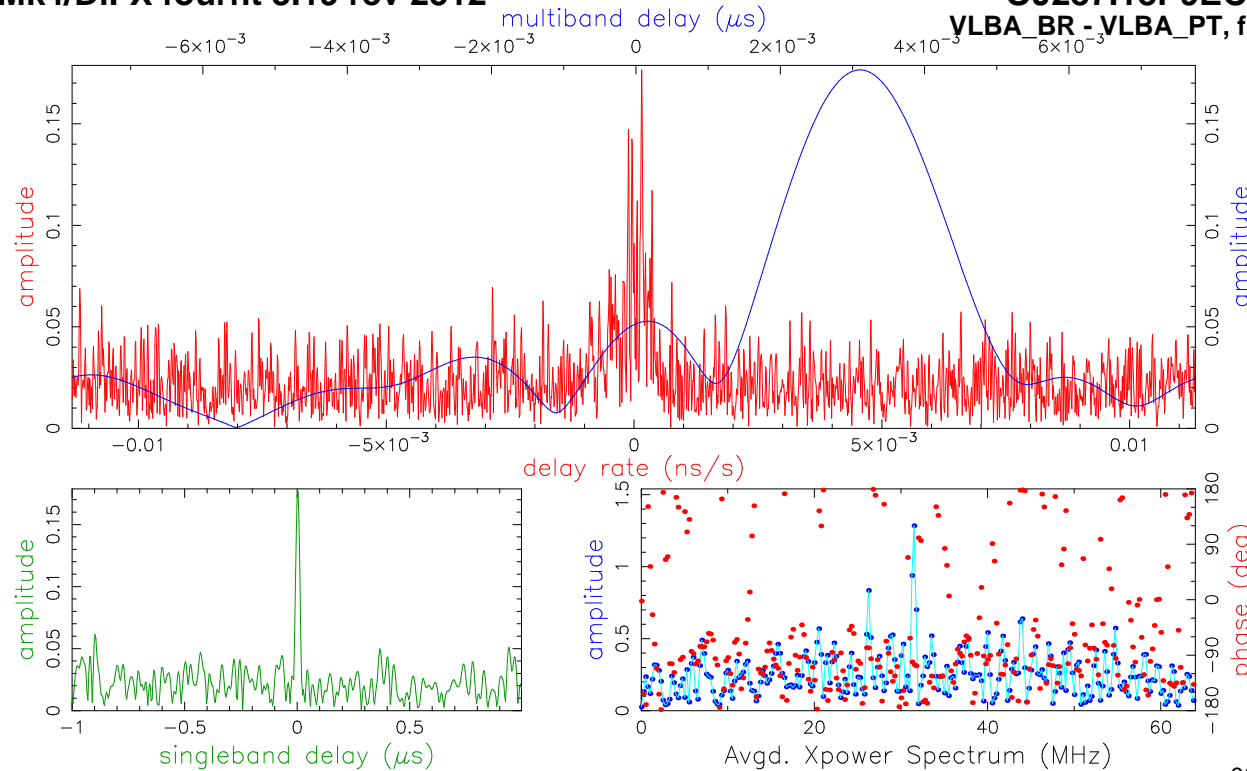


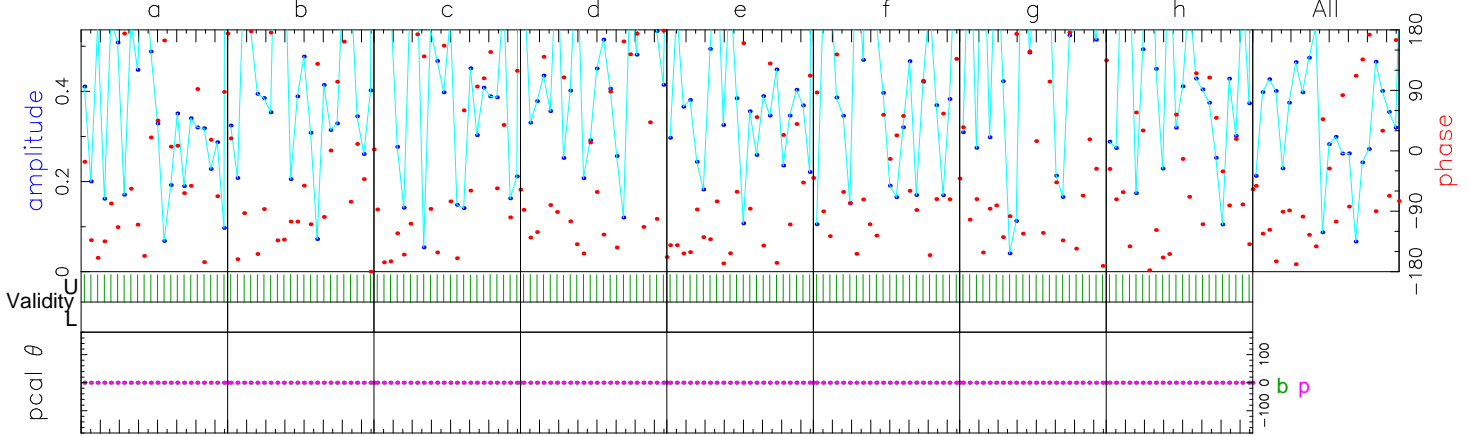
Mk4/DiFX fourfit 3.19 rev 2512

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



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

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

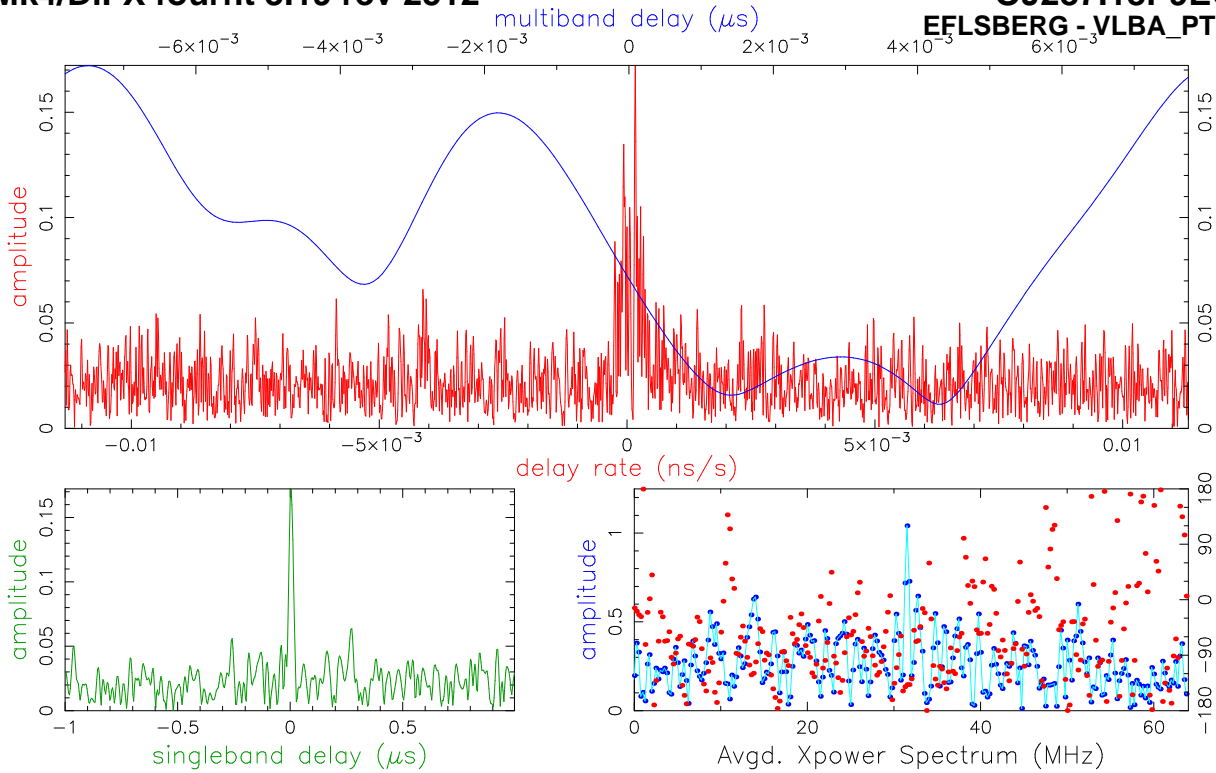


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.1	-120.6	-140.3	-129.1	-127.2	-114.3	-113.3	-102.4	Phase	-118.6
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	358.7	258.8	256.4	257.5	257.6	257.0	257.2	446.3	Sbd box	257.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0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

ph/seg (deg) 79.2 26.9 Search (2048X32) 0.175 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 107.2 47.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.6 15.9 Inc. seg. avg. 0.296 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.5 27.7 Inc. frq. avg. 0.175 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bp.W.14.18P9EC

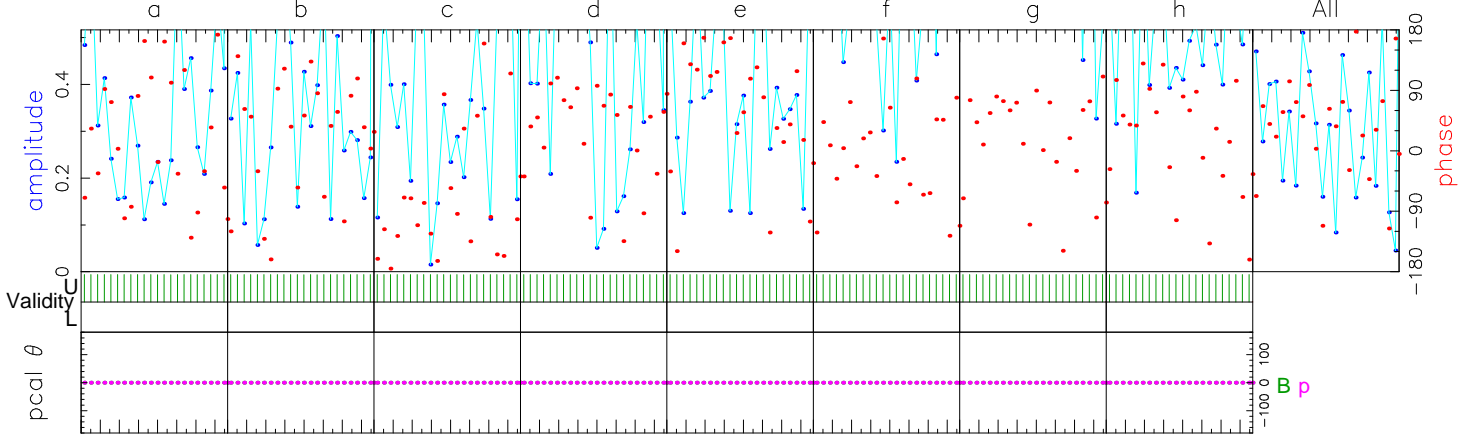
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Bp
EFLSBERG - VLBA_PT, fgroup W, pol LL



Fringe quality 9
 SNR 9.9
 Int time 438.703
 Amp 0.172
 Phase 41.5
 PFD 2.5e-14
 Delays (us)
 SBD 0.003466
 MBD -0.007464
 Fringe rate (Hz) 0.014035
 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
 2020:197:120753
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

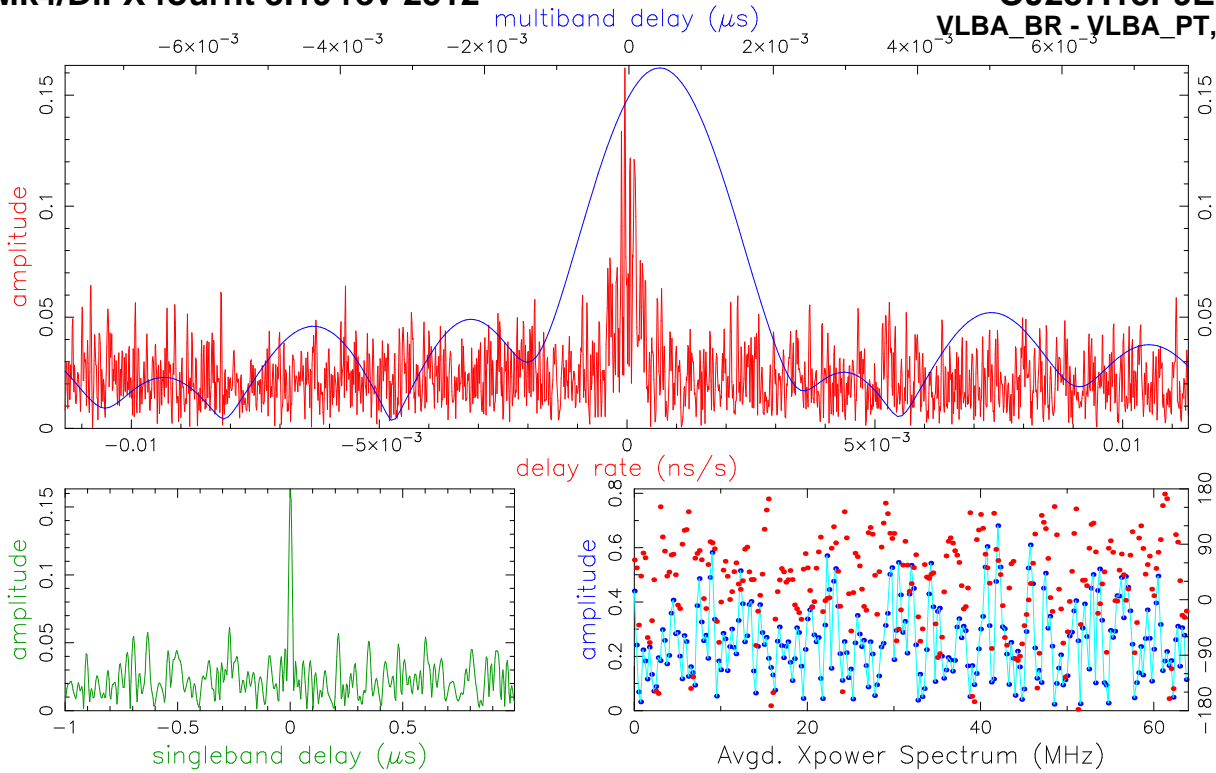
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.4	76.2	-133.5	42.9	107.4	-0.1	43.5	56.0	Phase	41.5
	0.1	0.1	0.2	0.3	0.2	0.4	0.6	0.2	Ampl.	0.2
	89.6	300.1	259.7	259.8	260.4	259.3	258.1	253.8	Sbd box	257.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.19594858852E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		-7.46360E-03	+/- 1.1E-04
Sband delay (usec)	-5.19595328392E+03		Apriori clock (usec)		-4.1999941E+00		Resid sbdelay (usec)		3.46600E-03	+/- 8.7E-04
Phase delay (usec)	-5.19595674858E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		1.33986E-06	+/- 3.7E-07
Delay rate (us/s)	-1.73882333862E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.62934E-07	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		41.5	+/- 11.6

	RMS	Theor.	Amplitude	0.172 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	73.8	27.9	Search (2048X32)	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	111.3	48.6	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	82.8	16.4	Inc. seg. avg.	0.269	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	93.7	28.7	Inc. frq. avg.	0.230	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 265.9 el 29.7 pa 42.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10654.966 2697.060 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bp.W.17.18P9EC

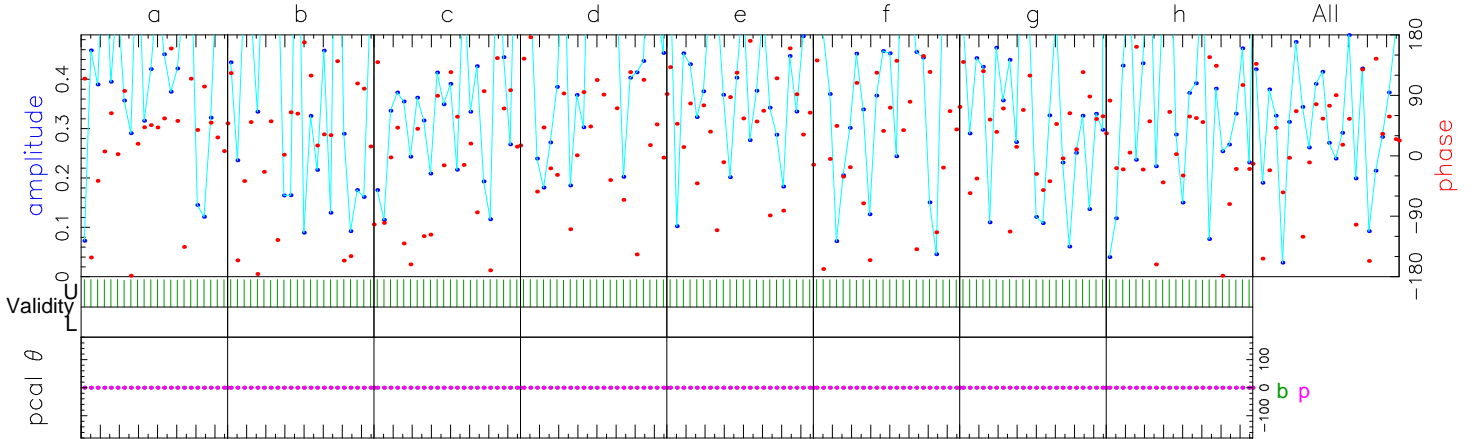


Fringe quality 9

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

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

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

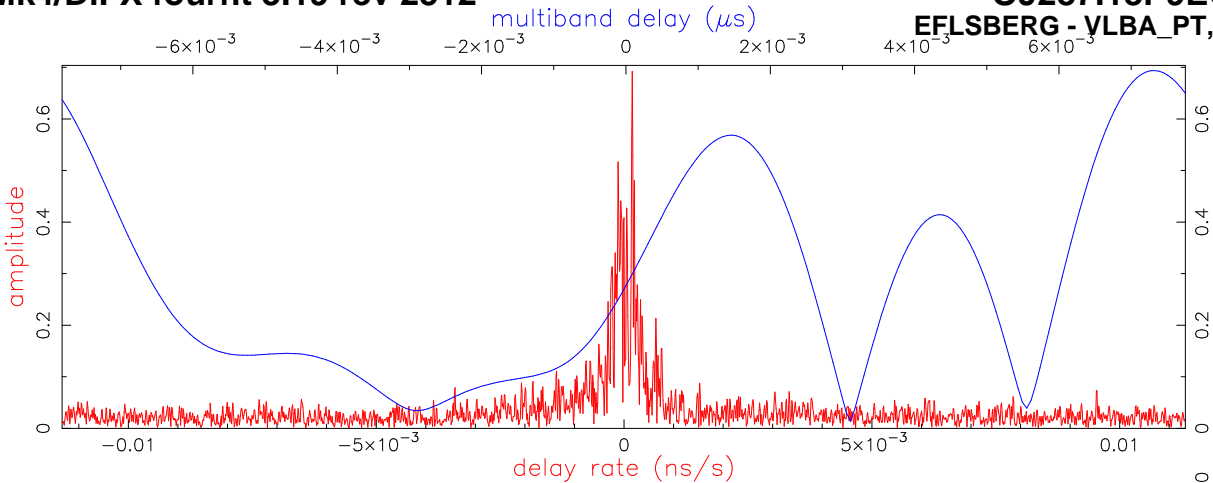


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	43.7	66.6	44.7	67.7	66.5	72.3	52.8	30.7	Phase	55.4
	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.2
	257.7	411.6	178.1	256.8	257.1	215.3	162.9	256.7	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.01500084593E+03		Apriori delay (usec)		-3.01500130460E+03		Resid mbdelay (usec)		4.58675E-04	+/- 1.2E-04
Sband delay (usec)	-3.01500025060E+03		Apriori clock (usec)		-1.8660257E+01		Resid sbdelay (usec)		1.05400E-03	+/- 9.2E-04
Phase delay (usec)	-3.01500130282E+03		Apriori clockrate (us/s)		-2.4588659E-07		Resid phdelay (usec)		1.78700E-06	+/- 4.0E-07
Delay rate (us/s)	-4.76561066375E-02		Apriori rate (us/s)		-4.76560651317E-02		Resid rate (us/s)		-4.15059E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.29284413475E-05		Resid phase (deg)		55.4	+/- 12.3

ph/seg (deg) 83.2 29.5 Search (2048X32) 0.159 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 120.7 51.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.1 17.4 Inc. seg. avg. 0.279 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.4 30.3 Inc. frq. avg. 0.160 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 ion window (TEC) 0.00 0.00
 simultaneous interpolator

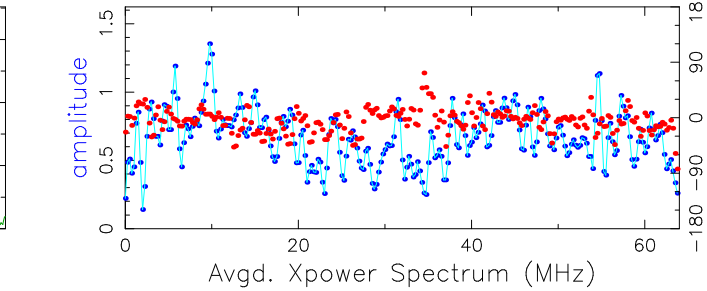
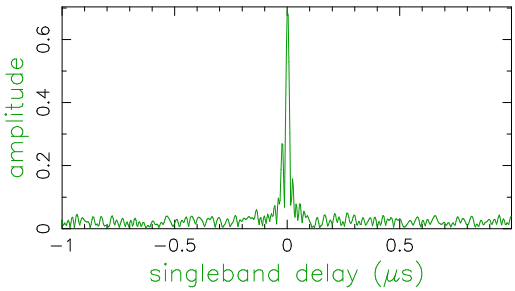
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Bp
EFLSBERG - VLBA_PT, fgroup W, pol RR



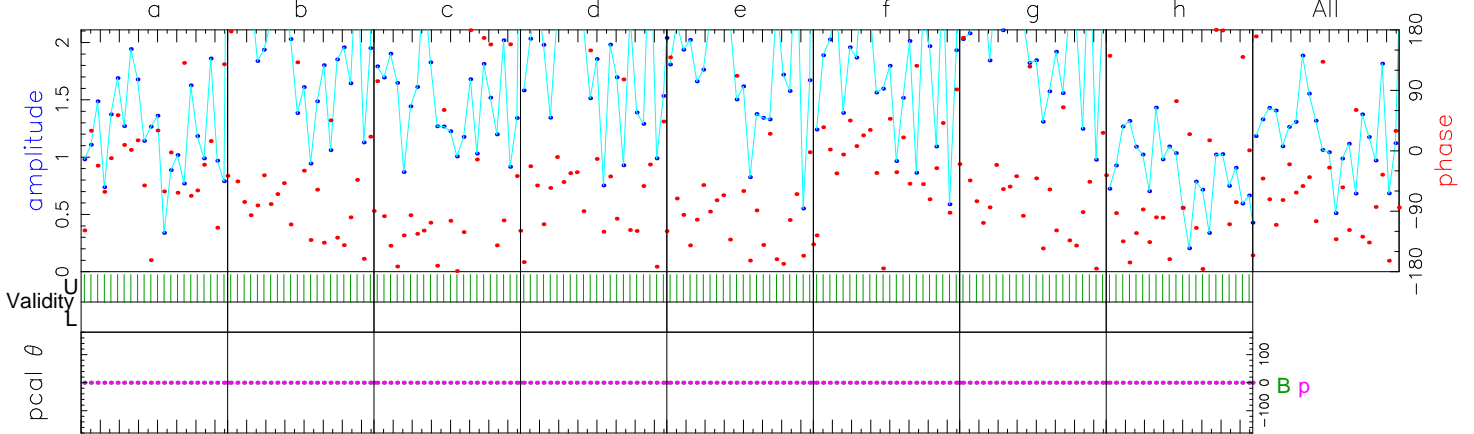
Fringe quality 3

SNR 40.3
Int time 438.704
Amp 0.704
Phase -73.2
PFD 0.0e+00
Delays (us)
SBD 0.001537
MBD 0.007397
Fringe rate (Hz)
0.013905
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
2020:197:120757
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

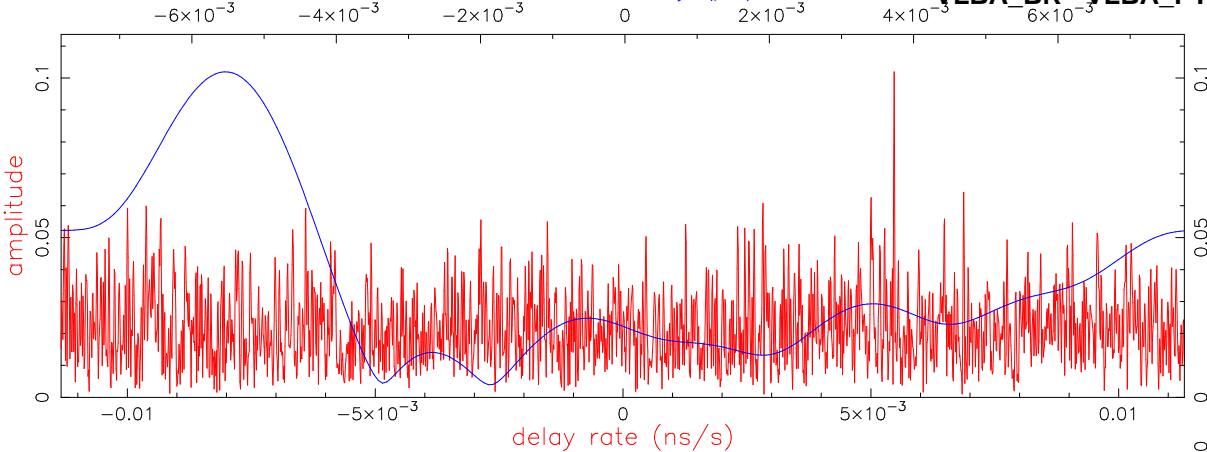
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.19594935255E+03				-5.19595674992E+03				7.39737E-03	+/- 2.7E-05
Sband delay (usec)	-5.19595521267E+03				-4.1999941E+00				1.53725E-03	+/- 2.1E-04
Phase delay (usec)	-5.19595675228E+03				-4.0388659E-07				-2.35948E-06	+/- 9.2E-08
Delay rate (us/s)	-1.73882334013E+00				-1.73882350155E+00				1.61424E-07	+/- 3.6E-10
Total phase (deg)			-230.8		3.56570810416E-05				-73.2	+/- 2.8
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)										
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)	66.9	6.8			0.661					
amp/seg (%)	84.1	11.9			0.000					
ph/frq (deg)	54.8	4.0			1.189					
amp/frq (%)	47.6	7.0			0.945					
B: az 265.9 el 29.7 pa 42.5										
p: az 96.0 el 45.7 pa -60.9										
u,v (fr/asec)					10654.966	2697.060				
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/Bp.W.36.18P9EC										

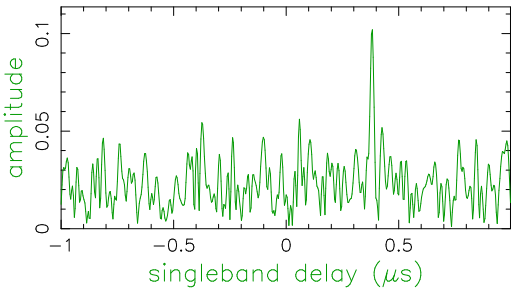
simultaneous interpolator

multiband delay (μs)

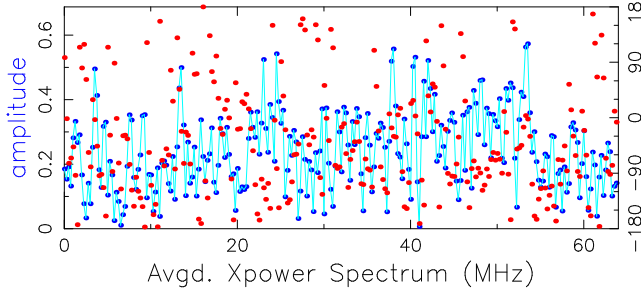


Fringe quality 0

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

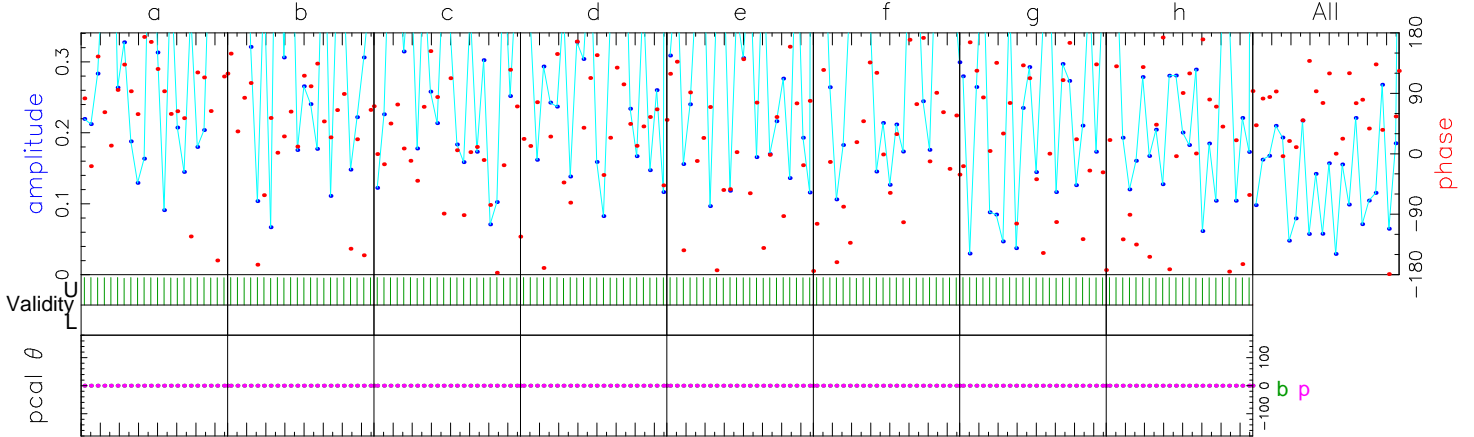


delay rate (ns/s)



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

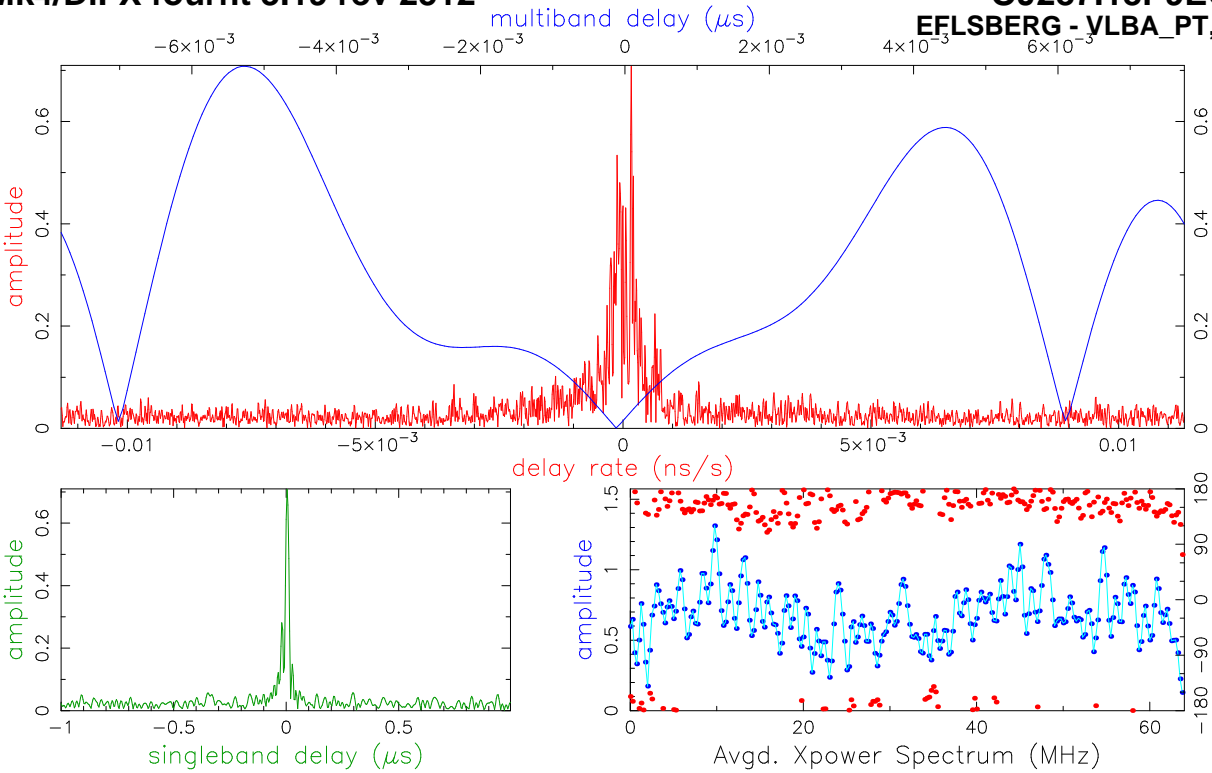
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-3.01461619588E+03								Resid mbdelay (usec)	-5.51628E-03 +/- 1.8E-04
Sband delay (usec)	-3.01461990585E+03								Resid sbdelay (usec)	3.81399E-01 +/- 1.5E-03
Phase delay (usec)	-3.01500130246E+03								Resid phdelay (usec)	2.14749E-06 +/- 6.3E-07
Delay rate (us/s)	-4.76505864564E-02								Resid rate (us/s)	5.47868E-06 +/- 2.5E-09
Total phase (deg)			-69.7						Resid phase (deg)	66.6 +/- 19.5
	RMS	Theor.	Amplitude	0.114 +/- 0.019					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	47.7	46.7	Search (2048X32)	0.100					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.1	81.5	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	29.8	27.5	Inc. seg. avg.	0.110					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	55.6	48.1	Inc. frq. avg.	0.111					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
b: az 99.1 el 35.1 pa -44.6			p: az 96.0 el 45.7 pa -60.9						u,v (fr/asec) 326.278 2162.030	simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

