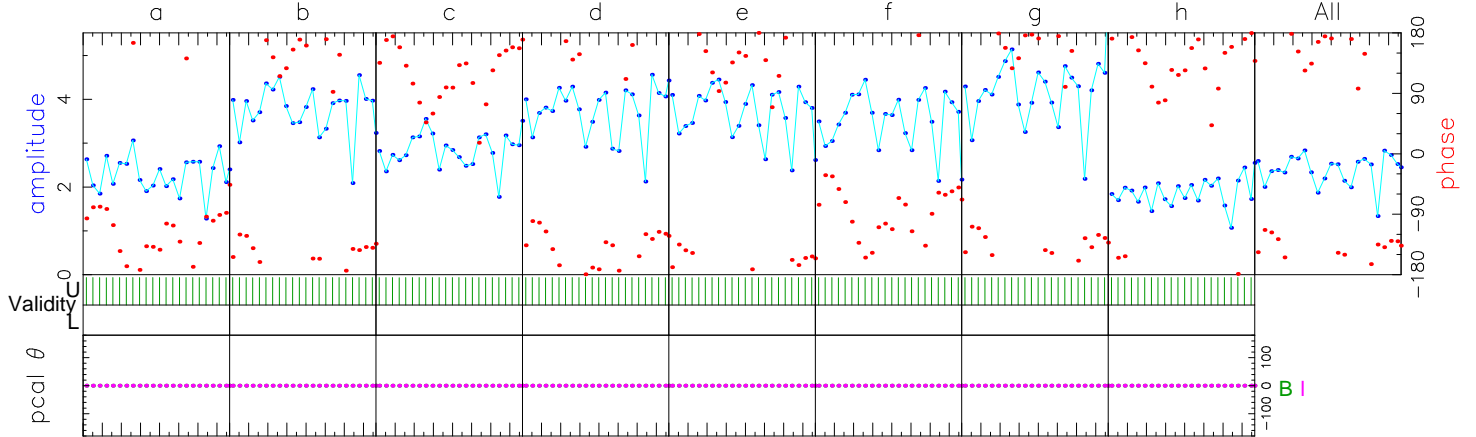


Fringe quality 2

SNR 105.4
Int time 439.394
Amp 1.839
Phase -169.1
PFD 0.0e+00
Delays (us)
SBD 0.000234
MBD 0.005726
Fringe rate (Hz) 0.000103
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

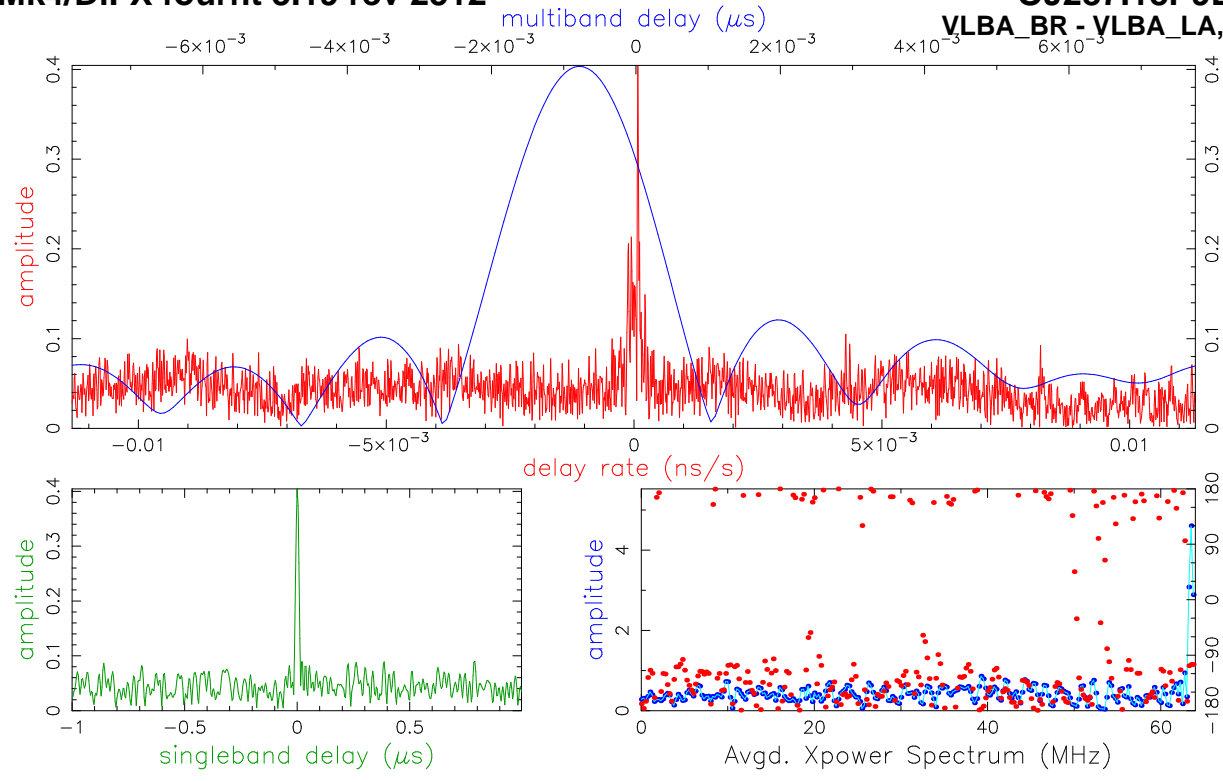
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120755
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



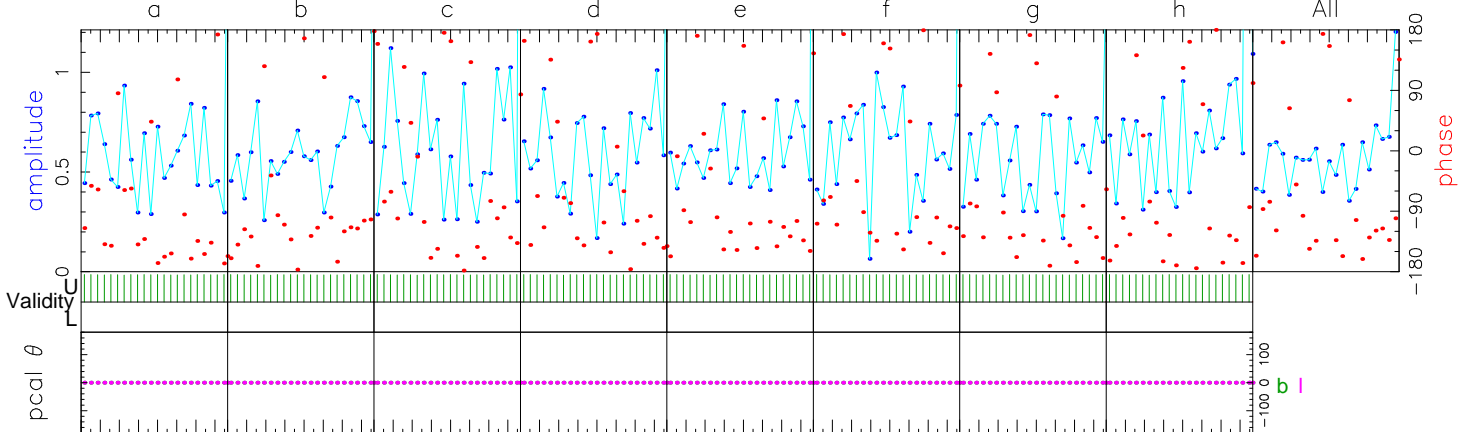
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-126.3	-176.9	114.8	-155.2	163.9	-92.6	-166.1	142.8	Phase	-169.1
	1.8	2.9	2.1	2.9	2.8	2.8	3.2	1.4	Ampl.	2.5
	253.8	256.3	257.5	257.7	257.9	257.6	256.6	252.4	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.50389686940E+03		Apriori delay (usec)		-5.50390259524E+03		Resid mbdelay (usec)		5.72584E-03	+/- 1.0E-05
Sband delay (usec)	-5.50390236124E+03		Apriori clock (usec)		1.6745152E+01		Resid sbdelay (usec)		2.34000E-04	+/- 8.2E-05
Phase delay (usec)	-5.50390260069E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-5.45358E-06	+/- 3.5E-08
Delay rate (us/s)	-1.69609389015E+00		Apriori rate (us/s)		-1.69609389135E+00		Resid rate (us/s)		1.19321E-09	+/- 1.4E-10
Total phase (deg)			Apriori accel (us/s/s)		3.65935628599E-05		Resid phase (deg)		-169.1	+/- 1.1

ph/seg (deg) 40.4 2.6 Search (2048X32) 1.817 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 35.5 4.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.9 1.5 Inc. seg. avg. 2.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.0 2.7 Inc. frq. avg. 2.472 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 265.9 el 29.7 pa 42.5 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 simultaneous interpolator



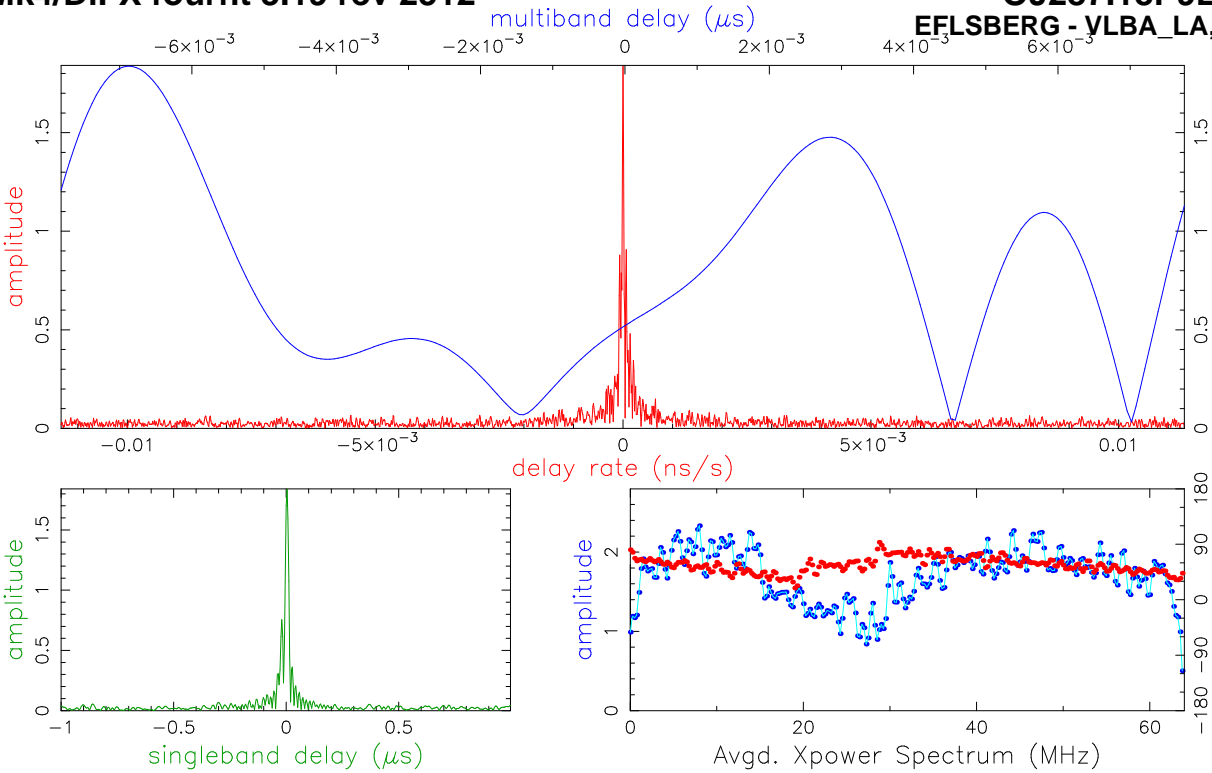
Fringe quality 9
SNR 23.1
Int time 436.384
Amp 0.404
Phase -129.1
PFD 0.0e+00
Delays (us)
SBD 0.000595
MBD -0.000781
Fringe rate (Hz) 0.006385
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
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

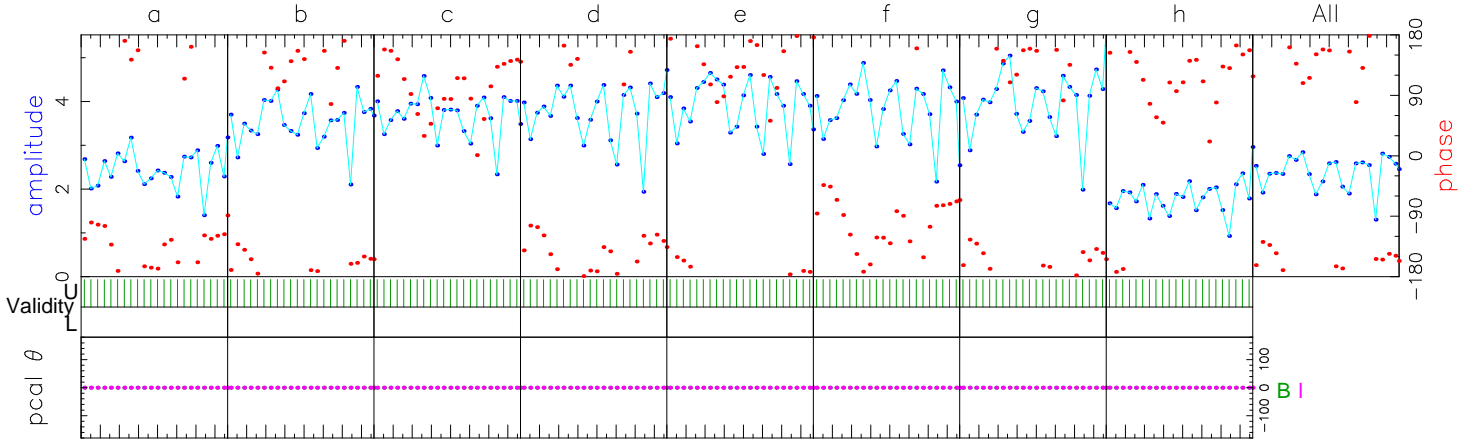


Fringe quality 2

SNR 105.6
Int time 439.394
Amp 1.841
Phase 174.2
PFD 0.0e+00
Delays (us)
SBD 0.003330
MBD -0.006898
Fringe rate (Hz) 0.000109
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"

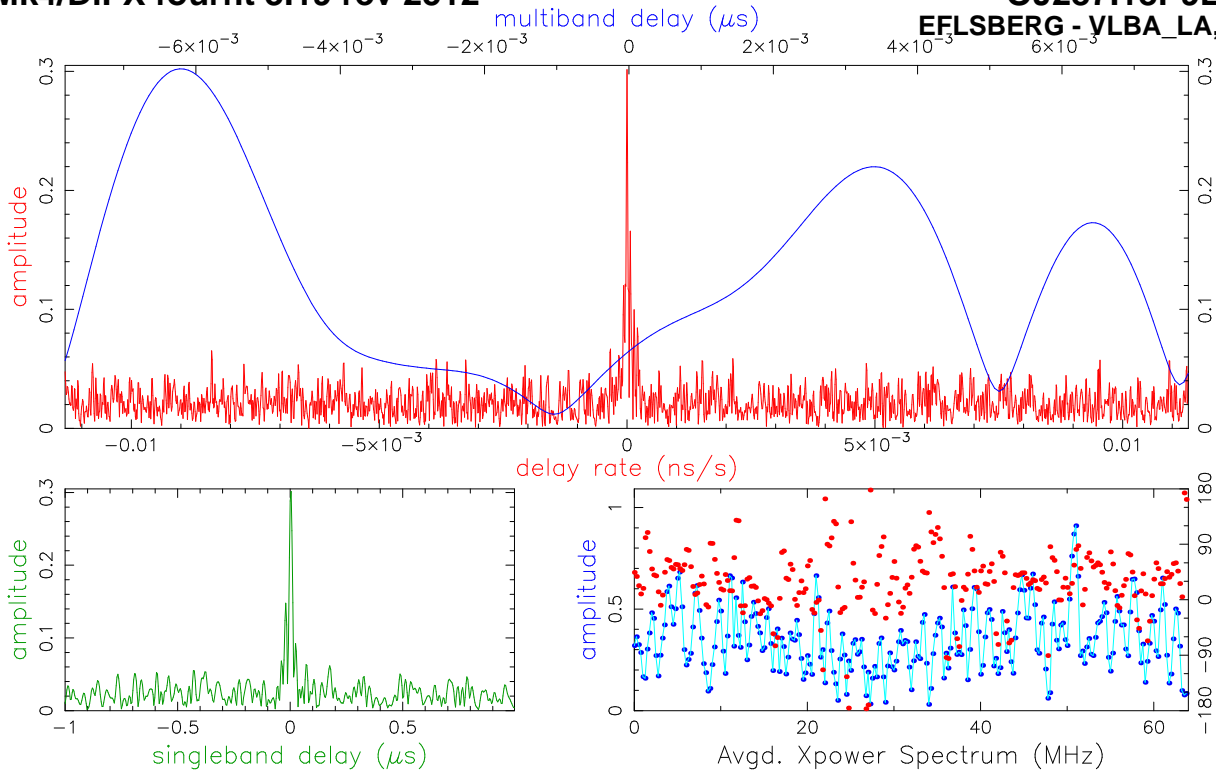
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.50389386871E+03									
Sband delay (usec)	-5.50389926499E+03									
Phase delay (usec)	-5.50390258962E+03									
Delay rate (us/s)	-1.69609389008E+00									
Total phase (deg)			-25.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode										
PC period (AP's)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

B: az 265.9 el 29.7 pa 42.5 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BI..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BI.W.42.18P9EC

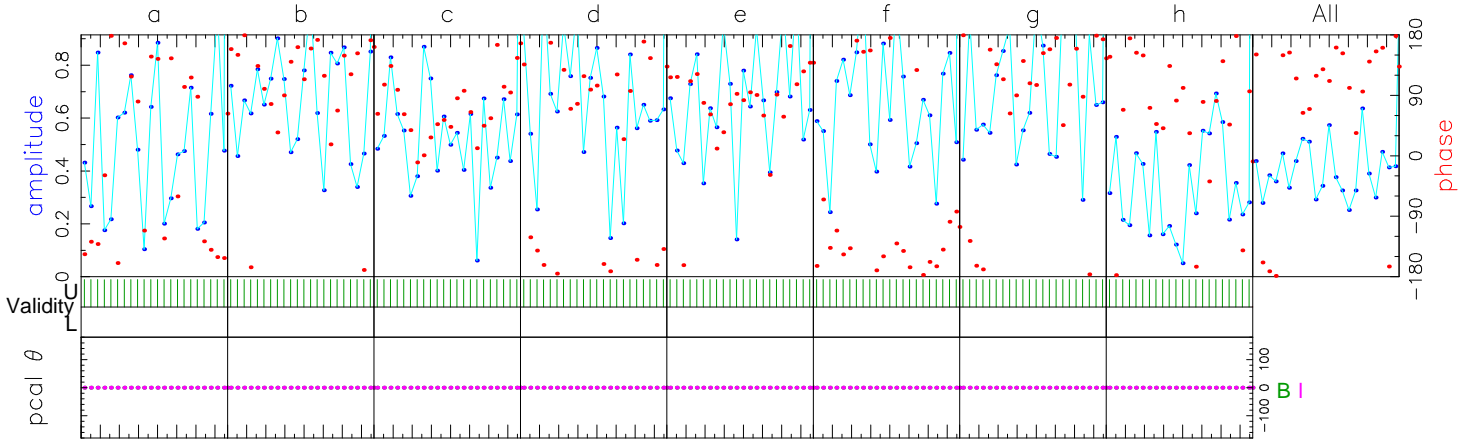


Fringe quality 7

SNR 17.5
Int time 439.394
Amp 0.305
Phase 135.8
PFD 0.0e+00
Delays (us)
SBD 0.002677
MBD -0.006283
Fringe rate (Hz) 0.000110
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

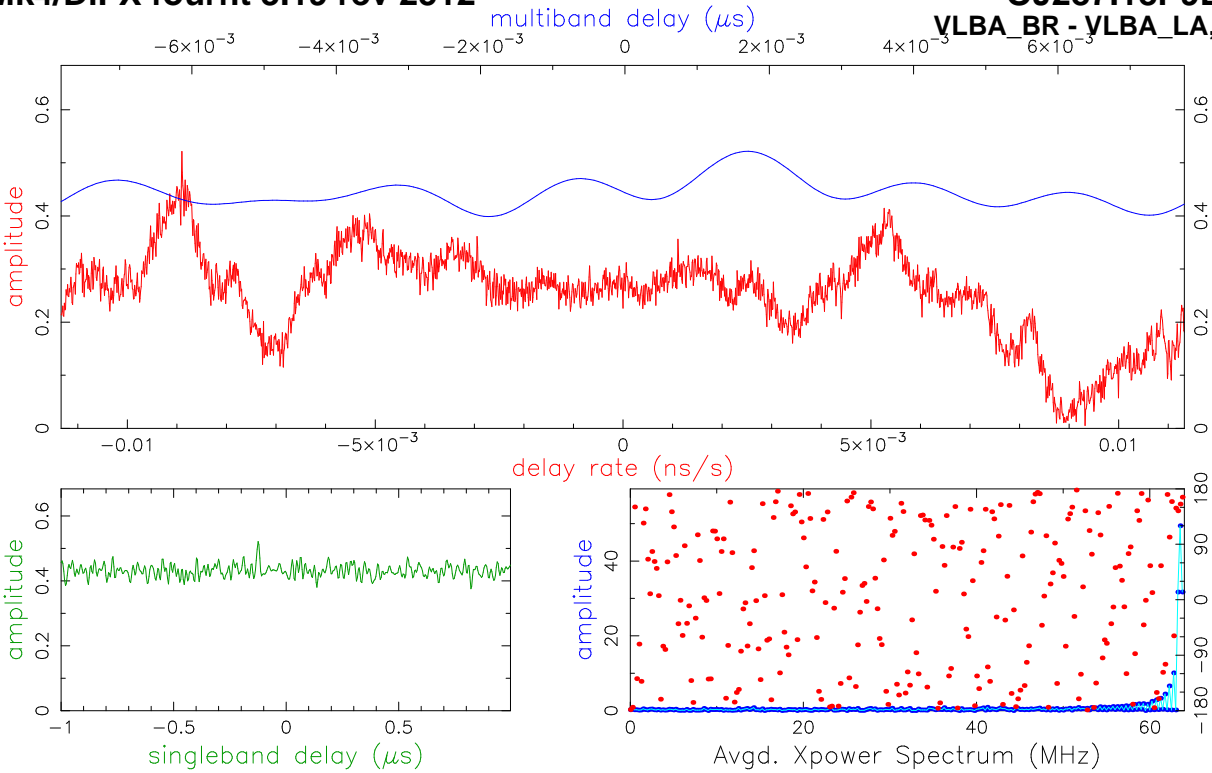
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120802
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



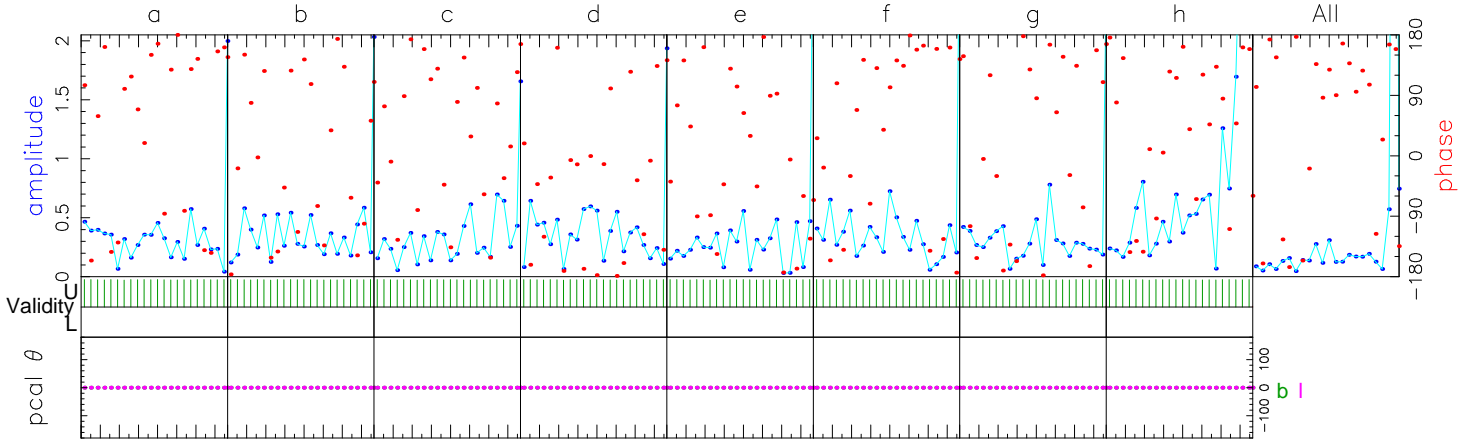
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	176.7	130.9	71.8	147.3	91.5	-152.5	140.8	110.5	Phase	135.8
B	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.2	Ampl.	0.4
I	254.7	257.3	258.2	258.1	258.9	258.7	257.3	253.9	Sbd box	257.7
B	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.50389325315E+03		Apriori delay (usec)		-5.50390259524E+03		Resid mbdelay (usec)		-6.28291E-03	+/- 6.2E-05
Sband delay (usec)	-5.50389991799E+03		Apriori clock (usec)		1.6745152E+01		Resid sbdelay (usec)		2.67725E-03	+/- 4.9E-04
Phase delay (usec)	-5.50390259086E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		4.37900E-06	+/- 2.1E-07
Delay rate (us/s)	-1.69609389007E+00		Apriori rate (us/s)		-1.69609389135E+00		Resid rate (us/s)		1.27966E-09	+/- 8.3E-10
Total phase (deg)			Apriori accel (us/s/s)		3.65935628599E-05		Resid phase (deg)		135.8	+/- 6.6

ph/seg (deg) 43.3 15.7 Search (2048X32) 0.299 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.6 27.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.8 9.3 Inc. seg. avg. 0.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.3 16.2 Inc. frq. avg. 0.399 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 265.9 el 29.7 pa 42.5 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BI..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BI.W.60.18P9EC

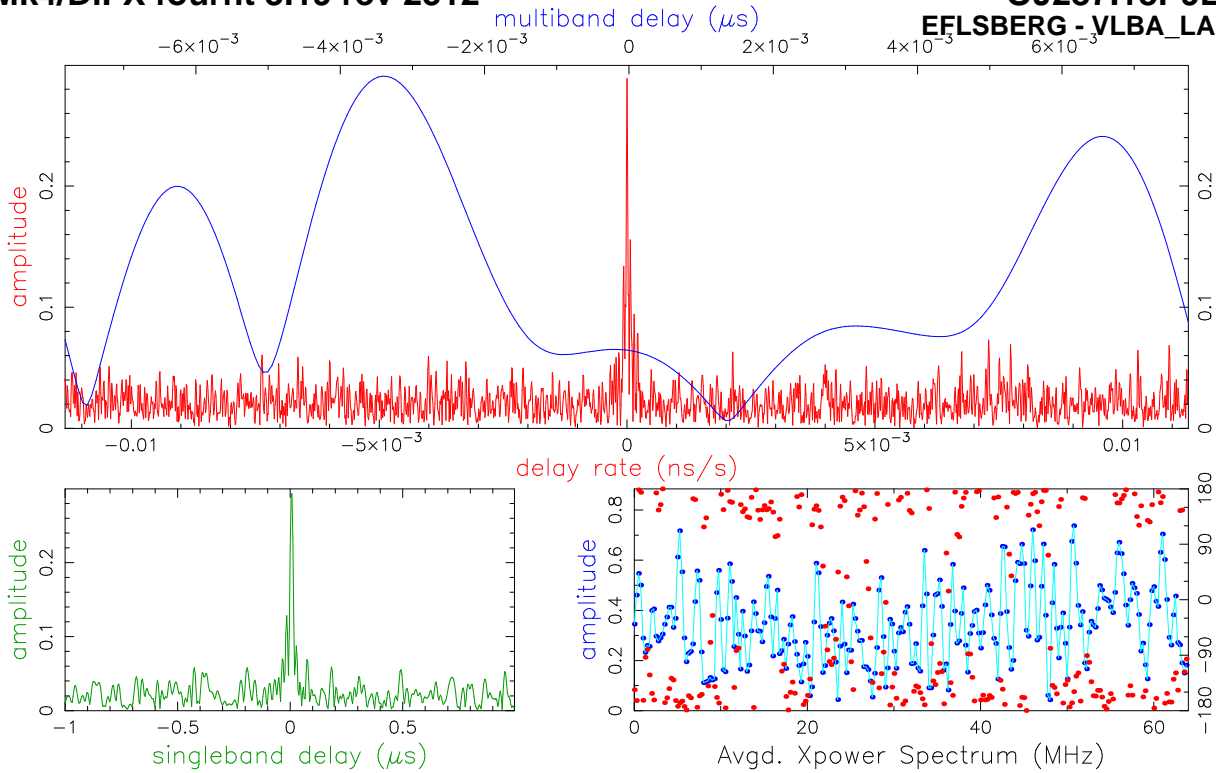


Fringe quality 3
SNR 29.8
Int time 436.384
Amp 0.684
Phase 156.3
PFD 0.0e+00
Delays (us)
SBD -0.124096
MBD 0.001651
Fringe rate (Hz)
-0.768234
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
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								1.65051E-03	+/- 3.6E-05
Sband delay (usec)	-3.32307124568E+03								-1.24096E-01	+/- 2.9E-04
Phase delay (usec)	-3.32294714488E+03								5.04181E-06	+/- 1.2E-07
Delay rate (us/s)	-4.93537336574E-03								-8.91844E-06	+/- 4.9E-10
Total phase (deg)			-21.7						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

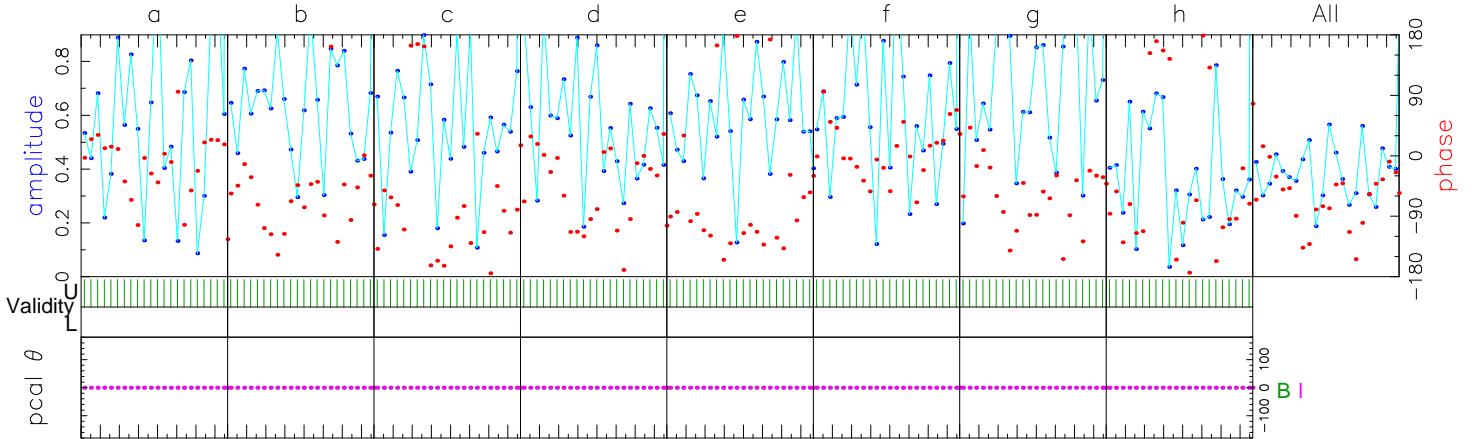


Fringe quality 7

SNR 17.2
Int time 439.394
Amp 0.300
Phase -62.4
PFD 0.0e+00
Delays (us)
SBD 0.006109
MBD -0.003261
Fringe rate (Hz) 0.000117
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

