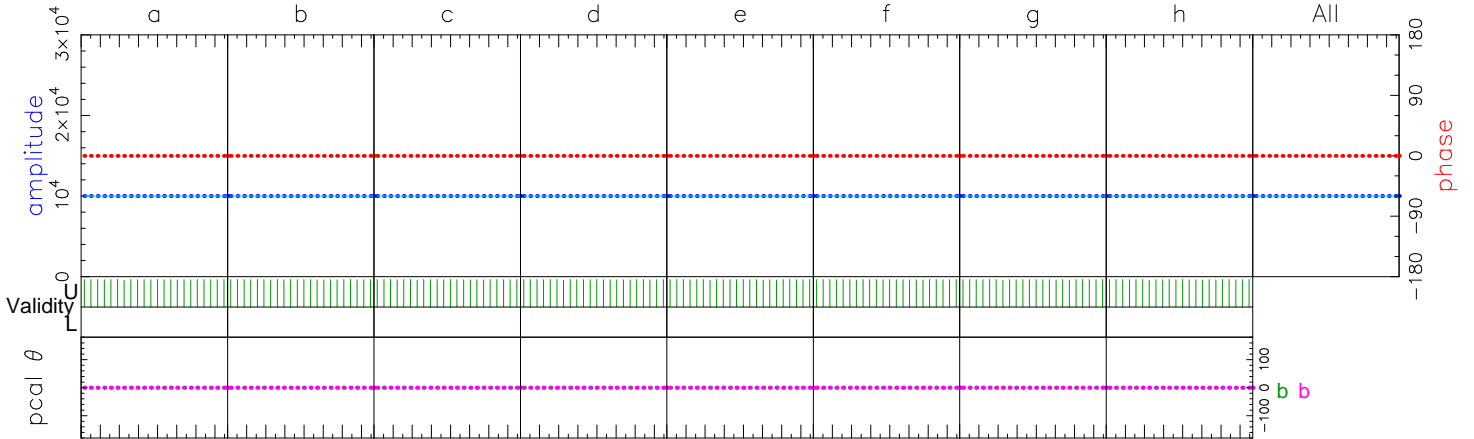


Fringe quality 9

SNR 571483.0
Int time 436.728
Amp 10000.010
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. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120754
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

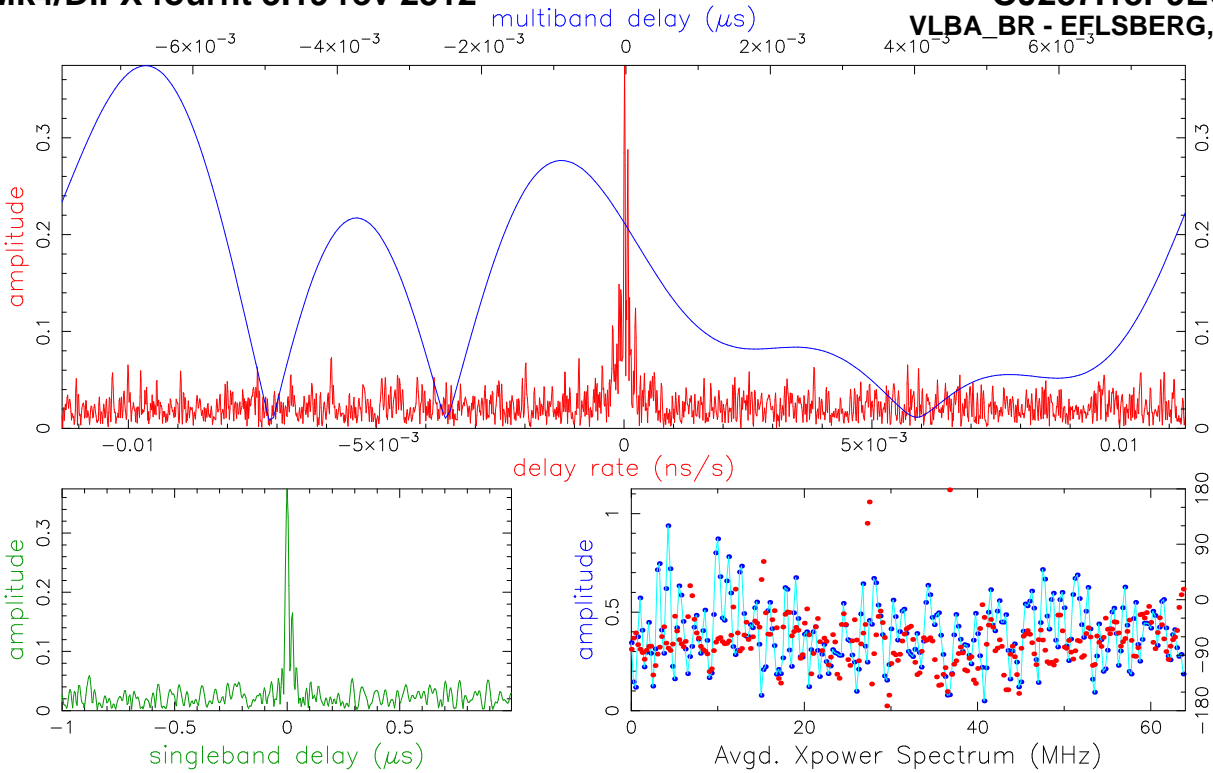


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		0.00000E+00	+/- 1.5E-08
Phase delay (usec)	1.02452461449E-20		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.02452E-20	+/- 6.5E-12
Delay rate (us/s)	0.0000000000E+00		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		0.00000E+00	+/- 2.5E-14
Total phase (deg)	0.0		Apriori accel (us/s/s)		0.0000000000E+00		Resid phase (deg)		0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.010 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.009 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.009 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

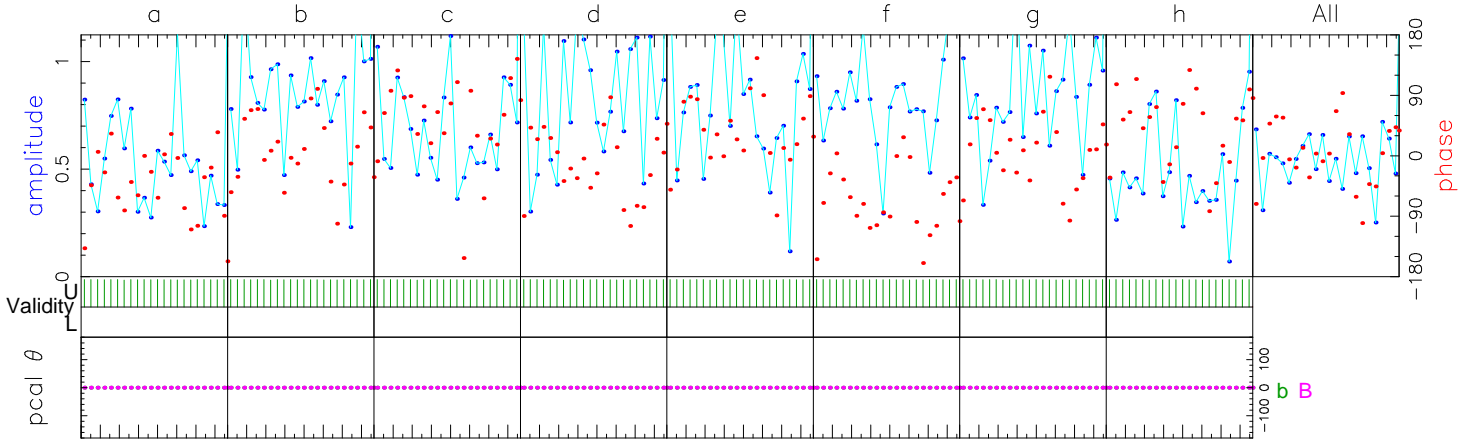
b: az 99.1 el 35.1 pa -44.6 b: az 99.1 el 35.1 pa -44.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bb..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bb.W.21.18P9EC



Fringe quality 7
SNR 21.4
Int time 436.666
Amp 0.375
Phase 4.5
PFD 0.0e+00
Delays (us)
SBD -0.000324
MBD -0.006672
Fringe rate (Hz) 0.000643
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120755
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



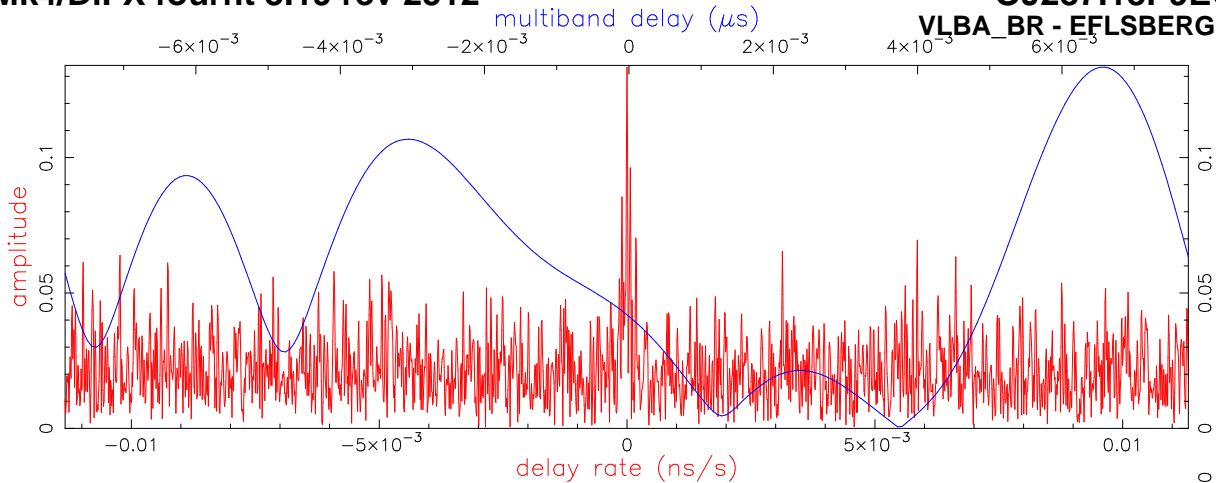
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-40.1	18.7	68.4	-20.2	36.2	-62.0	-0.1	51.1		4.5
	0.4	0.6	0.5	0.6	0.5	0.6	0.6	0.3		0.5
	260.4	257.9	256.4	256.1	256.1	256.3	257.1	261.8		256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	2.18094877306E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		-6.67225E-03	+/- 5.1E-05
Sband delay (usec)	2.18095512107E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-3.24250E-04	+/- 4.0E-04
Phase delay (usec)	2.18095544546E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		1.45116E-07	+/- 1.7E-07
Delay rate (us/s)	1.69116744389E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		7.46465E-09	+/- 6.8E-10
Total phase (deg)	25.9		Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		4.5	+/- 5.4

ph/seg (deg) 47.8 12.8 Search (2048X32) 0.375 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.3 22.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.2 7.6 Inc. seg. avg. 0.526 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.8 13.2 Inc. frq. avg. 0.489 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 99.1 el 35.1 pa -44.6 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

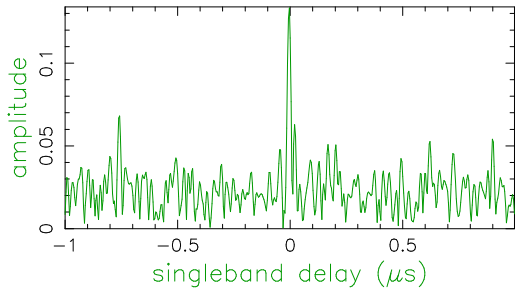
OJ287.18P9EC, No0027, bB

VLBA_BR - EFLSBERG, fgroup W, pol LL

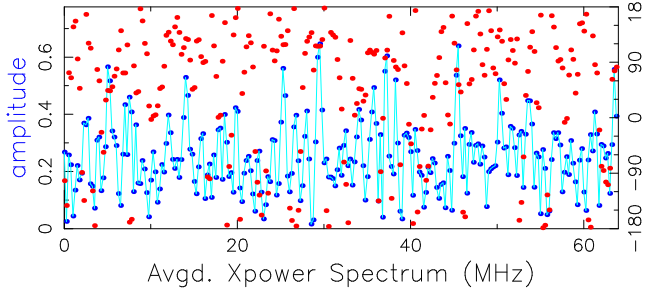


Fringe quality 9

SNR 7.7
 Int time 436.666
 Amp 0.134
 Phase -22.4
 PFD 6.1e-06
 Delays (us)
 SBD -0.004821
 MBD 0.006527
 Fringe rate (Hz)
 0.000457
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

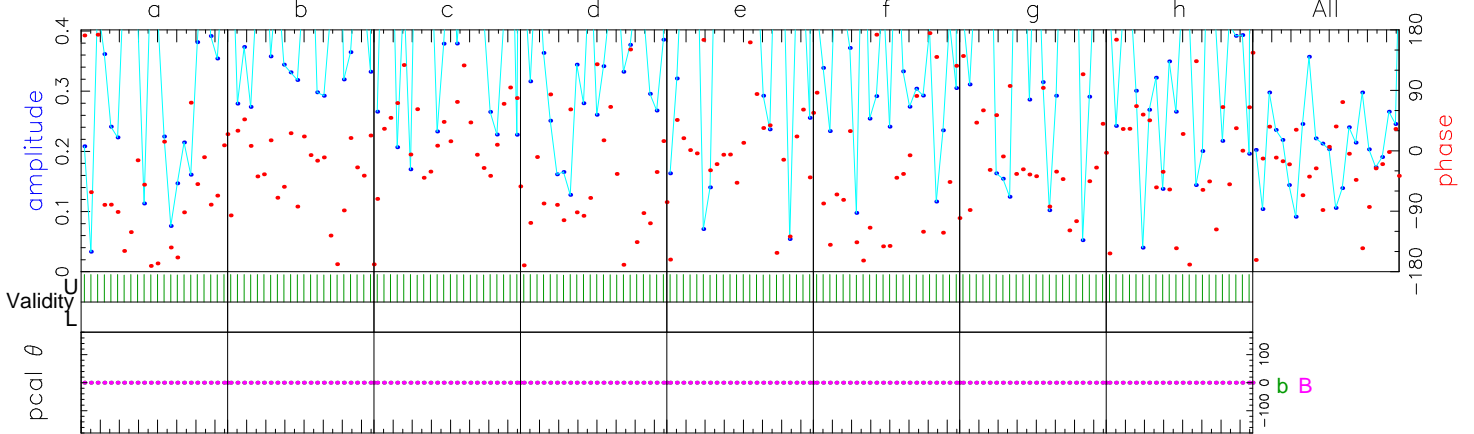


delay rate (ns/s)



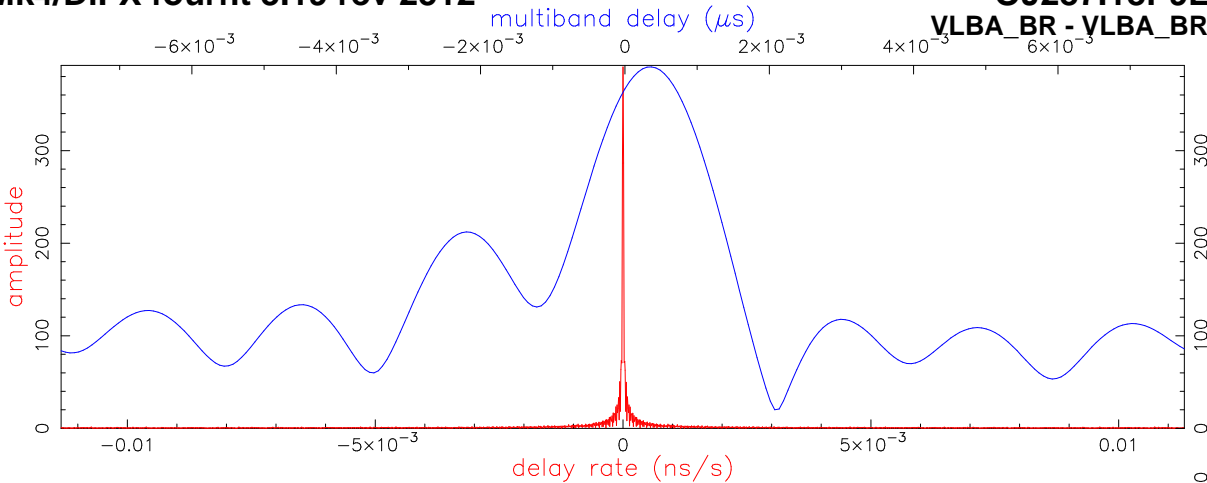
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120749
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



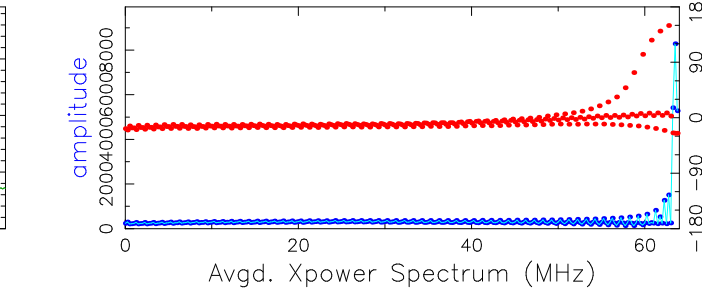
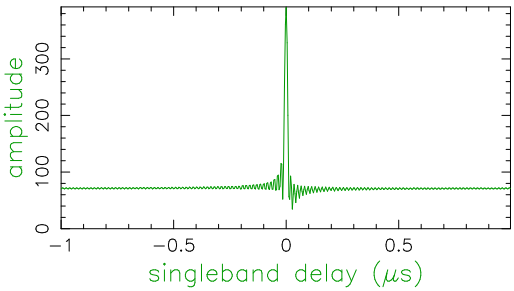
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-88.4	-31.2	33.8	-78.7	7.1	-106.2	-26.7	-11.0	Phase	-22.4
	0.1	0.2	0.3	0.1	0.2	0.1	0.2	0.1	Ampl.	0.2
	259.8	256.3	255.9	280.4	255.6	52.9	256.0	300.4	Sbd box	255.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.18094634757E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		6.52725E-03	+/- 1.4E-04
Sband delay (usec)	2.18095062382E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-4.82150E-03	+/- 1.1E-03
Phase delay (usec)	2.18095544459E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-7.22049E-07	+/- 4.8E-07
Delay rate (us/s)	1.69116744173E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		5.30851E-09	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		-22.4	+/- 15.0

ph/seg (deg) 55.9 35.9 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.7 62.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.0 21.2 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 64.9 36.9 Inc. frq. avg. 0.172 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 99.1 el 35.1 pa -44.6 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bB..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bB.W.3.18P9EC



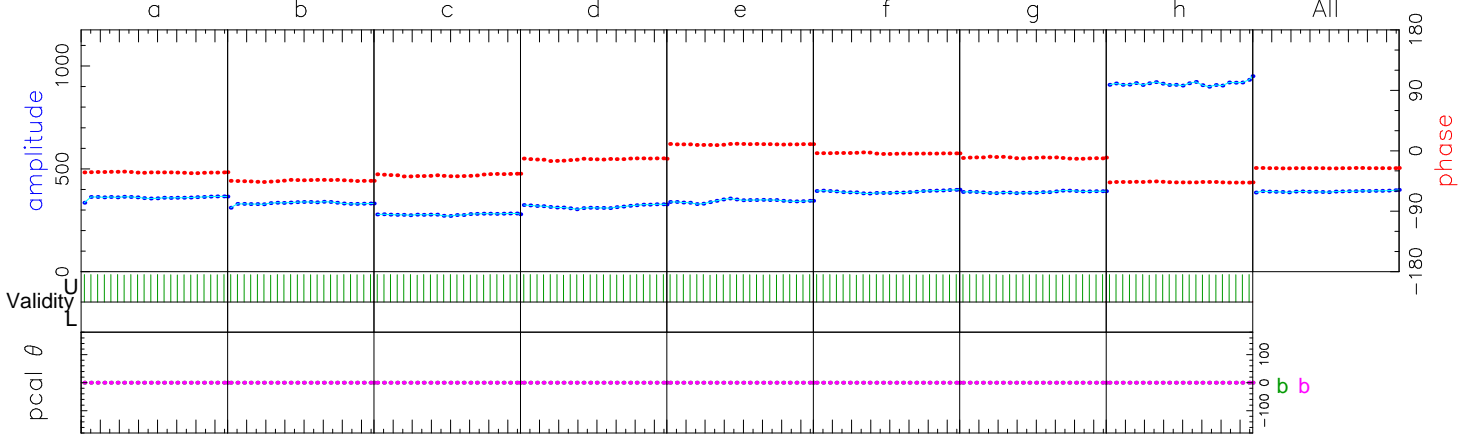
Fringe quality 6

SNR 22402.5
Int time 436.728
Amp 392.006
Phase -25.9
PFD 0.0e+00
Delays (us)
SBD -0.000712
MBD 0.000366
Fringe rate (Hz)
0.000002
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120759
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

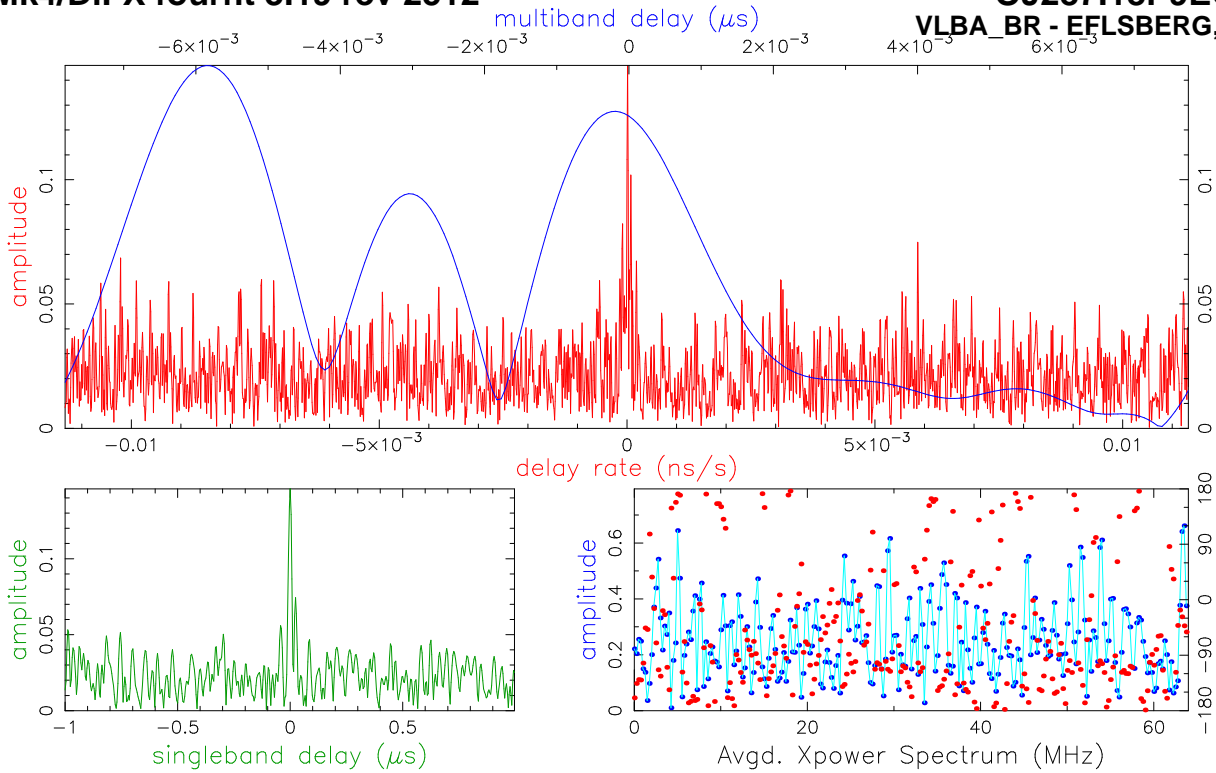


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-32.2	-44.5	-36.4	-12.6	9.6	-3.8	-10.5	-46.7		-25.9
	360.5	332.7	278.3	316.7	343.7	388.9	387.6	913.2	Ampl.	415.2
	256.8	257.0	257.3	257.5	257.0	257.0	257.0	256.9	Sbd box	256.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	
									Tracks	
Group delay (usec)(sbd)	3.66343750000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.66344E-04	+/- 4.8E-08
Sband delay (usec)	-7.11500000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-7.11500E-04	+/- 3.8E-07
Phase delay (usec)	-8.34187639664E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-8.34188E-07	+/- 1.6E-10
Delay rate (us/s)	2.83423047834E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.83423E-11	+/- 6.5E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-25.9	+/- 0.0

ph/seg (deg) 0.2 0.0 Search (2048X32) 386.806 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 0.8 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) 22.7 0.0 Inc. seg. avg. 390.428 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 49.2 0.0 Inc. frq. avg. 415.207 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 99.1 el 35.1 pa -44.6 b: az 99.1 el 35.1 pa -44.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
ion window (TEC) 0.00 0.00

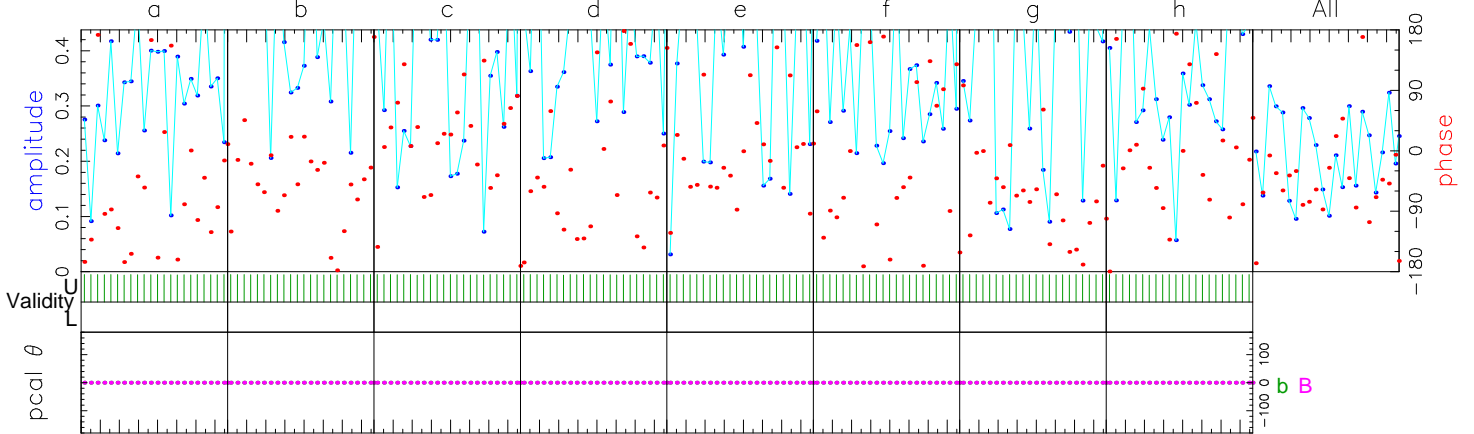
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bB
VLBA_BR - EFLSBERG, fgroup W, pol LR



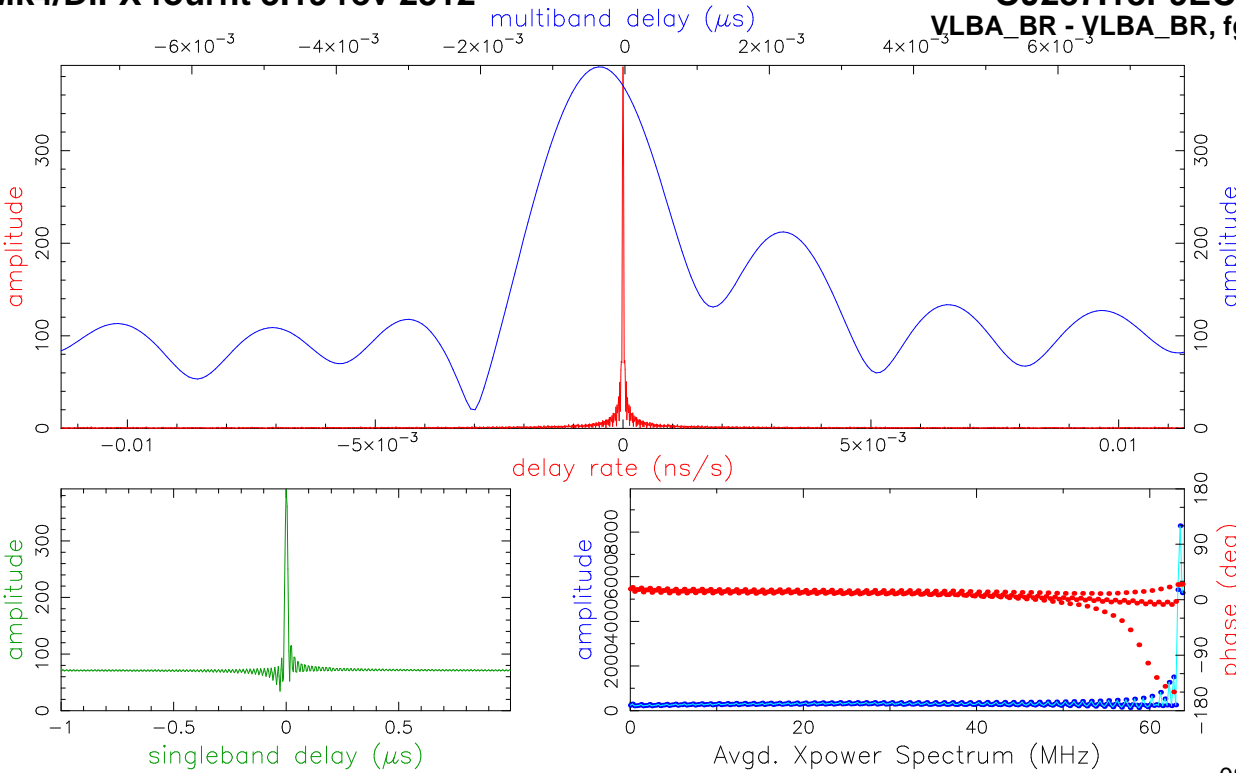
Fringe quality 9
SNR 8.3
Int time 436.666
Amp 0.146
Phase -53.6
PFD 2.6e-08
Delays (us)
SBD -0.000283
MBD -0.005850
Fringe rate (Hz) 0.000586
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120800
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-102.7	-49.6	16.1	-89.3	-20.1	-134.8	-74.6	-24.5	Phase	-53.6
	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	260.9	256.9	256.7	256.3	255.9	22.9	257.0	268.2	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.18094959503E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		-5.85029E-03	+/- 1.3E-04
Sband delay (usec)	2.18095516232E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-2.83000E-04	+/- 1.0E-03
Phase delay (usec)	2.18095544359E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		-1.72847E-06	+/- 4.4E-07
Delay rate (us/s)	1.69116744322E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		6.79932E-09	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		-53.6	+/- 13.7

ph/seg (deg) 52.7 32.9 Search (2048X32) 0.139 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.8 57.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.1 19.4 Inc. seg. avg. 0.187 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.3 33.9 Inc. frq. avg. 0.183 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 99.1 el 35.1 pa -44.6 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bB..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bB.W.50.18P9EC simultaneous interpolator

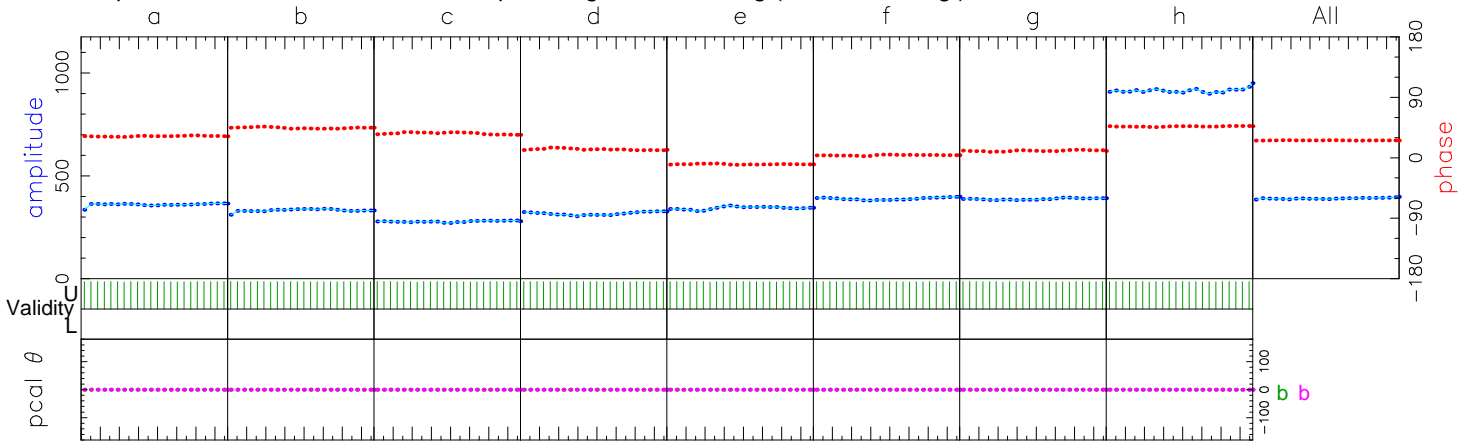


Fringe quality 6

SNR 22402.5
Int time 436.728
Amp 392.006
Phase 25.9
PFD 0.0e+00
Delays (us)
SBD 0.000712
MBD -0.000366
Fringe rate (Hz)
-0.000002
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