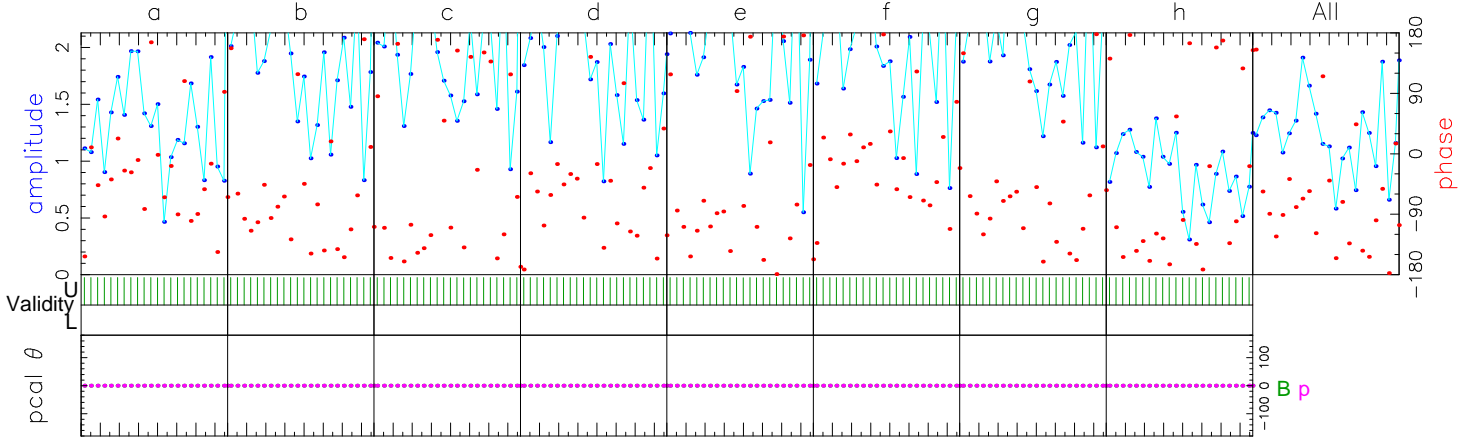
OJ287.18P9EC, No0027, Bp
EFLSBERG - VLBA_PT, fgroup W, pol LR



Fringe quality 3

SNR 40.6
Int time 438.704
Amp 0.710
Phase -89.0
PFD 0.0e+00
Delays (us)
SBD 0.004508
MBD -0.005241
Fringe rate (Hz)
0.013899
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"

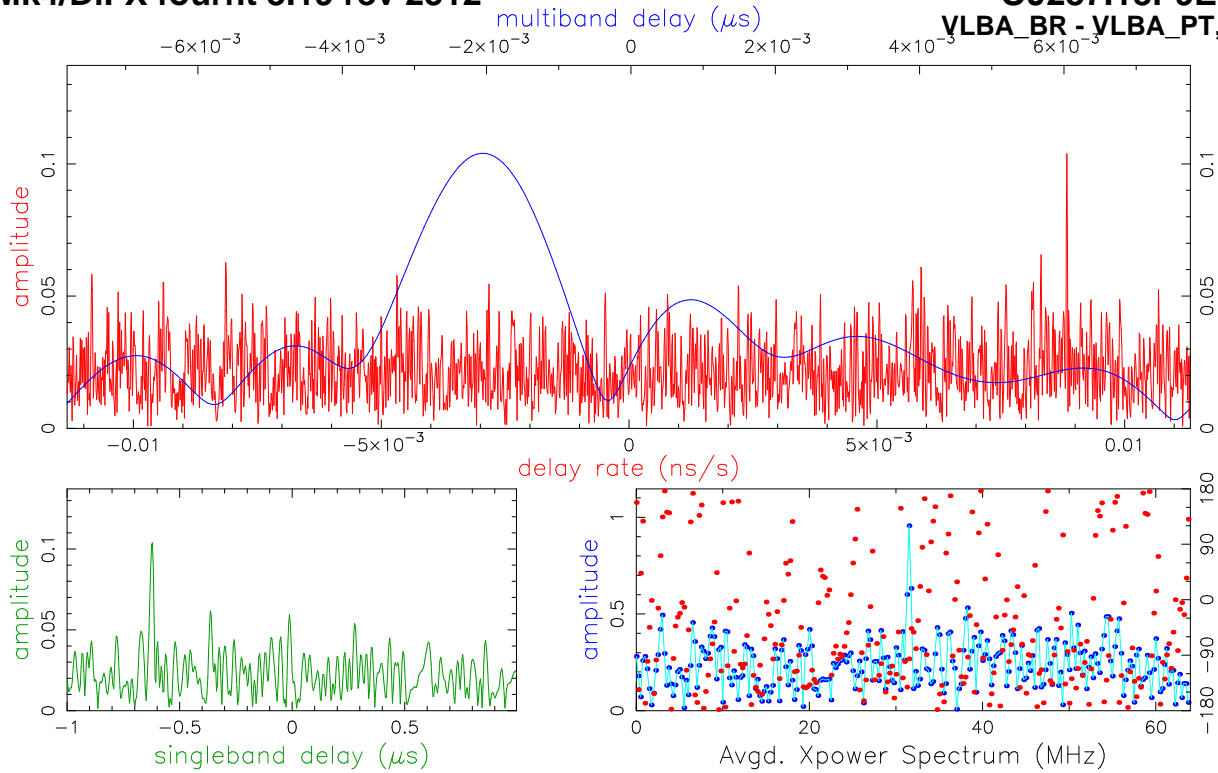
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-42.1	-96.7	-158.7	-59.4	-115.3	-14.4	-88.5	-150.3	Phase	-89.0
	0.7	1.2	1.1	1.1	1.1	1.2	1.1	0.6	Ampl.	1.0
	255.0	257.4	258.7	258.7	258.9	258.6	257.4	253.1	Sbd box	258.2
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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.19594636552E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		-5.24060E-03	+/- 2.7E-05
Sband delay (usec)	-5.19595224167E+03		Apriori clock (usec)		-4.1999941E-07		Resid sbdelay (usec)		4.50825E-03	+/- 2.1E-04
Phase delay (usec)	-5.19595675279E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		-2.87146E-06	+/- 9.1E-08
Delay rate (us/s)	-1.73882334020E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.61353E-07	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		-89.0	+/- 2.8

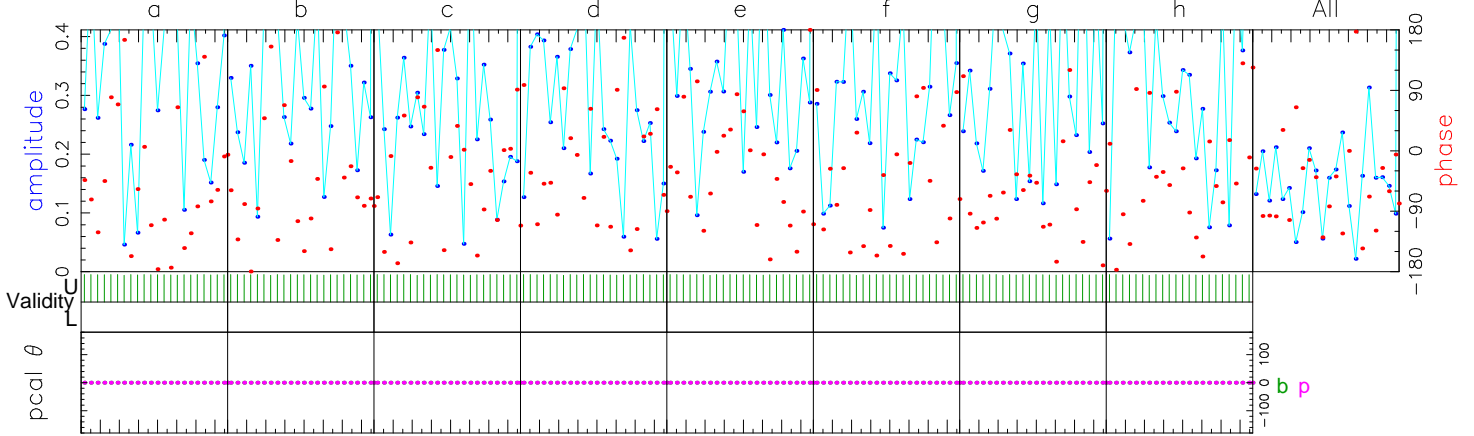
	RMS	Theor.	Amplitude	0.710 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	67.2	6.8	Search (2048X32)	0.673	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	88.0	11.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	54.8	4.0	Inc. seg. avg.	1.230	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	52.0	7.0	Inc. frq. avg.	1.000	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 265.9 el 29.7 pa 42.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10654.966 2697.060 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bp.W.57.18P9EC



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

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



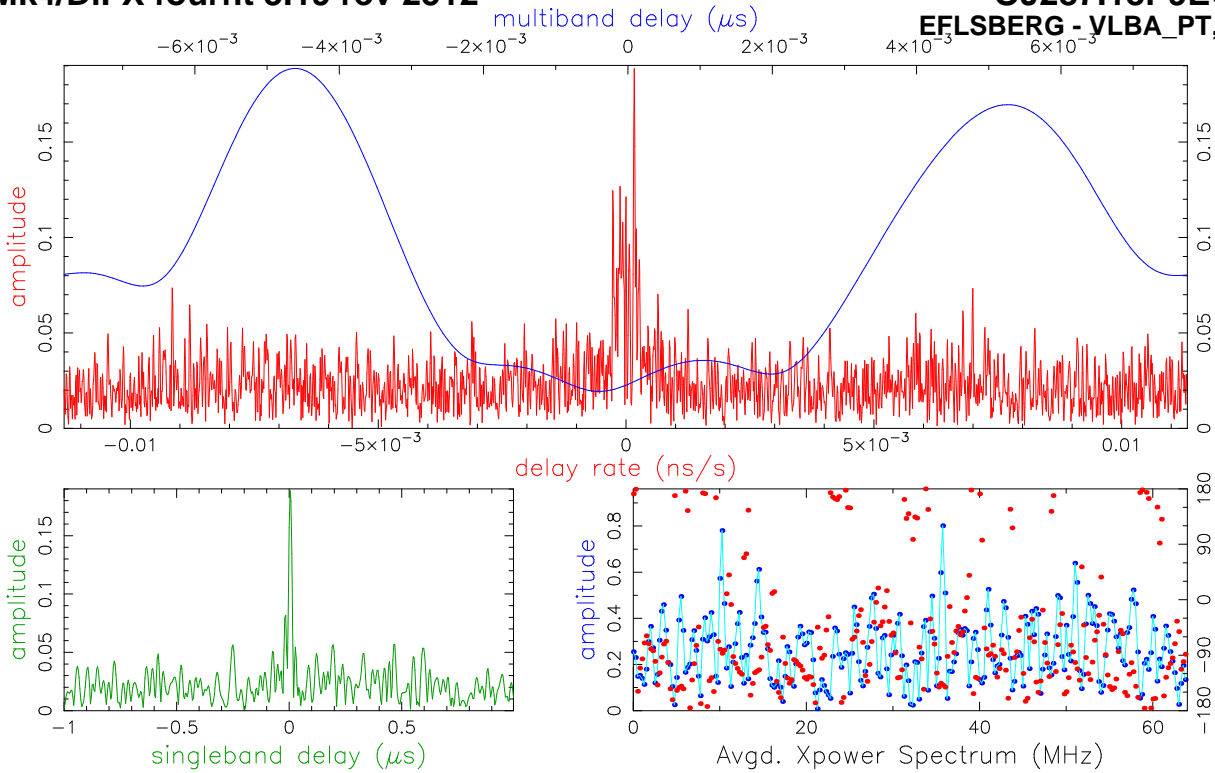
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-80.7	-97.6	-39.6	-54.7	-24.5	-110.9	-74.9	-62.8	Phase	-67.0
	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	258.2	347.4	32.6	442.6	198.2	42.2	97.8	451.6	Sbd box	97.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0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

	RMS	Theor.	Amplitude	0.137 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.4	45.7	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	87.7	79.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	31.2	27.0	Inc. seg. avg.	0.149	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	28.3	47.0	Inc. frq. avg.	0.135	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 99.1 el 35.1 pa -44.6 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 326.278 2162.030 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/bp.W.70.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Bp
EFLSBERG - VLBA_PT, fgroup W, pol RL

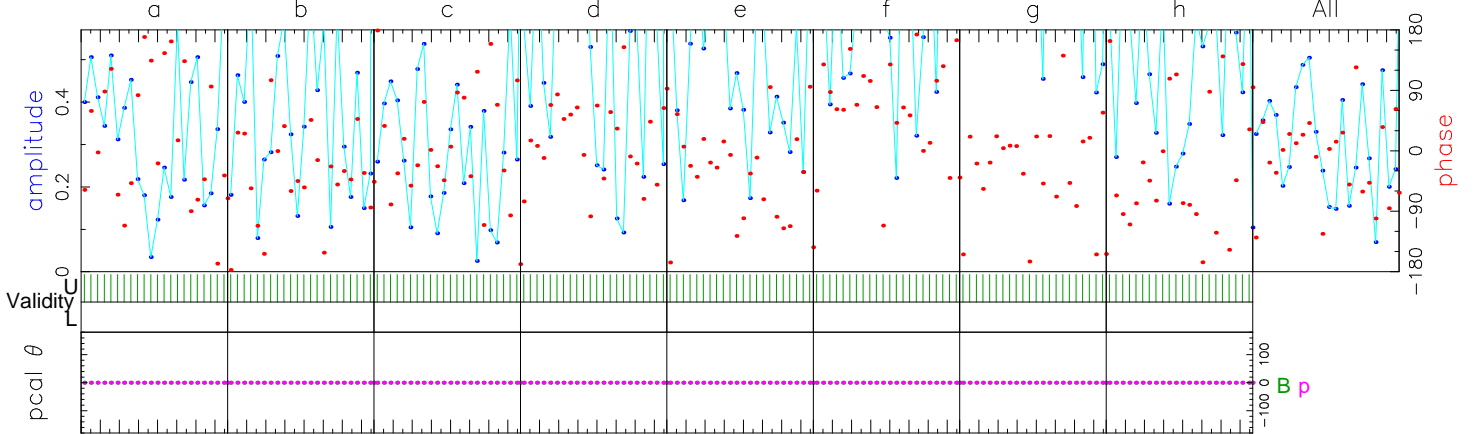


Fringe quality 9

SNR 10.9
Int time 438.703
Amp 0.190
Phase 1.1
PFD 5.9e-19
Delays (us)
SBD 0.005021
MBD -0.004558
Fringe rate (Hz) 0.013996
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
2020:197:120806
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

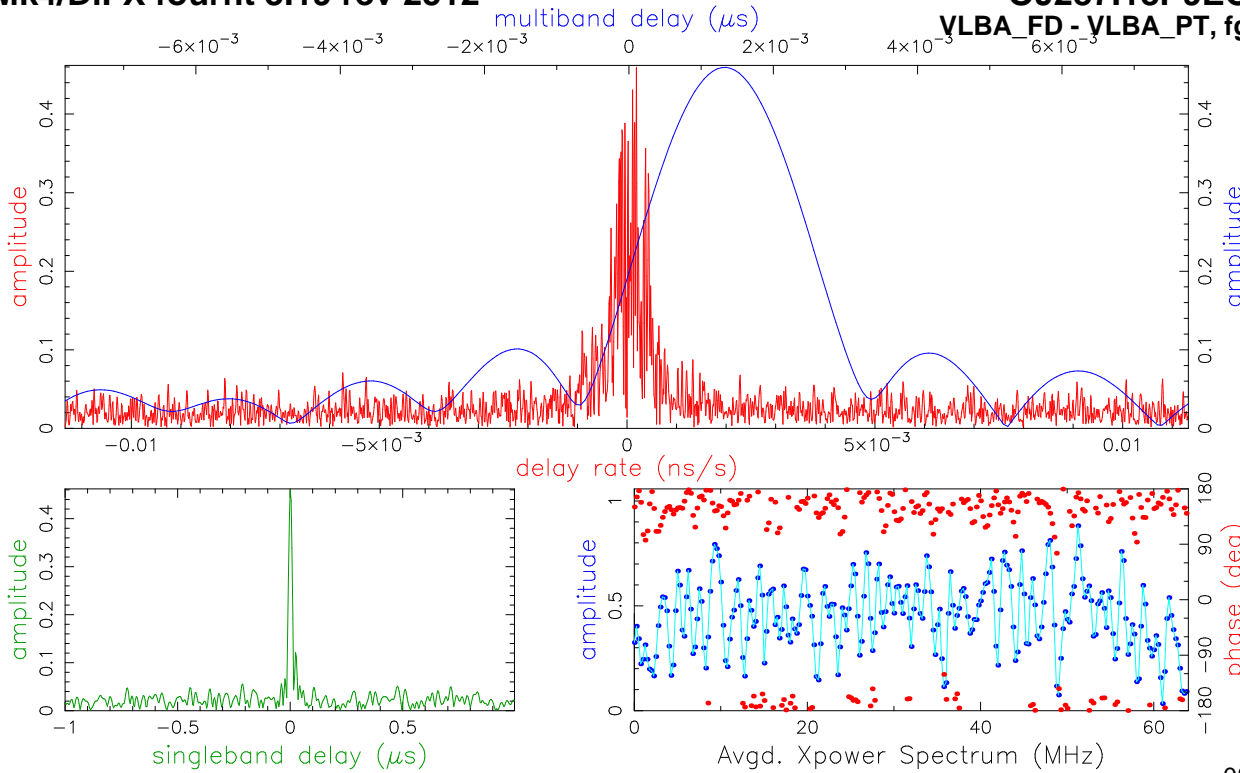


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.3	-16.3	-12.3	23.7	-25.4	84.6	-10.0	-86.4	Phase	1.1
	0.1	0.2	0.1	0.4	0.2	0.3	0.6	0.2	Ampl.	0.2
	88.5	299.7	377.7	258.8	259.7	258.7	257.7	253.2	Sbd box	258.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.19594568336E+03		Apriori delay (usec)		-5.19595674992E+03		Resid mbdelay (usec)		-4.55844E-03	+/- 1.0E-04
Sband delay (usec)	-5.19595172942E+03		Apriori clock (usec)		-4.1999941E+00		Resid sbdelay (usec)		5.02050E-03	+/- 7.9E-04
Phase delay (usec)	-5.19595674988E+03		Apriori clockrate (us/s)		-4.0388659E-07		Resid phdelay (usec)		3.46425E-08	+/- 3.4E-07
Delay rate (us/s)	-1.73882333908E+00		Apriori rate (us/s)		-1.73882350155E+00		Resid rate (us/s)		1.62475E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		3.56570810416E-05		Resid phase (deg)		1.1	+/- 10.5

ph/seg (deg) 62.6 25.2 Search (2048X32) 0.180 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.4 44.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 53.8 14.9 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 87.9 26.0 Inc. frq. avg. 0.247 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 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10654.966 2697.060 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Bp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Bp.W.74.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fp
VLBA_FD - VLBA_PT, fgroup W, pol RR

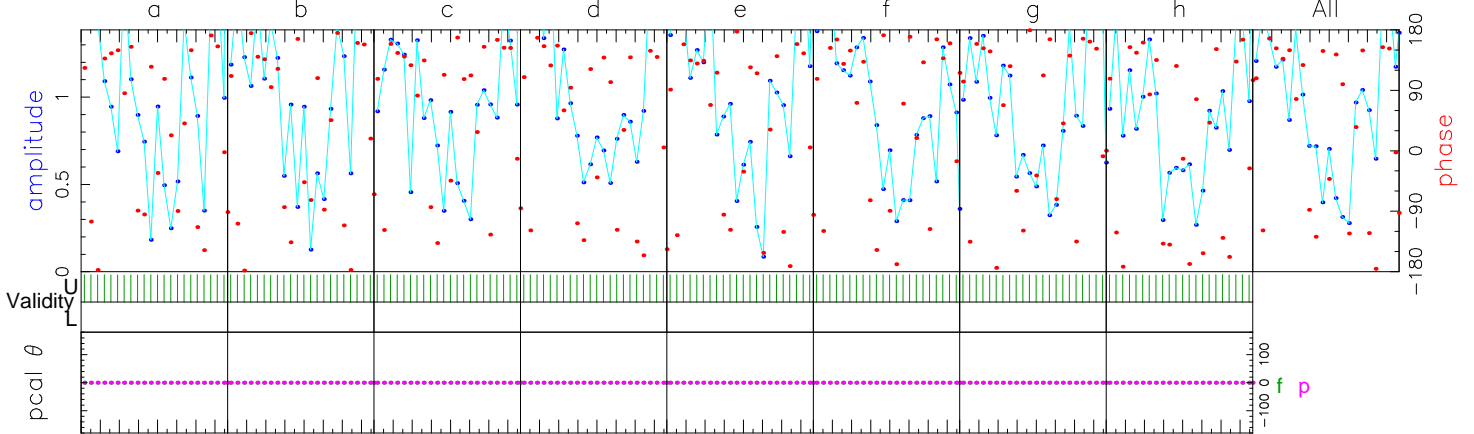


Fringe quality 7

SNR 26.3
Int time 434.394
Amp 0.462
Phase 153.8
PFD 0.0e+00
Delays (us)
SBD 0.000935
MBD 0.001345
Fringe rate (Hz) 0.016430
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

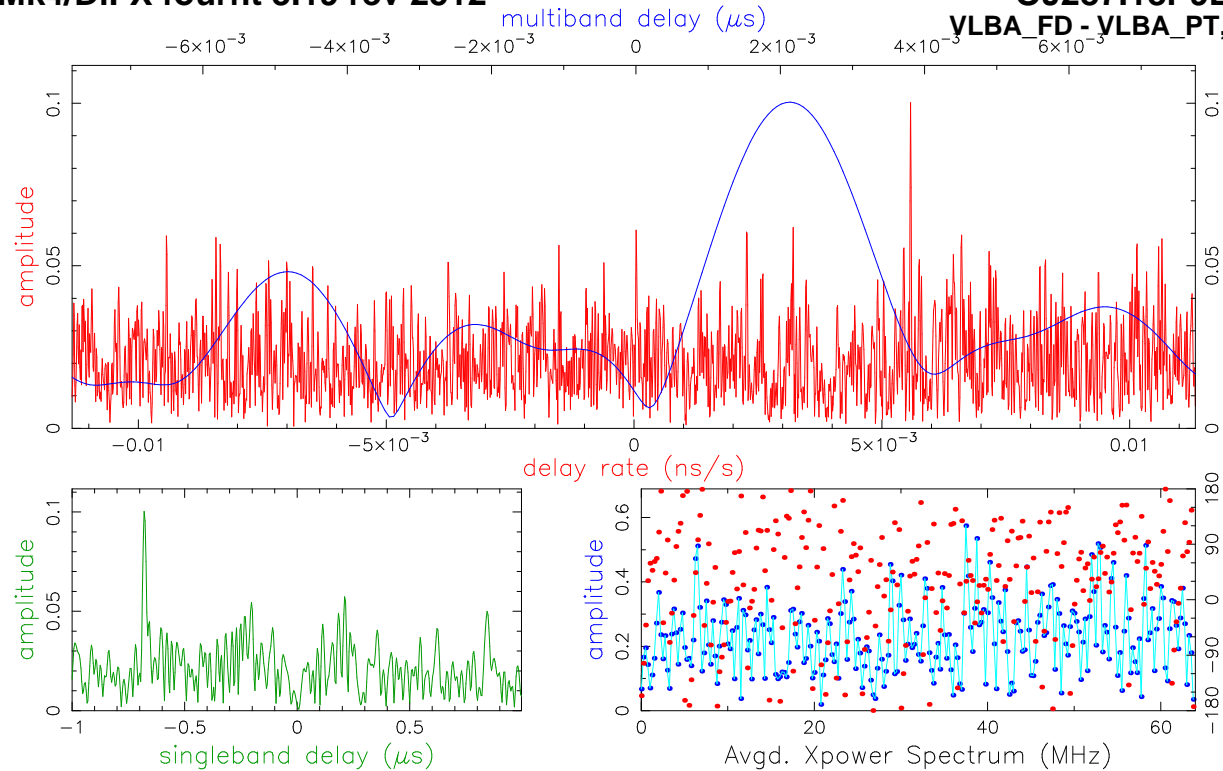
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120815
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	160.9	161.8	152.4	146.1	143.4	155.0	154.3	159.3		
Sband delay (usec)	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5		
Phase delay (usec)	257.2	257.2	256.7	257.5	256.7	257.5	257.4	257.8		
Delay rate (us/s)			-2.92071876276E-02							
Total phase (deg)			257.1							
Apriori delay (usec)						9.41544709624E+02			1.34458E-03	+/- 4.1E-05
Apriori clock (usec)						-1.3370643E+01			9.35250E-04	+/- 3.3E-04
Apriori clockrate (us/s)						-9.488658E-08			4.95993E-06	+/- 1.4E-07
Apriori rate (us/s)						-2.92073783657E-02			1.90738E-07	+/- 5.5E-10
Apriori accel (us/s/s)						-7.16443948397E-06			153.8	+/- 4.4
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 74.0 10.4 Search (2048X32) 0.443 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 137.8 18.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 7.3 6.2 Inc. seg. avg. 0.947 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.4 10.7 Inc. frq. avg. 0.460 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 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 166.802 -655.675 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.107.18P9EC

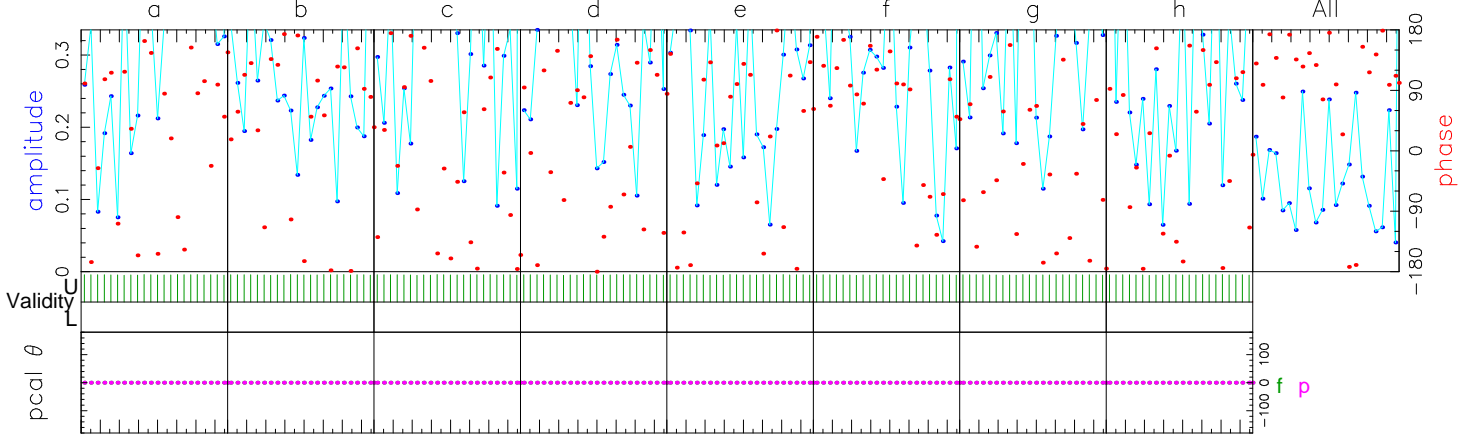


Fringe quality 0

SNR 5.7
Int time 434.394
Amp 0.112
Phase 138.5
PFD 9.0e-01
Delays (us)
SBD -0.678755
MBD 0.002169
Fringe rate (Hz)
0.481656
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
2020:197:120820
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



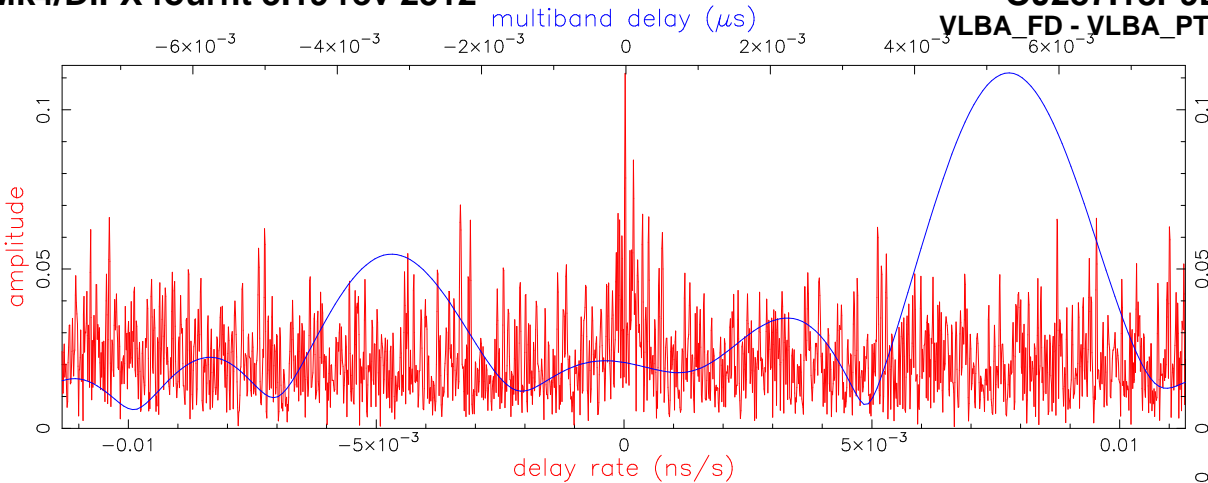
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	134.5	119.4	-169.9	133.3	146.2	130.8	-133.3	117.6	Phase	138.5
	0.2	0.2	0.1	0.1	0.1	0.2	0.0	0.1	Ampl.	0.1
	84.4	295.9	48.0	322.8	122.9	82.5	489.9	379.0	Sbd box	83.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.40859378205E+02	Apriori delay (usec)		9.41544709624E+02	Resid mbdelay (usec)		2.16858E-03	+/- 1.9E-04	
Sband delay (usec)	9.40865955124E+02	Apriori clock (usec)		-1.3370643E+01	Resid sbdelay (usec)		-6.78755E-01	+/- 1.5E-03	
Phase delay (usec)	9.41544714092E+02	Apriori clockrate (us/s)		-9.4886582E-08	Resid phdelay (usec)		4.46764E-06	+/- 6.4E-07	
Delay rate (us/s)	-2.92017868158E-02	Apriori rate (us/s)		-2.92073783657E-02	Resid rate (us/s)		5.59155E-06	+/- 2.5E-09	
Total phase (deg)	241.9	Apriori accel (us/s/s)		-7.16443948397E-06	Resid phase (deg)		138.5	+/- 19.9	

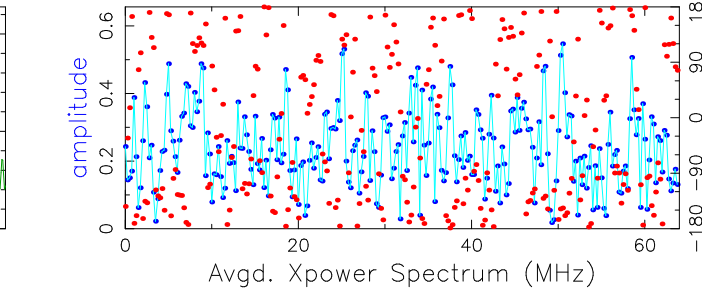
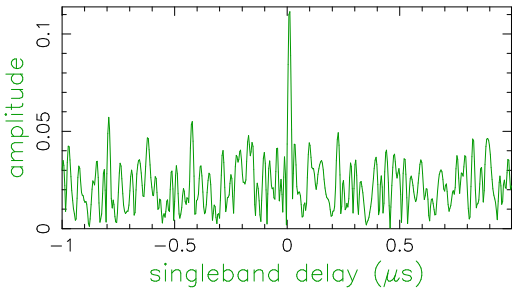
ph/seg (deg)	41.3	47.8	Amplitude	0.112 +/- 0.019	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	72.5	83.5	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
ph/frq (deg)	43.6	28.2	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.008	0.008
amp/frq (%)	41.9	49.2	Inc. seg. avg.	0.106	Sample rate(MISamp/s): 128		dr window (ns/s)		-0.011	0.011
			Inc. frq. avg.	0.109	Data rate(Mb/s): 2048		nlags: 256		t_cohere infinite	

f: az 94.6 el 49.5 pa -66.0 p: az 96.0 el 45.7 pa -60.9 u, v (fr/asec) 166.802 -655.675 simultaneous interpolator