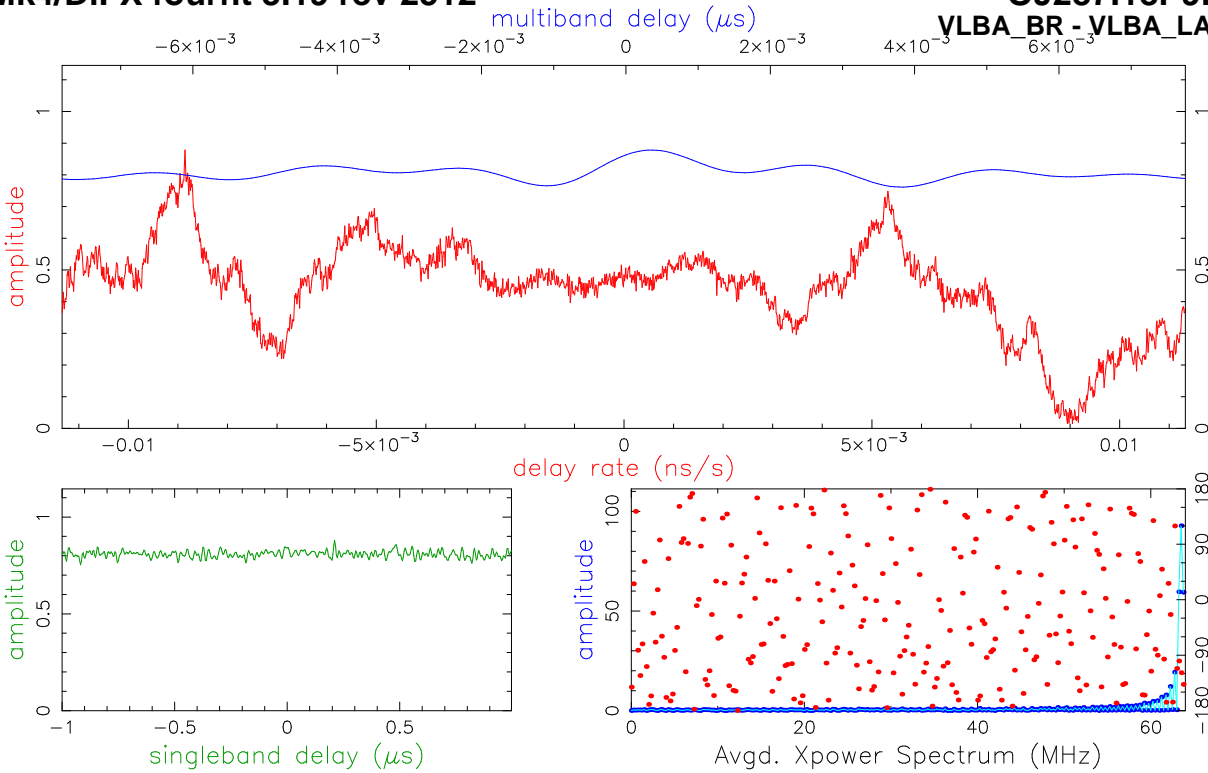


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.0	-71.7	-121.3	-44.8	-109.6	6.7	-56.7	-130.2	Phase	-62.4
	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.2	Ampl.	0.4
	255.9	258.2	259.8	258.9	259.5	259.3	258.2	254.8	Sbd box	258.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.50389023115E+03		Apriori delay (usec)		-5.50390259524E+03		Resid mbdelay (usec)		-3.26091E-03	+/- 6.3E-05
Sband delay (usec)	-5.50389648599E+03		Apriori clock (usec)		1.6745152E+01		Resid sbdelay (usec)		6.10925E-03	+/- 5.0E-04
Phase delay (usec)	-5.50390259725E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-2.01317E-06	+/- 2.2E-07
Delay rate (us/s)	-1.69609388998E+00		Apriori rate (us/s)		-1.69609389135E+00		Resid rate (us/s)		1.36326E-09	+/- 8.5E-10
Total phase (deg)			Apriori accel (us/s/s)		3.65935628599E-05		Resid phase (deg)		-62.4	+/- 6.7

	RMS	Theor.	Amplitude	0.300 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.3	16.0	Search (2048X32)	0.289	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	43.2	27.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	54.7	9.4	Inc. seg. avg.	0.371	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	45.2	16.5	Inc. frq. avg.	0.401	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

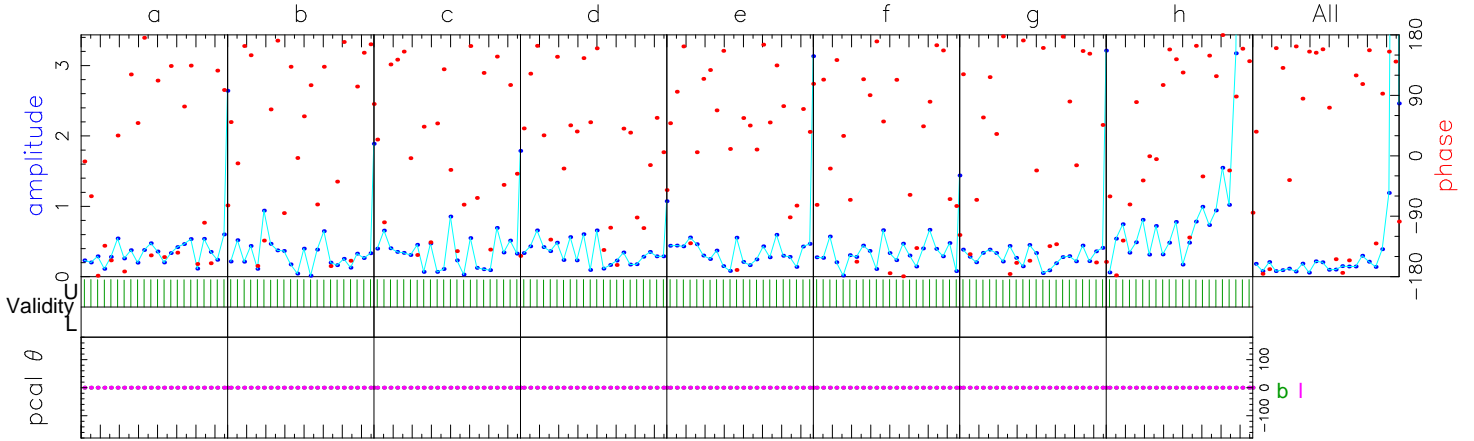
B: az 265.9 el 29.7 pa 42.5 I: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 10396.340 2550.302 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/BI..18P9EC Output file: /Exps/c201a/v1/1234/No0027/BI.W.8.18P9EC



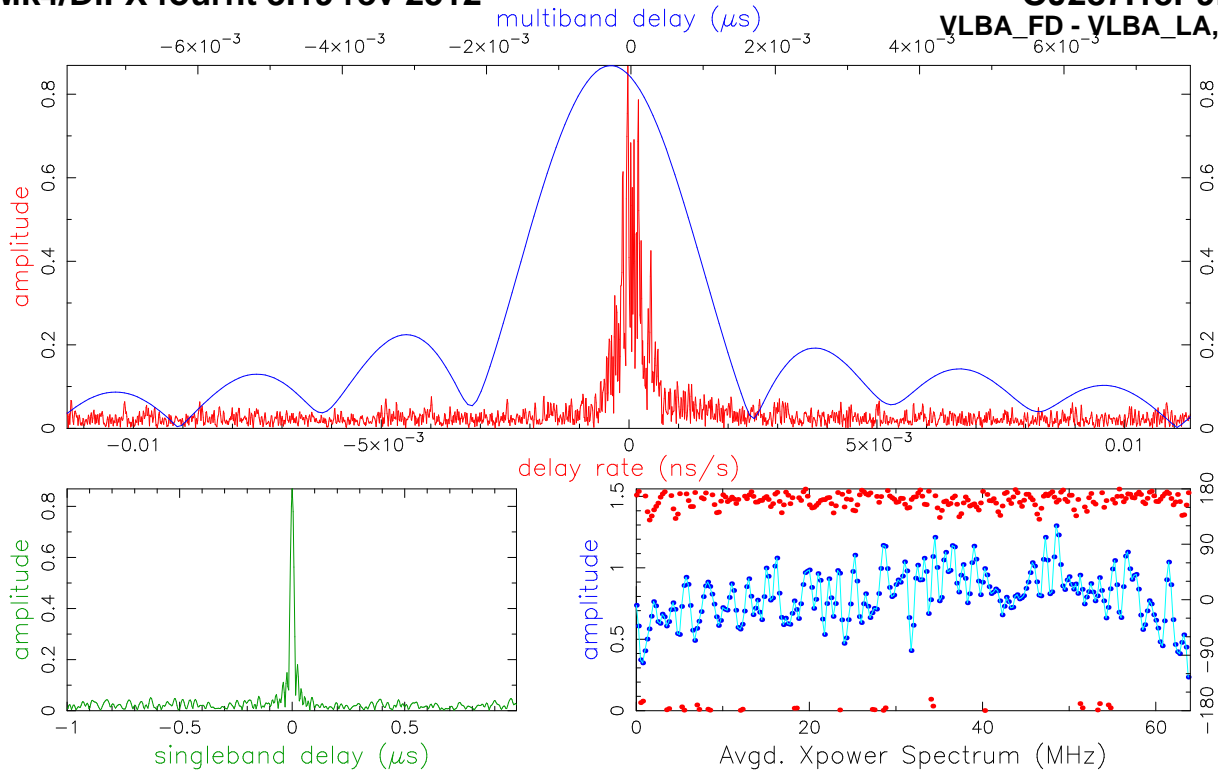
Fringe quality 1
SNR 50.2
Int time 436.385
Amp 1.146
Phase 141.3
PFD 0.0e+00
Delays (us)
SBD 0.210667
MBD 0.000378
Fringe rate (Hz)
-0.763824
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
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



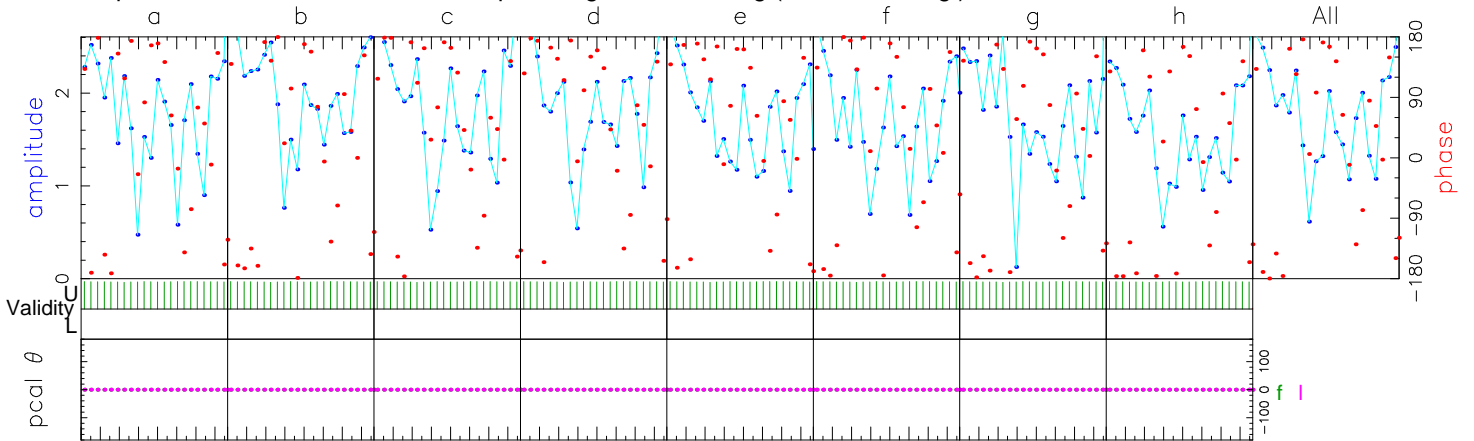
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)										
pcal θ										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
1.146 +/- 0.023										
0.862										
1.0899999E-07										
-4.92645492670E-03										
2.38649231658E-05										
3.78457E-04										
2.10667E-01										
4.55510E-06										
-8.86724E-06										
141.3										
+/- 2.2E-05										
+/- 1.7E-04										
+/- 7.4E-08										
+/- 2.9E-10										
+/- 2.3										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000										
1.000										
-0.008										
0.008										
-0.011										
0.011										
0.00										
0.00										

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.9.18P9EC



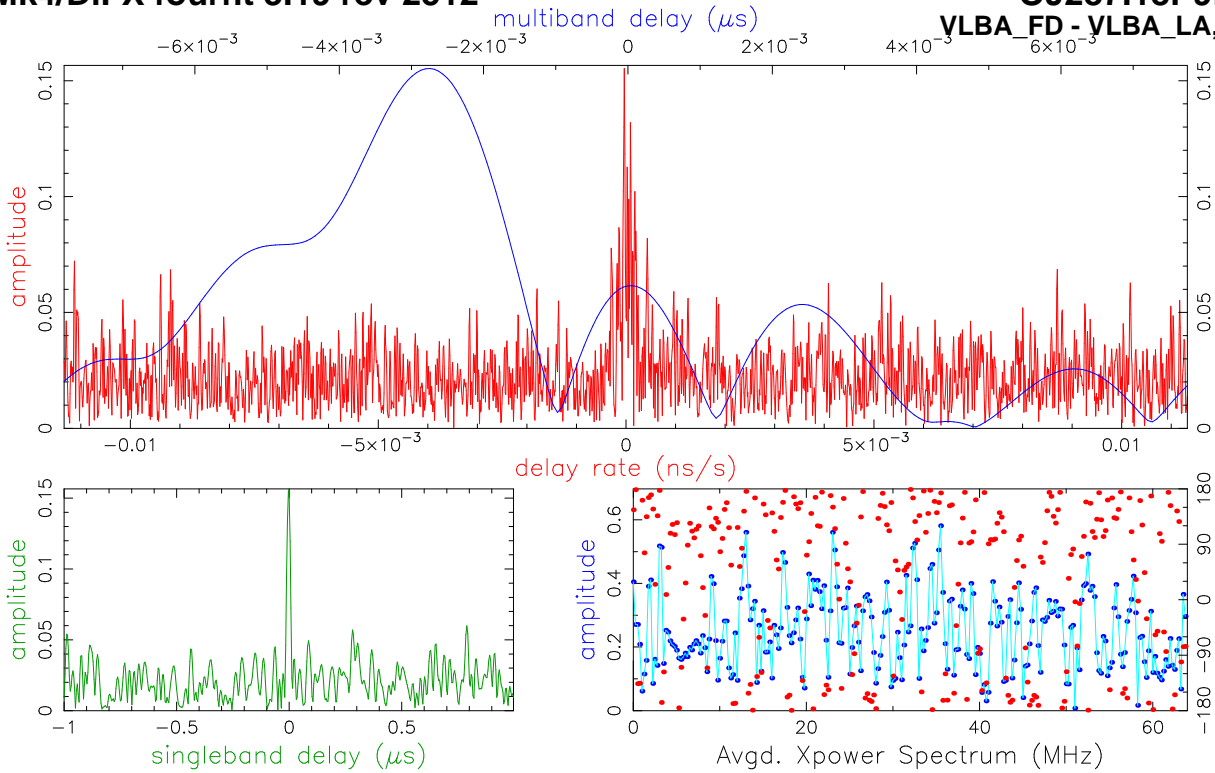
Fringe quality 5
SNR 49.6
Int time 435.128
Amp 0.869
Phase 164.2
PFD 0.0e+00
Delays (us)
SBD -0.000270
MBD -0.000286
Fringe rate (Hz)
-0.002369
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120814
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



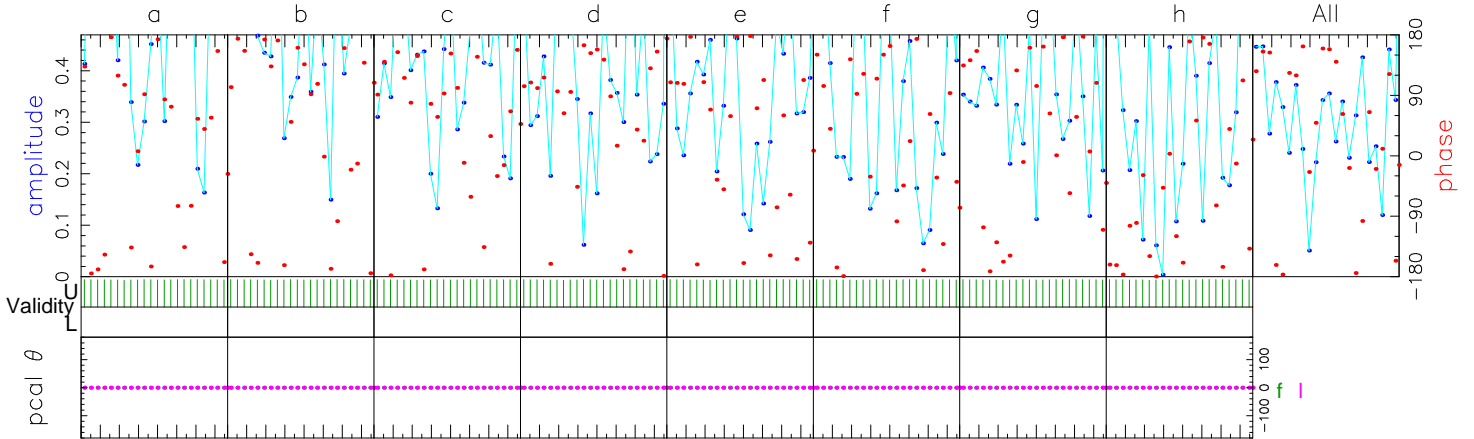
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	164.1	172.1	161.0	155.2	157.5	168.2	172.1	162.7	Phase	164.2
	0.9	0.9	0.8	0.9	0.8	0.8	0.9	0.8	Ampl.	0.9
	257.4	256.7	256.7	256.9	256.7	256.9	257.0	257.2	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.33598578284E+02		Apriori delay (usec)		6.33598864302E+02		Resid mbdelay (usec)		-2.86017E-04	+/- 2.2E-05
Sband delay (usec)	6.33598594052E+02		Apriori clock (usec)		7.5745029E+00		Resid sbdelay (usec)		-2.70250E-04	+/- 1.7E-04
Phase delay (usec)	6.33598869596E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		5.29424E-06	+/- 7.5E-08
Delay rate (us/s)	1.35222043402E-02		Apriori rate (us/s)		1.35222318393E-02		Resid rate (us/s)		-2.74991E-08	+/- 2.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-6.22795766567E-06		Resid phase (deg)		164.2	+/- 2.3

ph/seg (deg) 81.6 5.5 Search (2048X32) 0.812 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 119.9 9.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 6.8 3.3 Inc. seg. avg. 1.763 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 5.9 5.7 Inc. frq. avg. 0.872 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 94.6 el 49.5 pa -66.0 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -91.823 -802.433 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fl.W.102.18P9EC simultaneous interpolator



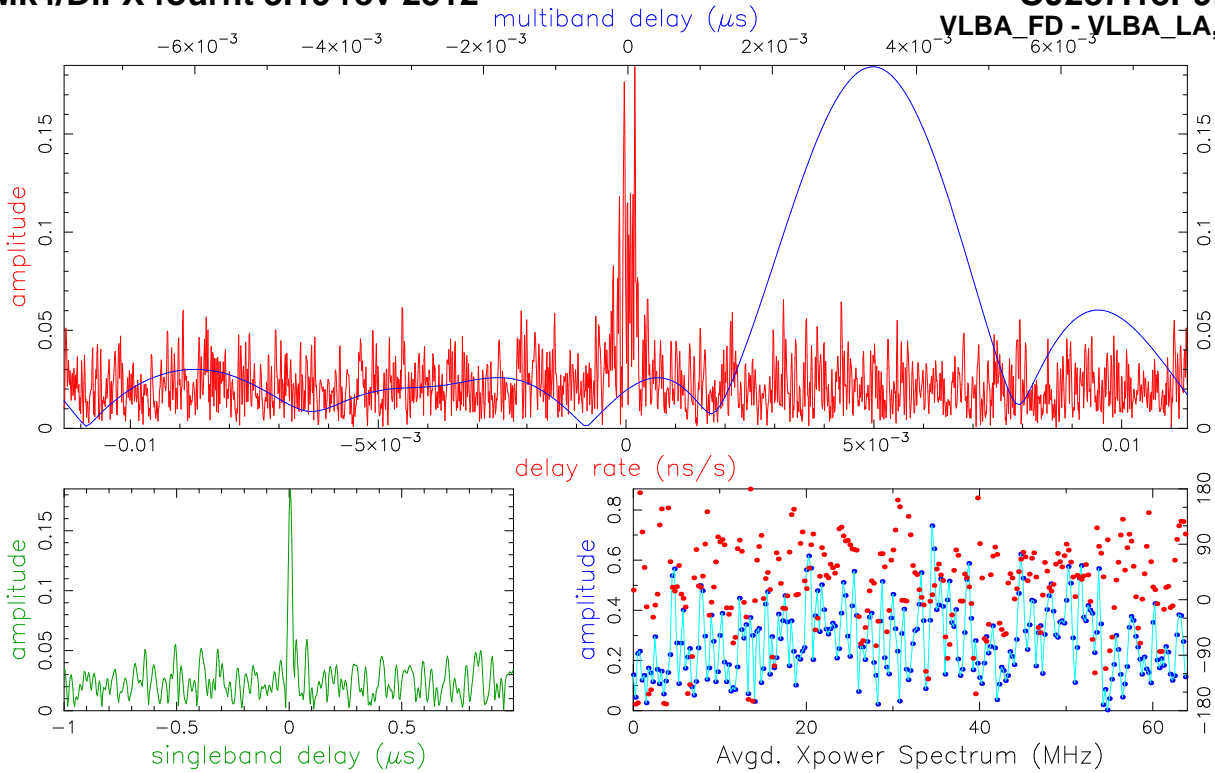
Fringe quality 9
SNR 8.9
Int time 435.128
Amp 0.157
Phase 147.2
PFD 1.6e-10
Delays (us)
SBD -0.002678
MBD -0.002752
Fringe rate (Hz)
-0.002404
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120819
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



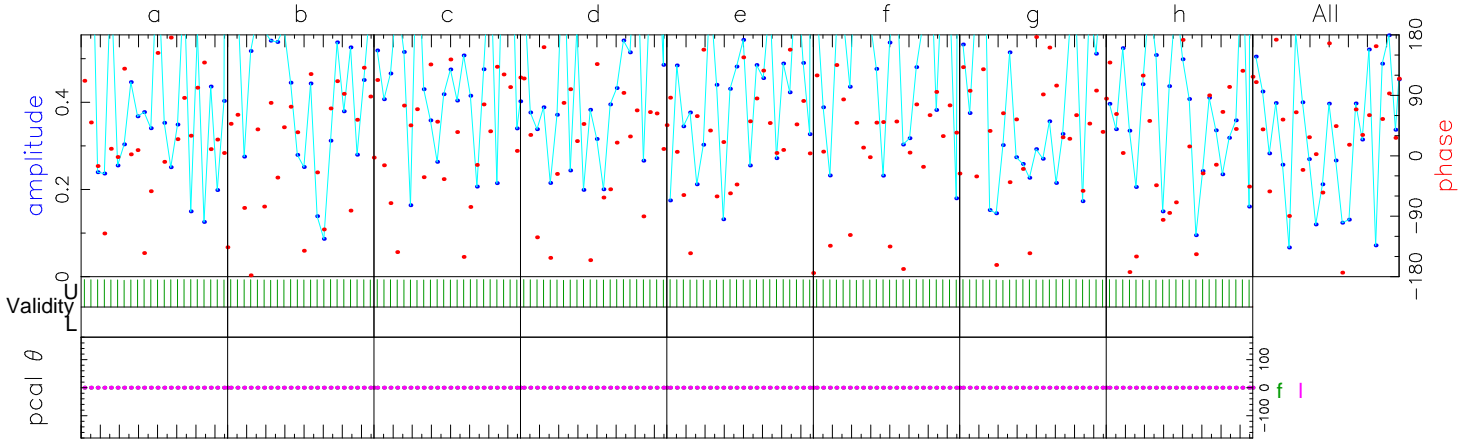
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	6.33596112128E+02		Apriori delay (usec)		6.33598864302E+02		Resid mbdelay (usec)		-2.75217E-03	+/- 1.2E-04
Sband delay (usec)	6.33596186802E+02		Apriori clock (usec)		7.5745029E+00		Resid sbdelay (usec)		-2.67750E-03	+/- 9.6E-04
Phase delay (usec)	6.33598869048E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		4.74625E-06	+/- 4.1E-07
Delay rate (us/s)	1.35222039327E-02		Apriori rate (us/s)		1.35222318393E-02		Resid rate (us/s)		-2.79065E-08	+/- 1.6E-09
Total phase (deg)	208.7		Apriori accel (us/s/s)		-6.22795766567E-06		Resid phase (deg)		147.2	+/- 12.8

ph/seg (deg) 83.3 30.8 Search (2048X32) 0.146 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 113.8 53.7 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 18.1 Inc. seg. avg. 0.265 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.5 31.7 Inc. frq. avg. 0.164 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 94.6 el 49.5 pa -66.0 l: az 98.8 el 47.0 pa -58.5 u, v (fr/asec) -91.823 -802.433 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fl.W.122.18P9EC simultaneous interpolator



Fringe quality 9
SNR 10.5
Int time 435.128
Amp 0.185
Phase 58.3
PFD 2.3e-17
Delays (us)
SBD 0.004749
MBD 0.003409
Fringe rate (Hz) 0.015345
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
2020:197:120824
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

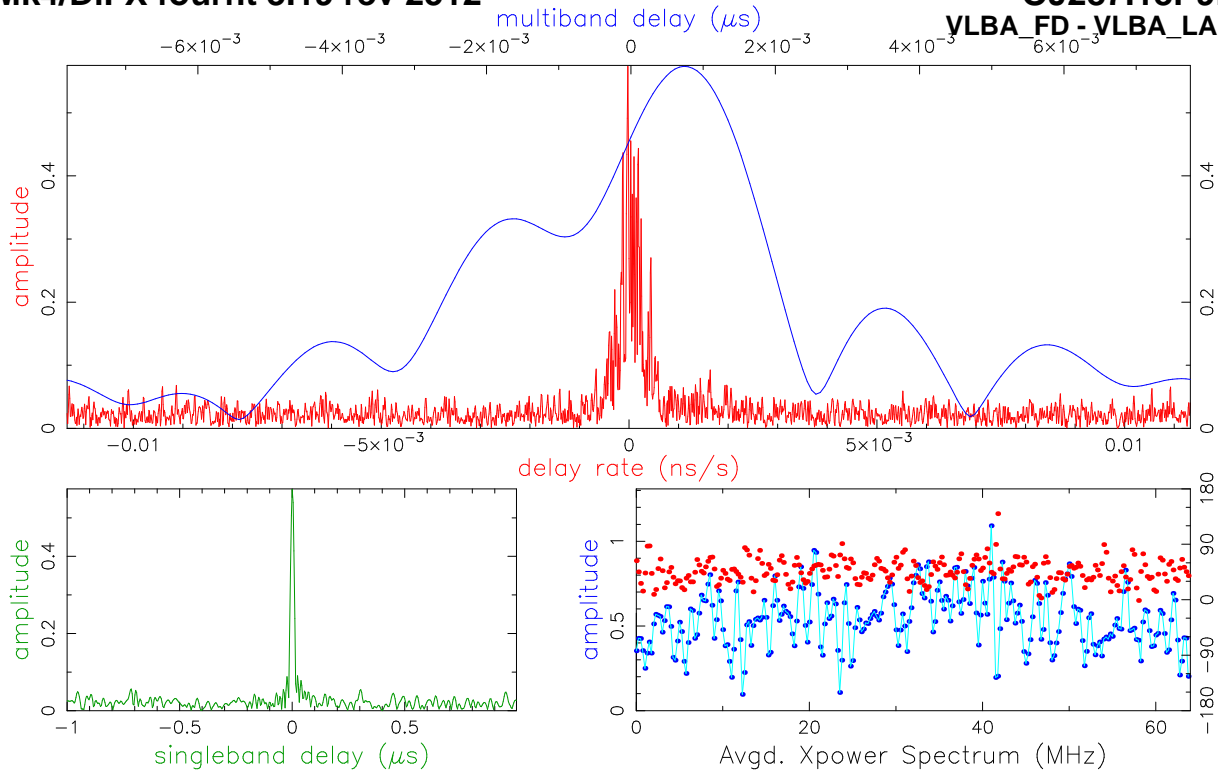


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	6.33602273633E+02	Apriori delay (usec)	6.33598864302E+02	Resid mbdelay (usec)	3.40933E-03	+/-	1.0E-04
Sband delay (usec)	6.33603613052E+02	Apriori clock (usec)	7.5745029E+00	Resid sbdelay (usec)	4.74875E-03	+/-	8.2E-04
Phase delay (usec)	6.33598866181E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	1.87889E-06	+/-	3.5E-07
Delay rate (us/s)	1.35224099763E-02	Apriori rate (us/s)	1.35222318393E-02	Resid rate (us/s)	1.78137E-07	+/-	1.4E-09
Total phase (deg)	119.8	Apriori accel (us/s/s)	-6.22795766567E-06	Resid phase (deg)	58.3	+/-	10.9

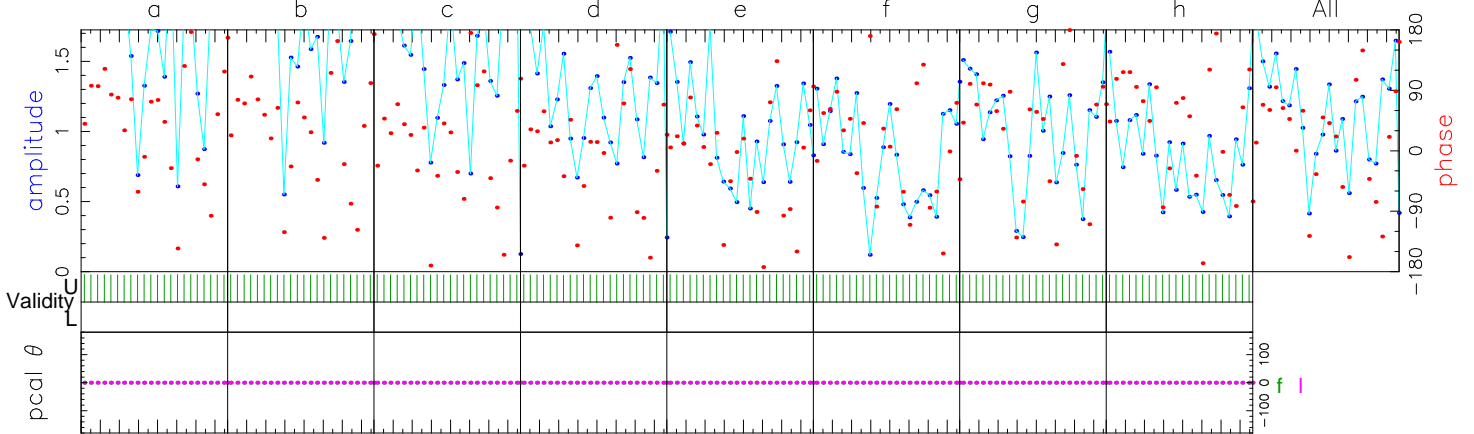
ph/seg (deg)	73.1	RMS	26.1	Theor.	26.1	Amplitude	0.185 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	111.3	Search (2048X32)	0.182	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled	sb window (us)	-1.000 1.000
ph/frq (deg)	10.5	Inc. seg. avg.	0.293	Inc. frq. avg.	0.180	Bits/sample: 2x2		Sample rate(MISamp/s): 128	mb window (us)	-0.008 0.008
amp/frq (%)	28.9	Inc. frq. avg.	0.180			Data rate(Mb/s): 2048		nlags: 256	dr window (ns/s)	-0.011 0.011

f: az 94.6 el 49.5 pa -66.0 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -91.823 -802.433 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fl.W.142.18P9EC



Fringe quality 4
SNR 32.8
Int time 435.128
Amp 0.575
Phase 44.8
PFD 0.0e+00
Delays (us)
SBD 0.000664
MBD 0.000759
Fringe rate (Hz)
-0.002362
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
2020:197:120810
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

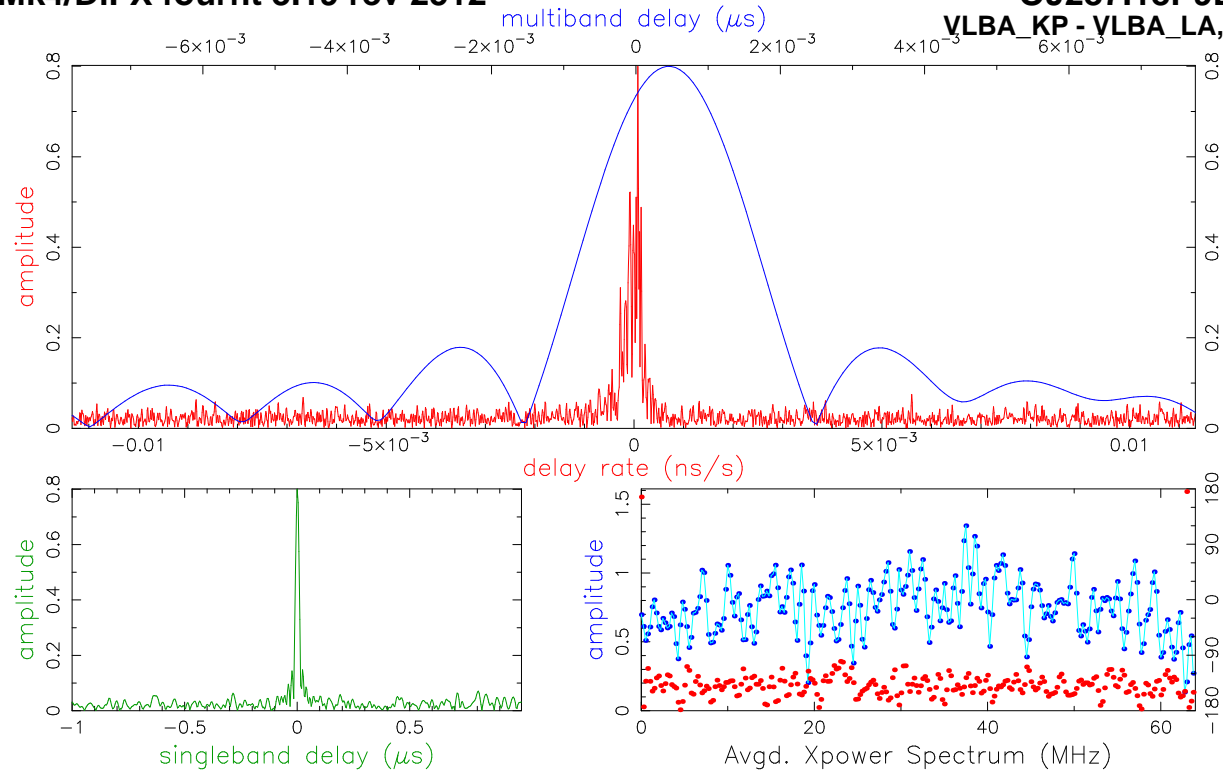
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
f	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.6
l	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.2
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.33599623034E+02	Apriori delay (usec)		6.33598864302E+02	Resid mbdelay (usec)		7.58733E-04	+/-	3.3E-05
Sband delay (usec)	6.33599528052E+02	Apriori clock (usec)		7.5745029E+00	Resid sbdelay (usec)		6.63750E-04	+/-	2.6E-04
Phase delay (usec)	6.33598865746E+02	Apriori clockrate (us/s)		2.6000000E-07	Resid phdelay (usec)		1.44483E-06	+/-	1.1E-07
Delay rate (us/s)	1.35222044202E-02	Apriori rate (us/s)		1.35222318393E-02	Resid rate (us/s)		-2.74191E-08	+/-	4.4E-10
Total phase (deg)	106.3	Apriori accel (us/s/s)		-6.22795766567E-06	Resid phase (deg)		44.8	+/-	3.5

ph/seg (deg)	81.7	RMS	8.4	Theor.	8.4	Amplitude	0.575 +/- 0.018	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	117.9	Search (2048X32)	0.532	Search (2048X32)	0.532	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	31.0	Inc. seg. avg.	1.147	Inc. seg. avg.	1.147	Inc. frq. avg.	0.636	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.4	Inc. frq. avg.	0.636	Inc. frq. avg.	0.636	Sample rate(MISamp/s): 128		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
f: az 94.6 el 49.5 pa -66.0		l: az 98.8 el 47.0 pa -58.5		u, v (fr/asec)		-91.823 -802.433		ion window (TEC)		0.00 0.00		simultaneous interpolator	