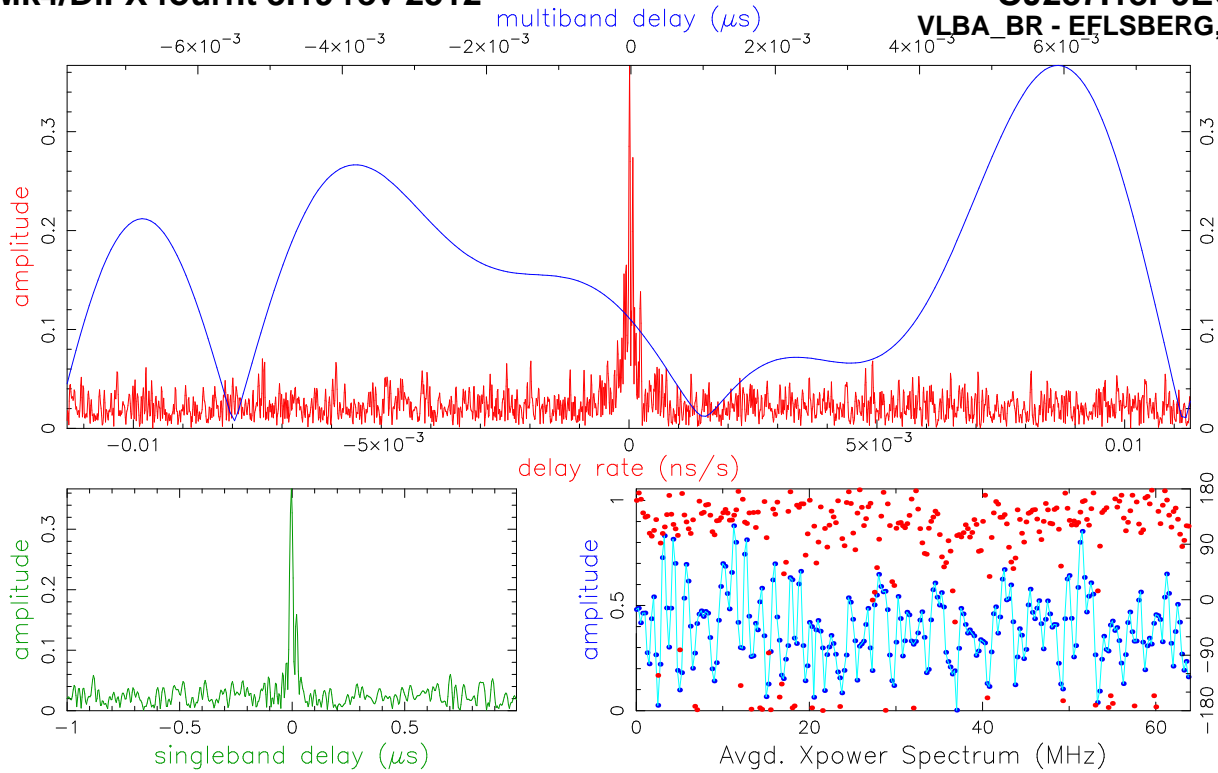
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	32.2	44.5	36.4	12.6	-9.6	3.8	10.5	46.7	Phase	25.9
	360.5	332.7	278.3	316.7	343.7	388.9	387.6	913.2	Ampl.	415.2
	257.2	257.0	256.7	256.5	257.0	257.0	257.0	257.1	Sbd box	257.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-3.66343750000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-3.66344E-04	+/- 4.8E-08
Sband delay (usec)	7.11500000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		7.11500E-04	+/- 3.8E-07
Phase delay (usec)	8.34187639599E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		8.34188E-07	+/- 1.6E-10
Delay rate (us/s)	-2.83423047834E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.83423E-11	+/- 6.5E-13
Total phase (deg)	25.9		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		25.9	+/- 0.0

ph/seg (deg) 0.2 0.0 Search (2048X32) 386.806 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.8 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) 22.7 0.0 Inc. seg. avg. 390.428 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.2 0.0 Inc. frq. avg. 415.207 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 99.1 el 35.1 pa -44.6 b: az 99.1 el 35.1 pa -44.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bb..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bb.W.61.18P9EC

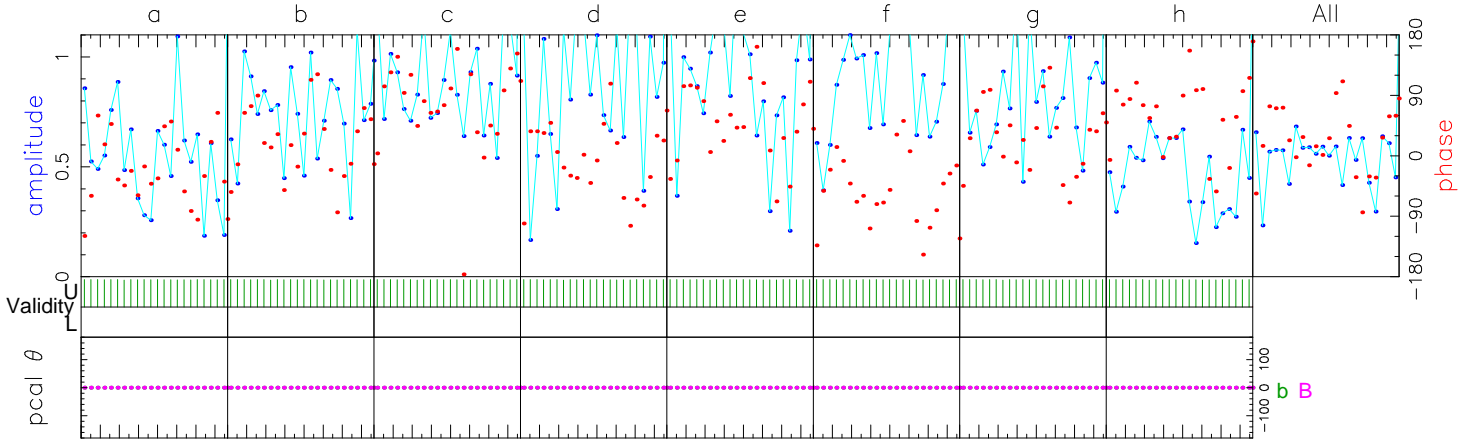


Fringe quality 7

SNR 21.0
Int time 436.666
Amp 0.367
Phase 23.2
PFD 0.0e+00
Delays (us)
SBD -0.003889
MBD 0.005916
Fringe rate (Hz) 0.000594
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120804
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

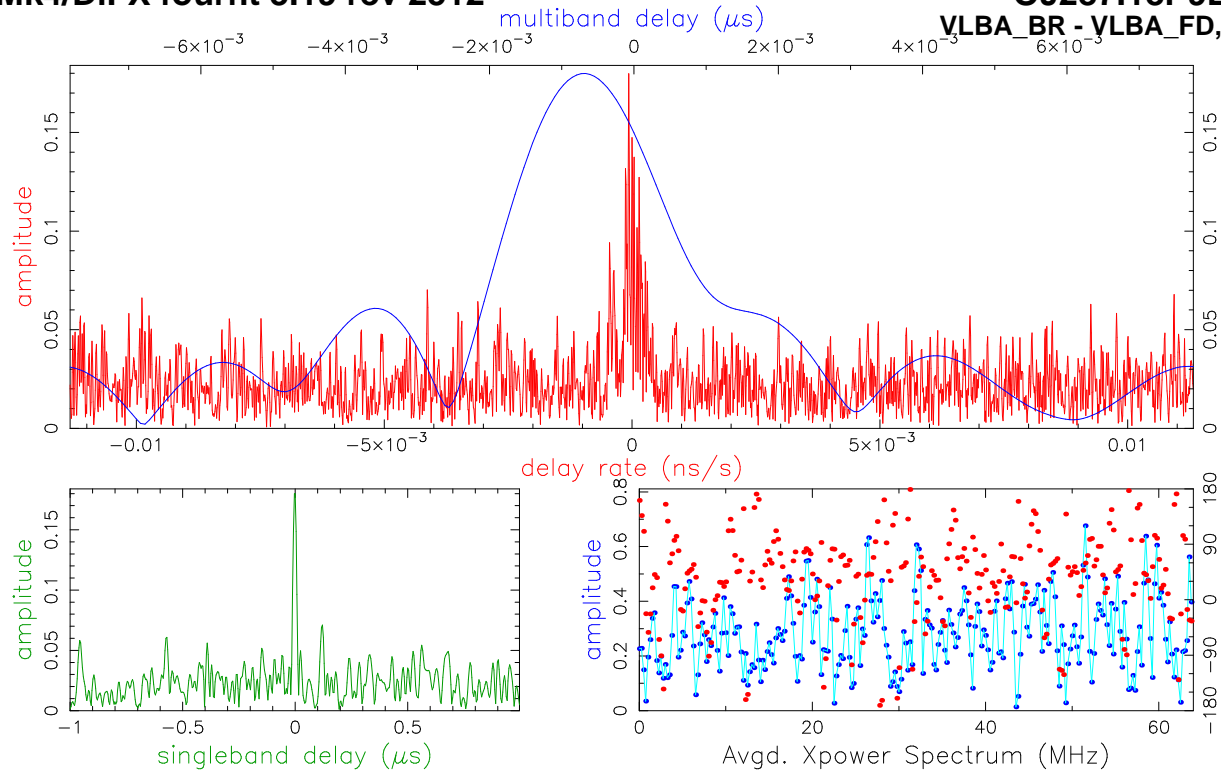
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.2	28.4	91.4	-13.8	57.4	-42.1	20.2	62.2	Phase	23.2
	0.3	0.5	0.6	0.6	0.6	0.6	0.5	0.3	Ampl.	0.5
	259.0	257.2	255.6	255.1	255.3	255.5	256.5	260.9	Sbd box	256.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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		
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)	2.18094573662E+03		Apriori delay (usec)		2.18095544532E+03		Resid mbdelay (usec)		5.91631E-03	+/- 5.2E-05
Sband delay (usec)	2.18095155632E+03		Apriori clock (usec)		-1.4460264E+01		Resid sbdelay (usec)		-3.88900E-03	+/- 4.1E-04
Phase delay (usec)	2.18095544606E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		7.47573E-07	+/- 1.8E-07
Delay rate (us/s)	1.69116744332E+00		Apriori rate (us/s)		1.69116743642E+00		Resid rate (us/s)		6.89710E-09	+/- 6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.27286396941E-05		Resid phase (deg)		23.2	+/- 5.5

ph/seg (deg) 48.8 13.1 Amplitude 0.367 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.2 22.9 Search (2048X32) 0.352 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.7 7.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.4 13.5 Inc. seg. avg. 0.524 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 B: az 265.9 el 29.7 pa 42.5 u,v (fr/asec) -10328.688 -535.030 simultaneous interpolator

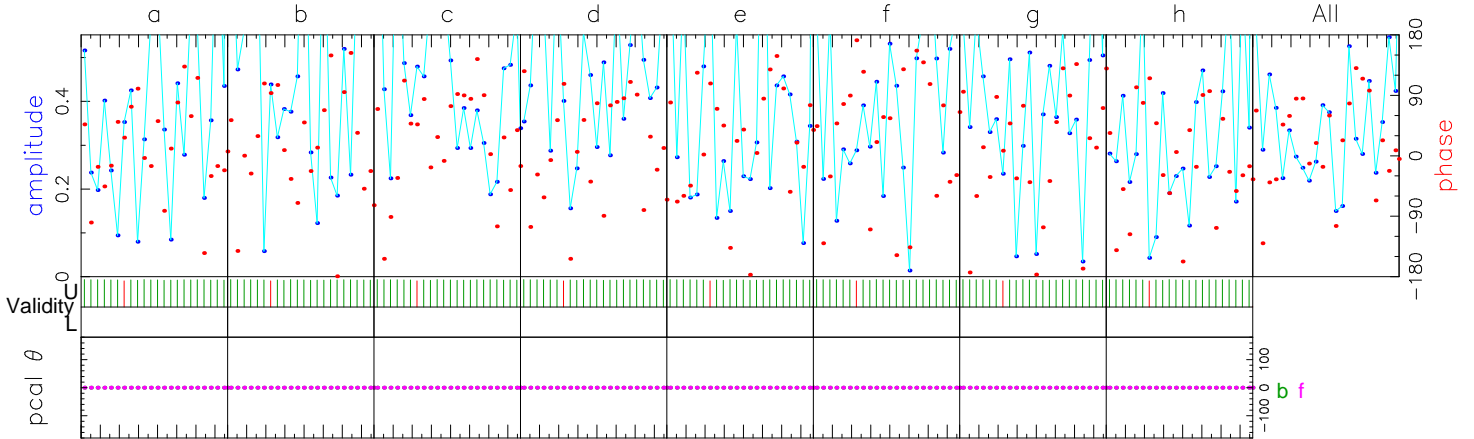


Fringe quality 9

SNR 10.5
Int time 432.356
Amp 0.184
Phase 33.0
PFD 5.8e-17
Delays (us)
SBD -0.001962
MBD -0.000721
Fringe rate (Hz)
-0.005420
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120754
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

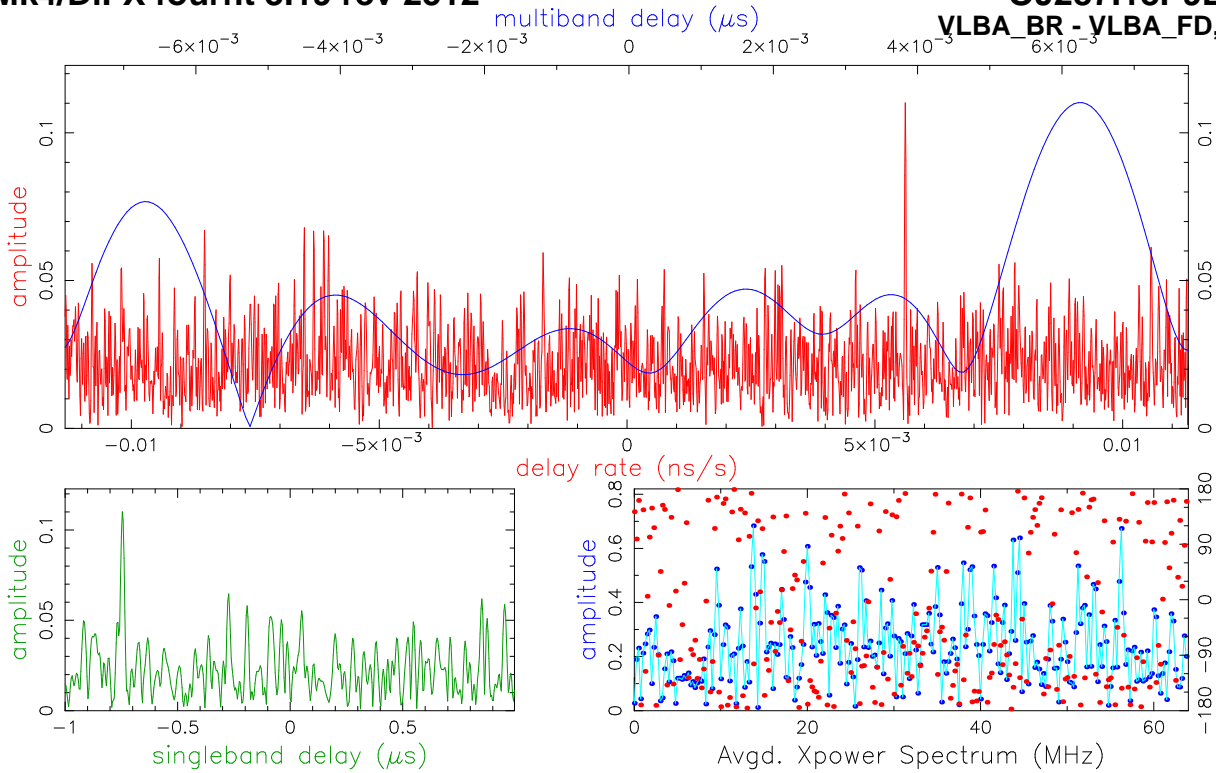
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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)	-3.95654673482E+03									
Sband delay (usec)	-3.95654797623E+03									
Phase delay (usec)	-3.95654601316E+03									
Delay rate (us/s)	-1.84487496859E-02									
Total phase (deg)			-206.5							
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								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

b: az 99.1 el 35.1 pa -44.6 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 159.475 2817.705 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bf.W.22.18P9EC

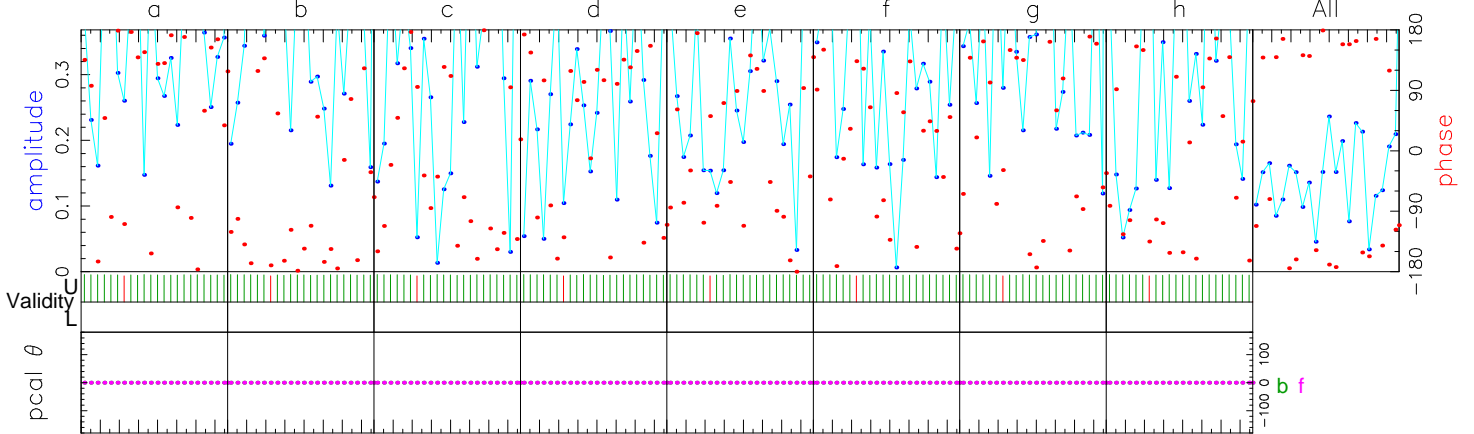


Fringe quality 0

SNR 6.3
Int time 432.356
Amp 0.123
Phase -177.6
PFD 7.9e-02
Delays (us)
SBD -0.745087
MBD 0.006298
Fringe rate (Hz)
0.484422
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120758
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

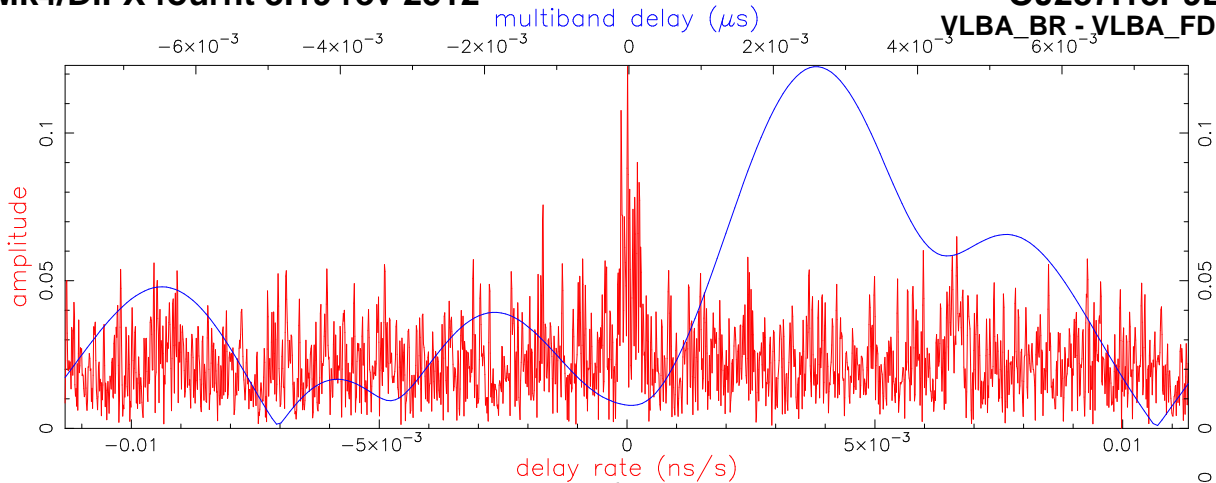
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



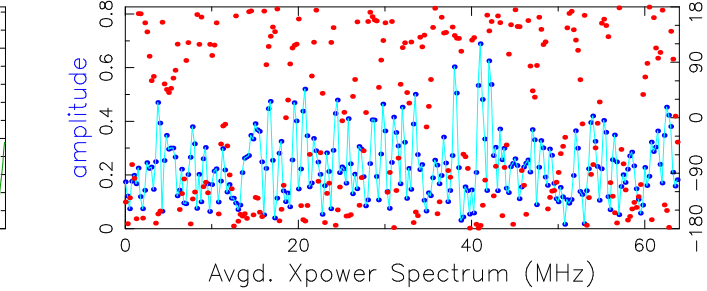
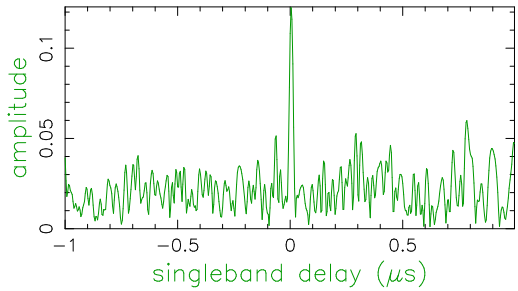
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.95728971638E+03								6.29785E-03	+/- 1.7E-04
Sband delay (usec)	-3.95729110098E+03								-7.45087E-01	+/- 1.4E-03
Phase delay (usec)	-3.95654601995E+03								-5.72725E-06	+/- 5.9E-07
Delay rate (us/s)	-1.84430631022E-02								5.62366E-06	+/- 2.3E-09
Total phase (deg)			-57.2						-177.6	+/- 18.2
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
ph/seg (deg)	40.5	43.6								
amp/seg (%)	58.6	76.2								
ph/frq (deg)	58.3	25.7								
amp/frq (%)	55.5	44.9								
b: az 99.1 el 35.1 pa -44.6										
f: az 94.6 el 49.5 pa -66.0										
u,v (fr/asec) 159.475 2817.705										
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/bf.W.41.18P9EC										

Mk4/DiFX fourfit 3.19 rev 2512

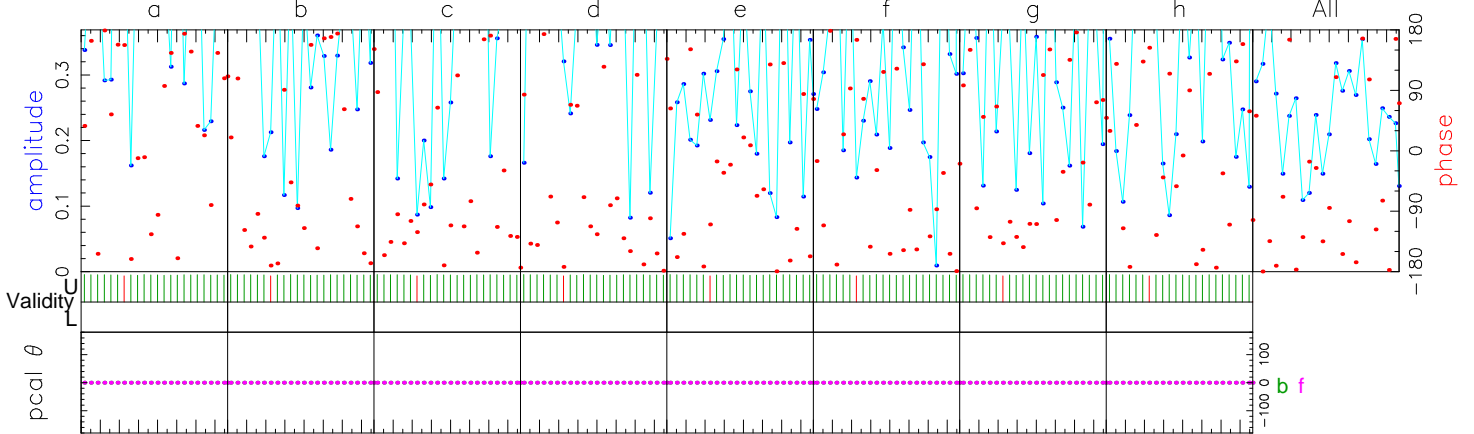
OJ287.18P9EC, No0027, bf
VLBA_BR - VLBA_FD, fgroup W, pol LL



Fringe quality 0
SNR 7.0
Int time 432.356
Amp 0.123
Phase -158.3
PFD 8.3e-04
Delays (us)
SBD 0.004669
MBD 0.002600
Fringe rate (Hz)
0.000520
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120749
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

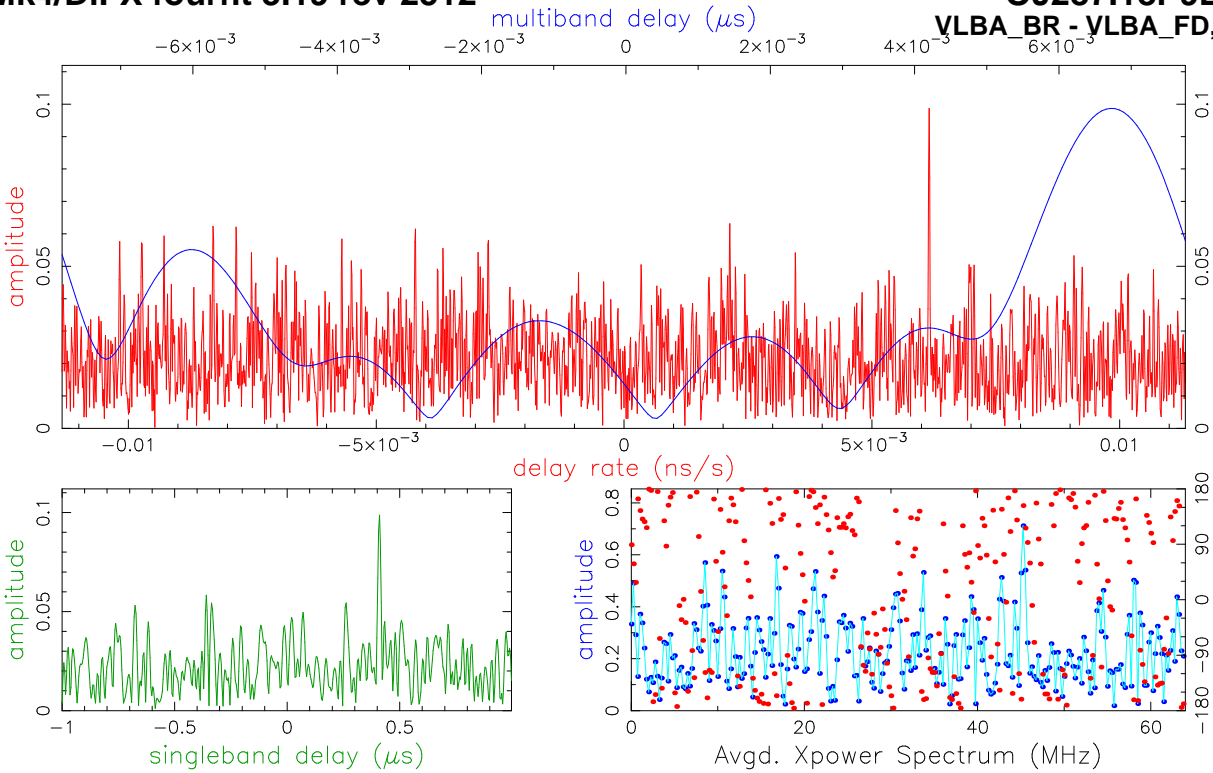


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.95654341395E+03				-3.95654601423E+03				2.60028E-03	+/- 1.6E-04
Sband delay (usec)	-3.95654134498E+03				-5.2896152E+00				4.66925E-03	+/- 1.2E-03
Phase delay (usec)	-3.95654601933E+03				-1.5100001E-07				-5.10621E-06	+/- 5.3E-07
Delay rate (us/s)	-1.84486807333E-02				-1.84486867660E-02				6.03266E-09	+/- 2.1E-09
Total phase (deg)			-37.9		3.00928808314E-05				-158.3	+/- 16.4
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
PC period (AP's) 5, 5										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.123 +/- 0.018										
0.114										
0.000										
0.198										
0.130										
ph/seg (deg)	70.9	39.3								
amp/seg (%)	115.9	68.6								
ph/frq (deg)	40.0	23.2								
amp/frq (%)	46.8	40.5								
b: az 99.1 el 35.1 pa -44.6										
f: az 94.6 el 49.5 pa -66.0										
u,v (fr/asec) 159.475 2817.705										
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/bf.W.4.18P9EC										

simultaneous interpolator

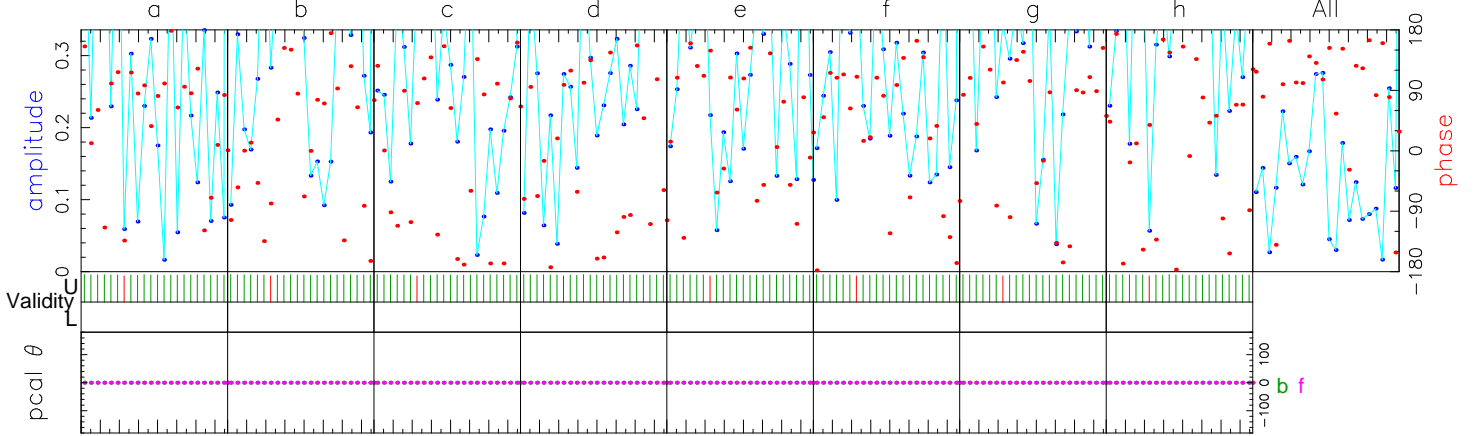


Fringe quality 0

SNR 5.6
Int time 432.356
Amp 0.112
Phase 120.9
PFD 9.9e-01
Delays (us)
SBD 0.409728
MBD 0.006725
Fringe rate (Hz)
0.531311
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

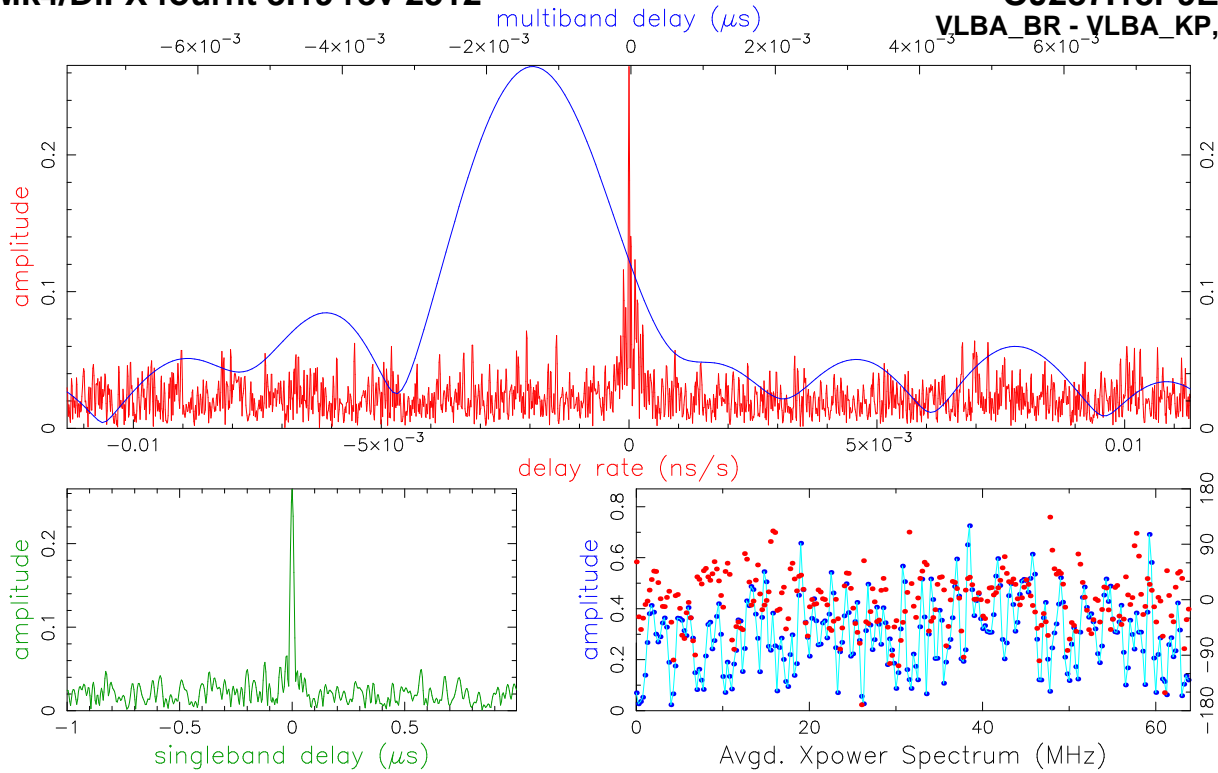
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120803
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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)	-3.95613303942E+03		Apriori delay (usec)		-3.95654601423E+03		Resid mbdelay (usec)		6.72481E-03	+/- 1.9E-04
Sband delay (usec)	-3.95613628623E+03		Apriori clock (usec)		-5.2896152E+00		Resid sbdelay (usec)		4.09728E-01	+/- 1.5E-03
Phase delay (usec)	-3.95654601033E+03		Apriori clockrate (us/s)		-1.5100001E-07		Resid phdelay (usec)		3.89969E-06	+/- 6.6E-07
Delay rate (us/s)	-1.84425187726E-02		Apriori rate (us/s)		-1.84486867660E-02		Resid rate (us/s)		6.16799E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.00928808314E-05		Resid phase (deg)		120.9	+/- 20.4

ph/seg (deg) 52.1 48.9 Search (2048X32) 0.097 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.9 85.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.7 28.8 Inc. seg. avg. 0.108 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.5 50.3 Inc. frq. avg. 0.103 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 99.1 el 35.1 pa -44.6 f: az 94.6 el 49.5 pa -66.0 u,v (fr/asec) 159.475 2817.705 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bf..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bf.W.62.18P9EC