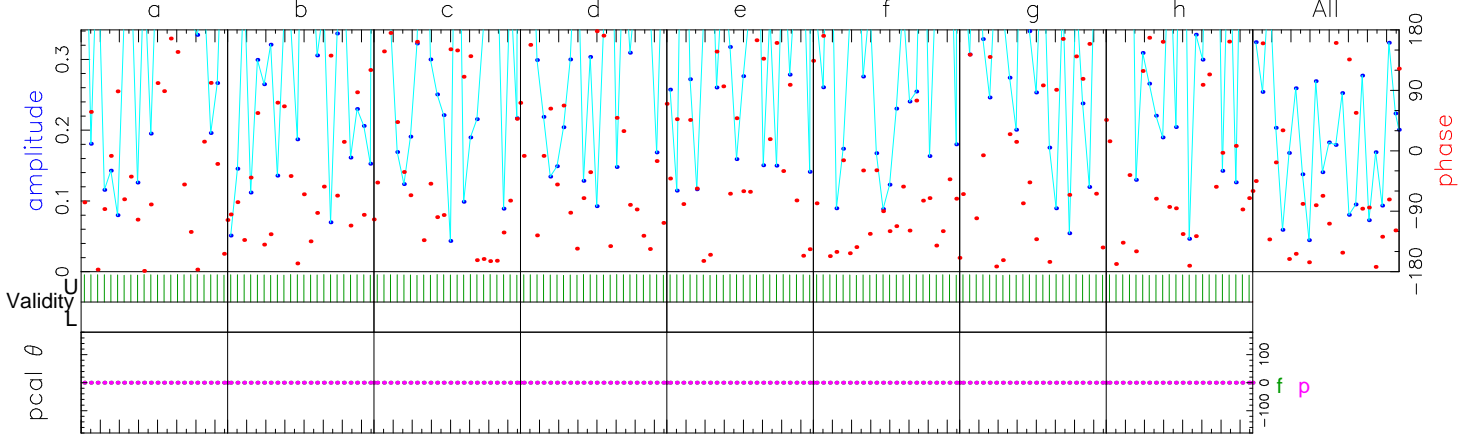
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.125.18P9EC



Fringe quality 0
SNR 6.5
Int time 434.393
Amp 0.114
Phase -114.3
PFD 2.3e-02
Delays (us)
SBD 0.010002
MBD 0.005254
Fringe rate (Hz) 0.001805
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



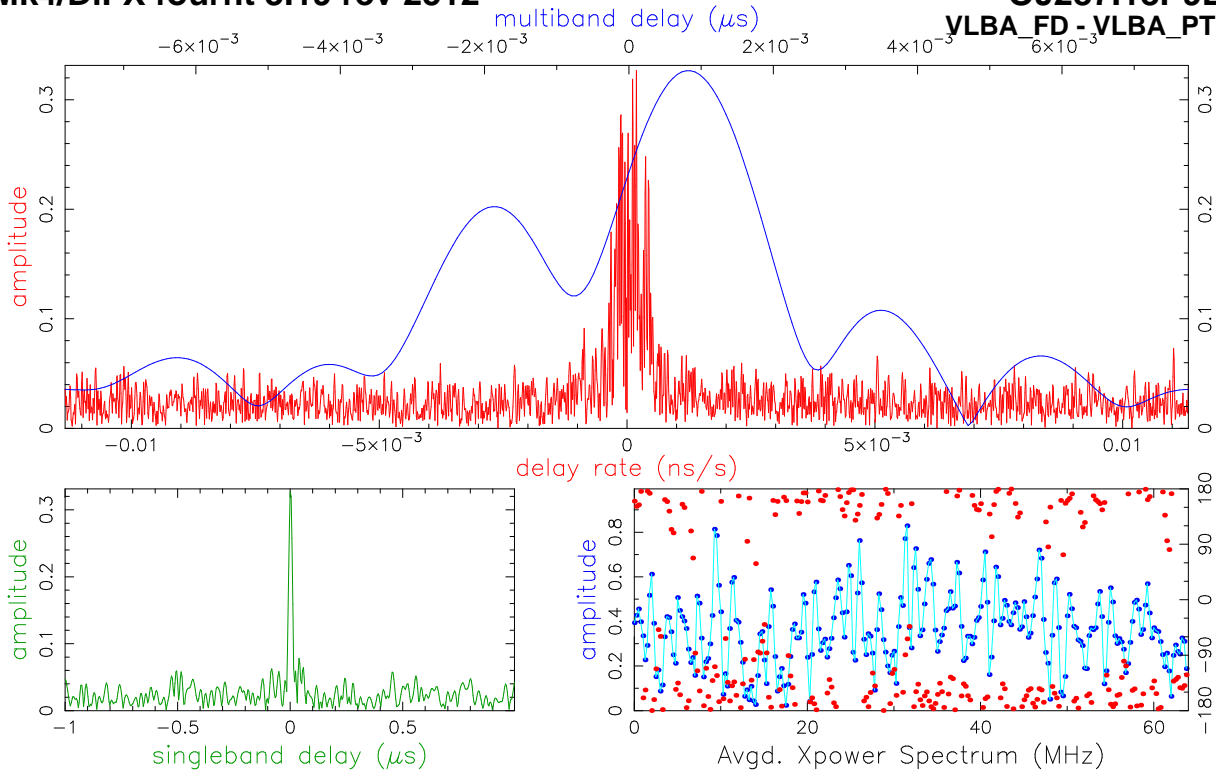
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.1	-79.3	-155.1	-110.5	-110.0	-103.9	-132.9	-105.3	Phase	-114.3
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	134.7	119.9	9.3	444.8	55.6	259.4	127.0	243.9	Sbd box	259.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.41549963177E+02		Apriori delay (usec)		9.41544709624E+02		Resid mbdelay (usec)		5.25355E-03	+/- 1.7E-04
Sband delay (usec)	9.41554711374E+02		Apriori clock (usec)		-1.3370643E+01		Resid sbdelay (usec)		1.00017E-02	+/- 1.3E-03
Phase delay (usec)	9.41544705939E+02		Apriori clockrate (us/s)		-9.4886582E-08		Resid phdelay (usec)		-3.68484E-06	+/- 5.7E-07
Delay rate (us/s)	-2.92073574150E-02		Apriori rate (us/s)		-2.92073783657E-02		Resid rate (us/s)		2.09506E-08	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.16443948397E-06		Resid phase (deg)		-114.3	+/- 17.6

	RMS	Theor.	Amplitude	0.114 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	71.1	42.3	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	108.9	73.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	24.3	25.0	Inc. seg. avg.	0.151	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.5	43.6	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

f: az 94.6 el 49.5 pa -66.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 166.802 -655.675 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.152.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, fp
VLBA_FD - VLBA_PT, fgroup W, pol LL

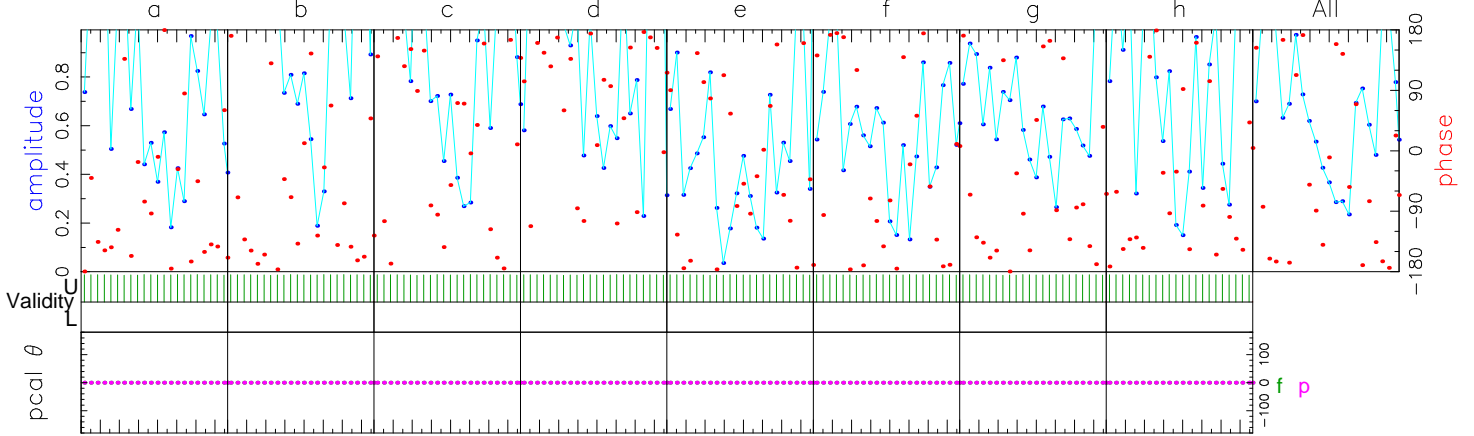


Fringe quality 8

SNR 18.9
Int time 434.394
Amp 0.331
Phase -162.1
PFD 0.0e+00
Delays (us)
SBD 0.001540
MBD 0.000840
Fringe rate (Hz)
0.016414
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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	9.41545549951E+02	Apriori delay (usec)		9.41544709624E+02	Resid mbdelay (usec)		8.40327E-04	+/-	5.7E-05	
Sband delay (usec)	9.41546249374E+02	Apriori clock (usec)		-1.3370643E+01	Resid sbdelay (usec)		1.53975E-03	+/-	4.6E-04	
Phase delay (usec)	9.41544704397E+02	Apriori clockrate (us/s)		-9.4886582E-08	Resid phdelay (usec)		-5.22757E-06	+/-	2.0E-07	
Delay rate (us/s)	-2.92071878133E-02	Apriori rate (us/s)		-2.92073783657E-02	Resid rate (us/s)		1.90552E-07	+/-	7.7E-10	
Total phase (deg)		-58.8	Apriori accel (us/s/s)		-7.16443948397E-06	Resid phase (deg)		-162.1	+/-	6.1

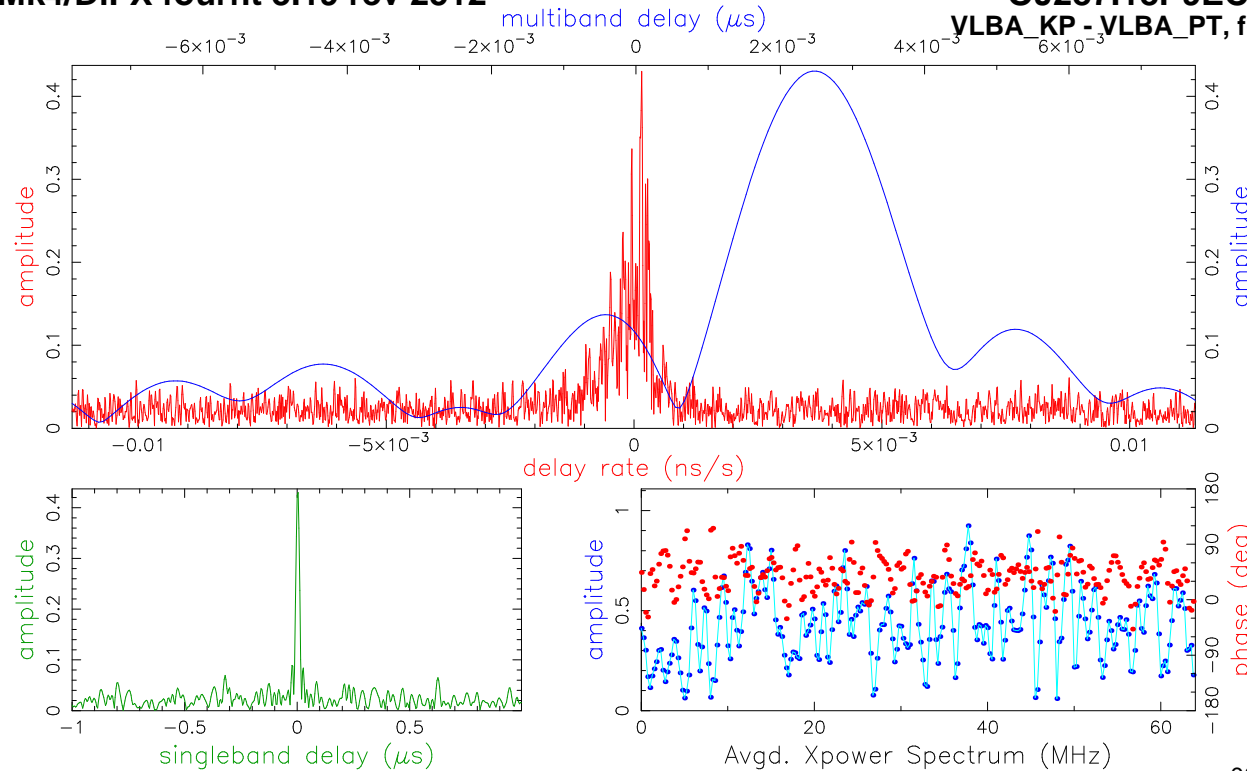
ph/seg (deg)	RMS 77.0	Theor. 14.6	Amplitude	0.331 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	134.3	25.4	Search (2048X32)	0.314	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	29.4	8.6	Inc. seg. avg.	0.665	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	33.9	15.0	Inc. frq. avg.	0.357	Data rate (Mb/s):	2048							

f: az 94.6 el 49.5 pa -66.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 166.802 -655.675 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/fp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/fp.W.86.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, kp
VLBA_KP - VLBA_PT, fgroup W, pol LL

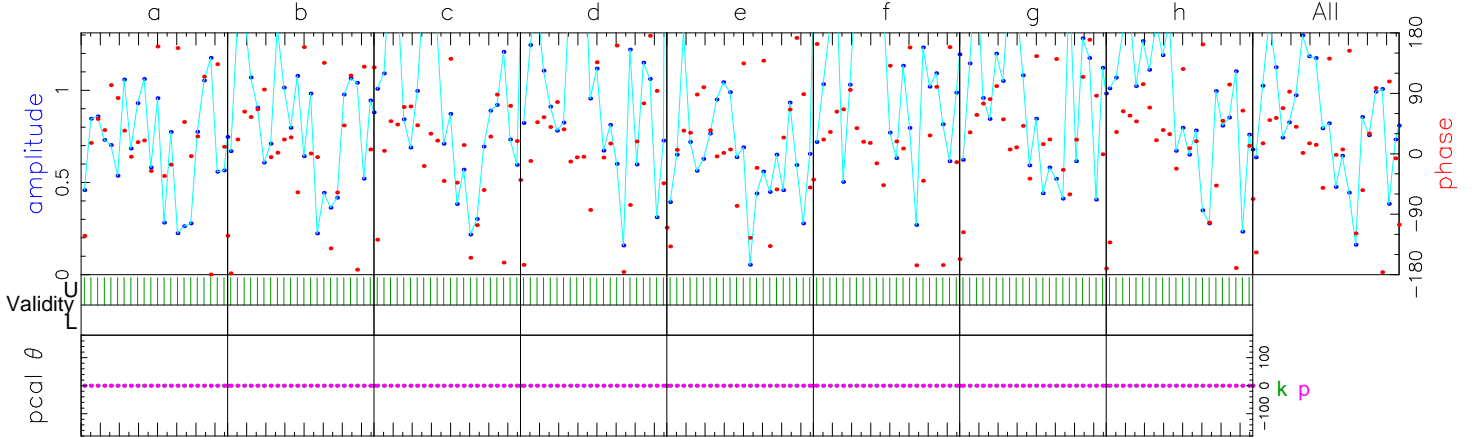


Fringe quality 7

SNR 25.0
Int time 438.762
Amp 0.437
Phase 35.6
PFD 0.0e+00
Delays (us)
SBD 0.002255
MBD 0.002427
Fringe rate (Hz) 0.013784
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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-7.33581420586E+02	Apriori delay (usec)	-7.33583847146E+02	Resid mbdelay (usec)	2.42656E-03	+/-	4.3E-05
Sband delay (usec)	-7.33581592646E+02	Apriori clock (usec)	-1.7602436E+01	Resid sbdelay (usec)	2.25450E-03	+/-	3.4E-04
Phase delay (usec)	-7.33583845998E+02	Apriori clockrate (us/s)	-1.9848659E-07	Resid phdelay (usec)	1.14750E-06	+/-	1.5E-07
Delay rate (us/s)	7.37492150712E-02	Apriori rate (us/s)	7.37490550505E-02	Resid rate (us/s)	1.60021E-07	+/-	5.8E-10
Total phase (deg)	-177.9	Apriori accel (us/s/s)	2.48218774247E-06	Resid phase (deg)	35.6	+/-	4.6

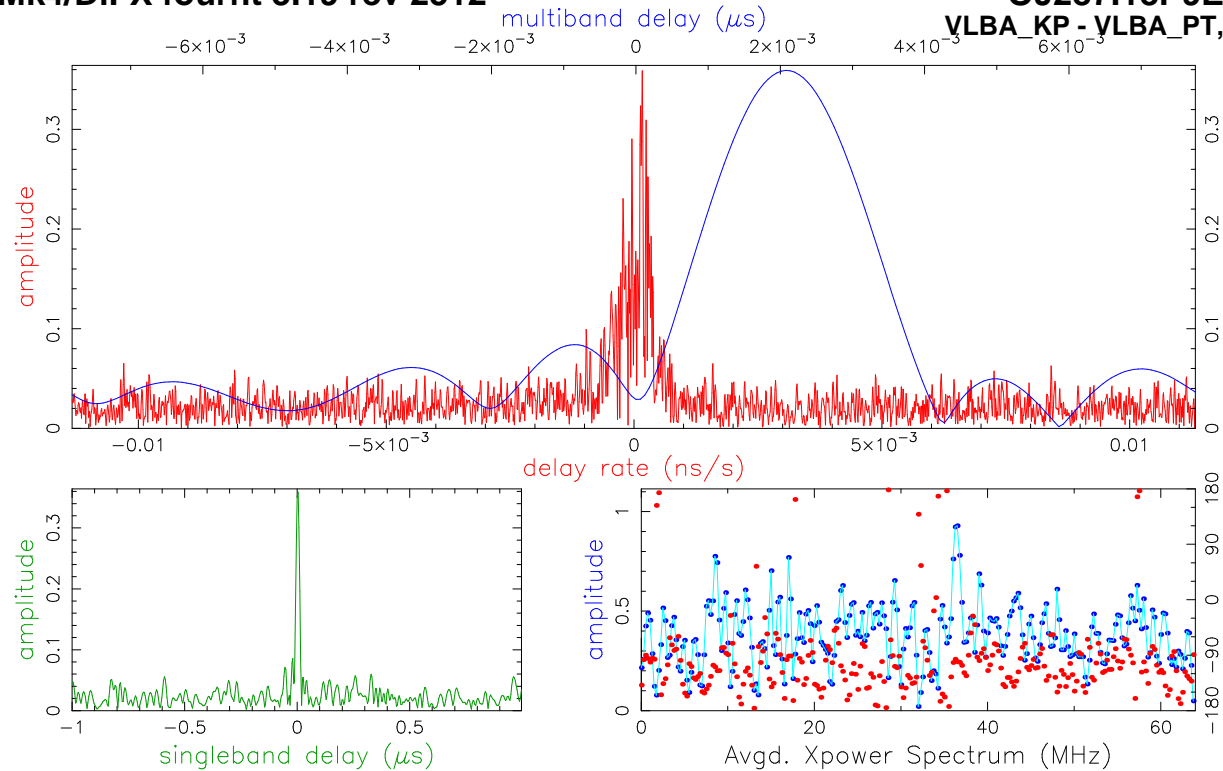
ph/seg (deg)	79.4	RMS	79.4	Theor.	11.0	Amplitude	0.437 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	114.4		11.0			Search (2048X32)	0.417	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	11.8		6.5			Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	19.3		11.3			Inc. seg. avg.	0.823	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	0.434	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

k: az 91.6 el 42.9 pa -64.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -444.966 -211.882 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/kp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/kp.W.100.18P9EC

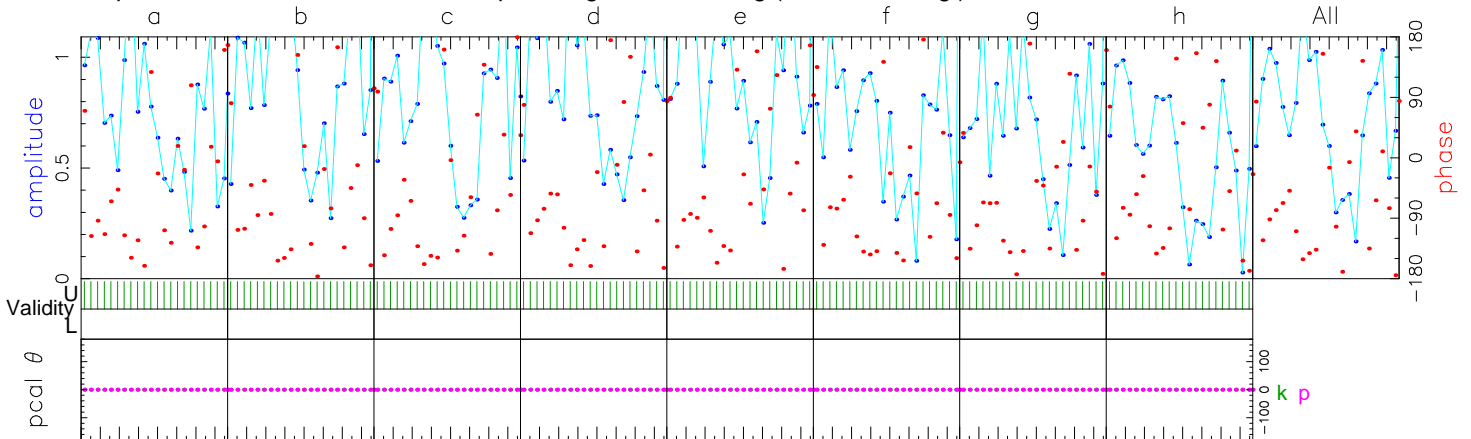
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, kp
VLBA_KP - VLBA_PT, fgroup W, pol RR



Fringe quality 9
SNR 20.9
Int time 438.763
Amp 0.364
Phase -109.1
PFD 0.0e+00
Delays (us)
SBD 0.002352
MBD 0.002031
Fringe rate (Hz) 0.014021
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
2020:197:120820
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

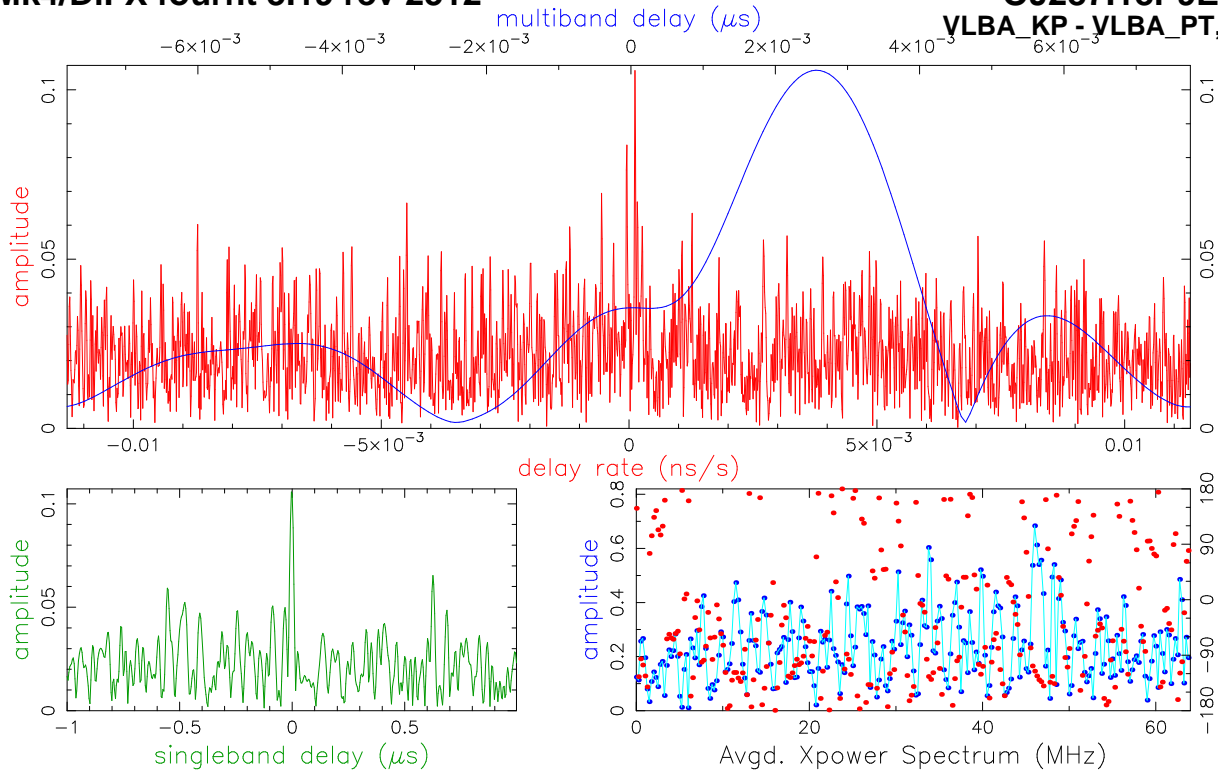
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.4	-105.3	-132.4	-104.8	-112.3	-101.4	-106.0	-102.8	Phase	-109.1
	0.3	0.5	0.4	0.5	0.4	0.3	0.4	0.3	Ampl.	0.4
	258.0	257.3	257.7	258.0	257.5	257.9	257.3	257.5	Sbd box	257.6
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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.33581815778E+02				-7.33583847146E+02				Resid mbdelay (usec)	2.03137E-03 +/- 5.2E-05
Sband delay (usec)	-7.33581494896E+02				-1.7602436E+01				Resid sbdelay (usec)	2.35225E-03 +/- 4.1E-04
Phase delay (usec)	-7.33583850665E+02				-1.9848659E-07				Resid phdelay (usec)	-3.51906E-06 +/- 1.8E-07
Delay rate (us/s)	7.37492178197E-02				7.37490550505E-02				Resid rate (us/s)	1.62769E-07 +/- 7.0E-10
Total phase (deg)			-322.7		2.48218774247E-06				Resid phase (deg)	-109.1 +/- 5.5
	RMS	Theor.	Amplitude	0.364 +/- 0.017	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	76.0	13.2	Search (2048X32)	0.350	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	124.8	23.0	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	10.8	7.8	Inc. seg. avg.	0.710	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	17.9	13.6	Inc. frq. avg.	0.360	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
k: az 91.6 el 42.9 pa -64.5					nlags: 256				t_cohere infinite	
p: az 96.0 el 45.7 pa -60.9										simultaneous interpolator
u,v (fr/asec) -444.966 -211.882										

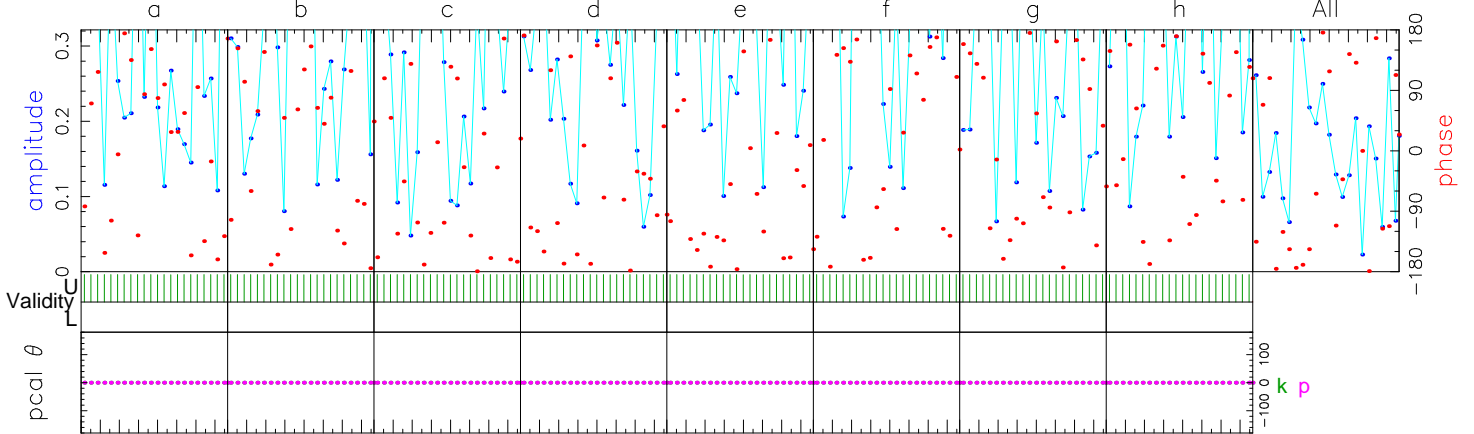
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, kp
VLBA_KP - VLBA_PT, fgroup W, pol LR



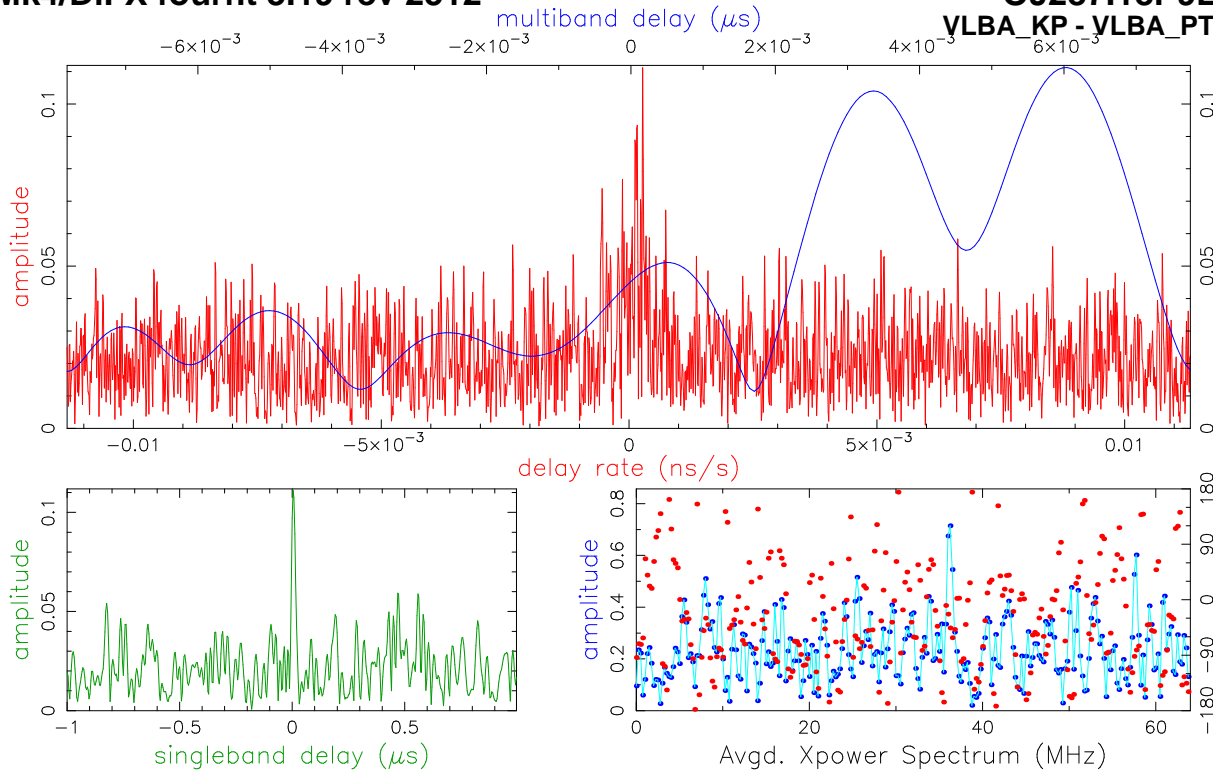
Fringe quality 0
SNR 6.1
Int time 438.763
Amp 0.107
Phase -167.7
PFD 1.9e-01
Delays (us)
SBD -0.002198
MBD 0.002512
Fringe rate (Hz)
0.010408
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
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