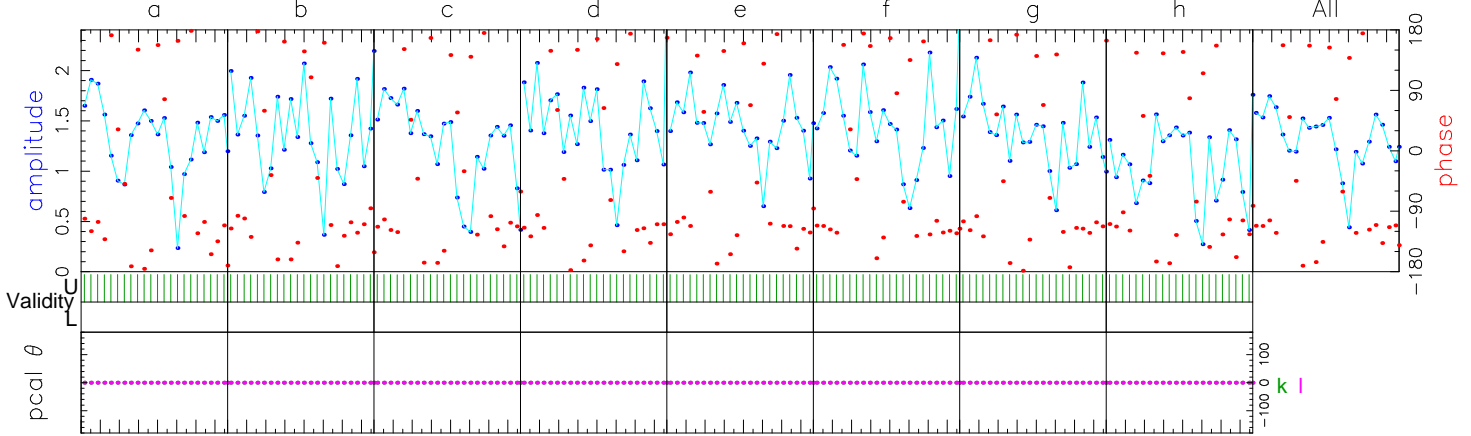


Fringe quality 7

SNR 46.0
Int time 439.452
Amp 0.802
Phase -138.4
PFD 0.0e+00
Delays (us)
SBD 0.000648
MBD 0.000467
Fringe rate (Hz) 0.006693
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
2020:197:120818
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

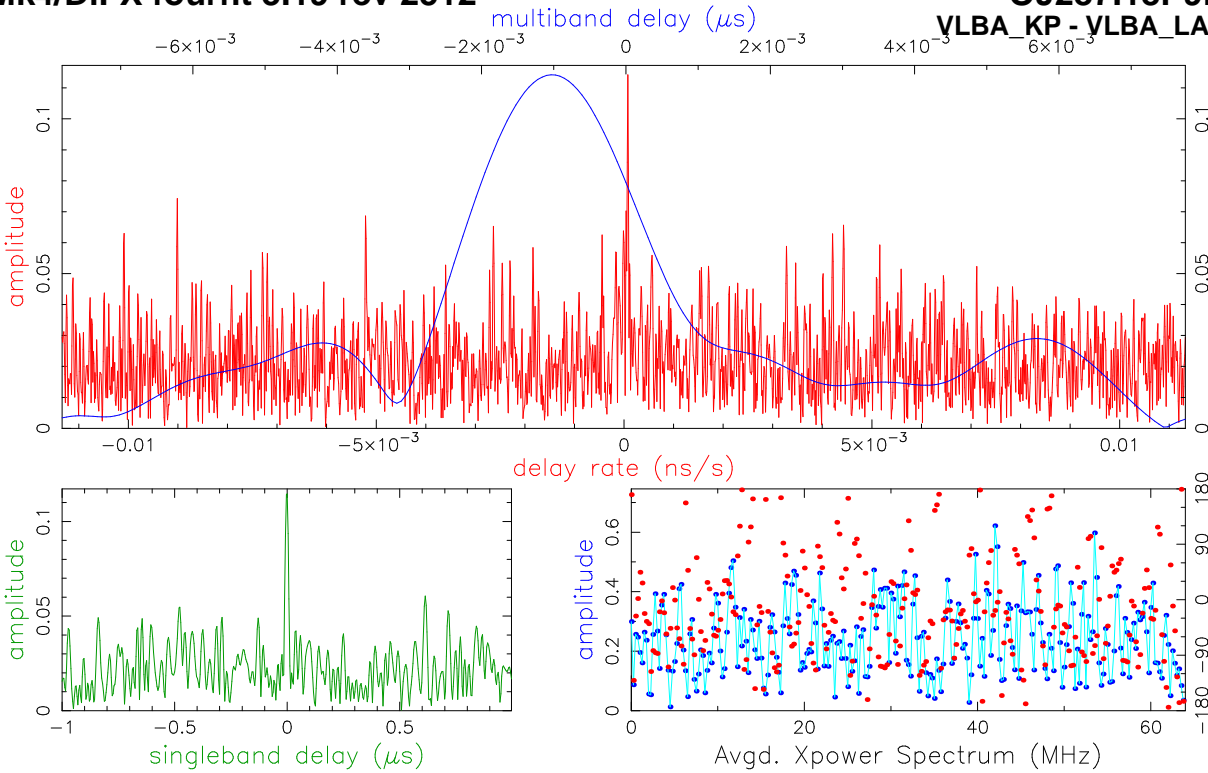


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.04152922541E+03	-1.04152904422E+03	-1.04152969693E+03	-1.04152922541E+03	-1.04152969247E+03	-1.04152969247E+03	-1.04152969247E+03	-1.04152969247E+03		
Sband delay (usec)	-139.8	-134.5	-136.8	-142.6	-136.2	-141.1	-132.5	-145.2		
Phase delay (usec)	0.8	0.9	0.7	0.8	0.8	0.9	0.8	0.6		
Delay rate (us/s)	257.1	257.1	256.8	257.5	256.9	257.4	257.2	257.3		
Total phase (deg)										-138.4
Apriori delay (usec)										4.67061E-04
Apriori clock (usec)										-138.4
Apriori clockrate (us/s)										2.4E-05
Apriori rate (us/s)										1.9E-04
Apriori accel (us/s/s)										8.0E-08
Resid mbdelay (usec)										-4.46211E-06
Resid sbdelay (usec)										7.76948E-08
Resid phdelay (usec)										-138.4
Resid rate (us/s)										2.5
Resid phase (deg)										
Pcal mode:										MANUAL, MANUAL
Pcal rate:										0.000E+00, 0.000E+00 (us/s)
PC period (AP's)										5, 5
sb window (us)										-1.000 1.000
mb window (us)										-0.008 0.008
dr window (ns/s)										-0.011 0.011
ion window (TEC)										0.00 0.00
ph/seg (deg)	65.6	6.0	Search (2048X32)	0.796						
amp/seg (%)	73.9	10.4	Interp.	0.000						
ph/frq (deg)	4.7	3.5	Inc. seg. avg.	1.316						
amp/frq (%)	11.9	6.2	Inc. frq. avg.	0.800						
k: az 91.6 el 42.9 pa -64.5			l: az 98.8 el 47.0 pa -58.5							
Control file: cf_1234_gmva			Input file: /Exps/c201a/v1/1234/No0027/kl.18P9EC							
			Output file: /Exps/c201a/v1/1234/No0027/kl.W.116.18P9EC							

Group delay (usec)(sbd) -1.04152922541E+03 Apriori delay (usec) -1.04152969247E+03 Resid mbdelay (usec) 4.67061E-04 +/- 2.4E-05
 Sband delay (usec) -1.04152904422E+03 Apriori clock (usec) 3.3427088E+00 Resid sbdelay (usec) 6.48250E-04 +/- 1.9E-04
 Phase delay (usec) -1.04152969693E+03 Apriori clockrate (us/s) 1.5640000E-07 Resid phdelay (usec) -4.46211E-06 +/- 8.0E-08
 Delay rate (us/s) 1.16478742950E-01 Apriori rate (us/s) 1.16478665255E-01 Resid rate (us/s) 7.76948E-08 +/- 3.2E-10
 Total phase (deg) -33.7 Apriori accel (us/s/s) 3.41866956077E-06 Resid phase (deg) -138.4 +/- 2.5

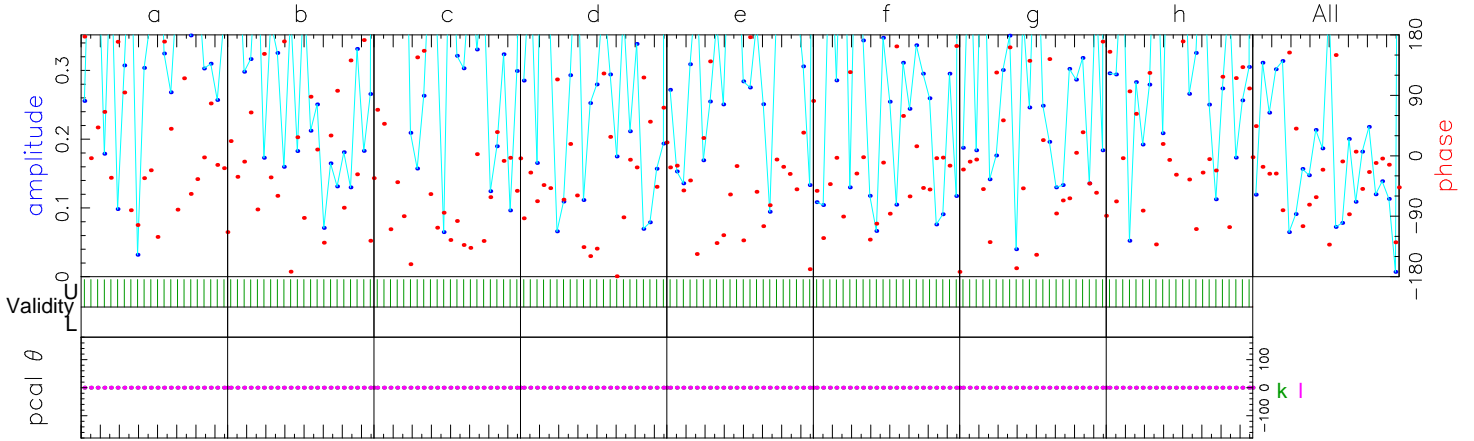
PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 91.6 el 42.9 pa -64.5 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -703.592 -358.639 simultaneous interpolator



Fringe quality 0
SNR 6.7
Int time 439.452
Amp 0.117
Phase -45.1
PFD 5.1e-03
Delays (us)
SBD -0.001897
MBD -0.001036
Fringe rate (Hz) 0.006736
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
2020:197:120822
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
	-21.7	-37.7	-81.6	-46.3	-53.1	-36.1	-41.3	-29.7	Phase	-45.1
	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	352.2	243.1	413.9	472.1	176.7	257.7	208.8	74.0	Sbd box	256.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

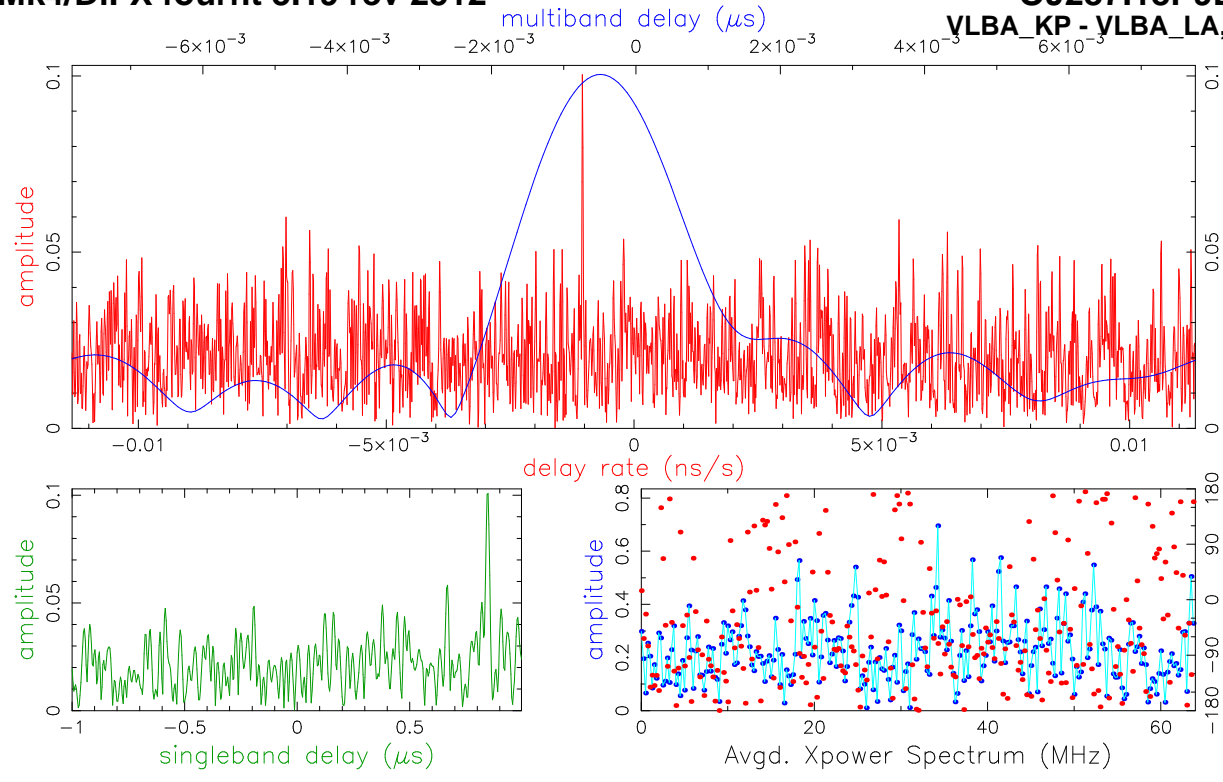
Group delay (usec)(sbd)	-1.04153072859E+03	Apriori delay (usec)	-1.04152969247E+03	Resid mbdelay (usec)	-1.03613E-03	+/-	1.6E-04
Sband delay (usec)	-1.04153158897E+03	Apriori clock (usec)	3.3427088E+00	Resid sbdelay (usec)	-1.89650E-03	+/-	1.3E-03
Phase delay (usec)	-1.04152969392E+03	Apriori clockrate (us/s)	1.5640000E-07	Resid phdelay (usec)	-1.45416E-06	+/-	5.5E-07
Delay rate (us/s)	1.16478743455E-01	Apriori rate (us/s)	1.16478665255E-01	Resid rate (us/s)	7.82000E-08	+/-	2.2E-09
Total phase (deg)	-300.4	Apriori accel (us/s/s)	3.41866956077E-06	Resid phase (deg)	-45.1	+/-	17.0

ph/seg (deg)	67.8	Theor.	40.9	Amplitude	0.117 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	96.6	Search (2048X32)	0.114	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	19.7	Inc. seg. avg.	0.138	Inc. frq. avg.	0.110	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	30.4	Inc. frq. avg.	0.110			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

k: az 91.6 el 42.9 pa -64.5 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -703.592 -358.639 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/kl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/kl.W.136.18P9EC

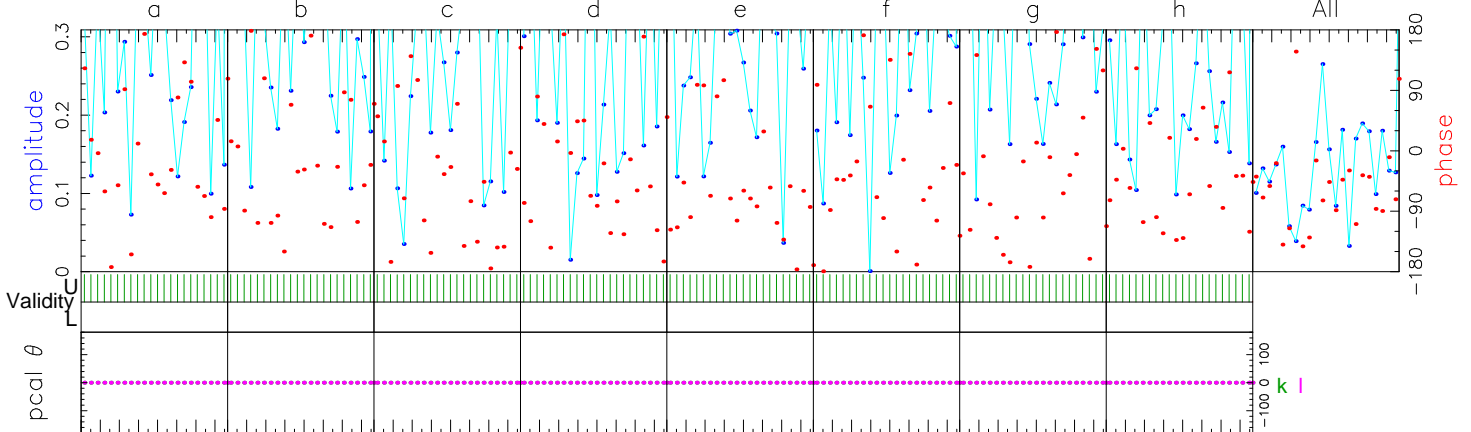
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, kl
VLBA_KP - VLBA_LA, fgroup W, pol RL

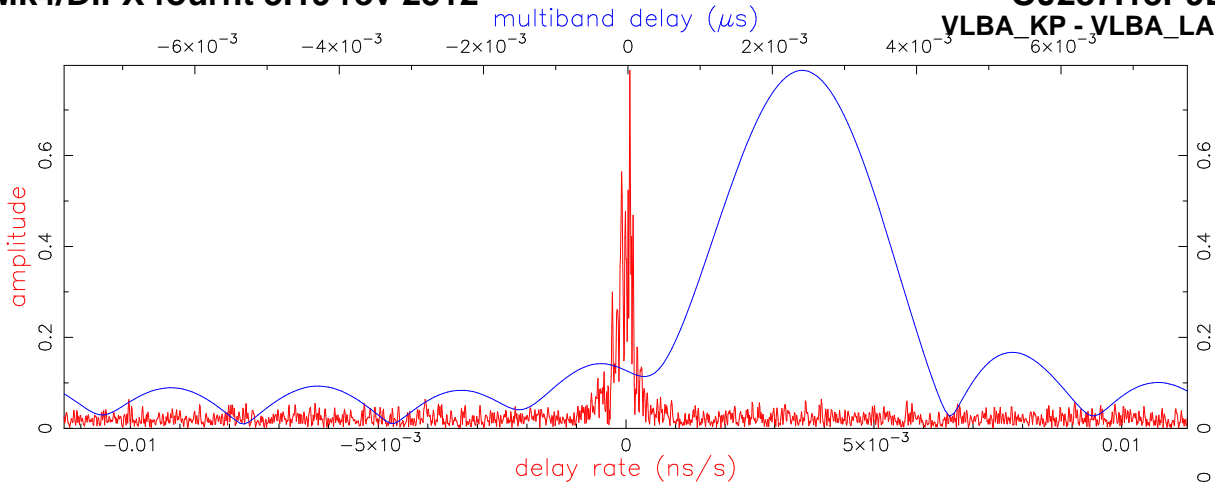


Fringe quality 0
SNR 5.9
Int time 439.453
Amp 0.103
Phase -64.8
PFD 6.4e-01
Delays (us)
SBD 0.845812
MBD -0.000529
Fringe rate (Hz)
-0.089760
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120826
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

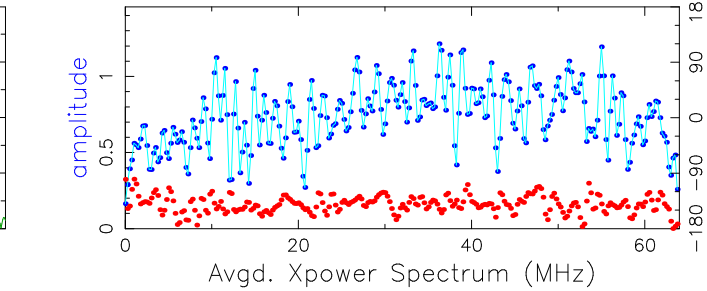
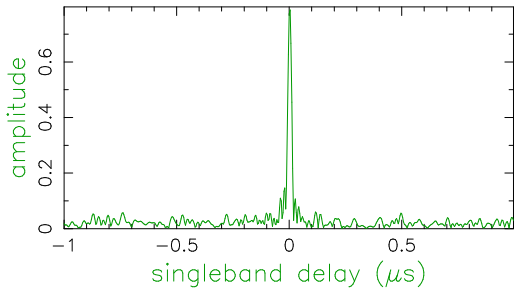


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.04068647119E+03									
Sband delay (usec)	-1.04068387997E+03									
Phase delay (usec)	-1.04152969456E+03									
Delay rate (us/s)	1.16477623234E-01									
Total phase (deg)			-320.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.103 +/- 0.018										
0.097										
0.000										
0.098										
0.093										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										
simultaneous interpolator										



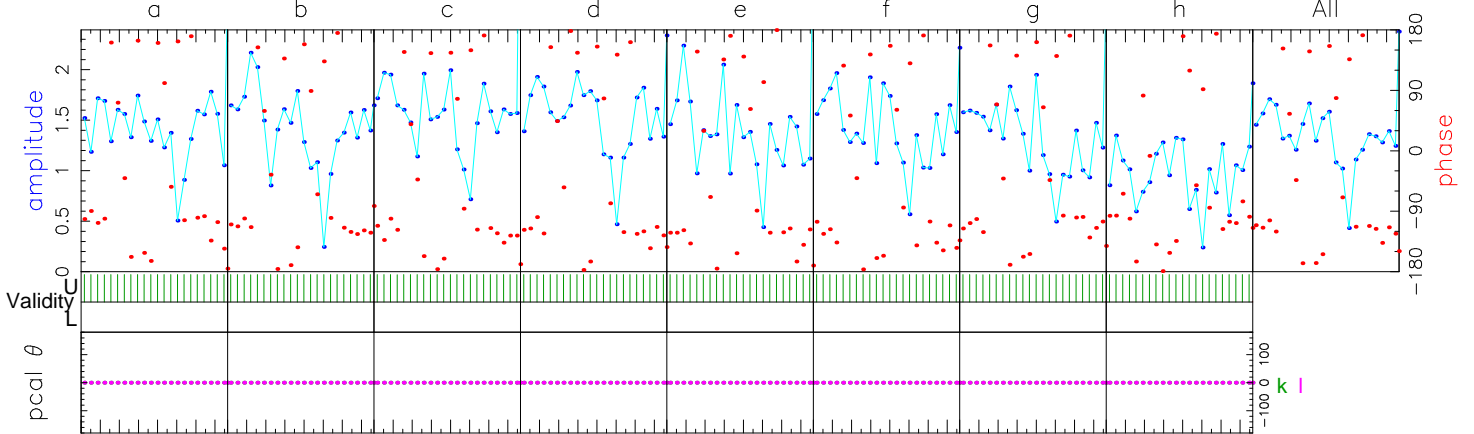
Fringe quality 7

SNR 45.8
Int time 439.453
Amp 0.798
Phase -141.2
PFD 0.0e+00
Delays (us)
SBD 0.002353
MBD 0.002378
Fringe rate (Hz)
0.006741
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
2020:197:120812
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

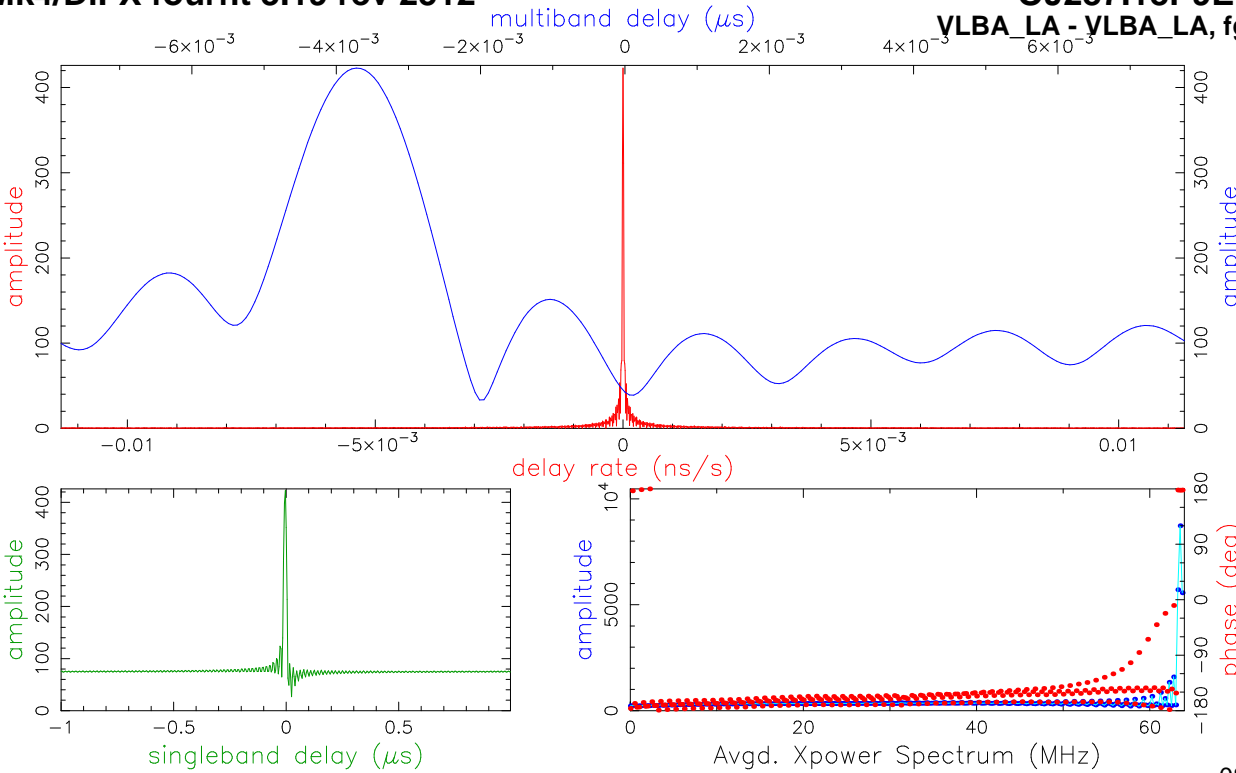


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.04152731463E+03	Apriori delay (usec)	-1.04152969247E+03	Resid mbdelay (usec)	2.37784E-03	+/-	2.4E-05
Sband delay (usec)	-1.04152733997E+03	Apriori clock (usec)	3.3427088E+00	Resid sbdelay (usec)	2.35250E-03	+/-	1.9E-04
Phase delay (usec)	-1.04152969702E+03	Apriori clockrate (us/s)	1.5640000E-07	Resid phdelay (usec)	-4.55360E-06	+/-	8.1E-08
Delay rate (us/s)	1.16478743511E-01	Apriori rate (us/s)	1.16478665255E-01	Resid rate (us/s)	7.82552E-08	+/-	3.2E-10
Total phase (deg)	-36.5	Apriori accel (us/s/s)	3.41866956077E-06	Resid phase (deg)	-141.2	+/-	2.5

ph/seg (deg)	64.7	RMS	64.7	Theor.	6.0	Amplitude	0.798 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	74.9		10.5	Search (2048X32)	0.783	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	11.0		3.5	Inc. seg. avg.	1.324	Inc. frq. avg.	0.795	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	13.7		6.2					Sample rate (MSamp/s):	128		dr window (ns/s)	-0.011 0.011	
								Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

k: az 91.6 el 42.9 pa -64.5 l: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) -703.592 -358.639 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/kl..18P9EC Output file: /Exps/c201a/v1/1234/No0027/kl.W.94.18P9EC

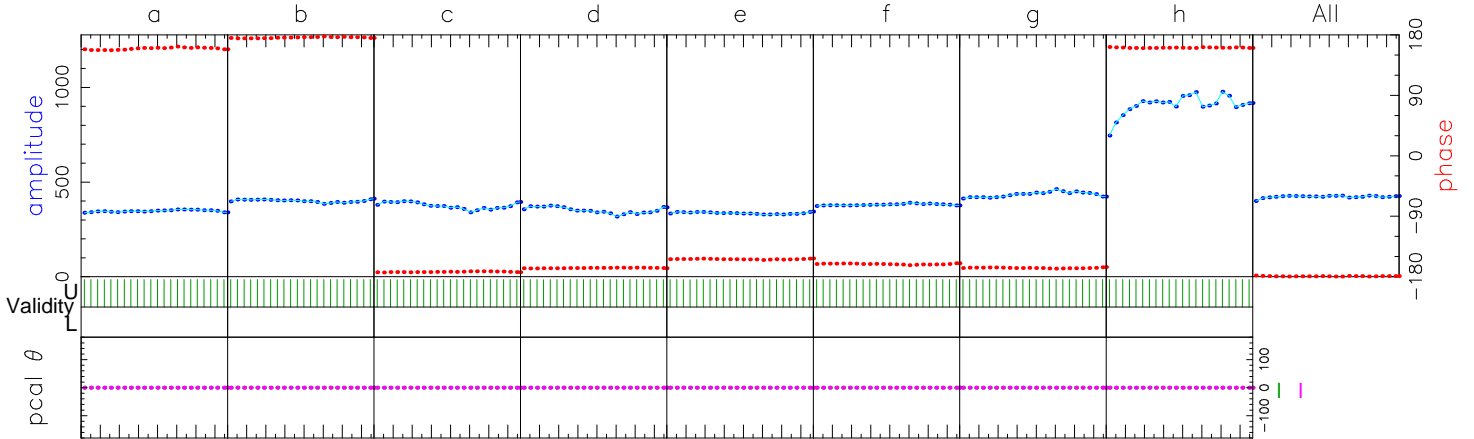


Fringe quality 6

SNR 24420.4
Int time 439.453
Amp 425.990
Phase -179.2
PFD 0.0e+00
Delays (us)
SBD -0.004887
MBD -0.003691
Fringe rate (Hz)
-0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

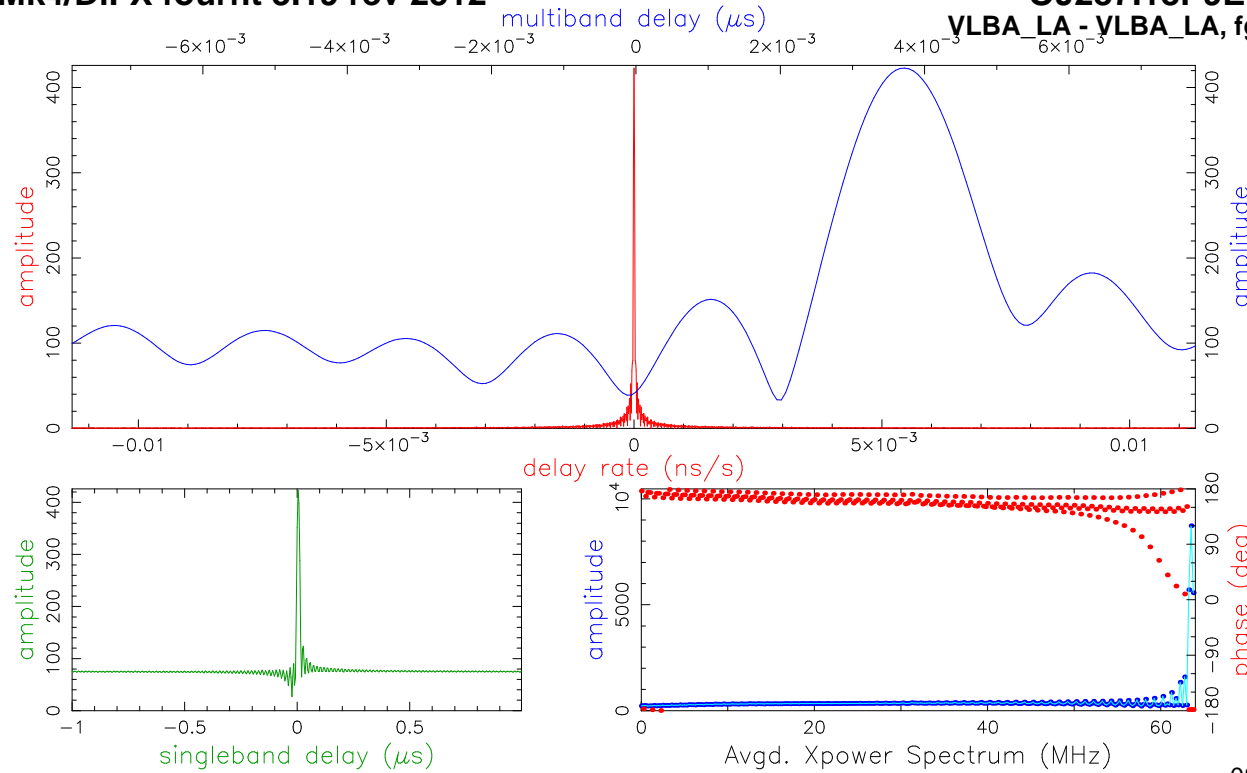
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120821
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