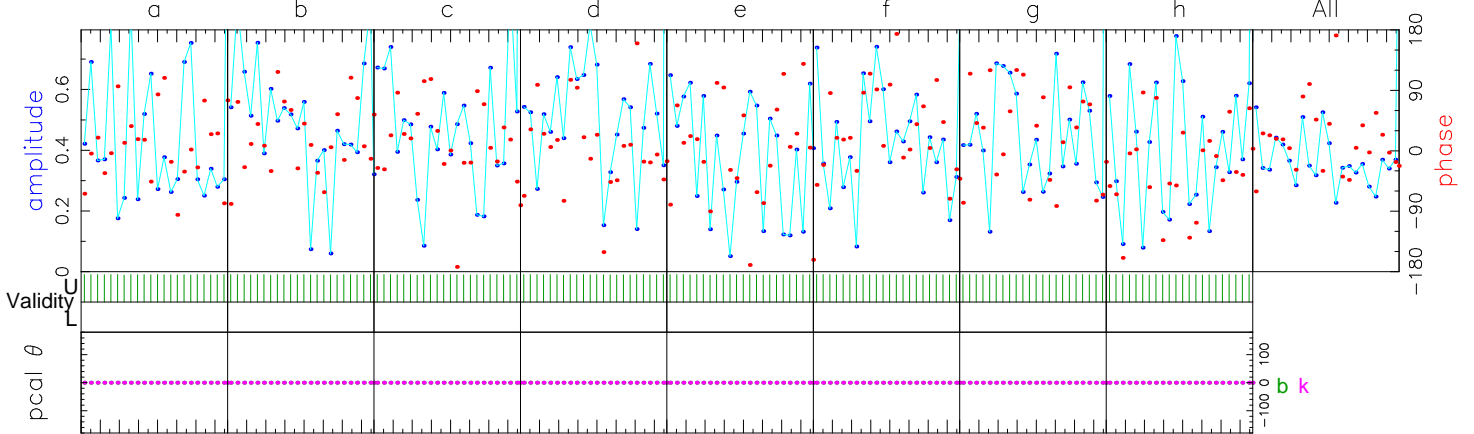


Fringe quality 9

SNR 15.2
Int time 436.725
Amp 0.266
Phase 10.7
PFD 3.4e-43
Delays (us)
SBD -0.000730
MBD -0.001370
Fringe rate (Hz) -0.000449
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

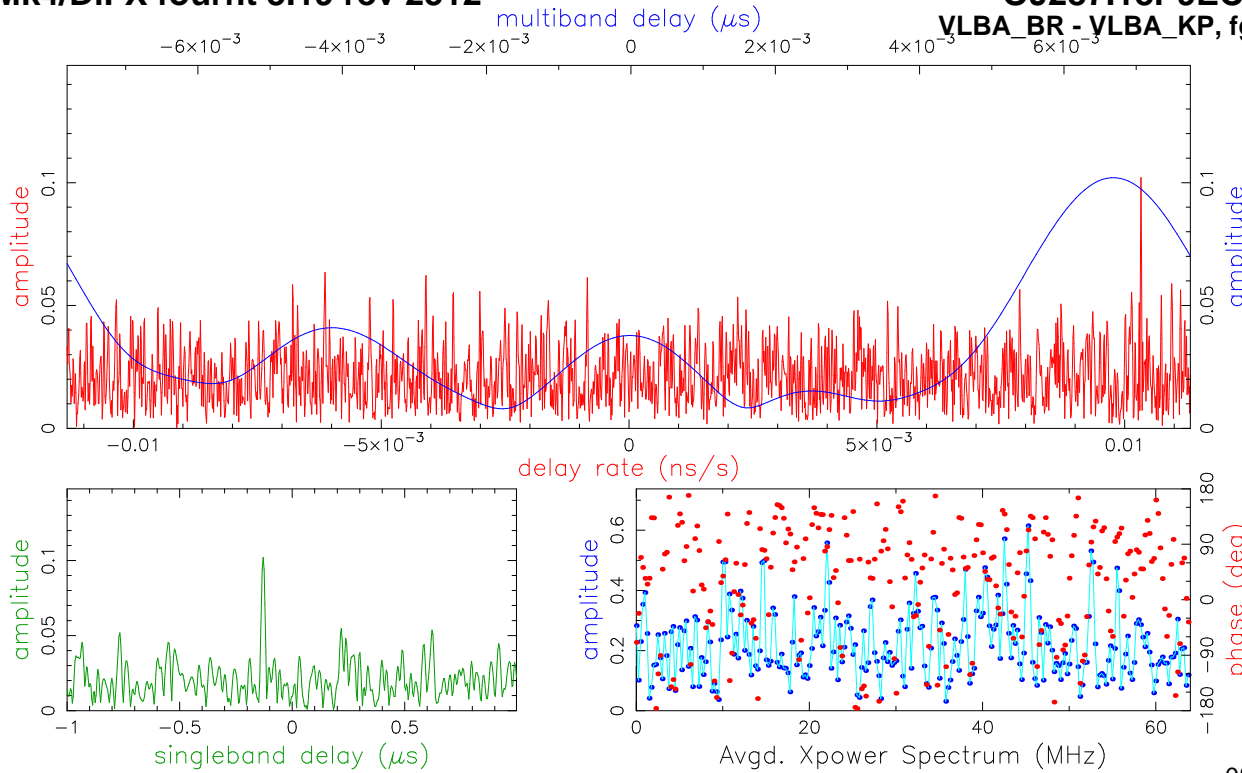


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.2	19.3	9.0	5.3	10.2	35.1	29.1	-15.2		Phase
	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3		Ampl.
	257.1	257.0	257.0	256.1	258.0	256.2	257.0	256.9		Sbd box
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used
b	1000	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
k	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)	-2.28141882761E+03		Apriori delay (usec)		-2.28141745746E+03		Resid mbdelay (usec)		-1.37016E-03	+/- 7.2E-05
Sband delay (usec)	-2.28141818721E+03		Apriori clock (usec)		-1.0578210E+00		Resid sbdelay (usec)		-7.29750E-04	+/- 5.7E-04
Phase delay (usec)	-2.28141745711E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		3.44527E-07	+/- 2.4E-07
Delay rate (us/s)	-1.21405125396E-01		Apriori rate (us/s)		-1.21405120182E-01		Resid rate (us/s)		-5.21428E-09	+/- 9.6E-10
Total phase (deg)			Apriori accel (us/s/s)		2.04462536050E-05		Resid phase (deg)		10.7	+/- 7.6

ph/seg (deg) 51.7 18.1 Search (2048X32) 0.244 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 50.6 31.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.5 10.7 Inc. seg. avg. 0.350 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.1 18.6 Inc. frq. avg. 0.268 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 99.1 el 35.1 pa -44.6 k: az 91.6 el 42.9 pa -64.5 u,v (fr/asec) 771.244 2373.911 simultaneous interpolator

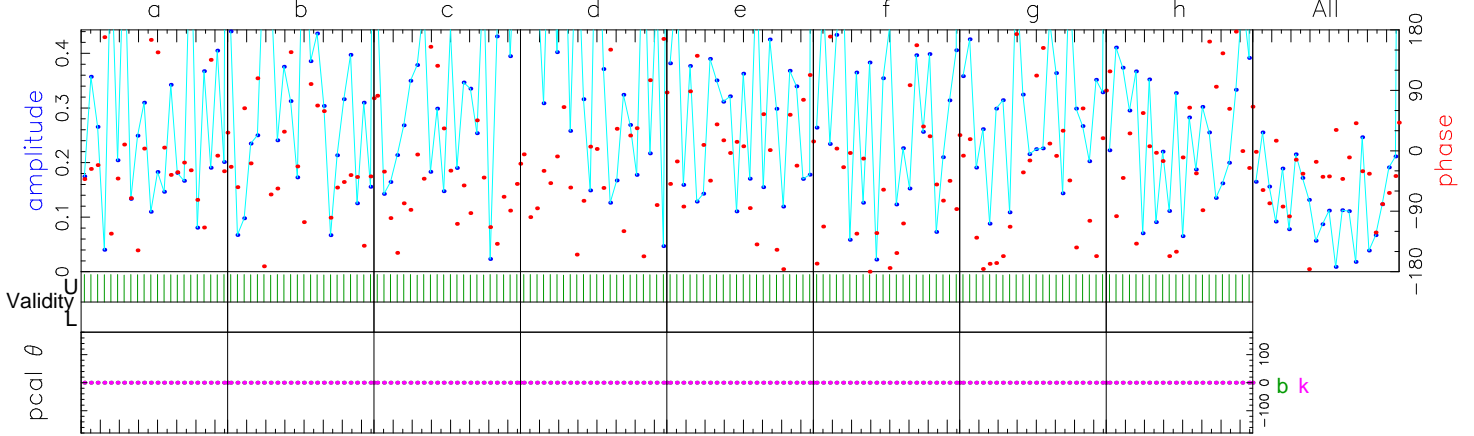
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bk
VLBA_BR - VLBA_KP, fgroup W, pol LR



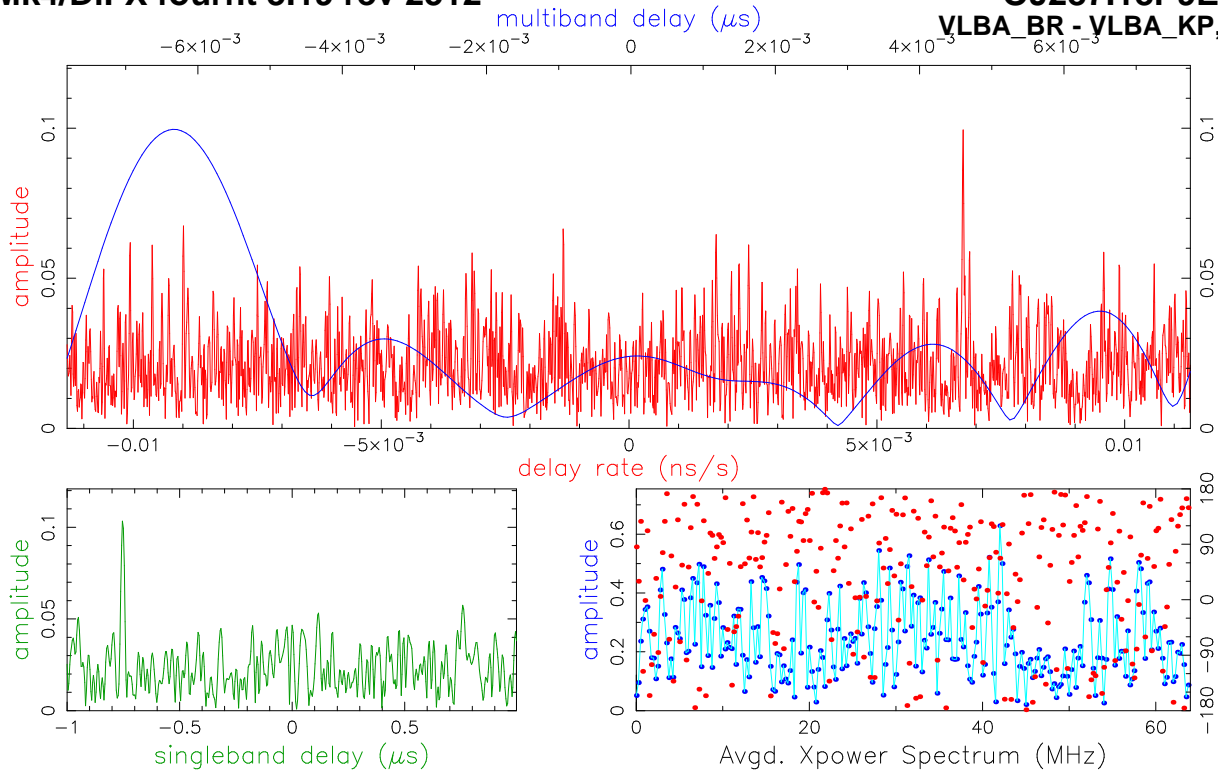
Fringe quality 0
SNR 5.8
Int time 436.726
Amp 0.148
Phase -44.9
PFD 7.5e-01
Delays (us)
SBD -0.128863
MBD 0.006683
Fringe rate (Hz) 0.891524
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120800
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.6	-40.9	-58.8	-49.5	-1.7	-90.3	-53.3	-25.8	Phase	-44.9
	0.2	0.1	0.3	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	316.2	167.2	223.7	59.7	13.1	163.2	504.3	318.4	Sbd box	224.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.28155139948E+03		Apriori delay (usec)		-2.28141745746E+03		Resid mbdelay (usec)		6.68298E-03	+/- 1.9E-04
Sband delay (usec)	-2.28154632046E+03		Apriori clock (usec)		-1.0578210E+00		Resid sbdelay (usec)		-1.28863E-01	+/- 1.5E-03
Phase delay (usec)	-2.28141745890E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-1.44796E-06	+/- 6.3E-07
Delay rate (us/s)	-1.21394770469E-01		Apriori rate (us/s)		-1.21405120182E-01		Resid rate (us/s)		1.03497E-05	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.04462536050E-05		Resid phase (deg)		-44.9	+/- 19.6

ph/seg (deg) 48.8 47.1 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 87.7 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 27.8 27.8 Inc. seg. avg. 0.141 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 51.7 48.5 Inc. frq. avg. 0.144 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 99.1 el 35.1 pa -44.6 k: az 91.6 el 42.9 pa -64.5 u,v (fr/asec) 771.244 2373.911 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bk..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bk.W.49.18P9EC

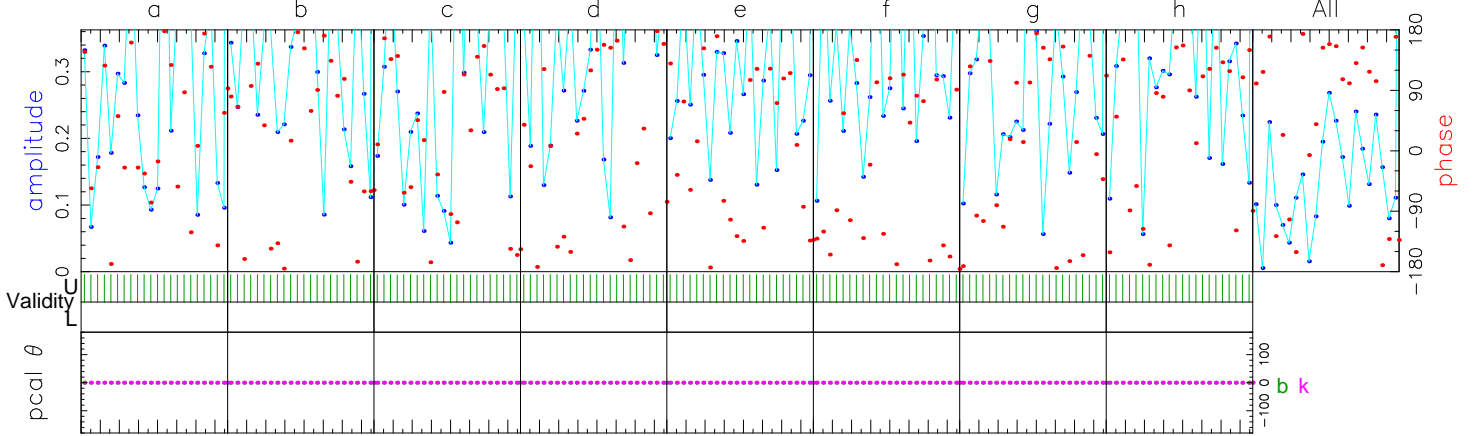


Fringe quality 0

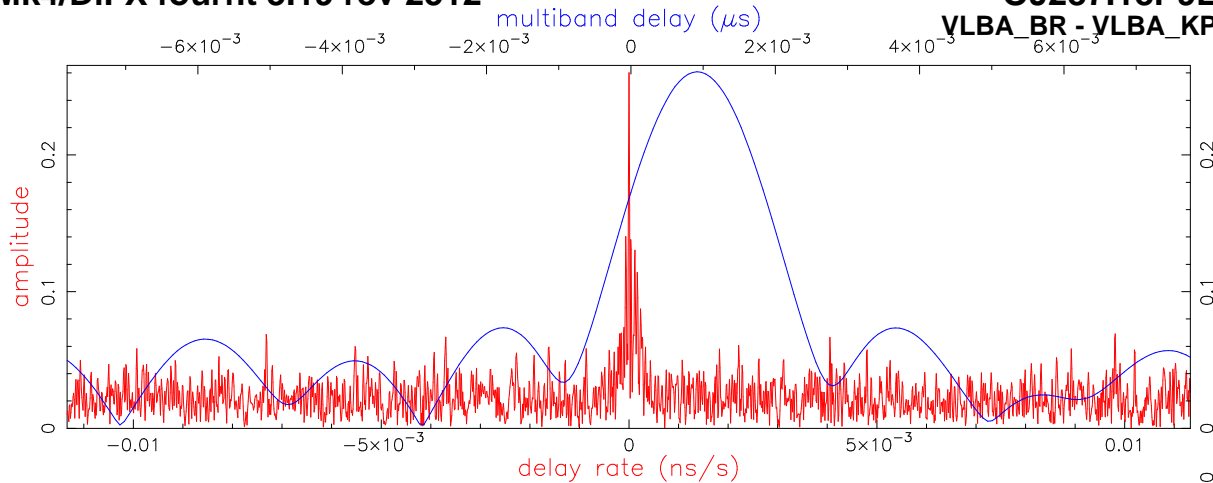
SNR 5.9
Int time 436.725
Amp 0.121
Phase 148.9
PFD 5.1e-01
Delays (us)
SBD -0.752815
MBD -0.006407
Fringe rate (Hz) 0.582115
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120804
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

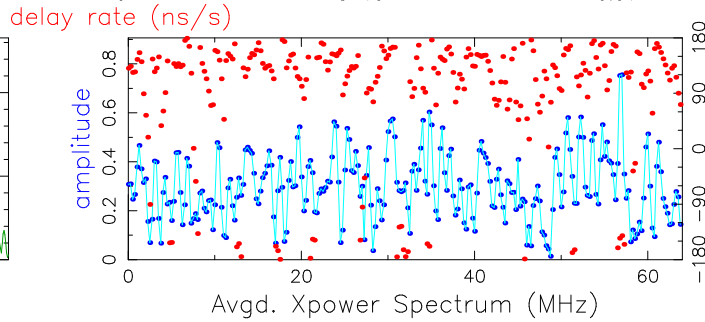
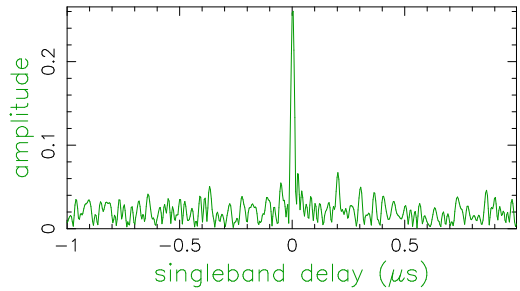


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-2.28217386418E+03								Resid mbdelay (usec)	-6.40672E-03 +/- 1.8E-04
Sband delay (usec)	-2.28217027296E+03								Resid sbdelay (usec)	-7.52815E-01 +/- 1.4E-03
Phase delay (usec)	-2.28141745265E+03								Resid phdelay (usec)	4.80235E-06 +/- 6.2E-07
Delay rate (us/s)	-1.21398362404E-01								Resid rate (us/s)	6.75778E-06 +/- 2.4E-09
Total phase (deg)			-133.8						Resid phase (deg)	148.9 +/- 19.3
	RMS	Theor.	Amplitude	0.121 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	65.7	46.2	Search (2048X32)	0.098					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	81.2	80.7	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	19.1	27.3	Inc. seg. avg.	0.120					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	23.9	47.6	Inc. frq. avg.	0.109					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 99.1 el 35.1 pa -44.6			k: az 91.6 el 42.9 pa -64.5						nlags: 256	t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c201a/v1/1234/No0027/bk..18P9EC							simultaneous interpolator
			Output file: /Exps/c201a/v1/1234/No0027/bk.W.68.18P9EC							



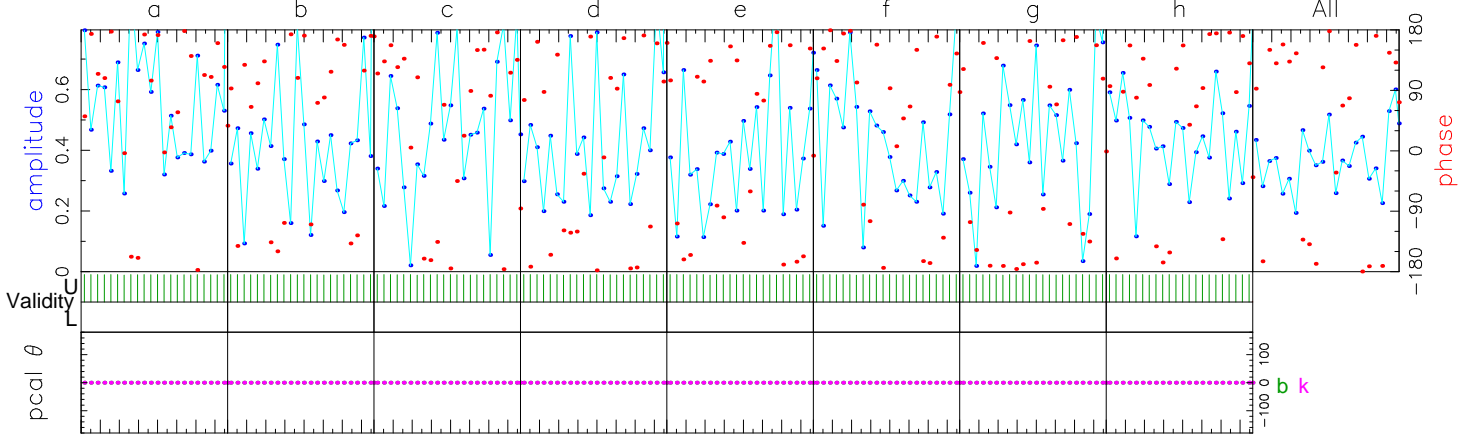
Fringe quality 9

SNR 15.2
Int time 436.726
Amp 0.266
Phase 156.0
PFD 3.3e-43
Delays (us)
SBD 0.002128
MBD 0.000847
Fringe rate (Hz)
-0.000407
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120750
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

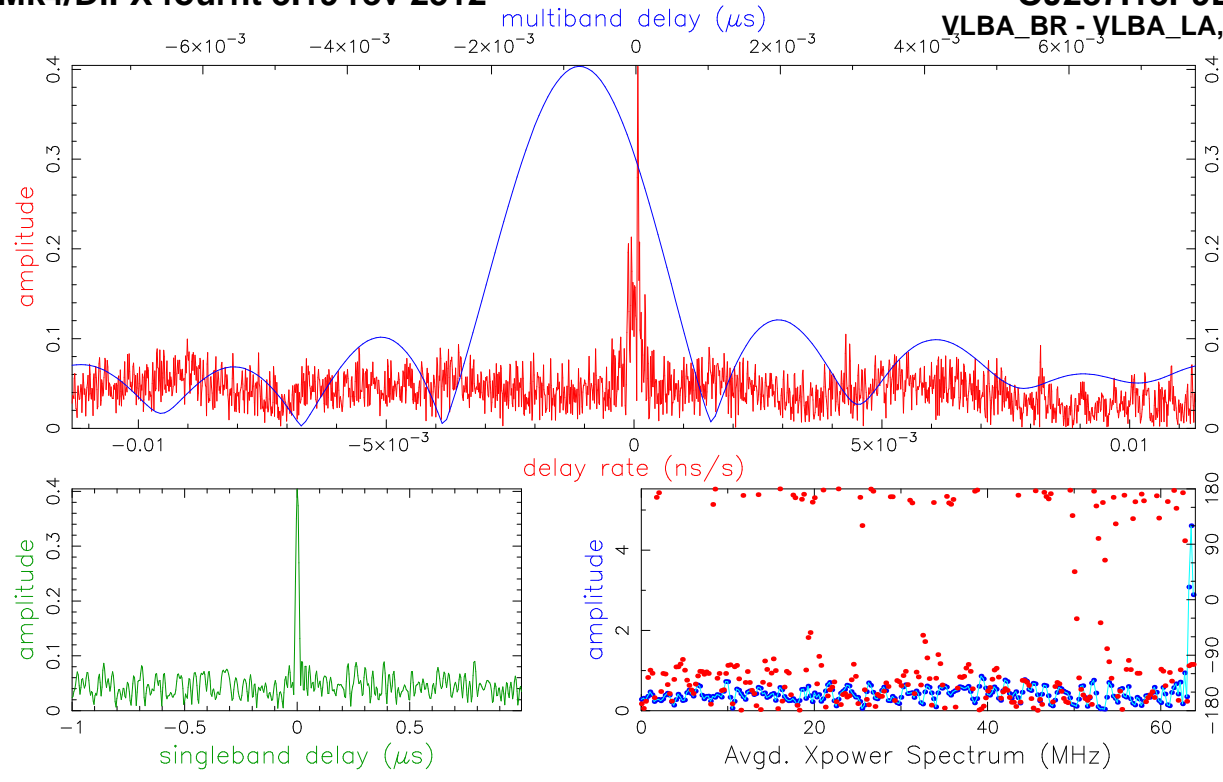


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.28141661080E+03	Apriori delay (usec)	-2.28141745746E+03	Resid mbdelay (usec)	8.46656E-04	+/-	7.2E-05
Sband delay (usec)	-2.28141532971E+03	Apriori clock (usec)	-1.0578210E+00	Resid sbdelay (usec)	2.12775E-03	+/-	5.7E-04
Phase delay (usec)	-2.28141745243E+03	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	5.03190E-06	+/-	2.4E-07
Delay rate (us/s)	-1.21405124913E-01	Apriori rate (us/s)	-1.21405120182E-01	Resid rate (us/s)	-4.73033E-09	+/-	9.6E-10
Total phase (deg)	-126.7	Apriori accel (us/s/s)	2.04462536050E-05	Resid phase (deg)	156.0	+/-	7.6

ph/seg (deg)	54.8	RMS	18.1	Theor.	18.1	Amplitude	0.266 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	54.6	Search (2048X32)	0.245	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	16.5	Inc. seg. avg.	0.353	Inc. frq. avg.	0.264	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	10.4	Inc. frq. avg.	0.264													

b: az 99.1 el 35.1 pa -44.6 k: az 91.6 el 42.9 pa -64.5 u,v (fr/asec) 771.244 2373.911 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bk..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bk.W.7.18P9EC

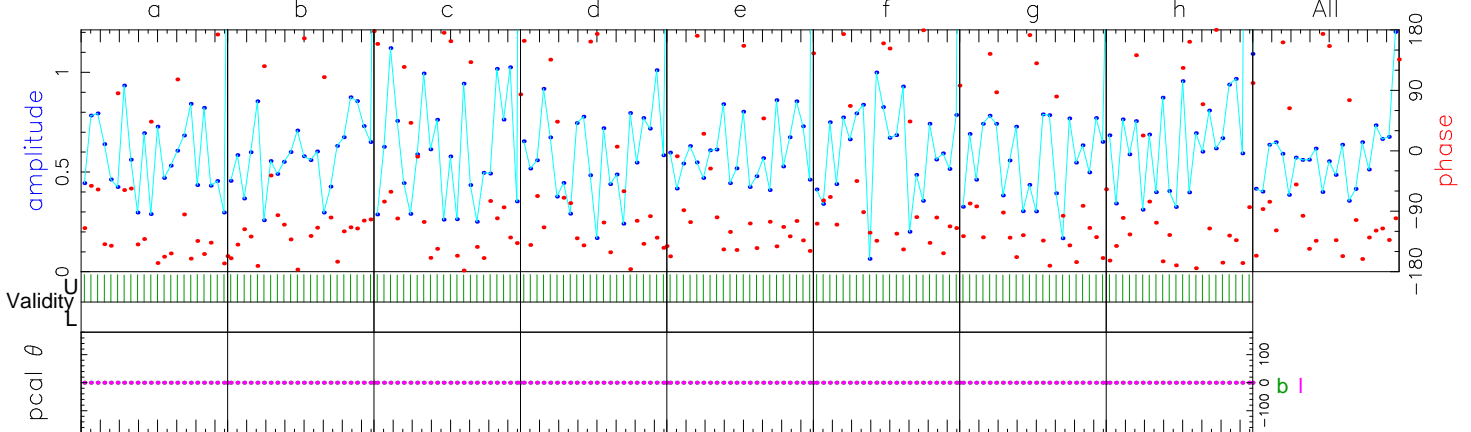


Fringe quality 9

SNR 23.1
Int time 436.384
Amp 0.404
Phase -129.1
PFD 0.0e+00
Delays (us)
SBD 0.000595
MBD -0.000781
Fringe rate (Hz) 0.006385
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

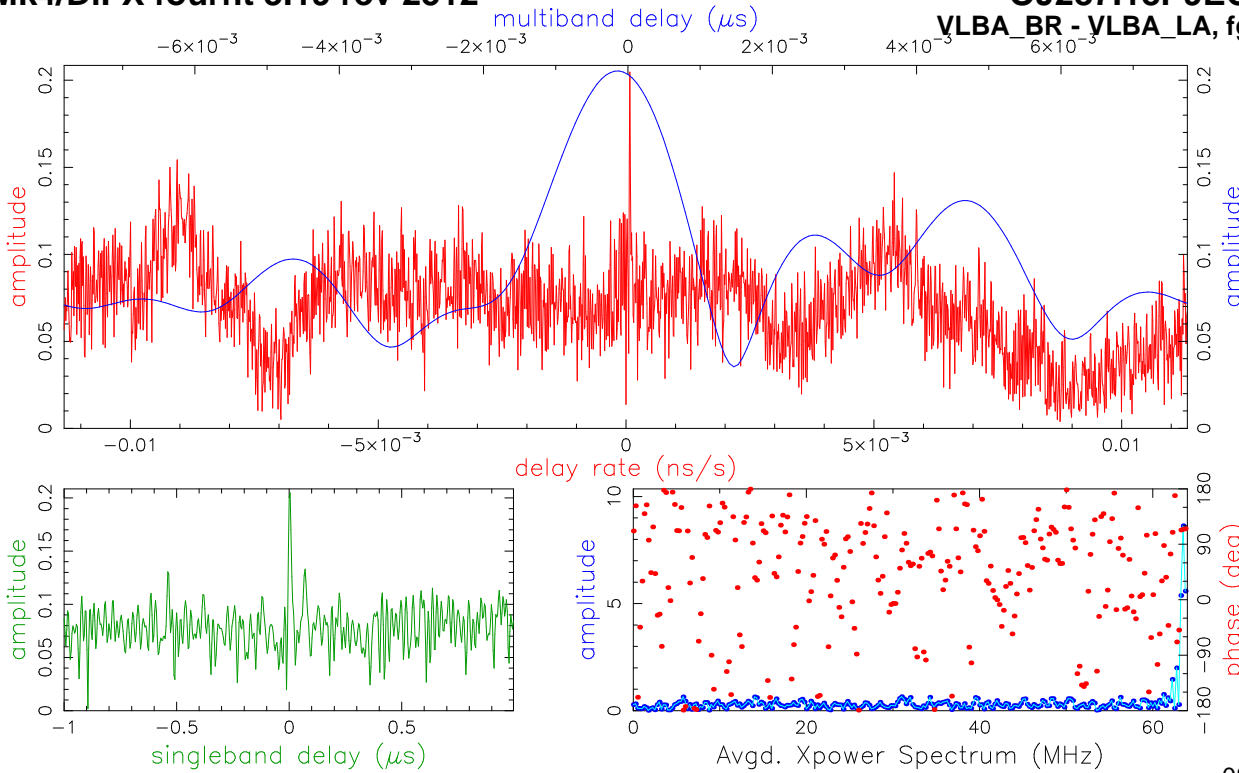
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120755
2020:014:135814
RA & Dec (J2000)
08h54m48.8749285"
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-128.4	-130.6	-124.5	-131.5	-126.3	-128.0	-143.2	-123.3	Phase	-129.1
	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.6	Ampl.	0.4
	256.9	256.8	257.3	256.7	256.3	256.3	256.6	258.1	Sbd box	257.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.32294793099E+03		Apriori delay (usec)		-3.32294714993E+03		Resid mbdelay (usec)		-7.81064E-04	+/- 4.7E-05
Sband delay (usec)	-3.32294655493E+03		Apriori clock (usec)		2.2848878E+07		Resid sbdelay (usec)		5.95000E-04	+/- 3.7E-04
Phase delay (usec)	-3.32294715409E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-4.16338E-06	+/- 1.6E-07
Delay rate (us/s)	-4.92638080166E-03		Apriori rate (us/s)		-4.92645492670E-03		Resid rate (us/s)		7.41250E-08	+/- 6.3E-10
Total phase (deg)			Apriori accel (us/s/s)		2.38649231658E-05		Resid phase (deg)		-129.1	+/- 5.0

ph/seg (deg) 61.3 11.9 Search (2048X32) 0.386 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.1 20.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.7 7.0 Inc. seg. avg. 0.565 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 19.1 12.2 Inc. frq. avg. 0.402 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 99.1 el 35.1 pa -44.6 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 67.652 2015.272 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bl.W.28.18P9EC