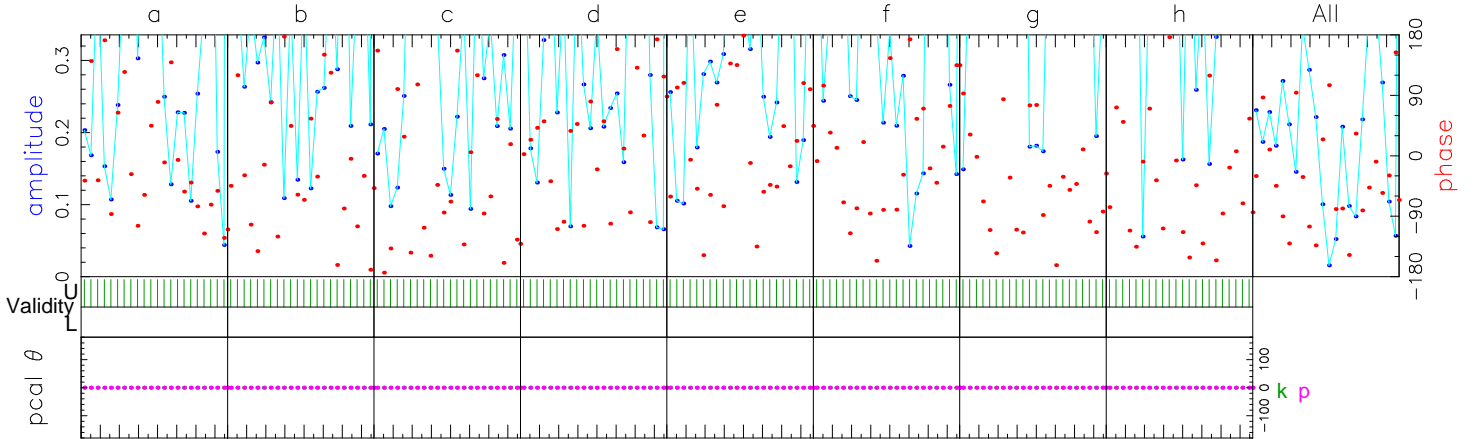
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.33581335572E+02				-7.33583847146E+02				2.51157E-03	+/- 1.8E-04
Sband delay (usec)	-7.33586045396E+02				-1.7602436E+01				-2.19825E-03	+/- 1.4E-03
Phase delay (usec)	-7.33583852554E+02				-1.9848659E-07				-5.40817E-06	+/- 6.0E-07
Delay rate (us/s)	7.37491758773E-02				7.37490550505E-02				1.20827E-07	+/- 2.4E-09
Total phase (deg)			-21.2		2.48218774247E-06				-167.7	+/- 18.7
	RMS	Theor.	Amplitude	0.107 +/- 0.017	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	70.6	44.7	Search (2048X32)	0.105	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	100.4	78.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	24.1	26.4	Inc. seg. avg.	0.129	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	40.8	46.1	Inc. frq. avg.	0.101	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 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -444.966 -211.882 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/kp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/kp.W.143.18P9EC



Fringe quality 0
SNR 6.4
Int time 438.762
Amp 0.112
Phase -52.7
PFD 4.0e-02
Delays (us)
SBD 0.004969
MBD 0.006053
Fringe rate (Hz)
0.024135
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

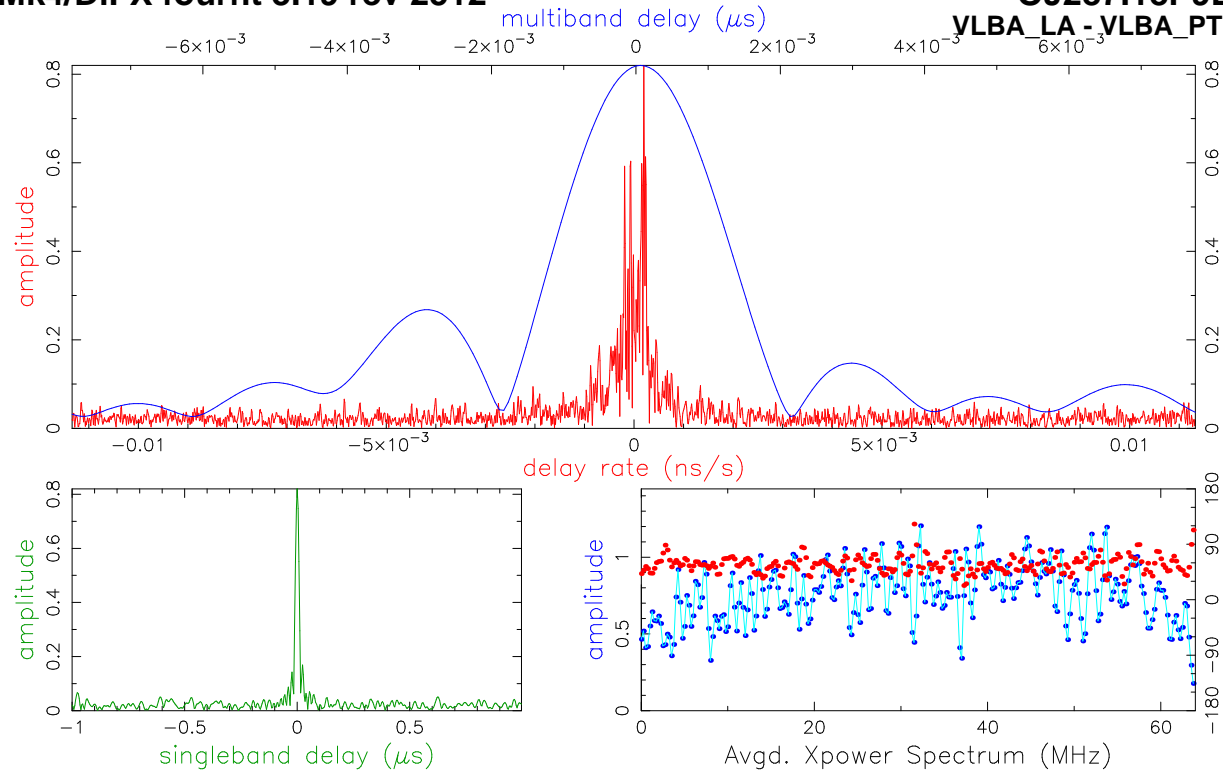


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-41.9	-74.2	-145.9	-6.7	5.8	-13.3	-65.9	-75.4	Phase	-52.7
	0.1	0.1	0.1	0.1	0.0	0.2	0.3	0.2	Ampl.	0.1
	61.1	467.0	451.0	400.1	499.5	258.6	257.9	186.6	Sbd box	258.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.33577794013E+02					-7.33583847146E+02			Resid mbdelay (usec)	6.05313E-03 +/- 1.7E-04
Sband delay (usec)	-7.33578878396E+02					-1.7602436E+01			Resid sbdelay (usec)	4.96875E-03 +/- 1.3E-03
Phase delay (usec)	-7.33583848845E+02					-1.9848659E-02			Resid phdelay (usec)	-1.69911E-06 +/- 5.8E-07
Delay rate (us/s)	7.37493352376E-02					7.37490550505E-02			Resid rate (us/s)	2.80187E-07 +/- 2.3E-09
Total phase (deg)			-266.2			2.48218774247E-06			Resid phase (deg)	-52.7 +/- 17.9
	RMS	Theor.	Amplitude	0.112 +/- 0.017					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	79.1	42.9	Search (2048X32)	0.107					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	119.4	74.9	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	53.3	25.3	Inc. seg. avg.	0.153					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	65.7	44.1	Inc. frq. avg.	0.127					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

k: az 91.6 el 42.9 pa -64.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -444.966 -211.882 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/kp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/kp.W.159.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

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

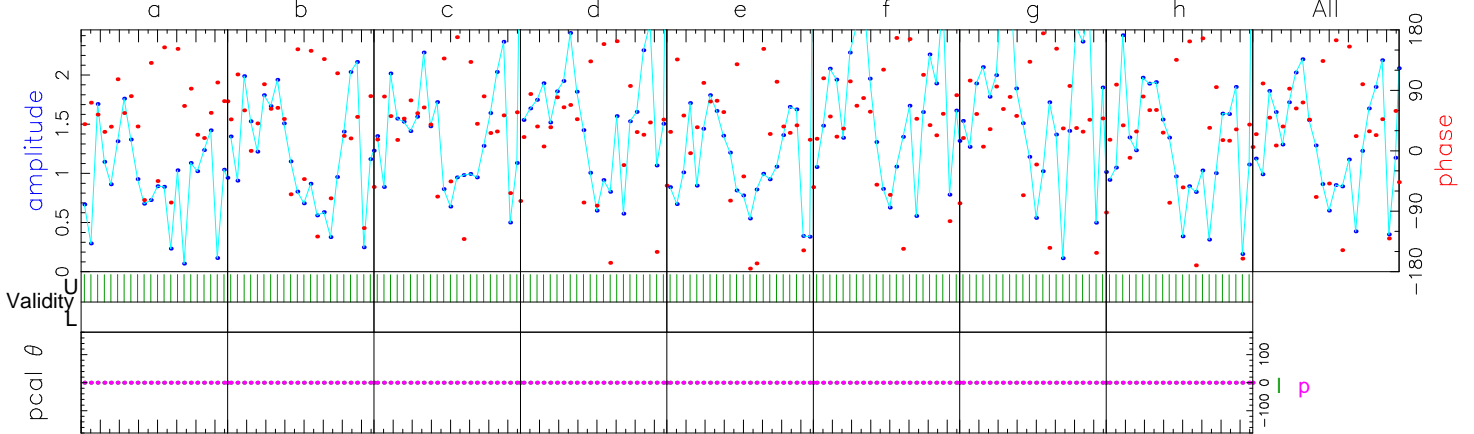


Fringe quality 7

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

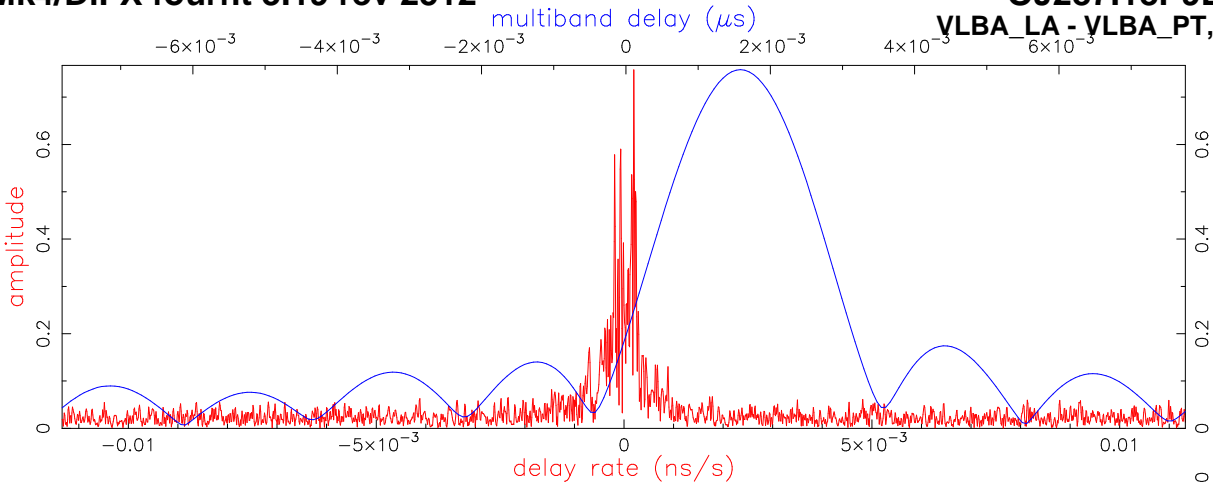


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	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

ph/seg (deg) 74.2 5.9 Search (2048X32) 0.812 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 87.3 10.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.1 3.5 Inc. seg. avg. 1.308 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.3 6.0 Inc. frq. avg. 0.824 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 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 258.626 146.758 ion window (TEC) 0.00 0.00
 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 simultaneous interpolator

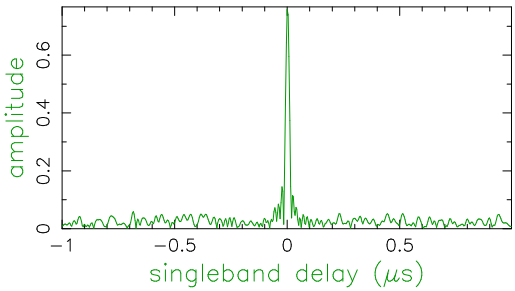
Mk4/DiFX fourfit 3.19 rev 2512

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

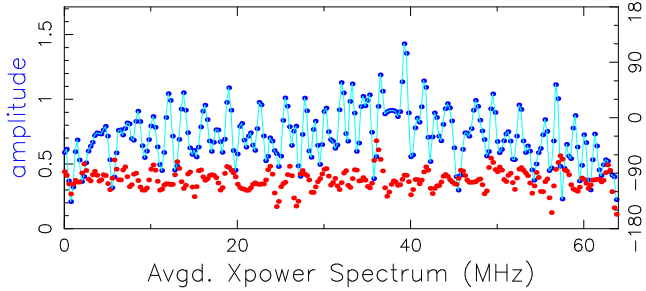


Fringe quality 7

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

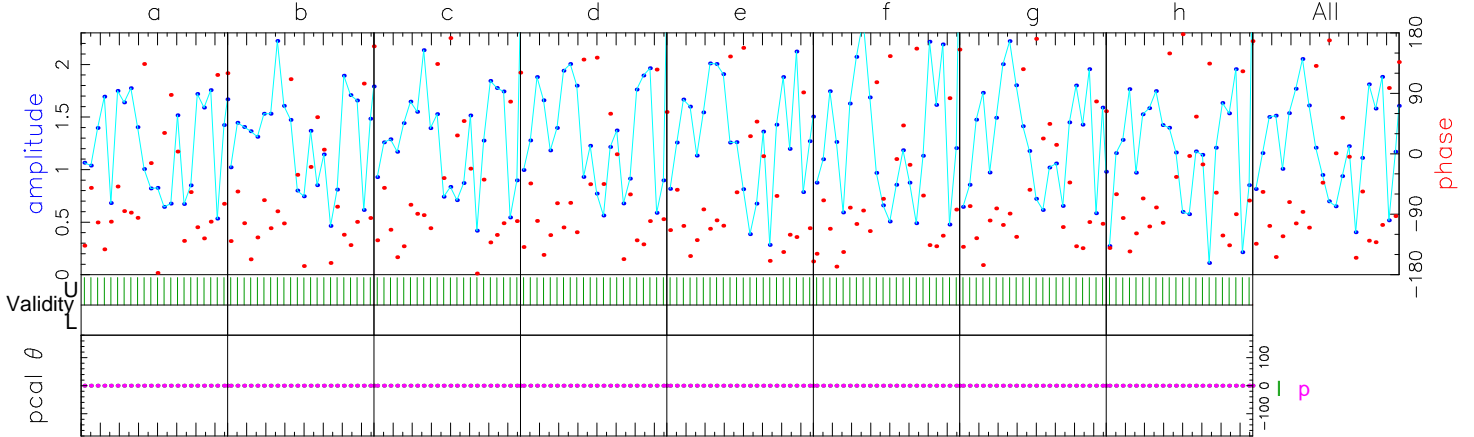


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120833
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
	-93.4	-100.6	-101.7	-103.5	-109.2	-107.2	-107.3	-94.9	Phase	-102.4
	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.7	Ampl.	0.8
	257.4	257.4	257.6	257.1	257.3	257.7	257.4	257.5	Sbd box	257.4
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	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

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

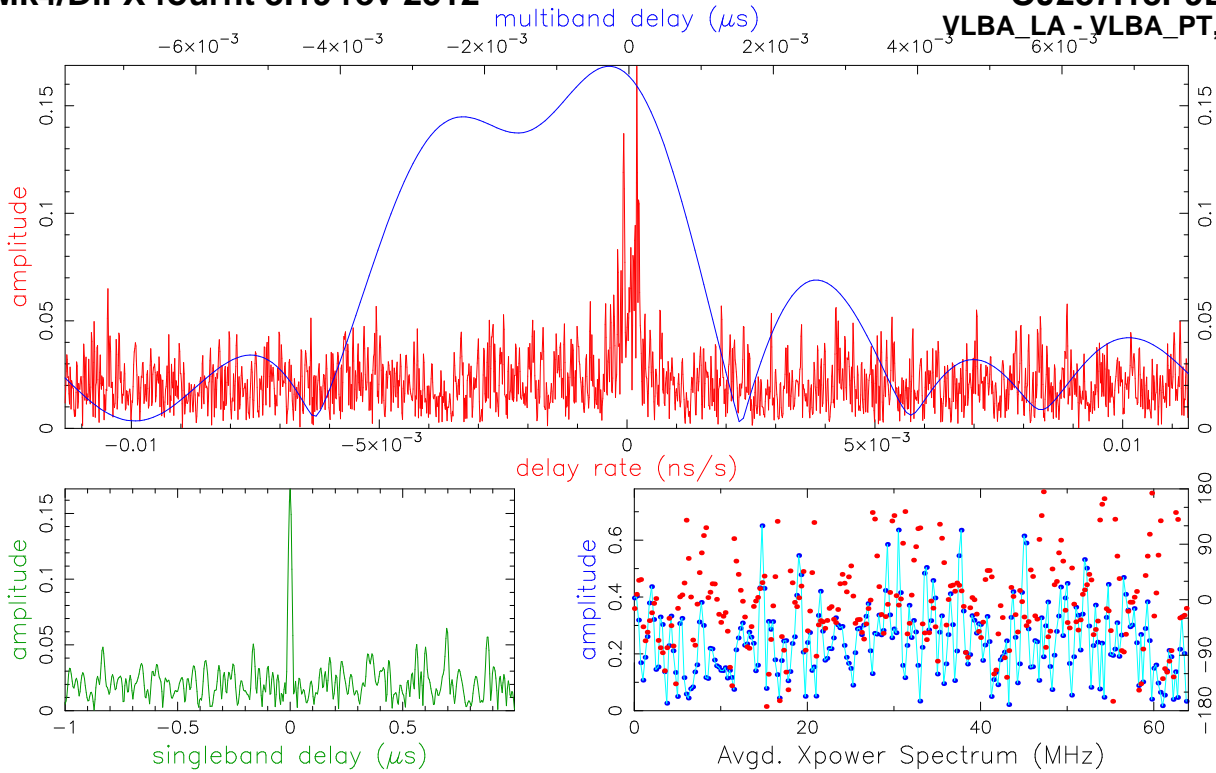
ph/seg (deg)	RMS 71.3	Theor. 6.3	Amplitude Search (2048X32)	0.767 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	84.4	10.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	6.3	3.7	Inc. seg. avg.	1.225	Bits/sample: 2x2	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	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

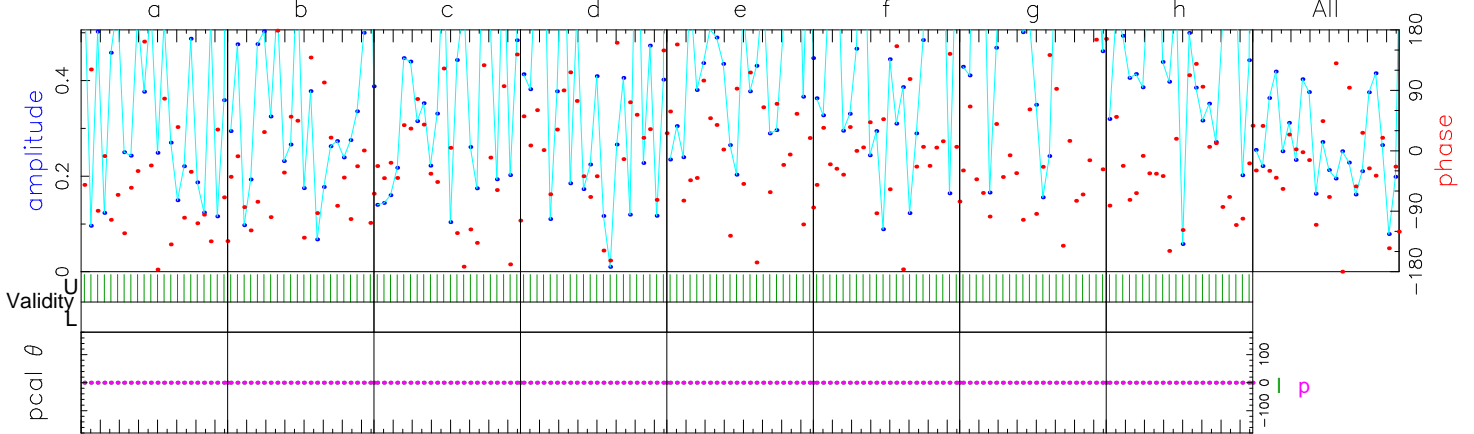
Mk4/DiFX fourfit 3.19 rev 2512

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 1.8×10^{-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



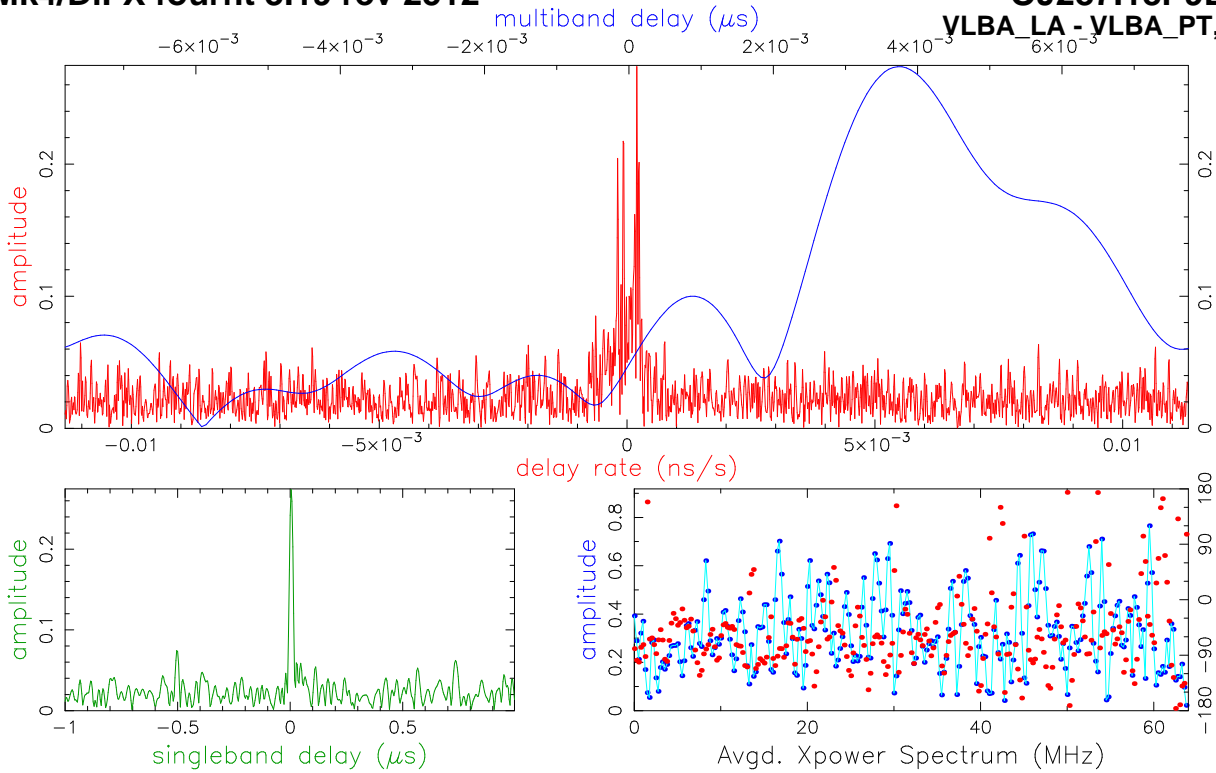
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.6	-43.1	82.2	41.2	18.0	-6.3	-31.8	-37.1	Phase	-14.1
	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	Ampl.	0.2
	256.2	217.1	342.4	257.9	256.6	256.4	256.7	256.4	Sbd box	256.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	
									Chan ids	
									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)		mb window (us)	-0.008	0.008
amp/seg (%)	79.1	49.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	55.6	16.8	Inc. seg. avg.	0.238	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	56.8	29.3	Inc. frq. avg.	0.201	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

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

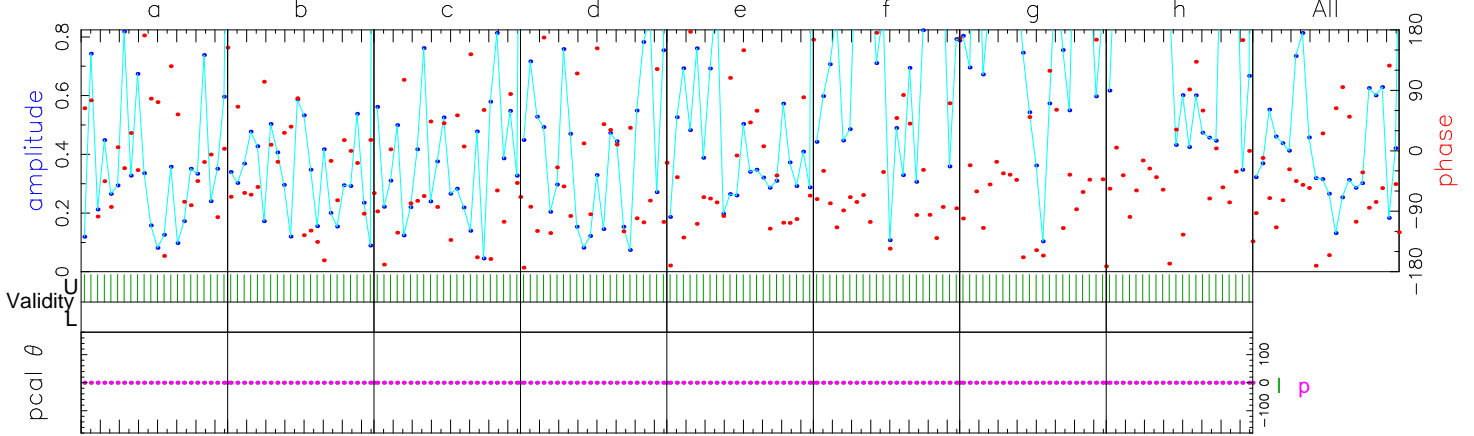


Fringe quality 7

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

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	
									Chan ids	
									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)			Apriori accel (us/s/s)		-9.36481818295E-07		Resid phase (deg)		-60.3	+/- 7.3

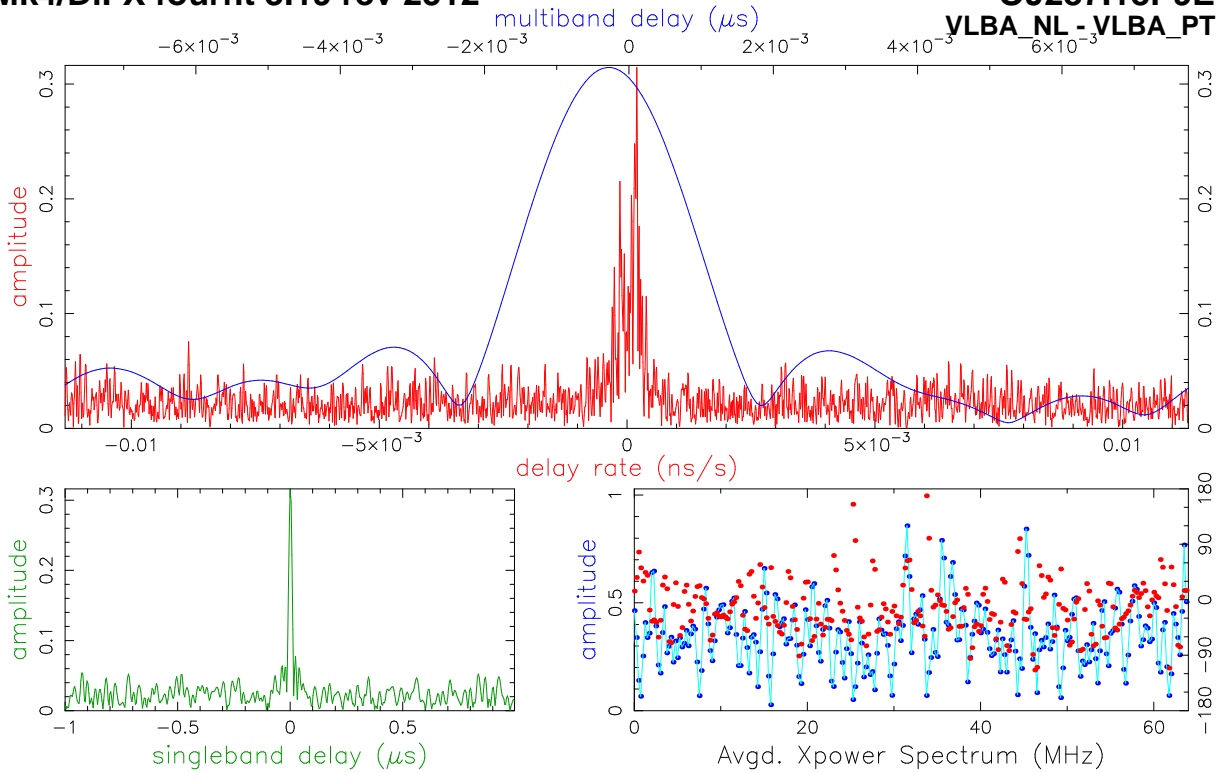
	RMS	Theor.	Amplitude	0.275 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	74.5	17.5	Search (2048X32)	0.268	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	82.7	30.5	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	30.1	10.3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

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, np
VLBA_NL - VLBA_PT, fgroup W, pol LL

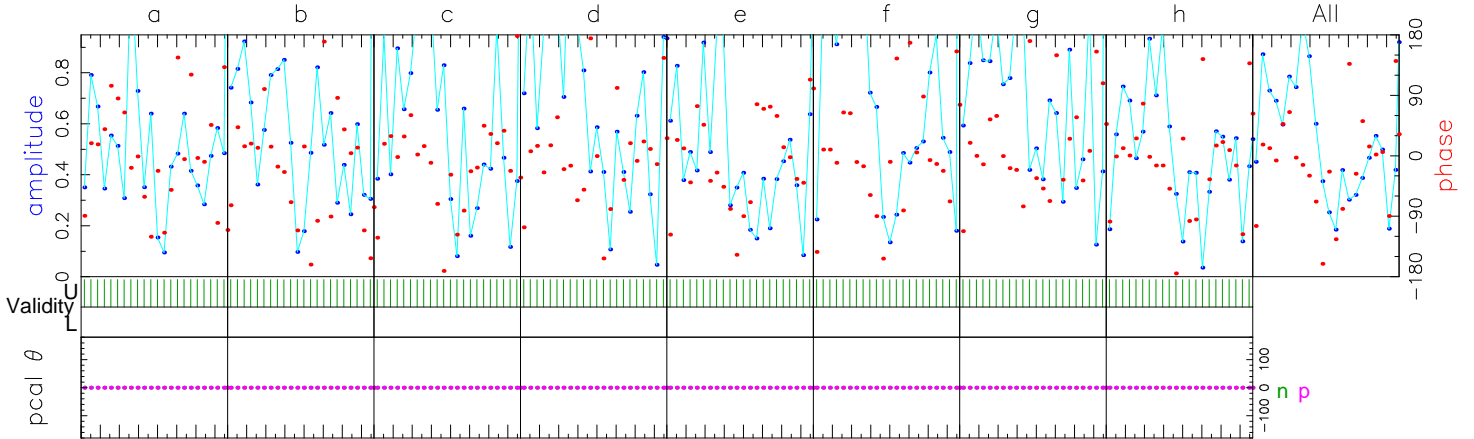


Fringe quality 9

SNR 18.1
Int time 438.238
Amp 0.316
Phase -3.2
PFD 0.0e+00
Delays (us)
SBD 0.000894
MBD -0.000258
Fringe rate (Hz) 0.016917
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
2020:197:120831
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

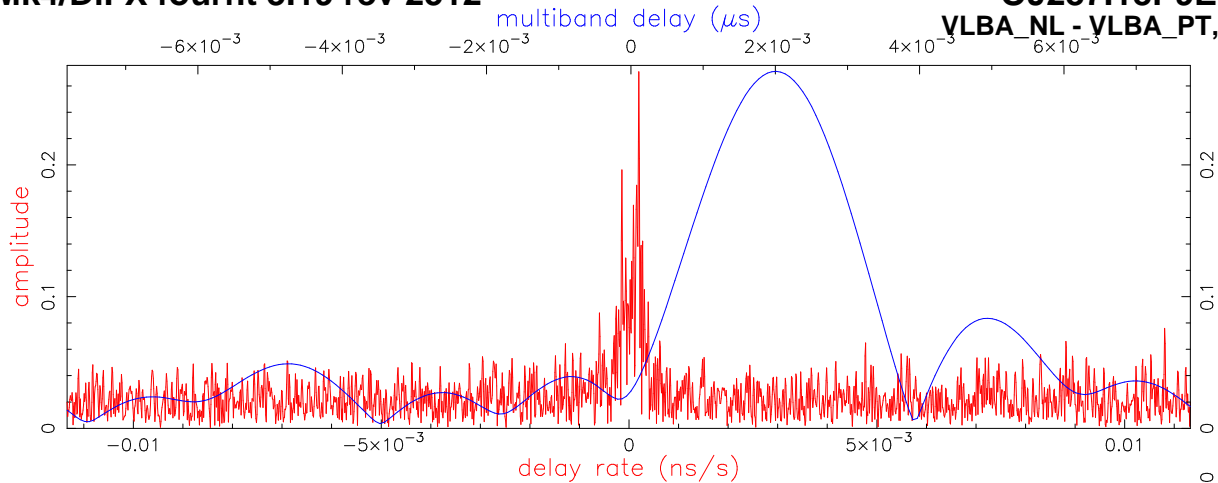
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		2.31454220318E+03			2.31454246135E+03				Resid mbdelay (usec)	-2.58178E-04 +/- 6.0E-05
Sband delay (usec)		2.31454335560E+03			1.4992254E+01				Resid sbdelay (usec)	8.94250E-04 +/- 4.8E-04
Phase delay (usec)		2.31454246125E+03			1.3011340E-07				Resid phdelay (usec)	-1.01902E-07 +/- 2.0E-07
Delay rate (us/s)		-3.30989634239E-01			-3.30989830633E-01				Resid rate (us/s)	1.96394E-07 +/- 8.0E-10
Total phase (deg)			220.4		-8.26989987725E-06				Resid phase (deg)	-3.2 +/- 6.3
	RMS	Theor.	Amplitude	0.316 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	74.0	15.2	Search (2048X32)	0.306	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	99.4	26.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	7.0	9.0	Inc. seg. avg.	0.515	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	23.9	15.6	Inc. frq. avg.	0.312	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