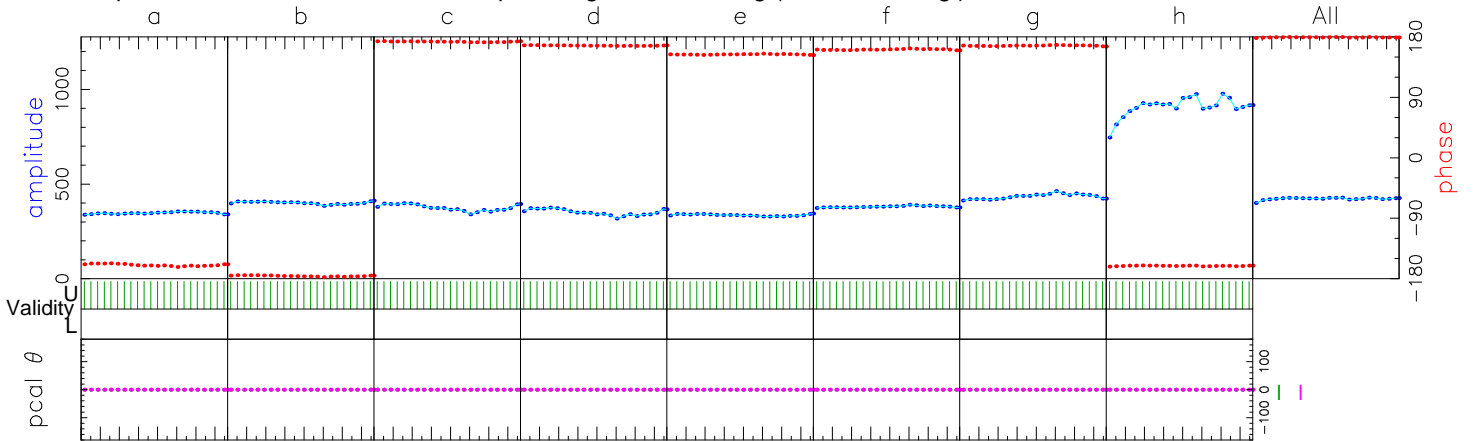
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	441.8
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	255.7
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.690500000000E-03								Resid mbdelay (usec)	-3.69050E-03 +/- 4.4E-08
Sband delay (usec)	-4.887000000000E-03								Resid sbdelay (usec)	-4.88700E-03 +/- 3.5E-07
Phase delay (usec)	-5.77811872257E-06								Resid phdelay (usec)	-5.77812E-06 +/- 1.5E-10
Delay rate (us/s)	-2.83423047834E-12								Resid rate (us/s)	-2.83423E-12 +/- 6.0E-13
Total phase (deg)			-179.2						Resid phase (deg)	-179.2 +/- 0.0

ph/seg (deg) 0.3 0.0 Search (2048X32) 415.329 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.6 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) 19.1 0.0 Inc. seg. avg. 422.852 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.1 0.0 Inc. frq. avg. 441.783 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 98.8 el 47.0 pa -58.5 i: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/II..18P9EC Output file: /Exps/c201a/v1/1234/No0027/II.W.132.18P9EC simultaneous interpolator



Fringe quality 6
 SNR 24420.4
 Int time 439.452
 Amp 425.990
 Phase 179.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.004887
 MBD 0.003691
 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
 2020:197:120825
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

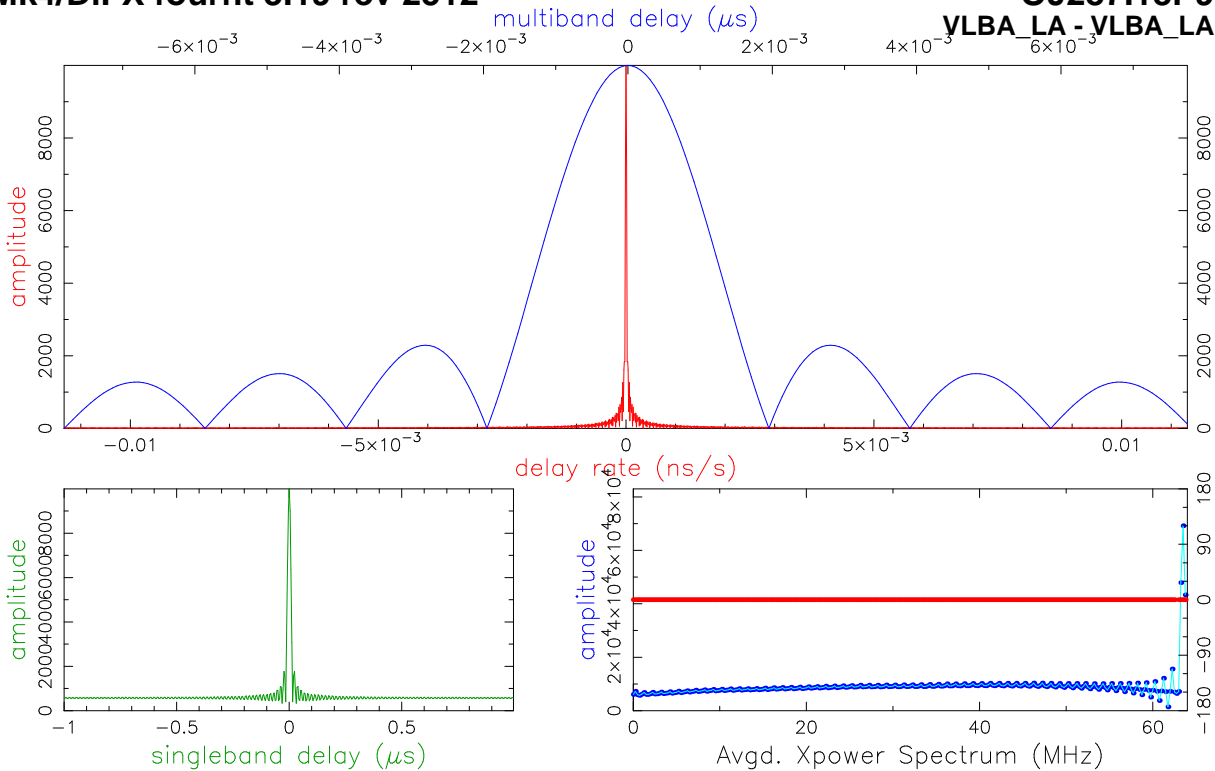
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.690500000000E-03	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	3.69050E-03	+/-	4.4E-08
Sband delay (usec)	4.887000000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	4.88700E-03	+/-	3.5E-07
Phase delay (usec)	5.77811872262E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.77812E-06	+/-	1.5E-10
Delay rate (us/s)	2.83423047834E-12	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	2.83423E-12	+/-	6.0E-13
Total phase (deg)	179.2	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	179.2	+/-	0.0

ph/seg (deg)	0.3	RMS	Theor.	Amplitude	425.990 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	1.6	0.0	0.0	Search (2048X32)	415.329	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	19.1	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	42.1	0.0	0.0	Inc. seg. avg.	422.853	Sample rate(MISamp/s):	128	Resid rate (us/s)	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	441.783	Data rate(Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00 0.00

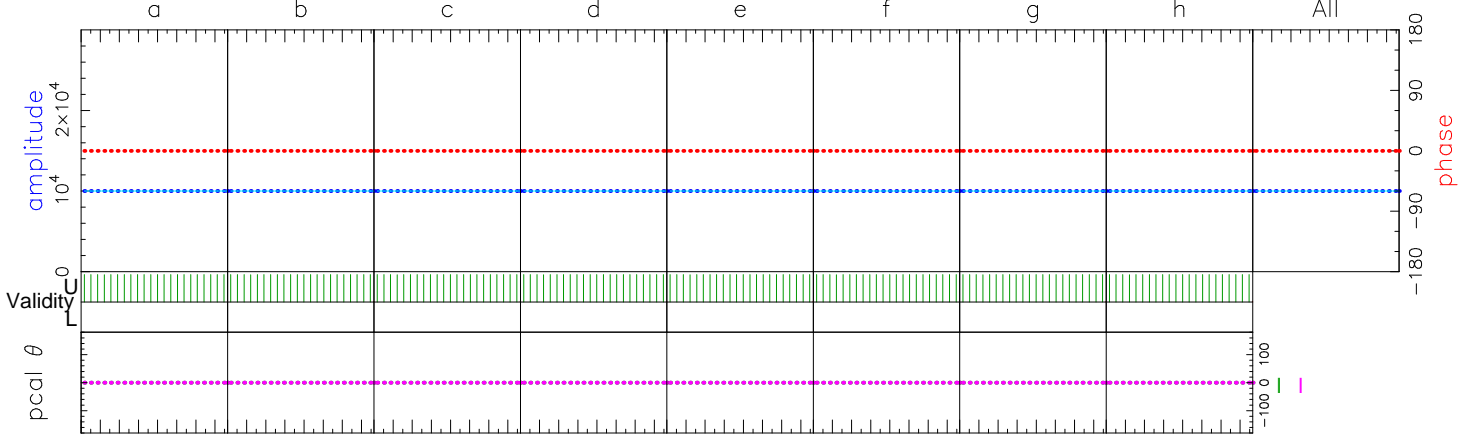


Fringe quality 9

SNR 573262.6
Int time 439.453
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
2020:197:120814
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

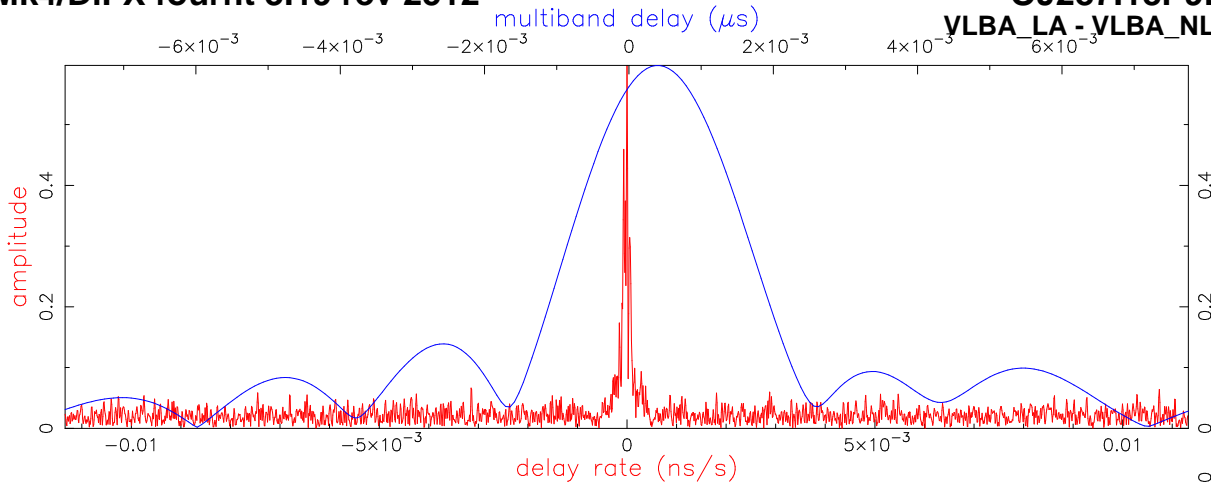
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.5E-08
Phase delay (usec)	2.59913672416E-19	2.59913672416E-19	2.59913672416E-19	2.59913672416E-19	2.59913672416E-19	2.59913672416E-19	2.59913672416E-19	2.59913672416E-19		+/- 6.4E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 2.5E-14
Total phase (deg)			0.0							+/- 0.0

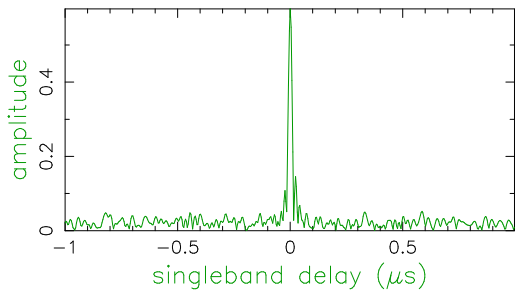
RMS Theor. Amplitude 9999.999 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 98.8 el 47.0 pa -58.5 i: az 98.8 el 47.0 pa -58.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/II..18P9EC Output file: /Exps/c201a/v1/1234/No0027/II.W.97.18P9EC

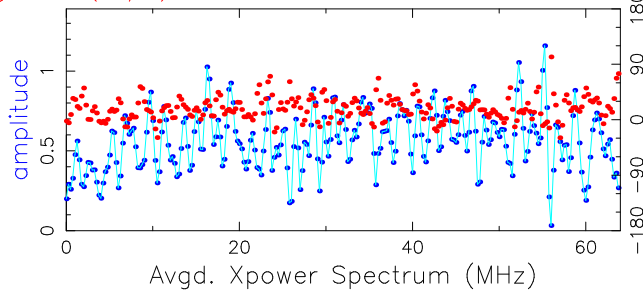


Fringe quality 6

SNR 34.2
 Int time 438.929
 Amp 0.597
 Phase 14.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.000208
 MBD 0.000404
 Fringe rate (Hz)
 -0.000217
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

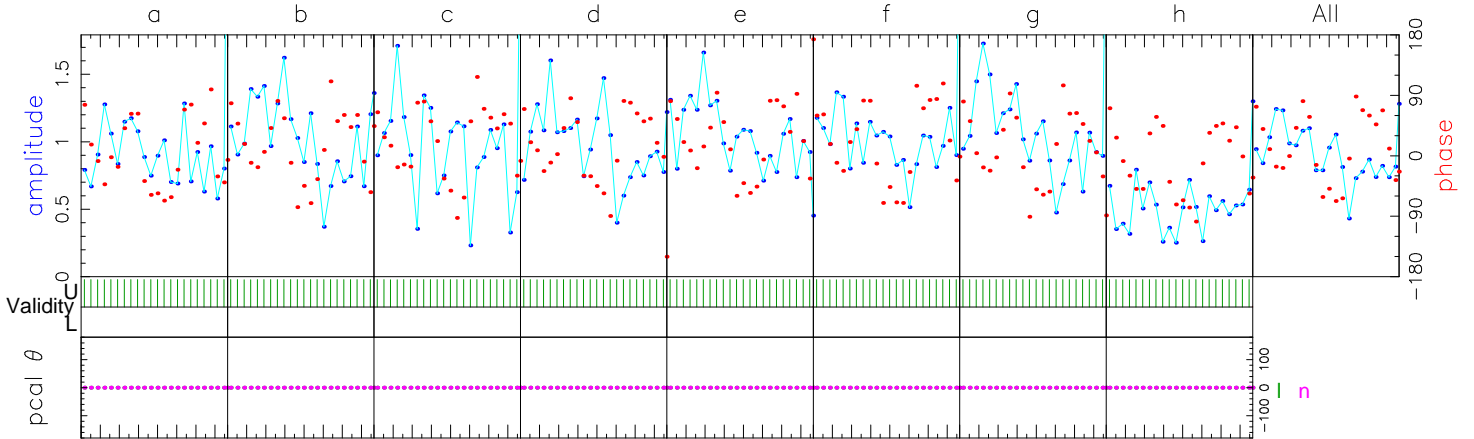


delay rate (ns/s)



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120817
 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



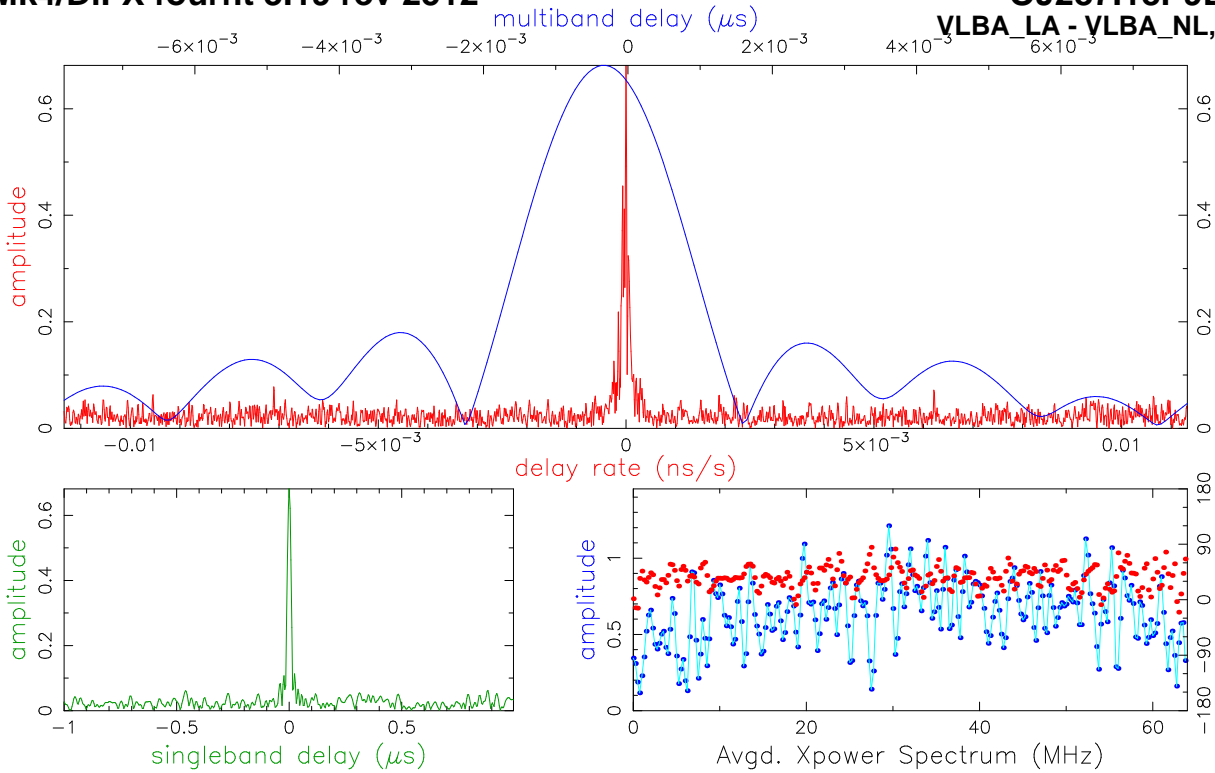
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.00659621228E+03	Apriori delay (usec)	-2.00659661603E+03	Resid mbdelay (usec)	4.03750E-04	+/-	3.2E-05
Sband delay (usec)	-2.00659640778E+03	Apriori clock (usec)	-3.5937401E+01	Resid sbdelay (usec)	2.08250E-04	+/-	2.5E-04
Phase delay (usec)	-2.00659661555E+03	Apriori clockrate (us/s)	-4.8500001E-07	Resid phdelay (usec)	4.76944E-07	+/-	1.1E-07
Delay rate (us/s)	2.88260217911E-01	Apriori rate (us/s)	2.88260220428E-01	Resid rate (us/s)	-2.51680E-09	+/-	4.3E-10
Total phase (deg)	-167.0	Apriori accel (us/s/s)	7.33341805895E-06	Resid phase (deg)	14.8	+/-	3.3

ph/seg (deg)	49.4	RMS	49.4	Theor.	8.0	Amplitude	0.597 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	58.9		58.9		14.0	Search (2048X32)	0.586	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	10.2		10.2		4.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	20.2		20.2		8.3	Inc. seg. avg.	0.890	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	0.601	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

l: az 98.8 el 47.0 pa -58.5 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1743.808 -457.949 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/In..18P9EC Output file: /Exps/c201a/v1/1234/No0027/In.W.113.18P9EC

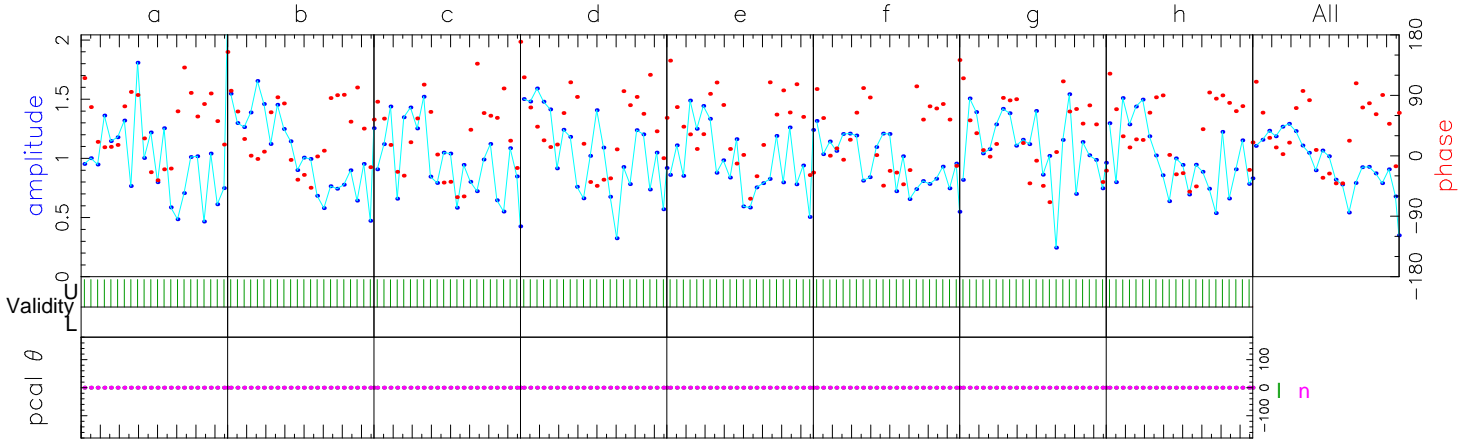


Fringe quality 7

SNR 39.0
 Int time 438.929
 Amp 0.681
 Phase 39.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.000039
 MBD -0.000336
 Fringe rate (Hz)
 -0.000164
 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
 2020:197:120821
 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

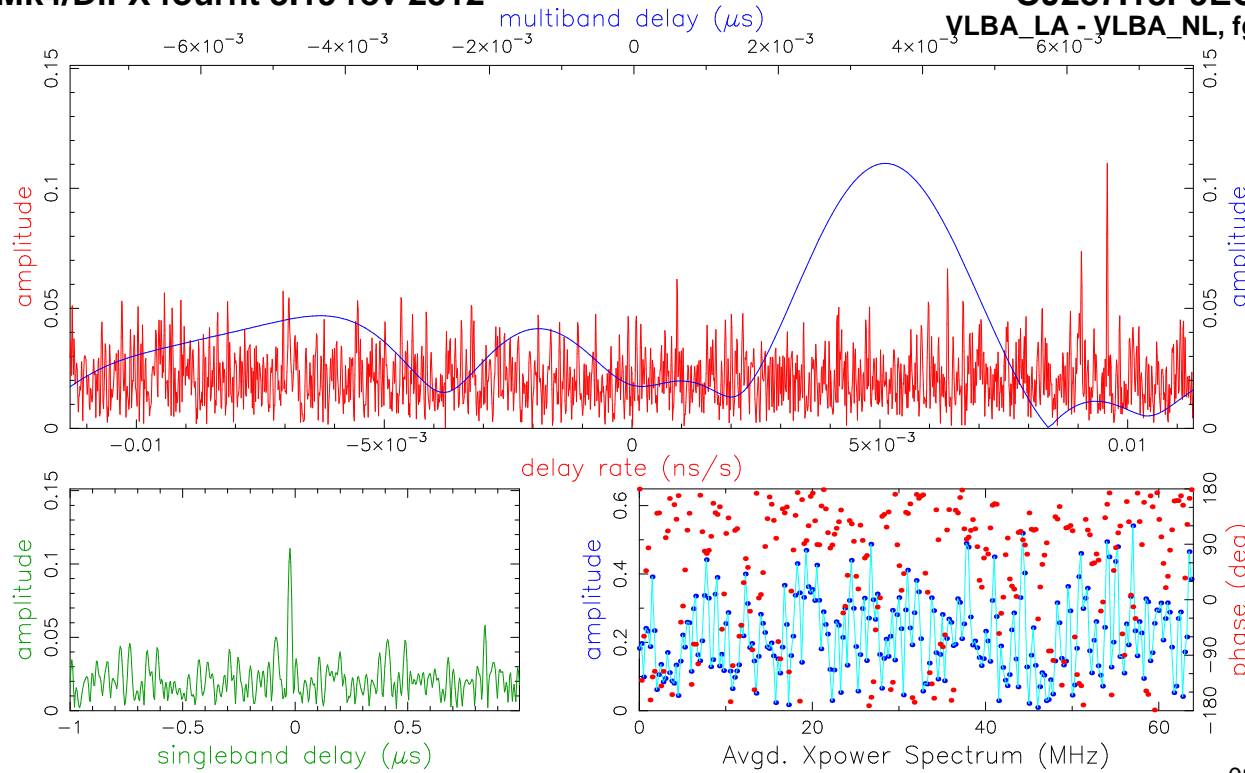


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.00659695187E+03		Apriori delay (usec)		-2.00659661603E+03		Resid mbdelay (usec)		-3.35844E-04	+/- 2.8E-05
Sband delay (usec)	-2.00659665528E+03		Apriori clock (usec)		-3.5937401E+01		Resid sbdelay (usec)		-3.92500E-05	+/- 2.2E-04
Phase delay (usec)	-2.00659661476E+03		Apriori clockrate (us/s)		-4.8500001E-07		Resid phdelay (usec)		1.27373E-06	+/- 9.5E-08
Delay rate (us/s)	2.88260218525E-01		Apriori rate (us/s)		2.88260220428E-01		Resid rate (us/s)		-1.90319E-09	+/- 3.7E-10
Total phase (deg)			Apriori accel (us/s/s)		7.33341805895E-06		Resid phase (deg)		39.5	+/- 2.9

	RMS	Theor.	Amplitude	0.681 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	48.4	7.0	Search (2048X32)	0.669	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	53.2	12.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	8.7	4.2	Inc. seg. avg.	0.976	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	5.1	7.2	Inc. frq. avg.	0.685	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 98.8 el 47.0 pa -58.5 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1743.808 -457.949 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/ln..18P9EC Output file: /Exps/c201a/v1/1234/No0027/ln.W.133.18P9EC

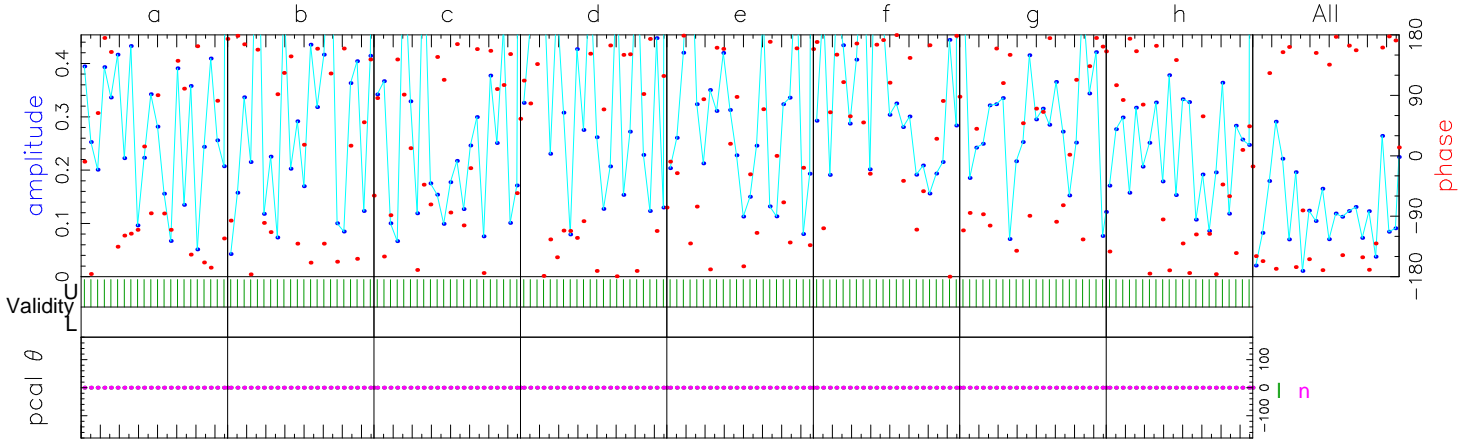


Fringe quality 0

SNR 6.3
 Int time 438.929
 Amp 0.151
 Phase 176.0
 PFD 6.6e-02
 Delays (us)
 SBD -0.023528
 MBD 0.003483
 Fringe rate (Hz) 0.826959
 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
 2020:197:120825
 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

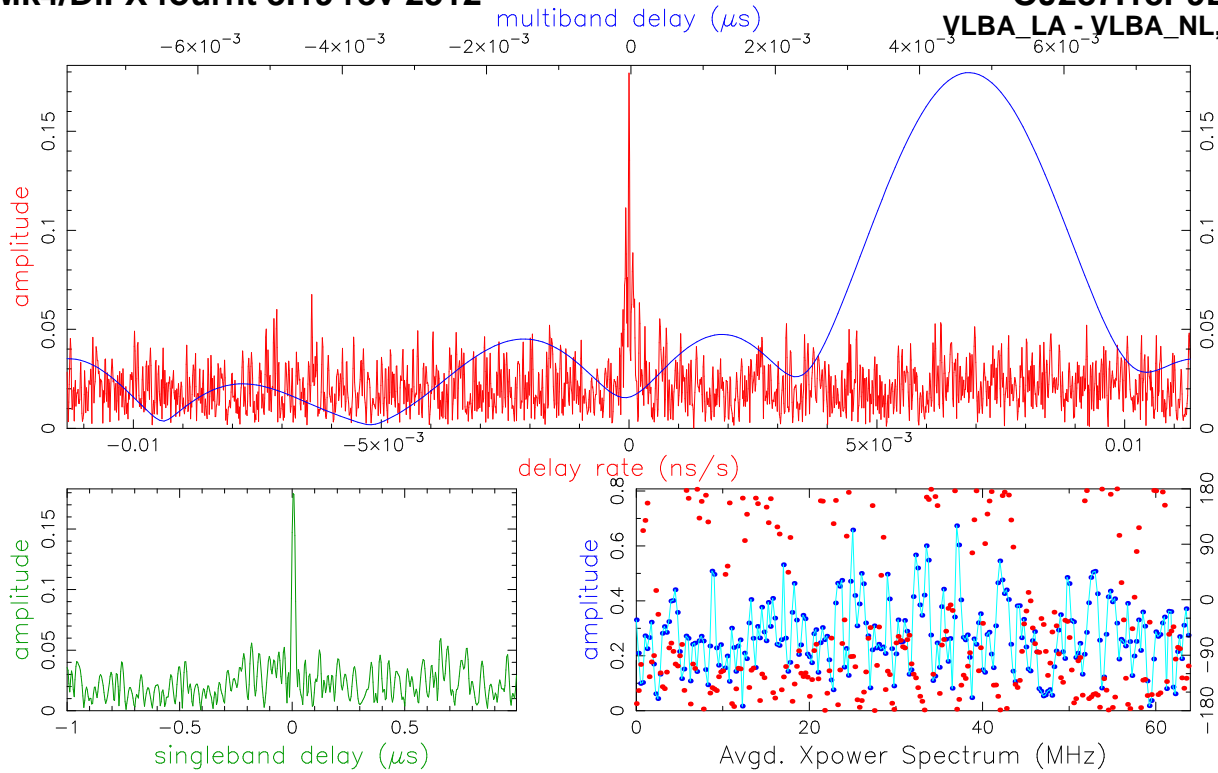


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.00662438305E+03									
Sband delay (usec)	-2.00662014403E+03									
Phase delay (usec)	-2.00659661036E+03									
Delay rate (us/s)	2.88269820605E-01									
Total phase (deg)			-5.8							
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)									176.0	+/- 18.1
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 34.9 43.4 Search (2048X32) 0.108 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.3 75.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.3 25.6 Inc. seg. avg. 0.130 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.8 44.7 Inc. frq. avg. 0.148 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 98.8 el 47.0 pa -58.5 n: az 120.0 el 55.9 pa -43.5 u,v (fr/asec) -1743.808 -457.949 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/In..18P9EC Output file: /Exps/c201a/v1/1234/No0027/In.W.151.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, In VLBA_LA - VLBA_NL, fgroup W, pol RL