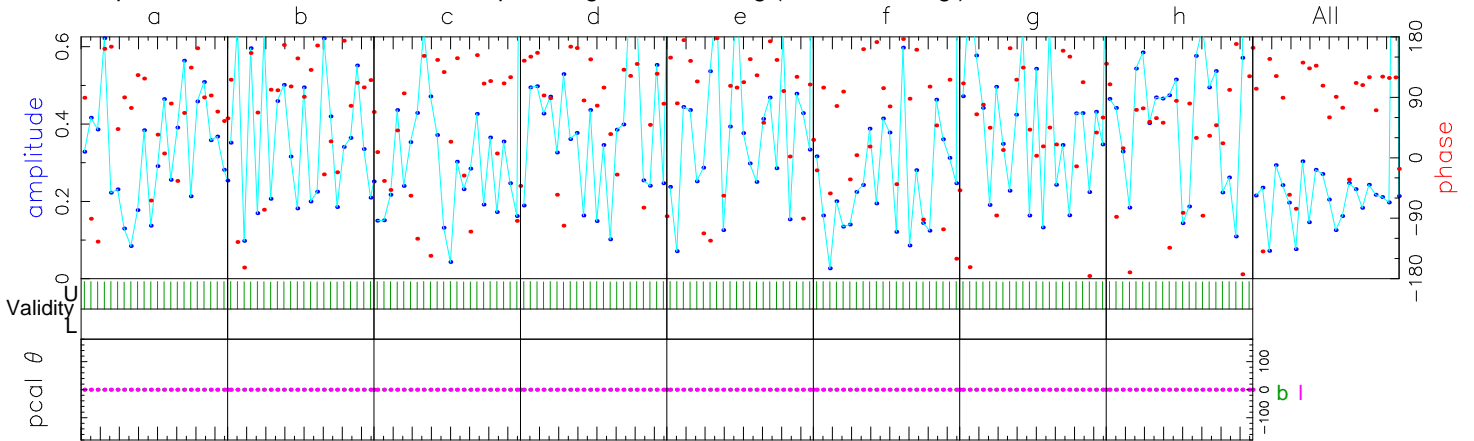


Fringe quality 9

SNR 11.9
Int time 436.385
Amp 0.209
Phase 114.0
PFD 5.1×10^{-24}
Delays (us)
SBD 0.002291
MBD -0.000063
Fringe rate (Hz) 0.006679
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

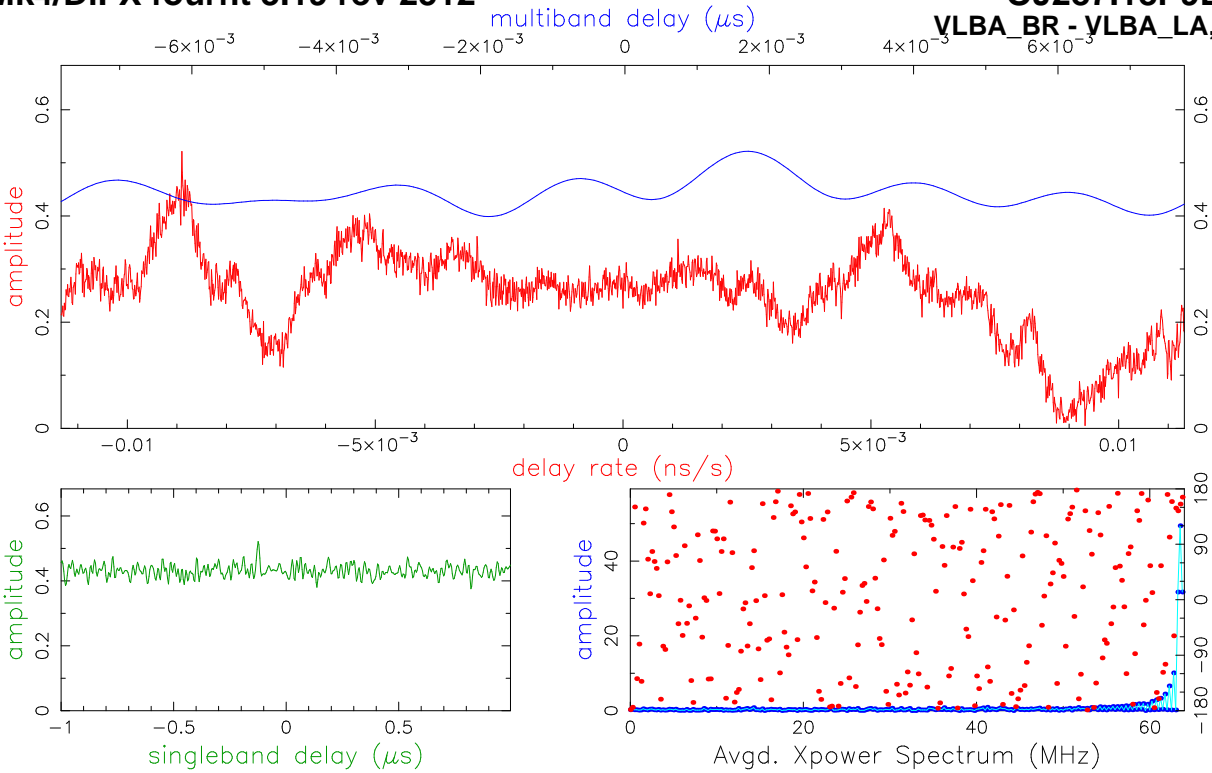
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120801
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



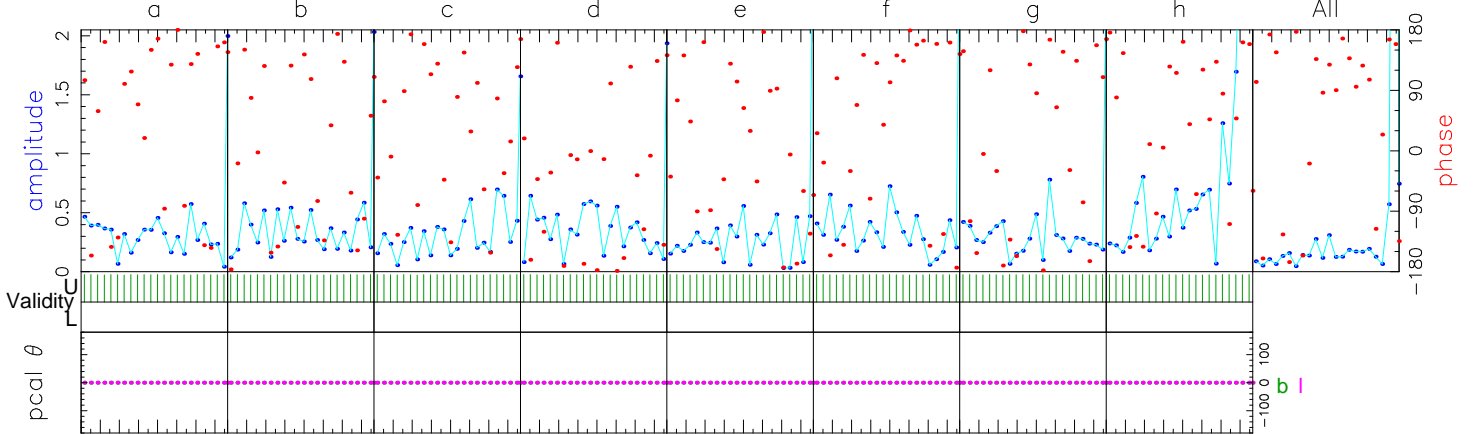
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	0:0
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.32294721252E+03		Apriori delay (usec)		-3.32294714993E+03		Resid mbdelay (usec)		-6.25952E-05	+/- 9.1E-05
Sband delay (usec)	-3.32294485918E+03		Apriori clock (usec)		2.2848878E+00		Resid sbdelay (usec)		2.29075E-03	+/- 7.2E-04
Phase delay (usec)	-3.32294714625E+03		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		3.67688E-06	+/- 3.1E-07
Delay rate (us/s)	-4.92637738712E-03		Apriori rate (us/s)		-4.92645492670E-03		Resid rate (us/s)		7.75396E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.38649231658E-05		Resid phase (deg)		114.0	+/- 9.6

ph/seg (deg) 67.7 23.1 Amplitude 0.209 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 160.3 40.3 Search (2048X32) 0.201 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.2 13.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 89.8 23.7 Inc. seg. avg. 0.257 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 67.652 2015.272 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bl.W.53.18P9EC simultaneous interpolator

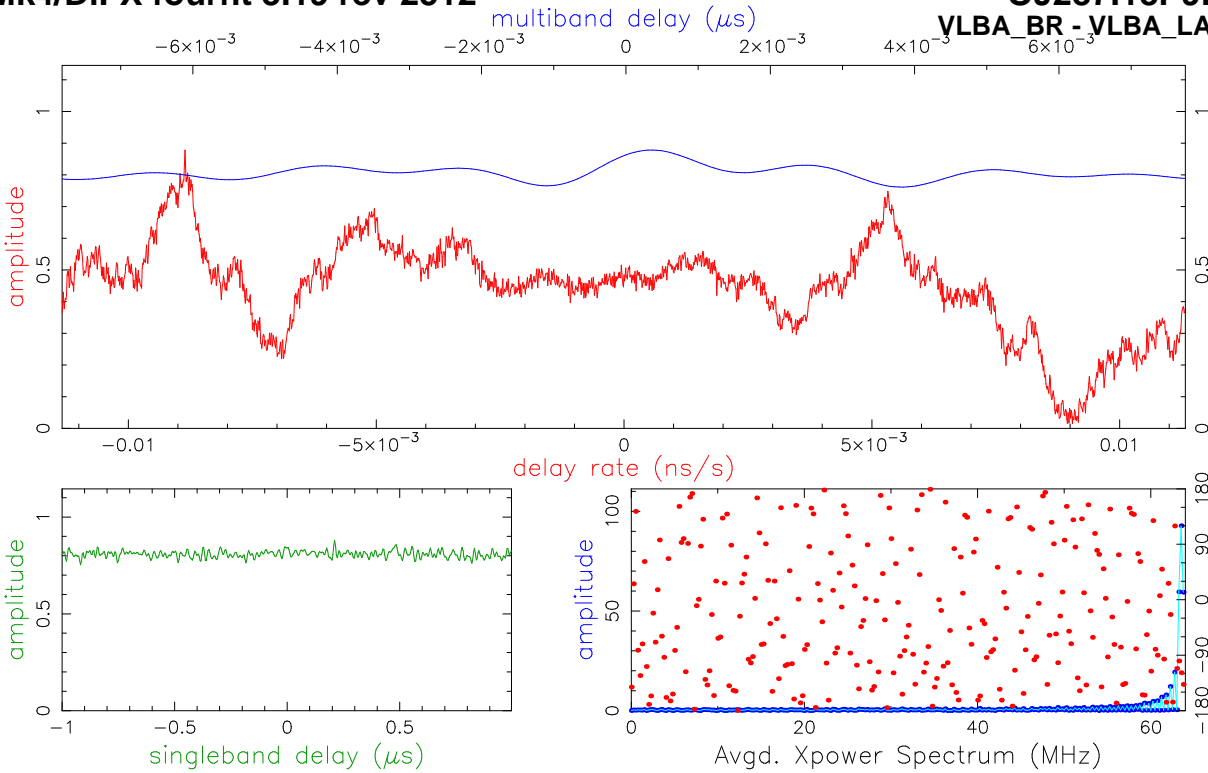


Fringe quality 3
SNR 29.8
Int time 436.384
Amp 0.684
Phase 156.3
PFD 0.0e+00
Delays (us)
SBD -0.124096
MBD 0.001651
Fringe rate (Hz)
-0.768234
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120805
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

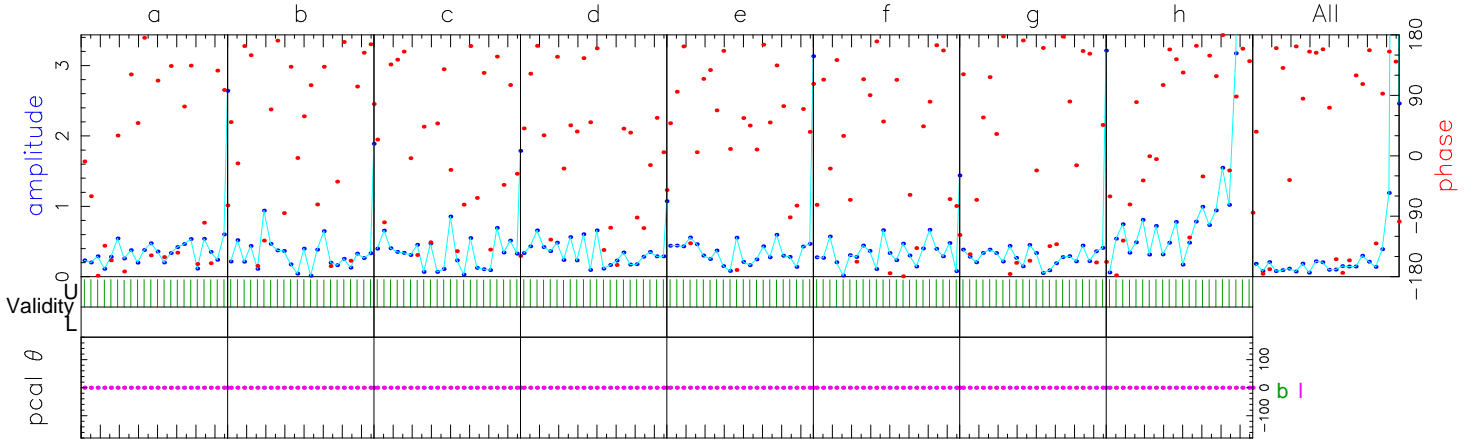


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.32307049941E+03								Resid mbdelay (usec)	1.65051E-03 +/- 3.6E-05
Sband delay (usec)	-3.32307124568E+03								Resid sbdelay (usec)	-1.24096E-01 +/- 2.9E-04
Phase delay (usec)	-3.32294714488E+03								Resid phdelay (usec)	5.04181E-06 +/- 1.2E-07
Delay rate (us/s)	-4.93537336574E-03								Resid rate (us/s)	-8.91844E-06 +/- 4.9E-10
Total phase (deg)			-21.7						Resid phase (deg)	156.3 +/- 3.8
	RMS	Theor.	Amplitude	0.684 +/- 0.023					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	63.8	9.2	Search (2048X32)	0.510					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	362.7	16.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	40.0	5.4	Inc. seg. avg.	0.743					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	217.6	9.5	Inc. frq. avg.	0.697					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite



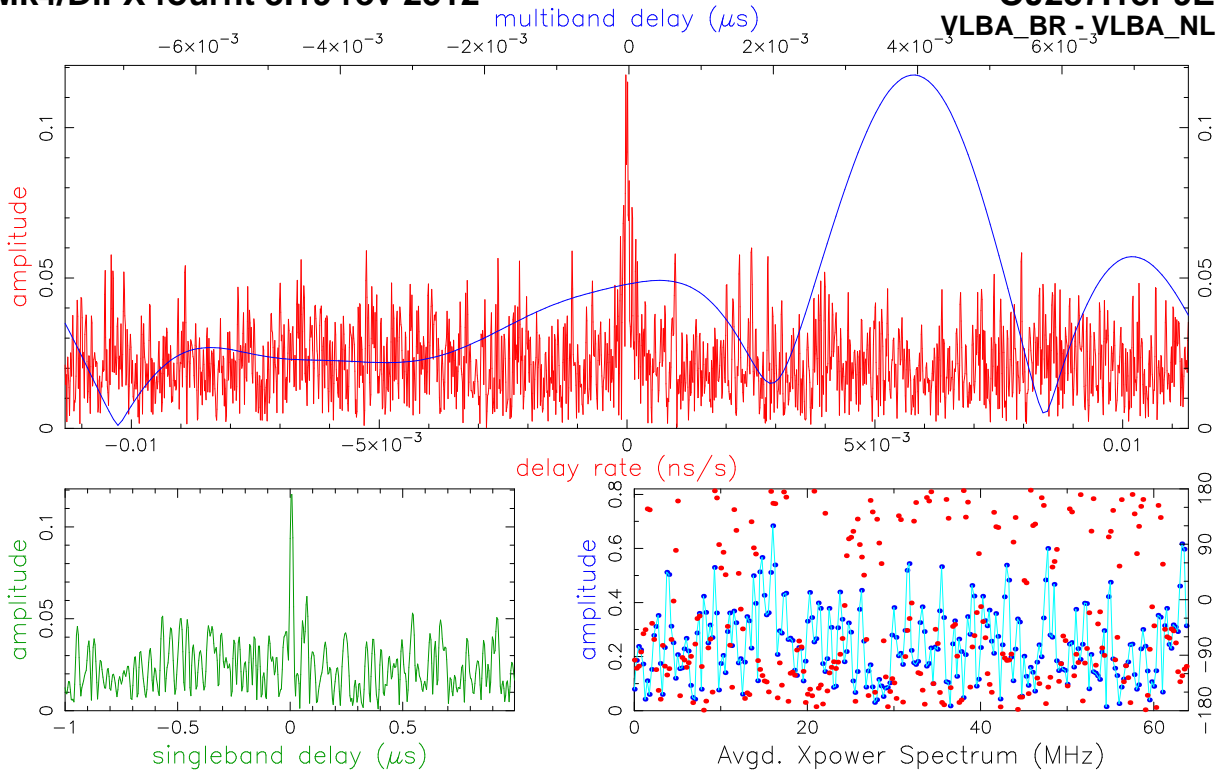
Fringe quality 1
SNR 50.2
Int time 436.385
Amp 1.146
Phase 141.3
PFD 0.0e+00
Delays (us)
SBD 0.210667
MBD 0.000378
Fringe rate (Hz)
-0.763824
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120750
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



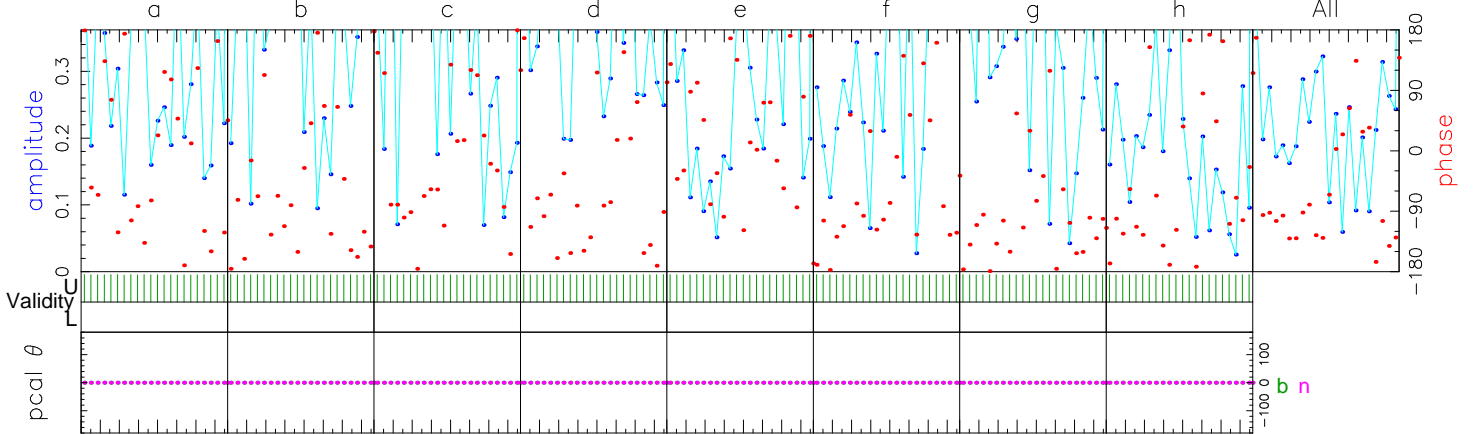
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	-3.32274364647E+03									
Sband delay (usec)	-3.32273648318E+03									
Phase delay (usec)	-3.32294714537E+03									
Delay rate (us/s)	-4.93532216608E-03									
Total phase (deg)			-36.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 60.1 5.5 Search (2048X32) 0.862 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 381.1 9.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.4 3.2 Inc. seg. avg. 1.222 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 239.3 5.6 Inc. frq. avg. 1.160 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 99.1 el 35.1 pa -44.6 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 67.652 2015.272 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bl.W.9.18P9EC



Fringe quality 0
SNR 6.9
Int time 436.227
Amp 0.121
Phase -115.4
PFD 1.6e-03
Delays (us)
SBD 0.005869
MBD 0.003949
Fringe rate (Hz)
-0.001993
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120751
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

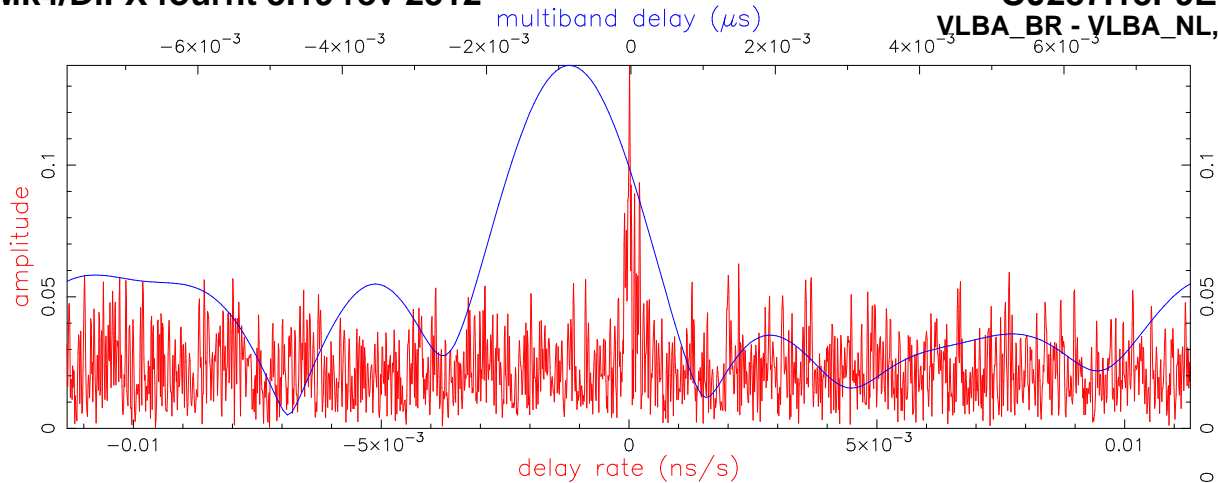
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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)	-5.32953981676E+03								3.94920E-03	+/- 1.6E-04
Sband delay (usec)	-5.32953789721E+03								5.86875E-03	+/- 1.2E-03
Phase delay (usec)	-5.32954376968E+03								-3.71992E-06	+/- 5.4E-07
Delay rate (us/s)	2.83333742363E-01								-2.31379E-08	+/- 2.1E-09
Total phase (deg)			-115.2						-115.4	+/- 16.6
Apriori delay (usec)					-5.32954376596E+03					
Apriori clock (usec)					-3.3652512E+01					
Apriori clockrate (us/s)					-3.7599999E-07					
Apriori rate (us/s)					2.83333765501E-01					
Apriori accel (us/s/s)					3.11983412247E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

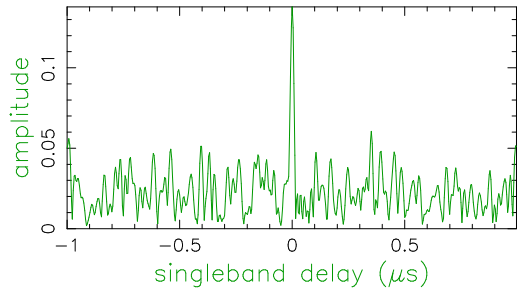
ph/seg (deg) 78.7 39.9 Search (2048X32) 0.117 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 108.0 69.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 59.7 23.5 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.3 41.0 Inc. frq. avg. 0.115 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1676.156 1557.323 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bn.W.11.18P9EC

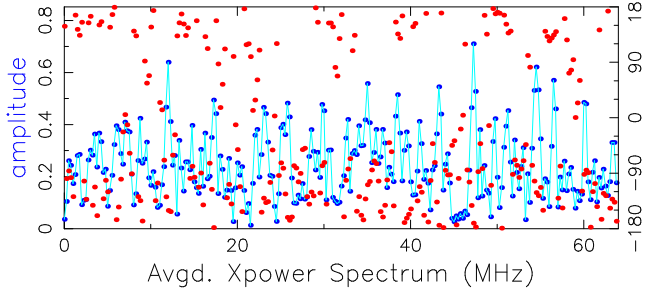


Fringe quality 9

SNR 7.9
Int time 436.227
Amp 0.138
Phase -135.2
PFD 1.1e-06
Delays (us)
SBD -0.000040
MBD -0.000857
Fringe rate (Hz) 0.000503
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

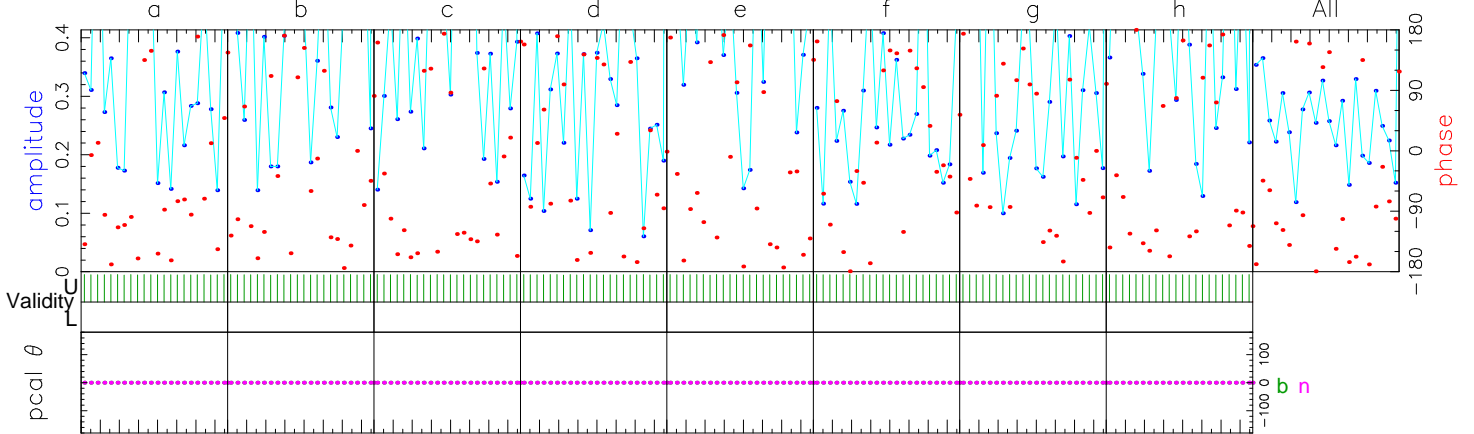


delay rate (ns/s)



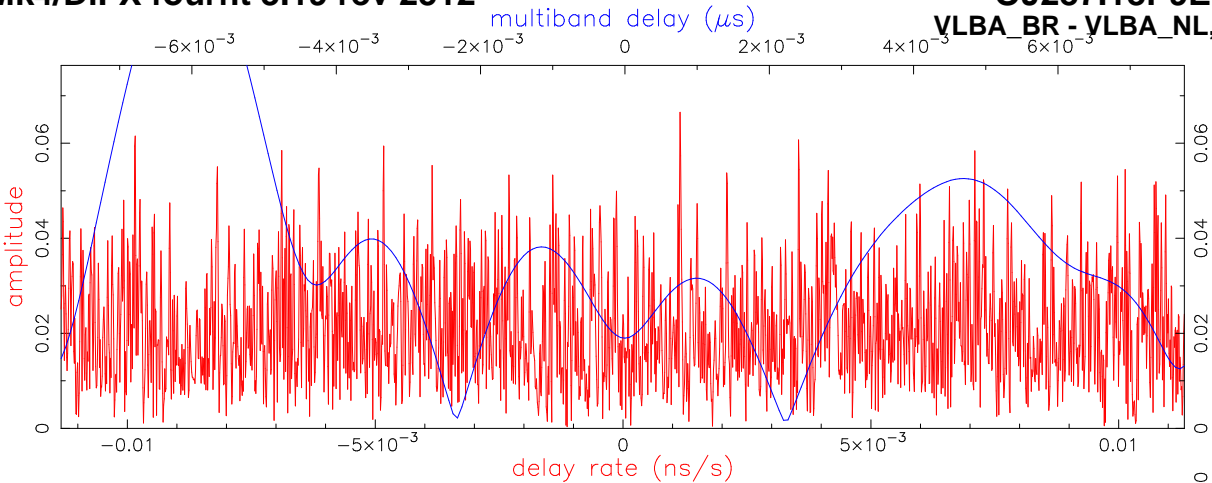
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



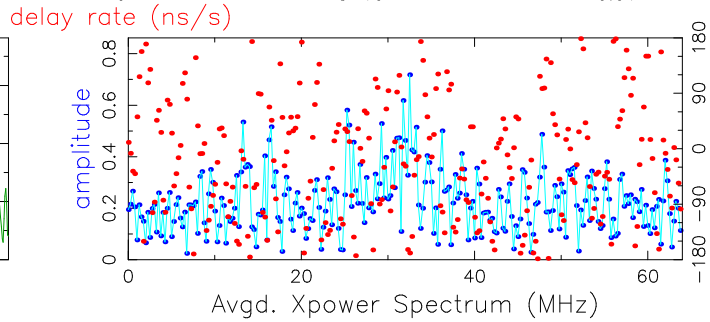
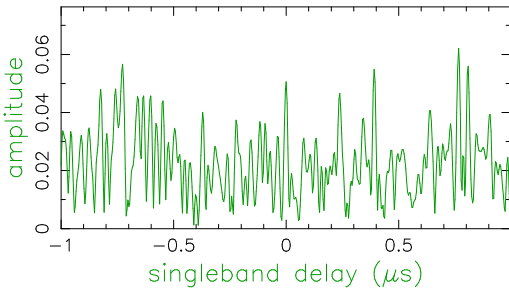
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.3	-138.2	-138.9	-172.1	-125.2	167.1	-104.8	-135.4	Phase	-135.2
	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	159.1	255.8	256.6	112.5	256.6	216.6	128.7	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	Manl 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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.32954462293E+03		Apriori delay (usec)		-5.32954376596E+03		Resid mbdelay (usec)		-8.56973E-04	+/- 1.4E-04
Sband delay (usec)	-5.32954380646E+03		Apriori clock (usec)		-3.3652512E+01		Resid sbdelay (usec)		-4.05000E-05	+/- 1.1E-03
Phase delay (usec)	-5.32954377032E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-4.36057E-06	+/- 4.7E-07
Delay rate (us/s)	2.83333771335E-01		Apriori rate (us/s)		2.83333765501E-01		Resid rate (us/s)		5.83426E-09	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		3.11983412247E-05		Resid phase (deg)		-135.2	+/- 14.5

	RMS	Theor.	Amplitude	0.138 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.7	34.9	Search (2048X32)	0.129	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	98.2	60.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	31.8	20.6	Inc. seg. avg.	0.215	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	49.6	35.9	Inc. frq. avg.	0.137	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



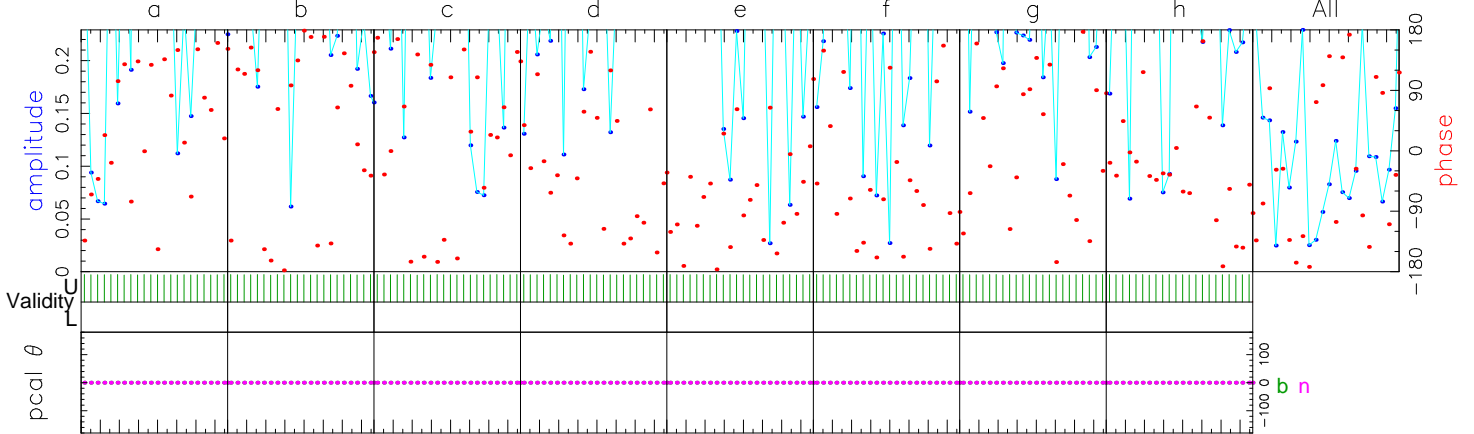
Fringe quality 0

SNR 2.9
Int time 436.227
Amp 0.076
Phase -123.7
PFD 1.0e+00
Delays (us)
SBD 0.000000
MBD 0.008301
Fringe rate (Hz)
0.936938
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