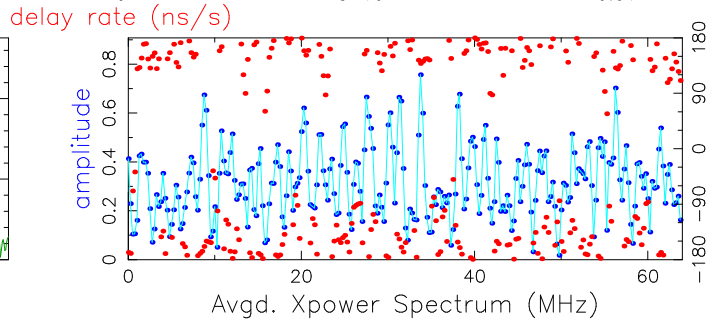
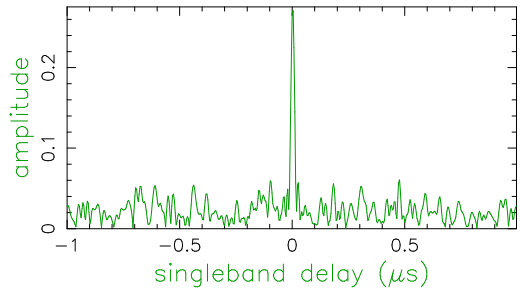
n: az 120.0 el 55.9 pa -43.5 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 2002.434 604.707 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/np..18P9EC Output file: /Exps/c201a/v1/1234/No0027/np.W.168.18P9EC



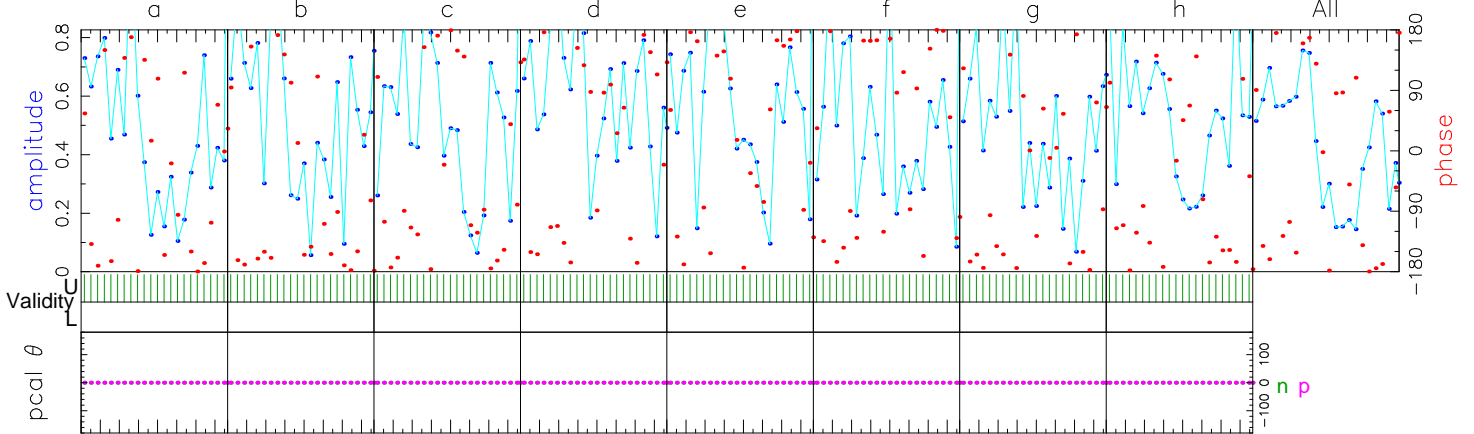
Fringe quality 9

SNR 15.8
Int time 438.239
Amp 0.276
Phase -172.4
PFD 0.0e+00
Delays (us)
SBD 0.002237
MBD 0.001950
Fringe rate (Hz)
0.017045
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

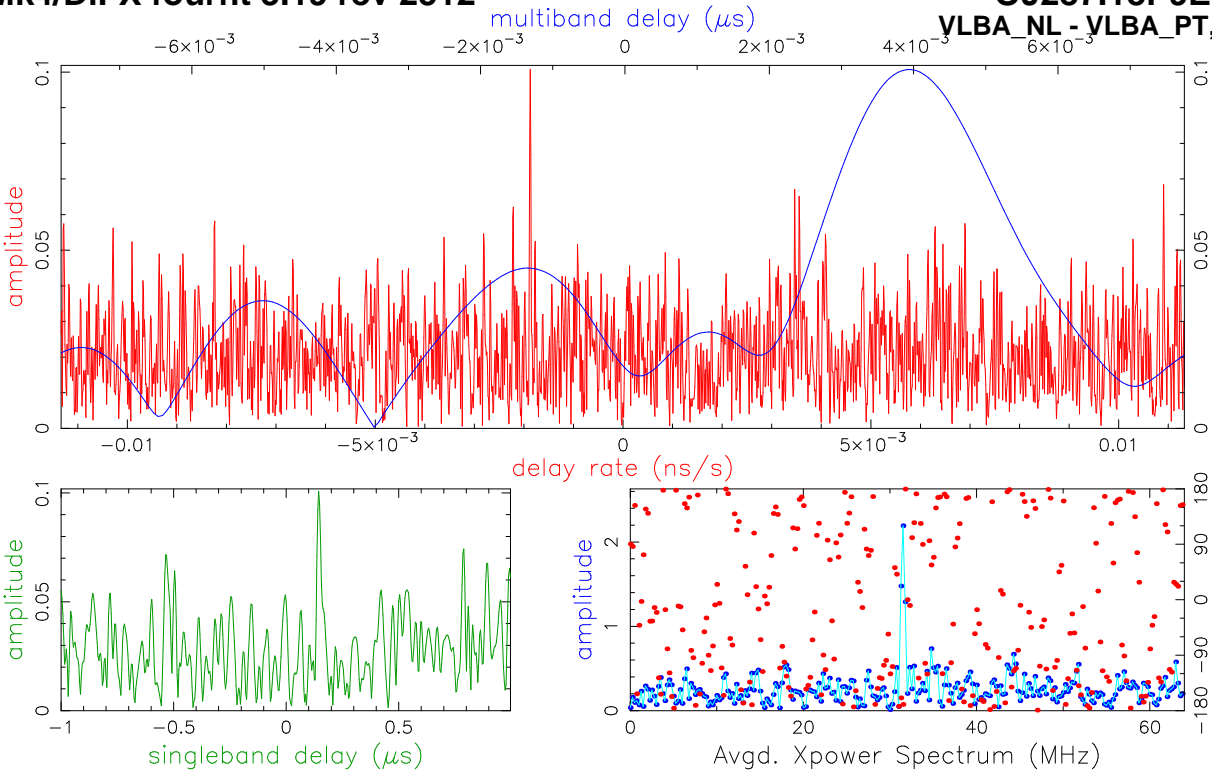


Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120836
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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

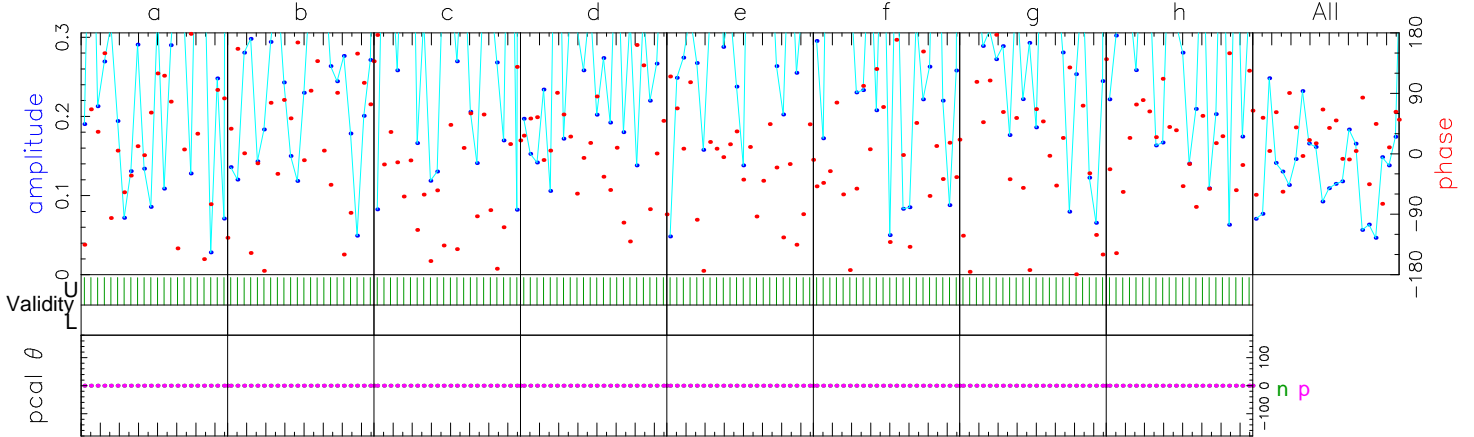


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	175.3	-172.2	-155.3	178.6	177.7	-177.9	-165.5	-160.9		
Sband delay (usec)	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2		
Phase delay (usec)	255.8	257.4	257.9	258.0	257.3	257.3	257.6	258.0		
Delay rate (us/s)		-3.30989632759E-01				-3.30989830633E-01				
Total phase (deg)			51.1							
Apriori delay (usec)					2.31454246135E+03					
Apriori clock (usec)					1.4992254E+01					
Apriori clockrate (us/s)					1.3011340E-07					
Apriori rate (us/s)					-3.30989830633E-01					
Apriori accel (us/s/s)					-8.26989987725E-06					
Resid mbdelay (usec)							1.94976E-03			+/- 6.9E-05
Resid sbdelay (usec)							2.23675E-03			+/- 5.5E-04
Resid phdelay (usec)							-5.56031E-06			+/- 2.3E-07
Resid rate (us/s)							1.97874E-07			+/- 9.2E-10
Resid phase (deg)							-172.4			+/- 7.3
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
Sample rate (MSamp/s):	128		dr window (ns/s)		-0.011		0.011			
Data rate (Mb/s):	2048		nlags: 256		t_cohere infinite		ion window (TEC)		0.00	
n: az 120.0 el 55.9 pa -43.5	p: az 96.0 el 45.7 pa -60.9		u, v (fr/asec) 2002.434 604.707						simultaneous interpolator	



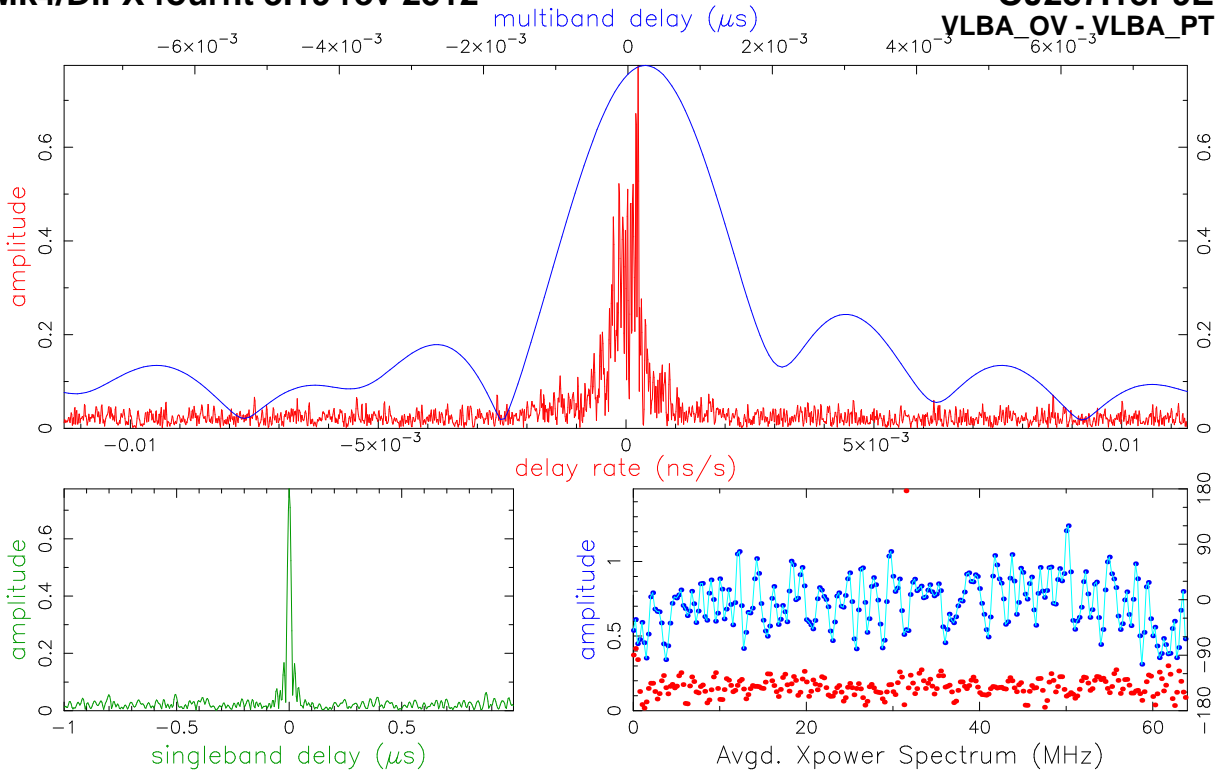
Fringe quality 0
SNR 5.8
Int time 438.238
Amp 0.102
Phase 16.3
PFD 8.7e-01
Delays (us)
SBD 0.144729
MBD 0.003949
Fringe rate (Hz)
-0.161218
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120845
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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		2.31468703558E+03				2.31454246135E+03			3.94923E-03	+/- 1.9E-04
Sband delay (usec)		2.31468719085E+03				1.4992254E+01			1.44729E-01	+/- 1.5E-03
Phase delay (usec)		2.31454246188E+03				1.3011340E-07			5.24526E-07	+/- 6.4E-07
Delay rate (us/s)		-3.30991702215E-01				-3.30989830633E-01			-1.87158E-06	+/- 2.5E-09
Total phase (deg)			239.8			-8.26989987725E-06			16.3	+/- 19.9
ph/seg (deg)	45.8	47.7								
amp/seg (%)	60.5	83.2								
ph/frq (deg)	38.3	28.1								
amp/frq (%)	46.4	49.0								
n: az 120.0 el 55.9 pa -43.5										
p: az 96.0 el 45.7 pa -60.9										
u,v (fr/asec)										
Control file: cf_1234_gmva										
Input file: /Exps/c201a/v1/1234/No0027/np..18P9EC										
Output file: /Exps/c201a/v1/1234/No0027/np.W.227.18P9EC										

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

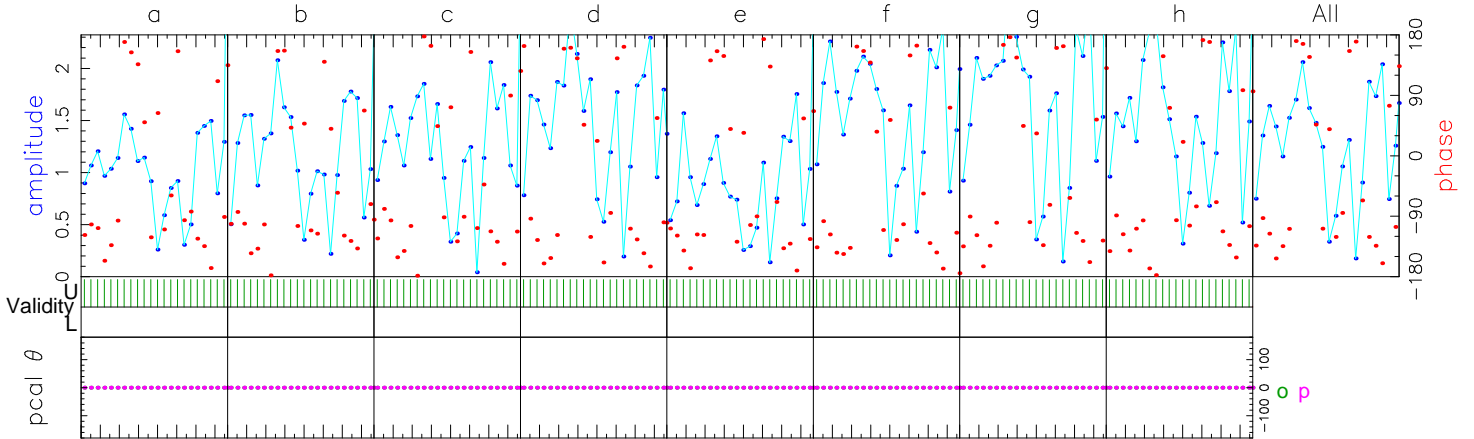


Fringe quality 6

SNR 44.4
Int time 438.742
Amp 0.774
Phase -142.3
PFD 0.0e+00
Delays (us)
SBD 0.000140
MBD 0.000245
Fringe rate (Hz)
0.020701
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

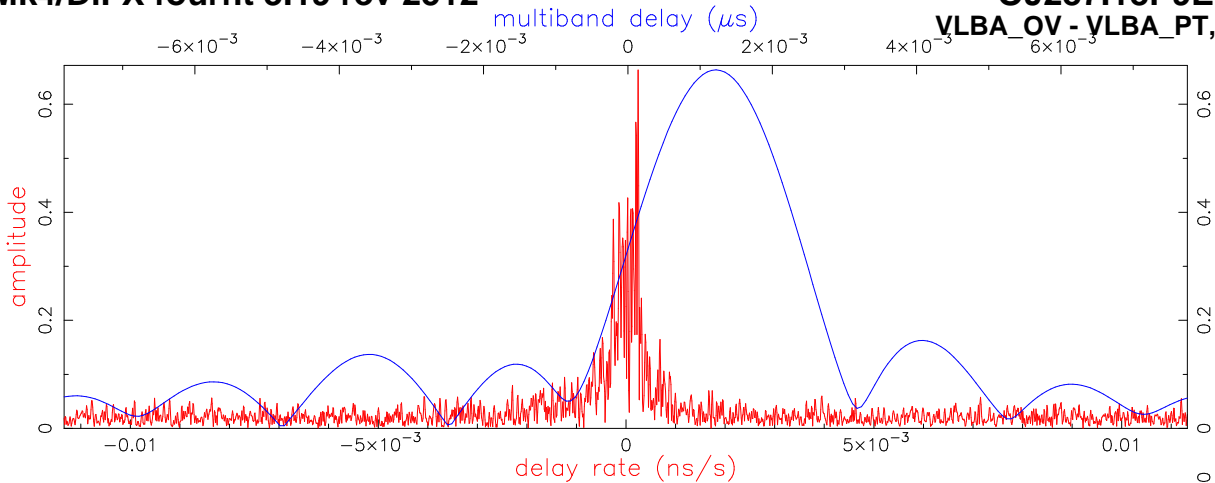
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120833
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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



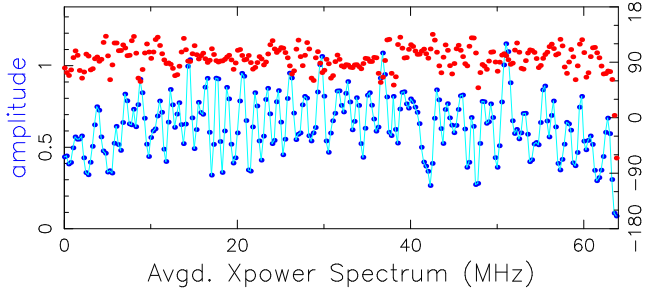
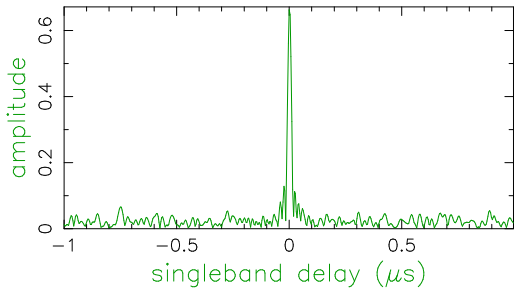
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.9	-131.8	-134.7	-153.3	-151.8	-149.1	-141.9	-133.8	Phase	-142.3
	0.6	0.6	0.7	0.9	0.6	0.9	1.0	1.0	Ampl.	0.8
	257.4	256.7	257.2	256.8	257.3	256.9	257.2	257.1	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.31986919790E+03		Apriori delay (usec)		-2.31986944245E+03		Resid mbdelay (usec)		2.44554E-04	+/- 2.4E-05
Sband delay (usec)	-2.31986930245E+03		Apriori clock (usec)		2.8079510E+00		Resid sbdelay (usec)		1.40000E-04	+/- 1.9E-04
Phase delay (usec)	-2.31986944704E+03		Apriori clockrate (us/s)		-2.8865799E-09		Resid phdelay (usec)		-4.59011E-06	+/- 8.3E-08
Delay rate (us/s)	9.61190643619E-02		Apriori rate (us/s)		9.61188240468E-02		Resid rate (us/s)		2.40315E-07	+/- 3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		1.39498675203E-05		Resid phase (deg)		-142.3	+/- 2.6

ph/seg (deg) 72.2 6.2 Search (2048X32) 0.733 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.9 10.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.1 3.7 Inc. seg. avg. 1.266 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.9 6.4 Inc. frq. avg. 0.780 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/op..18P9EC Output file: /Exps/c201a/v1/1234/No0027/op.W.174.18P9EC



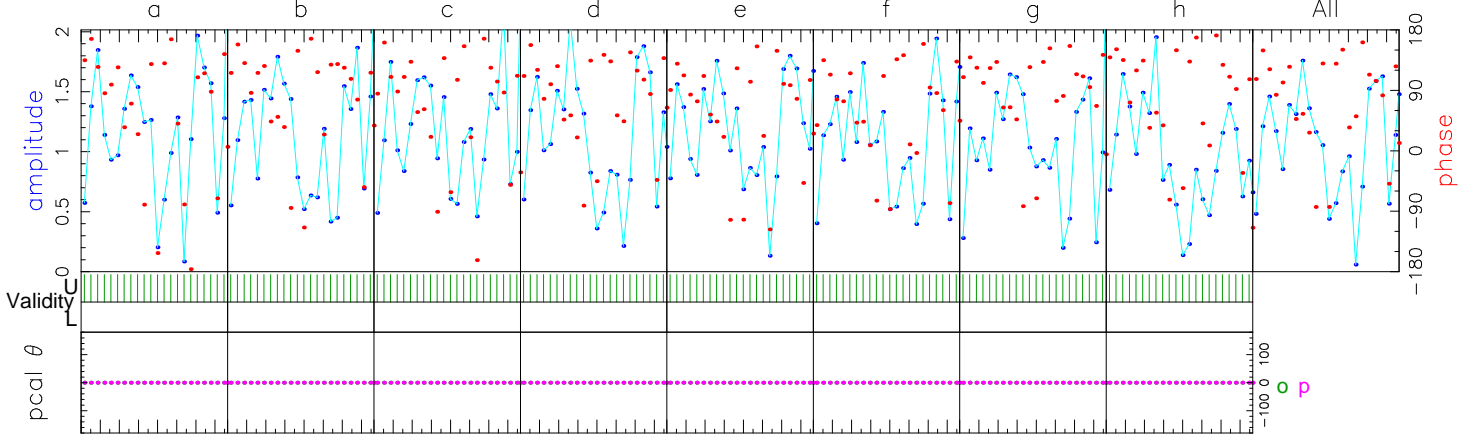
Fringe quality 7

SNR 38.5
 Int time 438.743
 Amp 0.672
 Phase 98.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.001461
 MBD 0.001247
 Fringe rate (Hz) 0.020694
 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

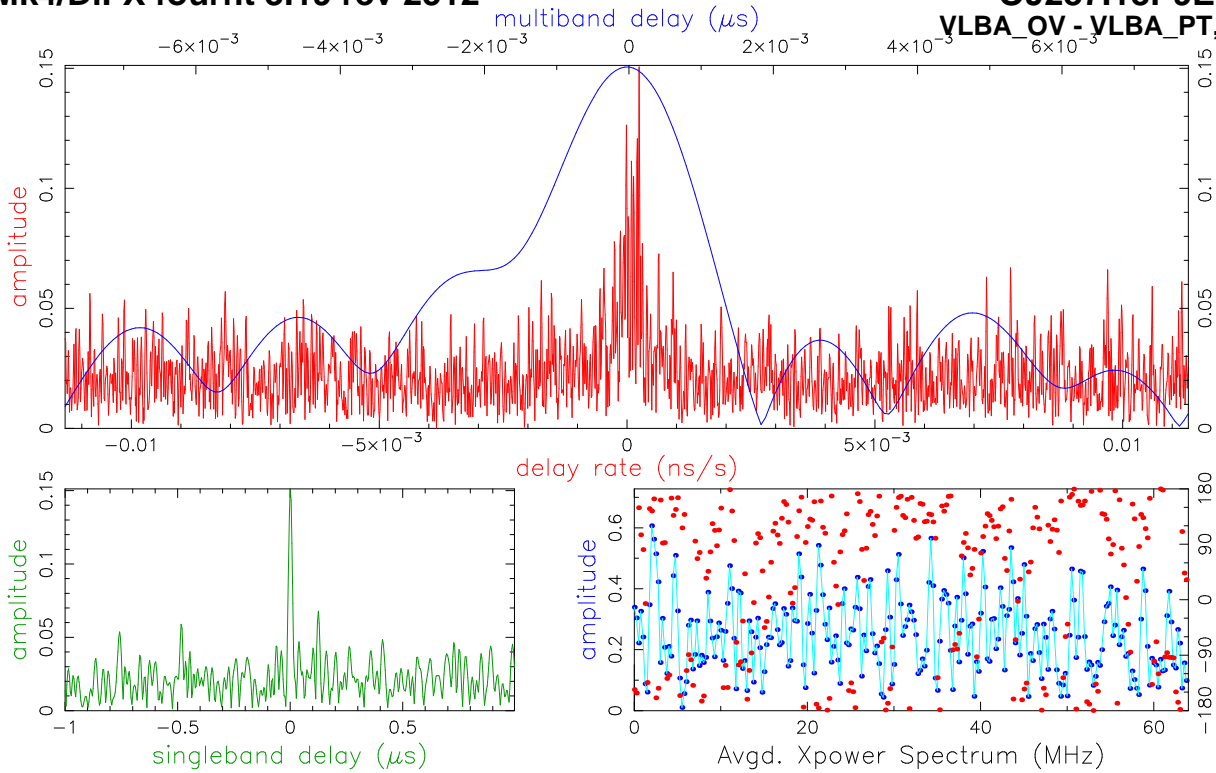


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
p	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -2.31986819580E+03 Apriori delay (usec) -2.31986944245E+03 Resid mbdelay (usec) 1.24665E-03 +/- 2.8E-05
 Sband delay (usec) -2.31986798095E+03 Apriori clock (usec) 2.8079510E+00 Resid sbdelay (usec) 1.46150E-03 +/- 2.2E-04
 Phase delay (usec) -2.31986943928E+03 Apriori clockrate (us/s) -2.8865799E-09 Resid phdelay (usec) 3.17135E-06 +/- 9.6E-08
 Delay rate (us/s) 9.61190642804E-02 Apriori rate (us/s) 9.61188240468E-02 Resid rate (us/s) 2.40234E-07 +/- 3.8E-10
 Total phase (deg) -179.8 Apriori accel (us/s/s) 1.39498675203E-05 Resid phase (deg) 98.3 +/- 3.0

RMS Theor. Amplitude 0.672 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 72.3 7.1 Search (2048X32) 0.626 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 86.8 12.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 9.0 4.2 Inc. seg. avg. 1.050 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 6.2 7.3 Inc. frq. avg. 0.668 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/op..18P9EC Output file: /Exps/c201a/v1/1234/No0027/op.W.198.18P9EC

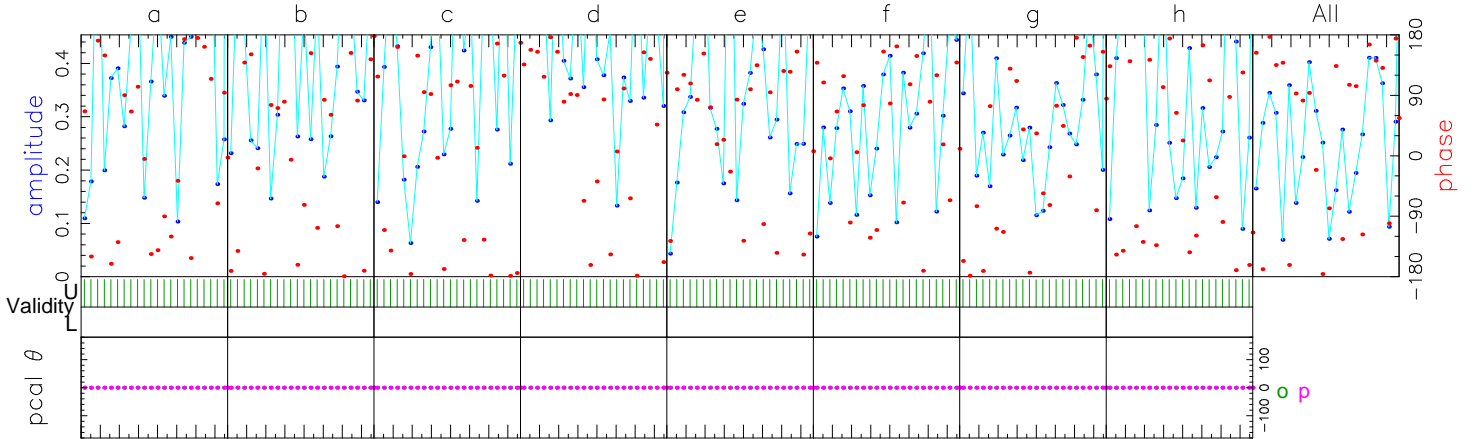


Fringe quality 9

SNR 8.7
Int time 438.743
Amp 0.151
Phase 157.0
PFD 1.7e-09
Delays (us)
SBD 0.000847
MBD -0.000025
Fringe rate (Hz) 0.020715
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
2020:197:120843
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