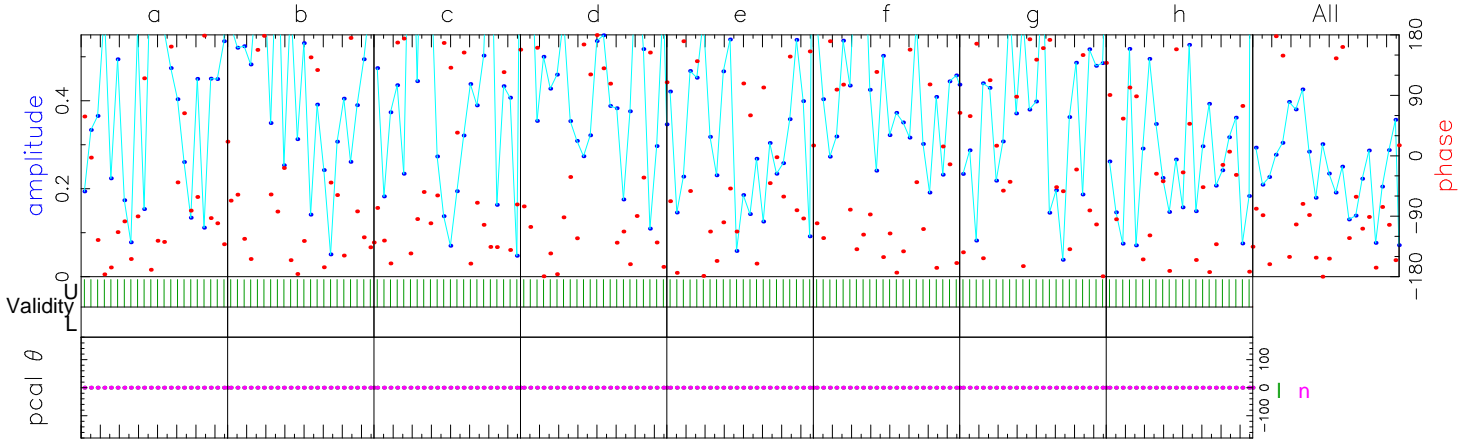


Fringe quality 9

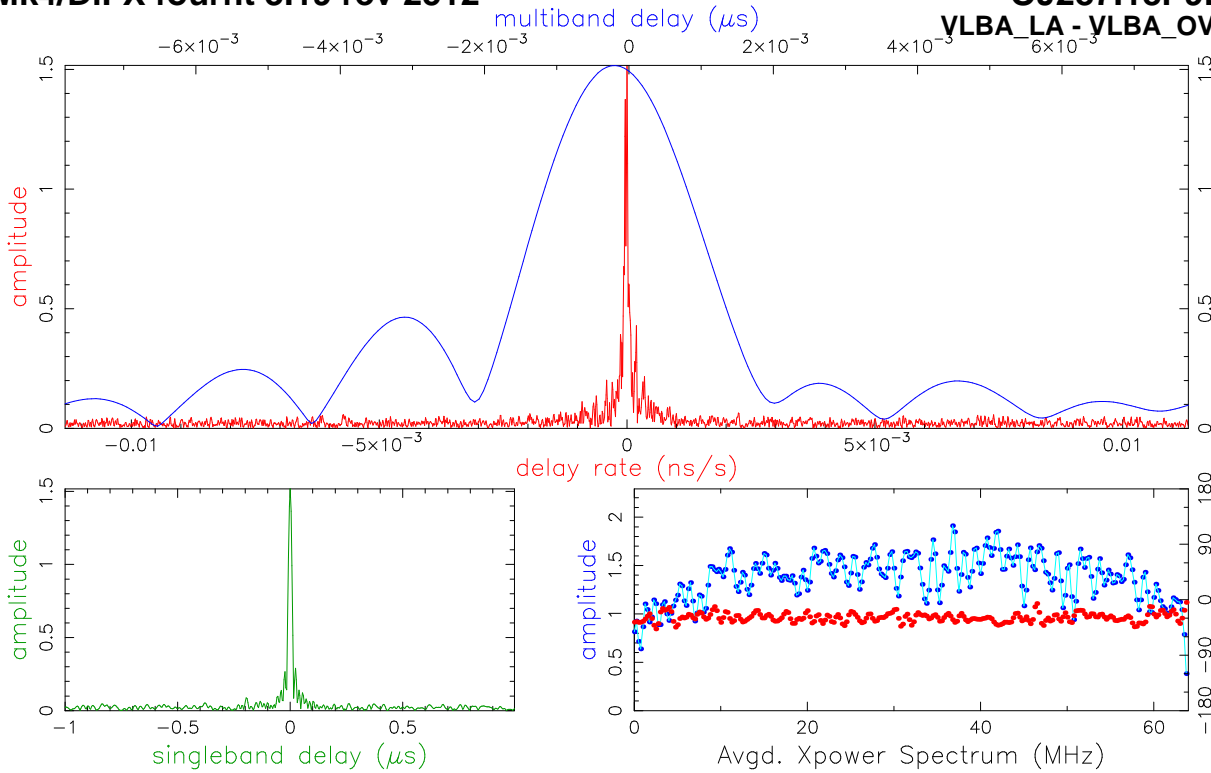
SNR 10.5
 Int time 438.929
 Amp 0.183
 Phase -129.6
 PFD 3.9e-17
 Delays (us)
 SBD 0.005749
 MBD 0.004753
 Fringe rate (Hz) -0.000103
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120829
 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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.00659186284E+03									
Sband delay (usec)	-2.00659086703E+03									
Phase delay (usec)	-2.00659662021E+03									
Delay rate (us/s)	2.88260219228E-01									
Total phase (deg)			-311.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

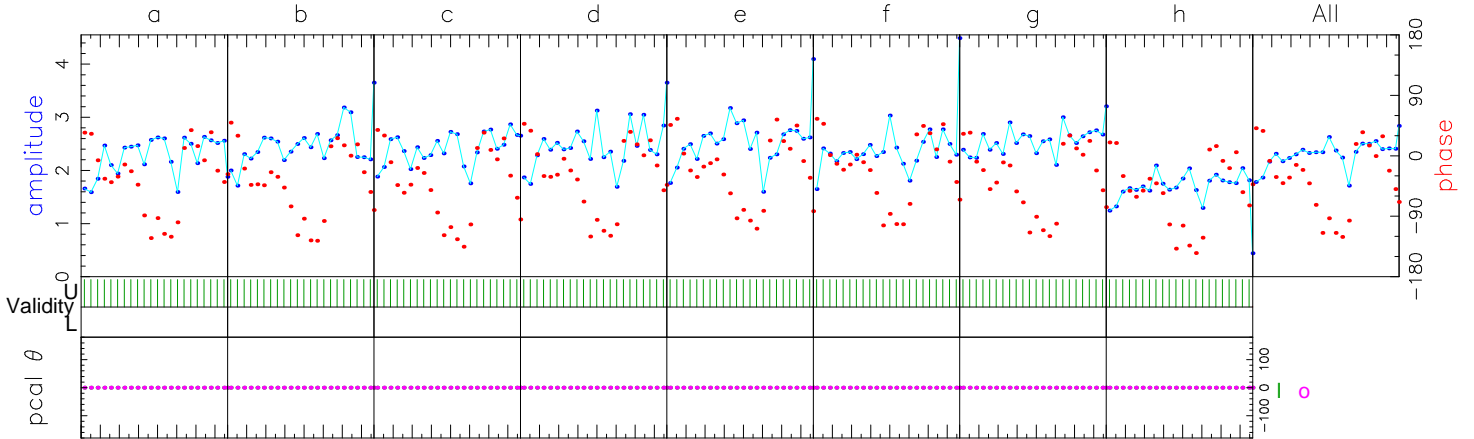


Fringe quality 4

SNR 87.0
Int time 439.432
Amp 1.517
Phase -29.3
PFD 0.0e+00
Delays (us)
SBD -0.000244
MBD -0.000205
Fringe rate (Hz)
-0.000441
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
2020:197:120827
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



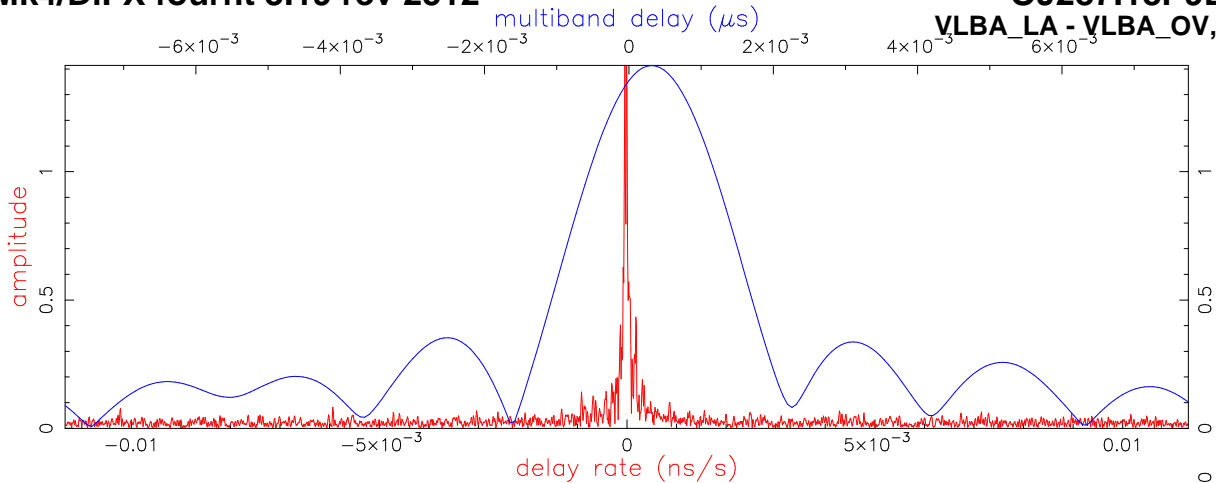
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.62781508265E+03	Apriori delay (usec)	2.62781528777E+03	Resid mbdelay (usec)	-2.05125E-04	+/-	1.2E-05
Sband delay (usec)	2.62781504377E+03	Apriori clock (usec)	-2.3753098E+01	Resid sbdelay (usec)	-2.44000E-04	+/-	9.9E-05
Phase delay (usec)	2.62781528683E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-9.46179E-07	+/-	4.2E-08
Delay rate (us/s)	-1.38848439375E-01	Apriori rate (us/s)	-1.38848434252E-01	Resid rate (us/s)	-5.12287E-09	+/-	1.7E-10
Total phase (deg)	290.6	Apriori accel (us/s/s)	-1.48863493385E-05	Resid phase (deg)	-29.3	+/-	1.3

ph/seg (deg)	50.8	RMS	3.2	Theor.	1.517 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	53.0	Search (2048X32)	1.397	Amplitude	1.517 +/- 0.017	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	12.1	Interp.	0.000	Search	1.397	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.7	Inc. seg. avg.	2.285	Inc. seg. avg.	2.285	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	1.538	Inc. frq. avg.	1.538	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

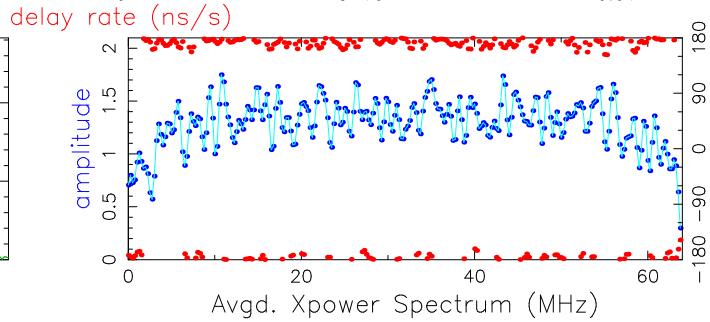
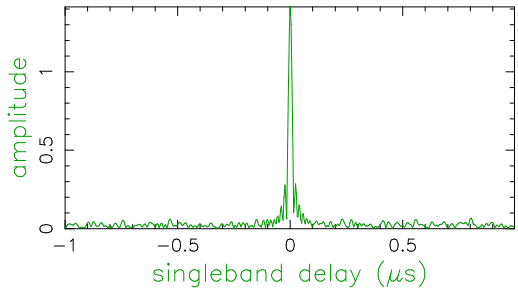
l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.157.18P9EC



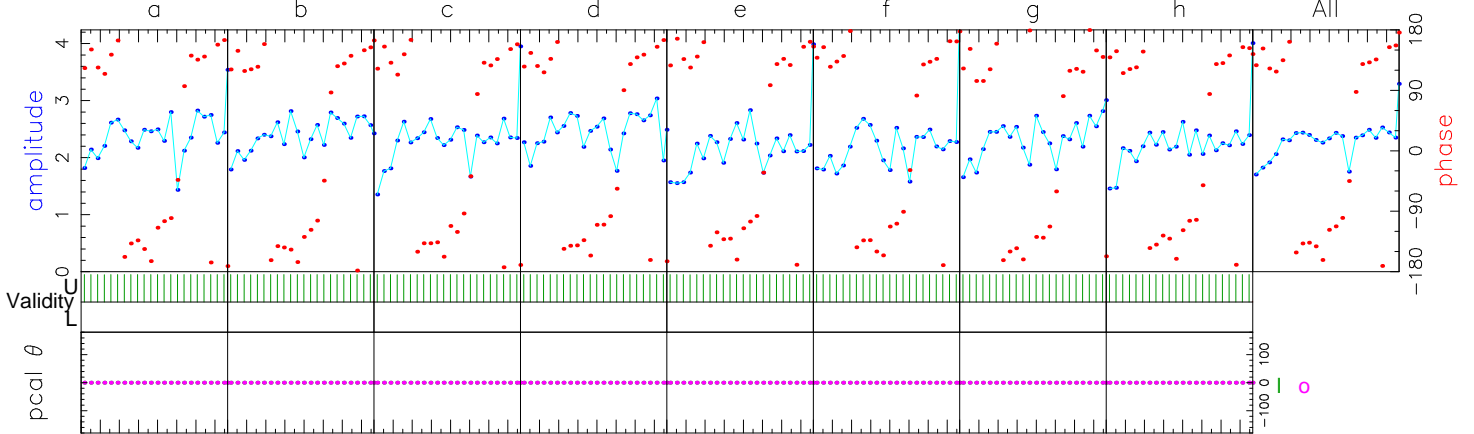
Fringe quality 5

SNR 81.1
Int time 439.432
Amp 1.414
Phase 174.7
PFD 0.0e+00
Delays (us)
SBD 0.000263
MBD 0.000321
Fringe rate (Hz)
-0.003643
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



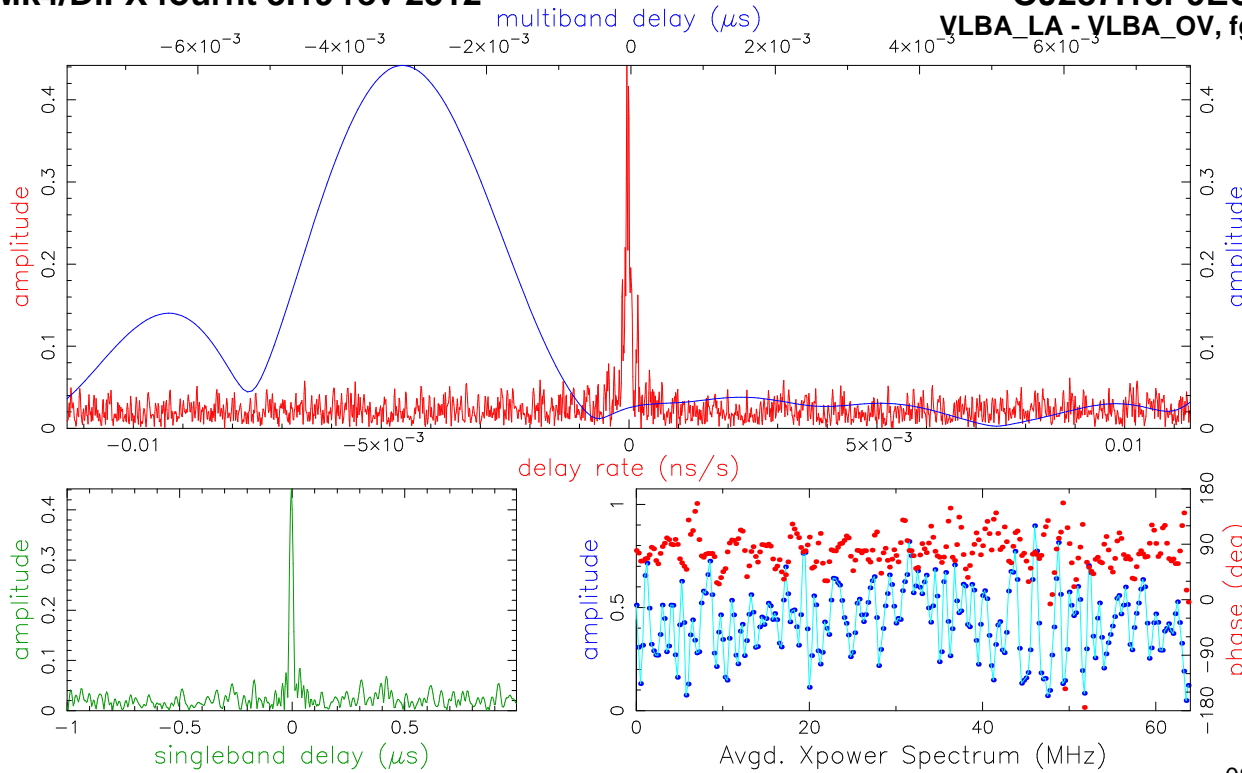
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120832
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.62781560864E+03				2.62781528777E+03				Resid mbdelay (usec)	3.20862E-04 +/- 1.3E-05
Sband delay (usec)	2.62781555077E+03				-2.3753098E+01				Resid sbdelay (usec)	2.63000E-04 +/- 1.1E-04
Phase delay (usec)	2.62781529341E+03				-3.5200000E-07				Resid phdelay (usec)	5.63487E-06 +/- 4.6E-08
Delay rate (us/s)	-1.38848476544E-01				-1.38848434252E-01				Resid rate (us/s)	-4.22924E-08 +/- 1.8E-10
Total phase (deg)		134.7			-1.48863493385E-05				Resid phase (deg)	174.7 +/- 1.4
	RMS	Theor.	Amplitude	1.414 +/- 0.017					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.2	3.4	Search (2048X32)	1.379					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	62.5	5.9	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	6.2	2.0	Inc. seg. avg.	2.261					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	7.8	3.5	Inc. frq. avg.	1.419					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.169.18P9EC

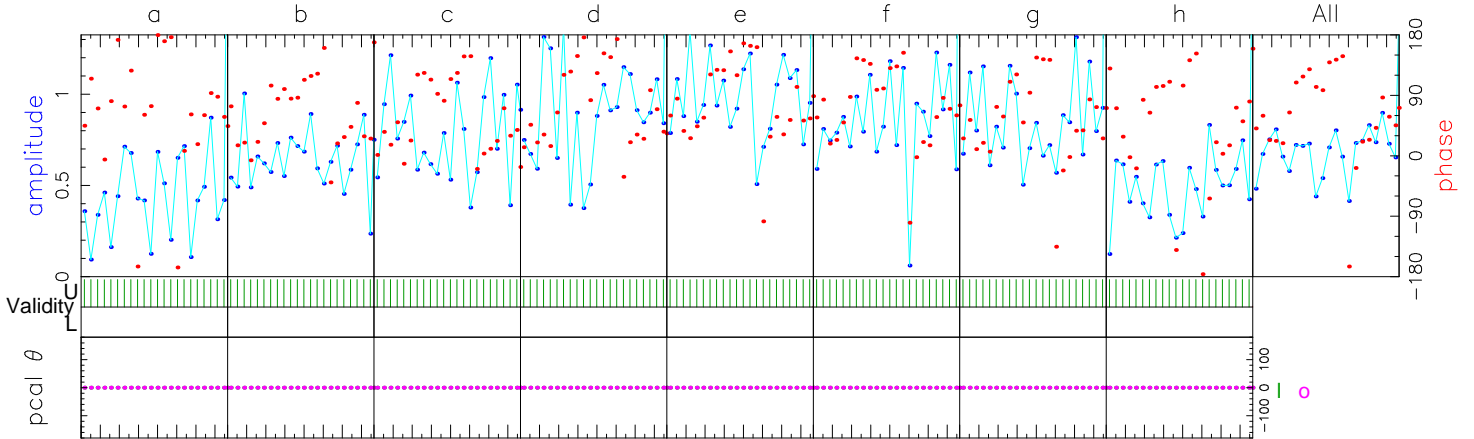


Fringe quality 7

SNR 25.3
Int time 439.432
Amp 0.442
Phase 70.2
PFD 0.0e+00
Delays (us)
SBD -0.003931
MBD -0.003167
Fringe rate (Hz)
-0.003583
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
2020:197:120837
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

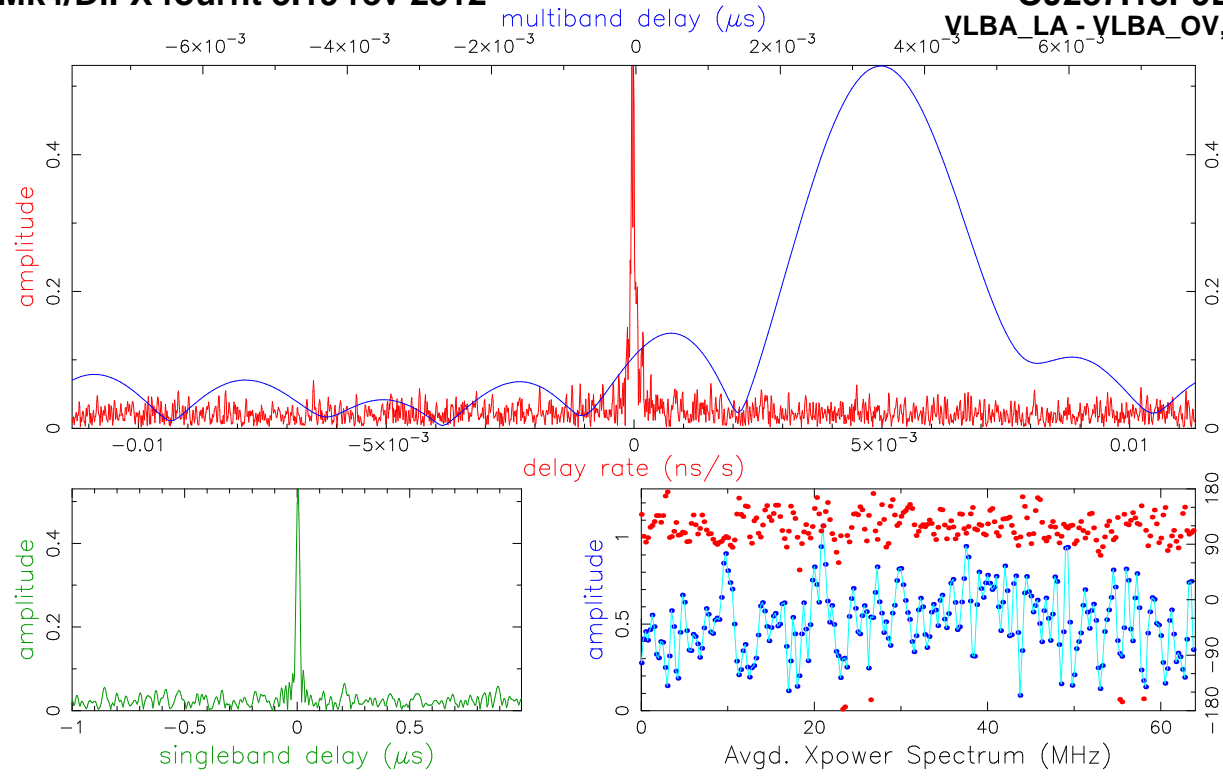
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.62781212114E+03					2.62781528777E+03			Resid mbdelay (usec)	-3.16664E-03 +/- 4.3E-05
Sband delay (usec)	2.62781135652E+03					-2.3753098E+01			Resid sbdelay (usec)	-3.93125E-03 +/- 3.4E-04
Phase delay (usec)	2.62781529004E+03					-3.5200000E-07			Resid phdelay (usec)	2.26266E-06 +/- 1.5E-07
Delay rate (us/s)	-1.38848475844E-01					-1.38848434252E-01			Resid rate (us/s)	-4.15923E-08 +/- 5.7E-10
Total phase (deg)			30.1			-1.48863493385E-05			Resid phase (deg)	70.2 +/- 4.5
	RMS	Theor.	Amplitude	0.442 +/- 0.017		PCal mode: MANUAL, MANUAL			PC period (AP's) 5, 5	
ph/seg (deg)	53.5	10.8	Search (2048X32)	0.424		PCal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000
amp/seg (%)	61.5	18.9	Interp.	0.000		Bits/sample: 2x2			mb window (us)	-0.008 0.008
ph/frq (deg)	16.0	6.4	Inc. seg. avg.	0.671		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011
amp/frq (%)	31.1	11.2	Inc. frq. avg.	0.451		Data rate(Mb/s): 2048			ion window (TEC)	0.00 0.00

l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.192.18P9EC

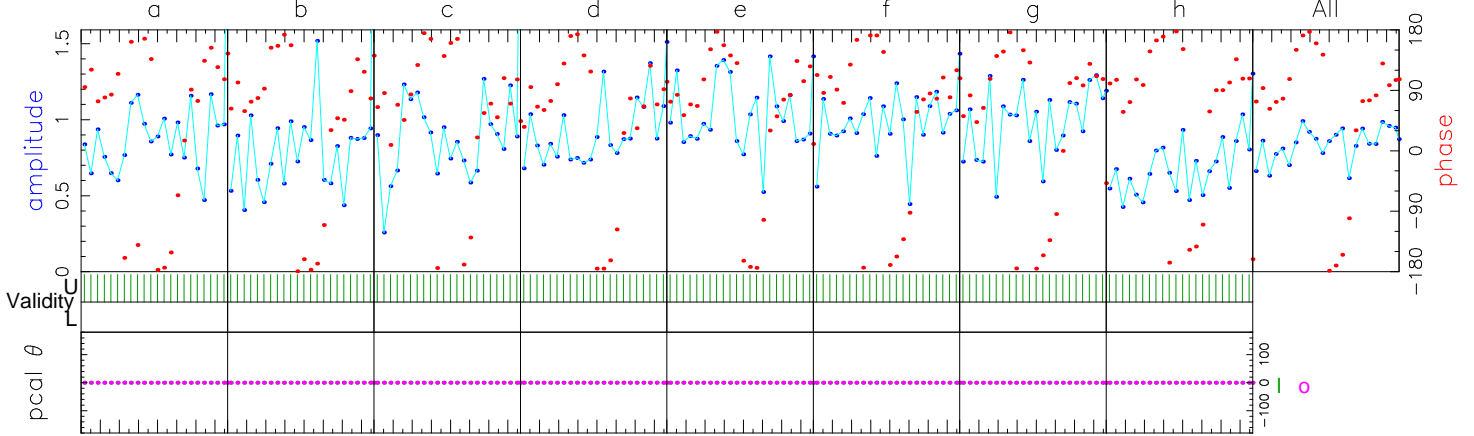


Fringe quality 6

SNR 30.4
Int time 439.432
Amp 0.530
Phase 120.2
PFD 0.0e+00
Delays (us)
SBD 0.003368
MBD 0.003376
Fringe rate (Hz)
-0.003597
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
2020:197:120842
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

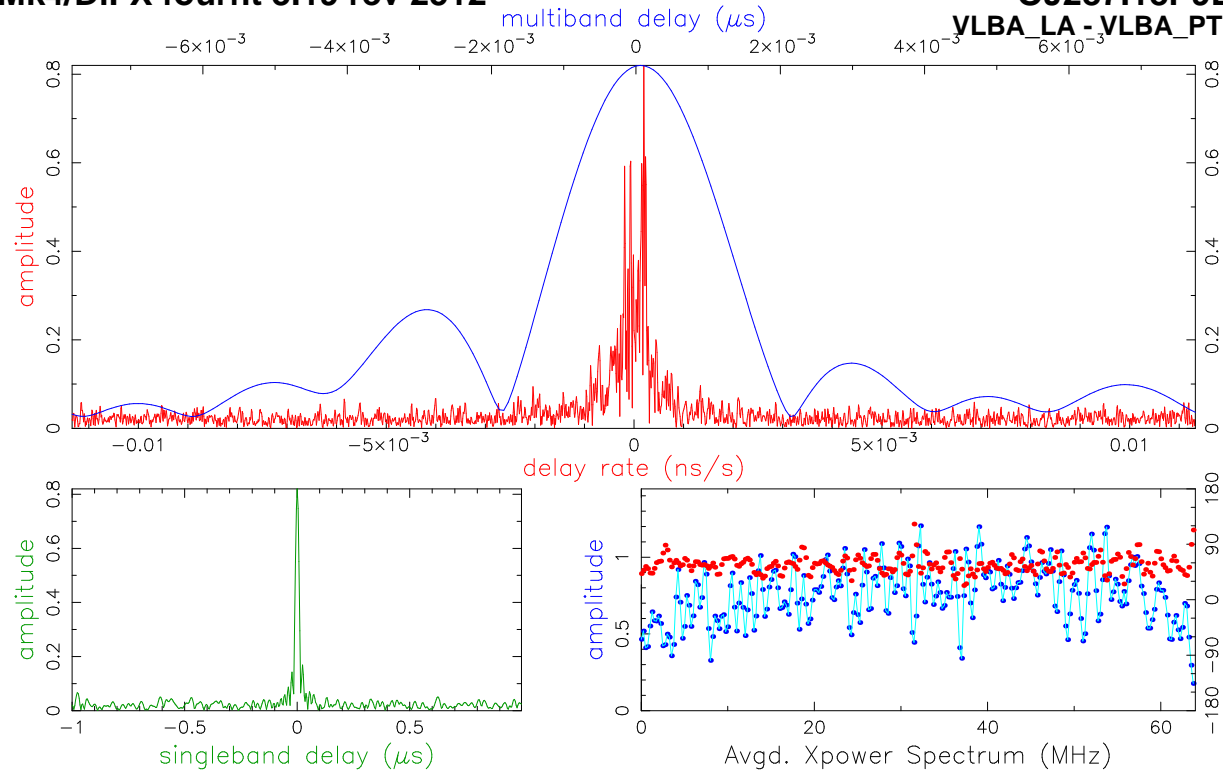


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	136.4	126.6	101.4	106.4	113.9	124.6	126.2	128.3		
Sband delay (usec)	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5		
Phase delay (usec)	257.6	257.7	257.7	258.1	258.1	258.3	257.7	257.7		
Delay rate (us/s)										
Total phase (deg)			80.2							
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										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 56.0 9.0 Search (2048X32) 0.519 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 62.2 15.8 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 13.0 5.3 Inc. seg. avg. 0.832 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 12.5 9.3 Inc. frq. avg. 0.537 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 98.8 el 47.0 pa -58.5 o: az 92.1 el 37.2 pa -57.9 u,v (fr/asec) 821.843 -600.453 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lo..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lo.W.210.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, lp
VLBA_LA - VLBA_PT, fgroup W, pol LL

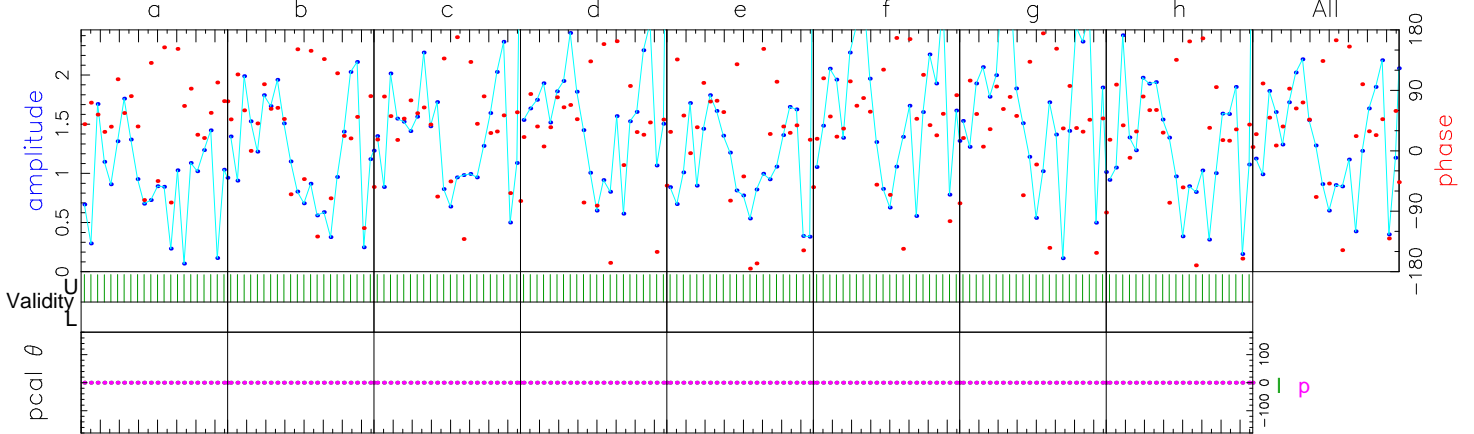


Fringe quality 7

SNR 46.9
Int time 438.422
Amp 0.820
Phase 55.8
PFD 0.0e+00
Delays (us)
SBD 0.000030
MBD 0.000066
Fringe rate (Hz)
0.017257
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
2020:197:120828
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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