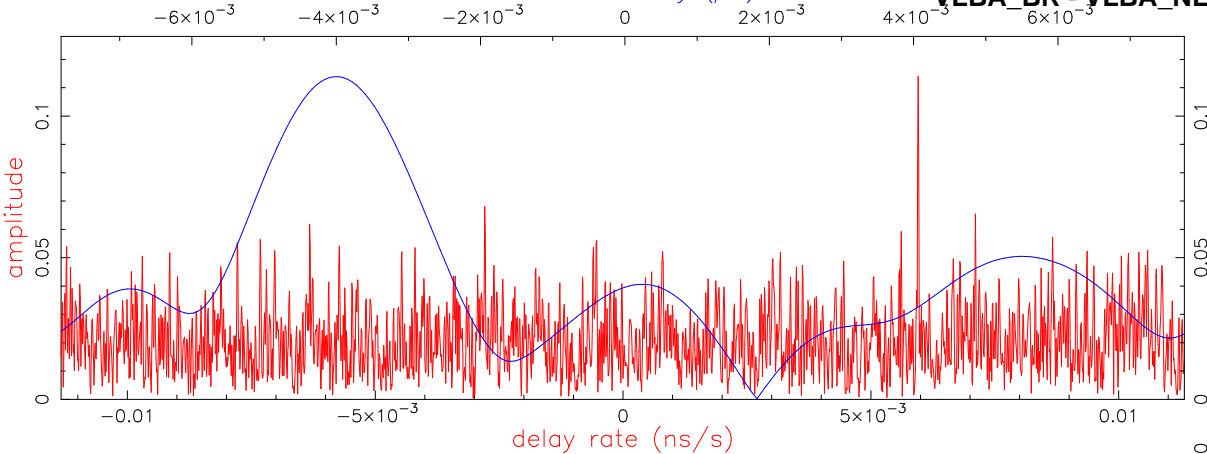
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120801
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



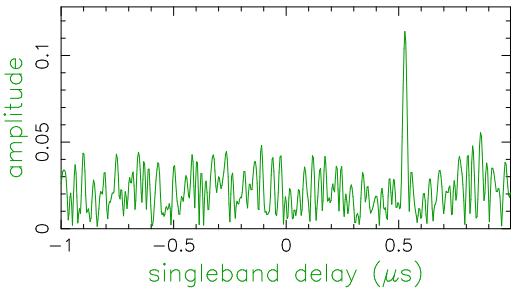
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	-5.32955109018E+03								8.30078E-03	+/- 3.8E-04
Sband delay (usec)	-5.32954376596E+03								0.00000E+00	+/- 3.0E-03
Phase delay (usec)	-5.32954376995E+03								-3.99029E-06	+/- 1.3E-06
Delay rate (us/s)	2.83344642418E-01								1.08769E-05	+/- 5.0E-09
Total phase (deg)			-123.6						-123.7	+/- 39.7
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
PC period (AP's) 5, 5										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.076 +/- 0.026										
0.104										
0.000										
0.071										
0.122										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
SampCntNorm: enabled										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
simultaneous interpolator										

multiband delay (μ s)

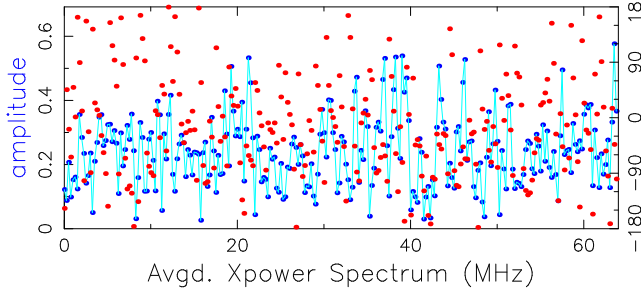


Fringe quality 0

SNR 6.5
Int time 436.227
Amp 0.128
Phase -26.2
PFD 2.1e-02
Delays (us)
SBD 0.527764
MBD -0.003996
Fringe rate (Hz)
0.513830
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

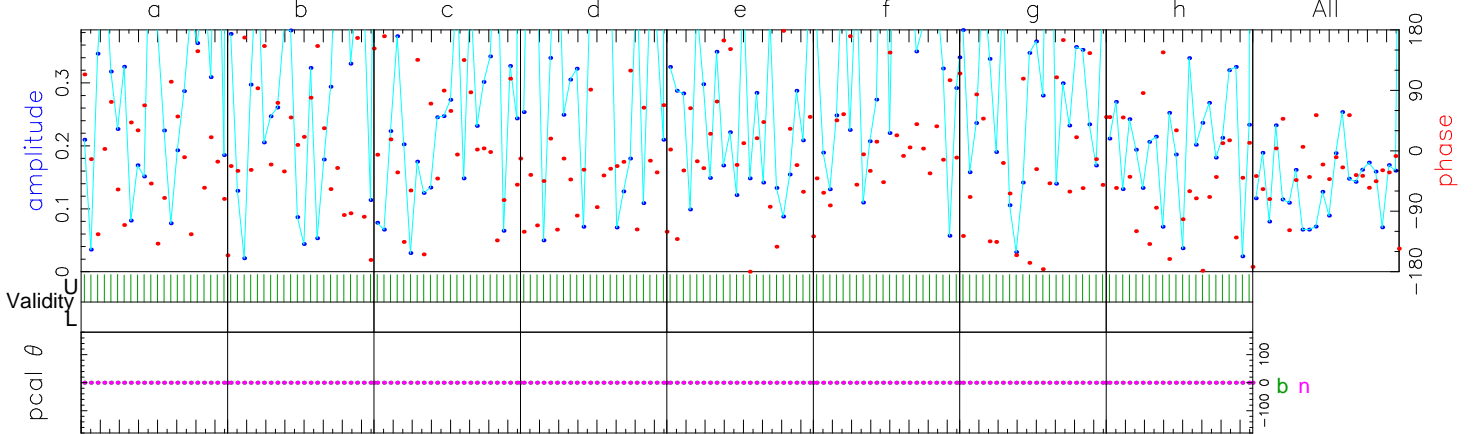


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120805
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



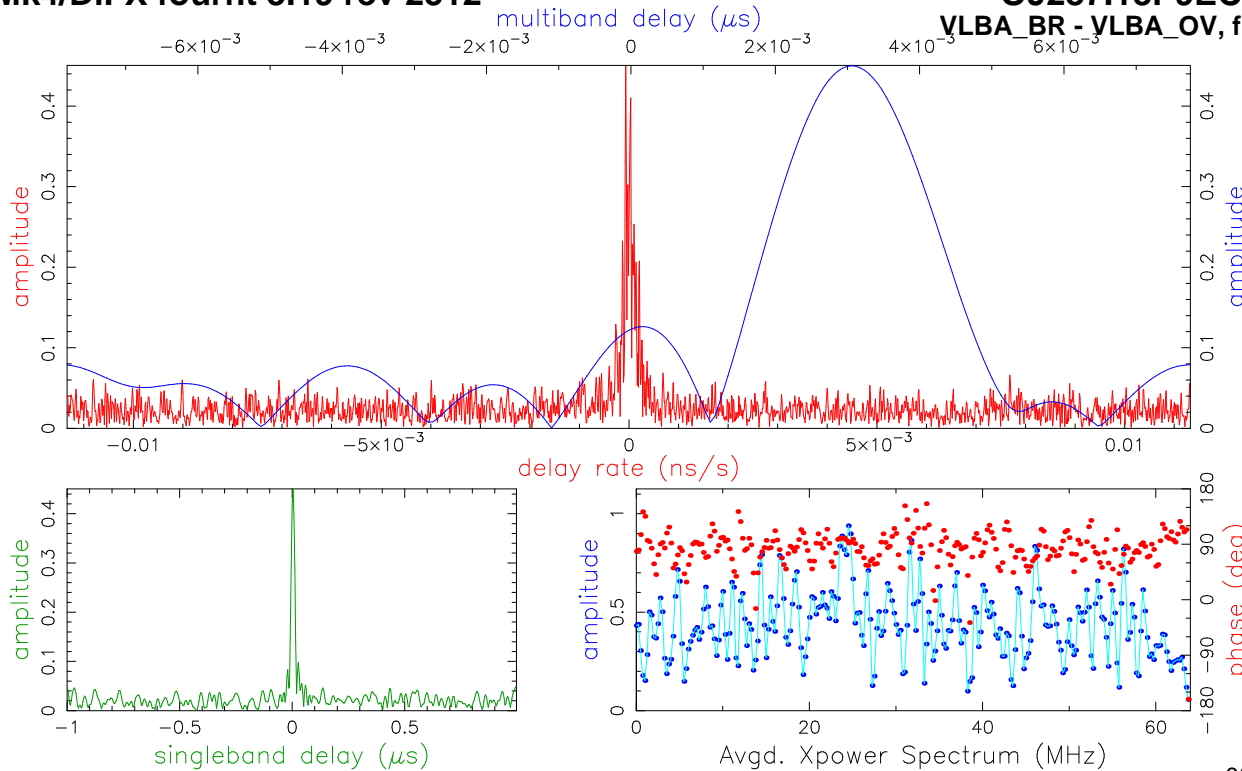
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.8	-28.7	12.9	-51.3	-1.8	-4.0	-57.2	-57.1	Phase	-26.2
	0.1	0.1	0.1	0.2	0.1	0.3	0.1	0.1	Ampl.	0.1
	394.7	196.2	174.9	392.0	424.6	391.8	249.8	111.9	Sbd box	392.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	

Group delay (usec)(sbd)	-5.32901651216E+03	Apriori delay (usec)	-5.32954376596E+03	Resid mbdelay (usec)	-3.99620E-03	+/-	1.7E-04
Sband delay (usec)	-5.32901600221E+03	Apriori clock (usec)	-3.3652512E+01	Resid sbdelay (usec)	5.27764E-01	+/-	1.3E-03
Phase delay (usec)	-5.32954376680E+03	Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	-8.46067E-07	+/-	5.7E-07
Delay rate (us/s)	2.83339730560E-01	Apriori rate (us/s)	2.83333765501E-01	Resid rate (us/s)	5.96506E-06	+/-	2.2E-09
Total phase (deg)	-26.0	Apriori accel (us/s/s)	3.11983412247E-05	Resid phase (deg)	-26.2	+/-	17.6

ph/seg (deg)	39.7	Theor.	Amplitude	0.128 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	53.2	42.2	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	29.8	24.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	57.7	43.4	Inc. seg. avg.	0.123	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.128	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 99.1 el 35.1 pa -44.6 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1676.156 1557.323 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bn..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bn.W.72.18P9EC

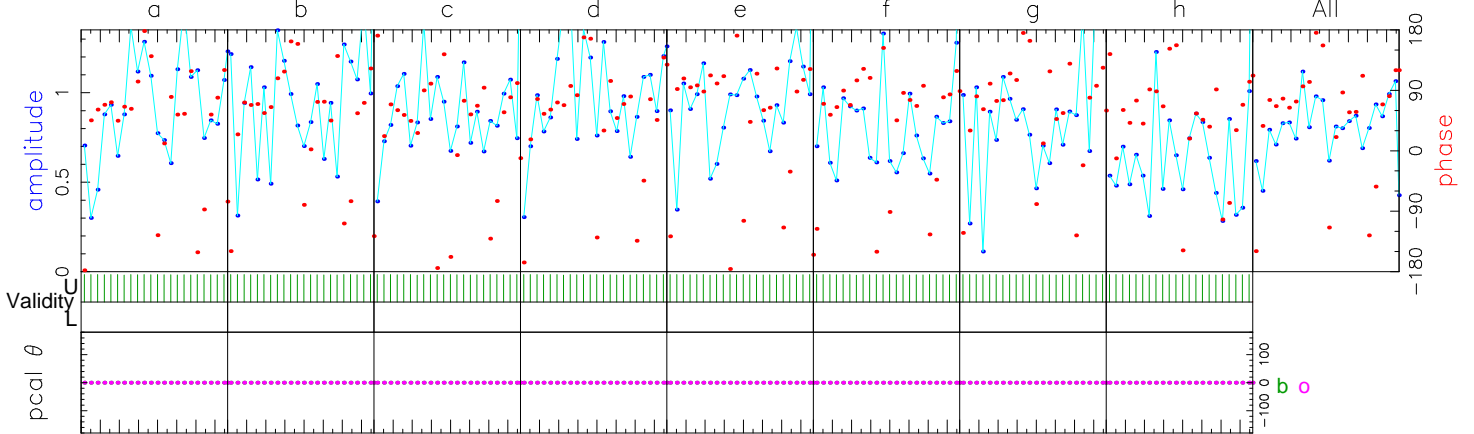


Fringe quality 7

SNR 25.7
Int time 436.707
Amp 0.451
Phase 89.2
PFD 0.0e+00
Delays (us)
SBD 0.003441
MBD 0.003045
Fringe rate (Hz)
-0.005857
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120752
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

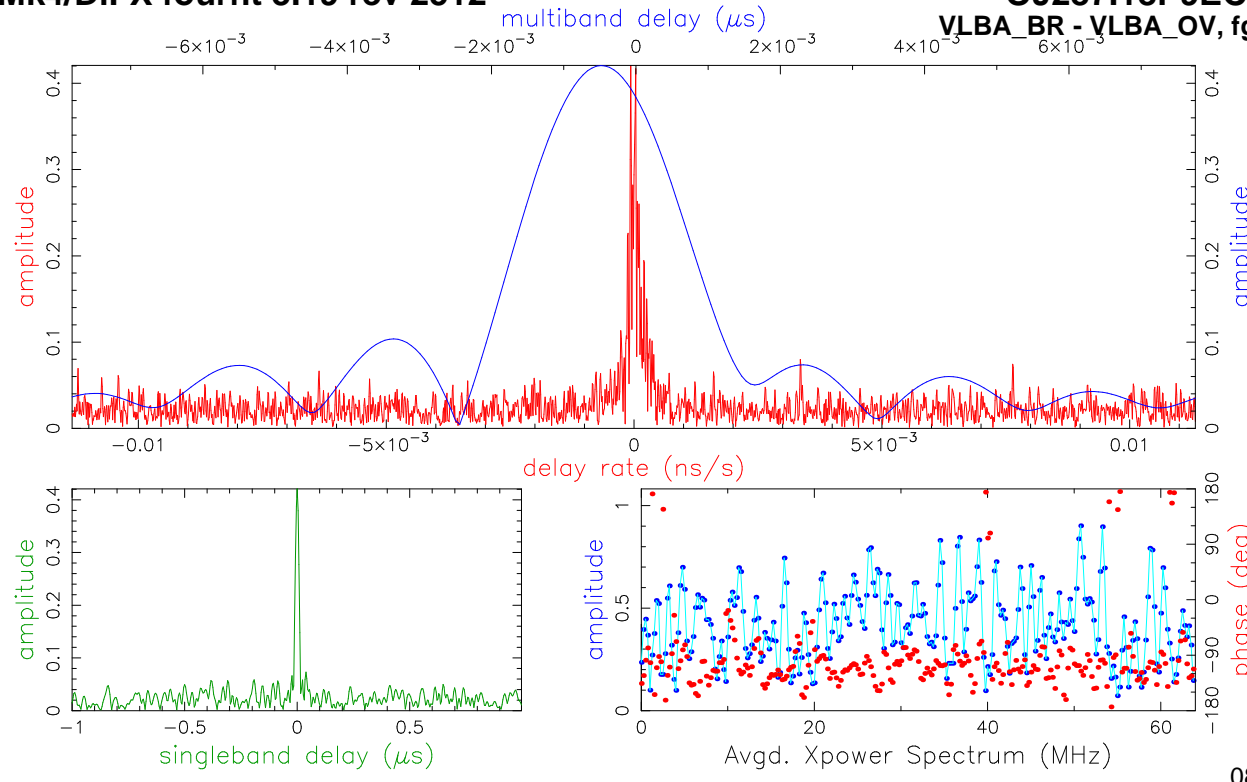
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.95128816687E+02				-6.95131862152E+02				3.04547E-03	+/- 4.2E-05
Sband delay (usec)	-6.95128421402E+02				-2.1468208E+01				3.44075E-03	+/- 3.3E-04
Phase delay (usec)	-6.95131859277E+02				-2.4300001E-07				2.87501E-06	+/- 1.4E-07
Delay rate (us/s)	-1.43774957172E-01				-1.43774889178E-01				-6.79932E-08	+/- 5.7E-10
Total phase (deg)			-128.9		8.97857382722E-06				89.2	+/- 4.5
	RMS	Theor.	Amplitude	0.451 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	69.5	10.7	Search (2048X32)	0.443	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	89.5	18.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	12.5	6.3	Inc. seg. avg.	0.811	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	13.0	11.0	Inc. frq. avg.	0.455	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.13.18P9EC

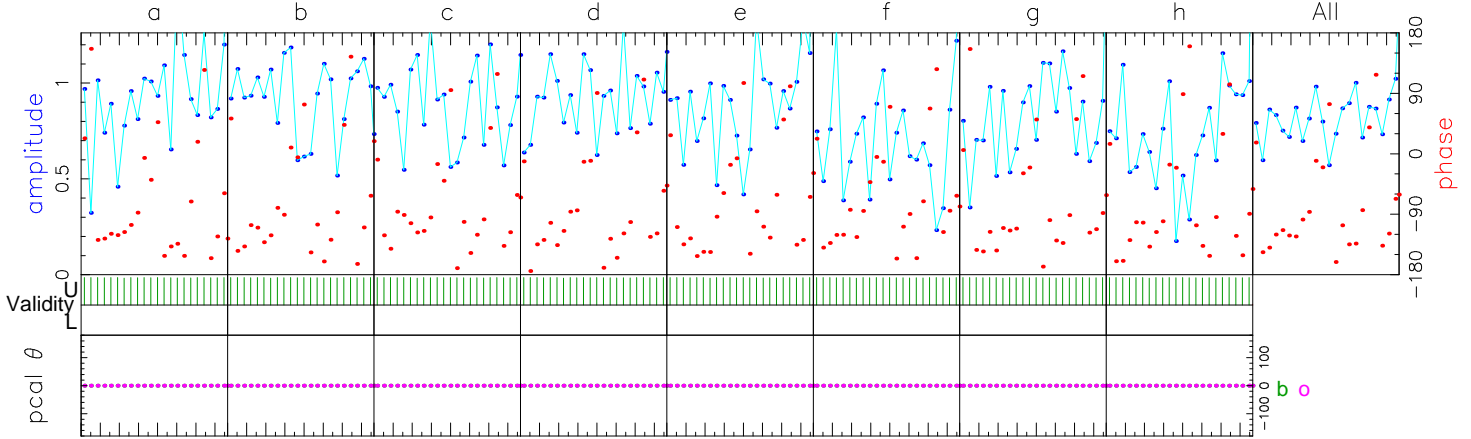


Fringe quality 7

SNR 24.0
Int time 436.707
Amp 0.421
Phase -106.1
PFD 0.0e+00
Delays (us)
SBD -0.000219
MBD -0.000484
Fringe rate (Hz)
-0.005819
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

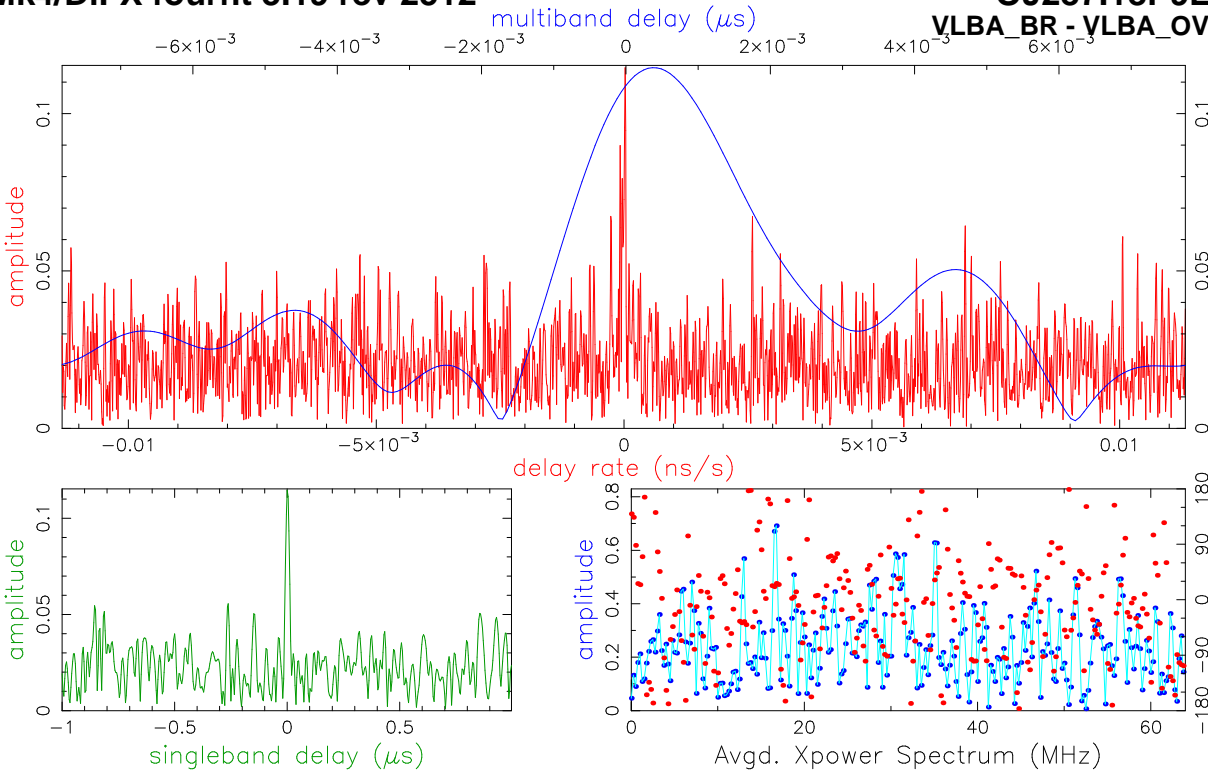
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



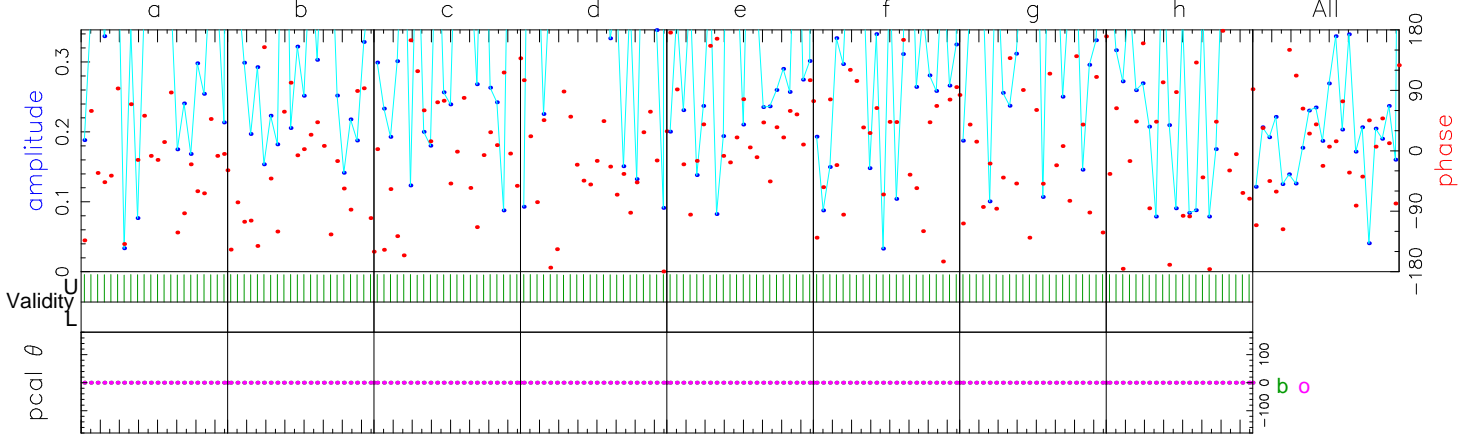
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-109.0	-114.9	-100.0	-107.4	-102.3	-87.1	-110.5	-119.2	Phase	-106.1
	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.3	Ampl.	0.4
	256.7	256.8	257.0	256.9	257.1	257.1	256.8	257.1	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.95132346093E+02		Apriori delay (usec)		-6.95131862152E+02		Resid mbdelay (usec)		-4.83941E-04	+/- 4.5E-05
Sband delay (usec)	-6.95132081402E+02		Apriori clock (usec)		-2.1468208E+01		Resid sbdelay (usec)		-2.19250E-04	+/- 3.6E-04
Phase delay (usec)	-6.95131865575E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-3.42287E-06	+/- 1.5E-07
Delay rate (us/s)	-1.43774956727E-01		Apriori rate (us/s)		-1.43774889178E-01		Resid rate (us/s)		-6.75482E-08	+/- 6.1E-10
Total phase (deg)	-324.2		Apriori accel (us/s/s)		8.97857382722E-06		Resid phase (deg)		-106.1	+/- 4.8

ph/seg (deg) 72.5 11.4 Search (2048X32) 0.418 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 97.8 19.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.7 6.7 Inc. seg. avg. 0.799 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.8 11.8 Inc. frq. avg. 0.423 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 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.32.18P9EC



Fringe quality 0
SNR 6.6
Int time 436.707
Amp 0.115
Phase 0.1
PFD 1.2e-02
Delays (us)
SBD 0.001167
MBD 0.000357
Fringe rate (Hz) 0.002328
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120800
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

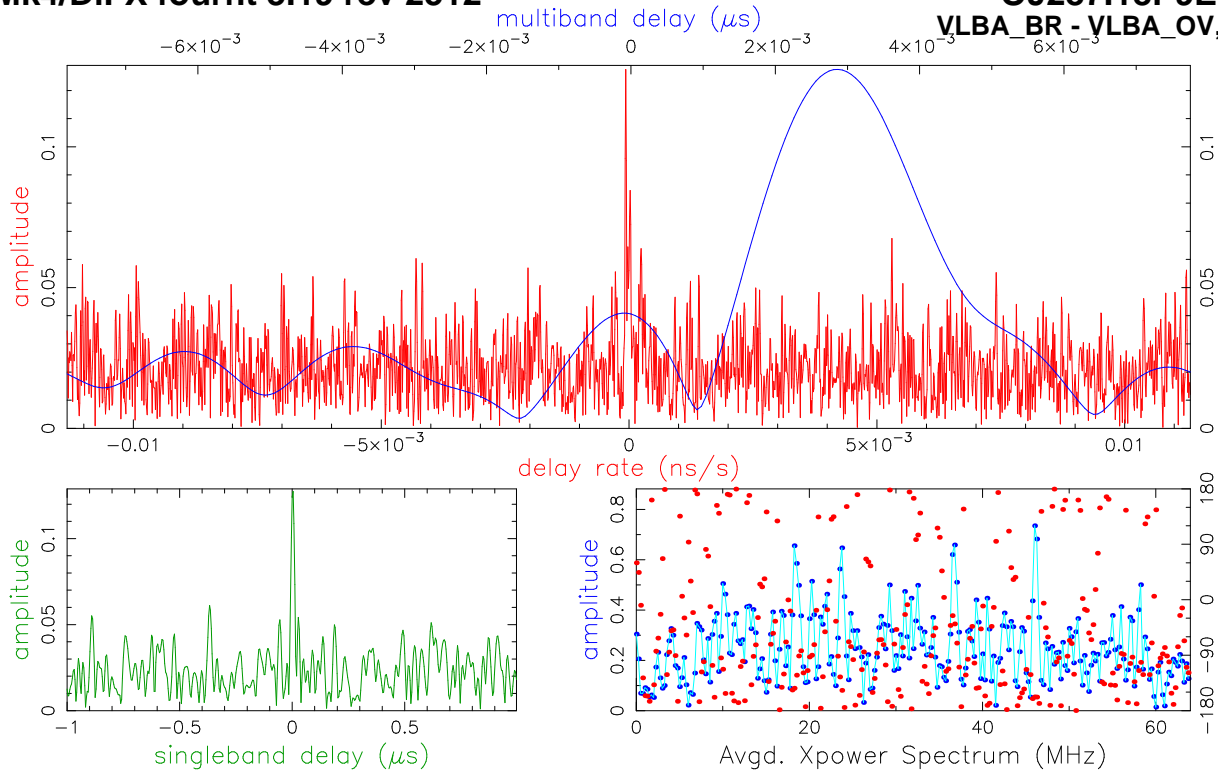


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		257.3
b	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.1
o	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	0.1
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	257.3
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
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)	-6.95131505229E+02				-6.95131862152E+02				Resid mbdelay (usec)	3.56923E-04 +/- 1.6E-04
Sband delay (usec)	-6.95130695652E+02				-2.1468208E+01				Resid sbdelay (usec)	1.16650E-03 +/- 1.3E-03
Phase delay (usec)	-6.95131862148E+02				-2.4300001E-07				Resid phdelay (usec)	4.16480E-09 +/- 5.6E-07
Delay rate (us/s)	-1.43774862149E-01				-1.43774889178E-01				Resid rate (us/s)	2.70293E-08 +/- 2.2E-09
Total phase (deg)		-218.0			8.97857382722E-06				Resid phase (deg)	0.1 +/- 17.4

ph/seg (deg) 67.6 41.7 Search (2048X32) 0.110 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 93.5 72.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 34.8 24.6 Inc. seg. avg. 0.156 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.0 42.9 Inc. frq. avg. 0.115 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.48.18P9EC

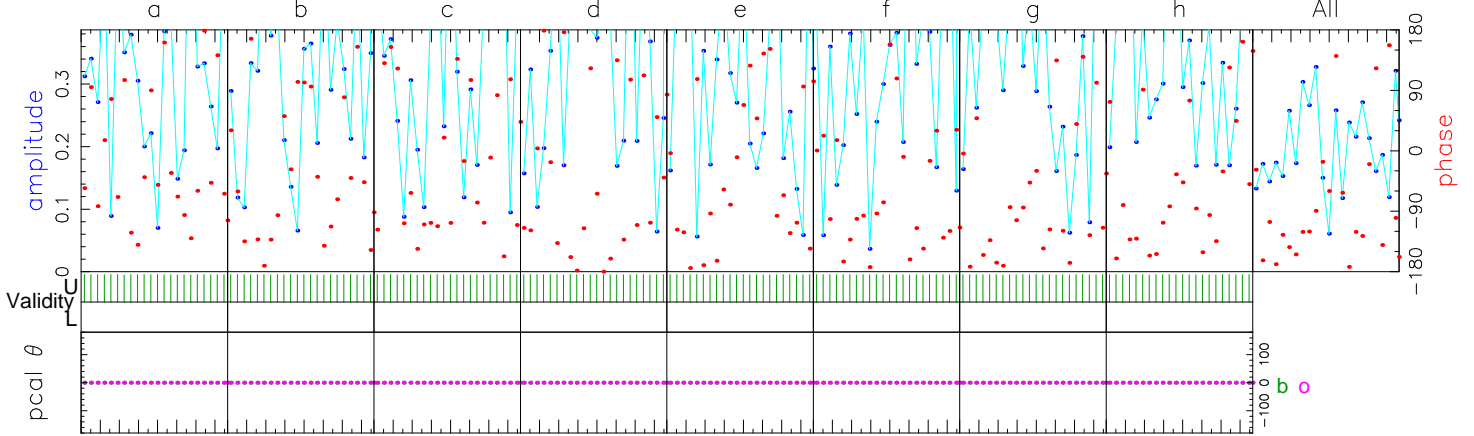
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bo
VLBA_BR - VLBA_OV, fgroup W, pol RL



Fringe quality 9
SNR 7.4
Int time 436.707
Amp 0.129
Phase -126.4
PFD 5.5e-05
Delays (us)
SBD 0.002514
MBD 0.002834
Fringe rate (Hz)
-0.005772
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120805
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

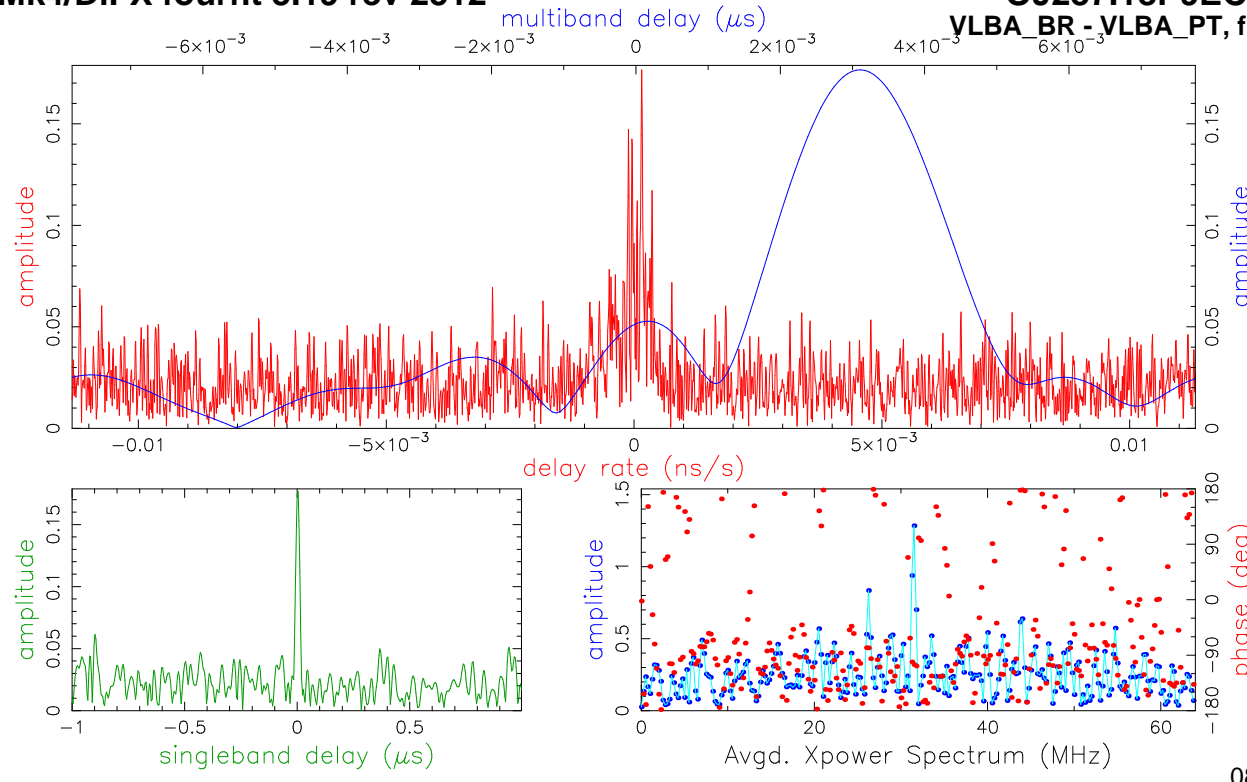


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-86.8	-145.2	-127.4	-161.9	-132.3	-116.0	-130.0	-105.0	Phase	-126.4
	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1
	351.8	198.7	489.7	331.8	173.3	122.4	256.9	380.7	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.95129028343E+02		Apriori delay (usec)		-6.95131862152E+02		Resid mbdelay (usec)		2.83381E-03	+/- 1.5E-04
Sband delay (usec)	-6.95129348152E+02		Apriori clock (usec)		-2.1468208E+01		Resid sbdelay (usec)		2.51400E-03	+/- 1.2E-03
Phase delay (usec)	-6.95131866230E+02		Apriori clockrate (us/s)		-2.4300001E-07		Resid phdelay (usec)		-4.07730E-06	+/- 5.0E-07
Delay rate (us/s)	-1.43774956190E-01		Apriori rate (us/s)		-1.43774889178E-01		Resid rate (us/s)		-6.70118E-08	+/- 2.0E-09
Total phase (deg)	-344.5		Apriori accel (us/s/s)		8.97857382722E-06		Resid phase (deg)		-126.4	+/- 15.6

ph/seg (deg) 59.4 37.3 Search (2048X32) 0.127 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 78.0 65.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.1 22.0 Inc. seg. avg. 0.166 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 21.0 38.4 Inc. frq. avg. 0.127 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 99.1 el 35.1 pa -44.6 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 889.495 1414.818 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bo.W.69.18P9EC