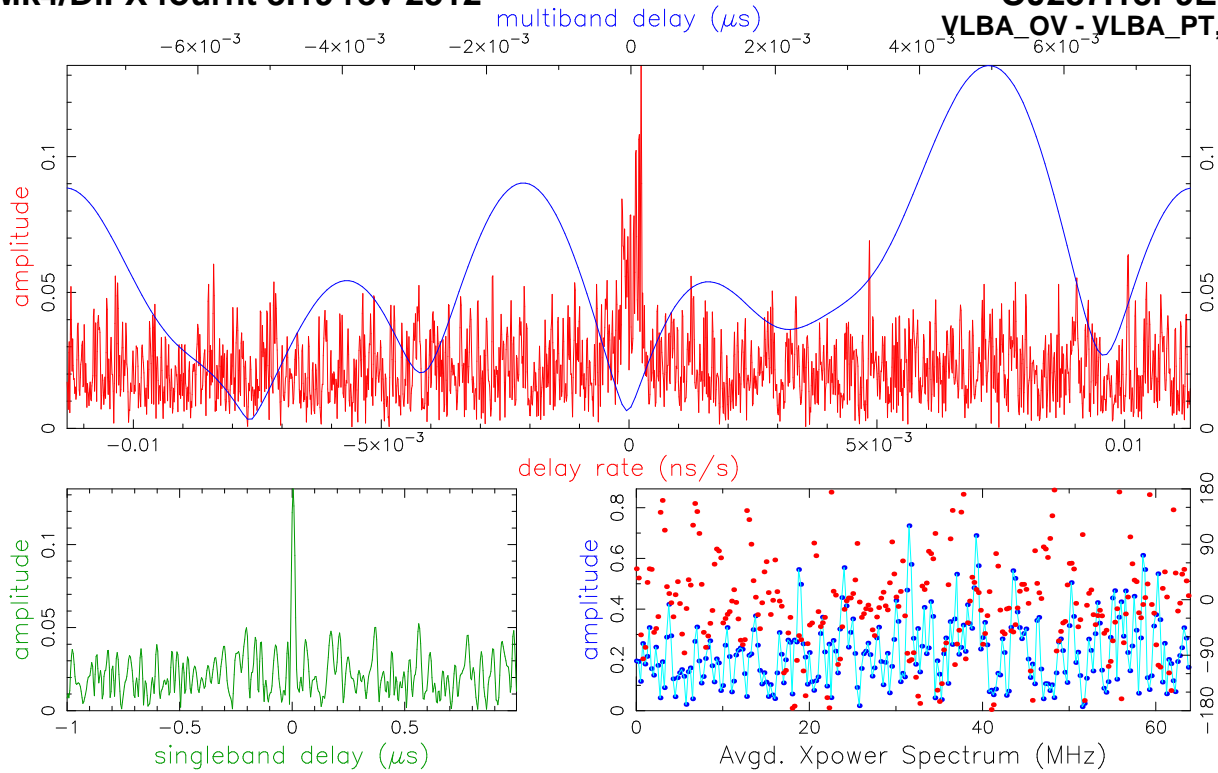
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.31986946746E+03				-2.31986944245E+03					
Sband delay (usec)	-2.31986859495E+03				2.8079510E+00					
Phase delay (usec)	-2.31986943739E+03				-2.8865799E-09					
Delay rate (us/s)	9.61190645227E-02				9.61188240468E-02					
Total phase (deg)			-121.2		1.39498675203E-05				157.0	
Apriori delay (usec)									-2.50089E-05	+/- 1.3E-04
Apriori clock (usec)									8.47500E-04	+/- 9.9E-04
Apriori clockrate (us/s)									5.06301E-06	+/- 4.3E-07
Apriori rate (us/s)									2.40476E-07	+/- 1.7E-09
Apriori accel (us/s/s)										+/- 13.2
RMS	66.5	31.7			0.151 +/- 0.017					
ph/seg (deg)	66.5	31.7			0.145					
amp/seg (%)	97.7	55.4			0.000					
ph/frq (deg)	27.1	18.7			0.218					
amp/frq (%)	39.2	32.7			0.152					
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							
Sample rate (MSamp/s):	128		dr window (ns/s) -0.011 0.011							
Data rate (Mb/s):	2048		ion window (TEC) 0.00 0.00							
nlags:	256		t_cohere infinite							

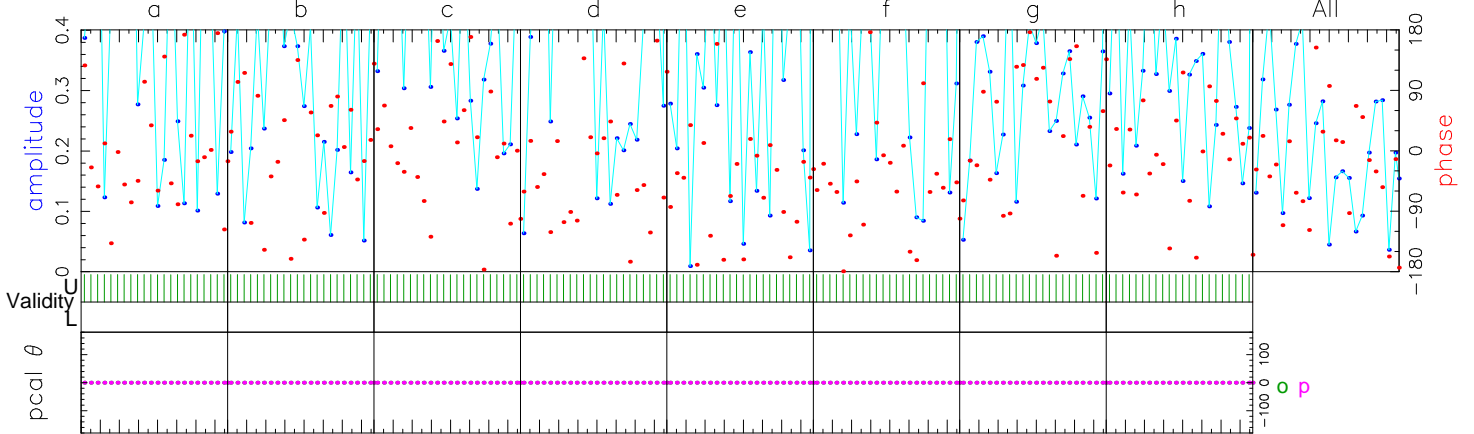
o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/op..18P9EC Output file: /Exps/c201a/v1/1234/No0027/op.W.219.18P9EC



Fringe quality 9
SNR 7.6
Int time 438.742
Amp 0.134
Phase -26.4
PFD 6.6e-06
Delays (us)
SBD 0.004198
MBD 0.004975
Fringe rate (Hz) 0.020745
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
2020:197:120847
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

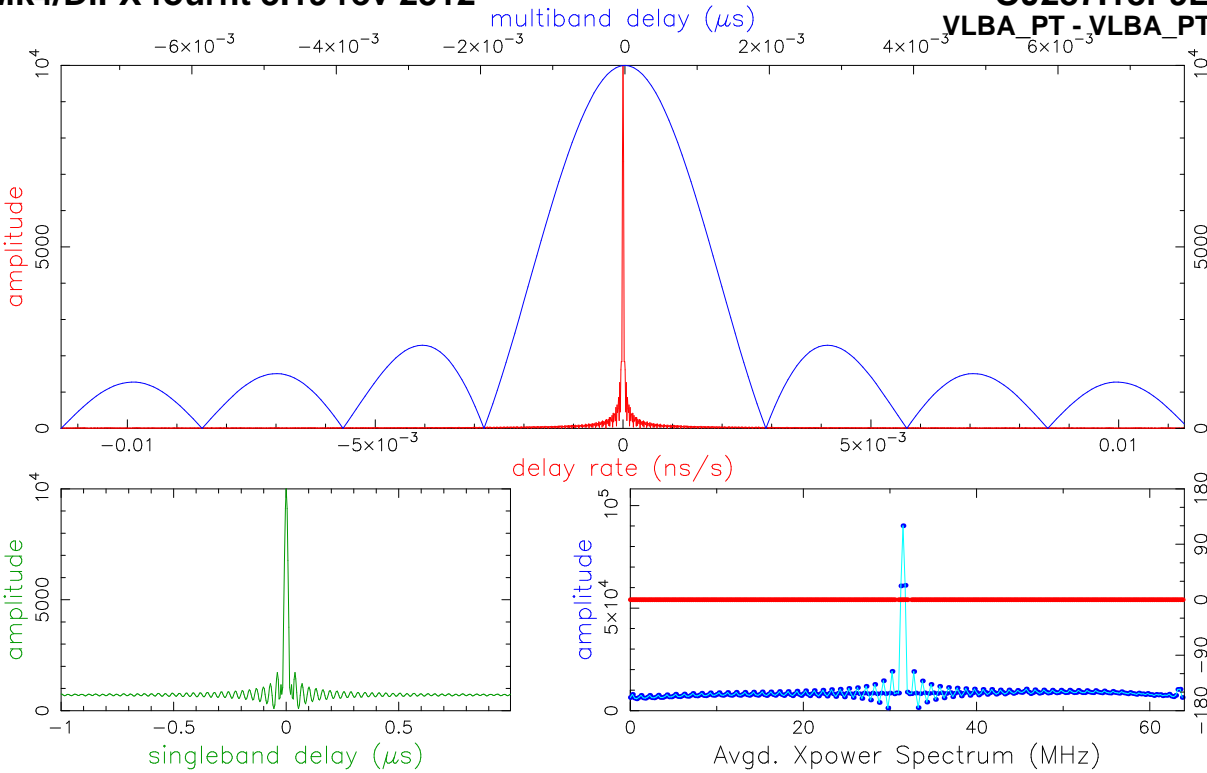


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.31986446715E+03	Apriori delay (usec)	-2.31986944245E+03	Resid mbdelay (usec)	4.97530E-03	+/-	1.4E-04
Sband delay (usec)	-2.31986524420E+03	Apriori clock (usec)	2.8079510E+00	Resid sbdelay (usec)	4.19825E-03	+/-	1.1E-03
Phase delay (usec)	-2.31986944330E+03	Apriori clockrate (us/s)	-2.8865799E-09	Resid phdelay (usec)	-8.50097E-07	+/-	4.8E-07
Delay rate (us/s)	9.61190648791E-02	Apriori rate (us/s)	9.61188240468E-02	Resid rate (us/s)	2.40832E-07	+/-	1.9E-09
Total phase (deg)	-304.5	Apriori accel (us/s/s)	1.39498675203E-05	Resid phase (deg)	-26.4	+/-	15.0

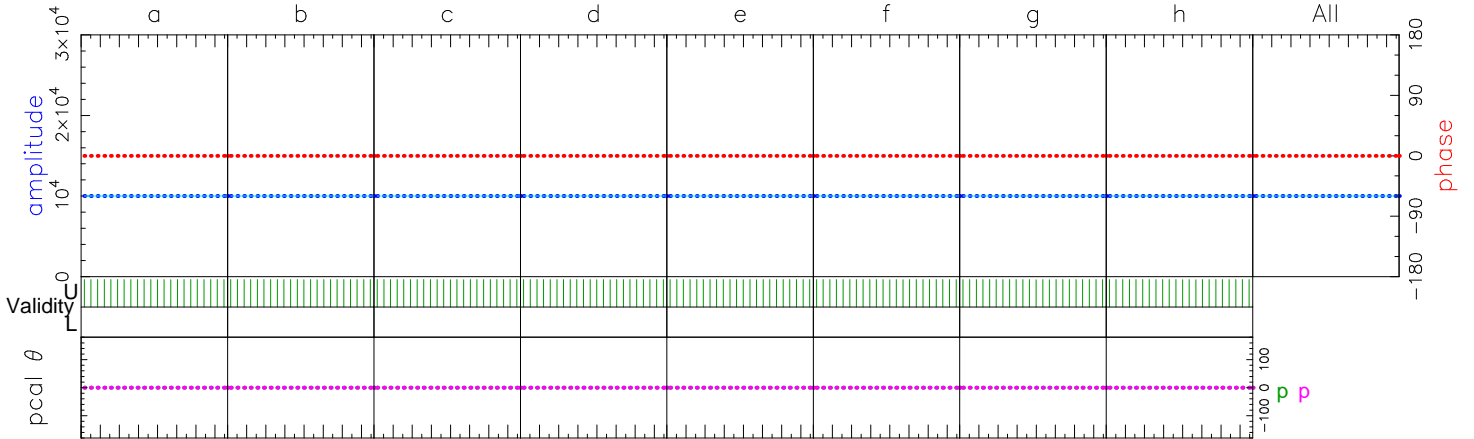
ph/seg (deg)	72.2	Theor.	35.9	Amplitude	0.134 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	103.2	Search (2048X32)	0.129	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	64.1	Inc. seg. avg.	0.177	Inc. frq. avg.	0.159	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	58.1	Inc. frq. avg.	0.159	u,v (fr/asec)	-563.218 747.211	Sample rate (MSamp/s):	128	nlags:	256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
						Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00		

o: az 92.1 el 37.2 pa -57.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) -563.218 747.211 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/op..18P9EC Output file: /Exps/c201a/v1/1234/No0027/op.W.234.18P9EC



Fringe quality 9
 SNR 572812.4
 Int time 438.762
 Amp 10000.004
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. 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

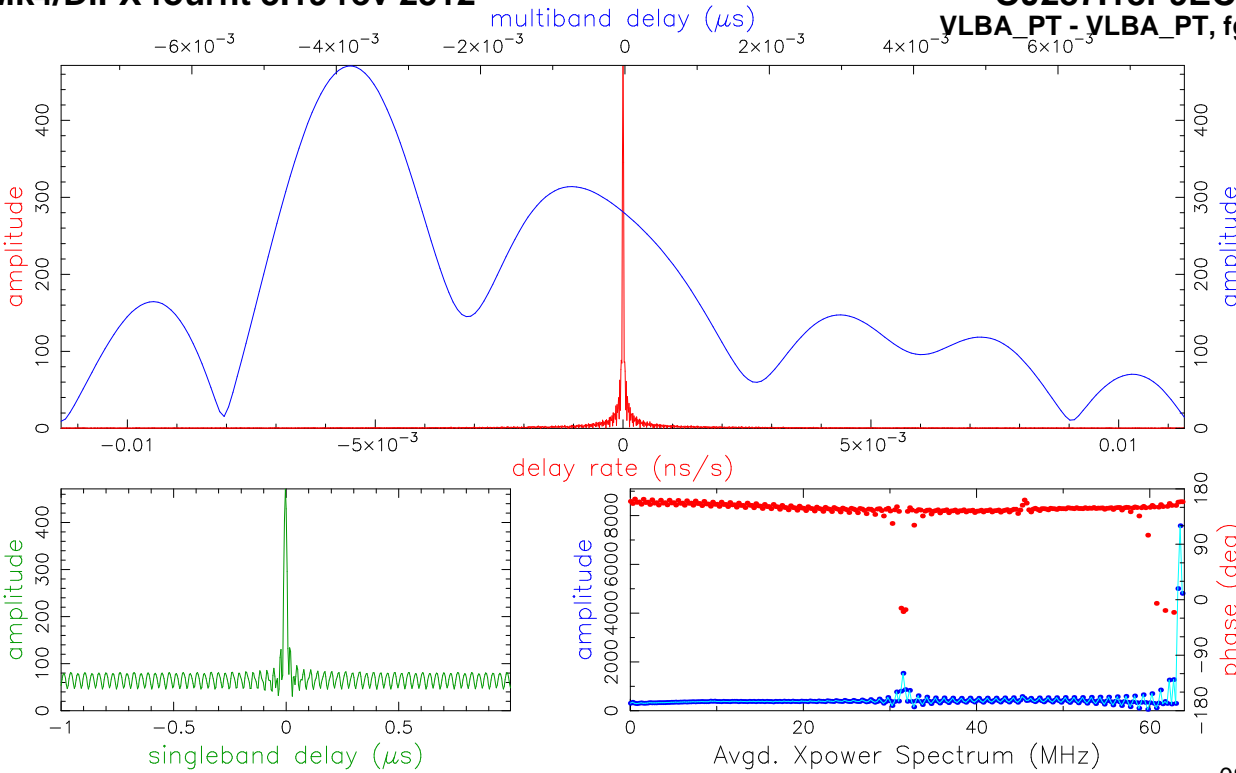


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000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

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) 4.87207798698E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 4.87208E-19 +/- 6.5E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.004 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

p: az 96.0 el 45.7 pa -60.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/pp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/pp.W.175.18P9EC

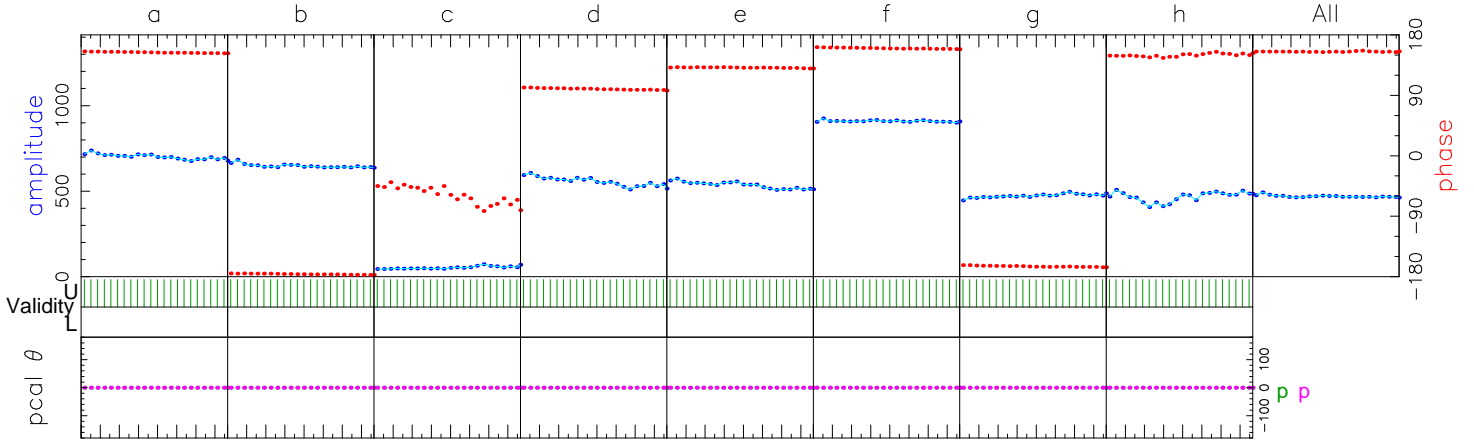


Fringe quality 5

SNR 27002.1
 Int time 438.762
 Amp 471.395
 Phase 155.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.003447
 MBD -0.003816
 Fringe rate (Hz) 0.000020
 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
 2020:197:120840
 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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.81600000000E-03									
Sband delay (usec)	-3.44700000000E-03									
Phase delay (usec)	4.99731704849E-06									
Delay rate (us/s)	2.31698341604E-10									
Total phase (deg)			155.0							
				Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	-3.81600E-03	+/-	4.0E-08
				Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	-3.44700E-03	+/-	3.2E-07
				Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	4.99732E-06	+/-	1.4E-10
				Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	2.31698E-10	+/-	5.4E-13
				Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	155.0	+/-	0.0

ph/seg (deg) 0.5 0.0
 amp/seg (%) 1.3 0.0
 ph/frq (deg) 67.6 0.0
 amp/frq (%) 51.1 0.0

p: az 96.0 el 45.7 pa -60.9
 Control file: cf_1234_gmva

Amplitude 471.395 +/- 0.017
 Search (2048X32) 468.338
 Interp. 0.000
 Inc. seg. avg. 470.635
 Inc. frq. avg. 543.400

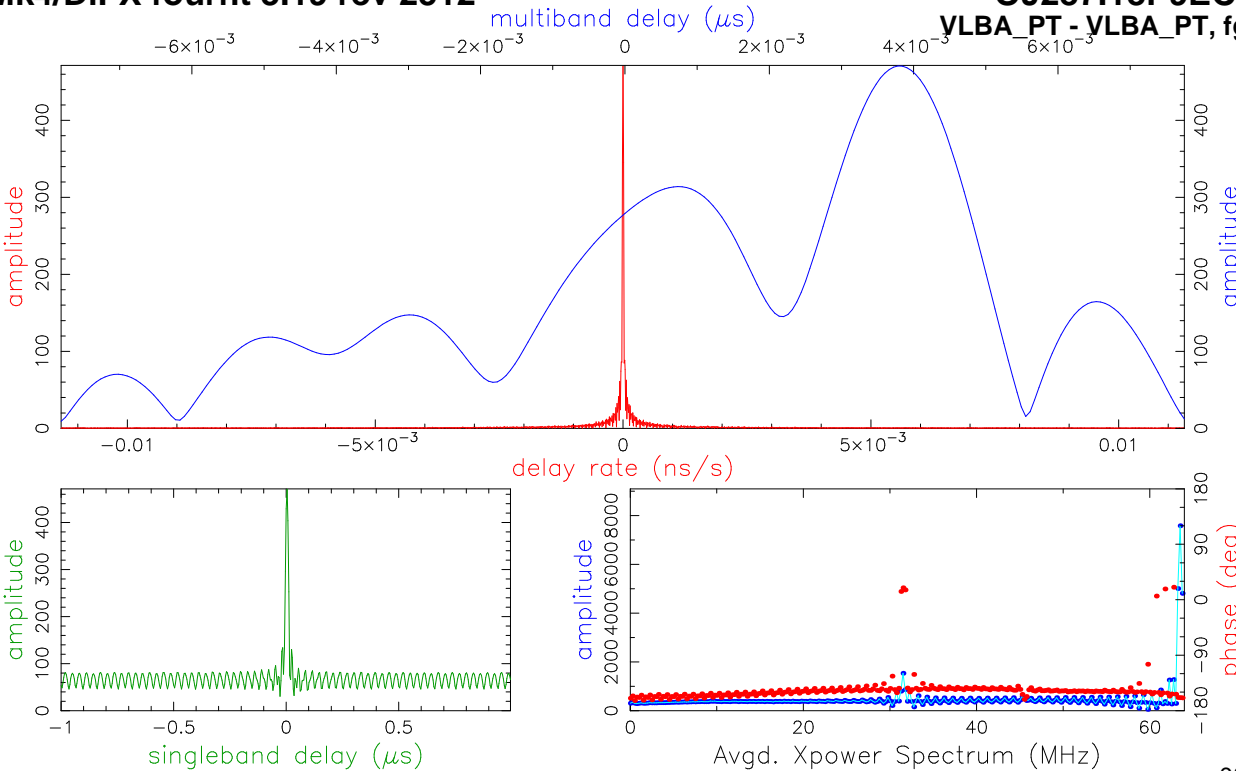
u,v (fr/asec) 0.000 0.000

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) -1.000 1.000
 SampCntNorm: enabled
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 nlags: 256 t_cohere infinite
 ion window (TEC) 0.00 0.00

simultaneous interpolator

Input file: /Exps/c201a/v1/1234/No0027/pp..18P9EC
 Output file: /Exps/c201a/v1/1234/No0027/pp.W.203.18P9EC

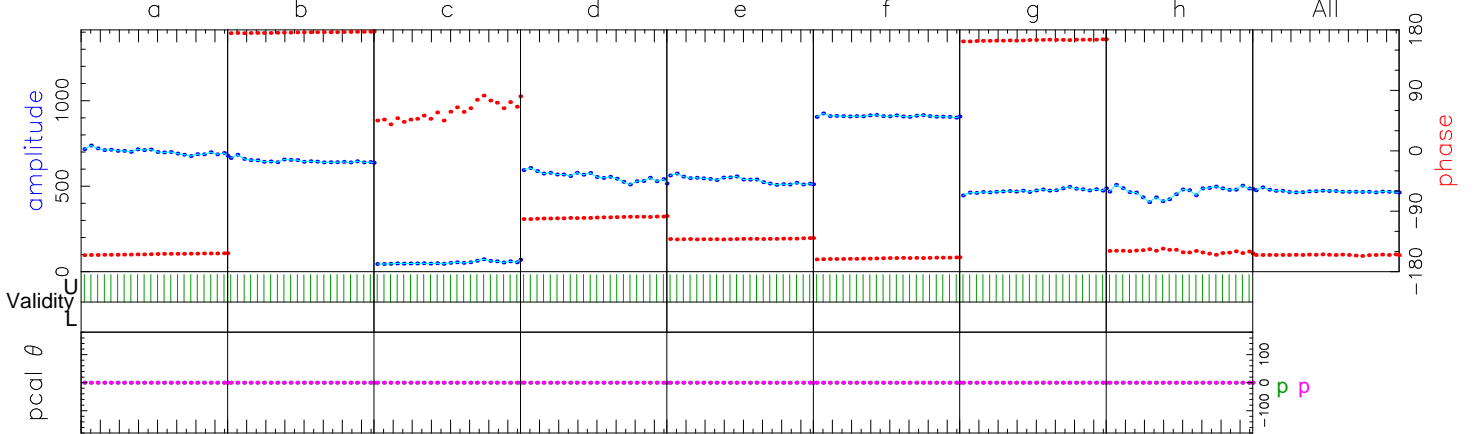


Fringe quality 5

SNR 27002.0
 Int time 438.763
 Amp 471.394
 Phase -155.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.003447
 MBD 0.003816
 Fringe rate (Hz)
 -0.000020
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

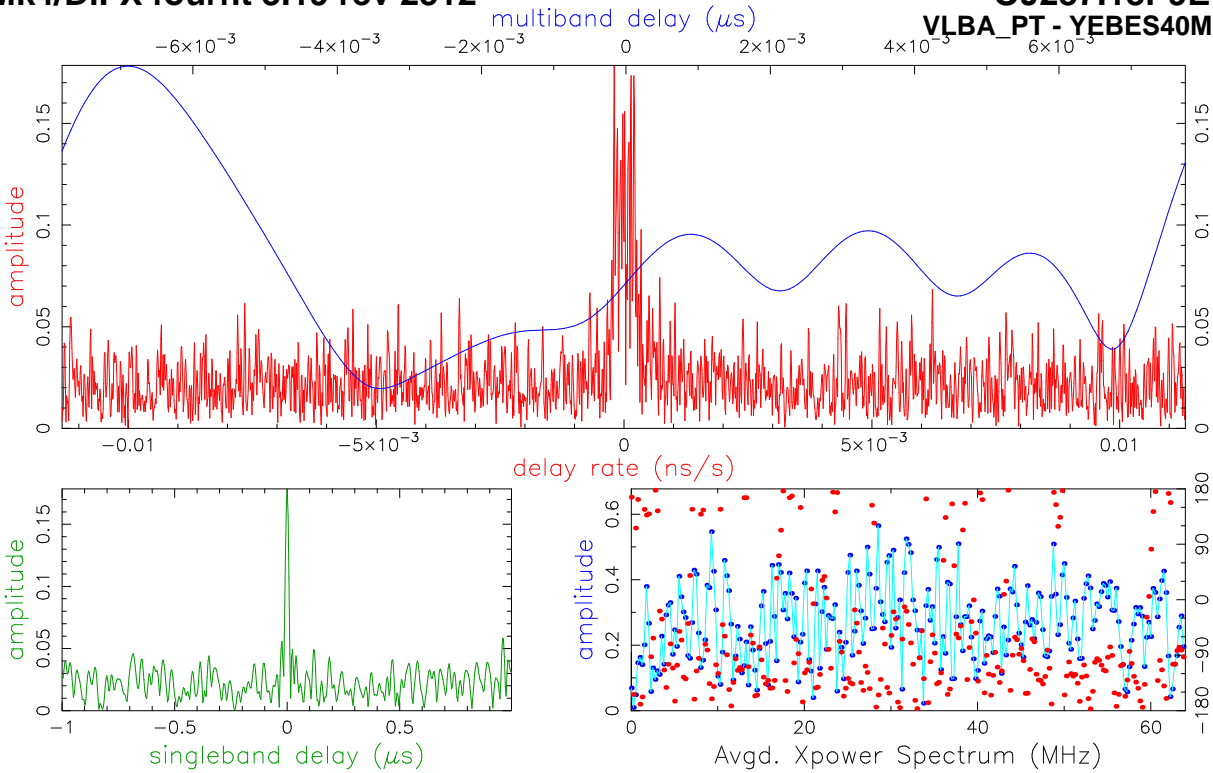
Exp. c201a
 Exper # 16383
 Yr:day 2020:115
 Start 224500.00
 Stop 225219.80
 FRT 224840.00
 Corr/FF/build
 2020:195:224837
 2020:197:120843
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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



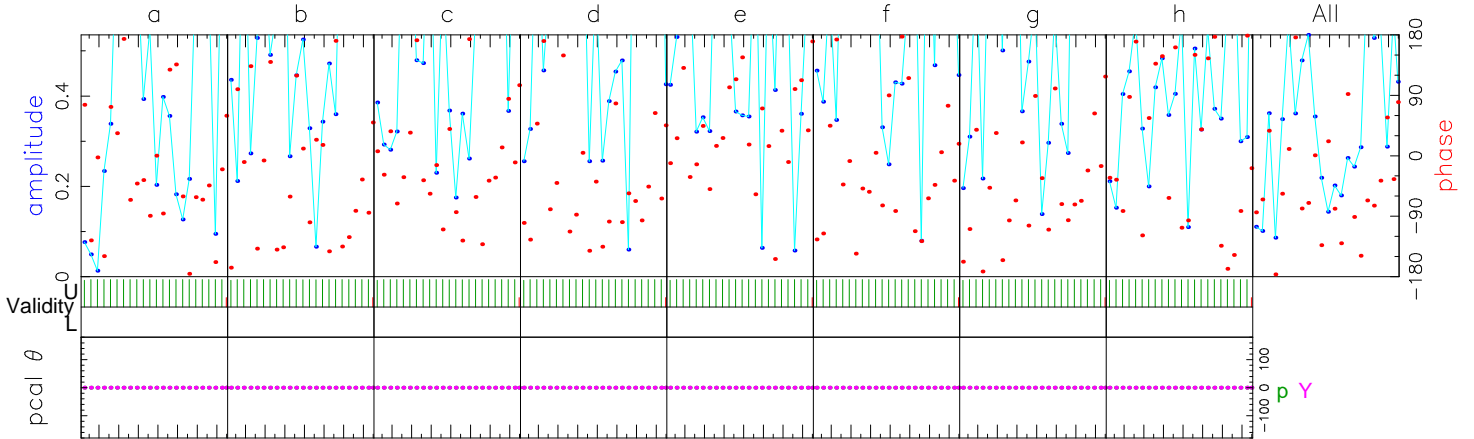
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-153.9	176.1	59.2	-99.6	-131.2	-160.0	164.4	-149.8	Phase	-155.0
	702.4	648.3	52.2	557.9	536.6	909.9	473.2	466.8	Ampl.	543.4
	257.2	257.5	255.3	257.3	257.7	257.6	257.5	255.1	Sbd box	257.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.81600000000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.81600E-03	+/- 4.0E-08
Sband delay (usec)	3.44700000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		3.44700E-03	+/- 3.2E-07
Phase delay (usec)	-4.99731704853E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.99732E-06	+/- 1.4E-10
Delay rate (us/s)	-2.31698341604E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.31698E-10	+/- 5.4E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-155.0	+/- 0.0

RMS Theor. Amplitude 471.394 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.5 0.0 Search (2048X32) 468.338 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 67.6 0.0 Inc. seg. avg. 470.634 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 51.1 0.0 Inc. frq. avg. 543.399 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 p: az 96.0 el 45.7 pa -60.9 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/pp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/pp.W.220.18P9EC



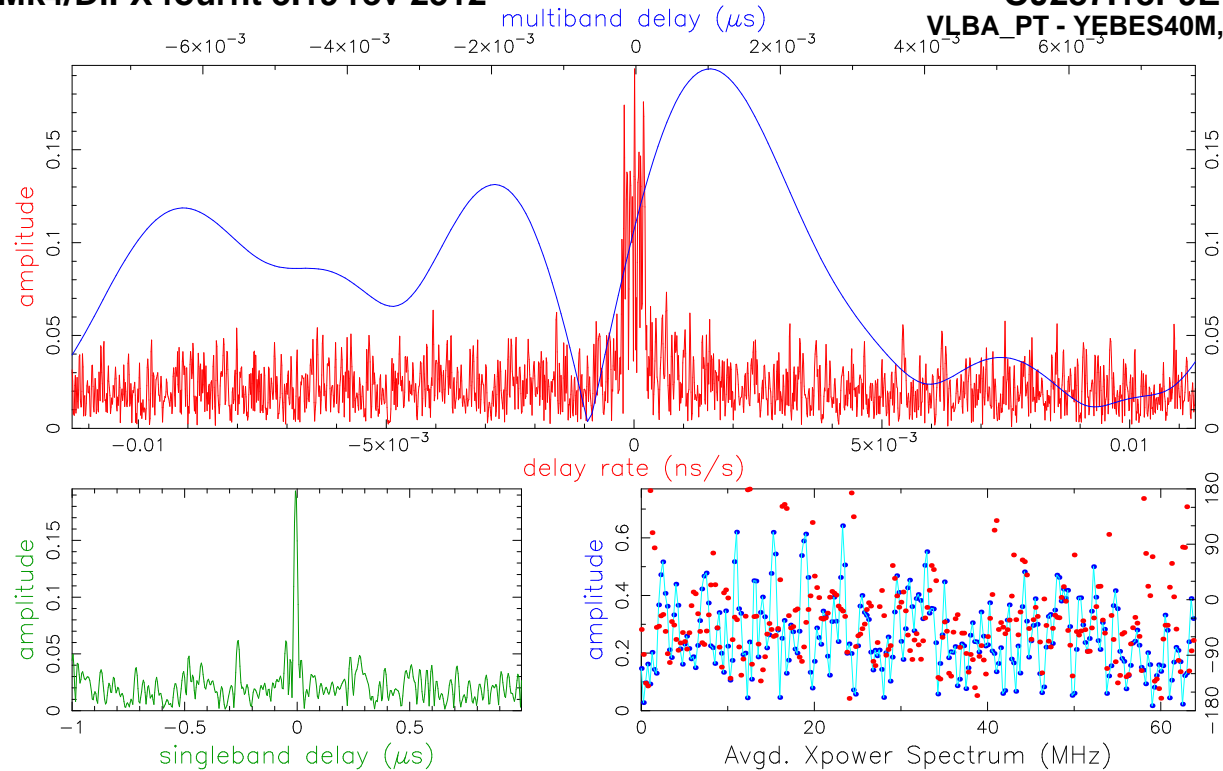
Fringe quality 9
SNR 10.2
Int time 433.177
Amp 0.179
Phase -51.6
PFD 1.3e-15
Delays (us)
SBD -0.000552
MBD -0.006917
Fringe rate (Hz)
-0.017285
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120834
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