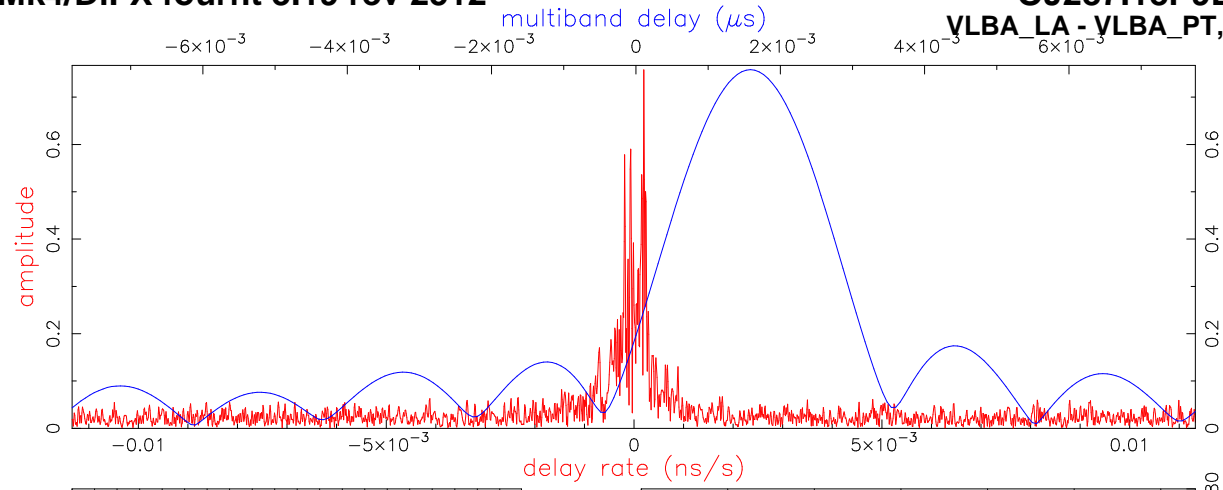
Group delay (usec)(sbd) 3.07945911020E+02 Apriori delay (usec) 3.07945845323E+02 Resid mbdelay (usec) 6.56972E-05 +/- 2.3E-05
 Sband delay (usec) 3.07945875323E+02 Apriori clock (usec) -2.0945147E+01 Resid sbdelay (usec) 3.00000E-05 +/- 1.8E-04
 Phase delay (usec) 3.07945847122E+02 Apriori clockrate (us/s) -3.5488658E-07 Resid phdelay (usec) 1.79960E-06 +/- 7.9E-08
 Delay rate (us/s) -4.27294098730E-02 Apriori rate (us/s) -4.27296102050E-02 Resid rate (us/s) 2.00332E-07 +/- 3.1E-10
 Total phase (deg) 97.6 Apriori accel (us/s/s) -9.36481818295E-07 Resid phase (deg) 55.8 +/- 2.4

RMS Theor. Amplitude 0.820 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 74.2 5.9 Search (2048X32) 0.812 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 87.3 10.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 7.1 3.5 Inc. seg. avg. 1.308 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 18.3 6.0 Inc. frq. avg. 0.824 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 98.8 el 47.0 pa -58.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 258.626 146.758 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lp.W.158.18P9EC

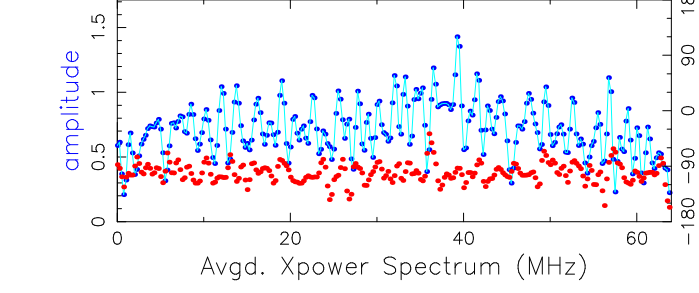
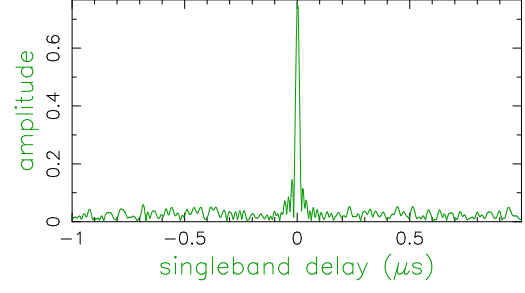
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, lp
VLBA_LA - VLBA_PT, fgroup W, pol RR



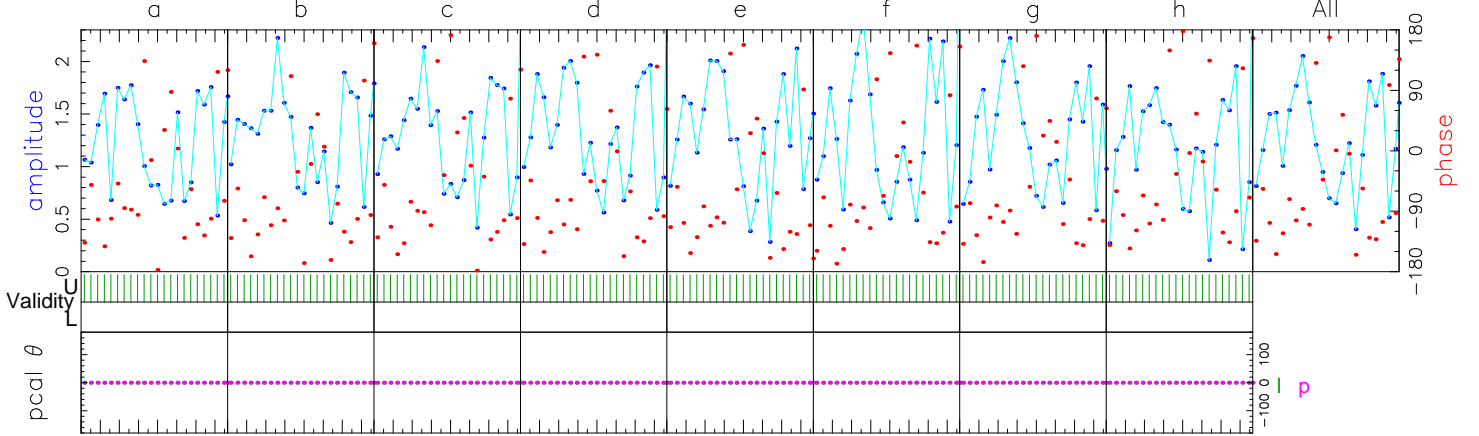
Fringe quality 7

SNR 43.9
Int time 438.423
Amp 0.767
Phase -102.4
PFD 0.0e+00
Delays (us)
SBD 0.001432
MBD 0.001621
Fringe rate (Hz)
0.017230
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
2020:197:120833
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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

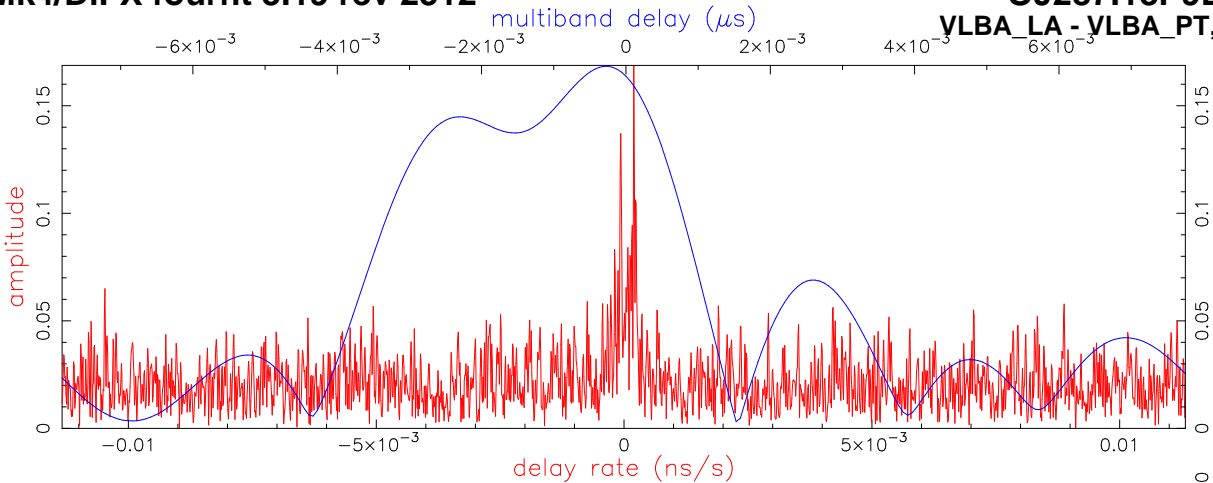
Group delay (usec)(sbd) 3.07947466051E+02 Apriori delay (usec) 3.07945845323E+02 Resid mbdelay (usec) 1.62073E-03 +/- 2.5E-05
 Sband delay (usec) 3.07947277323E+02 Apriori clock (usec) -2.0945147E+01 Resid sbdelay (usec) 1.43200E-03 +/- 2.0E-04
 Phase delay (usec) 3.07945842019E+02 Apriori clockrate (us/s) -3.5488658E-07 Resid phdelay (usec) -3.30373E-06 +/- 8.4E-08
 Delay rate (us/s) -4.27294101806E-02 Apriori rate (us/s) -4.27296102050E-02 Resid rate (us/s) 2.00024E-07 +/- 3.3E-10
 Total phase (deg) -60.7 Apriori accel (us/s/s) -9.36481818295E-07 Resid phase (deg) -102.4 +/- 2.6

RMS Theor. Amplitude 0.767 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 71.3 6.3 Search (2048X32) 0.750 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 84.4 10.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 6.3 3.7 Inc. seg. avg. 1.225 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 5.2 6.4 Inc. frq. avg. 0.760 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

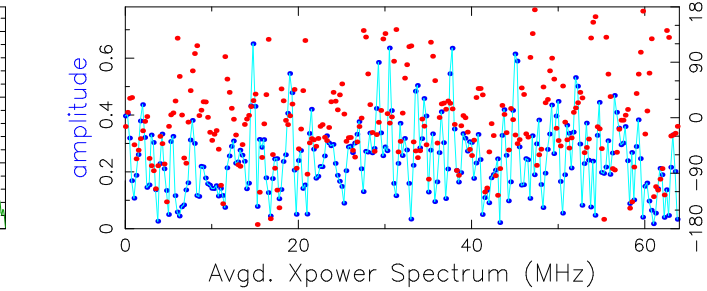
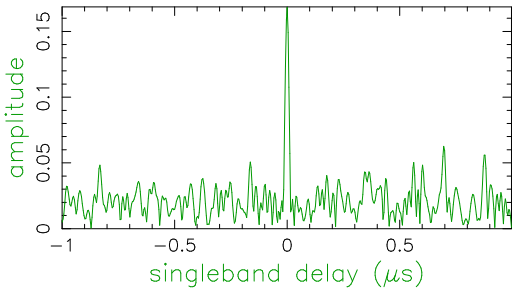
l: az 98.8 el 47.0 pa -58.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 258.626 146.758 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lp.W.173.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

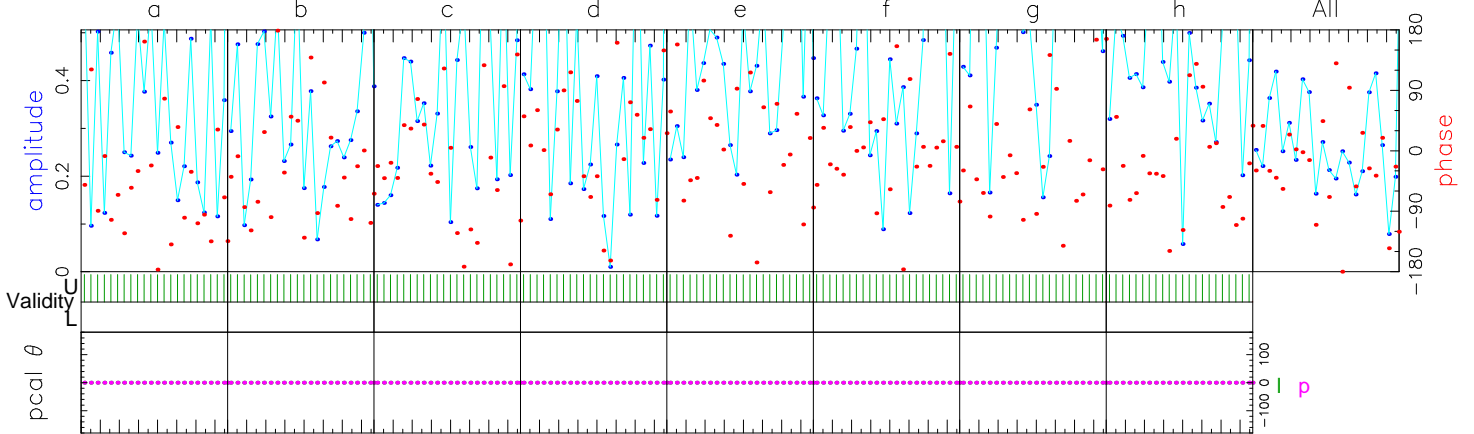
OJ287.18P9EC, No0027, lp
VLBA_LA - VLBA_PT, fgroup W, pol LR



Fringe quality 9
SNR 9.7
Int time 438.423
Amp 0.169
Phase -14.1
PFD 1.8e-13
Delays (us)
SBD -0.000667
MBD -0.000292
Fringe rate (Hz) 0.017241
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
2020:197:120838
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



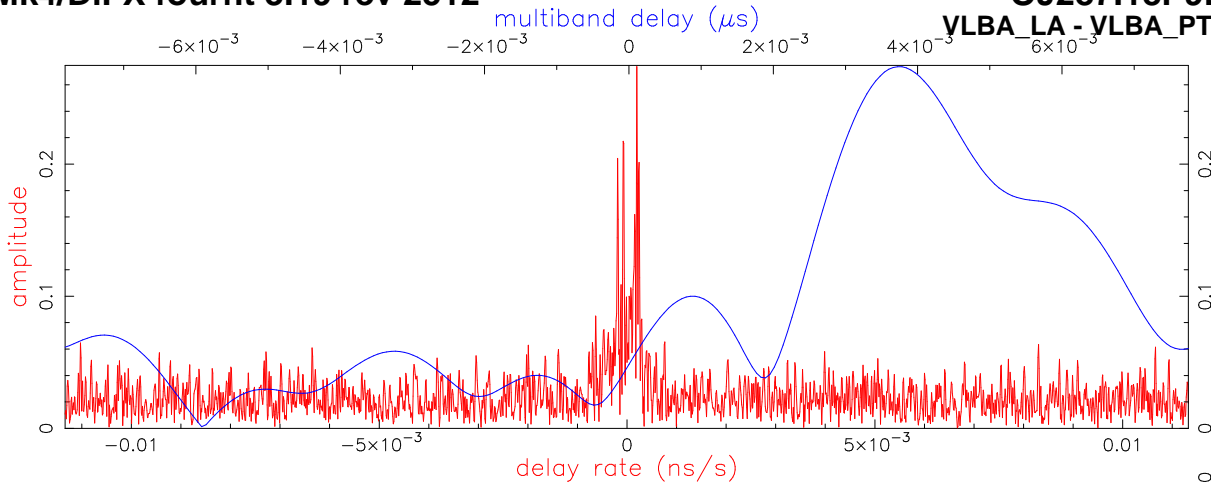
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.6	-43.1	82.2	41.2	18.0	-6.3	-31.8	-37.1	Phase	-14.1
	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.2	Ampl.	0.2
	256.2	217.1	342.4	257.9	256.6	256.4	256.7	256.4	Sbd box	256.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.07945553301E+02		Apriori delay (usec)		3.07945845323E+02		Resid mbdelay (usec)		-2.92022E-04	+/- 1.1E-04
Sband delay (usec)	3.07945178073E+02		Apriori clock (usec)		-2.0945147E+01		Resid sbdelay (usec)		-6.67250E-04	+/- 8.9E-04
Phase delay (usec)	3.07945844868E+02		Apriori clockrate (us/s)		-3.5488658E-07		Resid phdelay (usec)		-4.54964E-07	+/- 3.8E-07
Delay rate (us/s)	-4.27294100516E-02		Apriori rate (us/s)		-4.27296102050E-02		Resid rate (us/s)		2.00153E-07	+/- 1.5E-09
Total phase (deg)	27.7		Apriori accel (us/s/s)		-9.36481818295E-07		Resid phase (deg)		-14.1	+/- 11.9

	RMS	Theor.	Amplitude	0.169 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	69.2	28.4	Search (2048X32)	0.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/seg (%)	79.1	49.6	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	55.6	16.8	Inc. seg. avg.	0.238	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	56.8	29.3	Inc. frq. avg.	0.201				

l: az 98.8 el 47.0 pa -58.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 258.626 146.758 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/lp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/lp.W.196.18P9EC

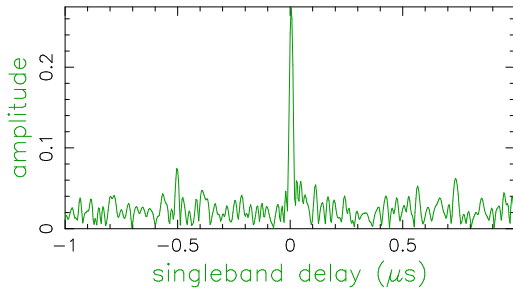
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, lp
VLBA_LA - VLBA_PT, fgroup W, pol RL

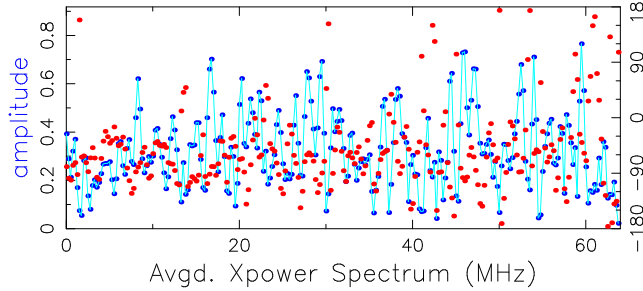


Fringe quality 7

SNR 15.7
Int time 438.422
Amp 0.275
Phase -60.3
PFD 0.0e+00
Delays (us)
SBD 0.004666
MBD 0.003758
Fringe rate (Hz)
0.017118
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

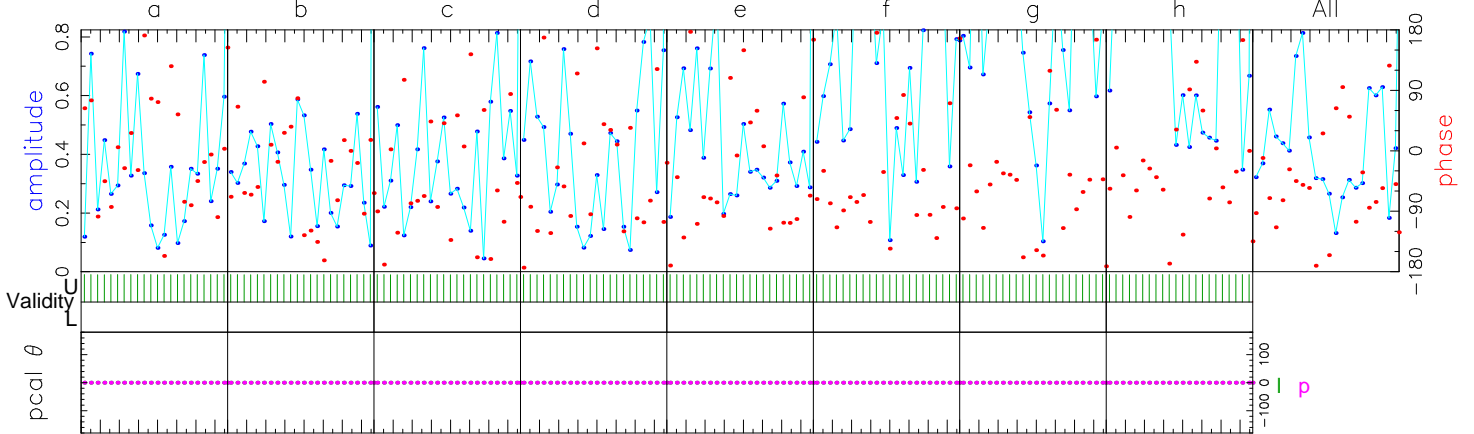


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120842
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
	-17.3	-33.9	-79.1	-93.0	-89.7	-77.4	-54.2	-44.2	Phase	-60.3
	0.2	0.1	0.1	0.2	0.2	0.5	0.5	0.5	Ampl.	0.3
	257.2	259.2	259.6	257.6	258.5	258.1	258.0	258.2	Sbd box	258.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.07949603707E+02	Apriori delay (usec)	3.07945845323E+02	Resid mbdelay (usec)	3.75838E-03	+/-	6.9E-05
Sband delay (usec)	3.07950511323E+02	Apriori clock (usec)	-2.0945147E+01	Resid sbdelay (usec)	4.66600E-03	+/-	5.5E-04
Phase delay (usec)	3.07945843377E+02	Apriori clockrate (us/s)	-3.5488658E-07	Resid phdelay (usec)	-1.94549E-06	+/-	2.3E-07
Delay rate (us/s)	-4.27294114765E-02	Apriori rate (us/s)	-4.27296102050E-02	Resid rate (us/s)	1.98728E-07	+/-	9.3E-10
Total phase (deg)	-18.5	Apriori accel (us/s/s)	-9.36481818295E-07	Resid phase (deg)	-60.3	+/-	7.3

ph/seg (deg)	RMS 74.5	Theor. 17.5	Amplitude Search (2048X32)	0.275 +/- 0.017	0.268	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.7	30.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	PCal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	30.1	10.3	Inc. seg. avg.	0.401	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	58.9	18.0	Inc. frq. avg.	0.291	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
					nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

l: az 98.8 el 47.0 pa -58.5

p: az 96.0 el 45.7 pa -60.9

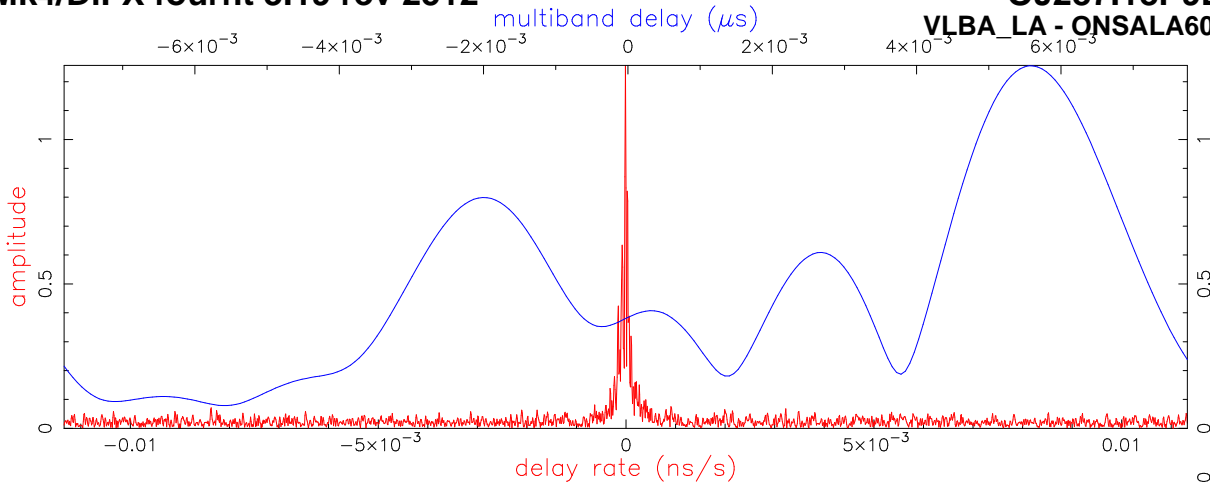
u,v (fr/asec) 258.626 146.758

simultaneous interpolator

Control file: cf_1234_gmva

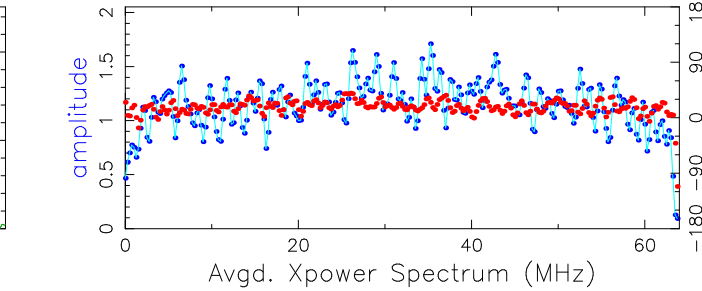
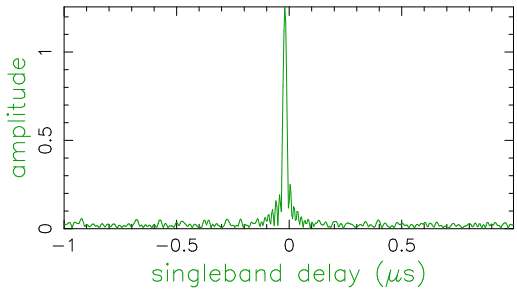
Input file: /Exps/c201a/v1/1234/No0027/lp..18P9EC

Output file: /Exps/c201a/v1/1234/No0027/lp.W.213.18P9EC



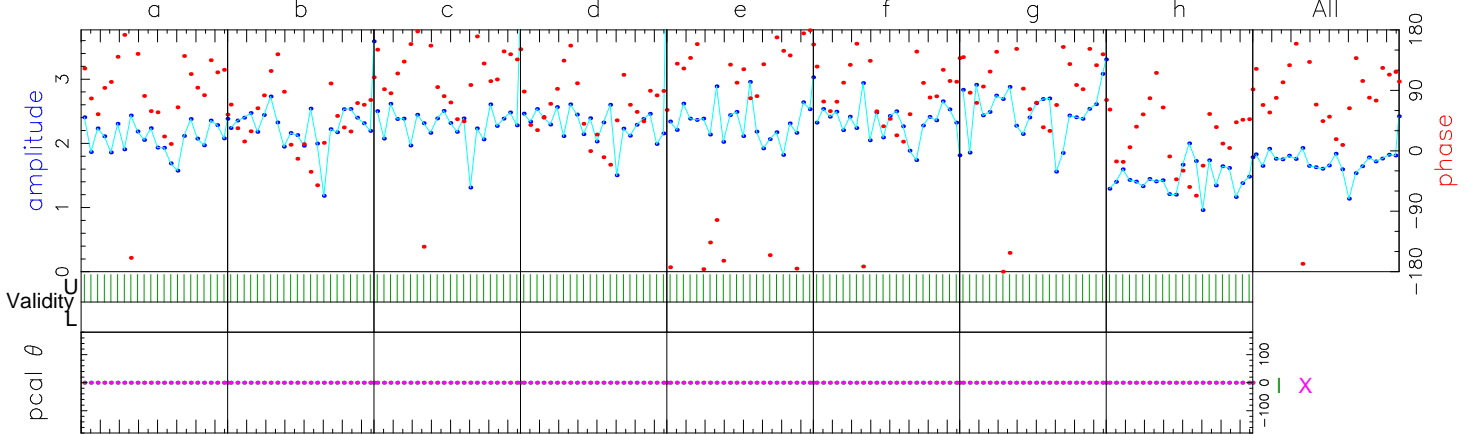
Fringe quality 3

SNR 72.0
Int time 439.298
Amp 1.256
Phase 93.5
PFD 0.0e+00
Delays (us)
SBD -0.019110
MBD 0.005593
Fringe rate (Hz)
-0.001263
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
2020:197:120829
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



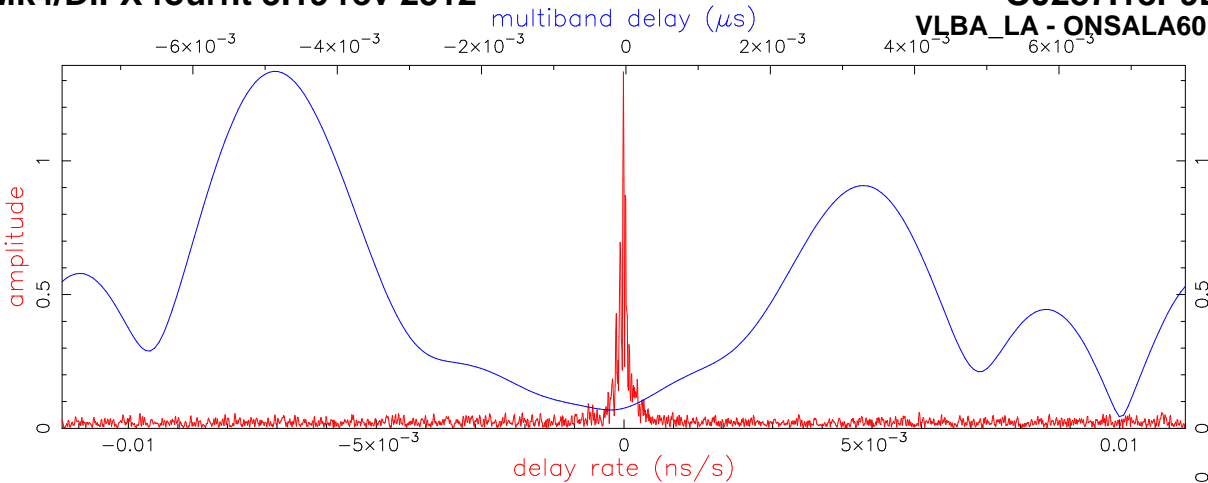
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	6.57169388695E+03	Apriori delay (usec)		6.57171954391E+03	Resid mbdelay (usec)	5.59304E-03	+/-	1.5E-05
Sband delay (usec)	6.57170043391E+03	Apriori clock (usec)		-4.4393761E+01	Resid sbdelay (usec)	-1.91100E-02	+/-	1.2E-04
Phase delay (usec)	6.57171954693E+03	Apriori clockrate (us/s)		-6.7900004E-07	Resid phdelay (usec)	3.01650E-06	+/-	5.1E-08
Delay rate (us/s)	1.58720754840E+00	Apriori rate (us/s)		1.58720756307E+00	Resid rate (us/s)	-1.46671E-08	+/-	2.0E-10
Total phase (deg)	278.1	Apriori accel (us/s/s)		-4.51491113099E-05	Resid phase (deg)	93.5	+/-	1.6

ph/seg (deg)	44.2	RMS	Theor.	Amplitude	1.256 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	38.3	44.2	3.8	Search (2048X32)	1.187	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	48.1	38.3	6.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	32.2	48.1	2.3	Inc. seg. avg.	1.706	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
		32.2	3.9	Inc. frq. avg.	1.591	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

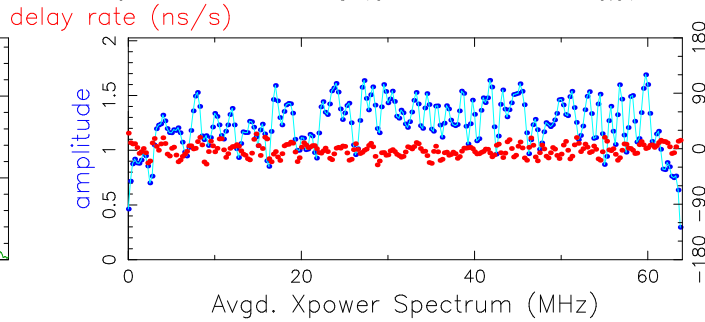
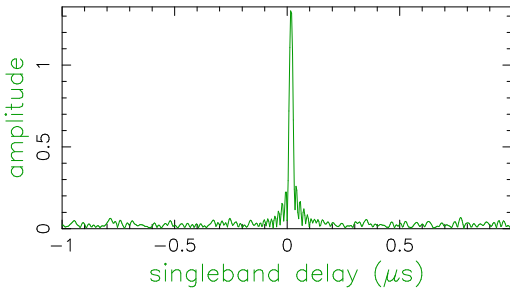
I: az 98.8 el 47.0 pa -58.5 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9745.987 -3387.162 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IX.W.163.18P9EC



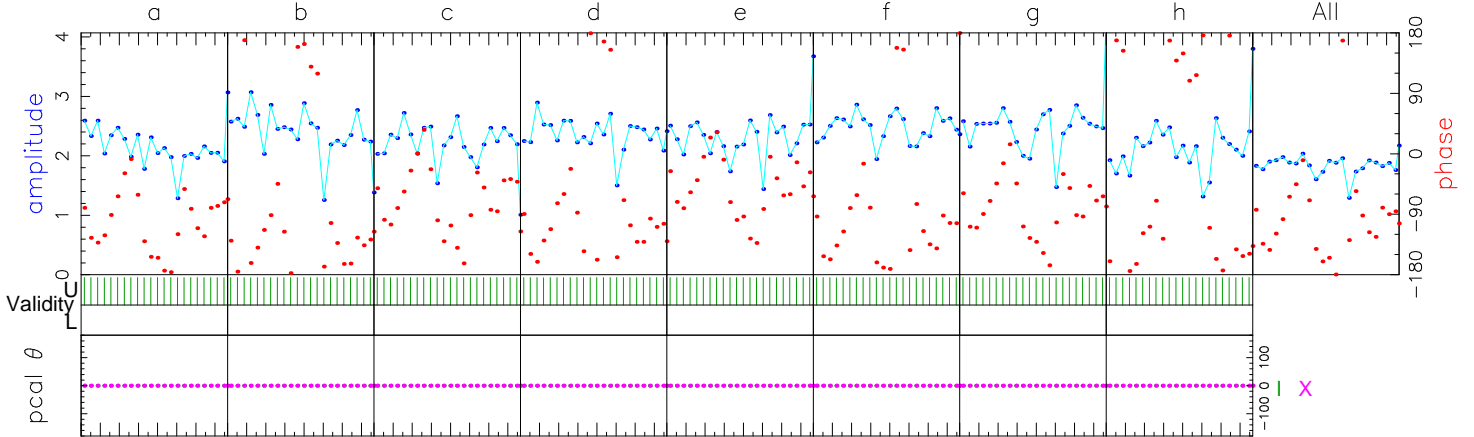
Fringe quality 3

SNR 77.8
 Int time 439.298
 Amp 1.357
 Phase -107.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.017342
 MBD -0.004800
 Fringe rate (Hz)
 -0.001246
 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
 2020:197:120833
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