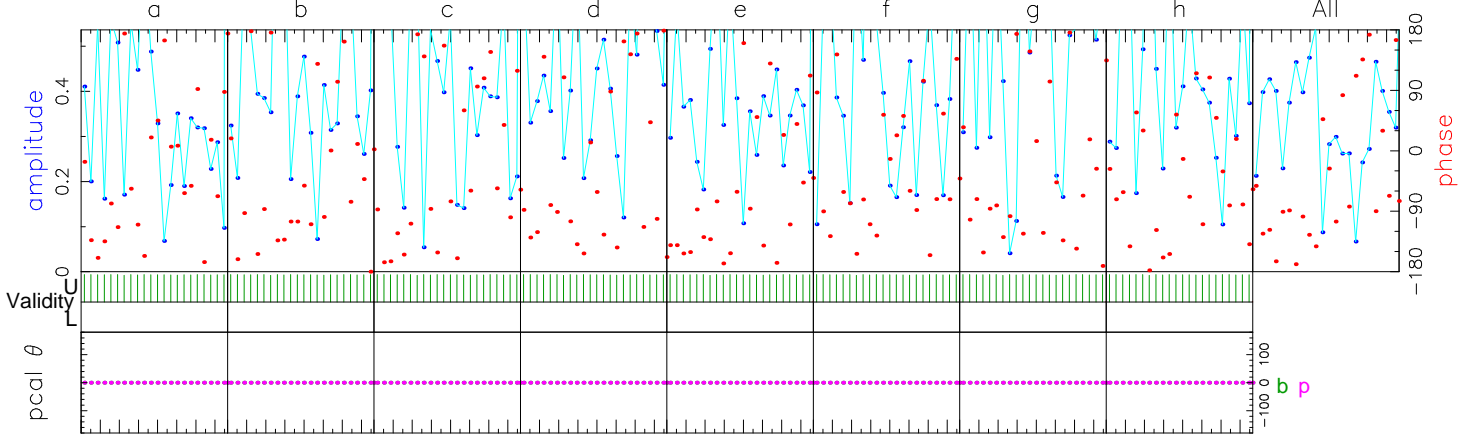
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bp
VLBA_BR - VLBA_PT, fgroup W, pol LL



Fringe quality 9
 SNR 10.2
 Int time 435.696
 Amp 0.179
 Phase -118.6
 PFD 8.4e-16
 Delays (us)
 SBD 0.002287
 MBD 0.003065
 Fringe rate (Hz) 0.013245
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120752
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

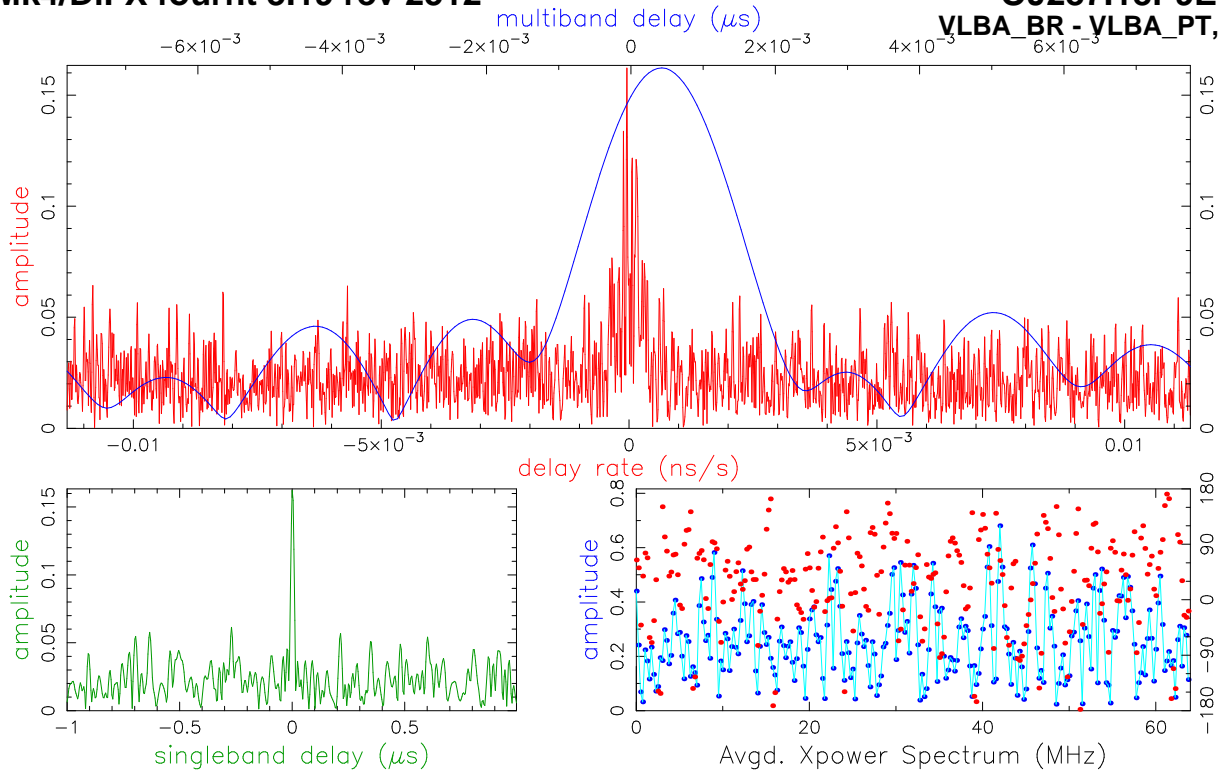
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.1	-120.6	-140.3	-129.1	-127.2	-114.3	-113.3	-102.4	Phase	-118.6
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	358.7	258.8	256.4	257.5	257.6	257.0	257.2	446.3	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.01499823998E+03		Apriori delay (usec)		-3.01500130460E+03		Resid mbdelay (usec)		3.06462E-03	+/- 1.1E-04
Sband delay (usec)	-3.01499901785E+03		Apriori clock (usec)		-1.8660257E+01		Resid sbdelay (usec)		2.28675E-03	+/- 8.4E-04
Phase delay (usec)	-3.01500130843E+03		Apriori clockrate (us/s)		-2.4588659E-07		Resid phdelay (usec)		-3.82371E-06	+/- 3.6E-07
Delay rate (us/s)	-4.76559113669E-02		Apriori rate (us/s)		-4.76560651317E-02		Resid rate (us/s)		1.53765E-07	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.29284413475E-05		Resid phase (deg)		-118.6	+/- 11.2

ph/seg (deg) RMS Theor. Amplitude 0.179 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.2 26.9 Search (2048X32) 0.175 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 107.2 47.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.6 15.9 Inc. seg. avg. 0.296 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 21.5 27.7 Inc. frq. avg. 0.175 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bp.W.14.18P9EC

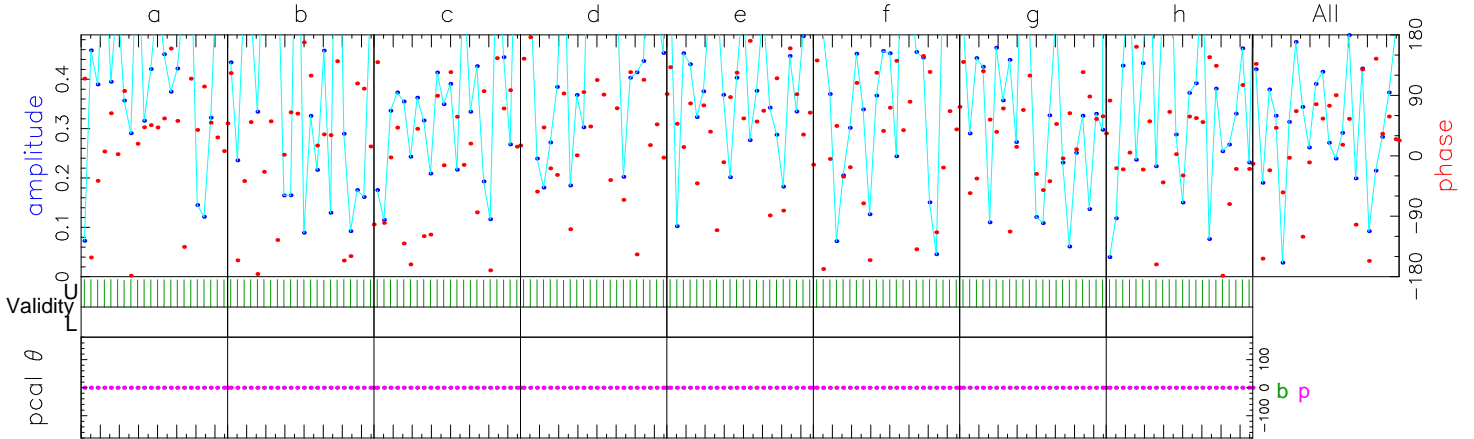


Fringe quality 9

SNR 9.3
Int time 435.696
Amp 0.163
Phase 55.4
PFD 4.4e-12
Delays (us)
SBD 0.001054
MBD 0.000459
Fringe rate (Hz)
-0.003575
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

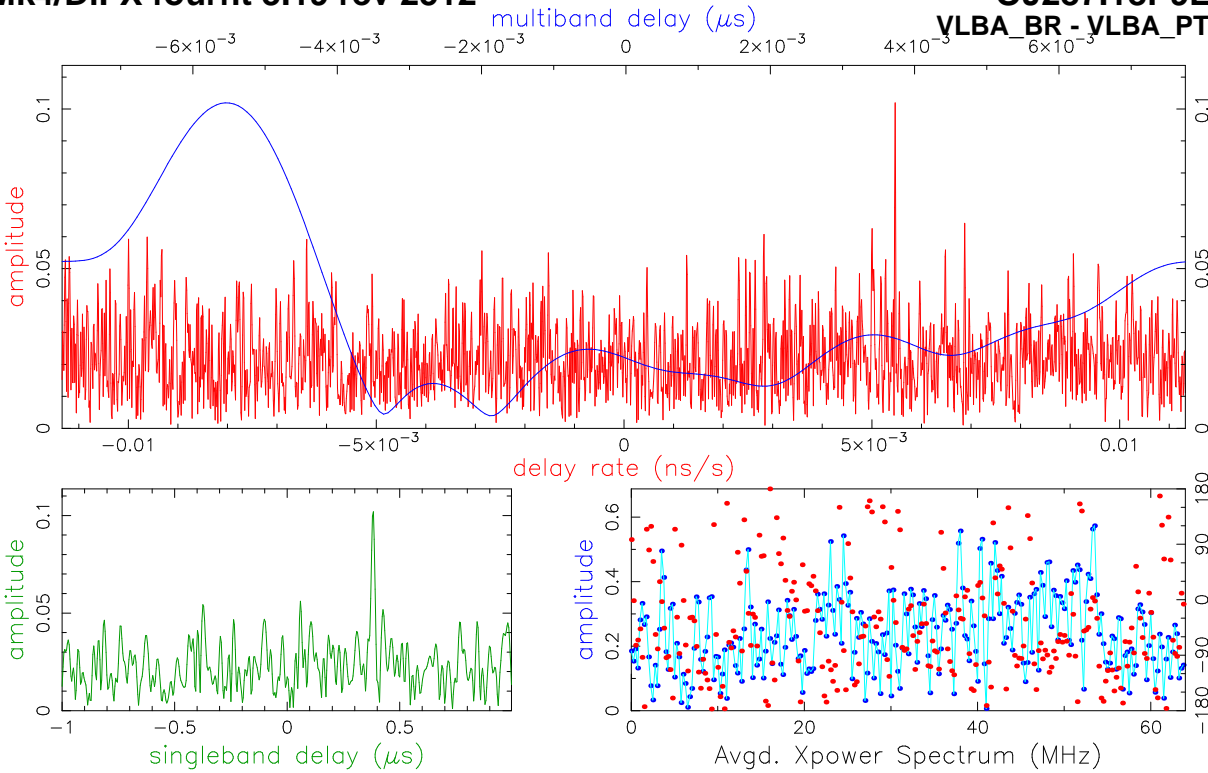
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120756
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.01500084593E+03								4.58675E-04	+/- 1.2E-04
Sband delay (usec)	-3.01500025060E+03								1.05400E-03	+/- 9.2E-04
Phase delay (usec)	-3.01500130282E+03								1.78700E-06	+/- 4.0E-07
Delay rate (us/s)	-4.76561066375E-02								-4.15059E-08	+/- 1.6E-09
Total phase (deg)			-80.8						55.4	+/- 12.3
Apriori delay (usec)					-3.01500130460E+03					
Apriori clock (usec)					-1.8660257E+01					
Apriori clockrate (us/s)					-2.4588659E-07					
Apriori rate (us/s)					-4.76560651317E-02					
Apriori accel (us/s/s)					2.29284413475E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000							
Bits/sample:	2x2		SampCntNorm: enabled mb window (us) -0.008 0.008							
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							
nlags:	256		t_cohere infinite							

ph/seg (deg) 83.2 29.5 Search (2048X32) 0.159 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 120.7 51.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.1 17.4 Inc. seg. avg. 0.279 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.4 30.3 Inc. frq. avg. 0.160 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 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bp.W.31.18P9EC

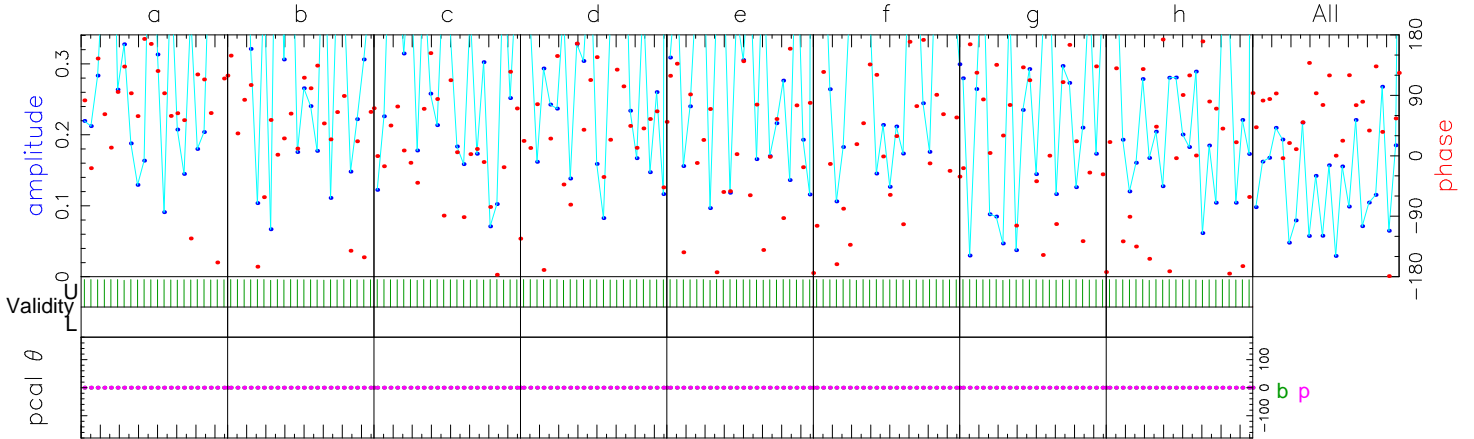


Fringe quality 0

SNR 5.9
Int time 435.696
Amp 0.114
Phase 66.6
PFD 6.4e-01
Delays (us)
SBD 0.381399
MBD -0.005516
Fringe rate (Hz)
0.471933
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

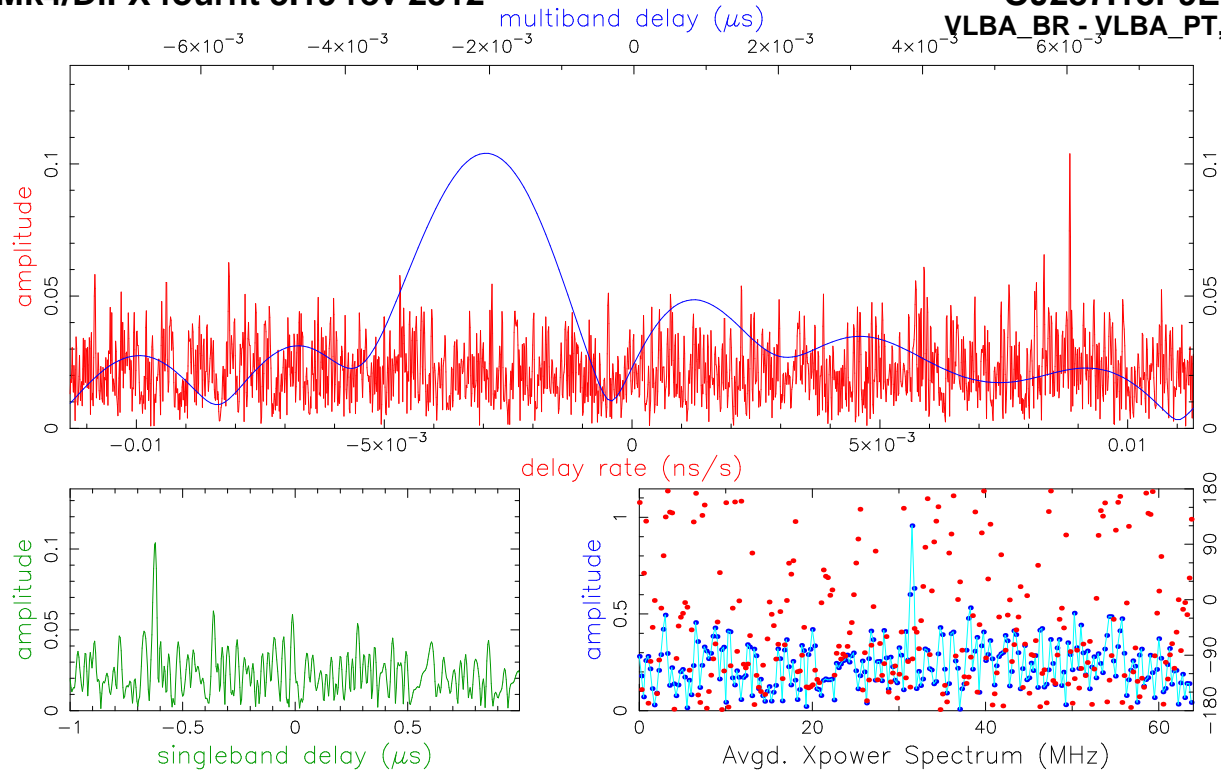
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120801
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



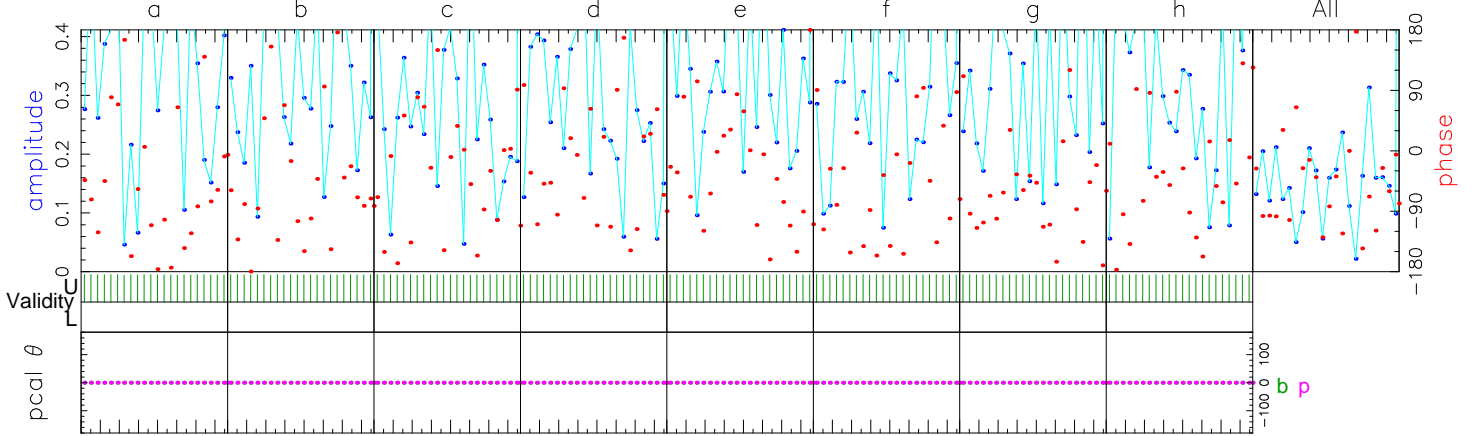
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.01461619588E+03									
Sband delay (usec)	-3.01461990585E+03									
Phase delay (usec)	-3.01500130246E+03									
Delay rate (us/s)	-4.76505864564E-02									
Total phase (deg)			-69.7							
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)									66.6	+/- 19.5
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								

ph/seg (deg) 47.7 46.7 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.1 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) 29.8 27.5 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.6 48.1 Inc. frq. avg. 0.111 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bp.W.51.18P9EC



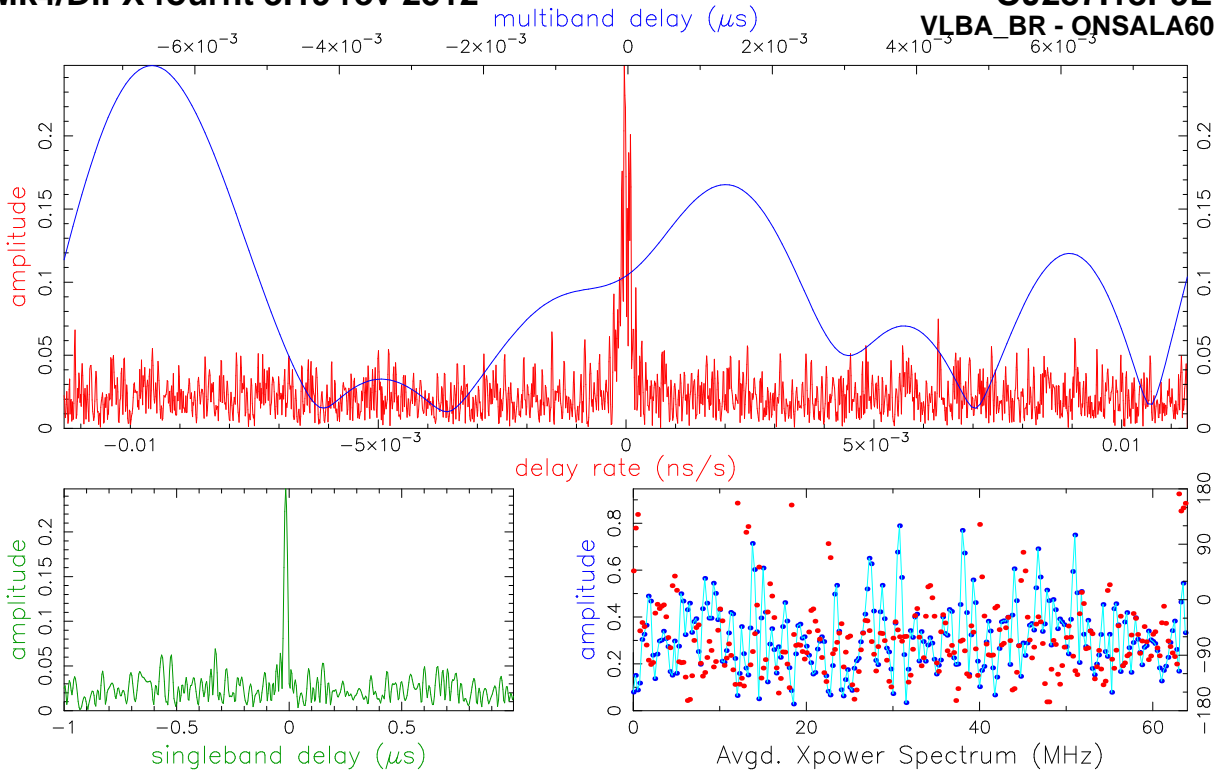
Fringe quality 0
SNR 6.0
Int time 435.696
Amp 0.137
Phase -67.0
PFD 3.8e-01
Delays (us)
SBD -0.622729
MBD -0.002108
Fringe rate (Hz)
0.762274
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120805
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



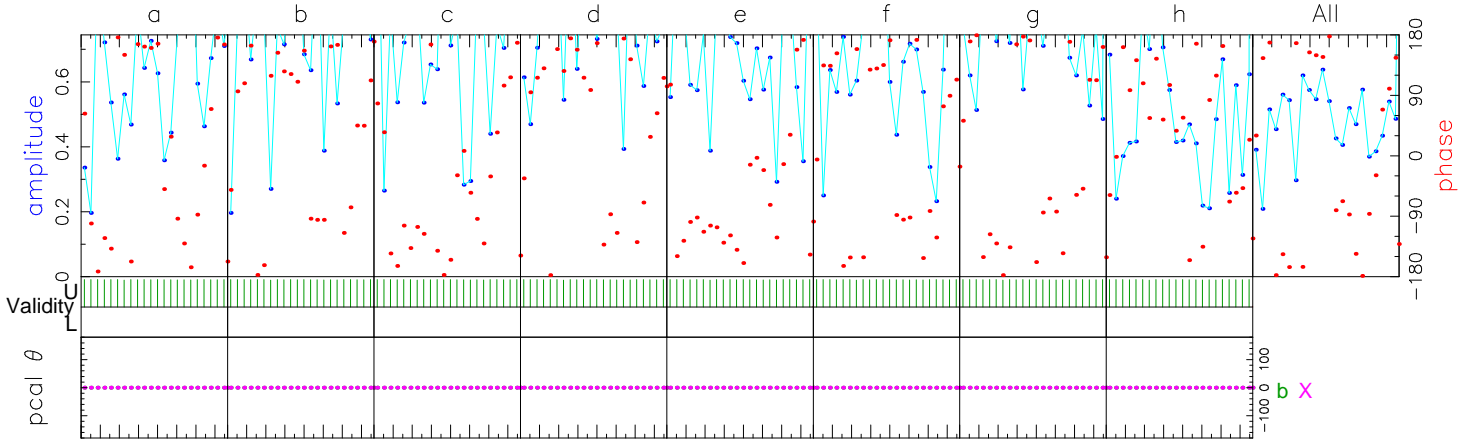
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-80.7	-97.6	-39.6	-54.7	-24.5	-110.9	-74.9	-62.8	Phase	-67.0
	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	258.2	347.4	32.6	442.6	198.2	42.2	97.8	451.6	Sbd box	97.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.01562841302E+03		Apriori delay (usec)		-3.01500130460E+03		Resid mbdelay (usec)		-2.10842E-03	+/- 1.8E-04
Sband delay (usec)	-3.01562403385E+03		Apriori clock (usec)		-1.8660257E+01		Resid sbdelay (usec)		-6.22729E-01	+/- 1.4E-03
Phase delay (usec)	-3.01500130676E+03		Apriori clockrate (us/s)		-2.4588659E-07		Resid phdelay (usec)		-2.16154E-06	+/- 6.1E-07
Delay rate (us/s)	-4.76472158847E-02		Apriori rate (us/s)		-4.76560651317E-02		Resid rate (us/s)		8.84925E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.29284413475E-05		Resid phase (deg)		-67.0	+/- 19.1

ph/seg (deg) 59.4 45.7 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 87.7 79.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 31.2 27.0 Inc. seg. avg. 0.149 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 28.3 47.0 Inc. frq. avg. 0.135 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 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bp.W.70.18P9EC simultaneous interpolator



Fringe quality 8
SNR 14.2
Int time 436.570
Amp 0.248
Phase -177.9
PFD 6.8e-37
Delays (us)
SBD -0.015348
MBD -0.006591
Fringe rate (Hz)
-0.002578
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120754
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



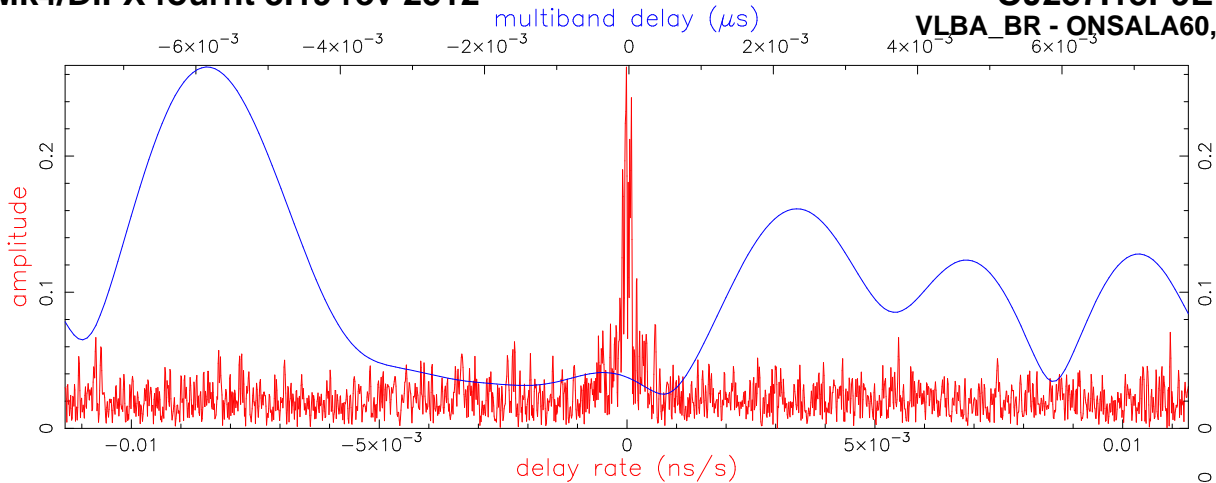
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-167.8	148.7	-154.0	152.4	-111.3	157.7	-152.4	101.5	Phase	-177.9
	0.4	0.3	0.2	0.4	0.3	0.3	0.4	0.2	Ampl.	0.3
	252.4	252.2	253.9	252.3	252.0	253.0	252.3	251.6	Sbd box	253.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	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)	3.24875017822E+03		Apriori delay (usec)		3.24877239399E+03		Resid mbdelay (usec)		-6.59077E-03	+/- 7.7E-05
Sband delay (usec)	3.24875704549E+03		Apriori clock (usec)		-4.2108871E+01		Resid sbdelay (usec)		-1.53485E-02	+/- 6.1E-04
Phase delay (usec)	3.24877238825E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-5.73675E-06	+/- 2.6E-07
Delay rate (us/s)	1.58228107821E+00		Apriori rate (us/s)		1.58228110814E+00		Resid rate (us/s)		-2.99259E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.12841881442E-05		Resid phase (deg)		-177.9	+/- 8.1

	RMS	Theor.	Amplitude	0.248 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	71.2	19.4	Search (2048X32)	0.239	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	102.3	33.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	49.7	11.4	Inc. seg. avg.	0.453	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	39.8	19.9	Inc. frq. avg.	0.310	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9678.335 -1371.890 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bX.W.19.18P9EC

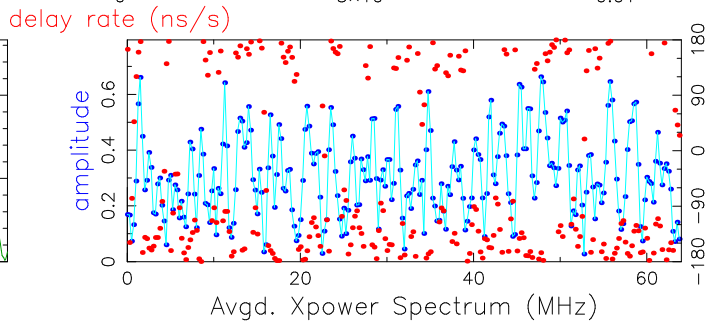
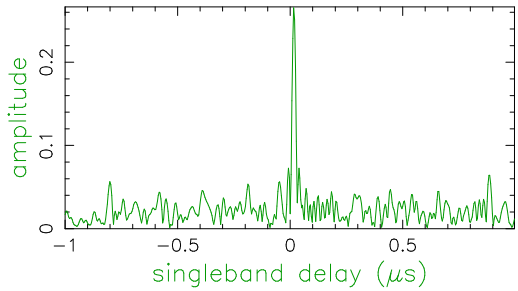
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bX
VLBA_BR - ONSALA60, fgroup W, pol RR