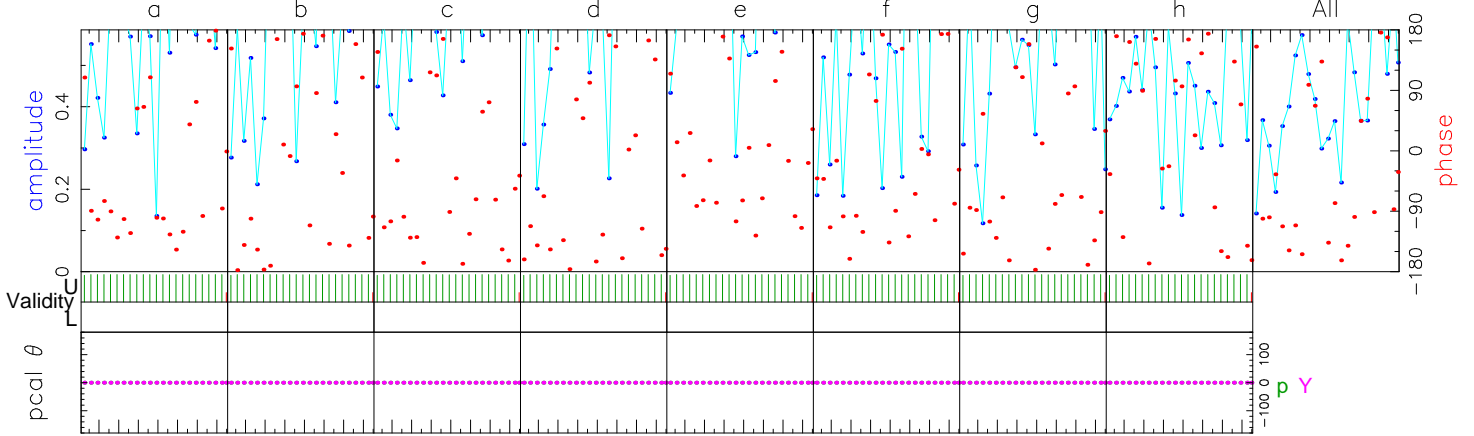
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.9	-101.6	-32.9	-67.8	28.5	-42.4	-45.4	-167.3	Phase	-51.6
	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	Ampl.	0.2
	333.7	256.7	256.7	257.1	256.1	256.4	255.8	254.4	Sbd box	256.9
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.80728678479E+03		Apriori delay (usec)		2.80729370199E+03		Resid mbdelay (usec)		-6.91721E-03	+/- 1.1E-04
Sband delay (usec)	2.80729315049E+03		Apriori clock (usec)		5.3017206E+00		Resid sbdelay (usec)		-5.51500E-04	+/- 8.5E-04
Phase delay (usec)	2.80729370033E+03		Apriori clockrate (us/s)		-1.6113413E-08		Resid phdelay (usec)		-1.66518E-06	+/- 3.6E-07
Delay rate (us/s)	1.82123948642E+00		Apriori rate (us/s)		1.82123968709E+00		Resid rate (us/s)		-2.00666E-07	+/- 1.4E-09
Total phase (deg)	124.7		Apriori accel (us/s/s)		-1.82266588636E-05		Resid phase (deg)		-51.6	+/- 11.3

RMS Theor. Amplitude 0.179 +/- 0.018
 ph/seg (deg) 73.1 27.0 Search (2048X32) 0.176 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 133.7 47.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 62.0 15.9 Inc. seg. avg. 0.308 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.6 27.8 Inc. frq. avg. 0.241 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 96.0 el 45.7 pa -60.9 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -11129.899 -1177.699 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/pY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/pY.W.179.18P9EC



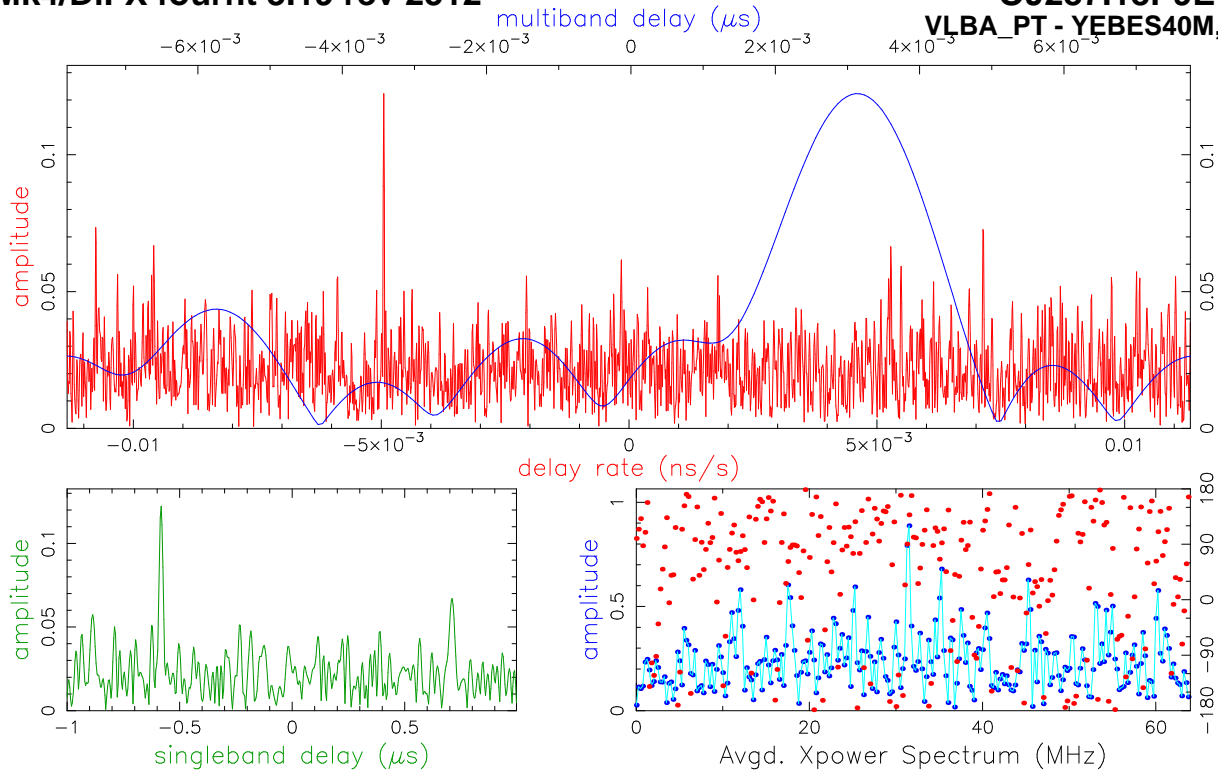
Fringe quality 9
SNR 11.1
Int time 433.178
Amp 0.195
Phase -133.4
PFD 4.5e-20
Delays (us)
SBD -0.006553
MBD 0.001037
Fringe rate (Hz) 0.001018
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224505.12
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120838
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



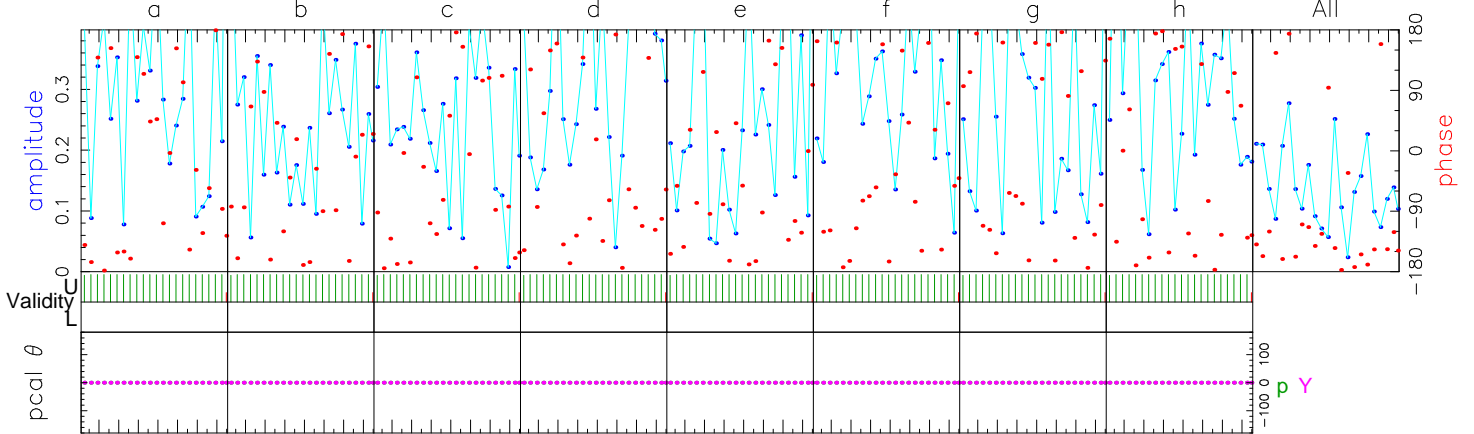
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.5	-169.0	-119.9	-178.3	-50.6	-104.2	-123.2	161.7	Phase	-133.4
	0.3	0.2	0.3	0.4	0.3	0.3	0.2	0.2	Ampl.	0.3
	255.1	254.4	254.8	255.4	255.5	254.9	253.8	255.4	Sbd box	255.3
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.80729473937E+03		Apriori delay (usec)		2.80729370199E+03		Resid mbdelay (usec)		1.03738E-03	+/- 9.8E-05
Sband delay (usec)	2.80728714949E+03		Apriori clock (usec)		5.3017206E+00		Resid sbdelay (usec)		-6.55250E-03	+/- 7.7E-04
Phase delay (usec)	2.80729369769E+03		Apriori clockrate (us/s)		-1.6113413E-08		Resid phdelay (usec)		-4.30048E-06	+/- 3.3E-07
Delay rate (us/s)	1.82123969891E+00		Apriori rate (us/s)		1.82123968709E+00		Resid rate (us/s)		1.18209E-08	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.82266588636E-05		Resid phase (deg)		-133.4	+/- 10.3

p: az 96.0 el 45.7 pa -60.9 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -11129.899 -1177.699 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/pY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/pY.W.195.18P9EC



Fringe quality 0
SNR 7.0
Int time 433.177
Amp 0.133
Phase -153.5
PFD 9.5e-04
Delays (us)
SBD -0.582489
MBD 0.003126
Fringe rate (Hz)
-0.427328
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
2020:197:120842
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

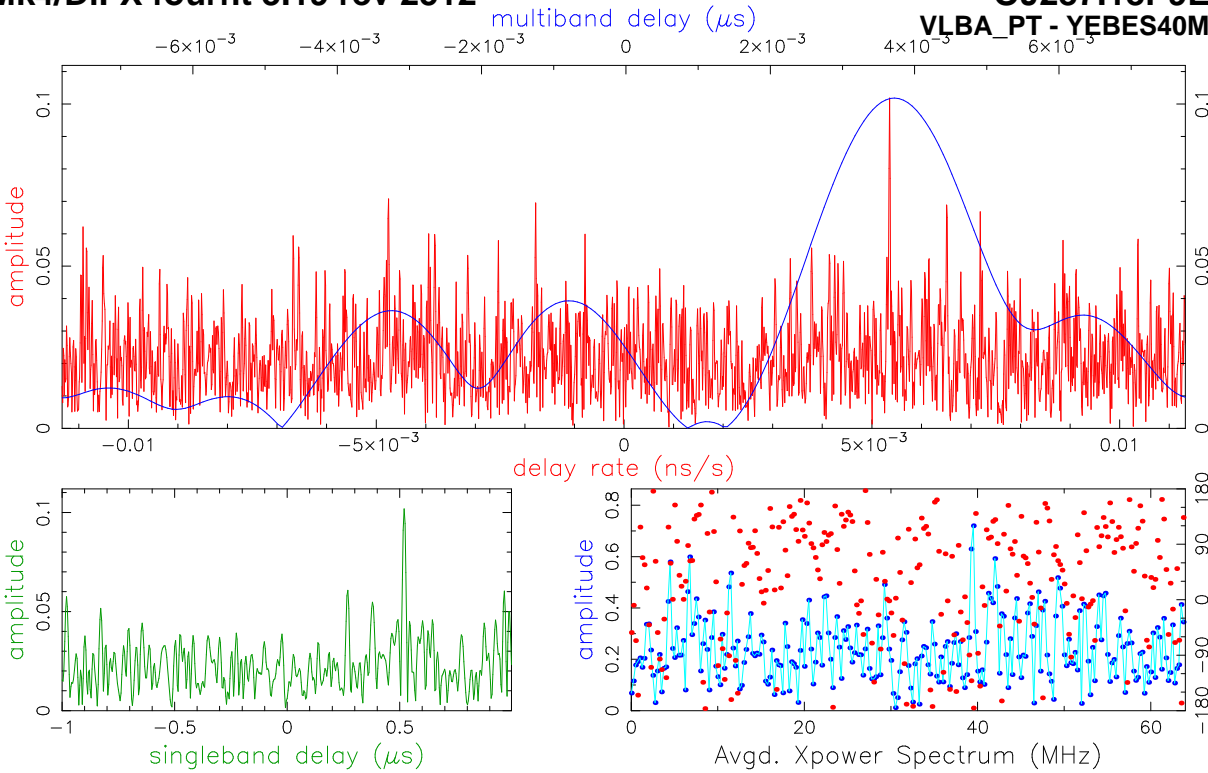
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-178.6	-127.2	-166.6	-138.1	-147.9	-147.7	-144.9	-172.8	Phase	-153.5
	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	Ampl.	0.1
	74.0	251.3	357.2	10.6	147.2	310.7	327.5	107.2	Sbd box	107.9
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.80671870345E+03		Apriori delay (usec)		2.80729370199E+03		Resid mbdelay (usec)		3.12645E-03	+/- 1.6E-04
Sband delay (usec)	2.80671121274E+03		Apriori clock (usec)		5.3017206E+00		Resid sbdelay (usec)		-5.82489E-01	+/- 1.2E-03
Phase delay (usec)	2.80729369704E+03		Apriori clockrate (us/s)		-1.6113413E-08		Resid phdelay (usec)		-4.95146E-06	+/- 5.3E-07
Delay rate (us/s)	1.82123472623E+00		Apriori rate (us/s)		1.82123968709E+00		Resid rate (us/s)		-4.96086E-06	+/- 2.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.82266588636E-05		Resid phase (deg)		-153.5	+/- 16.4

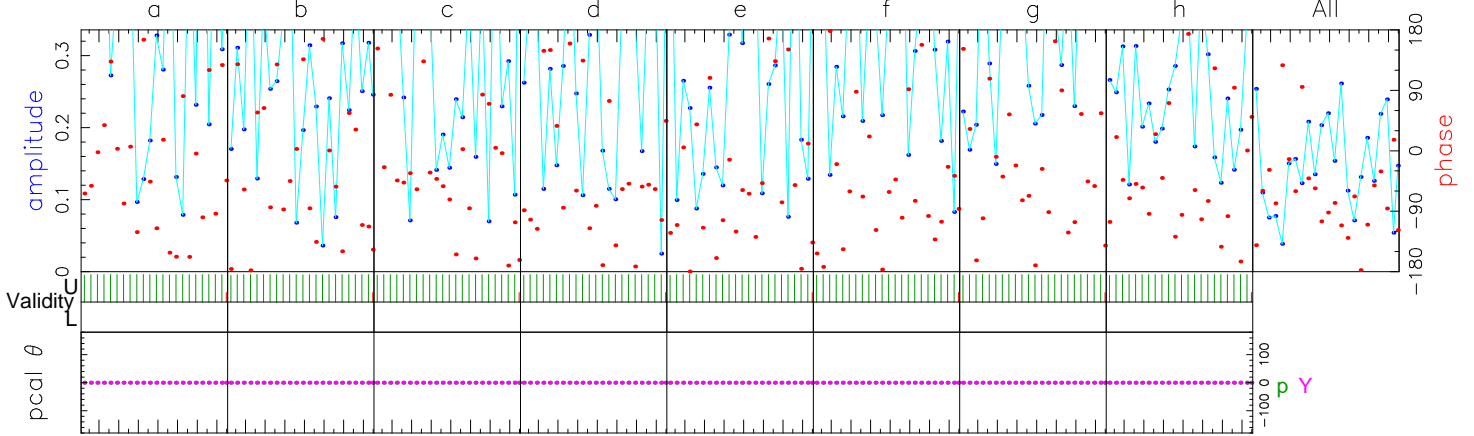
RMS Theor. Amplitude 0.133 +/- 0.019
 ph/seg (deg) 43.7 39.4 Search (2048X32) 0.119
 amp/seg (%) 54.9 68.8 Interp. 0.000
 ph/frq (deg) 19.3 23.3 Inc. seg. avg. 0.122
 amp/frq (%) 27.6 40.6 Inc. frq. avg. 0.128
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb 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

p: az 96.0 el 45.7 pa -60.9 Y: az 265.0 el 37.4 pa 53.7 u,v (fr/asec) -11129.899 -1177.699 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/pY..18P9EC Output file: /Exps/c201a/v1/1234/No0027/pY.W.214.18P9EC



Fringe quality 0
SNR 5.8
Int time 433.178
Amp 0.112
Phase -81.8
PFD 8.1e-01
Delays (us)
SBD 0.519925
MBD 0.003735
Fringe rate (Hz) 0.461804
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
2020:197:120846
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

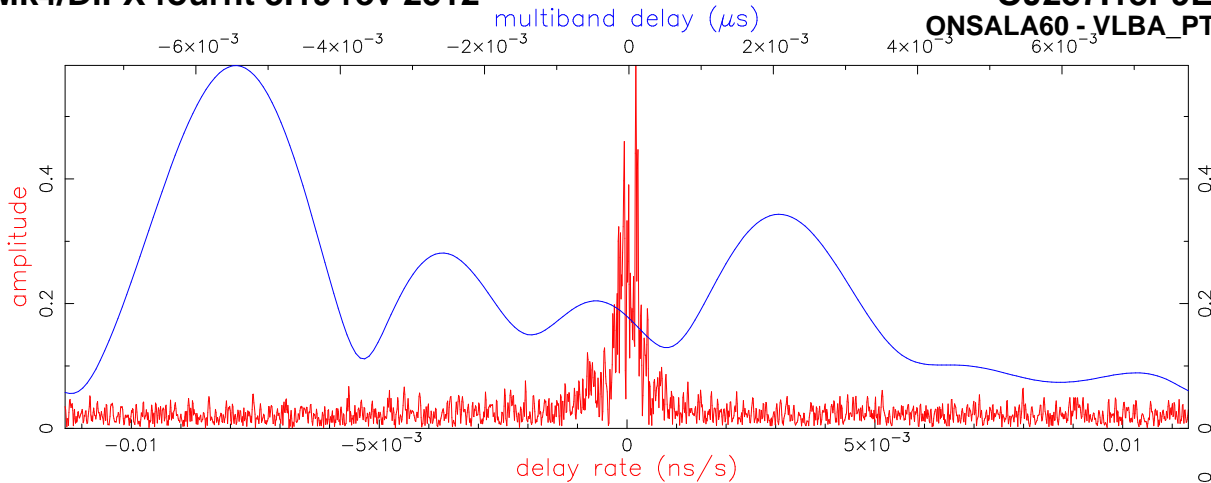
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.1	-109.7	-34.2	-95.9	-98.3	-99.4	-55.6	-73.6	Phase	-81.8
	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	Ampl.	0.1
	42.6	417.1	151.0	147.9	396.3	439.5	504.1	104.6	Sbd box	390.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

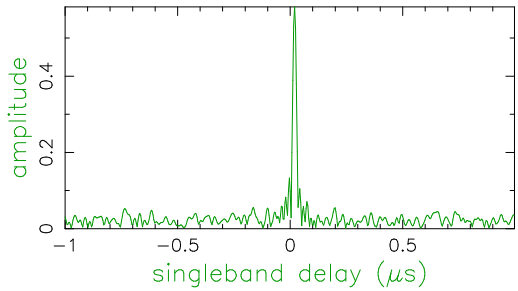
Group delay (usec)(sbd)	2.80781306189E+03	Apriori delay (usec)	2.80729370199E+03	Resid mbdelay (usec)	3.73490E-03	+/-	1.9E-04
Sband delay (usec)	2.80781362674E+03	Apriori clock (usec)	5.3017206E+00	Resid sbdelay (usec)	5.19925E-01	+/-	1.5E-03
Phase delay (usec)	2.80729369936E+03	Apriori clockrate (us/s)	-1.6113413E-08	Resid phdelay (usec)	-2.63739E-06	+/-	6.4E-07
Delay rate (us/s)	1.82124504818E+00	Apriori rate (us/s)	1.82123968709E+00	Resid rate (us/s)	5.36109E-06	+/-	2.5E-09
Total phase (deg)	94.6	Apriori accel (us/s/s)	-1.82266588636E-05	Resid phase (deg)	-81.8	+/-	19.8

ph/seg (deg)	65.6	Theor.	47.4	Amplitude	0.112 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	78.7		82.7	Search (2048X32)	0.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	28.2		27.9	Inc. seg. avg.	0.123	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	34.2		48.8	Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00
p: az 96.0 el 45.7 pa -60.9	Y: az 265.0 el 37.4 pa 53.7		u,v (fr/asec)		-11129.899 -1177.699	simultaneous interpolator				

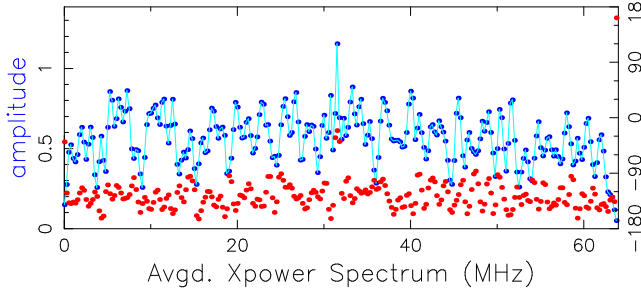


Fringe quality 4

SNR 33.3
Int time 438.607
Amp 0.582
Phase 159.2
PFD 0.0e+00
Delays (us)
SBD 0.019388
MBD -0.005451
Fringe rate (Hz)
0.015040
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

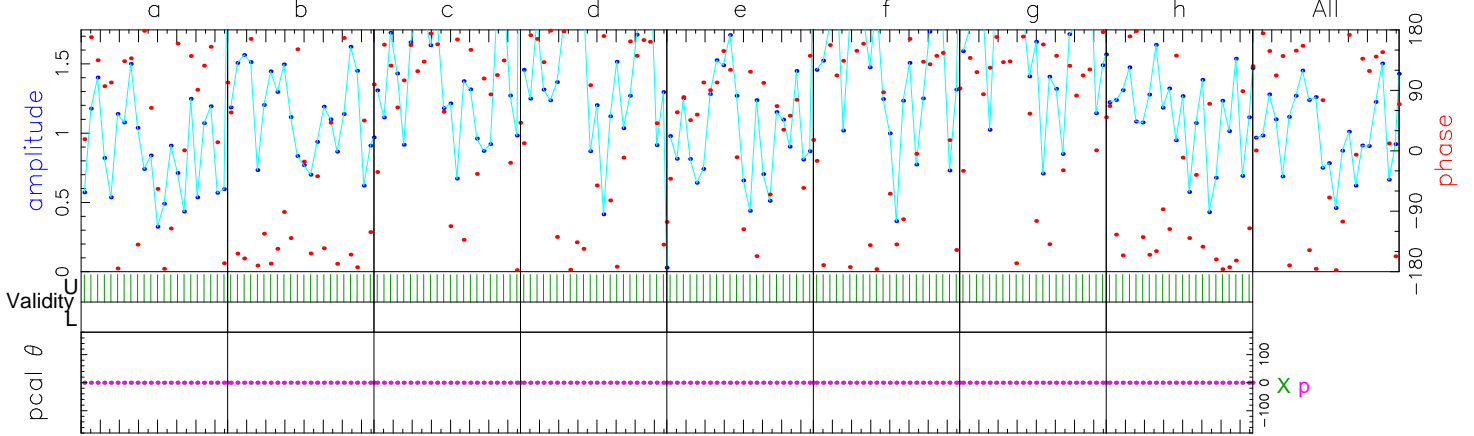


delay rate (ns/s)



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
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

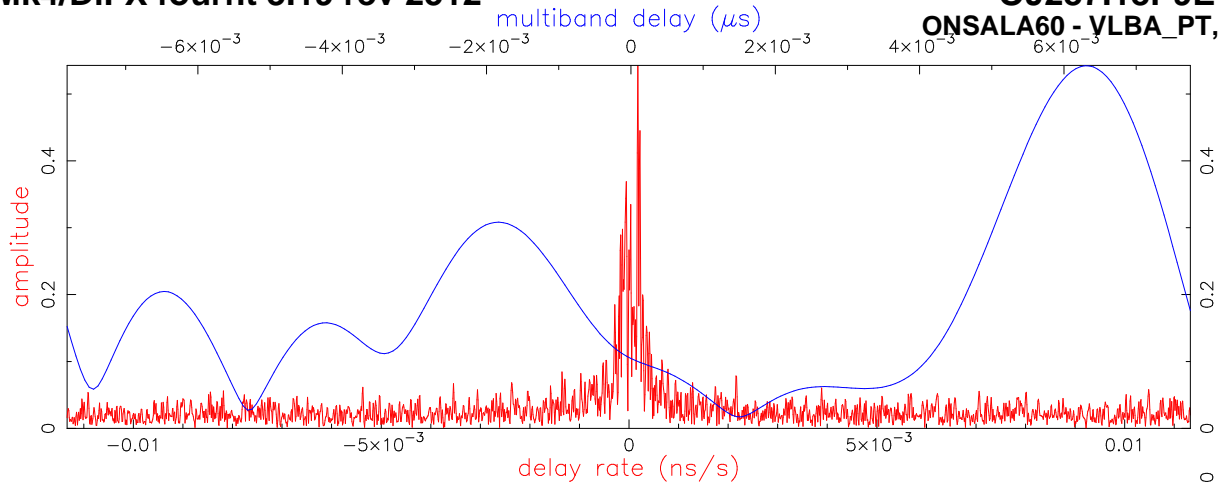
Group delay (usec)(sbd)	-6.26374789932E+03	Apriori delay (usec)	-6.26377369859E+03	Resid mbdelay (usec)	-5.45073E-03	+/-	3.3E-05
Sband delay (usec)	-6.26375431059E+03	Apriori clock (usec)	2.3448614E+01	Resid sbdelay (usec)	1.93880E-02	+/-	2.6E-04
Phase delay (usec)	-6.26377369346E+03	Apriori clockrate (us/s)	3.2411343E-07	Resid phdelay (usec)	5.13509E-06	+/-	1.1E-07
Delay rate (us/s)	-1.62993699867E+00	Apriori rate (us/s)	-1.62993717327E+00	Resid rate (us/s)	1.74603E-07	+/-	4.4E-10
Total phase (deg)	16.5	Apriori accel (us/s/s)	4.42126294916E-05	Resid phase (deg)	159.2	+/-	3.4

ph/seg (deg)	74.0	RMS	74.0	Theor.	8.2	Amplitude	0.582 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	85.5	Search (2048X32)	0.567	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	
ph/frq (deg)	45.7	Inc. seg. avg.	0.990	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
amp/frq (%)	34.3	Inc. frq. avg.	0.712										

X: az 266.5 el 26.2 pa 35.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10004.613 3533.920 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Xp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Xp.W.197.18P9EC

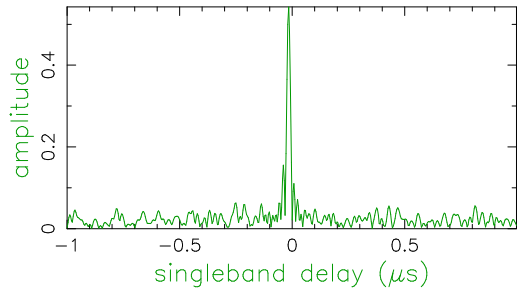
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Xp
ONSALA60 - VLBA_PT, fgroup W, pol RR

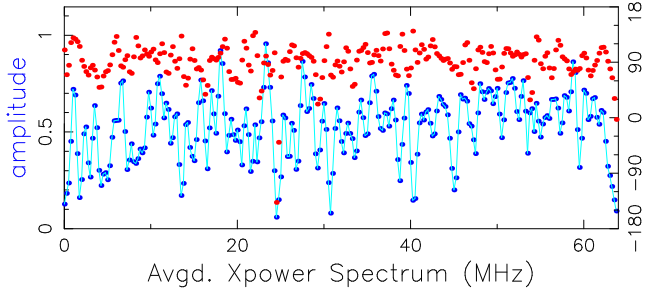


Fringe quality 4

SNR 31.1
Int time 438.608
Amp 0.543
Phase -163.4
PFD 0.0e+00
Delays (us)
SBD -0.015990
MBD 0.006300
Fringe rate (Hz)
0.015005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

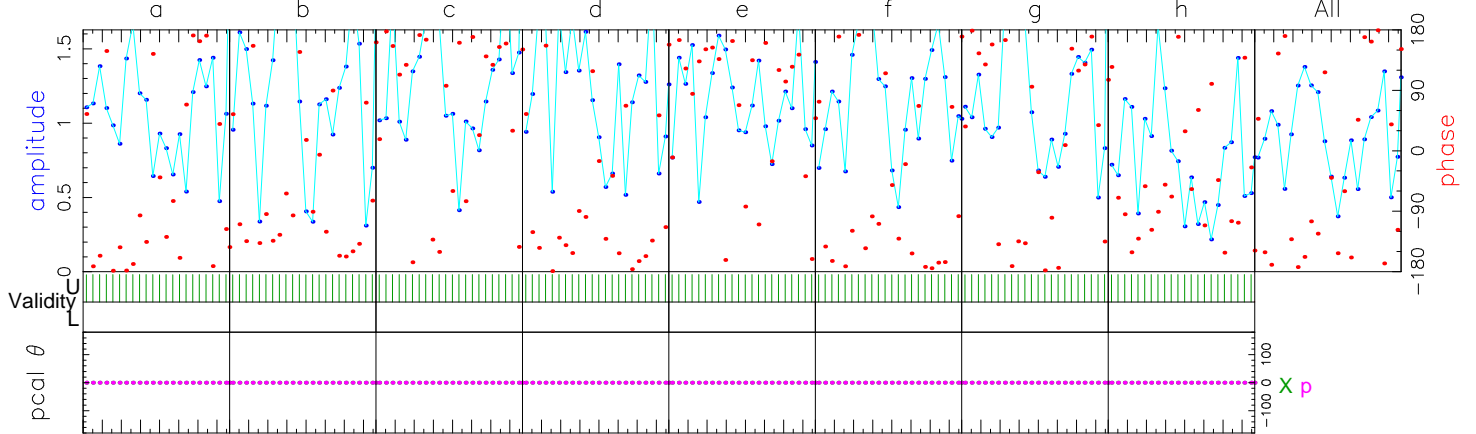


delay rate (ns/s)



Exp. c201a
Exper # 16383
Yr:day 2020:115
Start 224500.00
Stop 225219.80
FRT 224840.00
Corr/FF/build
2020:195:224837
2020:197:120843
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

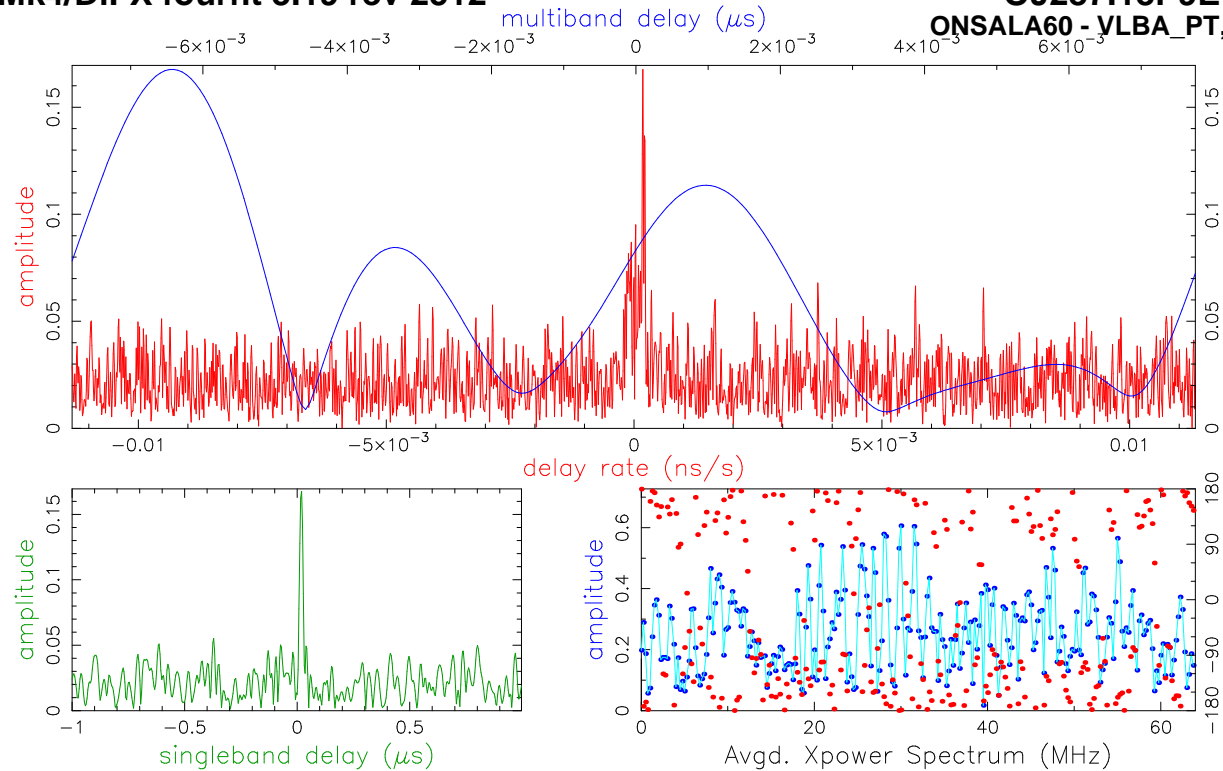
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-166.1	-126.7	166.0	-143.9	144.5	-155.1	168.8	-97.8	Phase	-163.4
	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.5	Ampl.	0.6
	253.2	252.9	253.0	253.6	253.8	253.2	253.9	254.9	Sbd box	252.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.26378302392E+03		Apriori delay (usec)		-6.26377369859E+03		Resid mbdelay (usec)		6.29968E-03	+/- 3.5E-05
Sband delay (usec)	-6.26378968834E+03		Apriori clock (usec)		2.3448614E+01		Resid sbdelay (usec)		-1.59898E-02	+/- 2.8E-04
Phase delay (usec)	-6.26377370386E+03		Apriori clockrate (us/s)		3.2411343E-07		Resid phdelay (usec)		-5.27062E-06	+/- 1.2E-07
Delay rate (us/s)	-1.62993699908E+00		Apriori rate (us/s)		-1.62993717327E+00		Resid rate (us/s)		1.74190E-07	+/- 4.7E-10
Total phase (deg)			Apriori accel (us/s/s)		4.42126294916E-05		Resid phase (deg)		-163.4	+/- 3.7