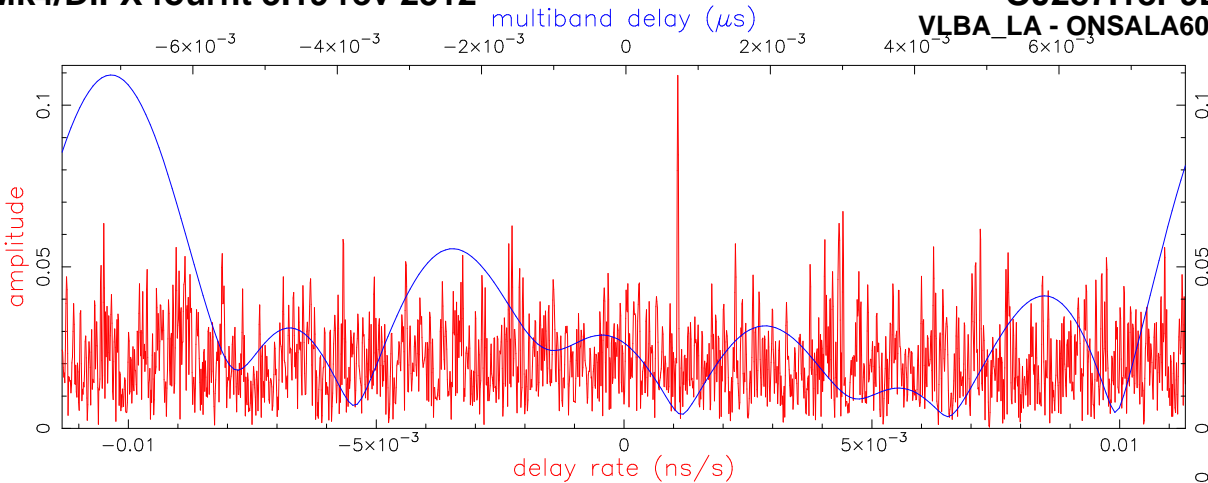
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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			
I	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
I	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	6.57173036904E+03		Apriori delay (usec)		6.57171954391E+03		Resid mbdelay (usec)		-4.79987E-03	+/- 1.4E-05	
Sband delay (usec)	6.57173688591E+03		Apriori clock (usec)		-4.4393761E+01		Resid sbdelay (usec)		1.73420E-02	+/- 1.1E-04	
Phase delay (usec)	6.57171954046E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		-3.45655E-06	+/- 4.8E-08	
Delay rate (us/s)	1.58720754861E+00		Apriori rate (us/s)		1.58720756307E+00		Resid rate (us/s)		-1.44617E-08	+/- 1.9E-10	
Total phase (deg)			77.4		Apriori accel (us/s/s)		-4.51491113099E-05		Resid phase (deg)	-107.2	+/- 1.5

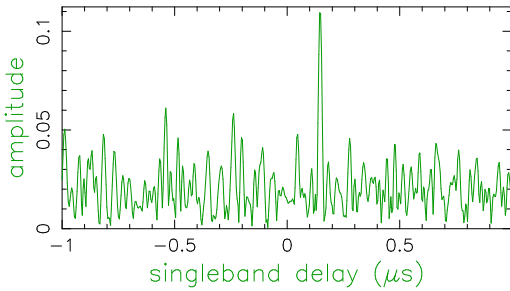
	RMS	Theor.	Amplitude	1.357 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	44.3	3.5	Search (2048X32)	1.290	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	36.6	6.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	44.5	2.1	Inc. seg. avg.	1.827	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	25.1	3.6	Inc. frq. avg.	1.682	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 98.8 el 47.0 pa -58.5 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9745.987 -3387.162 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IX.W.177.18P9EC

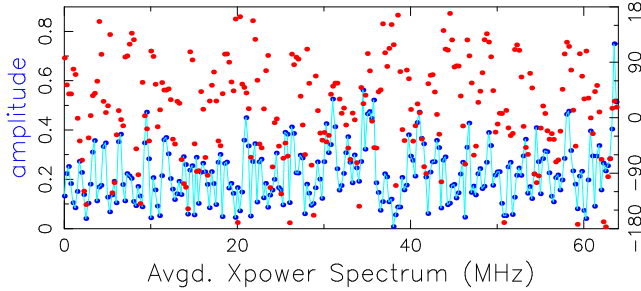


Fringe quality 0

SNR 6.4
 Int time 439.298
 Amp 0.112
 Phase -8.5
 PFD 3.8e-02
 Delays (us)
 SBD 0.146428
 MBD -0.007087
 Fringe rate (Hz)
 0.093970
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

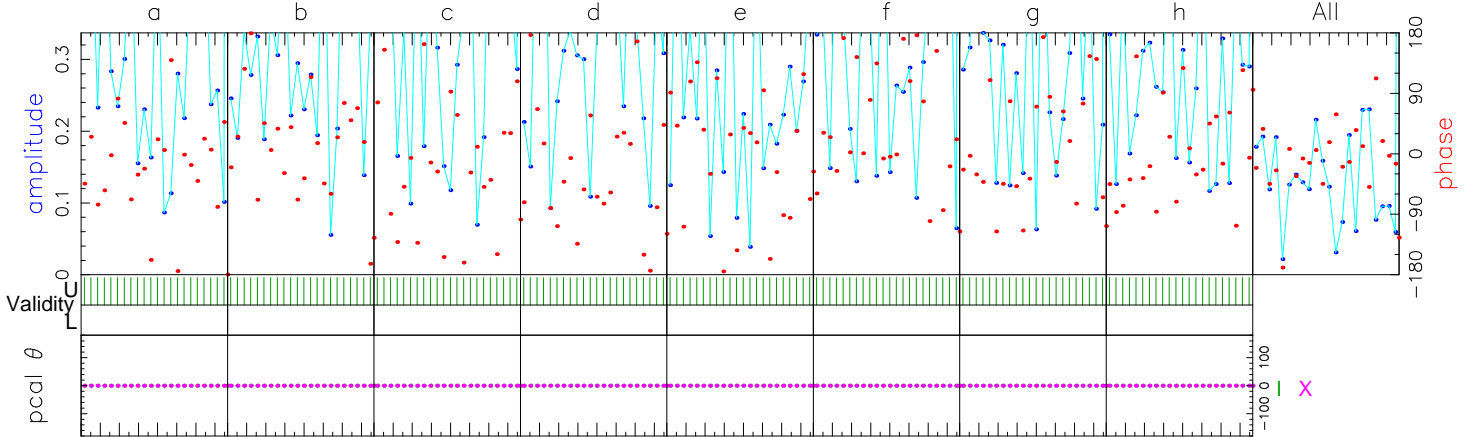


delay rate (ns/s)



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120838
 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

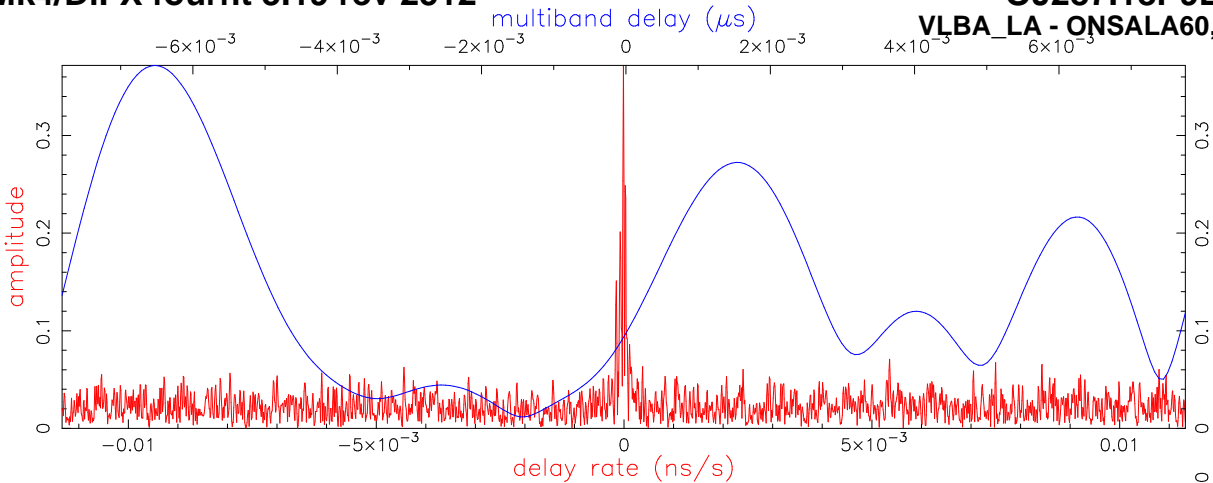


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-16.6	19.3	-21.1	-28.4	37.7	-0.8	-24.6	-19.9		Phase
	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1		Ampl.
	293.7	23.9	429.9	451.9	457.7	328.2	74.9	294.8		Sbd box
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used
I	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC
I	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec)(sbd)	6.57186870664E+03	Apriori delay (usec)	6.57171954391E+03	Resid mbdelay (usec)	-7.08727E-03	+/-	1.7E-04
Sband delay (usec)	6.57186597241E+03	Apriori clock (usec)	-4.4393761E+01	Resid sbdelay (usec)	1.46428E-01	+/-	1.3E-03
Phase delay (usec)	6.57171954364E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-2.74596E-07	+/-	5.8E-07
Delay rate (us/s)	1.58720865396E+00	Apriori rate (us/s)	1.58720756307E+00	Resid rate (us/s)	1.09089E-06	+/-	2.3E-09
Total phase (deg)	176.1	Apriori accel (us/s/s)	-4.51491113099E-05	Resid phase (deg)	-8.5	+/-	17.9

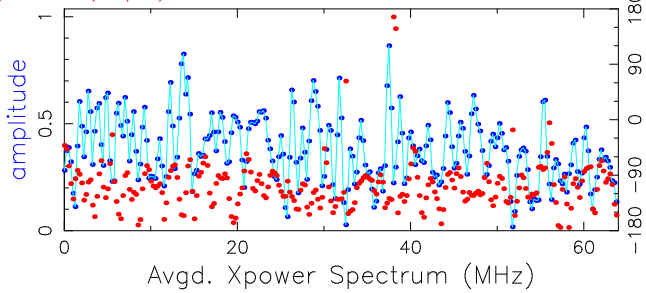
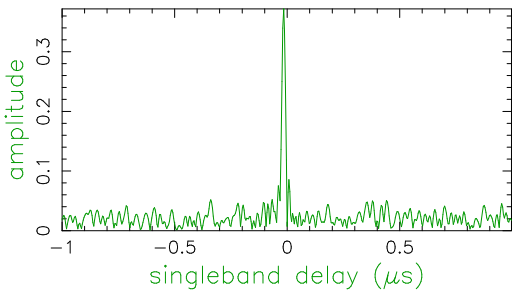
ph/seg (deg)	51.0	Theor.	42.8	Amplitude	0.112 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.2		74.8	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	25.8		25.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.4		44.1	Inc. seg. avg.	0.103	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 98.8 el 47.0 pa -58.5 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9745.987 -3387.162 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IX...18P9EC Output file: /Exps/c201a/v1/1234/No0027/IX.W.193.18P9EC



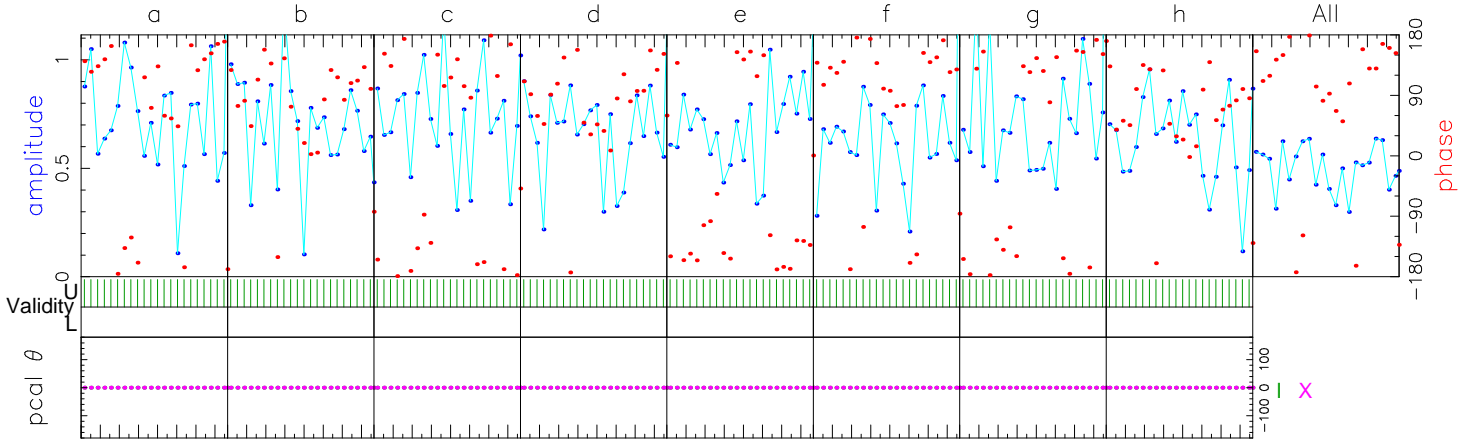
Fringe quality 8

SNR 21.3
 Int time 439.298
 Amp 0.372
 Phase 143.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.015754
 MBD -0.006530
 Fringe rate (Hz)
 -0.001289
 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
 2020:197:120842
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

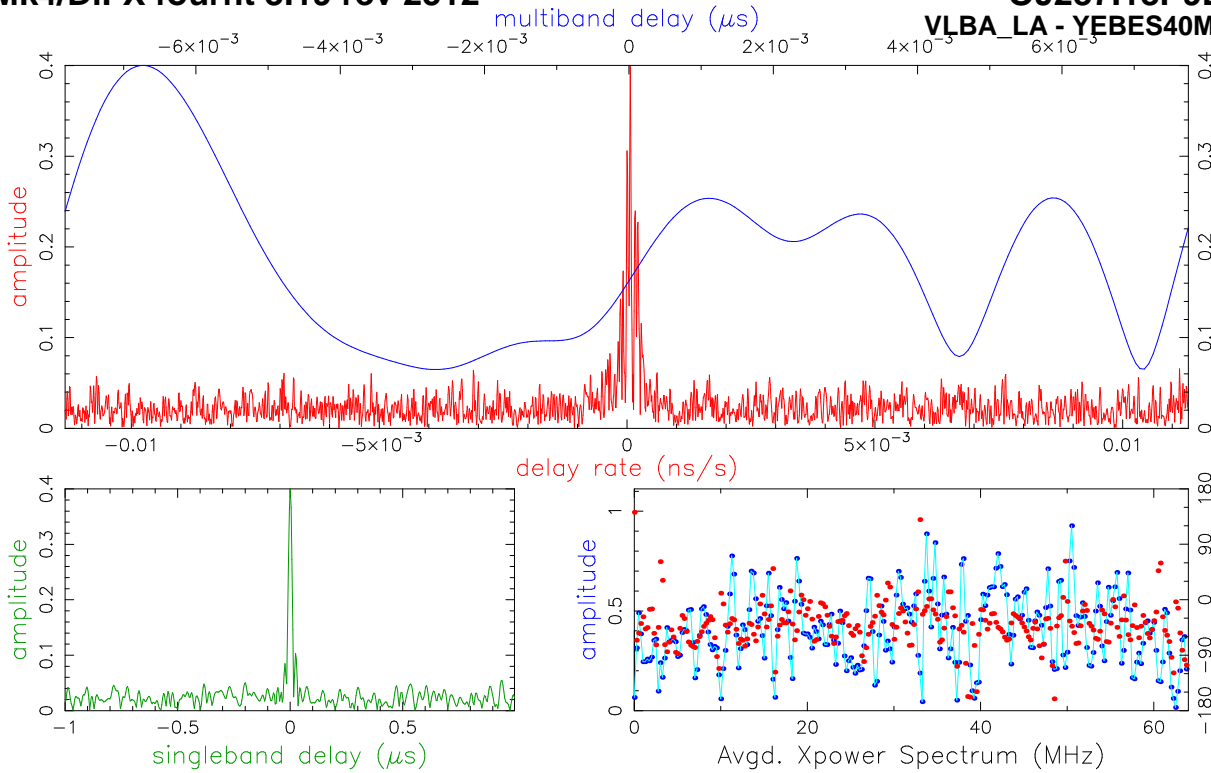
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
Group delay (usec)(sbd)	6.57169738936E+03		Apriori delay (usec)		6.57171954391E+03		Resid mbdelay (usec)		-6.52956E-03	+/- 5.1E-05
Sband delay (usec)	6.57170378966E+03		Apriori clock (usec)		-4.4393761E+01		Resid sbdelay (usec)		-1.57543E-02	+/- 4.0E-04
Phase delay (usec)	6.57171954852E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		4.61060E-06	+/- 1.7E-07
Delay rate (us/s)	1.58720754810E+00		Apriori rate (us/s)		1.58720756307E+00		Resid rate (us/s)		-1.49654E-08	+/- 6.8E-10
Total phase (deg)	327.6		Apriori accel (us/s/s)		-4.51491113099E-05		Resid phase (deg)		143.0	+/- 5.4

	RMS	Theor.	Amplitude	0.372 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	44.6	12.9	Search (2048X32)	0.350	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	45.4	22.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	48.4	7.6	Inc. seg. avg.	0.493	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	34.1	13.3	Inc. frq. avg.	0.486	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 98.8 el 47.0 pa -58.5 X: az 266.5 el 26.2 pa 35.0 u,v (fr/asec) -9745.987 -3387.162 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IX..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IX.W.212.18P9EC

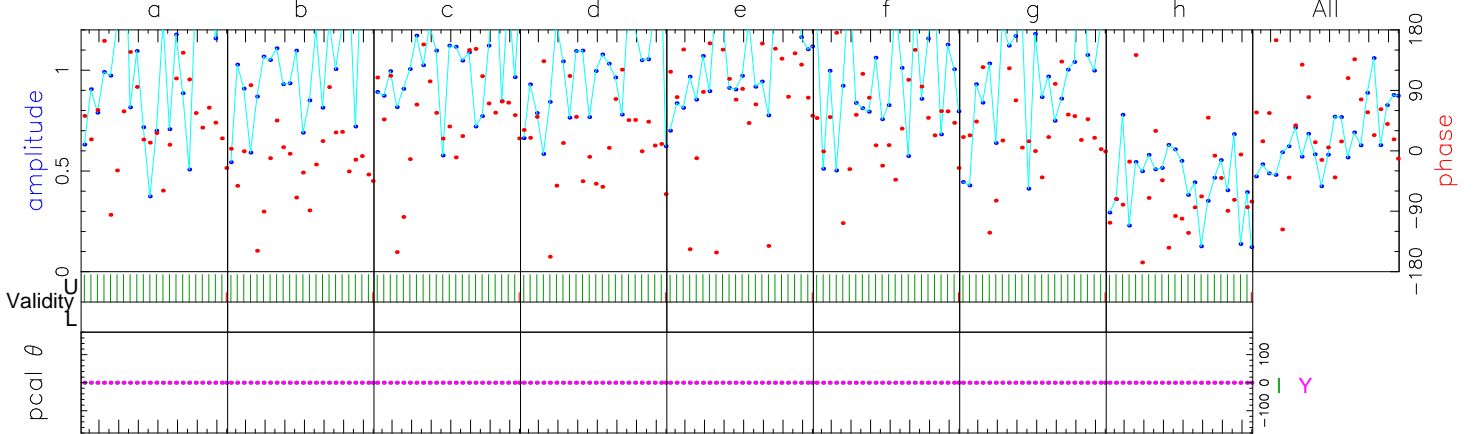


Fringe quality 7

SNR 22.8
Int time 433.867
Amp 0.400
Phase 38.3
PFD 0.0e+00
Delays (us)
SBD 0.000139
MBD -0.006734
Fringe rate (Hz)
0.005679
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
2020:197:120830
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

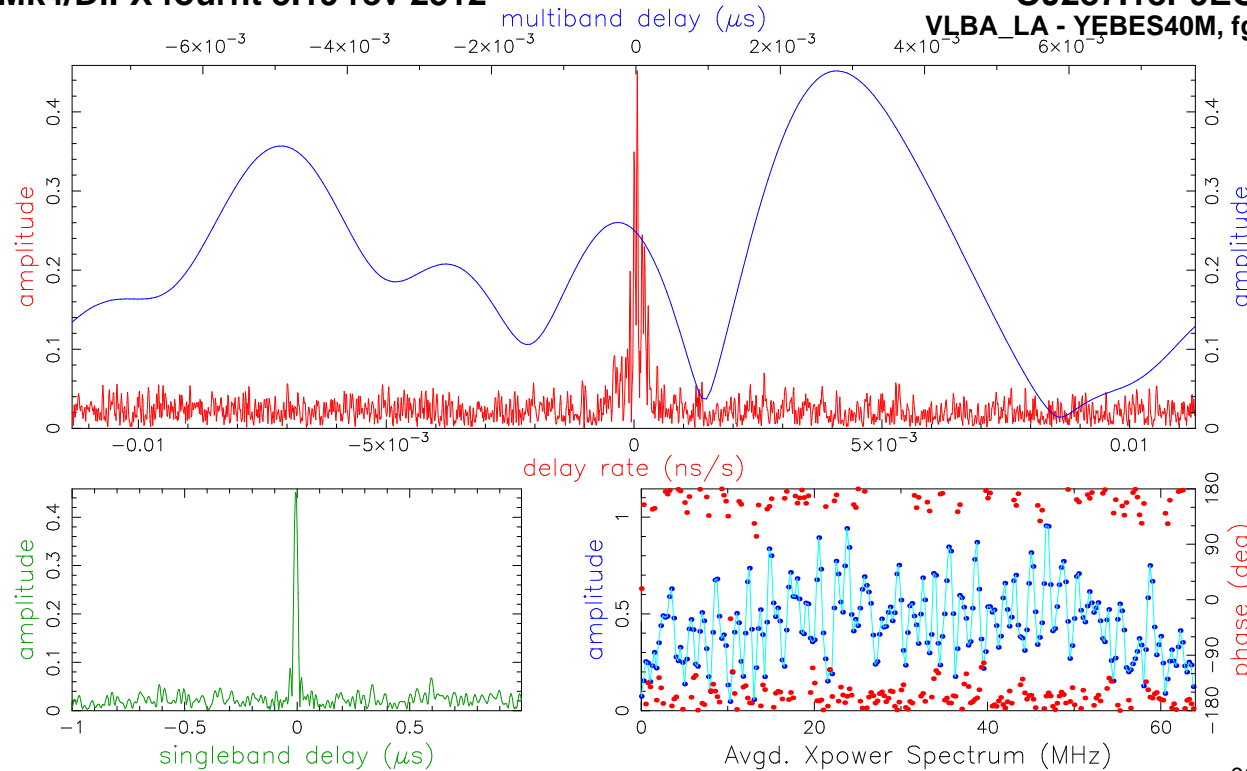


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0			
I	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
I	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)		3.11523281348E+03			3.11523954732E+03						
Sband delay (usec)		3.11523968682E+03			-1.5643425E+01						
Phase delay (usec)		3.11523954855E+03			-3.7100000E-07						
Delay rate (us/s)		1.77851014281E+00			1.77851007689E+00						
Total phase (deg)			256.4		-1.91631406819E-05						
				Apriori delay (usec)					Resid mbdelay (usec)	-6.73384E-03	+/- 4.8E-05
				Apriori clock (usec)					Resid sbdelay (usec)	1.39500E-04	+/- 3.8E-04
				Apriori clockrate (us/s)					Resid phdelay (usec)	1.23450E-06	+/- 1.6E-07
									Resid rate (us/s)	6.59270E-08	+/- 6.5E-10
				Apriori accel (us/s/s)					Resid phase (deg)	38.3	+/- 5.0

	RMS	Theor.	Amplitude	0.400 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	62.3	12.1	Search (2048X32)	0.398	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	75.7	21.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	64.4	7.1	Inc. seg. avg.	0.646	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.9	12.4	Inc. frq. avg.	0.570	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 98.8 el 47.0 pa -58.5 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10871.273 -1030.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IY.W.164.18P9EC

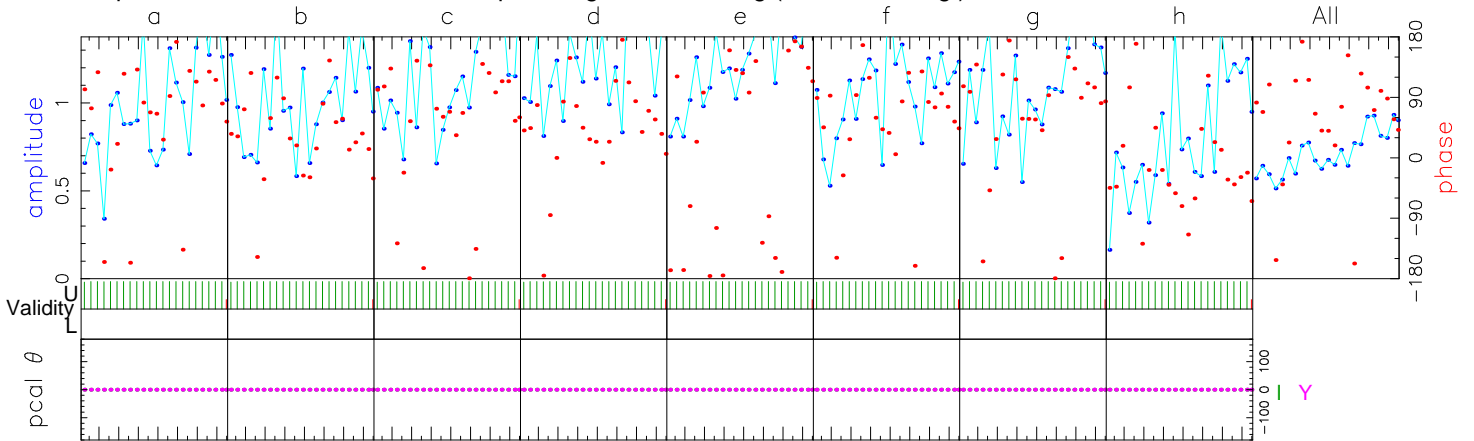


Fringe quality 5

SNR 26.1
 Int time 433.867
 Amp 0.459
 Phase 87.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.006146
 MBD 0.002815
 Fringe rate (Hz)
 0.005726
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

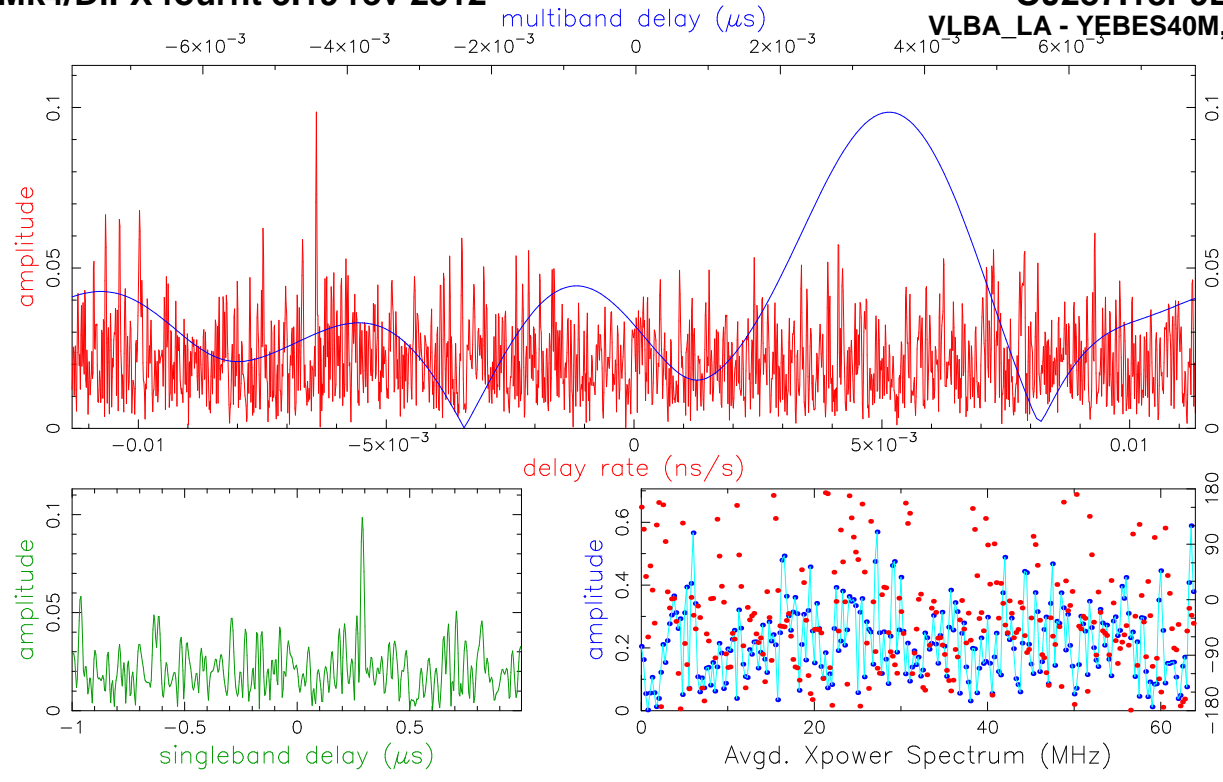
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224505.12
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120833
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.11522673779E+03				3.11523954732E+03			2.81548E-03	+/- 4.2E-05
Sband delay (usec)		3.11523340132E+03				-1.5643425E+01			-6.14600E-03	+/- 3.3E-04
Phase delay (usec)		3.11523955014E+03				-3.7100000E-07			2.82305E-06	+/- 1.4E-07
Delay rate (us/s)		1.77851014336E+00				1.77851007689E+00			6.64719E-08	+/- 5.6E-10
Total phase (deg)			305.7			-1.91631406819E-05			87.5	+/- 4.4
ph/seg (deg)	58.2	10.5								
amp/seg (%)	61.3	18.4								
ph/frq (deg)	63.5	6.2								
amp/frq (%)	49.6	10.8								
I: az 98.8 el 47.0 pa -58.5										
Y: az 265.0 el 37.4 pa 53.7										
u,v (fr/asec)										
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/IY..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/IY.W.178.18P9EC										

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MISamp/s): 128
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite
 sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00
 simultaneous interpolator

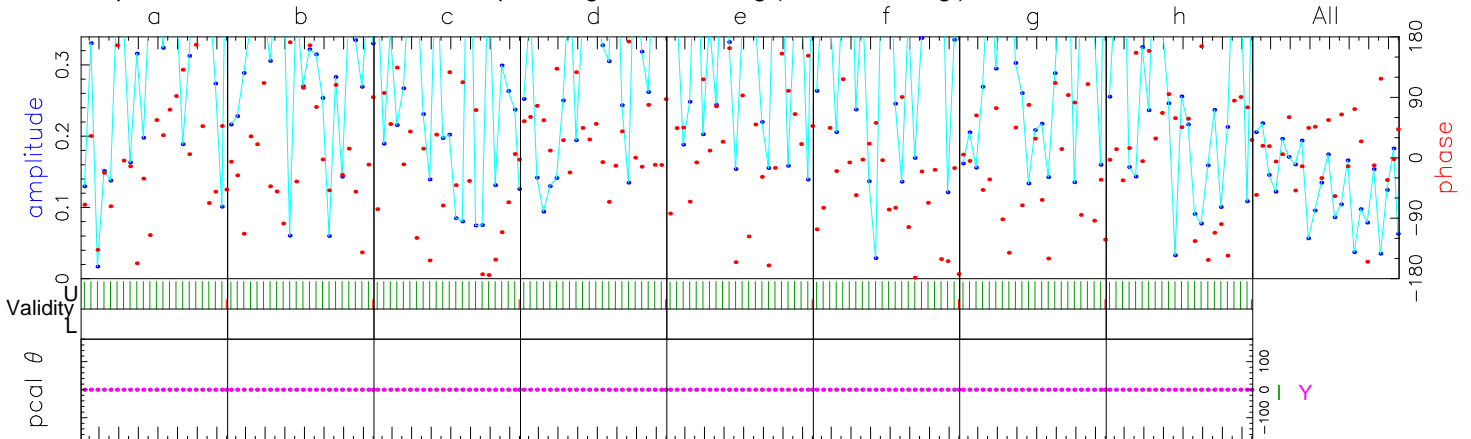


Fringe quality 0

SNR 5.6
 Int time 433.867
 Amp 0.113
 Phase 2.4
 PFD 9.9e-01
 Delays (us)
 SBD 0.289664
 MBD 0.003507
 Fringe rate (Hz)
 -0.553170
 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
 2020:197:120837
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

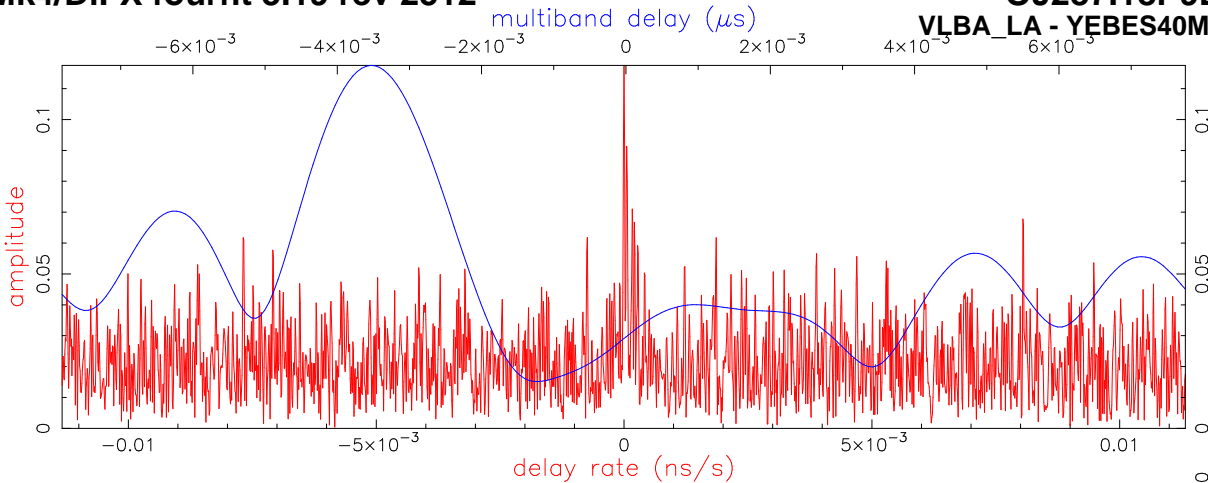
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.11552430396E+03				3.11523954732E+03			Resid mbdelay (usec)	3.50665E-03 +/- 1.9E-04
Sband delay (usec)		3.11552921157E+03				-1.5643425E+01			Resid sbdelay (usec)	2.89664E-01 +/- 1.5E-03
Phase delay (usec)		3.11523954739E+03				-3.7100000E-07			Resid phdelay (usec)	7.67298E-08 +/- 6.6E-07
Delay rate (us/s)		1.77850365513E+00				1.77851007689E+00			Resid rate (us/s)	-6.42176E-06 +/- 2.6E-09
Total phase (deg)			220.5						Resid phase (deg)	2.4 +/- 20.4
	RMS	Theor.	Amplitude	0.113 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.2	48.8	Search (2048X32)	0.097					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	63.7	85.2	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	32.8	28.8	Inc. seg. avg.	0.111					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	54.5	50.3	Inc. frq. avg.	0.115					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