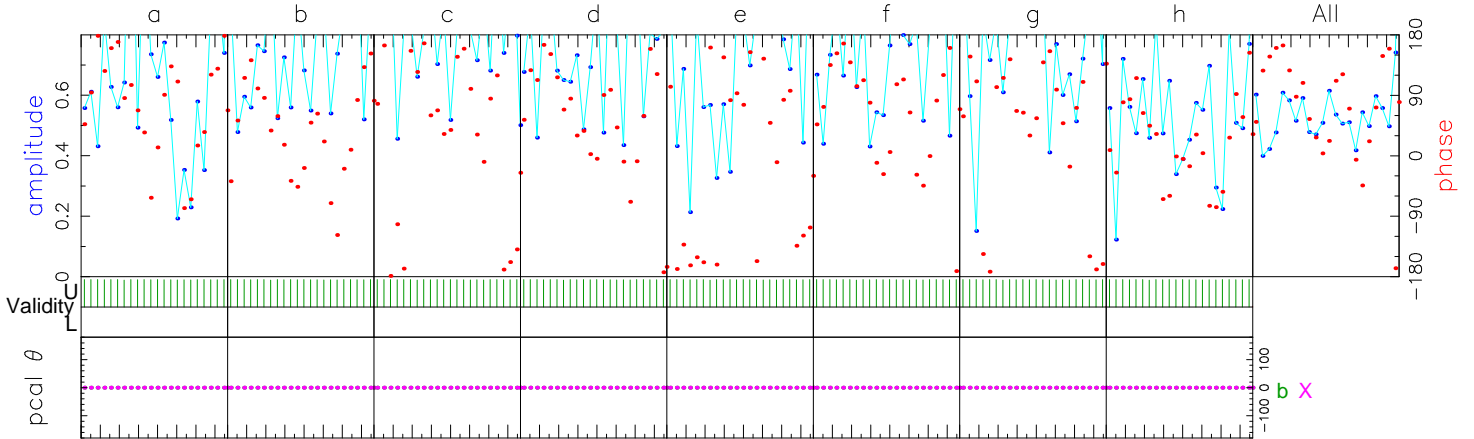
Fringe quality 8

SNR 15.2
Int time 436.570
Amp 0.267
Phase 94.8
PFD 1.3e-43
Delays (us)
SBD 0.016509
MBD -0.005816
Fringe rate (Hz)
-0.000509
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120758
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

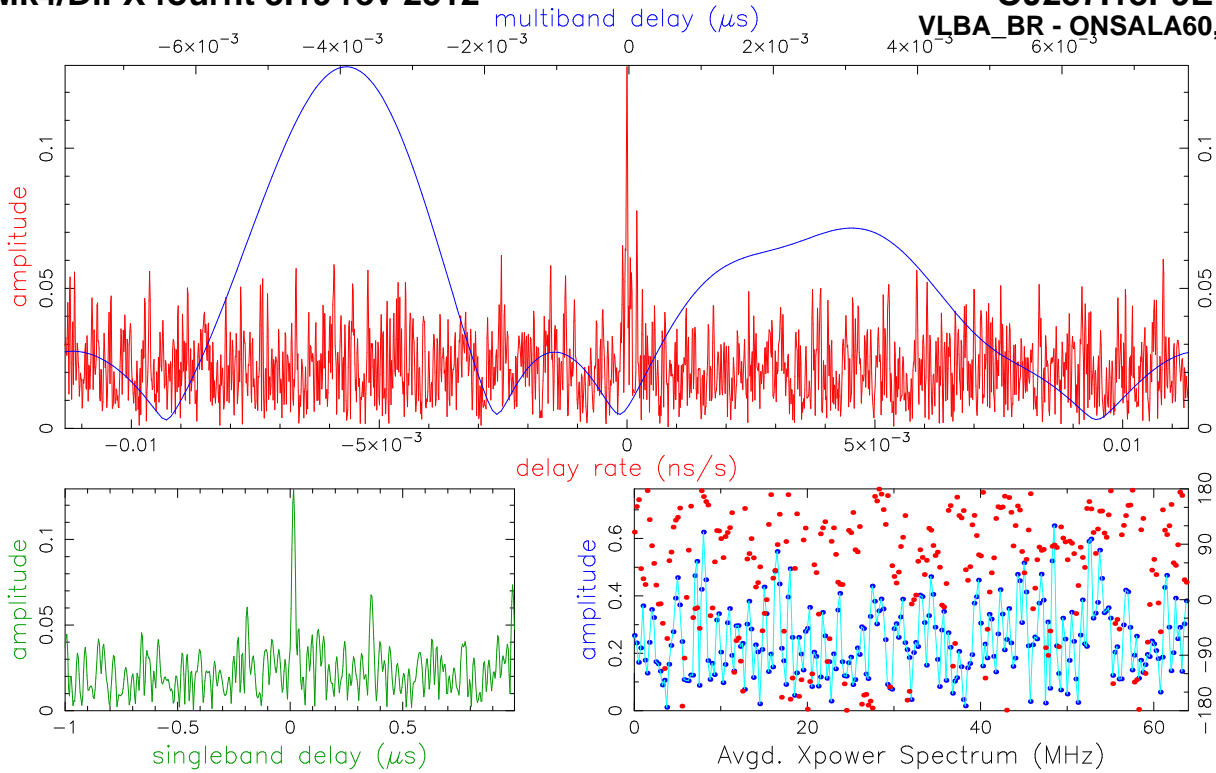
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	3.24878220331E+03		Apriori delay (usec)		3.24877239399E+03		Resid mbdelay (usec)		-5.81568E-03	+/- 7.1E-05
Sband delay (usec)	3.24878890349E+03		Apriori clock (usec)		-4.2108871E+01		Resid sbdelay (usec)		1.65095E-02	+/- 5.7E-04
Phase delay (usec)	3.24877239704E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		3.05652E-06	+/- 2.4E-07
Delay rate (us/s)	1.58228110223E+00		Apriori rate (us/s)		1.58228110814E+00		Resid rate (us/s)		-5.91079E-09	+/- 9.6E-10
Total phase (deg)	101.3		Apriori accel (us/s/s)		-2.12841881442E-05		Resid phase (deg)		94.8	+/- 7.5

	RMS	Theor.	Amplitude	0.267 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	63.7	18.0	Search (2048X32)	0.256	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	104.1	31.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	47.4	10.6	Inc. seg. avg.	0.507	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	31.1	18.6	Inc. frq. avg.	0.331	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

b: az 99.1 el 35.1 pa -44.6 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9678.335 -1371.890 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bX.W.40.18P9EC

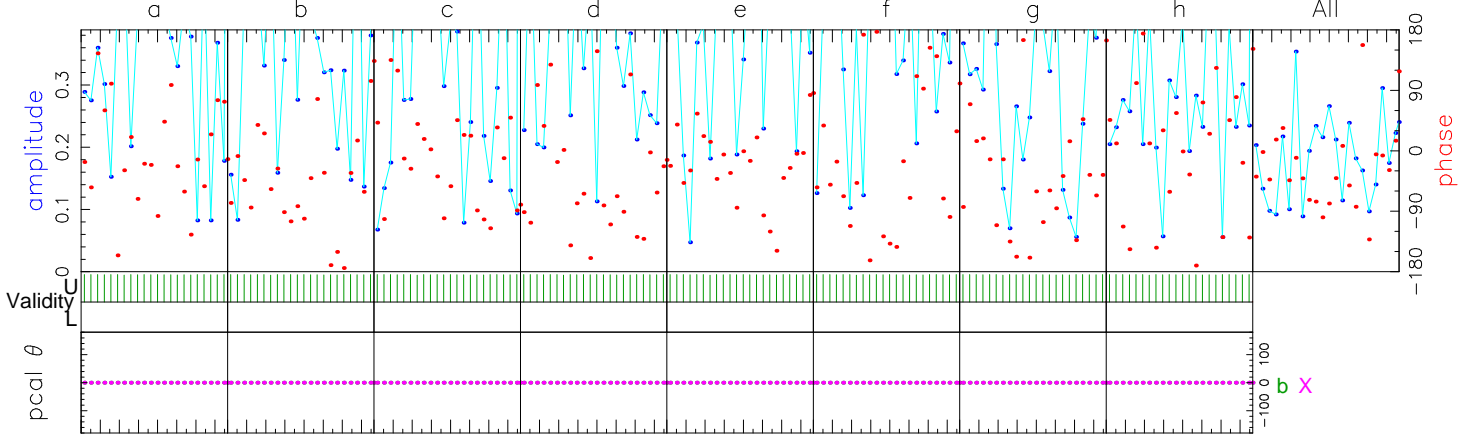


Fringe quality 9

SNR 7.4
Int time 436.570
Amp 0.130
Phase -36.7
PFD 4.2e-05
Delays (us)
SBD 0.014867
MBD -0.003930
Fringe rate (Hz)
-0.000353
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120803
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



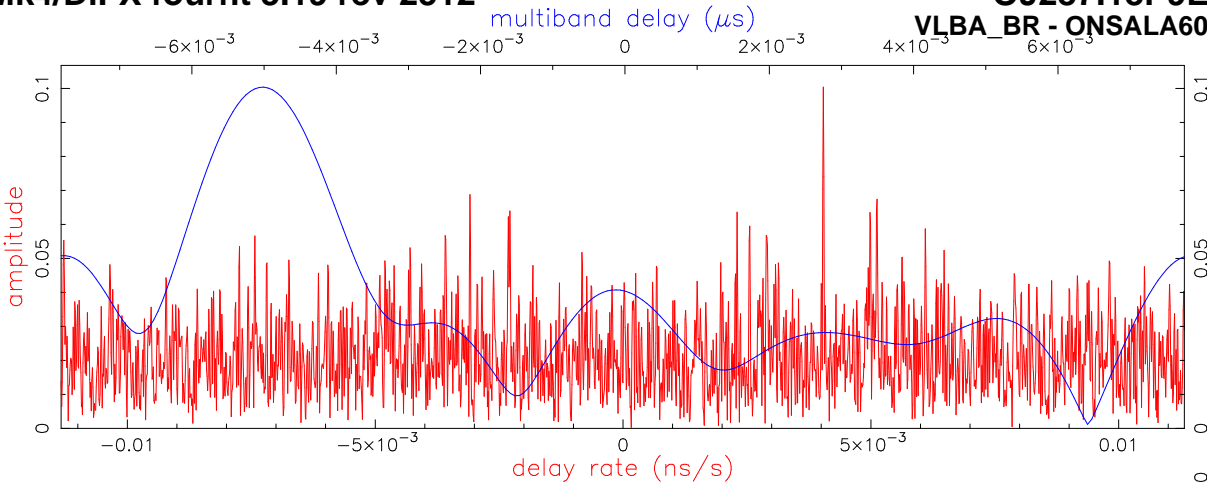
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.0	-53.3	-10.2	-79.3	-14.6	-96.7	-50.4	36.6	Phase	-36.7
	0.1	0.2	0.2	0.2	0.3	0.1	0.2	0.1	Ampl.	0.1
	511.5	261.4	288.4	260.9	260.4	301.4	314.1	495.1	Sbd box	260.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.24878408914E+03		Apriori delay (usec)		3.24877239399E+03		Resid mbdelay (usec)		-3.92984E-03	+/- 1.5E-04
Sband delay (usec)	3.24878726074E+03		Apriori clock (usec)		-4.2108871E+01		Resid sbdelay (usec)		1.48667E-02	+/- 1.2E-03
Phase delay (usec)	3.24877239281E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-1.18269E-06	+/- 5.0E-07
Delay rate (us/s)	1.58228110404E+00		Apriori rate (us/s)		1.58228110814E+00		Resid rate (us/s)		-4.10326E-09	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.12841881442E-05		Resid phase (deg)		-36.7	+/- 15.5

ph/seg (deg) 54.1 37.1 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.1 64.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.8 21.9 Inc. seg. avg. 0.152 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.5 38.2 Inc. frq. avg. 0.143 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9678.335 -1371.890 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bX.W.63.18P9EC simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

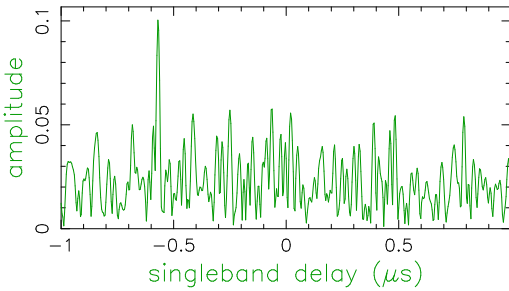
OJ287.18P9EC, No0027, bX

VLBA_BR - ONSALA60, fgroup W, pol RL

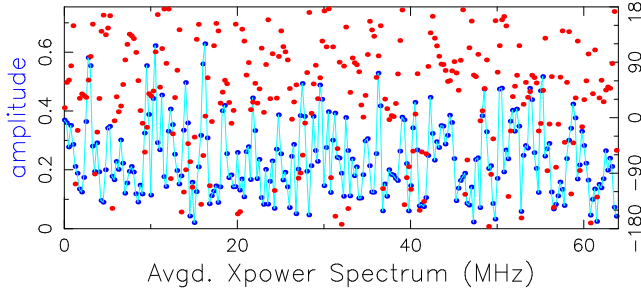


Fringe quality 0

SNR 5.8
 Int time 436.570
 Amp 0.107
 Phase 49.1
 PFD 8.3e-01
 Delays (us)
 SBD -0.569213
 MBD -0.005012
 Fringe rate (Hz)
 0.348209
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

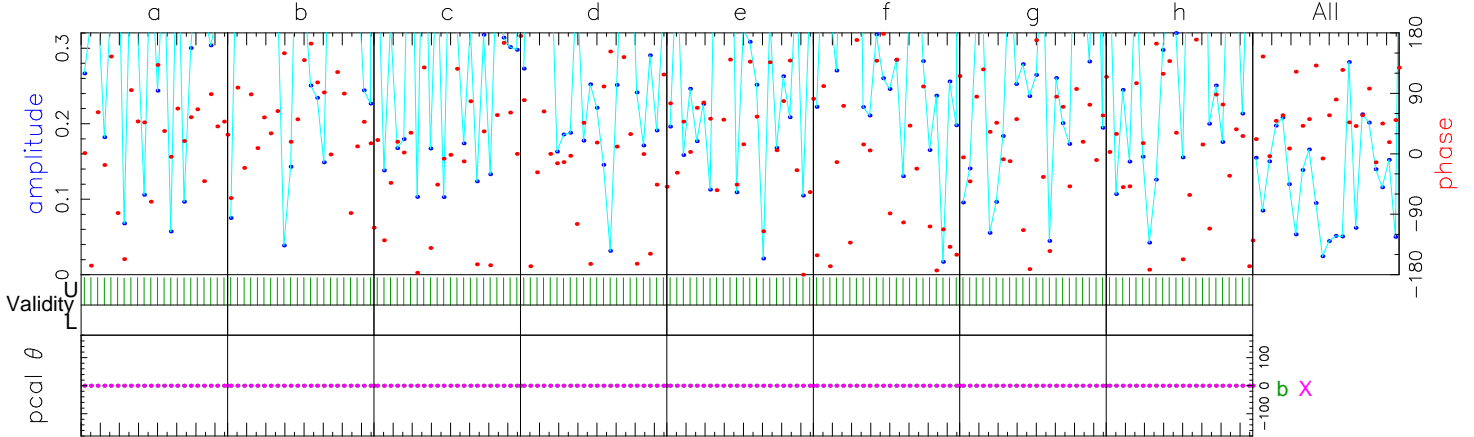


delay rate (ns/s)



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120807
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	3.24820488182E+03	Apriori delay (usec)	3.24877239399E+03	Resid mbdelay (usec)	-5.01217E-03	+/-	1.9E-04
Sband delay (usec)	3.24820318124E+03	Apriori clock (usec)	-4.2108871E+01	Resid sbdelay (usec)	-5.69213E-01	+/-	1.5E-03
Phase delay (usec)	3.24877239557E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	1.58364E-06	+/-	6.4E-07
Delay rate (us/s)	1.58228515051E+00	Apriori rate (us/s)	1.58228110814E+00	Resid rate (us/s)	4.04237E-06	+/-	2.5E-09
Total phase (deg)	55.6	Apriori accel (us/s/s)	-2.12841881442E-05	Resid phase (deg)	49.1	+/-	19.8

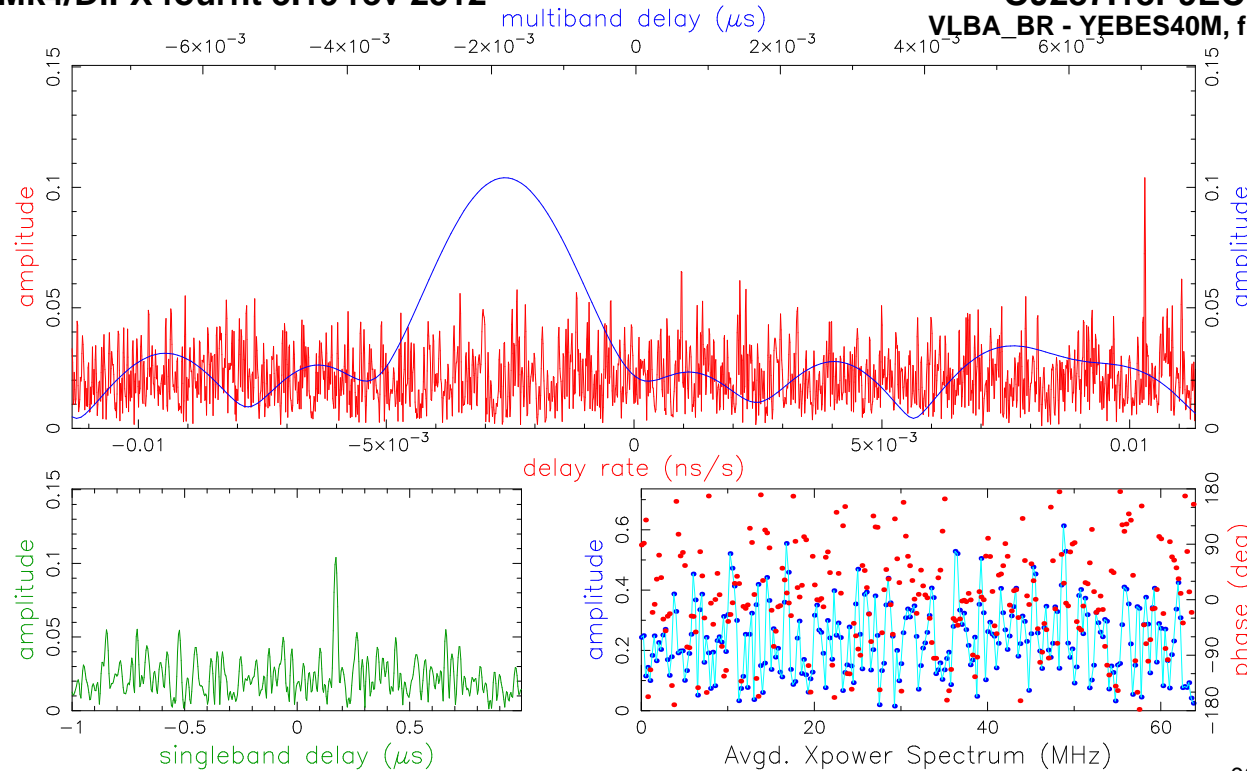
ph/seg (deg)	44.7	Theor.	47.5	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.4	Search (2048X32)	0.099	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	45.9	Inc. seg. avg.	0.099	Inc. frq. avg.	0.107	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	44.9	Inc. frq. avg.	0.107			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9678.335 -1371.890 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bX.W.79.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bY
VLBA_BR - YEBES40M, fgroup W, pol LL

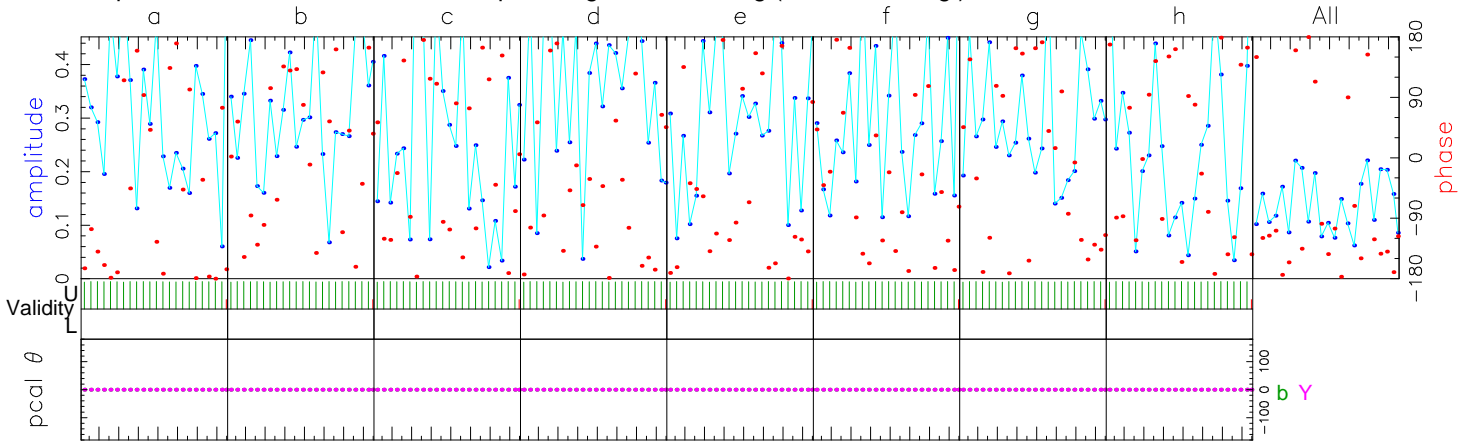


Fringe quality 0

SNR 5.9
Int time 431.140
Amp 0.151
Phase -159.6
PFD 5.6e-01
Delays (us)
SBD 0.171160
MBD -0.001843
Fringe rate (Hz)
0.889563
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120753
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

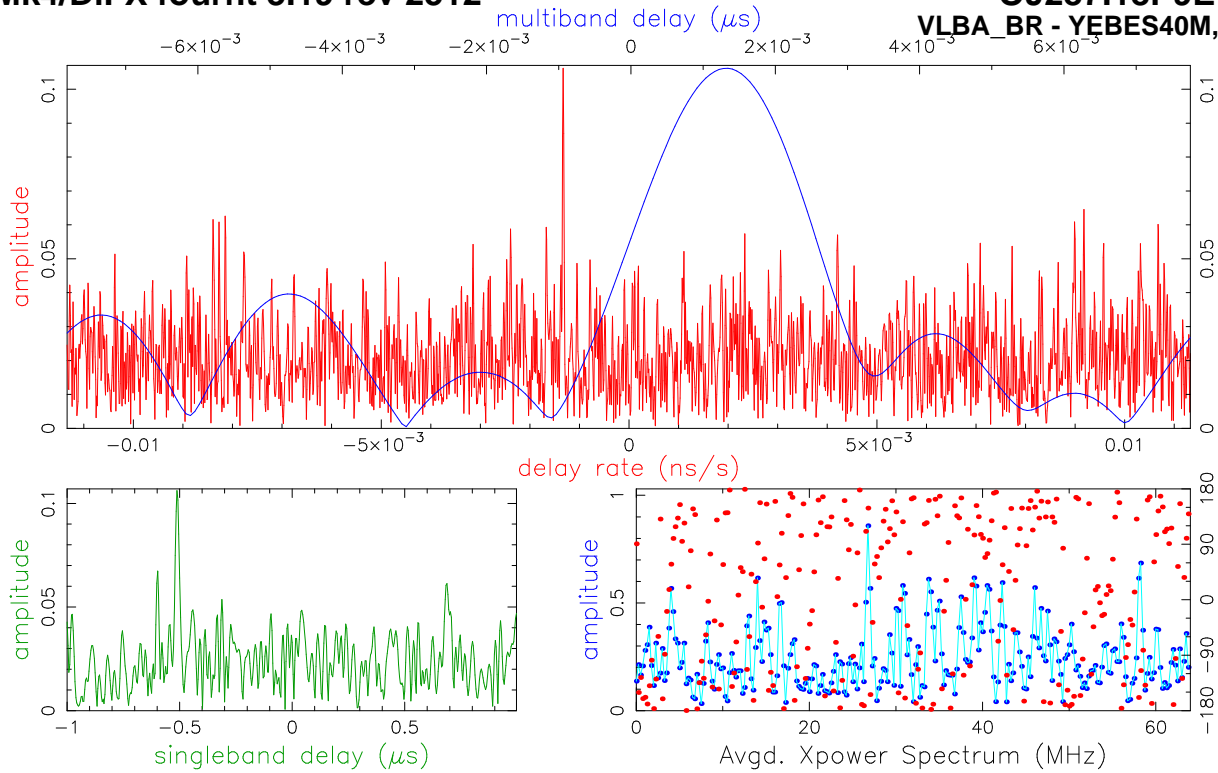


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-173.7	-180.0	-162.3	-129.3	-152.6	-128.4	-173.7	-173.0	Phase	-159.6
	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	258.6	113.8	84.9	103.4	300.3	242.1	407.9	355.9	Sbd box	300.8
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.07537570756E+02		Apriori delay (usec)		-2.07707602608E+02		Resid mbdelay (usec)		-1.84315E-03	+/- 1.8E-04
Sband delay (usec)	-2.07536443108E+02		Apriori clock (usec)		-1.3358538E+01		Resid sbdelay (usec)		1.71160E-01	+/- 1.5E-03
Phase delay (usec)	-2.07707607754E+02		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-5.14597E-06	+/- 6.2E-07
Delay rate (us/s)	1.77359394890E+00		Apriori rate (us/s)		1.77358362196E+00		Resid rate (us/s)		1.03269E-05	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.70178248386E-06		Resid phase (deg)		-159.6	+/- 19.4

	RMS	Theor.	Amplitude	0.151 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	48.0	46.4	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	60.2	81.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	22.2	27.4	Inc. seg. avg.	0.154	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	34.2	47.8	Inc. frq. avg.	0.141	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

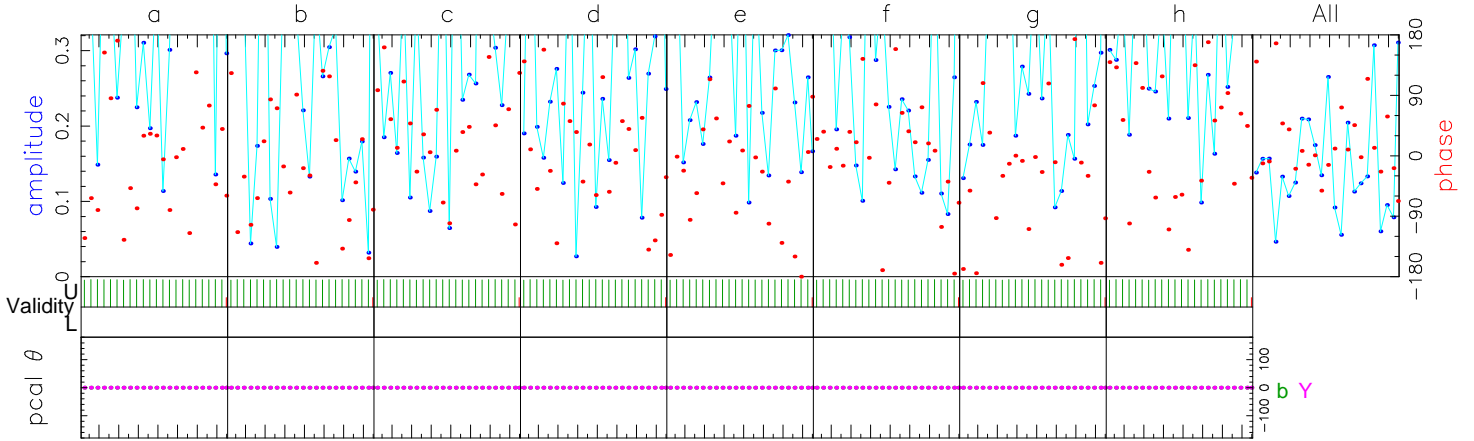
b: az 99.1 el 35.1 pa -44.6 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10803.621 984.330 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/by..18P9EC Output file: /Exps/c201a/v1/1234/No0027/by.W.18.18P9EC



Fringe quality 0
SNR 6.0
Int time 431.139
Amp 0.107
Phase 6.8
PFD 3.3e-01
Delays (us)
SBD -0.511014
MBD 0.001320
Fringe rate (Hz)
-0.114736
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120757
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

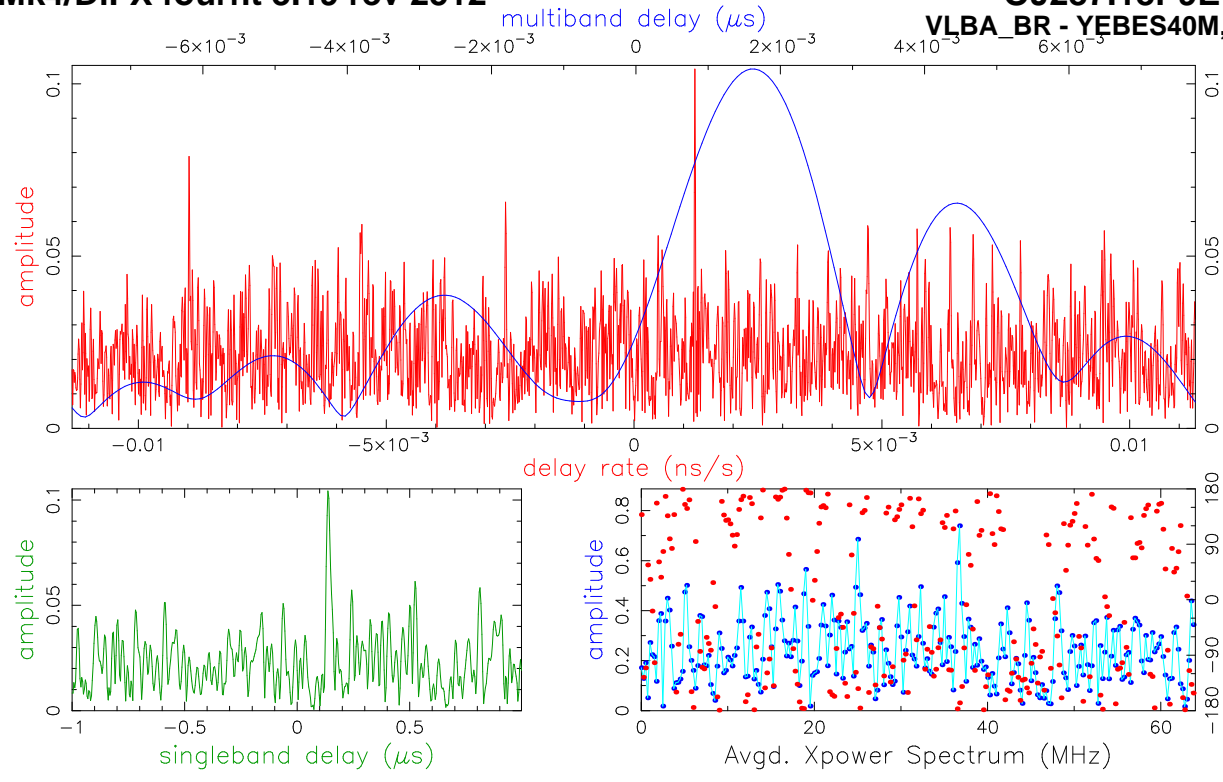


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-2.08221907933E+02	Apriori delay (usec)	-2.07707602608E+02	Resid mbdelay (usec)	1.31967E-03	+/-	1.8E-04
Sband delay (usec)	-2.08218616858E+02	Apriori clock (usec)	-1.3358538E+01	Resid sbdelay (usec)	-5.11014E-01	+/-	1.4E-03
Phase delay (usec)	-2.07707602388E+02	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	2.19914E-07	+/-	6.1E-07
Delay rate (us/s)	1.77358228999E+00	Apriori rate (us/s)	1.77358362196E+00	Resid rate (us/s)	-1.33197E-06	+/-	2.4E-09
Total phase (deg)	-313.1	Apriori accel (us/s/s)	4.70178248386E-06	Resid phase (deg)	6.8	+/-	19.0

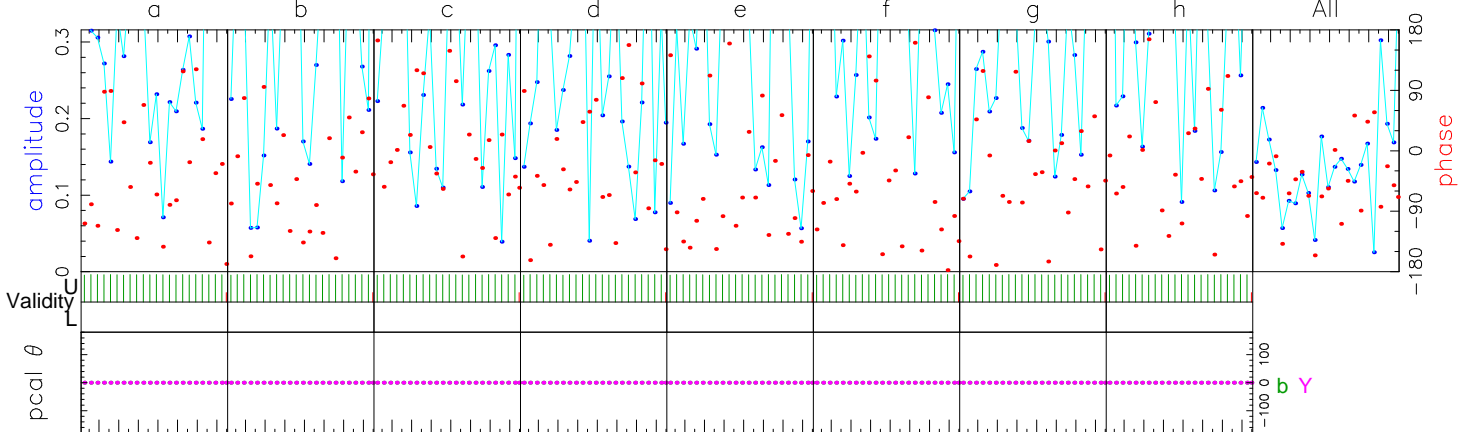
ph/seg (deg)	58.0	Theor.	45.5	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	72.8		79.4	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	31.0		26.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	27.4		46.8	Inc. seg. avg.	0.111	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.105	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 99.1 el 35.1 pa -44.6 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10803.621 984.330 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bY.W.37.18P9EC