	RMS	Theor.	Amplitude	0.543 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	72.6	8.8	Search (2048X32)	0.529	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	84.4	15.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	41.9	5.2	Inc. seg. avg.	0.895	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	24.6	9.1	Inc. frq. avg.	0.648	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
X: az 266.5 el 26.2 pa 35.0	p: az 96.0 el 45.7 pa -60.9		u,v (fr/asec) 10004.613 3533.920		simultaneous interpolator	

Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Xp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Xp.W.216.18P9EC

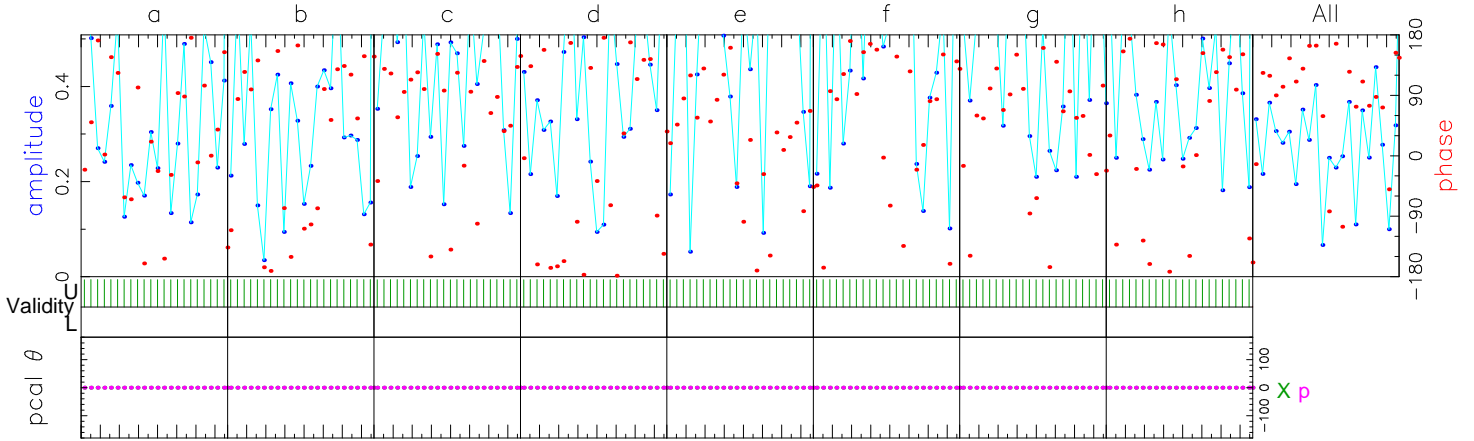


Fringe quality 9

SNR 9.7
Int time 438.608
Amp 0.170
Phase 119.7
PFD 1.1e-13
Delays (us)
SBD 0.018217
MBD -0.006460
Fringe rate (Hz)
0.015363
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
2020:197:120847
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

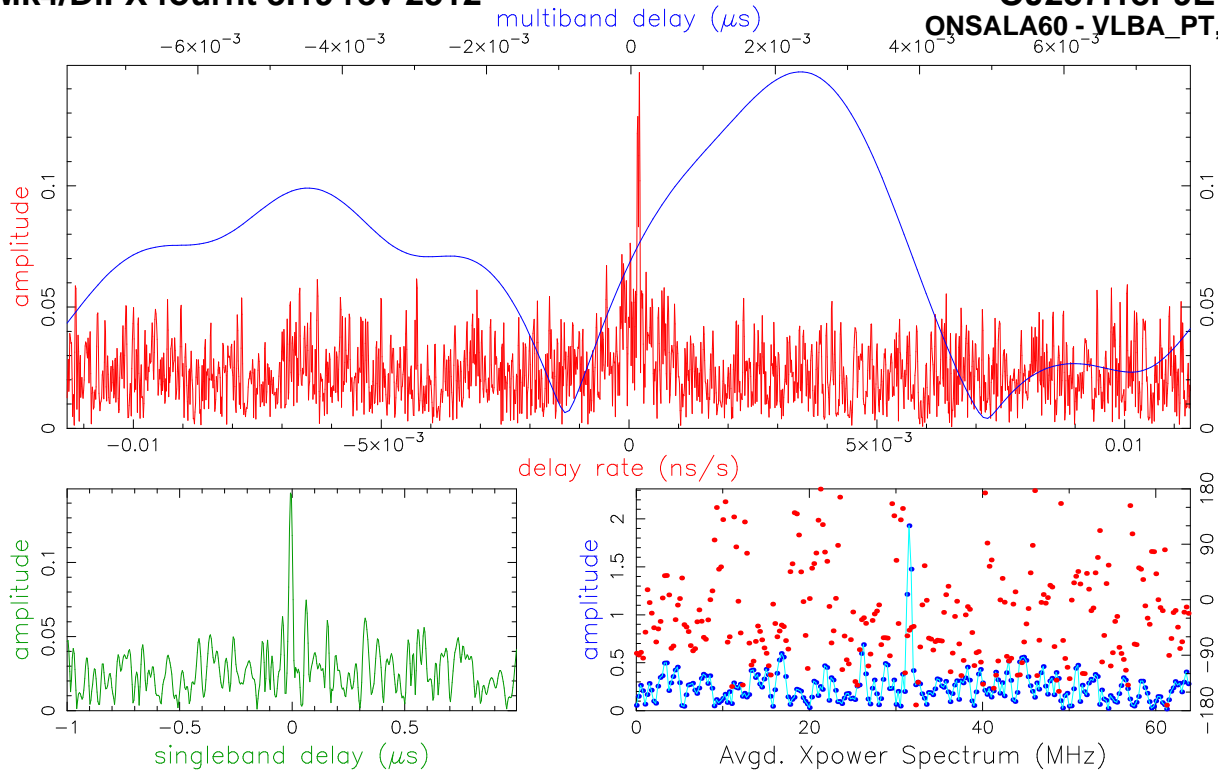
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	76.6	136.8	109.2	-177.2	62.6	141.8	85.7	147.4	Phase	119.7
	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.2	Ampl.	0.2
	363.2	262.5	261.9	261.7	261.7	262.2	262.0	261.8	Sbd box	261.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.26374890813E+03		Apriori delay (usec)		-6.26377369859E+03		Resid mbdelay (usec)		-6.45954E-03	+/- 1.1E-04
Sband delay (usec)	-6.26375548159E+03		Apriori clock (usec)		2.3448614E+01		Resid sbdelay (usec)		1.82170E-02	+/- 8.9E-04
Phase delay (usec)	-6.26377369473E+03		Apriori clockrate (us/s)		3.2411343E-07		Resid phdelay (usec)		3.85880E-06	+/- 3.8E-07
Delay rate (us/s)	-1.62993699493E+00		Apriori rate (us/s)		-1.62993717327E+00		Resid rate (us/s)		1.78347E-07	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.42126294916E-05		Resid phase (deg)		119.7	+/- 11.8

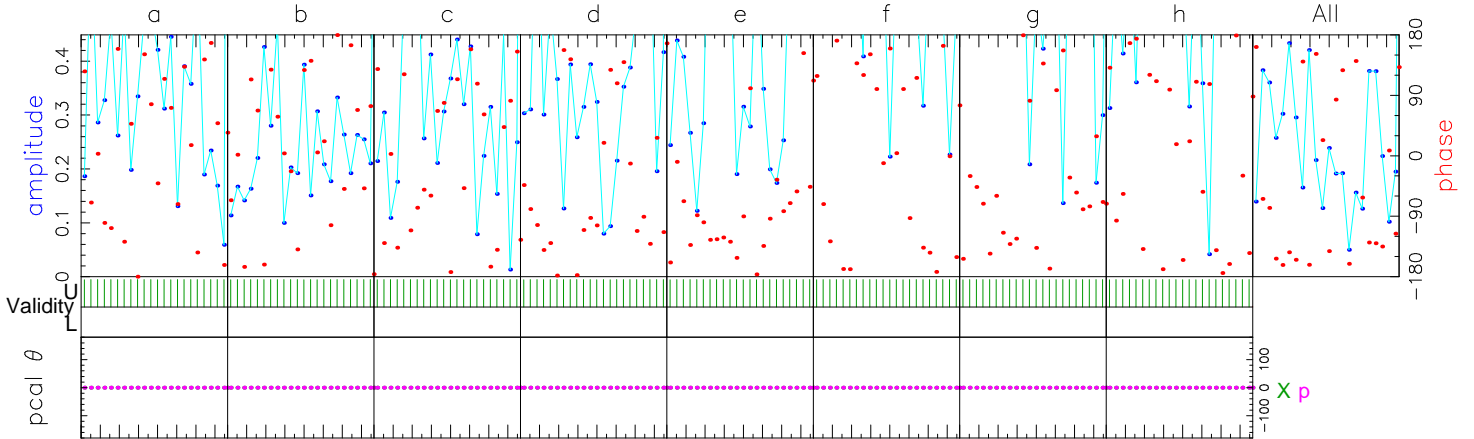
ph/seg (deg) RMS Theor. Amplitude 0.170 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.6 28.3 Search (2048X32) 0.165 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 83.9 49.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.6 16.7 Inc. seg. avg. 0.246 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 42.6 29.1 Inc. frq. avg. 0.201 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 266.5 el 26.2 pa 35.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10004.613 3533.920 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Xp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Xp.W.232.18P9EC



Fringe quality 9
SNR 8.6
Int time 438.607
Amp 0.150
Phase -145.3
PFD 3.8e-09
Delays (us)
SBD -0.006037
MBD 0.002439
Fringe rate (Hz) 0.018323
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
2020:197:120850
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



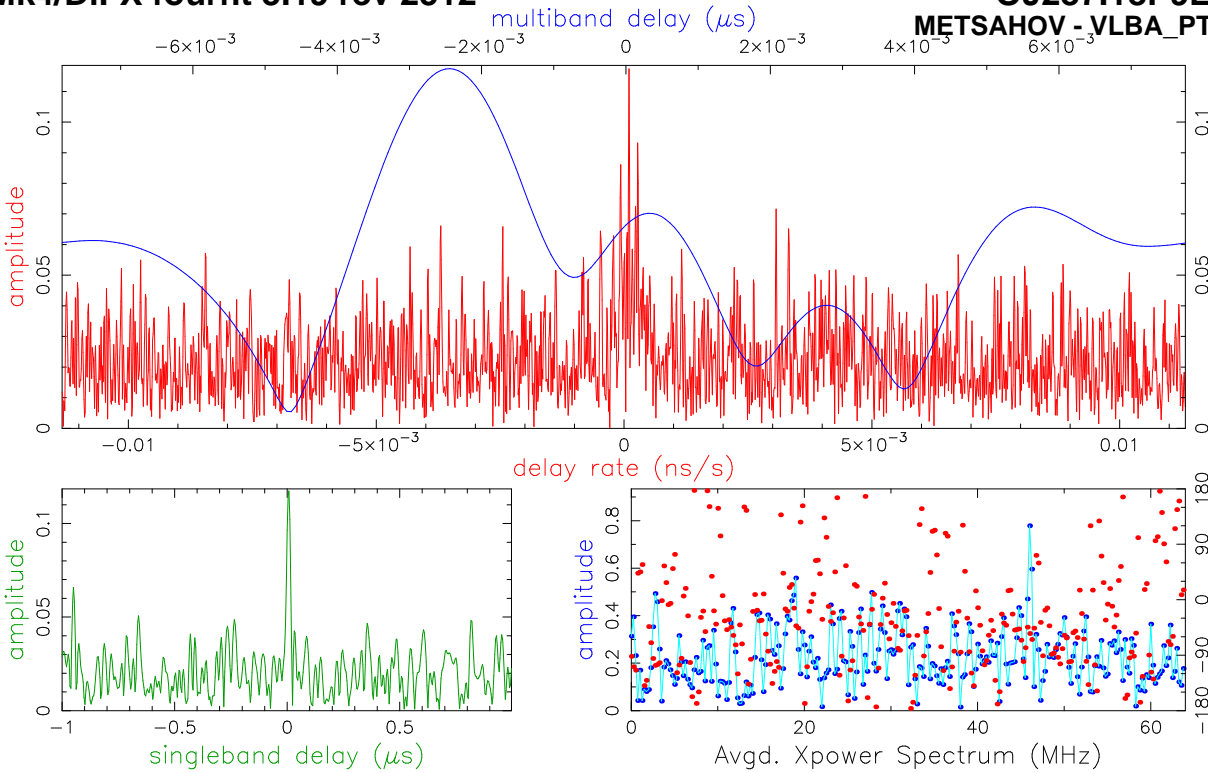
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.4	91.8	-172.3	-121.0	-108.2	177.0	-95.8	-179.2	Phase	-145.3
	0.1	0.0	0.1	0.2	0.3	0.3	0.3	0.3	Ampl.	0.2
	298.1	506.6	357.0	254.1	255.1	254.0	254.7	254.8	Sbd box	255.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.26378688471E+03		Apriori delay (usec)		-6.26377369859E+03		Resid mbdelay (usec)		2.43888E-03	+/- 1.3E-04
Sband delay (usec)	-6.26377973534E+03		Apriori clock (usec)		2.3448614E+01		Resid sbdelay (usec)		-6.03675E-03	+/- 1.0E-03
Phase delay (usec)	-6.26377370328E+03		Apriori clockrate (us/s)		3.2411343E-07		Resid phdelay (usec)		-4.68573E-06	+/- 4.3E-07
Delay rate (us/s)	-1.62993696056E+00		Apriori rate (us/s)		-1.62993717327E+00		Resid rate (us/s)		2.12708E-07	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.42126294916E-05		Resid phase (deg)		-145.3	+/- 13.4

	RMS	Theor.	Amplitude	0.150 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	72.4	32.1	Search (2048X32)	0.144	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	97.4	56.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	63.3	18.9	Inc. seg. avg.	0.211	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	83.0	33.0	Inc. frq. avg.	0.184	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 256	t_cohere infinite

X: az 266.5 el 26.2 pa 35.0 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 10004.613 3533.920 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Xp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Xp.W.245.18P9EC

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Zp
 METSAHOV - VLBA_PT, fgroup W, pol LL

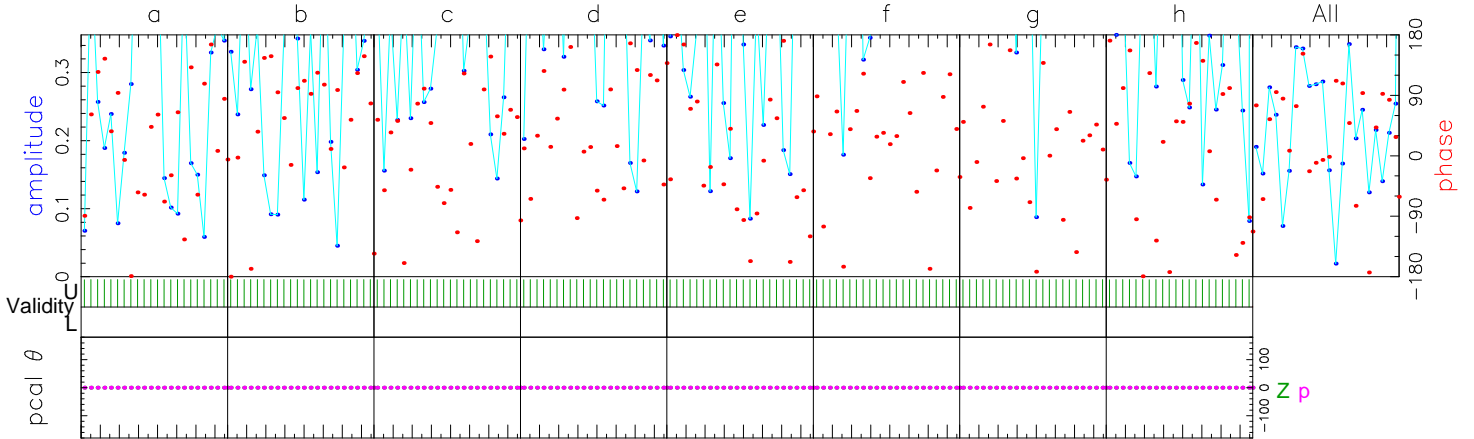


Fringe quality 0

SNR 6.8
 Int time 438.223
 Amp 0.119
 Phase 49.0
 PFD 3.4e-03
 Delays (us)
 SBD 0.006444
 MBD -0.002488
 Fringe rate (Hz)
 0.009064
 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
 2020:197:120849
 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

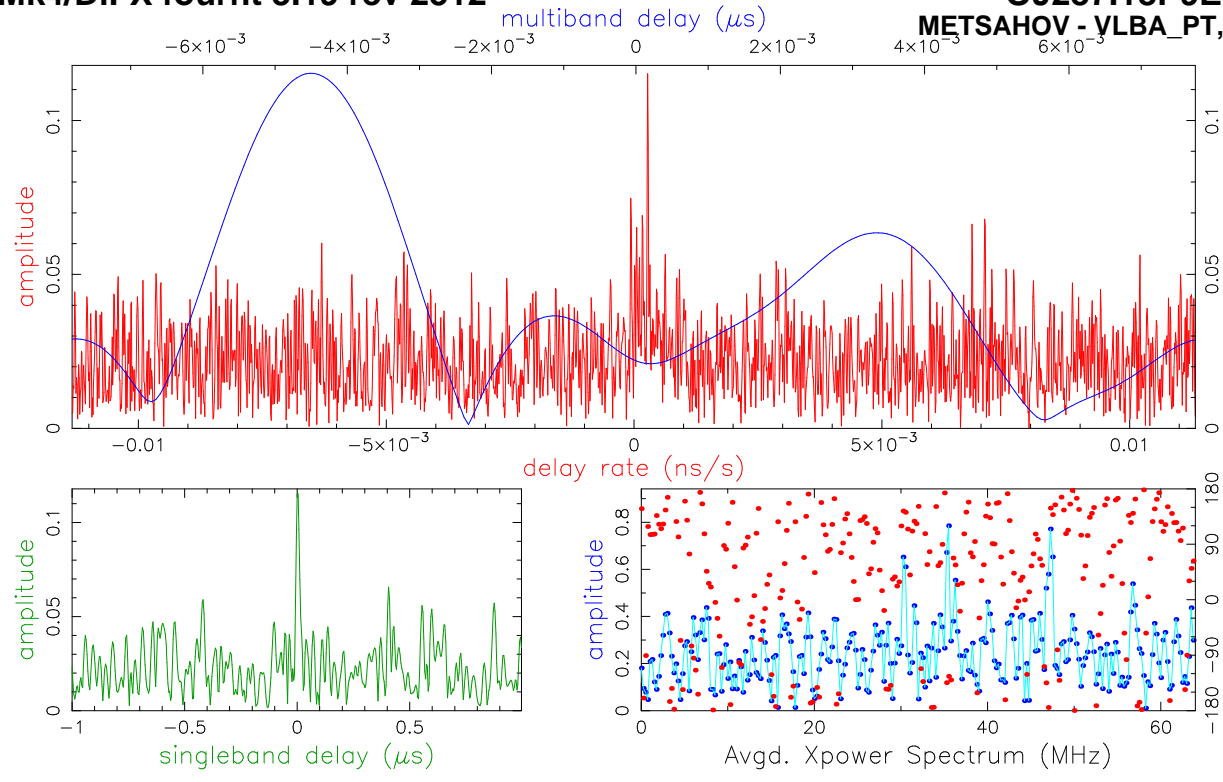


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-8.48457459277E+03				-8.48458773023E+03				-2.48755E-03	+/- 1.6E-04
Sband delay (usec)	-8.48458128673E+03				-1.7377253E+01				6.44350E-03	+/- 1.3E-03
Phase delay (usec)	-8.48458772864E+03				-1.8788659E-07				1.58050E-06	+/- 5.4E-07
Delay rate (us/s)	-1.59905690575E+00				-1.59905701097E+00				1.05220E-07	+/- 2.1E-09
Total phase (deg)			19.6		5.67936607520E-05				49.0	+/- 16.9

ph/seg (deg) 64.5 40.5 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.0 70.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 59.4 23.9 Inc. seg. avg. 0.171 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 70.2 41.7 Inc. frq. avg. 0.144 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 275.9 el 19.8 pa 31.7 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 9836.948 4108.342 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Zp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Zp.W.240.18P9EC

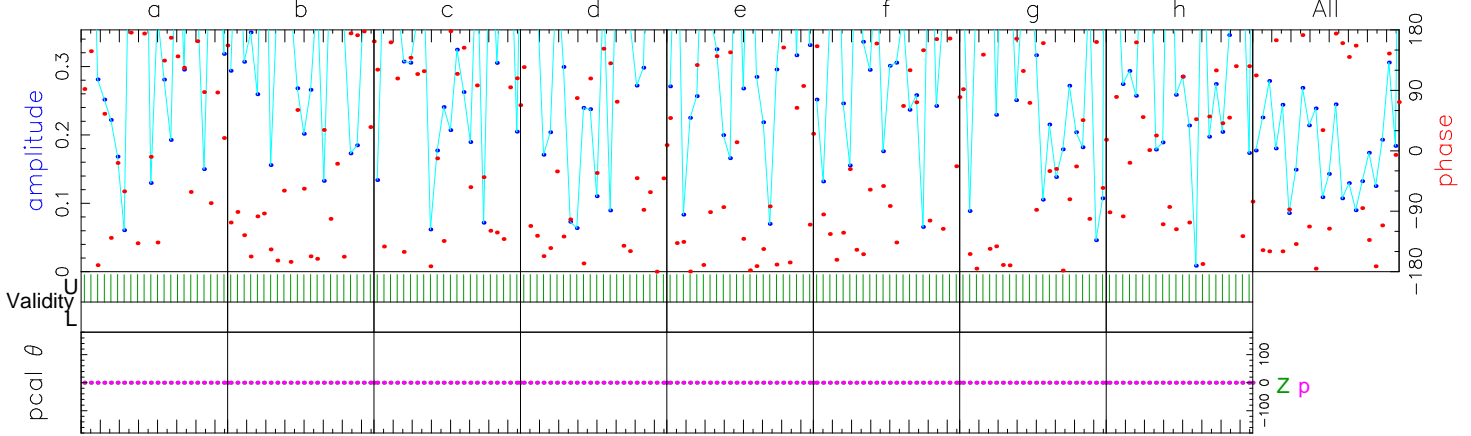
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Zp
 METSAHOV - VLBA_PT, fgroup W, pol RR



Fringe quality 0
 SNR 6.7
 Int time 438.224
 Amp 0.118
 Phase -163.6
 PFD 4.4e-03
 Delays (us)
 SBD 0.001977
 MBD -0.004562
 Fringe rate (Hz)
 0.024136
 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
 2020:197:120852
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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

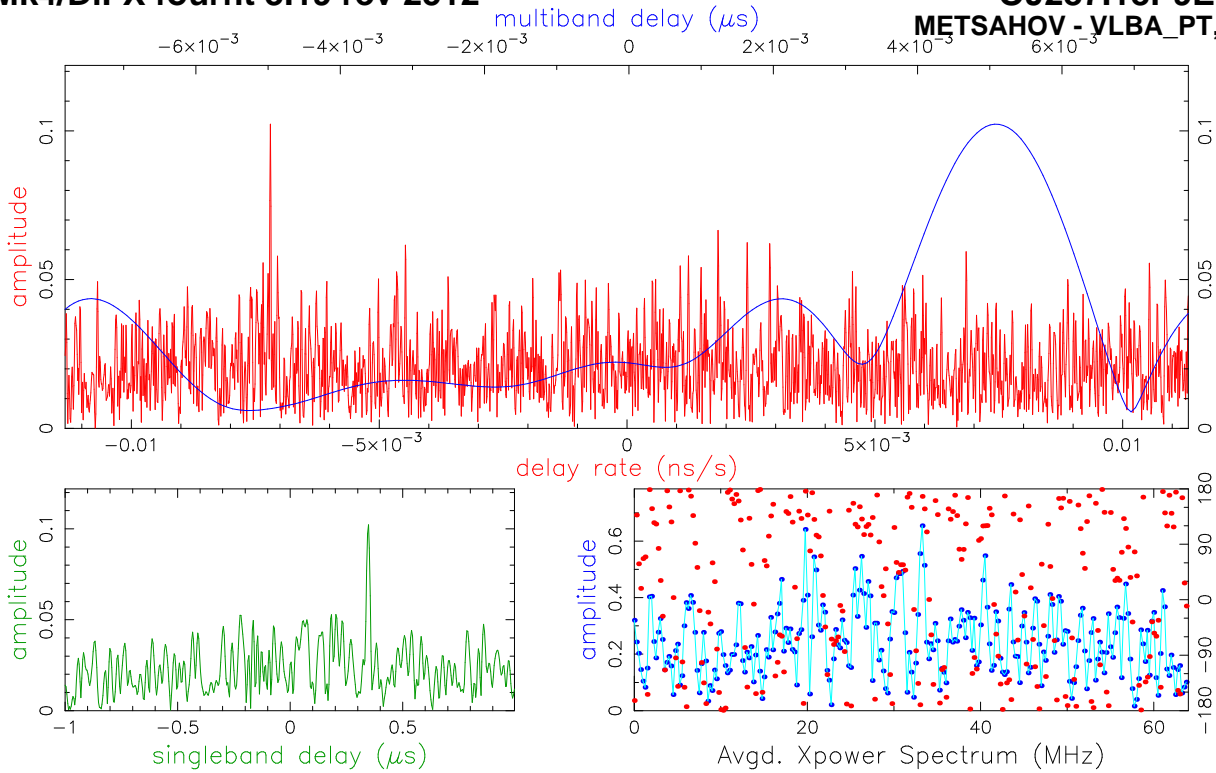


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	167.6	-119.8	159.2	-130.0	-176.9	-141.8	-172.2	97.9	Phase	-163.6
	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.0	Ampl.	0.1
	258.9	256.9	412.4	485.8	259.9	424.5	232.3	474.5	Sbd box	257.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.48459229194E+03		Apriori delay (usec)		-8.48458773023E+03		Resid mbdelay (usec)		-4.56171E-03	+/- 1.6E-04
Sband delay (usec)	-8.48458575323E+03		Apriori clock (usec)		-1.7377253E+01		Resid sbdelay (usec)		1.97700E-03	+/- 1.3E-03
Phase delay (usec)	-8.48458773550E+03		Apriori clockrate (us/s)		-1.8788659E-07		Resid phdelay (usec)		-5.27617E-06	+/- 5.5E-07
Delay rate (us/s)	-1.59905673077E+00		Apriori rate (us/s)		-1.59905701097E+00		Resid rate (us/s)		2.80194E-07	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		5.67936607520E-05		Resid phase (deg)		-163.6	+/- 17.0

ph/seg (deg) 64.9 40.7 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.3 71.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.1 24.0 Inc. seg. avg. 0.146 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.9 41.9 Inc. frq. avg. 0.123 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 275.9 el 19.8 pa 31.7 p: az 96.0 el 45.7 pa -60.9 u,v (fr/asec) 9836.948 4108.342 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201a/v1/1234/No0027/Zp..18P9EC Output file: /Exps/c201a/v1/1234/No0027/Zp.W.249.18P9EC

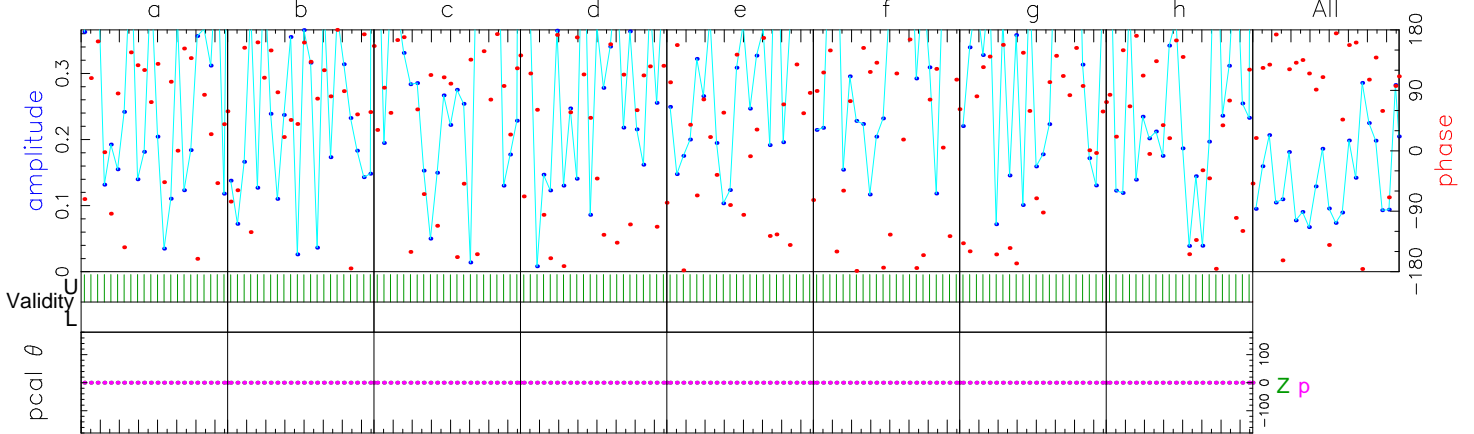
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.18P9EC, No0027, Zp
 METSAHOV - VLBA_PT, fgroup W, pol LR



Fringe quality 0
 SNR 5.9
 Int time 438.224
 Amp 0.122
 Phase 131.4
 PFD 6.5e-01
 Delays (us)
 SBD 0.346774
 MBD 0.005079
 Fringe rate (Hz)
 -0.620734
 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
 2020:197:120855
 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
110.3	127.0	131.1	165.2	106.6	148.0	125.2	111.4	111.4	Phase	131.4
0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.1	0.1	Ampl.	0.1
445.1	325.0	357.8	406.1	390.3	101.9	346.3	223.8	223.8	Sbd box	345.8
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.48423890125E+03		Apriori delay (usec)	-8.48458773023E+03		Resid mbdelay (usec)	5.07898E-03	+/-	1.8E-04	
Sband delay (usec)	-8.48424095573E+03		Apriori clock (usec)	-1.7377253E+01		Resid sbdelay (usec)	3.46774E-01	+/-	1.5E-03	
Phase delay (usec)	-8.48458772599E+03		Apriori clockrate (us/s)	-1.8788659E-07		Resid phdelay (usec)	4.23667E-06	+/-	6.3E-07	
Delay rate (us/s)	-1.59906421708E+00		Apriori rate (us/s)	-1.59905701097E+00		Resid rate (us/s)	-7.20611E-06	+/-	2.5E-09	
Total phase (deg)		102.0	Apriori accel (us/s/s)	5.67936607520E-05		Resid phase (deg)	131.4	+/-	19.5	
	RMS	Theor.	Amplitude	0.122 +/- 0.021		Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	58.3	46.7	Search (2048X32)	0.100		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	75.4	81.6	Interp.	0.000		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	22.1	27.6	Inc. seg. avg.	0.129		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.9	48.1	Inc. frq. avg.	0.114		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00
Z: az 275.9 el 19.8 pa 31.7			p: az 96.0 el 45.7 pa -60.9			u,v (fr/asec) 9836.948 4108.342				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c201a/v1/1234/No0027/Zp..18P9EC			Output file: /Exps/c201a/v1/1234/No0027/Zp.W.255.18P9EC				