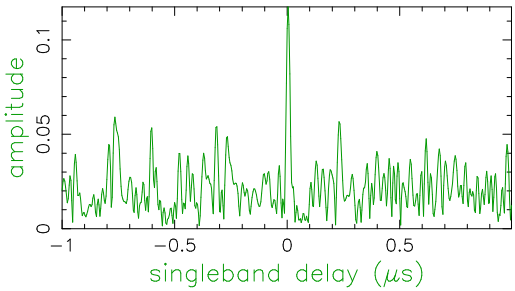
I: az 98.8 el 47.0 pa -58.5 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10871.273 -1030.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IY.W.190.18P9EC

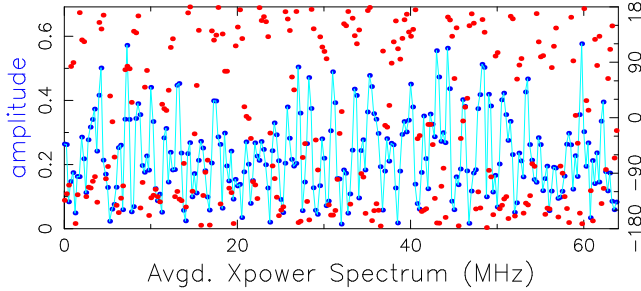


Fringe quality 0

SNR 6.7
 Int time 433.867
 Amp 0.118
 Phase -84.3
 PFD 6.2e-03
 Delays (us)
 SBD 0.004098
 MBD -0.003520
 Fringe rate (Hz)
 0.000248
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

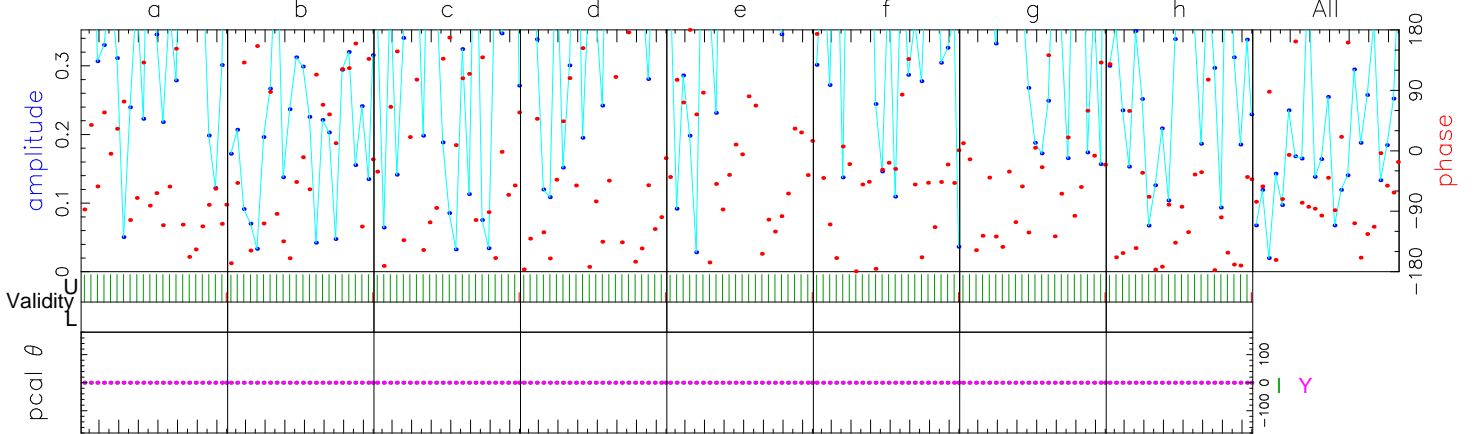


delay rate (ns/s)



Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224505.12
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120841
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

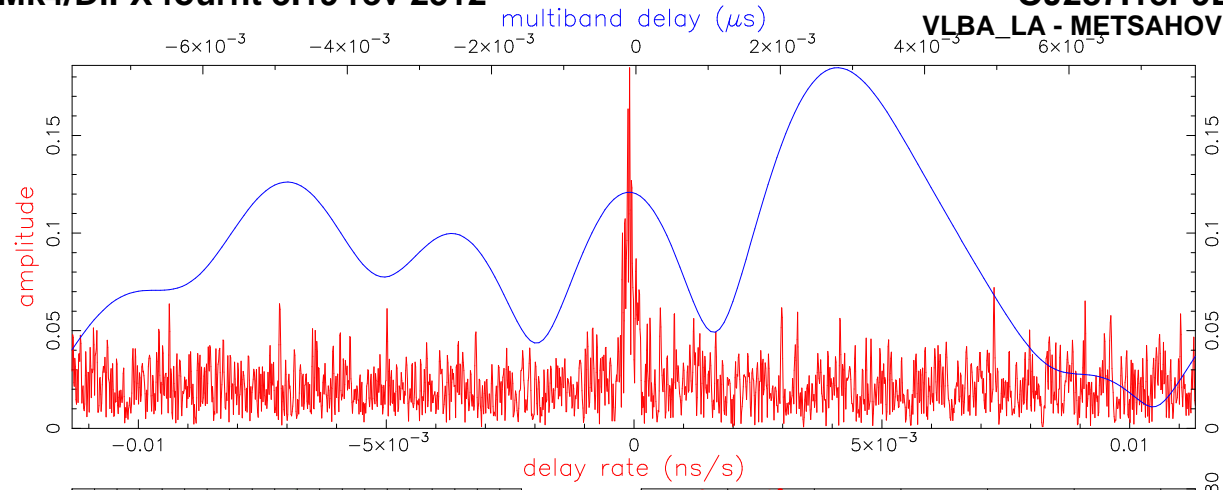
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.5	-126.6	-80.6	-122.7	-23.0	-63.0	-72.2	-135.3	Phase	-84.3
	0.2	0.0	0.1	0.2	0.1	0.2	0.2	0.1	Ampl.	0.1
	317.8	147.3	207.7	257.9	62.7	418.5	257.8	328.8	Sbd box	258.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	3.11523602685E+03		Apriori delay (usec)		3.11523954732E+03		Resid mbdelay (usec)		-3.52047E-03	+/- 1.6E-04
Sband delay (usec)	3.11524364557E+03		Apriori clock (usec)		-1.5643425E+01		Resid sbdelay (usec)		4.09825E-03	+/- 1.3E-03
Phase delay (usec)	3.11523954460E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-2.71916E-06	+/- 5.5E-07
Delay rate (us/s)	1.77851007976E+00		Apriori rate (us/s)		1.77851007689E+00		Resid rate (us/s)		2.87958E-09	+/- 2.2E-09
Total phase (deg)	133.8		Apriori accel (us/s/s)		-1.91631406819E-05		Resid phase (deg)		-84.3	+/- 17.1

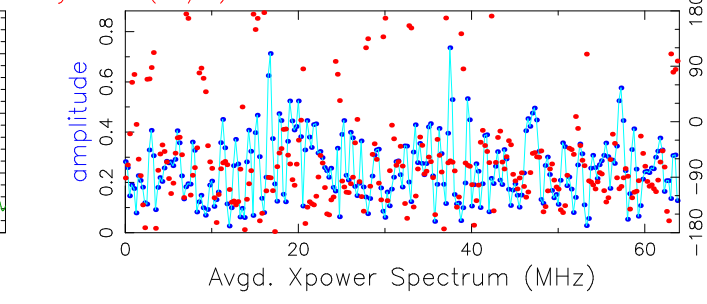
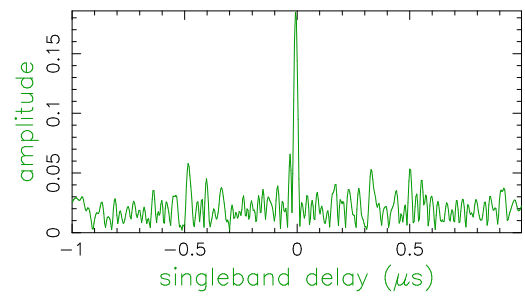
	RMS	Theor.	Amplitude	0.118 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	67.0	41.0	Search (2048X32)	0.115	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	103.5	71.6	Interp.	0.000	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	41.3	24.2	Inc. seg. avg.	0.148	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	57.0	42.3	Inc. frq. avg.	0.130	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

I: az 98.8 el 47.0 pa -58.5 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -10871.273 -1030.942 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IY.W.208.18P9EC



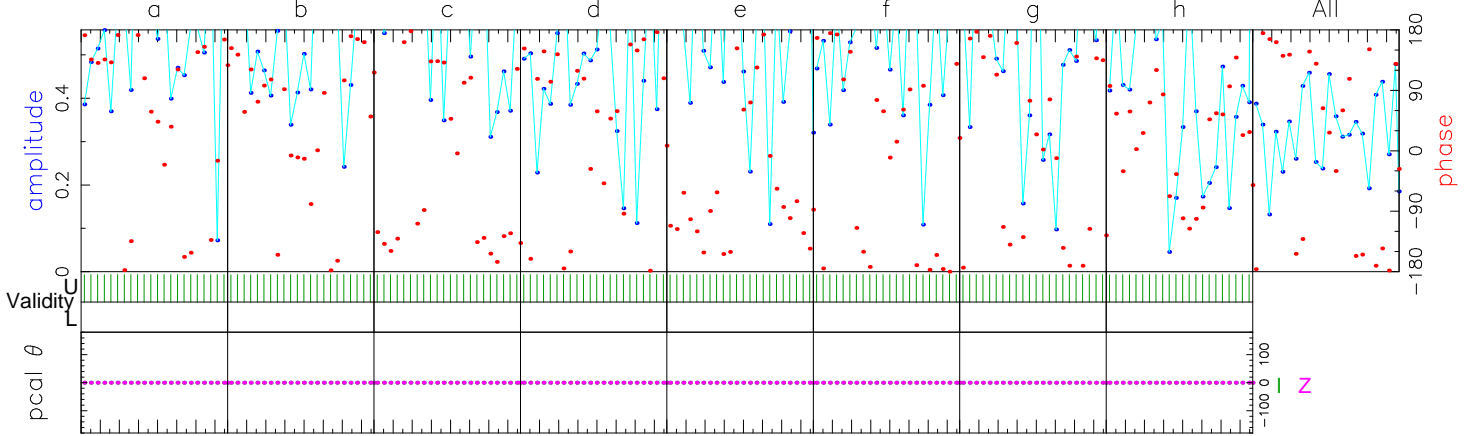
Fringe quality 9

SNR 10.6
 Int time 438.907
 Amp 0.186
 Phase 163.3
 PFD 8.1e-18
 Delays (us)
 SBD -0.006744
 MBD 0.002803
 Fringe rate (Hz)
 -0.007521
 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
 2020:197:120830
 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



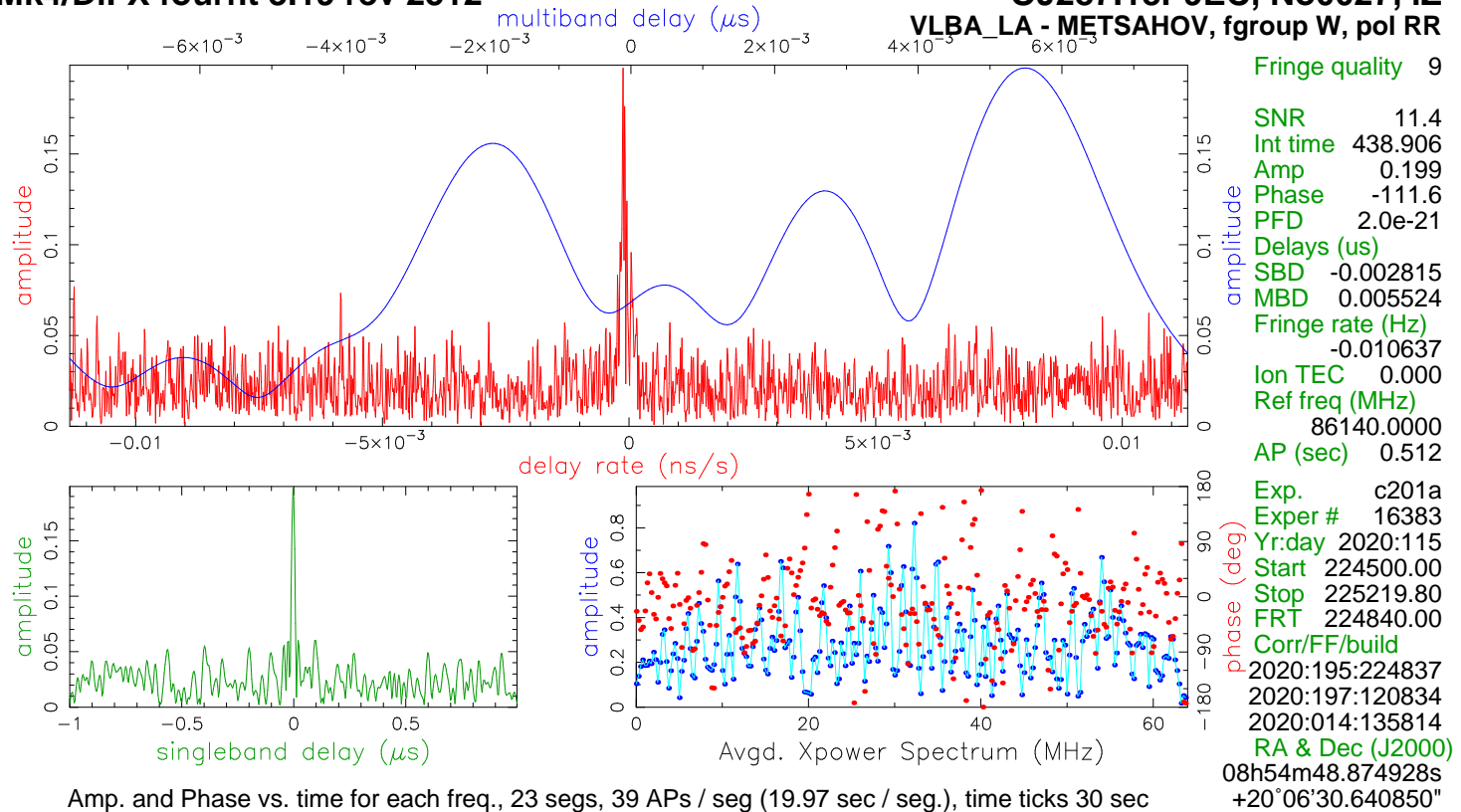
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	8.79252075321E+03	Apriori delay (usec)	8.79253357555E+03	Resid mbdelay (usec)	2.80266E-03	+/-	1.0E-04
Sband delay (usec)	8.79252683180E+03	Apriori clock (usec)	-3.5678926E+00	Resid sbdelay (usec)	-6.74375E-03	+/-	8.1E-04
Phase delay (usec)	8.79253358081E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	5.26481E-06	+/-	3.5E-07
Delay rate (us/s)	1.55632731345E+00	Apriori rate (us/s)	1.55632740076E+00	Resid rate (us/s)	-8.73071E-08	+/-	1.4E-09
Total phase (deg)	234.4	Apriori accel (us/s/s)	-5.77301425703E-05	Resid phase (deg)	163.3	+/-	10.8

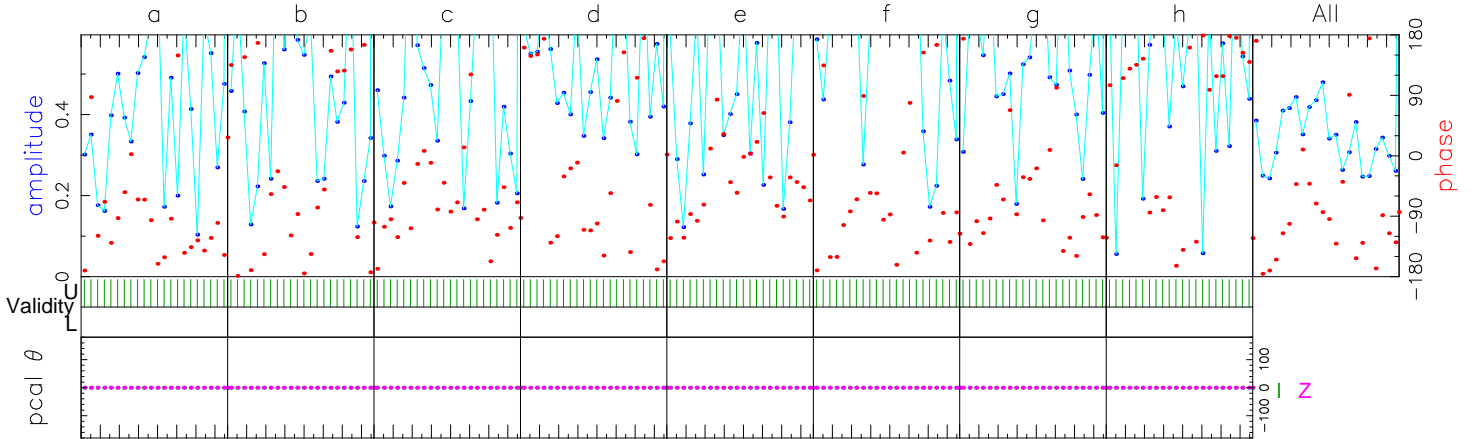
ph/seg (deg)	63.3	Theor.	Amplitude	0.186 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	91.9	25.8	Search (2048X32)	0.182	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	62.4	15.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	52.4	26.6	Inc. seg. avg.	0.301	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.263	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 98.8 el 47.0 pa -58.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9578.323 -3961.584 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IZ.W.166.18P9EC



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
	-116.9	-157.6	-79.5	-159.3	-38.4	-112.5	-88.4	166.5	Phase	-111.6
	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	Ampl.	0.3
	255.4	255.9	255.9	254.7	255.6	256.2	255.3	253.5	Sbd box	256.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	8.79252347504E+03		Apriori delay (usec)	8.79253357555E+03	Resid mbdelay (usec)	5.52449E-03	+/-	9.5E-05		
Sband delay (usec)	8.79253076080E+03		Apriori clock (usec)	-3.5678926E+00	Resid sbdelay (usec)	-2.81475E-03	+/-	7.6E-04		
Phase delay (usec)	8.79253357195E+03		Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-3.59759E-06	+/-	3.2E-07		
Delay rate (us/s)	1.55632727728E+00		Apriori rate (us/s)	1.55632740076E+00	Resid rate (us/s)	-1.23484E-07	+/-	1.3E-09		
Total phase (deg)		-40.4	Apriori accel (us/s/s)	-5.77301425703E-05	Resid phase (deg)	-111.6	+/-	10.1		

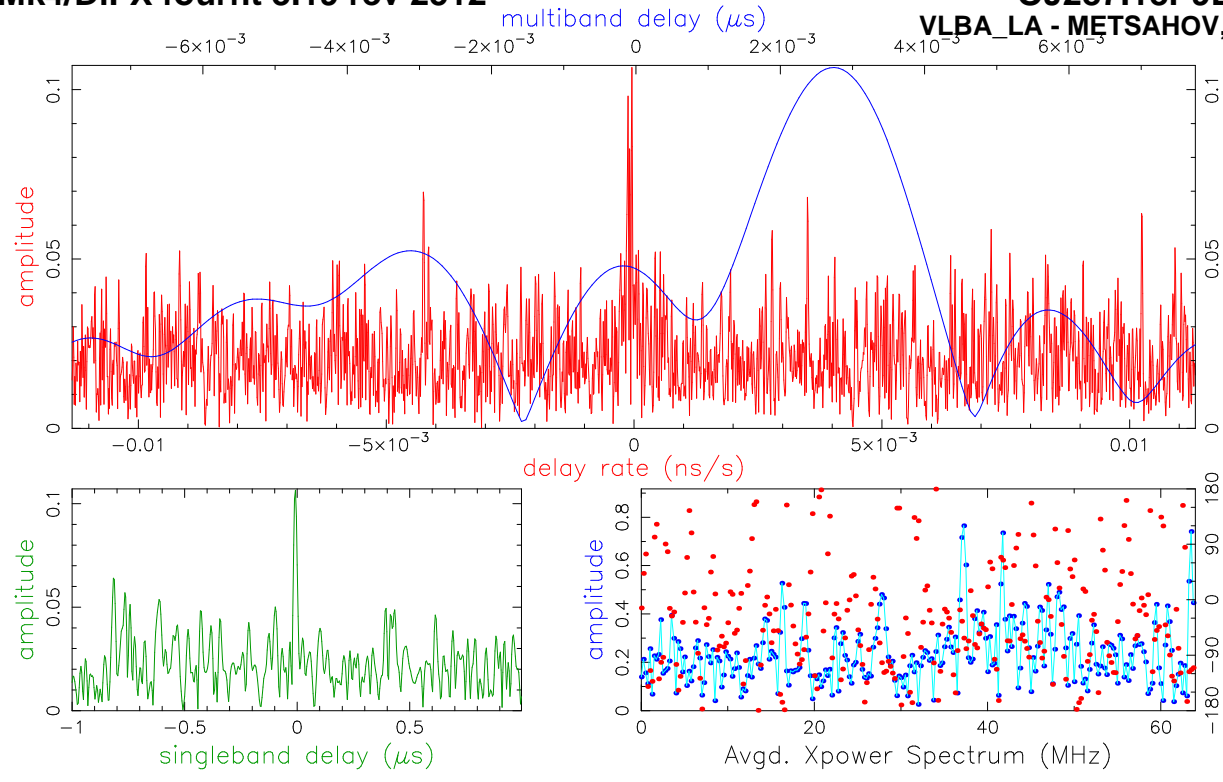
	RMS	Theor.	Amplitude	0.199 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	62.0	24.1	Search (2048X32)	0.193	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	81.4	42.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	54.9	14.2	Inc. seg. avg.	0.314	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	46.5	24.8	Inc. frq. avg.	0.272	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 98.8 el 47.0 pa -58.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9578.323 -3961.584 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IZ.W.181.18P9EC

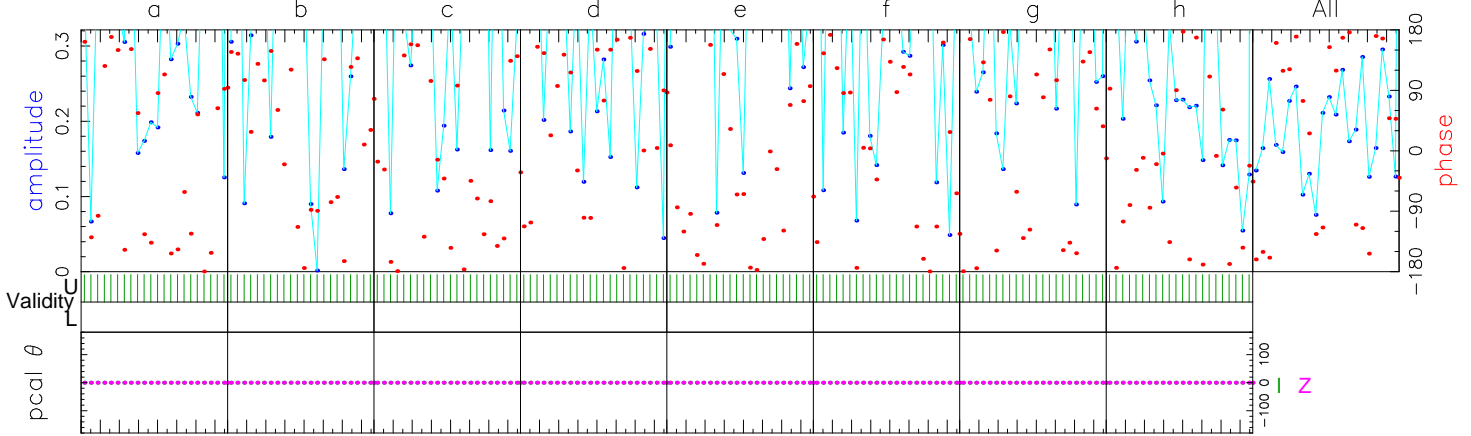
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, IZ
VLBA_LA - METSAHOV, fgroup W, pol LR



Fringe quality 0
SNR 6.1
Int time 438.907
Amp 0.107
Phase 172.1
PFD 2.0e-01
Delays (us)
SBD -0.008857
MBD 0.002709
Fringe rate (Hz)
-0.003870
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
2020:197:120839
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

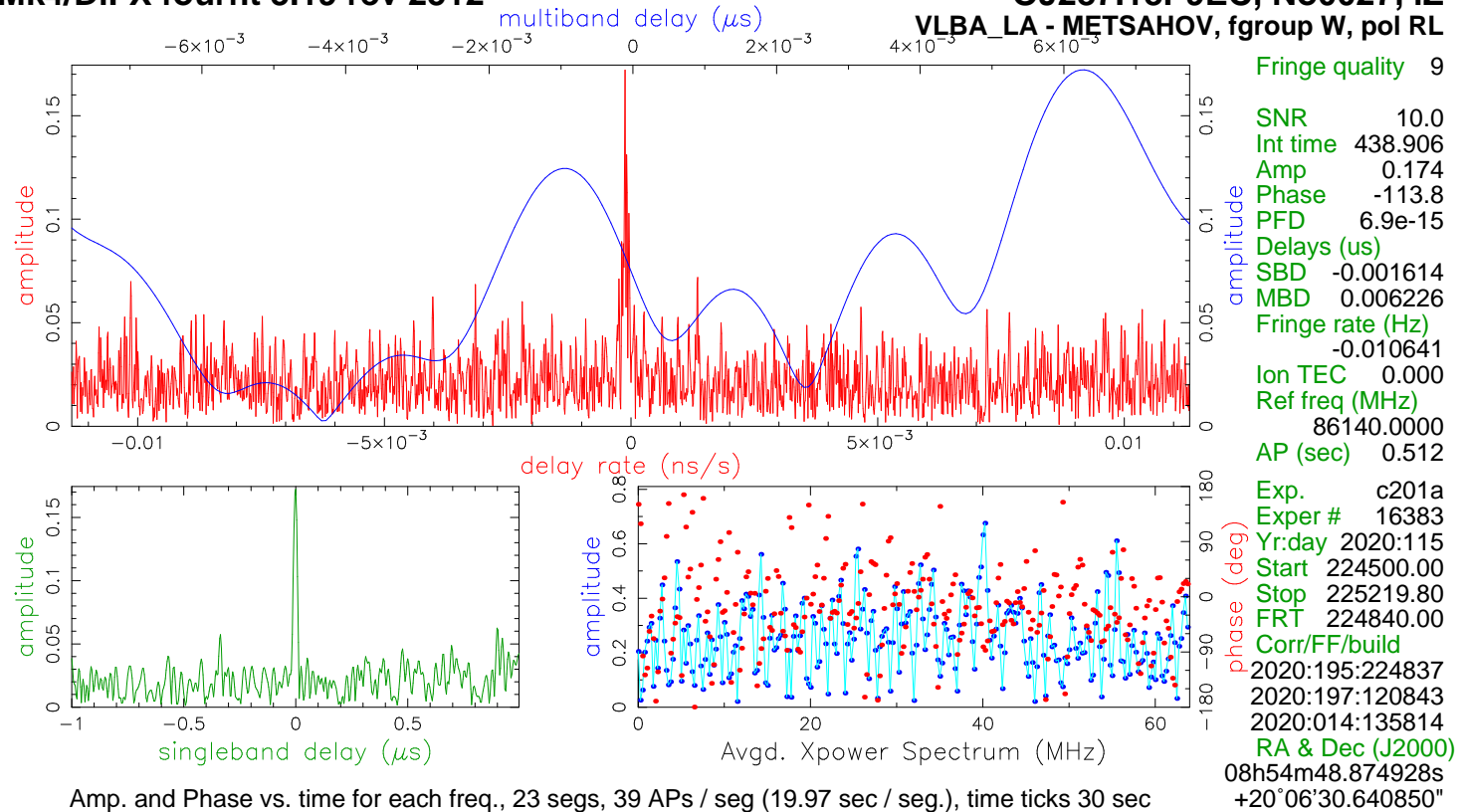


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

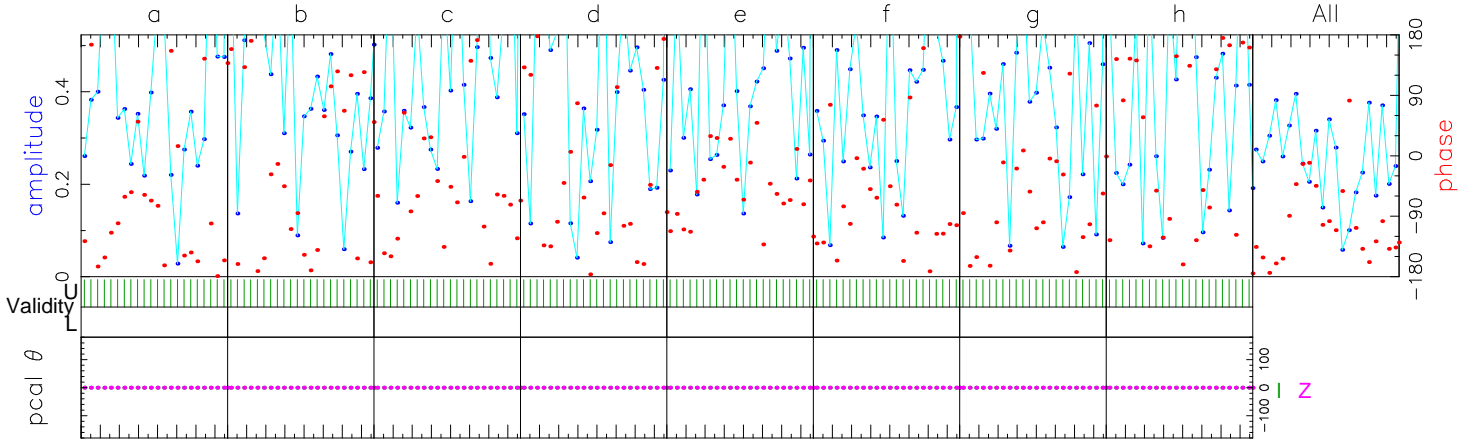
Group delay (usec)(sbd) 8.79252065966E+03 Apriori delay (usec) 8.79253357555E+03 Resid mbdelay (usec) 2.70911E-03 +/- 1.8E-04
Sband delay (usec) 8.79252471880E+03 Apriori clock (usec) -3.5678926E+00 Resid sbdelay (usec) -8.85675E-03 +/- 1.4E-03
Phase delay (usec) 8.79253358110E+03 Apriori clockrate (us/s) -1.6700000E-07 Resid phdelay (usec) 5.55092E-06 +/- 6.0E-07
Delay rate (us/s) 1.55632735584E+00 Apriori rate (us/s) 1.55632740076E+00 Resid rate (us/s) -4.49240E-08 +/- 2.4E-09
Total phase (deg) 243.3 Apriori accel (us/s/s) -5.77301425703E-05 Resid phase (deg) 172.1 +/- 18.7

RMS Theor. Amplitude 0.107 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 66.1 44.8 Search (2048X32) 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 98.0 78.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 45.6 26.4 Inc. seg. avg. 0.146 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 47.2 46.1 Inc. frq. avg. 0.112 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 98.8 el 47.0 pa -58.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9578.323 -3961.584 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IZ.W.200.18P9EC



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
	-130.7	-176.6	-88.6	-123.0	-45.8	-105.1	-83.6	-172.7		-113.8
	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.3		0.2
	256.4	256.9	256.9	255.5	255.7	255.2	254.3	255.3		256.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
Group delay (usec)(sbd)	8.79252417660E+03					8.79253357555E+03			Resid mbdelay (usec)	6.22605E-03 +/- 1.1E-04
Sband delay (usec)	8.79253196180E+03					-3.5678926E+00			Resid sbdelay (usec)	-1.61375E-03 +/- 8.6E-04
Phase delay (usec)	8.79253357188E+03					-1.6700000E-07			Resid phdelay (usec)	-3.67026E-06 +/- 3.7E-07
Delay rate (us/s)	1.55632727723E+00					1.55632740076E+00			Resid rate (us/s)	-1.23533E-07 +/- 1.5E-09
Total phase (deg)			-42.6			-5.77301425703E-05			Resid phase (deg)	-113.8 +/- 11.5

	RMS	Theor.	Amplitude	0.174 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.7	27.5	Search (2048X32)	0.170	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	70.4	48.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	48.4	16.2	Inc. seg. avg.	0.231	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.0	28.3	Inc. frq. avg.	0.223	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 98.8 el 47.0 pa -58.5 Z: az 275.9 el 19.8 pa 31.7 u,v (fr/asec) -9578.323 -3961.584 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/IZ..18P9EC Output file: /Exps/c201a/v1/1234/No0027/IZ.W.218.18P9EC