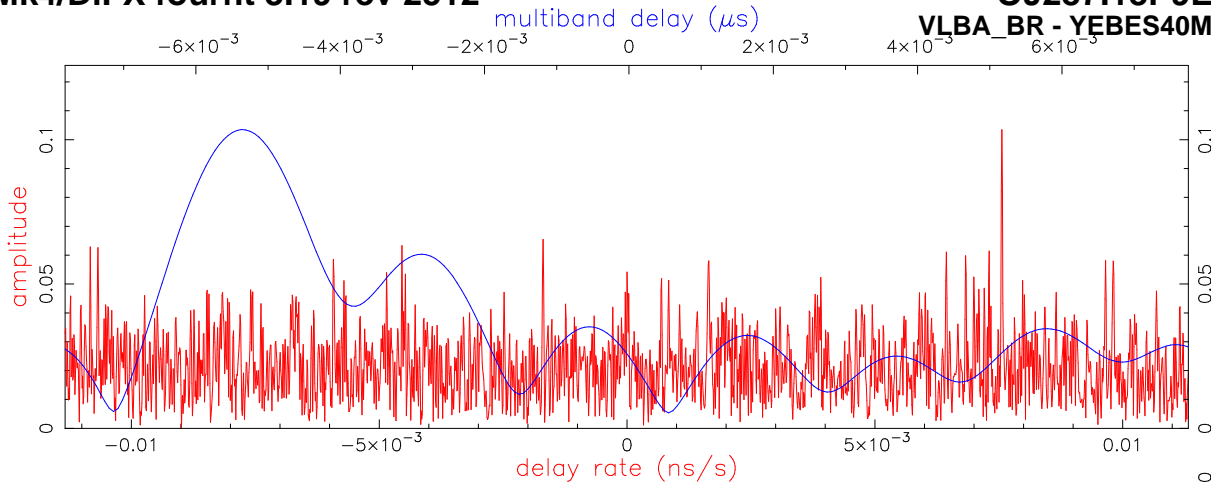
Fringe quality 0
SNR 6.0
Int time 431.140
Amp 0.105
Phase -49.9
PFD 4.9e-01
Delays (us)
SBD 0.137739
MBD 0.001646
Fringe rate (Hz)
0.105757
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



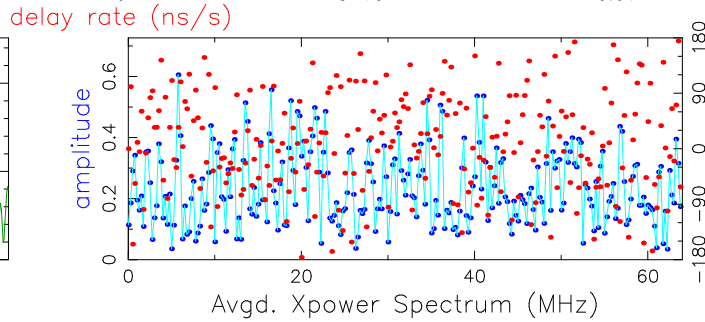
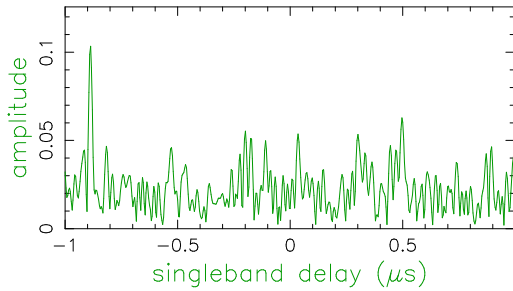
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.0	-36.1	7.2	-44.2	-80.8	-89.2	-43.5	-31.3		-49.9
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1
	72.9	54.2	204.4	300.4	39.4	27.8	298.5	107.1		292.3
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	-2.07565332043E+02		Apriori delay (usec)		-2.07707602608E+02		Resid mbdelay (usec)		1.64556E-03	+/- 1.8E-04
Sband delay (usec)	-2.07569863858E+02		Apriori clock (usec)		-1.3358538E+01		Resid sbdelay (usec)		1.37739E-01	+/- 1.4E-03
Phase delay (usec)	-2.07707604218E+02		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-1.60973E-06	+/- 6.2E-07
Delay rate (us/s)	1.77358484970E+00		Apriori rate (us/s)		1.77358362196E+00		Resid rate (us/s)		1.22774E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.70178248386E-06		Resid phase (deg)		-49.9	+/- 19.3

ph/seg (deg) 53.5 46.2 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.0 80.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 33.4 27.2 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 19.9 47.5 Inc. frq. avg. 0.107 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 99.1 el 35.1 pa -44.6 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10803.621 984.330 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bY.W.59.18P9EC



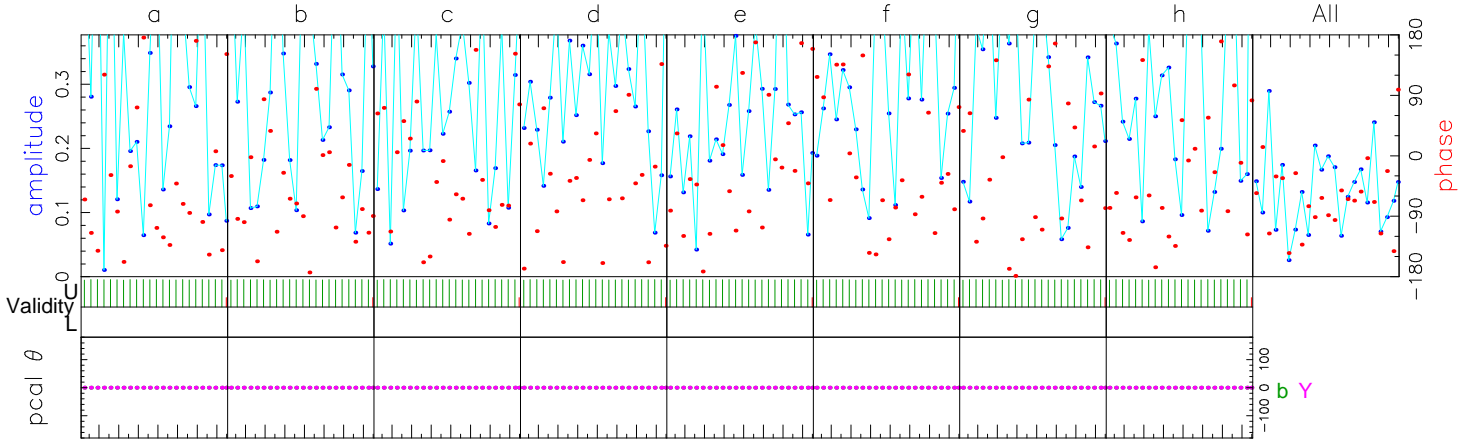
Fringe quality 0

SNR 5.9
Int time 431.139
Amp 0.126
Phase -72.2
PFD 6.0e-01
Delays (us)
SBD -0.887627
MBD -0.005389
Fringe rate (Hz)
0.652206
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201a
Yr:day 16383
Start 2020:115
Stop 2020:115
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120806
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.4	-78.0	-38.1	-41.7	-62.2	-71.3	-119.9	-69.7	Phase	-72.2
	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	29.6	30.5	95.1	461.7	180.9	417.1	139.0	265.2	Sbd box	29.8
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.08587991229E+02		Apriori delay (usec)		-2.07707602608E+02		Resid mbdelay (usec)		-5.38862E-03	+/- 1.8E-04
Sband delay (usec)	-2.08595229608E+02		Apriori clock (usec)		-1.3358538E+01		Resid sbdelay (usec)		-8.87627E-01	+/- 1.5E-03
Phase delay (usec)	-2.07707604936E+02		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-2.32776E-06	+/- 6.3E-07
Delay rate (us/s)	1.77359119342E+00		Apriori rate (us/s)		1.77358362196E+00		Resid rate (us/s)		7.57146E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.70178248386E-06		Resid phase (deg)		-72.2	+/- 19.4

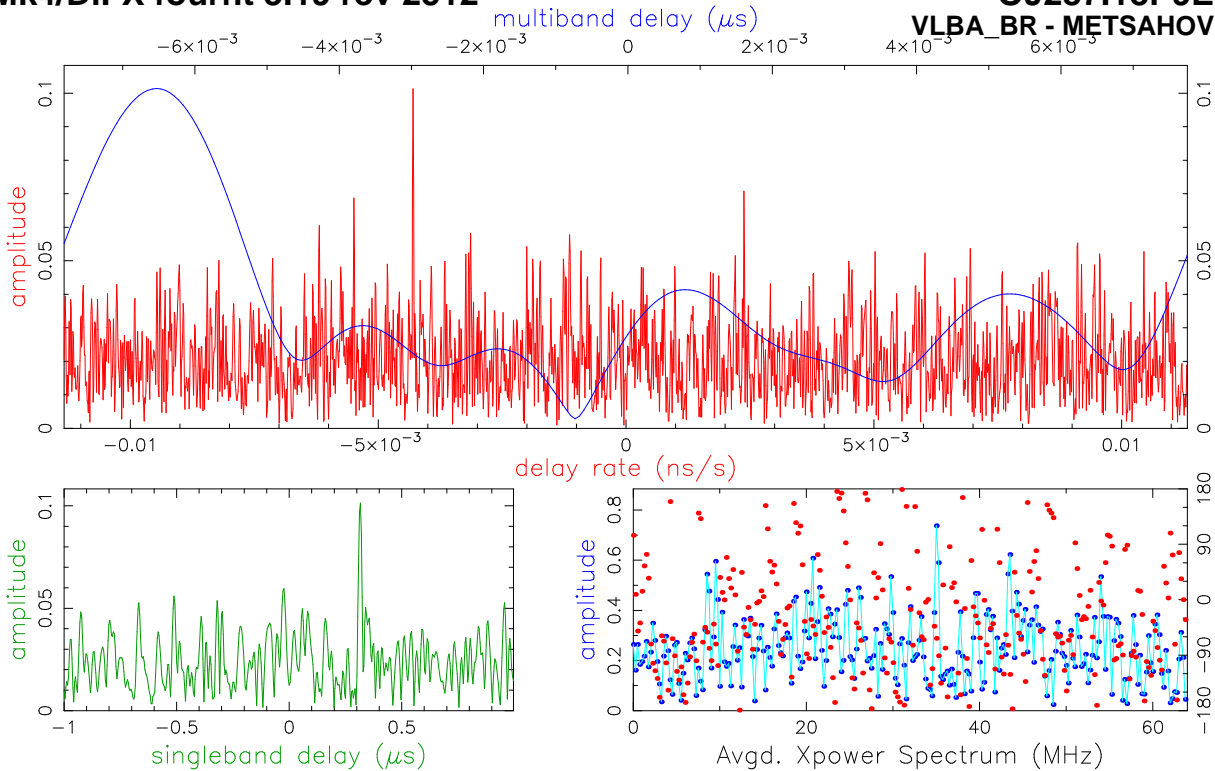
	RMS	Theor.	Amplitude	0.126 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	47.3	46.6	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.5	81.3	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	28.3	27.5	Inc. seg. avg.	0.122	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	49.7	47.9	Inc. frq. avg.	0.121	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10803.621 984.330 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bY.W.77.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

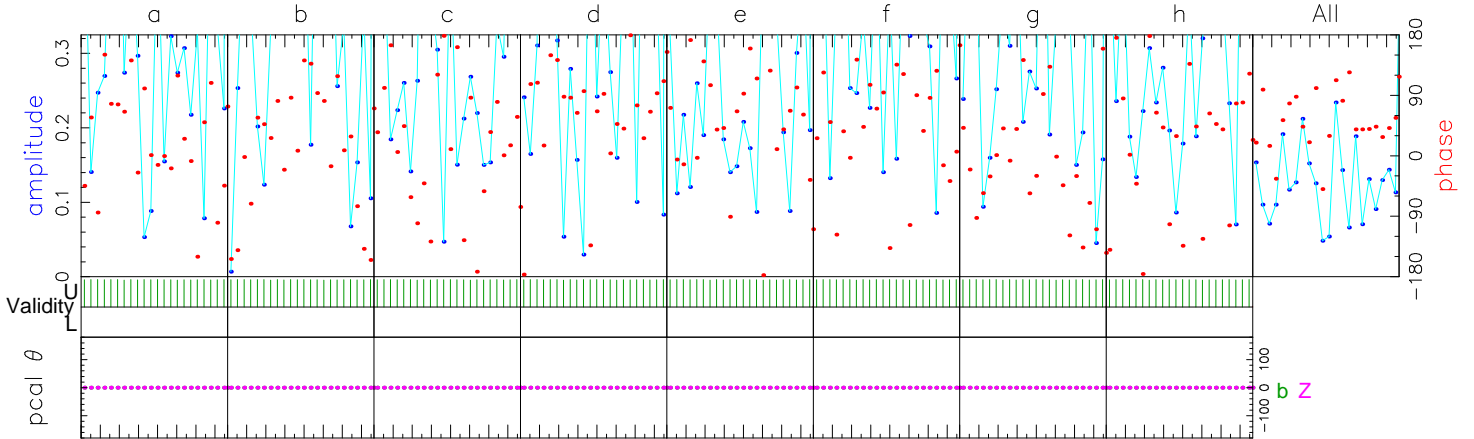
OJ287.18P9EC, No0027, bZ

VLBA_BR - METSAHOV, fgroup W, pol LL



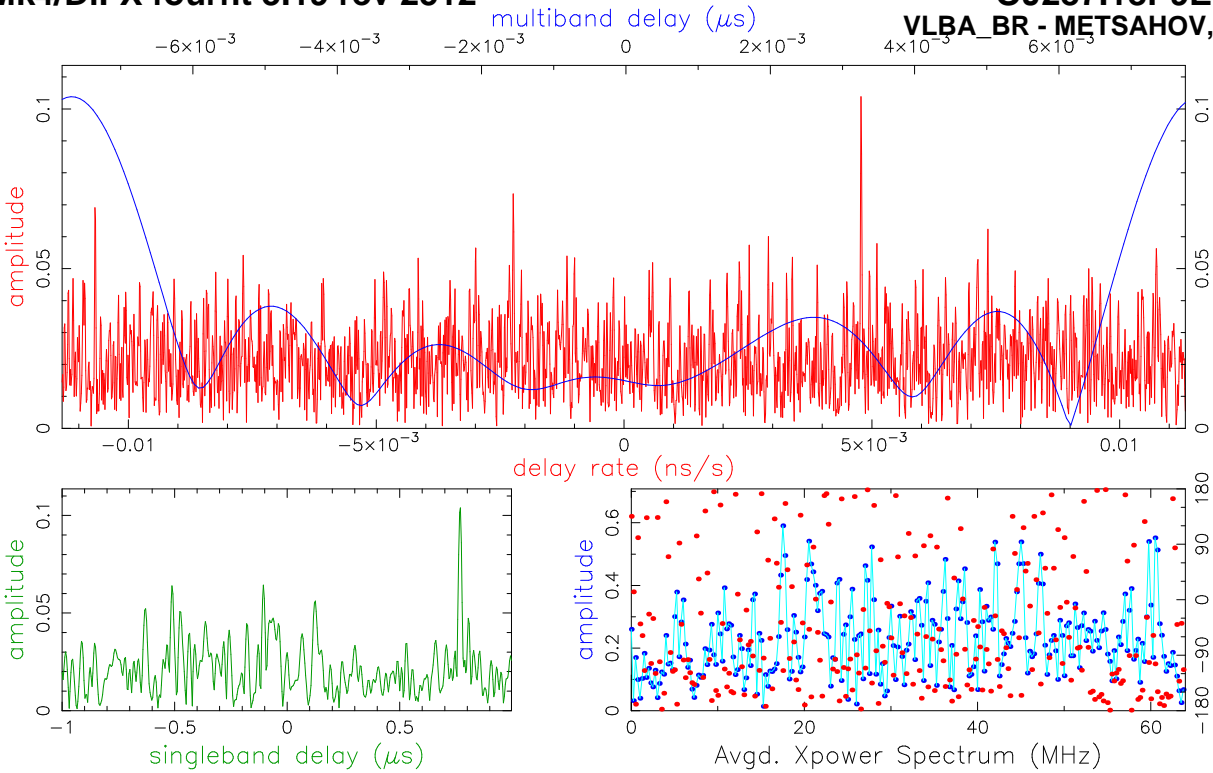
Fringe quality 0
 SNR 5.8
 Int time 436.190
 Amp 0.108
 Phase 53.7
 PFD 7.6e-01
 Delays (us)
 SBD 0.315369
 MBD -0.006584
 Fringe rate (Hz)
 -0.370821
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120755
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



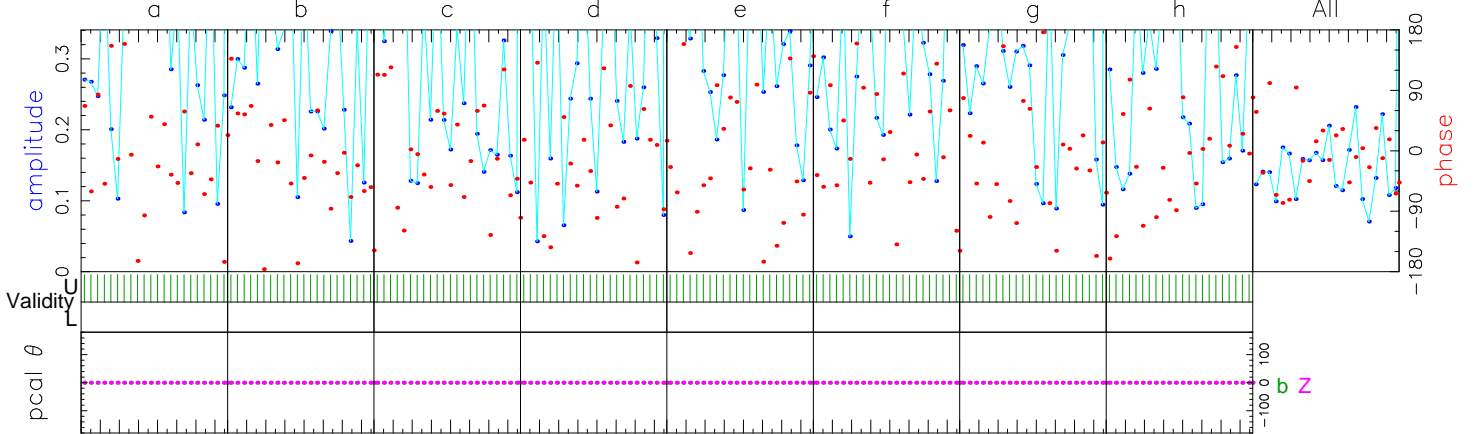
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	39.5	48.9	31.1	87.8	73.2	54.3	-16.6	93.8	Phase	53.7
	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1
	231.8	18.7	125.0	337.8	303.4	128.9	438.2	344.0	Sbd box	337.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs 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	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.46990796656E+03		Apriori delay (usec)		5.46958642562E+03		Resid mbdelay (usec)		-6.58406E-03	+/- 1.9E-04
Sband delay (usec)	5.46990179462E+03		Apriori clock (usec)		-1.2830046E+00		Resid sbdelay (usec)		3.15369E-01	+/- 1.5E-03
Phase delay (usec)	5.46958642735E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		1.73098E-06	+/- 6.3E-07
Delay rate (us/s)	1.55139664096E+00		Apriori rate (us/s)		1.55140094583E+00		Resid rate (us/s)		-4.30487E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.38652194046E-05		Resid phase (deg)		53.7	+/- 19.7

ph/seg (deg) 42.4 47.2 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.2 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.3 27.8 Inc. seg. avg. 0.100 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.5 48.6 Inc. frq. avg. 0.114 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 99.1 el 35.1 pa -44.6 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9510.670 -1946.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bZ.W.26.18P9EC



Fringe quality 0
SNR 6.0
Int time 436.189
Amp 0.114
Phase -9.2
PFD 3.6e-01
Delays (us)
SBD 0.767998
MBD 0.007934
Fringe rate (Hz) 0.412892
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120800
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

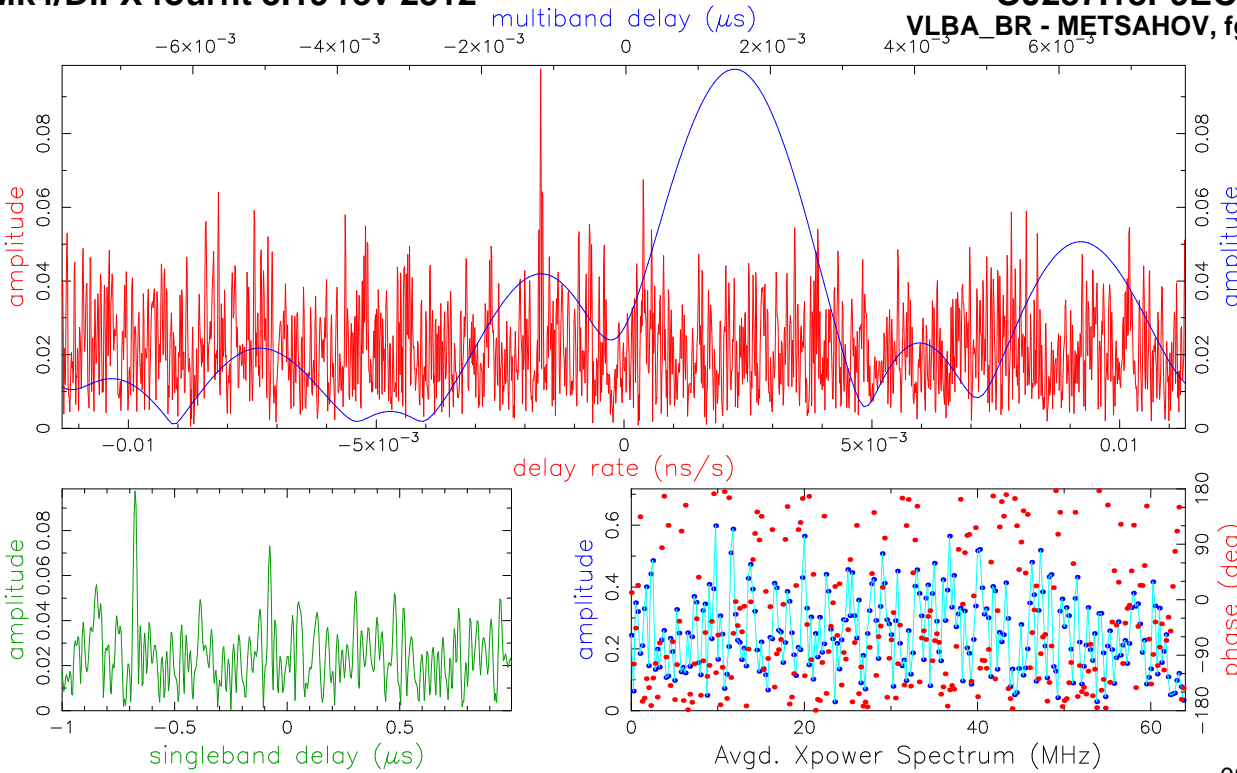


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.4	-8.2	8.8	-7.6	-30.8	15.7	-18.6	-14.4	Phase	-9.2
	0.1	0.2	0.1	0.1	0.0	0.1	0.2	0.1	Ampl.	0.1
	236.0	447.2	244.2	91.5	425.2	294.3	83.1	378.6	Sbd box	453.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs 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	
									Tracks	
Group delay (usec)(sbd)	5.47035998428E+03		Apriori delay (usec)		5.46958642562E+03		Resid mbdelay (usec)		7.93366E-03	+/- 1.8E-04
Sband delay (usec)	5.47035442362E+03		Apriori clock (usec)		-1.2830046E+00		Resid sbdelay (usec)		7.67998E-01	+/- 1.4E-03
Phase delay (usec)	5.46958642533E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		-2.96584E-07	+/- 6.1E-07
Delay rate (us/s)	1.55140573910E+00		Apriori rate (us/s)		1.55140094583E+00		Resid rate (us/s)		4.79327E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.38652194046E-05		Resid phase (deg)		-9.2	+/- 19.0

ph/seg (deg) 49.2 45.6 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.3 79.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.5 26.9 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.0 47.0 Inc. frq. avg. 0.103 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 99.1 el 35.1 pa -44.6 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9510.670 -1946.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bZ.W.45.18P9EC

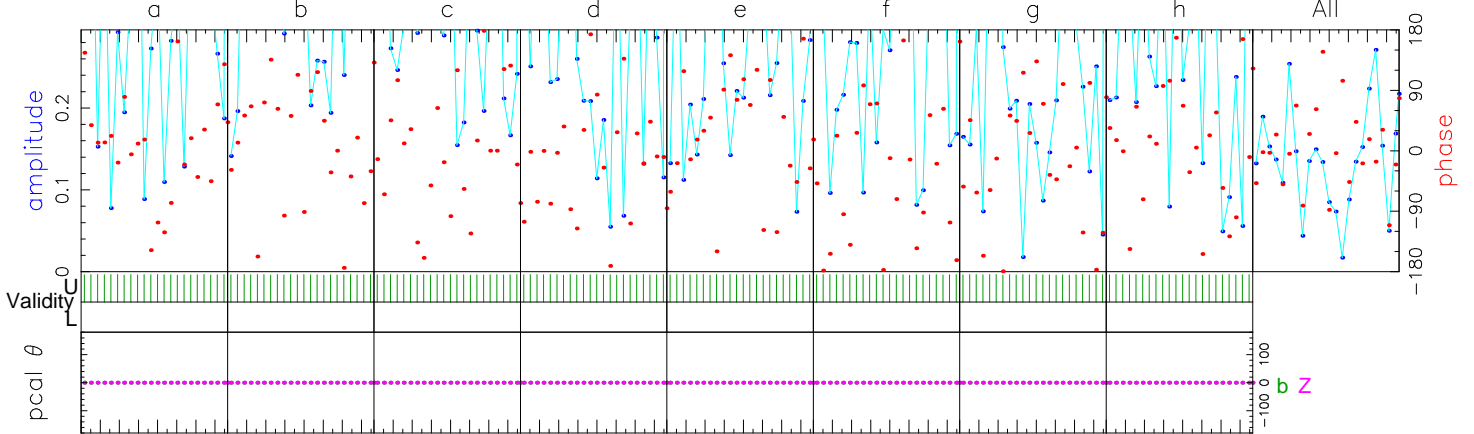
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, bZ
VLBA_BR - METSAHOV, fgroup W, pol LR



Fringe quality 0
SNR 5.6
Int time 436.190
Amp 0.099
Phase 1.8
PFD 1.0e+00
Delays (us)
SBD -0.675318
MBD 0.001518
Fringe rate (Hz)
-0.144847
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120804
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



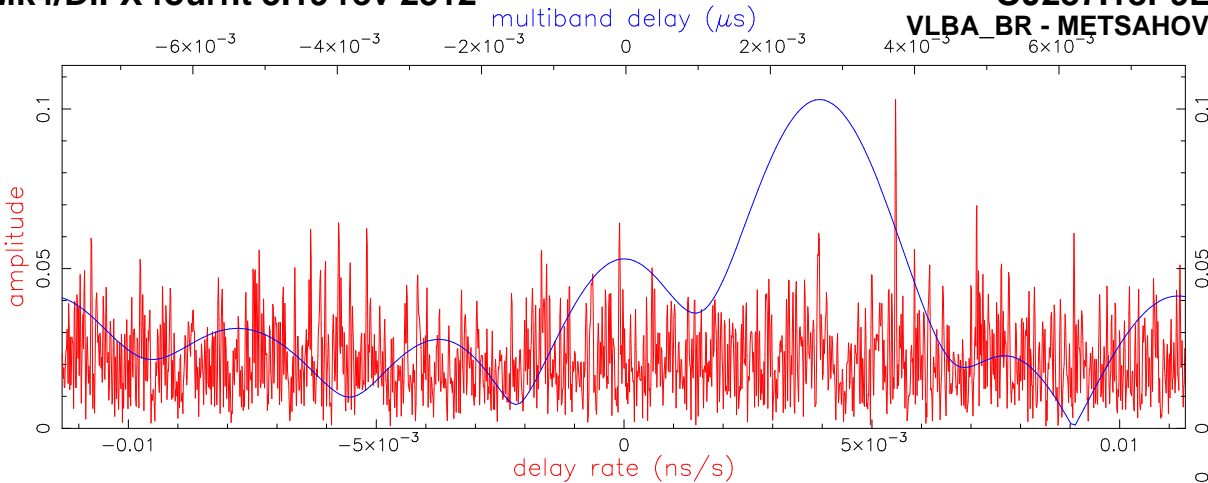
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	7.9	25.6	-20.9	-22.3	46.8	-8.0	-10.1	13.9		
Sband delay (usec)	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1		
Phase delay (usec)	318.9	445.8	37.9	354.6	117.0	335.0	237.2	35.2		
Delay rate (us/s)	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Total phase (deg)			254.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
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)										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256										
t_cohere infinite										
simultaneous interpolator										

b: az 99.1 el 35.1 pa -44.6 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9510.670 -1946.312
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bZ.W.66.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

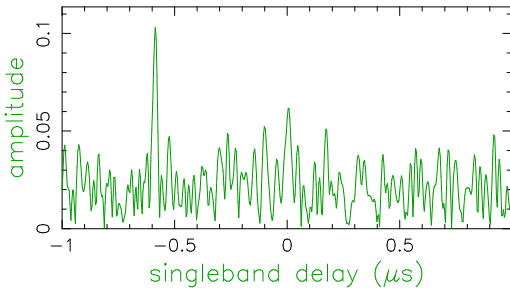
OJ287.18P9EC, No0027, bZ

VLBA_BR - METSAHOV, fgroup W, pol RL

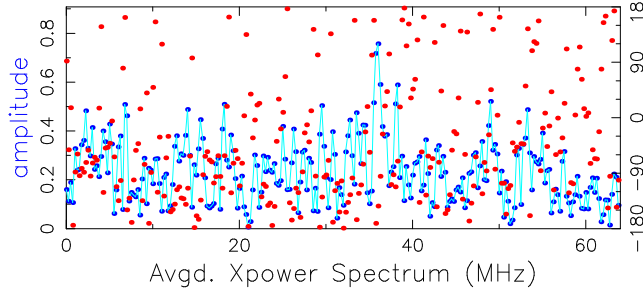


Fringe quality 0

SNR 5.9
 Int time 436.189
 Amp 0.114
 Phase -40.6
 PFD 6.4e-01
 Delays (us)
 SBD -0.585621
 MBD 0.002681
 Fringe rate (Hz)
 0.472887
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

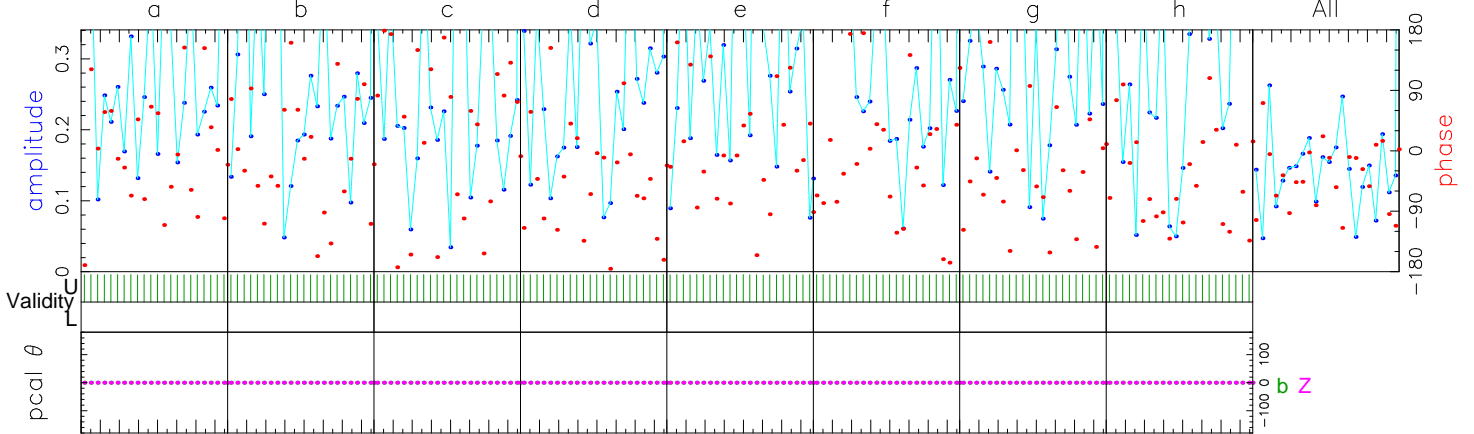


delay rate (ns/s)



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120808
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
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)	5.46899535615E+03	Apriori delay (usec)	5.46958642562E+03	Resid mbdelay (usec)	2.68053E-03	+/-	1.8E-04
Sband delay (usec)	5.46900080437E+03	Apriori clock (usec)	-1.2830046E+00	Resid sbdelay (usec)	-5.85621E-01	+/-	1.5E-03
Phase delay (usec)	5.46958642431E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-1.30903E-06	+/-	6.3E-07
Delay rate (us/s)	1.55140643558E+00	Apriori rate (us/s)	1.55140094583E+00	Resid rate (us/s)	5.48975E-06	+/-	2.5E-09
Total phase (deg)	212.5	Apriori accel (us/s/s)	-3.38652194046E-05	Resid phase (deg)	-40.6	+/-	19.5

ph/seg (deg)	47.9	Theor.	46.7	Amplitude	0.114 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	77.4		81.5	Search (2048X32)	0.101	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	61.4		27.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	46.4		48.1	Inc. seg. avg.	0.119	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 99.1 el 35.1 pa -44.6 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9510.670 -1946.312 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bZ.W.80.18P9EC